Kia, THE COMPANY

Thank you for becoming the owner of a 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.

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

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

Drive safely and enjoy your Kia!

Foreword

Thank you for choosing a Kia vehicle.

When you require service, remember that your Kia dealer knows your vehicle best. Your dealer has factory-trained technicians, recommended special tools and genuine Kia replacement parts. It is dedicated to your complete customer satisfaction.

Because subsequent owners require this important information as well, this publication should remain with the vehicle if it is sold.

This manual will familiarize you with operational, maintenance and safety information about your new vehicle. It is supplemented by a Warranty and Consumer Information manual that provides important information on all warranties regarding your vehicle.

We urge you to read these publications carefully and follow the recommendations to help assure enjoyable and safe operation of your new vehicle.

Kia offers a great variety of options, components and features for its various models. Therefore, some of the equipment described in this manual, along with the various illustrations, may not be applicable to your particular vehicle.

The information and specifications provided in this manual were accurate at the time of printing. Kia reserves the right to discontinue or change specifications or design at any time without notice and without incurring any obligation. If you have questions, always check with your Kia dealer.

We assure you of our continuing interest in your motoring pleasure and satisfaction in your Kia vehicle.

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Printed in Korea

How To Use This Manual

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

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

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

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

You will find various types of safety instructions in this manual. These instructions were prepared to enhance your personal safety.

Carefully read and follow ALL procedures and recommendations provided in these instructions.

⚠ WARNING

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

⚠ 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

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1

VEHICLE DATA COLLECTION AND EVENT DATA RECORDERS

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

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

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

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

Your vehicle at a glance

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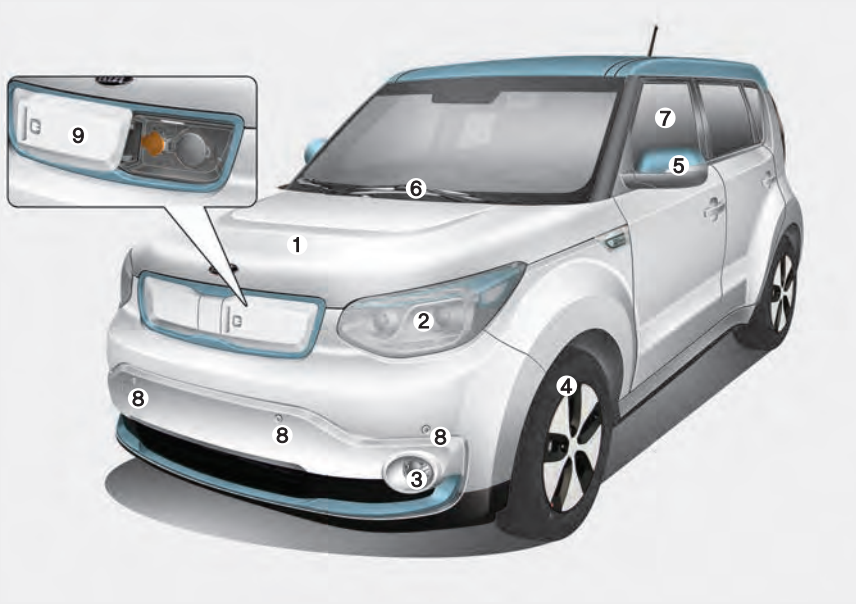
EXTERIOR OVERVIEW

■ Front view



❊ The actual shape may differ from the illustration.

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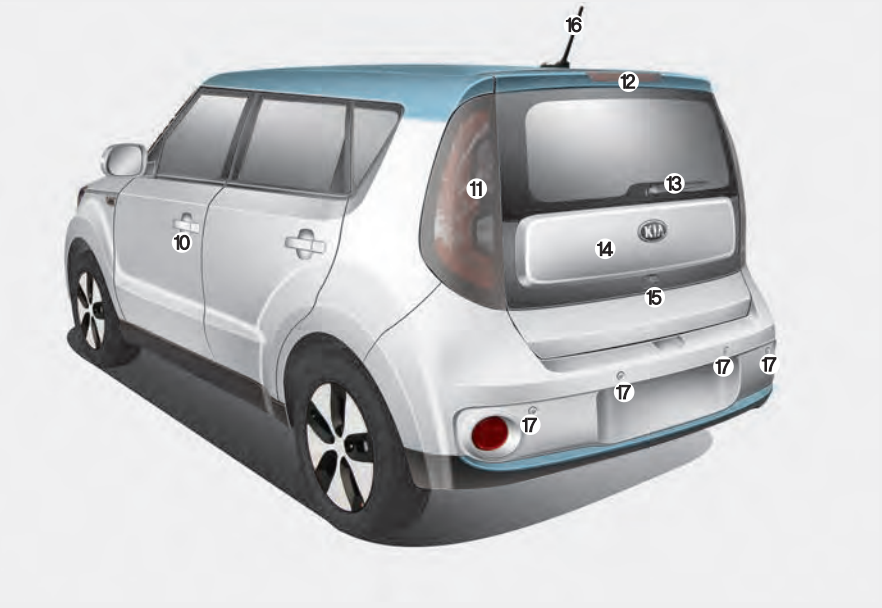
■ Rear view



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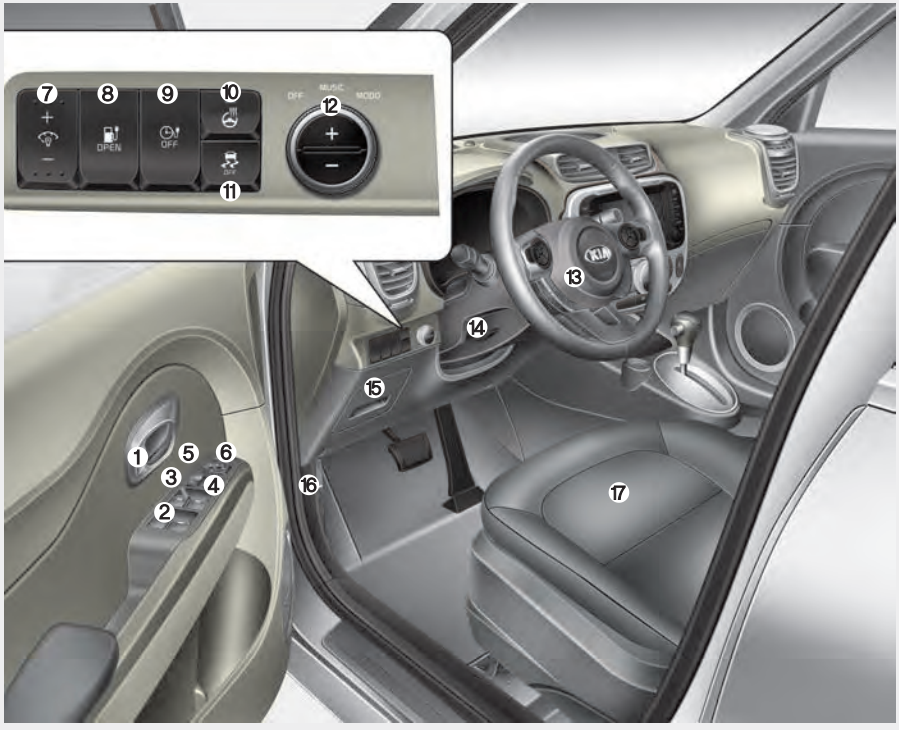
INTERIOR OVERVIEW



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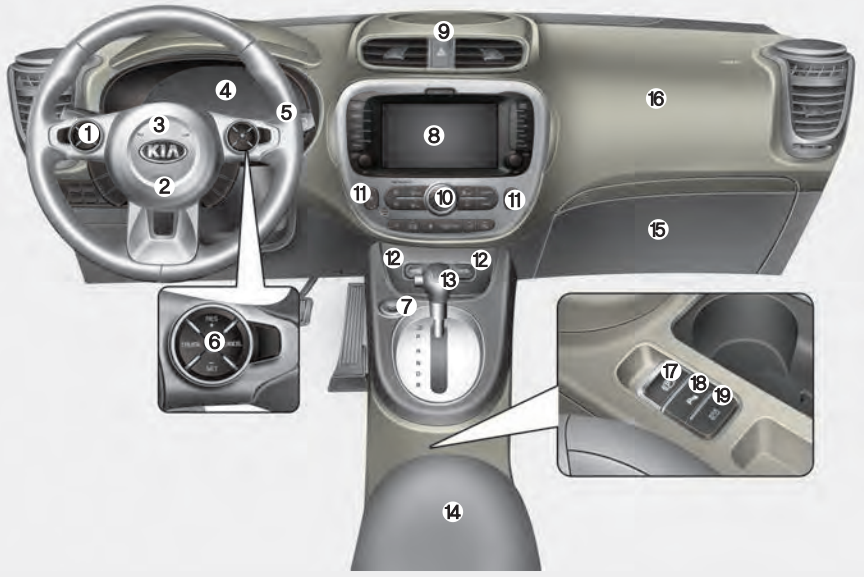

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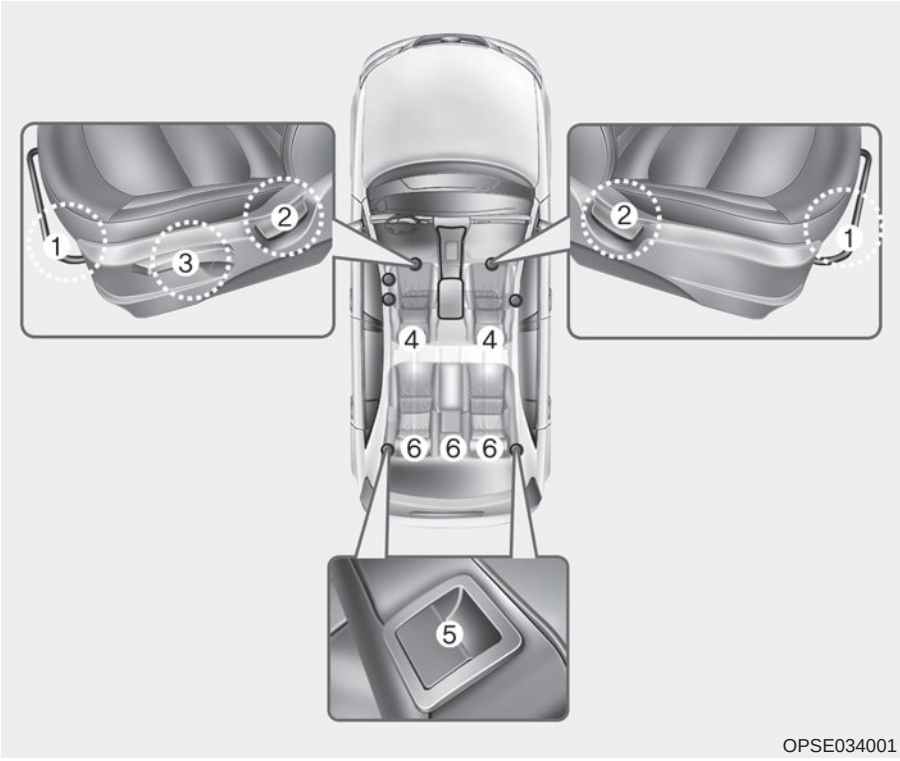
SEATS



Front seat

(1) Forward and backward
(2) Seatback angle
(3) Seat cushion height (Driver's seat)
(4) Headrest

Rear seat

(5) Seatback folding
(6) Headrest

⚠ WARNING - Loose objects

Do not place anything in the driver's foot well or under the front seats. Loose objects in the driver's foot area could interfere with the operation of the foot pedals.

⚠ WARNING - Uprighting seat

Do not press the release lever on a manual seatback without holding and controlling the seatback. The seatback will spring upright possibly impacting you or other passengers.

⚠ WARNING - Driver responsibility for passengers

The driver must advise the passenger to keep the seatback in an upright position whenever the vehicle is in motion. 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.

⚠ WARNING - Seat cushion

Occupants should never sit on seat cushions. The passenger's hips may slide under the lap portion of the seat belt during an accident or a sudden stop.

⚠ WARNING - Driver's seat

- **Never attempt to adjust the seat while the vehicle is moving. This could result in loss of control of your vehicle.**
- **Do not allow anything to interfere with the normal position of the seatback. 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.**

(Continued)

(Continued)

- Sit as far back as possible from the steering wheel while still maintaining comfortable control of the your vehicle. A distance of at least 10" from your chest to the steering wheel is recommended. Failure to do so can result in airbag inflation injuries to the driver.

⚠ WARNING - Rear seatbacks

Always lock the rear seatback before driving. Failure to do so could result in passengers or objects being thrown forward injuring vehicle occupants.

⚠ WARNING - Luggage and Cargo

Do not stack pile or stack luggage or cargo higher than the seatback in the cargo area. In an accident the cargo could strike and injury a passenger. If objects are large, heavy or must be piled, they must be secured in the cargo area.

⚠ WARNING - Unexpected Seat Movement

After adjusting a manual seat, always check that it is locked by shifting your weight to the front and back. Sudden or unexpected movement of the driver's seat could cause you to lose control of the vehicle.

⚠ WARNING - Seat adjustment

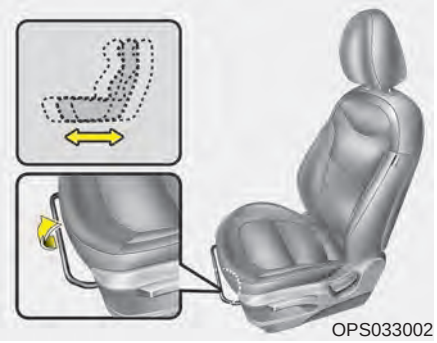
- Do not adjust the seat while wearing seat belts. Moving the seat forward will cause strong pressure on the abdomen.
- Do not place your hand near the seat adjusting the seat. Your hand could get caught in the seat mechanism.

⚠ WARNING - Cargo Area

Do not allow passengers to ride in the cargo area under any circumstance. The cargo area is solely for the purpose of transporting luggage or cargo.

Front seat adjustment

Forward and backward

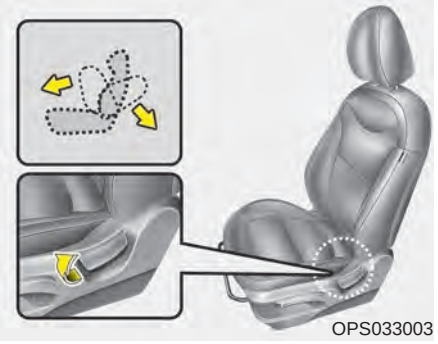


To move the seat forward or backward:

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 backward without using the lever. If the seat moves, it is not locked properly.

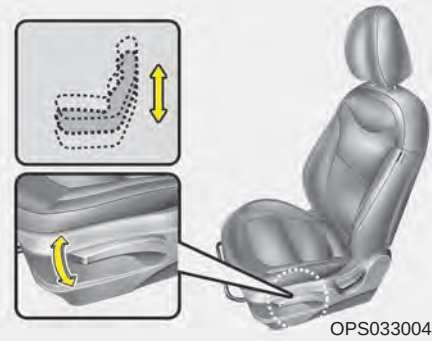
Seatback angle



To recline the seatback:

1. Lean forward slightly and lift up the seatback recline lever.
2. Carefully lean back on the seatback and adjust the seatback of the seat to the position you desire.
3. Release the lever and make sure the seatback is locked in place. (The lever MUST return to its original position for the seatback to lock.)

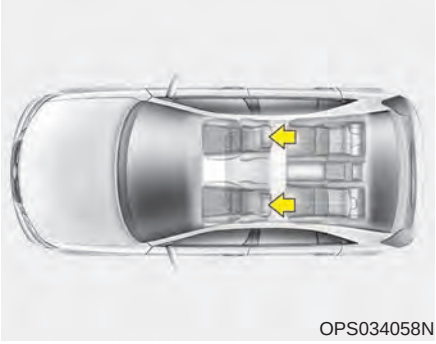
Seat height (for driver's seat)



To change the height of the seat, push the lever 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.

Headrest (for front seat)


OPS034058N

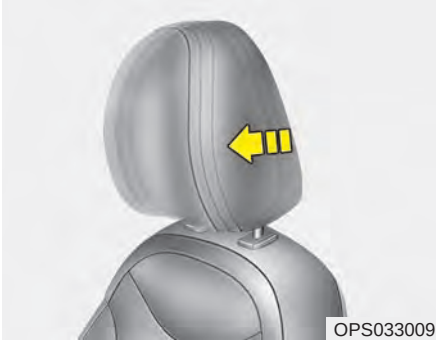
The driver's and front passenger's seats are equipped with a headrest for the occupant's safety and comfort.

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

For maximum effectiveness in case of an accident, the headrest should be adjusted so the middle of the headrest is at the same height of 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.

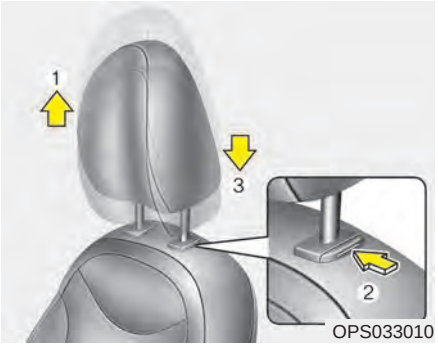
⚠ WARNING - Headrest removal/adjustment

- **Do not operate the vehicle with the headrests removed. Headrests can provide critical neck and head support in a crash.**
- **Do not adjust the headrest height while the vehicle is in motion. Driver may lose control of the vehicle.**


OPS033009

Forward and rearward adjustment

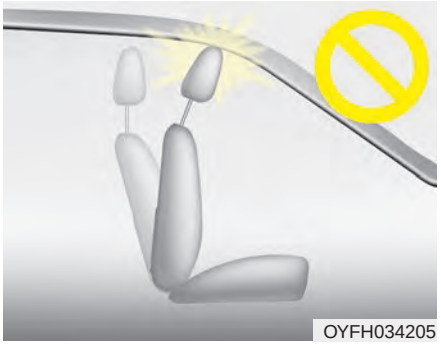
The headrest may be adjusted forward to 4 different positions by pulling the headrest forward to the desired detent. To adjust the headrest to it's furthest rearward position, pull it fully forward to the farthest position and release it. Adjust the headrest so that it properly supports the head and neck.



OPS033010

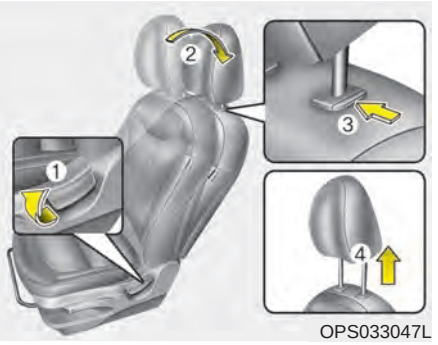
Adjusting the height up and down

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).


OYFH034205

⚠ CAUTION

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



OPS033047L

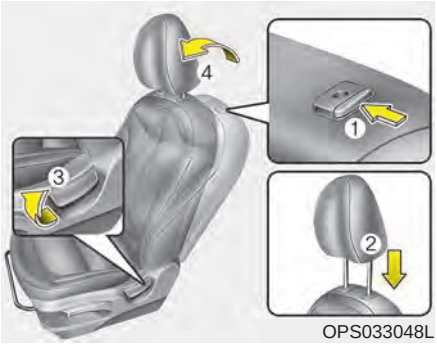
Removal and installation

To remove the headrest:

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

⚠ WARNING

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



OPS033048L

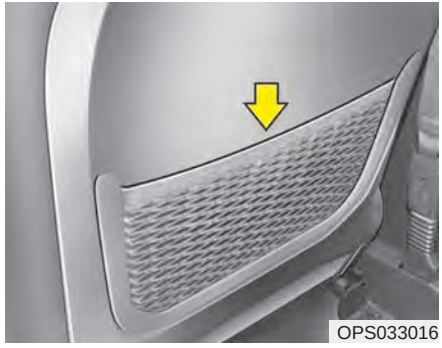
To reinstall the headrest :

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

⚠ WARNING - Headrest Reinstallation

To reduce the risk of injury to the head or neck, always make sure the headrest is locked into position and adjusted properly after reinstalling.

Seatback pocket


OPS033016

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

⚠ WARNING - Seatback pockets

Do not put heavy or sharp objects in the seatback pocket. An occupant could contact such objects in a crash. Heavy objects in the front passenger seatback could also interfere with the airbag sensing system.

Rear seat adjustment

Folding the rear seat

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

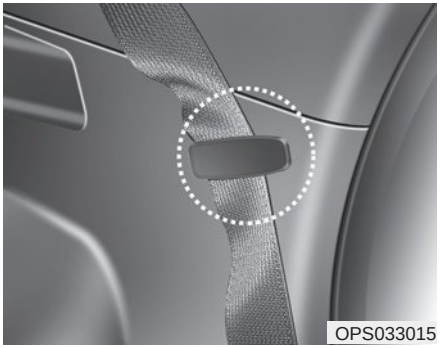
⚠ WARNING - Folded down seatback

Never allow passengers sit on top of the folded down seatback while the vehicle is moving. This is not a proper seating position and no seat belts are available for use.

This could result in serious injury or death in case of an accident or sudden stop.

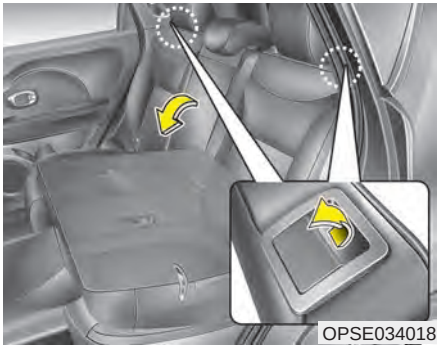
⚠ WARNING - Objects

Objects carried on the folded down seatback should not extend higher than the top of the front seatbacks. This could allow cargo to slide forward and cause injury or damage during sudden stops.



To fold down the rear seatback

1. Insert the rear seat belt webbing in the guide to prevent the seat belt from being damaged.
2. Set the front seatback to the upright position and if necessary, slide the front seat forward.
3. Lower the rear headrests to the lowest position.



4. Pull on the seatback folding lever, then fold the seat toward the front of the vehicle. 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.
5. To use the rear seat, lift and pull the seatback backward by pulling on the folding lever.

   Pull the seatback firmly until it clicks into place.

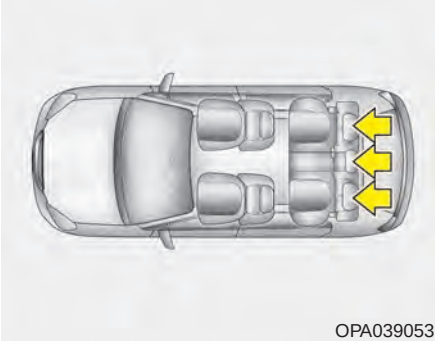
   Make sure the seatback is locked in place.
6. Return the rear seat belt to the proper position.

⚠ WARNING - Cargo

Do not place heavy objects in the rear seats, since they cannot be properly secured and may hit vehicle occupants in a frontal collision.

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

Headrest



The rear seat(s) is equipped with headrests in all the seating positions for the occupant's safety and comfort.

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

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.

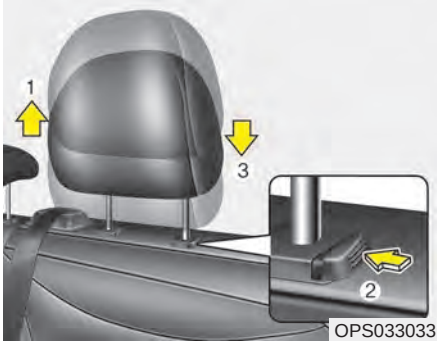
Generally, the center of gravity of most people's head is similar with the height of the top of their eyes.

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.

⚠ WARNING - Headrest removal/adjustment

- **Do not operate the vehicle with the headrests removed. Headrests can provide critical neck and head support in a crash.**
- **Do not adjust the headrest height while the vehicle is in motion. Driver may lose control of the vehicle.**

Adjusting the height up and down



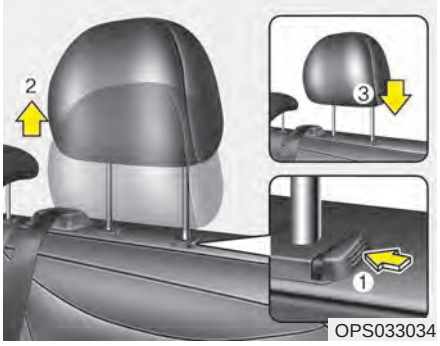
To raise the headrest :

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

To lower the headrest :

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

Removal and installation



To remove the headrest :

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

To reinstall the headrest :

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

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

⚠ WARNING - Headrest installation

After installing the headrest, make sure that it is installed in the right direction.

A headrest installed reversely could increase whiplash injury during rear impact.

SEAT BELTS

Seat belt restraint system

- For maximum restraint system protection, the seat belts must always be used whenever the vehicle is moving. A properly positioned shoulder belt should be positioned midway over your shoulder across your collarbone.
- Never allow children to ride in the front passenger seat. See child restraint system section for further discussion.

⚠ WARNING - Shoulder Belt

- **Never wear the shoulder belt under your arm or behind your back. An improperly positioned shoulder belt cannot protect the occupant in a crash.**
- **Always wear both the shoulder portion and lap portion of the lap/shoulder belt.**

⚠ WARNING - Damaged seat belt

Replace the entire seat belt assembly if any part of the webbing or hardware is damage as you can no longer be sure that a damage seat belt will provide protection in a crash.

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.

- 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.

⚠ WARNING - Seat belt buckle

Do not allow foreign material (gum, crumbs, coins, etc.) to obstruct the seat belt buckle. This may prevent the seat belt from fastening securely.

Seat belt warning

Driver's seat belt warning (1)

The driver's seat belt warning light and chime will activate pursuant to the following table when the POWER button is in "ON" position.

Conditions		Warning Pattern	
Seat Belt	**Vehicle Speed**	**Light-Blink**	**Chime-Sound**
Unbuckled		6 seconds	
Buckled		6 seconds	None
Buckled → Unbuckled	Below 5 km/h (3 mph)	6 seconds	None
	5 km/h~ 10 km/h	6 seconds	
	Above 10 km/h (6 mph)	6 sec. on / 24 sec. off (11 times)	
Unbuckled	Above 10 km/h (6 mph) ↓ Below 5 km/h (3 mph)	6 seconds *1 ↓ Stop *2	

*1 Warning pattern repeats 11 times with an interval of 24 seconds. If the driver's seat belt is buckled, the light will stop within 6 seconds and chime will stop immediately.

*2 The light will stop within 6 seconds and chime will stop immediately.

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Front passenger's seat belt warning (2)

The front passenger's seat belt warning light will activate to the following table when the POWER button is in "ON" position.

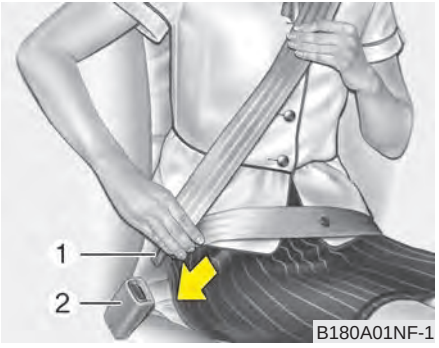
Conditions		Warning Pattern
Seat Belt	**Vehicle Speed**	**Light-Blink**
Unbuckled		6 seconds
Unbuckled	Above 10 km/h (6mph)	Continuously
Buckled		6 seconds
Buckled → Unbuckled	Above 10 km/h (6mph)	Continuously *1
	Below 10 km/h (6mph)	None

*1 The seat belt warning light will go off if the vehicle speed decreases below 5 km/h (3 mph). If the vehicle speed increases above 5 km/h (3 mph), the warning light will blink again.

Riding in an improper position adversely affects the front passenger's seat belt warning system. It is important for the driver to instruct the passenger as to the proper seating instructions as contained in this manual.

- You can find the front passenger's seat belt warning light on the center fascia panel.
- Although the front passenger seat is not occupied, the seat belt warning light will blink for 6 seconds.
- The seat belt warning light can blink when a briefcase or purse is placed on the front passenger seat.

Seat belt - Driver's 3-point system with emergency locking retractor

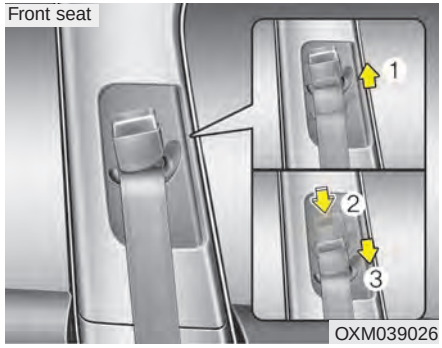


To fasten your seat belt:

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 quickly.

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.



Height adjustment

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

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).

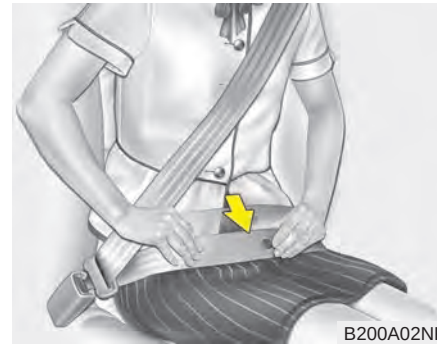
Release the button to lock the anchor into position. Try sliding the height adjuster to make sure that it has locked into position.

⚠ WARNING - Shoulder belt positioning

Never position the shoulder belt across your neck or face.

⚠ WARNING - Seat belt replacement

Replace your seat belts after being 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.



You should place the lap belt portion as low as possible and snugly across your hips, not on your waist. If the lap belt is located too high on your waist, it may increase the chance of injury in the event of a collision. Both arms should not be under or over the belt. Rather, one should be over and the other under, as shown in the illustration.

Never wear the seat belt under the arm that is near the door.

Seat belts - Front passenger and rear seat 3-point system with combination locking retractor

To fasten your seat belt:

Combination retractor type seat belts are installed in the rear seat positions to help accommodate the installation of child restraint systems. Although a combination retractor is also installed in the front passenger seat position, it is strongly recommended that children always be seated in the rear seat. NEVER place any infant restraint system in the front seat of the vehicle.

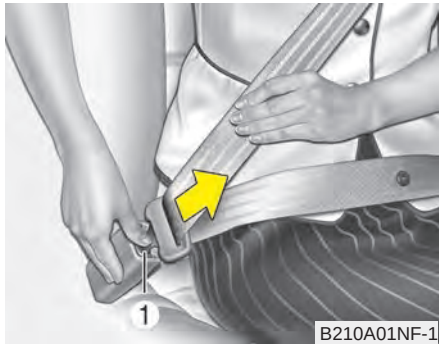
This type of seat belt combines the features of both an emergency locking retractor seat belt and an automatic locking retractor seat belt. To fasten your seat belt, pull it out of the retractor and insert the metal tab into the buckle. There will be an audible "click" when the tab locks into the buckle. When not securing a child restraint, the seat belt operates in the same way as the driver's seat belt (Emergency Locking Retractor Type). It automatically adjusts to the proper length only after the lap belt portion of the seat belt is adjusted manually so that it fits snugly around your hips.

When the seat belt is fully extended from the retractor to allow the installation of a child restraint system, the seat belt operation changes to allow the belt to retract, but not to extend (Automatic Locking Retractor Type). Refer to “Using a child restraint system” in this chapter.

✻ NOTICE

Although the combination retractor provides the same level of protection for seated passengers in either emergency or automatic locking modes, have the seated passengers use the emergency locking feature for improved convenience. The automatic locking function is intended to facilitate child restraint installation. To convert from the automatic locking feature to the emergency locking operation mode, allow the unbuckled seat belt to fully retract.

Do NOT fold down the left portion of the rear seat back when the rear center seat belt is buckled. ALWAYS UNBUCKLE the rear center seat belt before folding down the left portion of the rear seat back. If the rear center seat belt is buckled when the left portion of the rear seat back is folded down, distortion and damage to the top portion of the seat back and seat belt garnish may result, causing the seat back to lock into the folded down position.

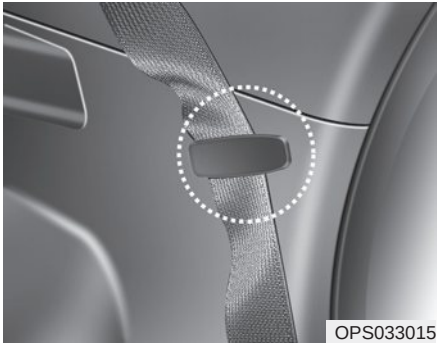


To release the seat belt:

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



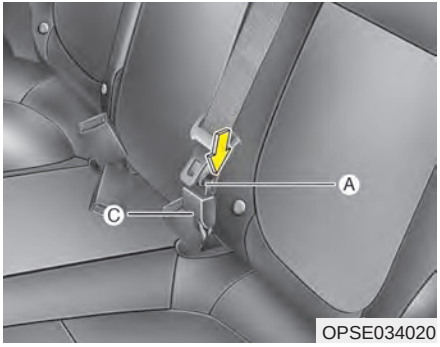
Routing the seat belt webbing through the rear seat belt guides will help keep the belts from being trapped behind or under the seats.

After inserting the seat belt, tighten the belt webbing by pulling it up.

⚠ **CAUTION - Seat belt guide**

Remove the seat belt from the guides before using. If you pull on the seat belt when it is stored in the guides, it may damage the guides and/or belt webbing.

3 Point rear center belt



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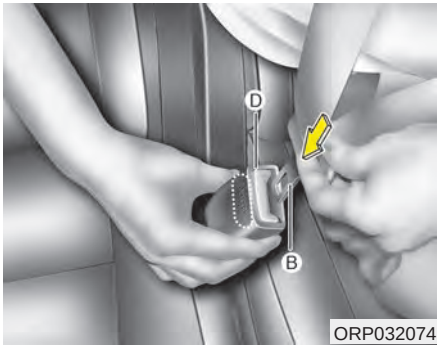
To fasten the rear center belt

1. Insert the mini tongue (A) into the open end of the anchor connector (C) until an audible “click" is heard, indicating the latch is locked. Make sure the belt is not twisted.

⚠ WARNING - Rear center seat belt

Do not separate mini tongue and mini buckle even if there is not an occupant.

If it is separated, It may hit the rear seat occupants in a collision or sudden stops.



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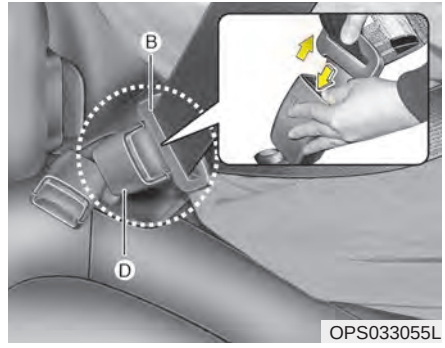
2. Pull the tongue plate (B) and insert the tongue plate (B) into the open end of the buckle (D) until an audible “click” is heard, indicating the latch is locked. Make sure the belt is not twisted.

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

There will be an audible “click” when the tab locks in the buckle. The seat belt automatically adjusts to the proper length only after the lap belt 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, the belt will lock into position. It will also lock if you try to lean forward too quickly.

When using the rear seat center belt, you must lock all tongue plates and buckles.

To unfasten the rear center belt



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Press the release button on the buckle (D) and remove the tongue plate (B) from the buckle (D).

Pre-tensioner seat belt

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Your vehicle is equipped with driver's and front passenger's pre-tensioner seat belts (retractor pretensioner and EFD (Emergency Fastening Device)). The pre-tensioner seat belts may be activated, when a frontal collision is severe enough, together with the air bags.

When the vehicle stops suddenly, or if the occupant tries to lean forward too quickly, the seat belt retractor may 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.

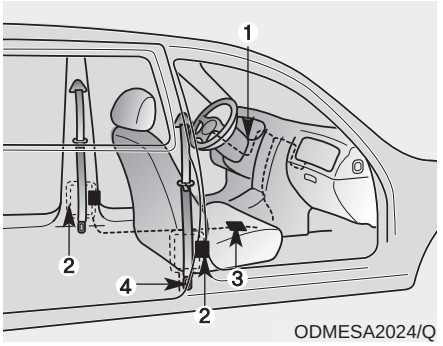
(1) Retractor Pretensioner

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

(2) EFD (Emergency Fastening Device)

The purpose of the EFD is to make sure that the pelvis belts fit in tightly against the occupant's lower body in certain frontal collisions.

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



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

(4) Emergency fastening device (EFD)

- Both the driver's and front passenger's seat belt pre-tensioner system may be activated not only in certain frontal collision but also in certain side collision or rollover, if the vehicle is equipped with a side or curtain air bag.
- Because the sensor that activates the SRS air bag is connected with the pre-tensioner seat belt, the SRS air bag warning light on the instrument panel will illuminate for approximately 6 seconds after the POWER button has been turned to the ON position, and then it should turn off.

If the pre-tensioner seat belt system are not working properly, this 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 POWER button is turned ON, or if it remains illuminated after illuminating for approximately 6 seconds, or if it illuminates while the vehicle is being driven, have an authorized Kia dealer inspect the pre-tensioner seat belt and SRS air bag system as soon as possible.

⚠ WARNING - Hot pretensioner

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

Pre-tensioners are designed to operate only one time. After activation, pre-tensioner seat belts must be replaced. If the pre-tensioner must be replaced, contact an authorized Kia dealer.

Seat belt precautions

Infant or small child

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” in this chapter.

✻ 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" in this chapter.

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 the 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 12) must be seated in the front seat, the child should be securely restrained by the available lap/shoulder belt and the seat should be placed in the rearmost position. Children age 12 and under should be restrained securely in the rear seat. NEVER place a child age 12 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 they need to be returned to a child restraint system.

⚠ WARNING - Small children

Do not allow small children to ride in the vehicle without an appropriate child restraint system. If the shoulder belt comes in contact with your child's neck or face your child is too small to ride in the vehicle. In a crash the seat belt will inflict injury to your child's neck, throat and face.

Restraint of pregnant women

Pregnant women should wear lap/shoulder belt assemblies whenever possible according to specific recommendations by their doctors. The lap portion of the belt should be worn AS SECURELY AND LOW AS POSSIBLE.

⚠ WARNING - Pregnant women

Pregnant women must never place the lap portion of the seat belt above or on the abdomen where the fetus is located. The force of the seat belt during a collision will crush the fetus.

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.

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 - Pinched seat belt

Make sure that the webbing and/or buckle does not get caught or pinched in the rear seat when returning the rear seatback to its upright position. A caught or pinched webbing/buckle may become damaged and could fail during a collision or sudden stop.

Periodic inspection

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

Keep belts clean and dry

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

When to replace seat belts

The entire 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. Additional questions concerning seat belt operation should be directed to an authorized Kia dealer.

CHILD RESTRAINT SYSTEM

Children riding in the vehicle should sit in the rear seat 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. Larger children not in a child restraint should use one of the seat belts provided.

You should be aware of the specific requirements in your country. Child and/or infant safety seats must be properly placed and installed in the rear seat. You must use a commercially available child restraint system that meets the requirements of the Safety Standards of your country.

Child restraint systems are designed to be secured in vehicle seats by the lap belt portion of a lap/shoulder belt, or by a tether anchor and/or LATCH anchors.

Children could be injured or killed in a crash if their restraints are not properly secured. For small children and babies, a child seat or infant seat must be used. Before buying a particular child restraint system, make sure it fits your vehicle seat and seat belts, and fits your child.

Follow all the instructions provided by the manufacturer when installing the child restraint system.

⚠ WARNING - Restraint location

Never install a child or infant seat on the front passenger's seat. A child riding in the front passenger seat can be forcefully struck by an inflating airbag.

⚠ WARNING - Hot child restraint

A child restraint system can become very hot if it is left in a closed vehicle on a sunny day. Be sure to check the seat cover, buckles and latches before placing a child in the restraint system.

When the child restraint system is not in use, store it in the luggage area or fasten it with a seat belt so that it will not be thrown forward in case of a sudden stop or an accident.

⚠ WARNING - Holding 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 car's interior. Always use a child restraint system which is appropriate for your child's height and weight.

⚠ WARNING - Unattended Children

Never leave children unattended in a vehicle. The car can heat up very quickly, resulting in injuries to the child in the vehicle.

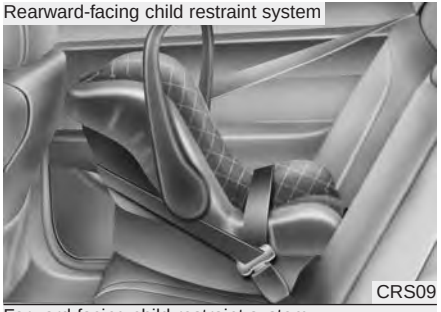
⚠ WARNING - Seat belt use

Do not use one seat belt for two occupants at the same time. This will eliminate any safety benefit provided by the seat belt to the occupants.

After an accident, have an authorized Kia dealer check the child restraint system, seat belt, tether anchor and lower anchor.

Using a child restraint system

Rearward-facing child restraint system



Forward-facing child restraint system

For small children and babies, the use of a child seat or infant seat is required. The child seat or infant seat should be of appropriate size for the child and should be installed in accordance with the manufacturer's instructions.

For safety reasons, we recommend that the child restraint system be used in the rear seats.

Never place a rear-facing child restraint in the front passenger seat, because of the danger an inflating passenger-side air bag could impact the rear-facing child restraint and kill the child.

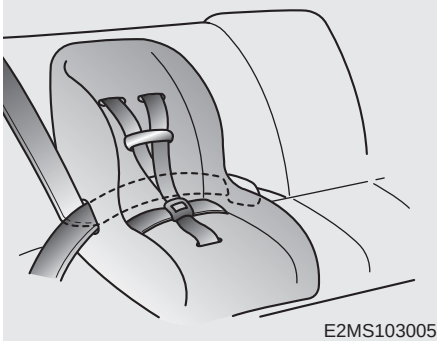
Since all passenger seat belts move freely under normal conditions and only lock under extreme or emergency conditions (emergency lock mode), you must manually change these seat belts to the auto lock mode to secure a child restraint.

If the seat belt does not operate as described in this chapter, have the system checked immediately by your authorized Kia dealer.

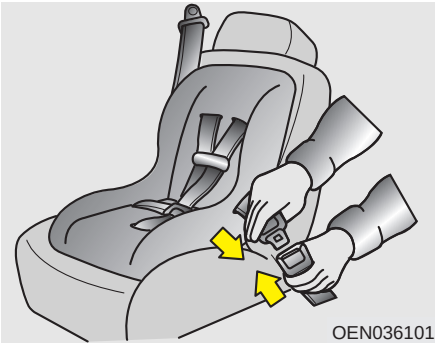
⚠ WARNING - Child seat installation

- **Always follow the instructions provided by the child restraint system manufacturer. Child restraint system manufacturers know their products best.**
- **Failure to observe this manual's instructions regarding child restraint system and the instructions provided with the child restraint system could result in the improper installation of the child restraint system which may reduce the protection to your child in a crash or a sudden stop.**

Placing a passenger seat belt into the auto lock mode



The auto lock mode will help prevent the normal movement of the child in the vehicle from causing the seat belt to loosen and compromise the child restraint system. To secure a child restraint system, use the following procedure.

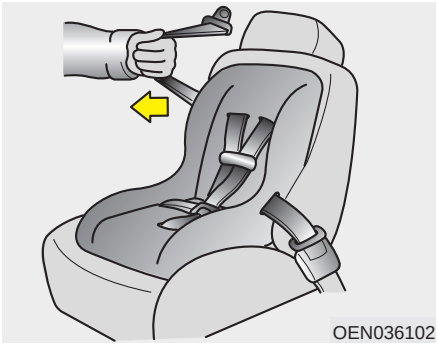


To install a child restraint system on the outboard or center rear seats, do the following:

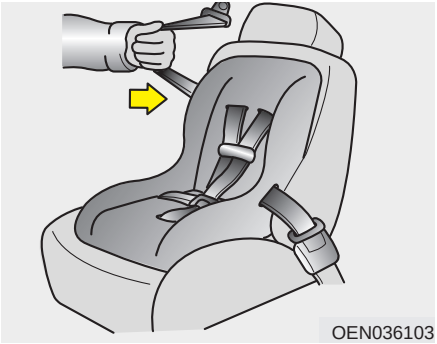
1. Place the child restraint system in the seat and route the lap/shoulder belt around or through the restraint, following the restraint manufacturer's instructions. Be sure the seat belt webbing is not twisted.
2. Fasten the lap/shoulder belt latch into the buckle. Listen for the distinct "click" sound.

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

If the vehicle headrest prevents proper installation of a child seat (as described in the child seat system manual), the headrest of the respective seating position shall be readjusted or entirely removed.



3. Pull the shoulder portion of the seat belt all the way out. When the shoulder portion of the seat belt is fully extended, it will shift the retractor to the "Auto Lock" (child restraint) mode.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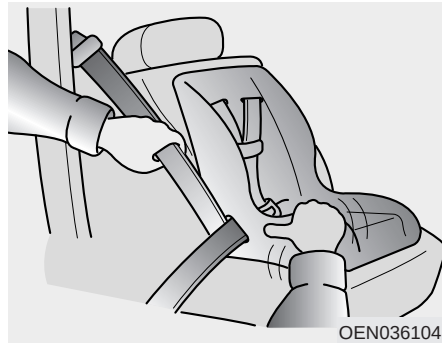
4. Slowly allow the shoulder portion of the seat belt to retract and listen for an audible “clicking” or “ratcheting” sound. This indicates that the retractor is in the “Auto Lock” mode. If no distinct sound is heard, repeat steps 3 and 4.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5. Remove 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.
6. Push and pull on the child restraint system to confirm that the seat belt is holding it firmly in place. If it is not, release the seat belt and repeat steps 2 through 6.
7. Double check that the retractor is in the “Auto Lock” mode by attempting to pull more of the seat belt out of the retractor. If you cannot, the retractor is in the “Auto Lock” mode.

The lap/shoulder belt automatically returns to the “emergency lock mode” whenever the belt is allowed to retract fully. Therefore, the preceding seven steps must be followed each time a child restraint is installed.

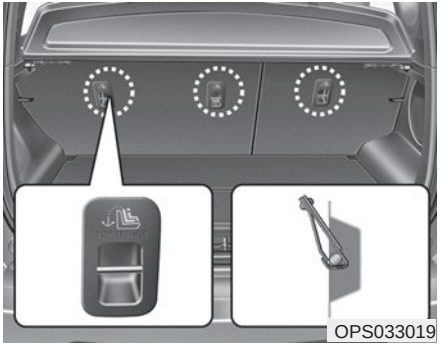
To remove the child restraint, press the release button on the buckle and then pull the lap/shoulder belt out of the restraint and allow the seat belt to retract fully.

⚠ WARNING - Auto lock mode

Set the retractor to Automatic Lock mode when installing any child restraint system. If the retractor is not in the Automatic Locking mode, the child restraint can move when your vehicle turns or stops suddenly.

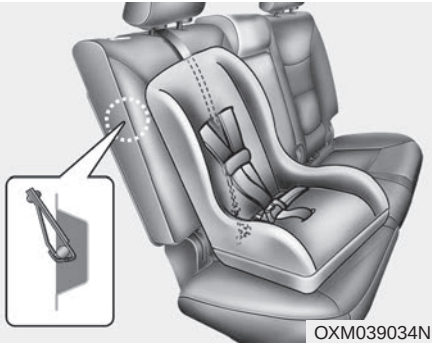
When the seat belt is allowed to retract to its fully stowed position, the retractor will automatically switch from the “Auto Lock” mode to the emergency lock mode for normal adult usage.

Securing a child restraint seat with tether anchor system



Child restraint hook holders are located on the back of the rear seatbacks.

This symbol indicates the position of the tether anchor.



1. Route the child restraint seat strap over the seatback.

   For vehicles with adjustable headrests, route the tether strap under the headrest and between the headrest posts, otherwise route the tether strap over the top of the seatback. In case of interference between the child restraint seat and the headrest remove the particular head restraint for better fitment of the child restraint seat.

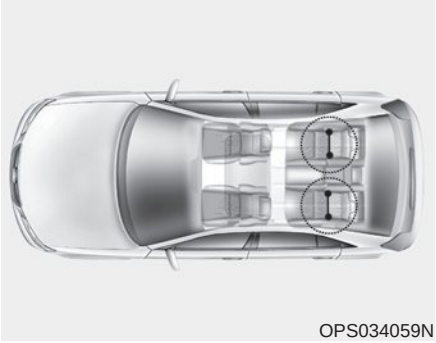
2. Connect the tether strap hook to the appropriate child restraint hook holder and tighten to secure the child restraint seat.

⚠ WARNING - Tether strap

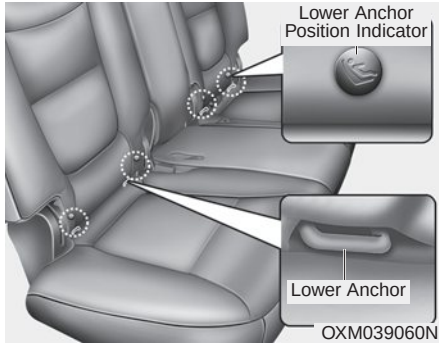
Never mount more than one child restraint to a single tether or to a single lower anchorage point. The increased load caused by multiple seats may cause the tethers or anchorage points to break.

Check that the child restraint system is secure by pushing and pulling it in different directions. Incorrectly fitted child restraints may swing, twist, tip or separate causing death or serious injury.

Securing a child restraint seat with child seat lower anchor system


OPS034059N

Some child seat manufacturers make child restraint seats that are labeled as LATCH or LATCH-compatible child restraint seats. LATCH stands for "Lower Anchors and Tethers for Children". These seats include two rigid or webbing mounted attachments that connect to two LATCH anchors at specific seating positions in your vehicle. This type of child restraint seat eliminates the need to use seat belts to attach the child seat in the rear seats.



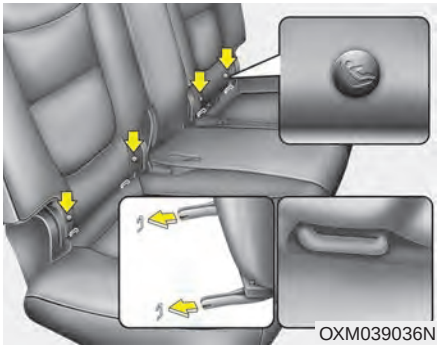
OXM039060N

Child restraint symbols are located on the left and right 2nd row seat backs to indicate the position of the lower anchors for child restraints.

⚠ WARNING - Unused rear seatbelts

Always fasten the seatbelts behind the child restraint seat when they are not used to secure the child seat. Failure to do so may result in child strangulation.

Install the child restraint seat fully rearward against the seatback with the seatback reclined two positions from the most upright latched position.



LATCH anchors have been provided in your vehicle. The LATCH anchors are located in the left and right outboard rear seating positions. Their locations are shown in the illustration. There is no LATCH anchor provided for the center rear seating position.

The LATCH anchors are located between the seatback and the seat cushion of the 2nd row seat left and right outboard seating positions.

Follow the child seat manufacturer's instructions to properly install child restraint seats with LATCH or LATCH-compatible attachments.

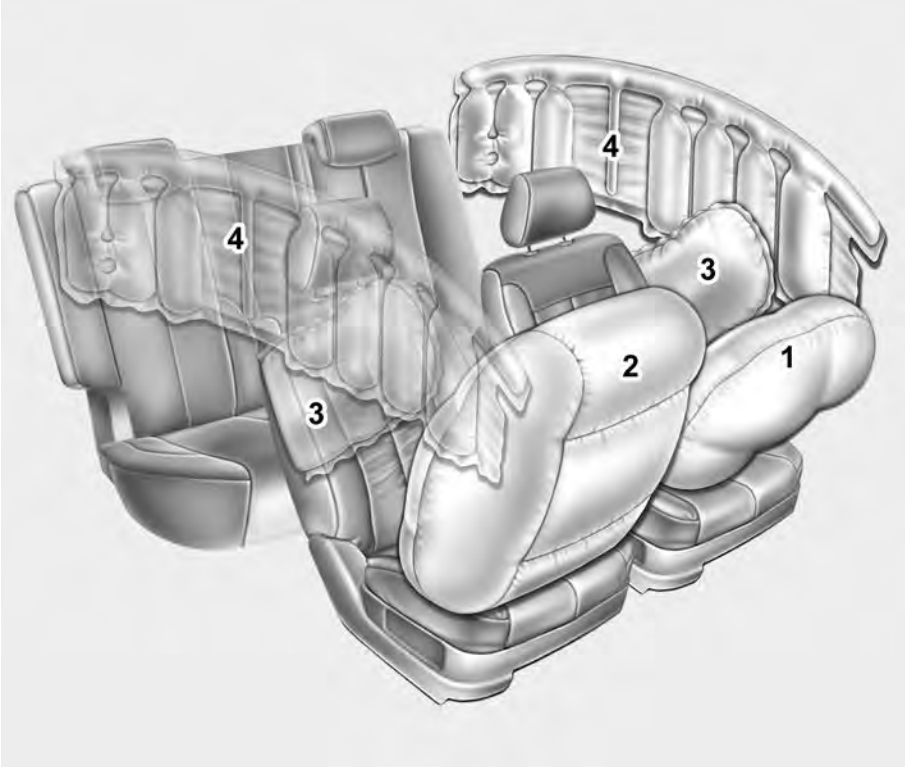
Once you have installed the LATCH child restraint, assure that the seat is properly attached to the LATCH and tether anchors.

Also, test the child restraint seat before you place the child in it. Tilt the seat from side to side. Also try to tug the seat forward. Check to see if the anchors hold the seat in place.

⚠ WARNING - LATCH lower anchors

Never attempt to attach a LATCH equipped seat in the center seating position. LATCH lower anchors are only to be used with the left and right rear outboard seating positions. You may damage the anchors or the anchors may fail and break in a collision.

AIR BAG - ADVANCED SUPPLEMENTAL RESTRAINT SYSTEM



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

OAM032026

(1) Driver's front air bag
(2) Passenger's front air bag
(3) Side air bag
(4) Curtain air bag

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.

How does the air bag system operate

- Air bags are activated (able to inflate if necessary) only when the POWER button is turned to the ON or the vehicle is in the ready ( ) mode.
- The appropriate air bags inflate instantly in the event of a serious frontal collision or side collision in order to help protect the occupants from serious physical injury.
- There is no single speed at which the air bags will inflate.

  Generally, air bags are designed to inflate based upon the severity of a collision and its direction. These two factors determine whether the sensors produce an electronic deployment/ inflation signal.
- Air bag deployment depends on a number of factors including vehicle speed, angles of impact and the density and stiffness of the vehicles or objects which your vehicle hits in the collision. The determining factors are not limited to those mentioned above.
- The front air bags will completely inflate and deflate in an instant.

  It is virtually impossible for you to see the air bags inflate during an accident.

  It is much more likely that you will simply see the deflated air bags hanging out of their storage compartments after the collision.
- In addition to inflating in serious side collisions, side and/or curtain air bags will inflate if the sensing system detects a rollover.
- When a rollover is detected, curtain air bags will remain inflated longer to help provide protection from ejection, especially when used in conjunction with the seat belts.
- In order to help provide protection, the air bags must inflate rapidly. The speed of the air bag inflation is a consequence of extremely short time in which to inflate the air bag between the occupant and the vehicle structures before the occupant impacts those structures. This speed of inflation reduces the risk of serious or life-threatening injuries and is thus a necessary part of 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 or passenger air bag can cause fatal injuries, especially if the occupant is positioned excessively close to the steering wheel or passenger air bag.**

⚠ WARNING - Airbag inflation

Sit as far back as possible from the steering wheel while still maintaining comfortable control of your vehicle. A distance of at least 10" from your chest to the steering wheel is recommended. Failure to do so can result in airbag inflation injuries to the driver.

Noise and smoke

When inflated, the air bags make a loud noise and leave smoke and powder in the air inside the vehicle. This is normal and is a result of the ignition of the air bag inflator. After the air bag inflates, you may feel substantial discomfort in breathing due to the contact of your 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 smoke and powder are non-toxic, it 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.

⚠ WARNING - Hot components

Do not touch the air bag storage area's internal components immediately after airbag inflation. The air bag related parts in the steering wheel, instrument panel and the roof rails above the front and rear doors are very hot. Hot components can result in burn injuries.

Do not install a child restraint on the front passenger's seat.

1JBH3051

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 front-facing child restraints in the front passenger's seat either. If the front passenger air bag inflates, it could cause serious or fatal injuries to the child.

⚠ WARNING - Air bag deployment

When children are seated in the rear outboard seats of a vehicle equipped with side and/or curtain air bags, install the child restraint system as far away from the door side as possible. Inflation of the side and/or curtain air bags could impact the child.

Air bag warning light

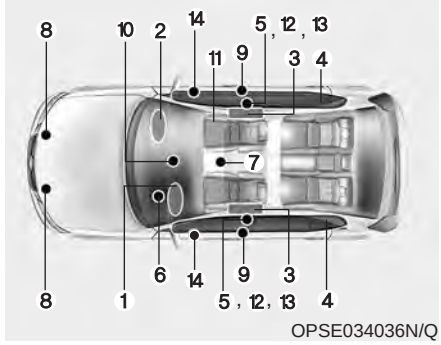
W7-147

The purpose of air bag warning light in your instrument panel is to alert you of a potential problem with your air bag system, which could include your side and/or curtain air bags used for rollover protection.

When the POWER button is turned ON, the warning light should illuminate for approximately 6 seconds, then go off. Have the system checked by an authorized Kia dealership if:

- The light does not turn on briefly when you turn the POWER button 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 POWER button is in ON position.

SRS components and functions



The SRS consists of the following components:

1. Driver's front air bag module
2. Passenger's front air bag module
3. Side air bag modules
4. Curtain air bag modules
5. Retractor pre-tensioner assemblies
6. Air bag warning light
7. SRS control module (SRSCM)/ Rollover sensor
8. Front impact sensors
9. Side impact sensors
10. PASSENGER “AIR BAG OFF” indicator (Front passenger’s seat only)
11. Occupant detection system (Front passenger’s seat only)
12. Driver’s and front passenger’s seat belt buckle sensors
13. Emergency fastening device (EFD)
14. Side pressure impact sensor

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

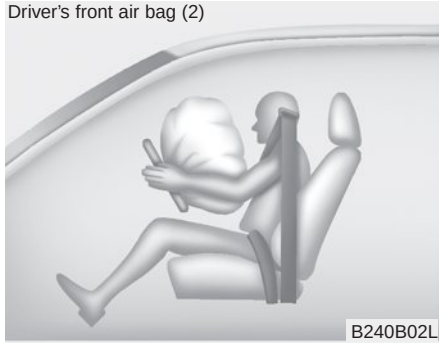
If the air bag warning light illuminated for more than, 6 seconds after the POWER button is turned on, or of it illuminates during vehicle operation, an SRS component may not be functioning properly and you should have your vehicle checked by an authorized Kia dealer.

If any of the following conditions occurs, this indicates a malfunction in the air bag system. Have an authorized Kia dealer inspect the air bag system as soon as possible.

- The light does not turn on briefly when you turn the POWER button 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 POWER button is in ON position.

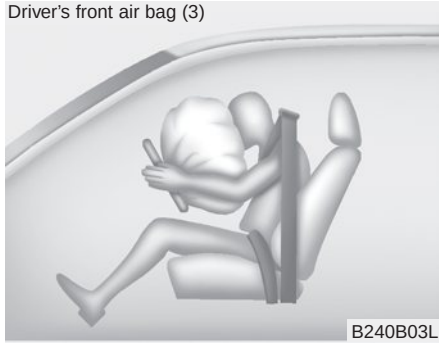
The front air bag modules are located both in the center of the steering wheel and in the front passenger's panel above the glove box. When the SRSCM detects a sufficiently severe impact to the front of the vehicle, it will automatically deploy the front air bags.

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)



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

⚠ WARNING - Air bag obstructions

Do not install or place any accessories on the steering wheel, instrument panel, or on the front passenger's panel above the glove box in a vehicle. Such objects may become dangerous projectiles if the air bag deploys.

⚠ WARNING - Flying objects

Do not place any objects (an umbrella, bag, etc.) between the front door and the front seat. Such objects may become dangerous projectiles if the side airbag inflates.

- 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 lukewarm water and a mild soap after an accident in which the air bags were deployed.
- The SRS can function only when the POWER button is in the ON position. If the SRS air bag warning light does not illuminate, or continuously remains on after illuminating for about 6 seconds when the POWER button is turned to the ON position, or after the vehicle is in the ready ( ) mode, comes on while driving, the SRS is not working properly. If this occurs, have your vehicle immediately inspected by an authorized Kia dealer.

✻ NOTICE

Before you replace a fuse or disconnect a battery terminal, turn the vehicle off. Never remove or replace the air bag related fuse(s) when the POWER button is in the ON position. Failure to heed this warning will cause the SRS air bag warning light to illuminate.

Occupant Detection System (ODS)

OPSE034035N

Your vehicle is equipped with an occupant detection system in the front passenger's seat.

The occupant detection system is designed to detect the presence of a properly-seated front passenger and determine if the passenger's front air bag should be enabled (may inflate) or not. Only the front passenger front air bag is controlled by the Occupant Detection System.

Do not put anything in front of the passenger air bag OFF indicator.

Main components of the occupant detection system

- A detection device located within the front passenger seat cushion.
- An electronic system which determines whether the passenger air bag systems should be activated or deactivated.
- A indicator light located on the instrument panel which illuminates the words PASSENGER AIR BAG “OFF” indicating the front passenger air bag system is deactivated.
- The instrument panel air bag warning light is interconnected with the occupant detection system.

If the front passenger seat is occupied by a person that the system determines to be of appropriate size, and he/she sits properly (sitting upright with the seatback in an upright position, centered on the seat cushion with their seat belt on, legs comfortably extended and their feet on the floor), the PASSENGER AIR BAG “OFF” indicator will turn off and the front passenger's air bag will be able to inflate, if necessary, in frontal crashes.

You will find the PASSENGER AIR BAG “OFF” indicator on the center facia panel. This system detects the conditions 1~4 in the following table and activates or deactivates the front passenger air bag based on these conditions.

Always be sure that you and all vehicle occupants are seated and restrained properly (sitting upright with the seat in an upright position, centered on the seat cushion, with the person’s legs comfortably extended, feet on the floor, and wearing the safety belt properly) for the most effective protection by the air bag and the safety belt.

- The ODS (Occupant Detection System) may not function properly if the passenger takes actions which can defeat the detection system. These include:

(1) Failing to sit in an upright position.

(2) Leaning against the door or center console.

(3) Sitting towards the sides or the front of the seat.

(4) Putting legs on the dashboard or resting them on other locations which reduce the passenger weight on the front seat.

(5) Improperly wearing the safety belt.

(6) Reclining the seat back.

(7) Wearing a thick cloth like ski wear or hip protection wear.

(8) Put on the seat an additional thick cushion.

Condition and operation in the front passenger occupant detection system

Condition detected by the occupant detection system	Indicator/Warning light		Devices
	"PASSENGER AIR BAG OFF" indicator light	SRS warning light	Front passenger air bag
1. Adult or child*1	Off	Off	Activated
2. Child restraint system*2	On	Off	Deactivated
3. Unoccupied	On	Off	Deactivated
4. There is a malfunction in the system	Off	On	Activated

*1 : The ODS system uses a field to evaluate a person's size to determine whether the air bag should deploy. It is possible for a child to be detected and activate the ODS, thus allowing the air bag to deploy. To maximize safety, do not allow children to ride in the front passenger seat.

*2 : Never install a child restraint system on the front passenger seat.

✻ NOTICE

Do not modify or replace the front passenger seat. Don't place anything on or attach anything such as a blanket, front seat cover or after market seat heater to the front passenger seat. This can adversely affect the occupant detection system.

⚠ WARNING - ODS System

Riding in an improper position adversely affects the Occupant Detection System and may result in the deactivation of the front passenger airbag. It is important for the driver to instruct the passenger as to the proper seating instructions as contained in this manual.

(Continued)

(Continued)

- **Never put a heavy load or an active electronic device on the front passenger seat or seatback pocket.**

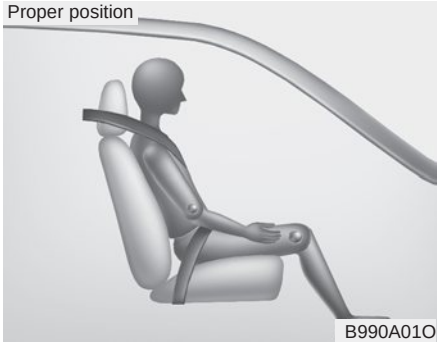
- **Never sit with hips shifted towards the front of the seat.**

- **Never place feet on the dashboard.**

- **Never place feet on the front passenger seatback.**

- **Never excessively recline the front passenger seatback.**

- **Never lean on the door or center console.**
- **Never sit on one side of the front passenger seat.**



When an adult is seated in the front passenger seat, if the PASSENGER AIR BAG “OFF” indicator is on, turn the vehicle off and ask the passenger to sit properly (sitting 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). Restart the vehicle and have the person remain in that position. This will allow the system to detect the person and to enable the passenger air bag.

If the PASSENGER AIR BAG “OFF” indicator is still on, ask the passenger to move to the rear seat.

⚠ WARNING - “AIR BAG OFF” light

Do not allow an adult passenger to ride in the front seat when the PASSENGER AIR BAG “OFF” indicator is illuminated, because the air bag will not deploy in the event of a crash. The driver must instruct the passenger to reposition himself in the seat. Failure to properly position yourself may lead to air bag deactivation resulting in air bag non-deployment in a collision. If the PASSENGER AIR BAG “OFF” indicator remains illuminated after the passenger repositions themselves properly and the car is restarted, it is recommended that passenger move to the rear seat because the passenger's front air bag will not deploy.

✻ NOTICE

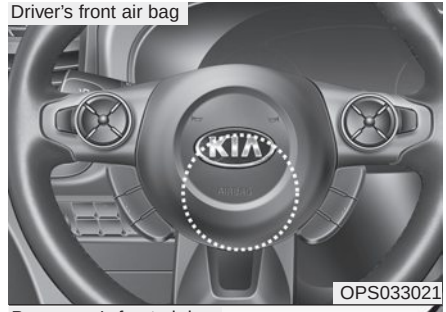
The PASSENGER AIR BAG “OFF” indicator illuminates for about 4 seconds after the POWER button is turned to the ON position or after the vehicle is in the ready ( ) mode. If the front passenger seat is occupied, the occupant detection sensor will then classify the front passenger after several more seconds.

Any child age 12 and under should ride in the rear seat. Children too large for child restraints should use the available lap/shoulder belts. No matter what type of crash, children of all ages are safer when restrained in the rear seat.

If the occupant detection system is not working properly, the SRS air bag warning light on the instrument panel will illuminate because the passenger's front air bag is connected with the occupant detection system. If there is a malfunction of the occupant detection system, the PASSENGER AIR BAG “OFF” indicator will not illuminate and the passenger's front air bag will inflate in frontal impact crashes even if there is no occupant in the front passenger's seat

Driver's and passenger's front air bag

Driver’s front air bag



OPS033021

Passenger’s front air bag

OPS033022

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

The indication of the system's presence are the letters "AIR BAG" embossed on the air bag pad cover on 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. The SRS uses sensors to gather information about the driver's and front passenger's seat belt usage and impact severity.

The seat belt buckle sensors determine if the driver and front passenger's seat belts are fastened.

⚠ WARNING - Replacement/ modifications

The front passenger seat, dashboard or door should not be replaced except by an authorized Kia dealer using original Kia parts designed for this vehicle and model. Any other such replacement or modification could adversely affect the operation of the occupant detection system and your advanced air bags.

⚠ CAUTION - Seat Track Sensor

Do not place any objects underneath the front seats as they could damage the seat track position sensor or interfere with the occupant detection system.

These sensors provide the ability to control the SRS deployment based on whether or not the seat belts are fastened, and how severe the impact is.

The advanced SRS offers the ability to control the air bag inflation with two levels. A first stage level is provided for moderate-severity impacts. A second stage level is provided for more severe impacts.

The passenger’s front air bag is designed to help reduce the injury of children sitting close to the instrument panel in low speed collisions. However, children are safer if they are restrained in the rear seat.

According to the impact severity and seat belt usage, the SRSCM (SRS Control Module) controls the air bag inflation. Failure to properly wear seat belts can increase the risk or severity of injury in an accident.

Additionally, your vehicle is equipped with an occupant detection system in the front passenger's seat. The occupant detection system detects the presence of a passenger in the front passenger's seat and will turn off the front passenger's air bag under certain conditions. For more detail, see "Occupant detection system" in this section.

⚠ WARNING - Modification

Modification to the seat structure can cause the air bag to deploy at a different level than should be provided.

Manufacturers are required by government regulations to provide a contact point concerning modifications to the vehicle for persons with disabilities, which modifications may affect the vehicle's advanced air bag system. However, Kia does not endorse nor will it support any changes to any part or structure of the vehicle that could affect the advanced air bag system, including the occupant detection system.

⚠ WARNING - Replacement / Modifications

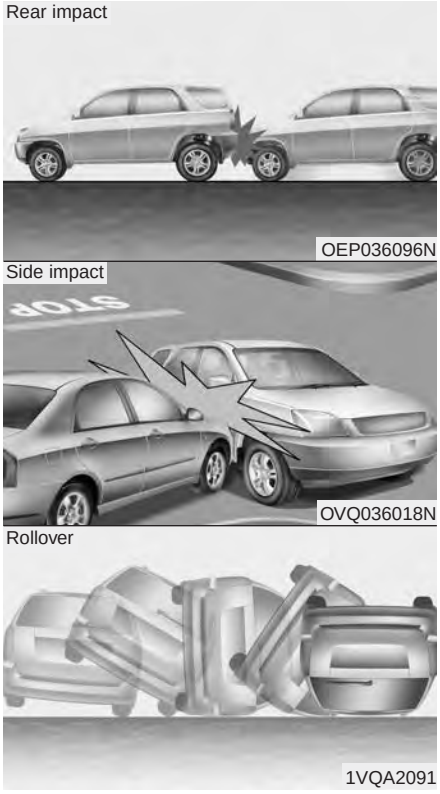
The front passenger seat, dashboard or door should not be replaced except by an authorized Kia dealer using original Kia parts designed for this vehicle and model. Any other such replacement or modification could adversely affect the operation of the occupant detection system and your advanced air bags.

Advanced air bags are combined with pre-tensioner seat belts to help provide enhanced occupant protection in frontal crashes. Front air bags are not intended to deploy in collisions in which sufficient protection can be provided by the pre-tensioner seat belt.

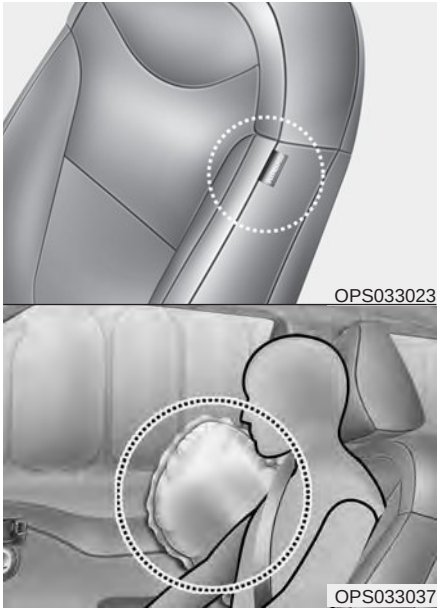
⚠ WARNING - SRS Wiring

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.

Front air bags are not intended to deploy in side-impact, rear-impact or rollover crashes. However, when frontal deployment threshold is satisfied at side-impact, front air bags may deploy. In addition, front air bags will not deploy in frontal crashes below the deployment threshold.



Side air bag



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

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

- The side air bags are designed to deploy during certain side-impact collisions, depending on the crash severity, angle, speed and point of impact.
- The side and/or curtain air bags do not only deploy on the side of the impact but also on the opposite side.
- The side and/or curtain air bags on both sides of the vehicle will deploy if a rollover or possible rollover is detected.
- The side air bags are not designed to deploy in all side impact or rollover situations.

⚠ WARNING - Unexpected deployment

Avoid impact to the side impact airbag sensor when the POWER button is ON to prevent unexpected deployment of the side impact air bag.

- The side air bag is supplemental to the driver's and the passenger's 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 operation.
- For best protection from the side air bag system and to avoid being injured by the deploying side air bag, both front seat occupants should sit in an upright position with the seat belt properly fastened. 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.

⚠ WARNING - Deployment

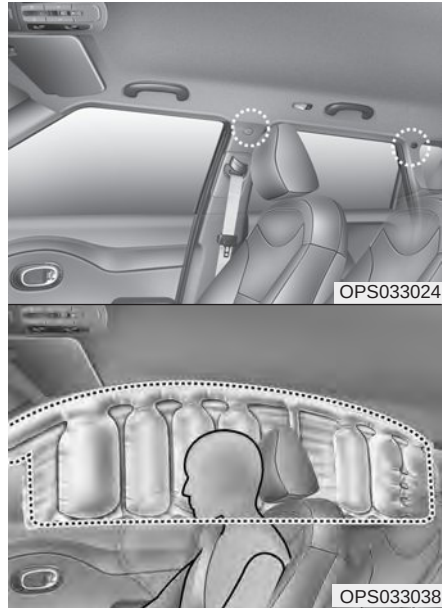
Do not install any accessories including seat covers, on the side or near the side impact air bag as this may affect the deployment of the side air bags.

- If seat or seat cover is damaged, have the vehicle checked and repaired by an authorized Kia dealer. Inform the dealer that your vehicle is equipped with side air bags and an occupant detection system.

⚠ WARNING - Flying objects

Do not place any objects (an umbrella, bag, etc.) between the front door and the front seat. Such objects may become dangerous projectiles if the side airbag inflates.

Curtain air bag



❊ 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 front and rear doors.

They are designed to help protect occupants in certain side impacts and to help prevent them from ejecting out of the vehicle as a result of a rollover, especially when the seatbelts are also in use. The curtain air bags are designed to deploy during certain side impact collisions, depending on the crash severity, angle, speed and point of impact. The side and/or curtain air bags do not only deploy on the side of the impact but also on the opposite side. Also, the curtain air bags on both sides of the vehicle will deploy in certain rollover situations. The curtain air bags are not designed to deploy in all side impact or rollover situations. Do not allow the passengers to lean their heads or bodies against the 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 impact and/or curtain air bags.

✻ NOTICE

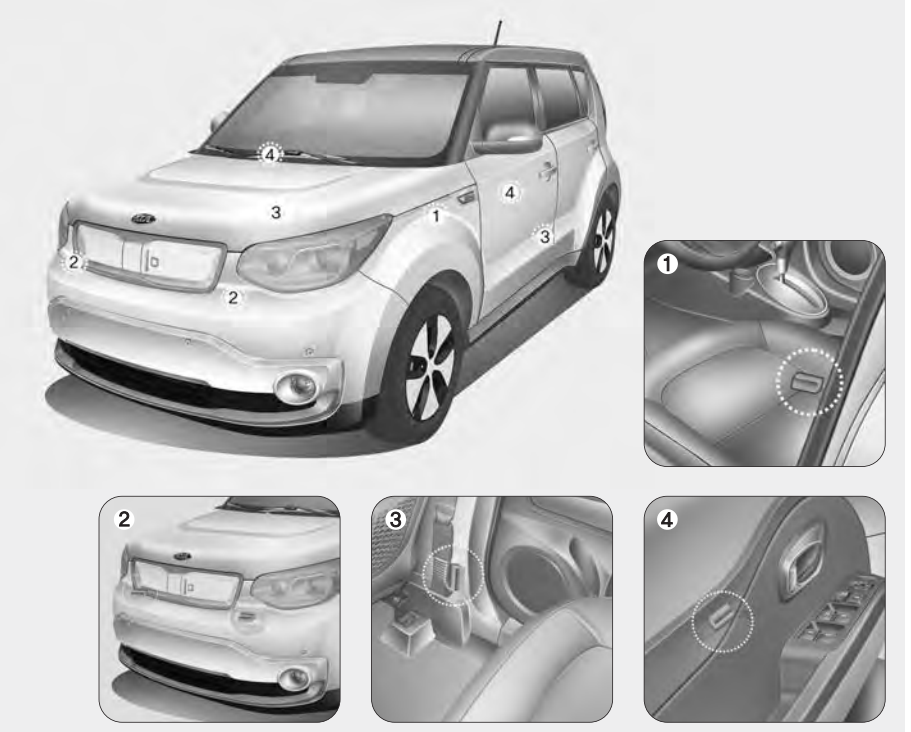
Never try to open or repair any components of the side and curtain air bag system. This should only be done by an authorized Kia dealer.

Why didn't my air bag go off in a collision? (Inflation and non-inflation 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 collision sensors



OPSE034025/OPSE034026/OPSE034027/OPS033028/OPS033029

(1) SRS control module/Rollover sensor
(2) Front impact sensor
(3) Side impact sensor
(4) Side pressure sensor

⚠ WARNING - Air bag sensors

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

  This may cause unexpected air bag deployment, which could result in serious personal injury or death.
- **If the installation location or angle of the sensors is altered in any way, the air bags may deploy when they should not or they may not deploy when they should.**

  Therefore, do not try to perform maintenance on or around the air bag sensors. Have the vehicle checked and repaired by an authorized Kia dealer.

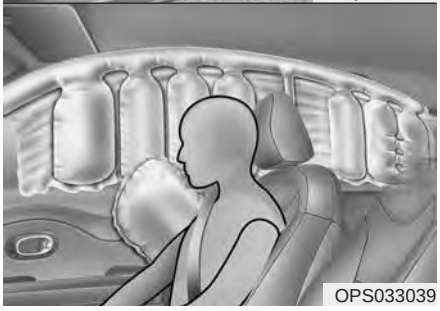
- Problems may arise if the sensor installation angles are changed due to the deformation of the front bumper, front end module, body or front doors and/or B pillar where side collision sensors are installed. Have the vehicle checked and repaired by an authorized Kia dealer.
- Installing bumper guards (or side step or running board) or replacing a bumper (or front door module) with non-genuine parts may adversely affect your vehicle's collision and air bag deployment performance.

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.

OVQ036018N


OPS033039

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

Side and/or curtain air bags

Side air bags (side and/or 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.

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

Although the front air bags (driver's and front passenger's air bags) are designed to inflate in frontal collisions, they also may inflate in other types of collisions if the front impact sensors detect a sufficient frontal force in another type of impact. Side and curtain air bags are designed to inflate in certain side impact collisions. They may inflate in other type of collisions where a side force is detected by the sensors. Side air bag and/or curtain air bags may also inflate where rollover sensors indicate the possibility of a rollover occurring (even if none actually occurs) or in other situations, incluiding when the vehicle is tilted while being towed. Even where side and/or curtain air bags would not provide impact protection in a rollover, however, they will deploy to prevent ejection of occupants, especially those who are restrained with seat belts.

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

Air bag non-inflation conditions

1VQA2086

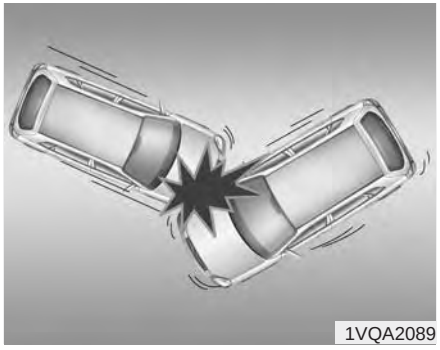
- In certain low-speed collisions the air bags may not deploy. The air bags are designed not to deploy in such cases because they may not provide benefits beyond the protection of the seat belts in such collisions.

OUN036087

- 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.

OVQ036018N

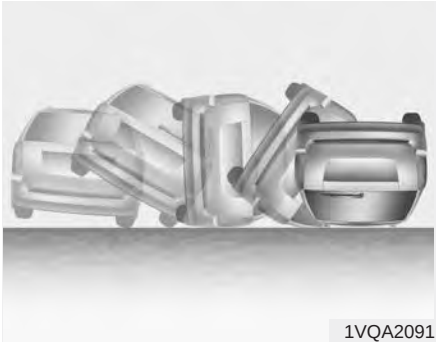
- Front air bags may not inflate in side impact collisions, because occupants move to the direction of the collision, and thus in side impacts, frontal air bag deployment would not provide additional occupant protection.


1VQA2089

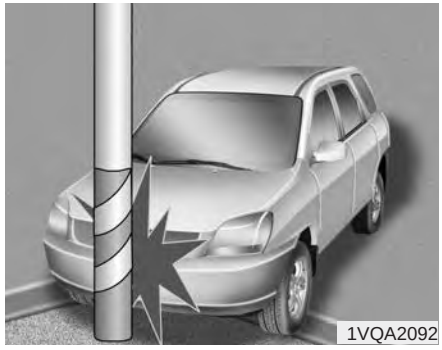
- In an angled collision, the force of impact may direct the occupants in a direction where the air bags would not be able to provide any additional benefit, and thus the sensors may not deploy any air bags.

1VQA2090

- 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.


1VQA2091

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



- 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 maintenance-free 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 your vehicle immediately inspected by an authorized Kia dealer.

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

⚠ WARNING - Tampering with SRS

Do not tamper with or disconnect SRS wiring, or other components of the SRS system. Doing so could result in the accidental inflation of the air bags or by rendering the SRS inoperative.

⚠ WARNING - Towing Vehicle

Always have the ignition off when your vehicle is being towed. The side air bags may inflate if the vehicle is tilted such as when being towed because of the rollover sensors in the vehicle.

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

Air bag warning labels, some required by the Canada Motor Vehicle Safety Standards (CMVSS), are attached to the sunvisor to alert the driver and passengers of potential risks of the air bag system.

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SMART KEY

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, this number will enable an authorized Kia dealer to duplicate the keys easily. 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.

⚠ WARNING - Smart key

Never leave the smart key in your vehicle with unsupervised children. Leaving children unattended in a vehicle with a smart key is dangerous. Children copy adults and they could press the start button. The 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 death. result in serious bodily injury or death.

Smart key function

OXMA043316

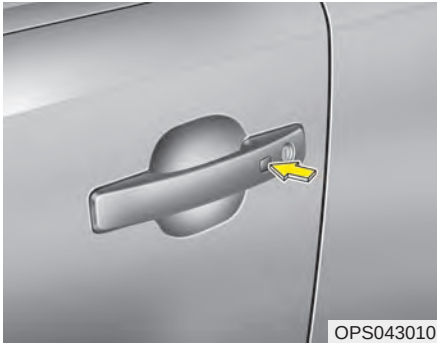
To remove the mechanical key, press and hold the release button(1) and remove the mechanical key (2).

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

With a smart key, you can lock or unlock a door (and Tailgate) and start the vehicle.

Refer to the following for more details.

Door Lock


OPS043010

Using the door handle button

1. Carry the smart key.
2. Close all doors, hood and tailgate.
3. Press the button of the outside door handle.
4. The hazard warning lights will blink and the chime will sound once.
5. Make sure that doors are locked by pulling the outside door handle.

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

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

- The smart key is in the vehicle.
- The POWER button is in ON position.
- Any door except the tailgate is open.

OXMA043316/Q

Using the button on the smart key

1 Close all doors, hood and tailgate.

2. Press the lock button(1).
3. The hazard warning lights will blink and the chime will sound once.
4. Make sure that doors are locked by pulling the outside door handle.

Unlocking

Using the door handle button

1. Carry the smart key.
2. Press the button of the driver's outside door handle.
3. The driver's door will unlock. The hazard warning lights will blink and the chime will sound two times.
4. Press the button twice within 4 seconds and all doors and the tailgate will unlock and the hazard warning lights will blink and the chime will sound two times.

- The button will only operate when the smart key is within 0.7~1m (28~40 in.) from the outside door handle.
- When the smart key is recognized in the area of 0.7~1m (28~40 in.) from the front outside door handle, other people can also open the doors.
- After unlocking the driver's door or all doors, the door(s) will lock automatically unless the door is opened.

Using the button on the smart key

1. Press the unlock button(2) of the smart key.
2. The driver's door will unlock. The hazard warning lights will blink and the chime will sound two times.
3. Press the unlock button(2) twice within 4 seconds and all doors and the tailgate will unlock. The hazard warning lights will blink and the chime will sound two times.

✻ NOTICE

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

✻ NOTICE

You can activate or deactivate the Two Turn Unlock function. Refer to "User settings" in this chapter.

Tailgate unlocking

Using the tailgate handle button

1. Carry the smart key.
2. Press the tailgate handle button.
3. When all doors are locked, the hazard warning lights will blink two times.

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

If you are within 0.7~1 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.

Using the button on the smart key

1. Press the tailgate unlock button(3) for more than 1 second.
2. When all doors are locked, the hazard warning lights will blink two times.

Panic

1. Press the panic button(4) for more than 1 second.
2. The horn sounds and hazard warning light flash for about 30 seconds.

Start-up

You can start the vehicle without inserting the key. For detailed information refer to the “POWER button” in chapter 5.

Loss of the smart key

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

If you happen to lose your smart key, you will not be able to start the vehicle. You should immediately take the vehicle and remaining key to your authorized Kia dealer(tow the vehicle, if necessary) to protect it from potential theft.

Smart key precautions

- The smart key will not work if any of the following occur:
  - The smart key is close to a radio transmitter such as a radio station or an airport which can interfere with normal operation of the 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 correctly, open and close the door with the mechanical key and contact an authorized Kia dealer.
- 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 a 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 as it can become damaged and not function properly.

✻ NOTICE

If the smart key is inoperative due to exposure to water or liquids, it will not be covered by your manufacturer's vehicle warranty.

Smart key immobilizer system

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

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

With the immobilizer system, whenever you turn the POWER button to the ON position by pressing the button while carrying the smart key, it checks and determines and verifies if the smart key is valid or not.

If the key is determined to be valid, the vehicle will start.

If the key is determined to be invalid, the vehicle will not start.

To deactivate the immobilizer system:

Turn the POWER button to the ON position by pressing the button while carrying the smart key.

To activate the immobilizer system:

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

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

Do not put metal accessories near the smart key.

The vehicle may not start because the metal accessories may interrupt the transponder signal from transmitting normally.

✻ NOTICE

If you need additional keys or lose your keys, contact an authorized Kia dealer.

⚠ CAUTION - Immobilizer damage

Do not expose your immobilizer system to moisture, static electricity and rough handling. This may damage your immobilizer.

⚠ CAUTION - Immobilizer alterations

Do not change, alter or adjust the immobilizer system because it could cause the immobilizer system to malfunction.

This device complies with Industry Canada licence-exempt RSS standard(s).

Operation is subject to the following two conditions:

(1) This device may not cause interference, and

(2) This device must accept any interference, including interference that may cause undesired operation of the device.

✻ NOTICE

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

OPS043002

A smart key battery should last for several years, but if the smart key is not working properly, try replacing the battery with a new one. If you are unsure how to use your smart key or replace the battery, contact an authorized Kia dealer.

1. Remove the mechanical key.
2. Pry open the rear cover.
3. Replace the battery with a new battery (CR2032). When replacing the battery, make sure the battery position.
4. Install the battery in the reverse order of removal.

- The smart key 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, contact an authorized Kia dealer.
- Using the wrong battery can cause the smart key to malfunction. Be sure to use the correct battery.
- To avoid damaging the 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.

⚠ CAUTION - Smart key damage

Do not drop, get wet or expose the smart key to heat or sunlight, or it will be damaged.

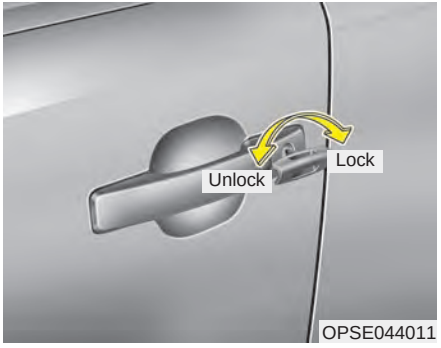
⚠ IC WARNING

This device complies with Industry Canada licence-exempt RSS standard(s).

Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

DOOR LOCKS

Operating door locks from outside the vehicle

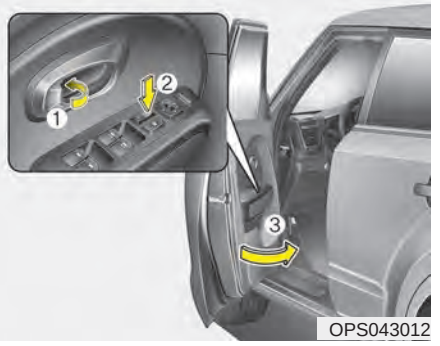


OPSE044011

- Turn the key clockwise to lock and counterclockwise to unlock.
- If you lock the driver's door with a key
  - only the driver's door will lock.
- From the driver's door
  - turn the key to the left once to unlock the driver's door.
- Doors can also be locked and unlocked with the smart key.
- Once the doors are unlocked, they may be opened by pulling the door handle.
- When closing the door, push the door by hand. Make sure the doors are closed securely.

✻ NOTICE

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



OPS043012

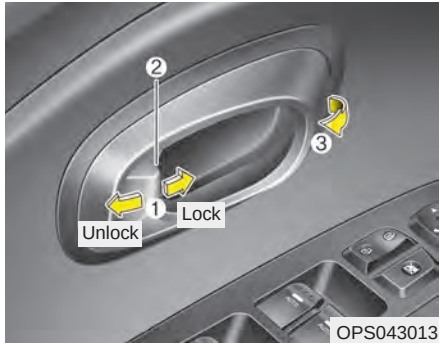
- To lock a door without the key, push the inside door lock button (1) or central door lock switch (2) to the “Lock” position and close the door (3).
- If you lock the door with the central door lock switch (2), all vehicle doors will lock automatically.

✻ NOTICE

Always carry the smart key after the vehicle is turned off, engage the parking brake, close all windows and lock all doors when leaving your vehicle unattended.

Operating door locks from inside the vehicle

With the door lock button



OPS043013

- To unlock a door, push the door lock button (1) to the “Unlock” position. The red mark (2) on the button will be visible.
- To lock a door, push the door lock button (1) to the “Lock” position. If the door is locked properly, the red mark (2) on the door lock button will not be visible.
- To open a door, pull the door handle (3) outward.
- If the inner door handle of the driver’s (or front passenger’s) door is pulled when the door lock button is in the lock position, the button will unlock and the door will open.
- Front doors cannot be locked if the smart key is in the vehicle and any front door is opened.

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.

With central door lock switch

OPS043014

OPS043015

Operate by pressing the central door lock switch.

- When pressing the front portion (1) of the switch, all vehicle doors will lock.
- When pressing the rear portion (2) of the switch, all vehicle doors will unlock.
- If the vehicle is in the ready ( ) mode and any front door is opened, the doors will not lock even though the front portion (1) of the central door lock switch is pressed.

⚠ WARNING - Doors

The doors should always be fully closed and locked while the vehicle is in motion to prevent accidental opening of the door.

⚠ WARNING - Unattended children/animals

Never leave children or animals unattended in your vehicle. An enclosed vehicle can become extremely hot, causing death or severe injury to unattended children or animals who cannot escape the vehicle.

Impact sensing door unlock system

In the event of air bag deployment resulting from a vehicle impact, all doors will automatically unlock.

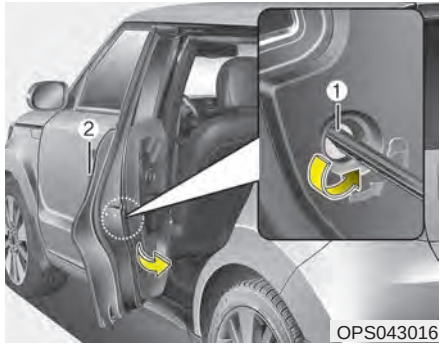
Auto door lock/unlock feature

You can activate or deactivate the auto door lock/unlock features in the vehicle. Refer to "User settings" in this chapter.

Speed sensing door lock system

All doors will be automatically locked after the vehicle speed exceeds 15 km/h (9.3 mph).

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. Push the child safety lock located on the rear edge of the door to the lock (🔒) position. When the child safety lock is in the lock position, the rear door will not open even when the inner door handle 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 (1) until the rear door child safety lock is unlocked.

⚠ WARNING - Rear door locks

Use the rear door safety locks whenever children are in the vehicle. If a child accidently opens the rear doors while the vehicle is motion, he can fall out.

TAILGATE

Opening the tailgate

OPSE044017

- The tailgate is locked or unlocked when all doors are locked or unlocked with the key, smart key or central door lock switch.
- If unlocked, the tailgate can be opened by pressing the handle switch and then pulling the handle up.
- Only the tailgate is unlocked if the tailgate unlock button on the smart key is pressed. Once the tailgate is opened and then closed, the tailgate is locked automatically.

✻ NOTICE

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

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

⚠ CAUTION - Tailgate lift

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

Closing the tailgate

OPSE044018

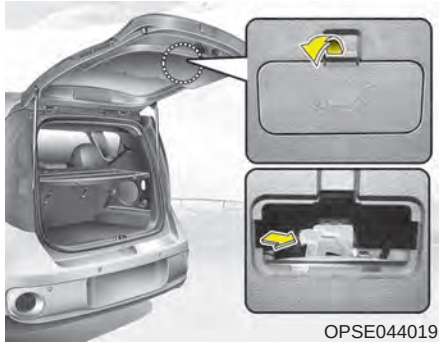
To close the tailgate, lower and push down the tailgate firmly. Make sure that the tailgate is securely latched.

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

⚠ WARNING - Rear cargo area

Occupants should never ride in the rear cargo area where no restraints are available. Occupants should always be properly restrained.

Emergency tailgate safety release

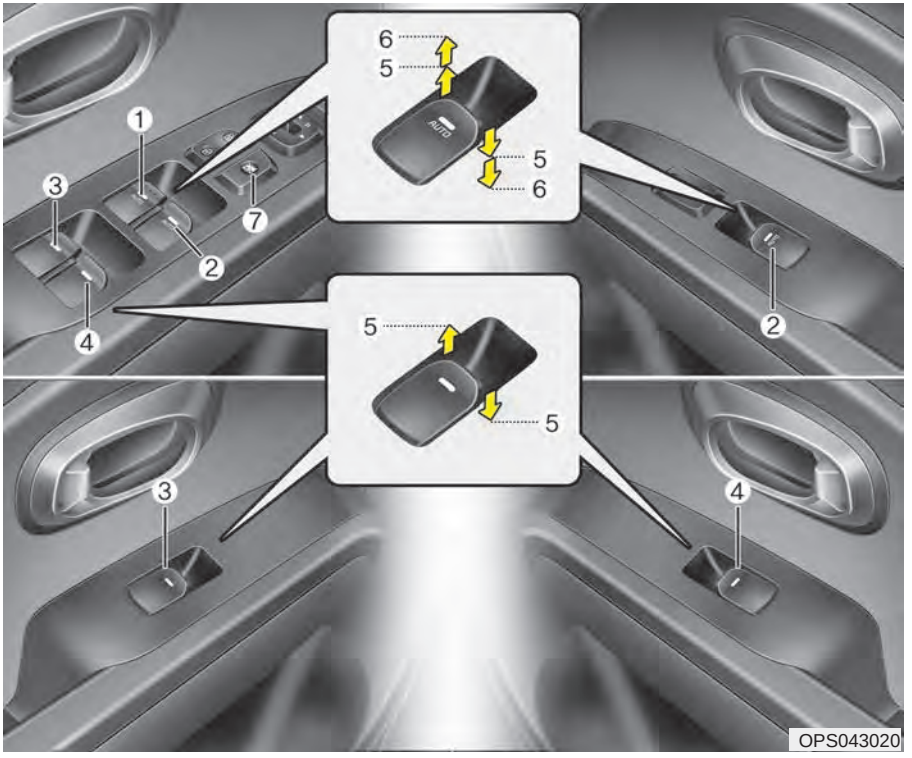


Your vehicle is equipped with an emergency tailgate safety release lever located on the bottom of the tailgate. When someone is inadvertently locked in the cargo area, the tailgate can be opened by pushing the release lever and pushing open the tailgate.

⚠ WARNING

- **No one should be allowed to occupy the cargo area of the vehicle at any time. The cargo area is a very dangerous location in the event of a crash.**
- **Use the release lever for emergencies only. Use with extreme caution, especially while the vehicle is in motion.**

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

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

Power windows

The POWER button 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 button which can block the operation of the rear passenger windows. The power windows can be operated for approximately 30 seconds after the vehicle turned off or turned to the ACC position. However, if the front doors are opened, the power windows cannot be operated even within the 30 second period.

✻ 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.

Window opening and closing

OPS043021

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).

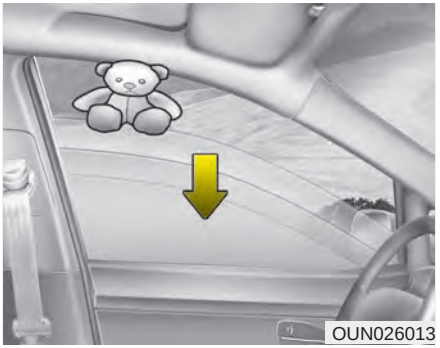
Auto up/down window (for driver's window)

OPS043022

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

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

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


OUN026013

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.

The distance may vary based on the size or position of the window. 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.

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.

⚠ 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.

Power window lock button

OPS043023

- The driver can disable the power window switches on the passenger doors by pressing the power window lock button located on the driver's door to the LOCK position (pressed).

- **When the power window lock switch is pressed :**
  - The driver's master control can operate all the power windows.
  - The front passenger's control can operate the front passenger's power window.
  - The rear passenger's control can-not operate the rear passenger's power window.

⚠ CAUTION - Opening / closing Window

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.

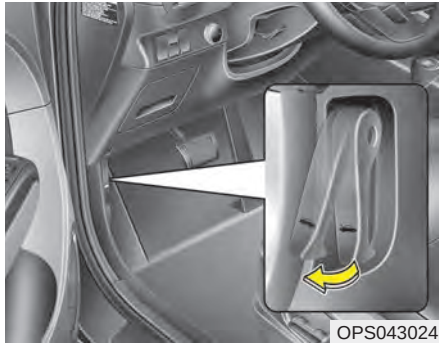
Always double check to make sure all arms, hands, head and other obstructions are safely out of the way before closing a window.

⚠ WARNING - Power windows

Do not allow children to play with the power windows. Keep the power window lock switch (on the driver's door) in the LOCK (pressed) position.

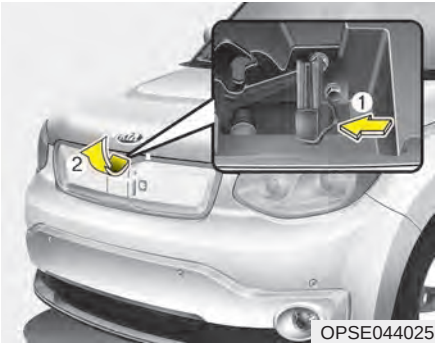
HOOD

Opening the hood


OPS043024

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

Open the hood after turning off the vehicle on a flat surface, shifting the shift lever to the P (Park) position and setting the parking brake.



OPSE044025

2. Go to the front of the vehicle, raise the hood slightly, pull the secondary latch (1) inside of the hood center and lift the hood (2).
3. Raise the hood. It will completely rise by itself after it has been raised about halfway.

Closing the hood

1. Before closing the hood, check the following:
   - All filler caps in the motor compartment must be correctly installed.
2. Lower the hood halfway and push down to securely lock in place.

⚠ 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 severe personal injury.

⚠ WARNING - Fire risk

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

⚠ WARNING - Unsecured hood

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

STEERING WHEEL

Electric power steering (EPS)

The power steering uses a motor to assist you in steering the vehicle. If the vehicle is in not the ready ( ) mode or if the power steering system becomes inoperative, the vehicle may still be steered, but it will require increased steering effort.

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

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

Should you notice any change in the effort required to steer during normal vehicle operation, have the power steering checked by an authorized Kia dealer.

- If the Electric Power Steering System does not operate normally, the warning light will illuminate on the instrument cluster. The steering wheel may require increased steering effort. Take your vehicle to an authorized Kia dealer and have the vehicle checked as soon as possible.
- When you operate the steering wheel in low temperature, noise may occur. If temperature rises, the noise will likely disappear. This is a normal condition.
- When the vehicle is stationary, when the steering wheel is turned all the way to the left or right continuously, the steering wheel becomes harder to turn. The power assist is limited to protect the motor from overheating.

  As time passes, the steering wheel return to its normal condition.

✻ NOTICE

The following symptoms may occur during normal vehicle operation:

- **The EPS warning light does not illuminate.**
- **The steering gets heavy immediately after turning the POWER button on. This happens as the system performs the EPS system diagnostics. When the diagnostics are completed, the steering wheel will return to its normal condition.**
- **A click noise may be heard from the EPS relay after the POWER button is turned to the ON or OFF position.**
- **A 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. Take your vehicle to an authorized Kia dealer and have the vehicle checked as soon as possible.**

(Continued)

(Continued)

- **When you operate the steering wheel in low temperature, abnormal noise may occur. If temperature rises, the noise will likely disappear. This is a normal condition.**
- **When the charging system warning light comes on due to the low voltage (When the alternator or battery) does not operate normally or it malfunctions), the steering wheel may require increased steering effort.**

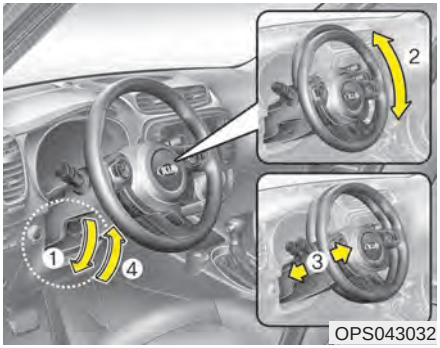
Tilt and telescopic steering

Tilt and telescopic steering 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.

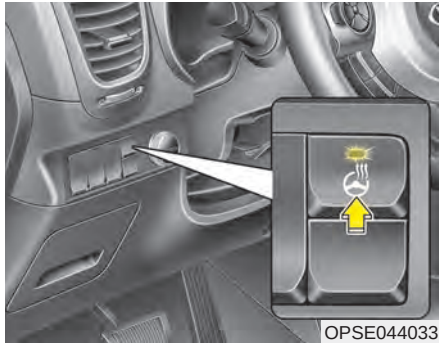
⚠ WARNING - Steering wheel adjustment

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



To change the steering wheel angle, pull down the lock-release lever (1), adjust the steering wheel to the desired angle (2) and height (3, if equipped) then pull up the lock-release lever to lock (4) the steering wheel in place. Be sure to adjust the steering wheel to the desired position before driving.

Heated steering wheel


OPSE044033

With the POWER button in the ON position, pressing the heated steering wheel button warms the steering wheel. The indicator on the button will illuminate.

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

✻ NOTICE

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

⚠ 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

OPS043034

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.

FLEX STEER

OPS043036

The FLEX STEER controls steering effort based upon as driver's preference or road condition.

You can select the desired steering mode by pressing the FLEX STEER button.

When the steering mode button is pressed, the selected steering mode will appear on the instrument cluster.

If the steering mode button is pressed within 4 seconds, the steering mode will change as shown above.

If the steering wheel mode button is not pressed for about 4 seconds, the LCD display will change to the previous screen.

Normal mode

OPSE044129

The normal mode offers medium steering effort.

Sport mode

OPSE044130

The steering wheel becomes heavier. The sport mode is usually used when driving on the highway.

Comfort mode

OPSE044131L

The steering wheel becomes lighter. The comfort mode is usually used when driving in the city or when parking the vehicle.

- For your safety, if you press the steering mode button while operating the steering wheel, but the steering effort will not change immediately. After operating the steering wheel, the steering effort will change automatically to the selected mode.
- Use caution when changing the steering mode while driving.
- When the electronic power steering is not operating properly, the flex steering wheel will not work.

MIRRORS

Inside rearview mirror

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

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

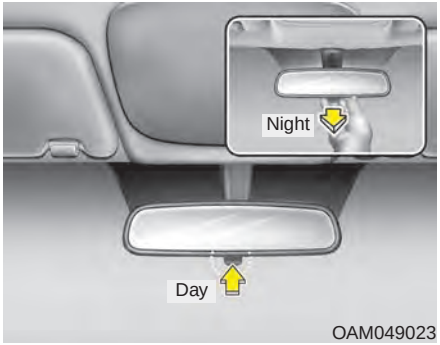
⚠ WARNING - Mirror adjustment

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

⚠ WARNING

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

Day/night rearview mirror (if equipped)



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

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

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

Electric chromic mirror (ECM) (if equipped)

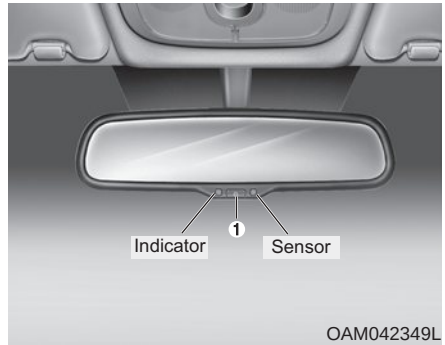
The electric rearview mirror automatically controls the glare from the headlights of the vehicles behind you in nighttime or low light driving conditions. The sensor mounted in the mirror senses the light level around the vehicle, and automatically controls the headlight glare from the vehicles behind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

When the vehicle is in the ready ( ) mode the glare is automatically controlled by the sensor mounted in the rearview 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 - Cleaning mirror

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 rearview mirror:

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

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

Outside rearview mirror

Be sure to adjust the mirror angles before driving.

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

The right outside rearview mirror is convex. Objects seen in the mirror are closer than they appear.

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

⚠ CAUTION - Rearview mirror

Do not scrape ice off the mirror face; this may damage the surface of the glass. If ice should restrict the 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.

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

⚠ WARNING - Mirror adjustment

Do not adjust or fold the outside rearview mirrors while the vehicle is moving. This could result in loss of control.

Remote control

OPS043035

Electric type

The electric remote control mirror switch allows you to adjust the position of the left and right outside rearview mirrors. To adjust the position of either mirror the POWER button should be in the ACC or ON position. Move the switch (1) to R or L 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.

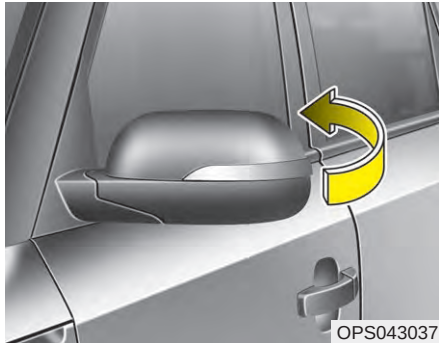
After the adjustment, put the switch into the neutral (center) position to prevent inadvertent adjustment.

⚠ CAUTION - Outside mirror

- ***The mirrors stop moving when they reach the maximum adjusting angles, but the motor continues to operate while the switch is pressed.***

  Do not press the switch longer than necessary, the motor may be damaged.
- ***Do not attempt to adjust the outside rearview mirror by hand. Doing so may damage the parts.***

Folding the outside rearview mirror



Manual type

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

Electric type

The outside rearview mirror can be folded or unfolded by pressing the switch as below.

Left (1) : The mirror will unfold.

Right (2) : The mirror will fold.

Center (AUTO, 3) :

The mirror will fold or unfold automatically as follows:

- Without smart key system
  - The mirror will fold or unfold when the door is locked or unlocked by the transmitter.
- With smart key system
  - The mirror will fold or unfold when the door is locked or unlocked by the smart key.
  - The mirror will fold or unfold when the door is locked or unlocked by the button on the outside door handle.
  - The mirror will unfold when you approach the vehicle (all doors closed and locked) with a smart key in possession.

⚠ **CAUTION - Electric type outside rearview mirror**

The electric type outside rearview mirror operates even though the POWER button is in the OFF position. However, to prevent unnecessary battery discharge, do not adjust the mirrors longer than necessary while the vehicle is in not the ready ( ) mode. In case it is an electric type outside rearview mirror, don't fold it by hand. It could cause motor failure.

Outside mirror defroster

OPS043152

The outside mirror defroster will operate at the same time you turn on the rear window defroster.

INSTRUMENT CLUSTER

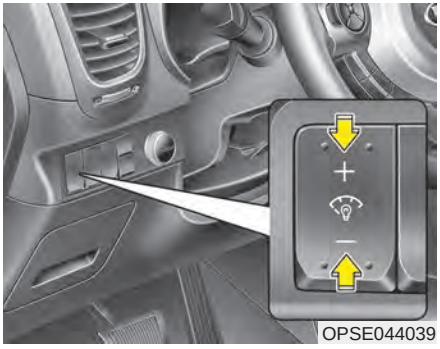
1. Motor operation gauge
2. Speedometer
3. Range meter
4. Warning and indicator lights
5. State of charge gauge
6. LCD display

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

OPSE044300C

Instrument Cluster Control

Adjusting Instrument Cluster Illumination



OPSE044039

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

OPSE044117L

- 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 Display Control

OPS043040

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

(1) 🗐 : MODE button for changing modes or SELECT button for setting the selected item

(2) ▽ : MOVE button for changing items or RESET button for resetting the selected item

❊ For the LCD modes, refer to “LCD Display” in this chapter.

Gauges

Speedometer

OPSE044101

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

Motor operation gauge

OPSE044102

It shows the energy consumption rate of the vehicle and the charge/discharge status of the regenerative brakes.

- **POWER** : It shows the energy consumption rate of the vehicle when driving uphill or accelerating. The more electric energy is used, the higher the gauge level.
- **ECO GUIDE** : It shows the energy consumption rate during normal driving condition.
- **CHARGE** : It shows the charging status of the battery when it is being charged by the regenerative brakes (decelerating or driving on a downhill road). The more electric energy is charged, the lower the gauge level.

State of charge (SOC) gauge for high voltage battery

OPSE044103

It shows the charging status of the high voltage battery.

"MIN" position on the indicator indicates that there is not enough energy in the high voltage battery. "MAX" position indicates that the driving battery is fully charged.

When driving on highways or motorways, make sure to check in advance if the driving battery is charged enough.

OPSE044104

When there are 4 gauge bars (near the "MIN" area) on the high voltage charge indicator, the warning lamp turns ON to alert you of the battery level.

When the warning lamp turns ON, the vehicle can drive an additional 20~40 km (12.4~24.8 miles) (depending on the driving speed, heater/air conditioner, weather, driving style, and other factors). Charging is required.

When there are 1-2 gauge bars left for the high voltage battery, the vehicle speed is limited and then eventually the vehicle will be turned OFF. Charge the vehicle immediately.

Odometer

OPSE043118C

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 ~ 999999 kilometers or miles.

Outside Temperature Gauge

OPSE044202

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.

The temperature unit can be changed by using the "User Settings" mode of the LCD display

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

Reduction gear shift indicator

OPSE044125L

This indicator displays which reduction gear shift lever is selected.

- Park :P
- Reverse : R
- Neutral : N
- Drive :D
- Regenerate brake : B

❊ For the detailed explanation of each shift range, refer to "Reduction Gear" in chapter 5.

LCD DISPLAY

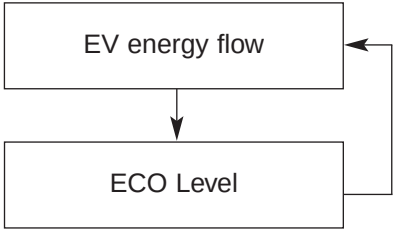
LCD Modes

Modes	Symbol	Explanation
EV information		This mode displays EV system energy flow and ECO level. For more details, refer to “EV information mode" in this chapter.
Trip Computer		This mode displays driving information like the tripmeter, energy consumption, and so on. For more details, refer to “Trip Computer” in this chapter.
A/V		This mode displays the state of the A/V system.
Service		This mode informs of service interval (mileage or days) and warning messages related to TPMS and so on.
Master warning		
User Settings		On this mode, you can change settings of the doors, lamps, and so on.

❊ For controlling the LCD modes, refer to "LCD Display Control" in this chapter.

EV information mode

EV information mode shows EV energy flow and ECO level.



To change the EV information mode, press the ▽ (MOVE) button

EV energy flow

OPSE044240L

EV energy flow notifies the drivers of energy flow in operating modes. Following modes show drivers the current operating condition.

- EV Propulsion :

  Energy flows from high voltage battery to wheel when the vehicle is driven by motor

- Regeneration :

  Energy flows from wheel to high voltage battery when you release the accelerator pedal or press the brake pedal.

ECO Level

OPSE044241L

When the vehicle is started, the ECO Level display will indicate level. If you drive economically, the ECO Level will increase. However, if you do not drive economically, the ECO Level will decrease.

A/V Mode

OPSE044242

This mode displays the state of the A/V system.

Service Mode

Service Interval

OPSE044266L

Service interval

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

If the remaining mileage or time reaches 1,500 km (1,500 mi.) or 30 days, "Service Interval" message is displayed for several seconds each time you set the POWER button to the ON position.

OPSE044274L

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 POWER button to the ON position (The mileage and time changes to "---").

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

- Press the RESET button ▽ for more than 1 second.

OTF044192L

Service interval OFF

If the service interval is not set, “Service interval OFF” message is displayed on the LCD display.

✻ NOTICE

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.

Master Warning Mode

- This warning light informs the driver the following situations
  - TPMS
  - Service reminder
  - Low washer fluid

The Master Warning Light illuminates when more than one of the above warning situations occur. At this time, the LCD Modes Icon will change from (🔧) to (⚠).

If the warning situation is solved, the LCD Modes Icon will be changed back to its previous icon (🔧).

User Settings Mode

Description

OPSE044212L

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

Door

Auto Lock

- Off:

  The auto door lock operation will be deactivated.
- Enable on speed:

  All doors will be automatically locked when the vehicle speed exceeds 15km/h (9.3mph).
- Enable on shift:

  All doors will be automatically locked if the reduction gear shift lever is shifted from the P (Park) position to the R (Reverse), N (Neutral), or D (Drive) position.

Auto Unlock

- Off:

  The auto door unlock operation will be canceled.
- Vehicle off:

  All doors will be automatically unlocked when the POWER button is set to the OFF position.
- On shift P:

  All doors will be automatically unlocked if the reduction gear shift lever is shifted to the P (Park) position.
- Driver Door Unlock:

  All doors will be automatically unlocked if the driver's door is unlocked.

Two Press Unlock

- Off:

  The two press unlock function will be deactivated. Therefore, all doors will unlock if the door is unlocked.
- On:

  The driver’s door will unlock if the door is unlocked. When the door is unlocked again within 4 seconds, all doors will unlock.

Horn Feedback

- Off:

  The Horn feedback operation will be deactivated.
- On:

  After locking the door by pressing the lock button on the transmitter, if you press the lock button again within 4 seconds, the warning sound will operate once to indicate that all doors are locked.

Lamp

One Touch Turn Lamp

If this item is checked, the lane change signals will blink 3, 5 or 7 times when the turn signal lever is moved slightly.

Head Lamp Delay (if equipped)

If this item is checked, the headlamp delay function will be activated.

Settings

Language

Choose the language you prefer within the LCD.

Temperature Unit

Convert the temperature unit from °C to °F or from °F to °C.

Welcome Sound

If this item is checked, the welcome sound function will be activated.

Energy Consumption Auto Reset

• Auto Reset :

The average energy consumption will reset automatically when charge the high voltage battery more than 10%

• Manual Reset:

The average energy consumption will not reset automatically when charge the high voltage battery more than 10%

Service Interval

OPSE044136L

On this mode, you can activate the service interval function with mileage (mi. or km) and period (months).

Warning Messages

Low Battery

OPSE044213L

When the high voltage battery level reaches below 20%, this warning message illuminates.

In this case, the warning lamp on the instrument cluster (🔋) turns ON simultaneously.

Charge the high voltage battery immediately.

Low Battery. Charge immediately

OPSE044214L

When the high voltage battery level reaches below 10%, this warning message illuminates .

In this case, the warning lamp on the instrument cluster (🔋) turns ON simultaneously and the distance to empty gauge will be displayed as “---”.

Charge the high voltage battery immediately.

Charge immediately. Power limited

OPSE044215L

When the high voltage battery level reaches below 7%, this warning message illuminates.

In this case, the warning lamp on the instrument cluster ( ) and the power down warning lamp ( ) turn ON simultaneously and the distance to empty gauge will be displayed as "---".

The vehicle's power will be reduced to minimize the energy consumption of the high voltage battery. Charge the battery immediately.

Power limited

OPSE044264L

In the following cases, this warning message illuminates when the vehicle's power is limited for the safety.

- When the high voltage battery is below a certain level, or voltage is decreasing.
- When the temperature of the motor or high voltage battery is too high or too low.
- When there is a problem with the cooling system or a failure that may interrupt normal driving.

When this warning message is displayed, do not accelerate or start the vehicle suddenly.

Charge the battery immediately when the high voltage battery level is not enough.

Unplug vehicle to start

OPSE044223L

When the vehicle is started while the charging connector is connected, this warning message illuminates.

Remove the charging connector and start the vehicle.

Charging door open

OPSE044224L

When the vehicle is started while the charging door is opened, this warning message illuminates. Make sure to close the charging door after charging is complete.

Check electric vehicle system

OPSE044216L

This warning message illuminates when a failure related to EV control system occurs.

Refrain from driving when the warning message is displayed. In this case, have your vehicle inspected by an authorized Kia dealer.

Low Battery Temp. Power limited

OPSE044265L

This warning message illuminates to protect battery and electric vehicle system when the high voltage battery temperature is too low.

If this warning message is still illuminated even after the ambient temperature has increased, have your vehicle inspected by an authorized Kia dealer.

Battery Overheated! Stop vehicle

OPSE044219L

This warning message illuminates to protect battery and electric vehicle system when the high voltage battery temperature is too high.

Turn off the POWER button and stop the vehicle so that the battery temperature decreases.

If this warning message is still illuminated even after you have stopped the vehicle for a certain time, refrain from driving and have your vehicle inspected by an authorized Kia dealer.

Stop vehicle and check power supply

OPSE044220L

This warning message illuminates when a failure occurs in the power supply system.In this case, park the vehicle in a safe location and tow your vehicle to the nearest authorized Kia dealer and have the vehicle inspected.

Check brakes

OPSE044221L

This warning message illuminates when the brake performance is low or the regenerative brake does not work properly due to a failure in the brake system.In this case, it may take longer for the brake pedal to operate and the braking distance may become longer.

Refrain from driving when the warning message is displayed. In this case, have your vehicle inspected by an authorized Kia dealer as soon as possible.

Stop vehicle and check brakes

OPSE044222L

This warning message illuminates when a failure occurs in the brake system.In this case, park the vehicle in a safe location and tow your vehicle to the nearest authorized Kia dealer and have the vehicle inspected.

Shift to P position

OPSE044148L

- This warning message illuminates if you try to turn off the vehicle without the shift lever in P (Park) position.
- At this time, the POWER button turns to the ACC position (If you press the POWER button once more, it will turn to the ON position).

Low Key Battery

OPSE044142L

- This warning message illuminates if the battery of the smart key is discharged when the POWER button changes to the OFF position.

Press brake pedal to start vehicle

OPSE044152L

- This warning message illuminates if the POWER 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 vehicle.

Key not in vehicle

OPSE044138L

- This warning message illuminates if the smart key is not in the vehicle while the door is opened or closed with the POWER button in the ACC position or the vehicle is in the ready ( ) mode.
- It means that you should always have the smart key with you.

Key not detected

OPSE044140L

- This warning message illuminates if the smart key is not detected when you press the POWER button.

Press POWER button again

OPSE044144L

- This warning message illuminates if you can not operate the POWER button when there is a problem with the POWER button system.
- It means that you could start the engine by pressing the POWER button once more.
- If the warning illuminates each time you press the POWER button, have your vehicle inspected by an authorized Kia dealer.

Press POWER button with key

OPSE044146L

- This warning message illuminates if you press the POWER button while the warning message “Key not detected” is illuminating.
- At this time, the immobilizer indicator light blinks.

Check BRAKE SWITCH fuse

OPSE044157L

- This warning message illuminates if the brake switch fuse is disconnected.
- It means that you should replace the fuse with a new one. If that is not possible, you can start the engine by pressing the POWER button for 10 seconds in the ACC position.

Door Open

OPSE043121

- It means that any door is open.

Tailgate Open

OPSE043122

- It means that the tailgate is open.

Turn on FUSE SWITCH

OPSE044154L

- This warning message illuminates if the fuse switch on the fuse box is OFF.
- It means that you should turn the fuse switch on.

For more details, refer to “Fuses” in chapter 7.

Low Washer Fluid

OPSE044267L

- This warning message illuminates on the service reminder mode if the washer fluid level in the reservoir is nearly empty.
- It means that you should refill the washer fluid.

TRIP COMPUTER

Overview

Description

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 Vehicle Speed) resets if the battery is disconnected.

Trip Modes

Energy consumption
- Average energy consumption
- Instant energy consumption

↓

TRIP A
- Tripmeter [A]
- Average Vehicle Speed [A]
- Elapsed Time [A]

↓

TRIP B
- Tripmeter [B]
- Average Vehicle Speed [B]
- Elapsed Time [B]

To change the trip mode, press the MOVE button ▽ .

Energy consumption

OPSE044105L

Average energy consumption (1)

- The average energy consumption is calculated by the total driving distance and the high voltage battery consumption since the last average energy consumption reset.
  - Average energy consumption range : 0.0 ~ 99.9 miles/kwh
- The average energy consumption can be reset both manually and automatically.

Manual reset

To clear the average energy consumption manually, press the ▽ button (MOVE) on the steering wheel for more than 1 second when the average energy consumption is displayed.

Automatic reset

To make the average energy consumption be reset automatically whenever recharging, select the “Auto Reset” mode in User Settings menu of the LCD display (Refer to “LCD Display”).

Under “Auto Reset” mode, the average energy consumption will be cleared to zero (---) when the driving distance exceeds 0.19 mile (300m) after recharging more than 10%.

Instant energy consumption (2)

- This mode displays the instant energy consumption during the last few seconds when the vehicle speed is more than 10 km/h (6.2 MPH).
  - Instant energy consumption range : 0.0 ~ 8miles/kwh

Trip A/B

Tripmeter (1)

OPSE044127C

- The tripmeter is the total driving distance since the last tripmeter reset.
  - Distance range: 0.0 ~ 999.9 km or mi.
- To reset the tripmeter, press the RESET (▽) button on the steering wheel for more than 1 second when the tripmeter is displayed.

Average Vehicle Speed (2)

- The average vehicle speed is calculated by the total driving distance and driving time since the last average vehicle speed reset.
  - Speed range: 200 km/h or 160 MPH
- To reset the average vehicle speed, press the RESET (▽) button on the steering wheel for more than 1 second when the average vehicle speed is displayed.

✻ NOTICE

- **The average vehicle speed is not displayed if the driving distance is less than 50 meters (0.03 miles) or the driving time is less than 10 seconds since the POWER button is turned to ON.**
- **Even if the vehicle is not in motion, the average vehicle speed keeps going while the vehicle is in the ready ( ) mode.**

Elapsed Time (3)

- The elapsed time is the total driving time since the last elapsed time reset.
  - Time range (hh:mm): 00:00 ~ 99:59
- To reset the elapsed time, press the RESET (▽) button on the steering wheel for more than 1 second when the elapsed time is displayed.

✻ NOTICE

Even if the vehicle is not in motion, the elapsed time keeps going while the vehicle is in the ready ( ) mode.

One time driving information mode

OPSE044243L

This display shows trip distance (1), battery level(2), charging time status (3) and climate time status (4).

This information is displayed for a few seconds when you turn off the vehicle and then goes off automatically. The information provided is calculated according to each trip.

If the estimated distance is below 15km (9.3 mi.), and a recharging message will appear (5).

To set the charging time and/or climate time, refer to a separately supplied navigation manual for detailed information.

Range

OPSE044106C

On average, a vehicle can drive about 148km (93miles) when the high voltage battery is 100% charged.

Under certain circumstances where the air conditioner/heater is ON, the distance to empty is impacted, resulting in a possible distance range from 100~230km. (62~143mi). When using the heater during cold weather or driving at high speed, the high voltage battery consumes a lot more electricity. This may reduce the distance to empty significantly.

After "---" has been displayed, the vehicle can drive an additional 5~15km (3.1~9.3mi.) (depending on driving speed, heater/air conditioner, weather, driving style, and other factors).

Distance to empty that is displayed on the instrument cluster after completing a recharge may vary significantly depending on previous operating patterns.

When previous driving patterns include high speed driving, resulting in the driving battery using more electricity than usual, the estimated distance to empty is reduced. When the high voltage battery uses a little electricity in ECO mode, the estimated distance to empty increases.

Distance to empty may depend on many factors such as the charge amount of the high voltage battery, weather, temperature, durability of the battery, geographical features, and driving style.

Natural degradation may occur with the high voltage battery depending on the number of years the vehicle is used. This may reduce the distance to empty.

WARNING AND INDICATOR LIGHTS

Warning lights

✻ NOTICE - Warning lights

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

Service warning light

This warning light illuminates :

- Once you set the POWER button to the ON position.
  - It illuminates for approximately 3 seconds
- There is a failure with a sensor, actuator, or the electric compressor for the air conditioner related to the electric vehicle control system. When the warning light turns ON while driving, or does not turn OFF after vehicle has started, have your vehicle inspected by an authorized Kia dealer.

Power down warning light

This warning light illuminates :

- When the power is limited for the safety of the electric vehicle.
  - When the high voltage battery level is below a certain threshold, the voltage is decreasing, the temperature of the motor or driving battery is too high or too low, there is a failure in the cooling system, or a failure that is disrupting normal driving.

High voltage battery level warning light

This warning light illuminates :

- When the high voltage battery level is not enough.

  When the warning light turns ON, Charge the battery immediately.

Regenerative brake warning light

■ Red ■ Yellow

This warning light illuminates :

- The regenerative brake does not operate and the brake does not perform well. This causes the brake warning lamp (red) and regenerative brake warning lamp (yellow) to turn ON simultaneously. In this case, drive safely and have your vehicle inspected by an authorized Kia dealer.

  In this case, operation of the brake pedal may be more difficult than normal and the braking distance can increase.

Air bag Warning Light

This warning light illuminates:

- Once you set thePOWER 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 your vehicle inspected by an authorized Kia dealer.

Seat Belt Warning Light

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

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

Parking Brake & Brake Fluid Warning Light

This warning light illuminates:

- Once you set the POWER 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. Turn the vehicle off, check the brake fluid level immediately and add fluid as required (For more details, refer to “Brake Fluid” in chapter 7).

   Then check all brake components for fluid leaks. If any leaks in 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 your vehicle towed to an authorized Kia dealer and inspected.

Dual-diagonal braking system

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

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

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

If the brakes fail while you are driving, shift to B position for additional engine braking and stop the vehicle as soon as it is safe to do so.

⚠ WARNING - Parking Brake & Brake Fluid Warning Light

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

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

Anti-lock Brake System (ABS) Warning Light

This warning light illuminates:

- Once you set the POWER 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 your vehicle inspected by an authorized Kia dealer.

Electronic Brake force Distribution (EBD) System Warning Light

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

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

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

⚠ WARNING - Electronic Brake force Distribution (EBD) System Warning Light

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

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

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

✻ 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 trip-meter may not work. Also, the EPS Warning Light may illuminate and the steering effort may increase or decrease.
In this case, have your vehicle inspected by an authorized Kia dealer as soon as possible.

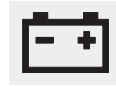
Electronic Power Steering (EPS) Warning Light

This warning light illuminates:

- Once you set the POWER button to the ON position.
  - It remains on until the vehicle is in the ready ( ) mode.
- When there is a malfunction with the EPS.

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

Charging System Warning Light (for 12-volt battery)



This warning light illuminates:

- When the 12-volt battery level is low or a failure occurs on the charging system such as LDC.
- If the warning light turns on while driving, move the vehicle to a safe location, turn off and turn on the vehicle again, and check if the warning light turns off. If the warning light remains on, In this case, have your vehicle inspected by an authorized Kia dealer.
- Even if the warning lamp turns off, have your vehicle inspected by an authorized Kia dealer.

  If you drive the vehicle while the warning light is on, vehicle speed may be limited and the 12-volt battery may be discharged.

❈ LDC : Low voltage DC-DC Converter.

Low Tire Pressure Warning Light

This warning light illuminates:

- Once you set the POWER 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.

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

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

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

⚠ WARNING
- Low tire pressure

- **Significantly low tire pressure makes the vehicle unstable and can contribute to loss of vehicle control and increased braking distances.**
- **Continued driving or low pressure tires will cause the tires to overheat and fail.**

- 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.

Door Ajar Warning Light

This warning light illuminates:

When a door is not closed securely.

Tailgate Open Warning Light

This warning light illuminates:

When the tailgate is not closed securely.

Washer Fluid Warning Light

This warning light illuminates:

- When the washer fluid level in the reservoir is nearly empty.

  In this case, you should refill the washer fluid.

Indicator Lights

Ready indicator light

This warning light illuminates :

When the vehicle is ready to drive.

- ON: Normal driving is available.
- OFF: Normal driving is not available, or a failure has occurred.
- Blinking: Emergency driving.

When ready indicator light is OFF or blinking, there is a failure. In this case, have your vehicle inspected by an authorized Kia dealer.

Charging indicator light

This warning light illuminates :

This indicator light shows the charging status of the high voltage battery.

When it is charging, the red light turns ON. When charging is complete, the green light turns ON.

Electronic Stability Control (ESC) Indicator Light

This indicator light illuminates:

- Once you set the POWER 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 your vehicle inspected by an authorized Kia dealer.

This indicator light blinks:

While the ESC is operating.

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

Electronic Stability Control (ESC) OFF Indicator Light

This indicator light illuminates:

- Once you set POWER button to the ON position.
  - It illuminates for approximately 3 seconds and then goes off.
- When you deactivate the ESC system by pressing the ESC OFF button.

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

ECOMINDER® indicator

Active ECO system

This indicator light illuminates:

- The active ECO system always remembers the previous status before the vehicle was turned off.
- When the Active ECO button is pressed the ECOMINDER® indicator (green) will illuminate to show that the Active ECO is operating.

  To turn off the Active ECO system, press the button again.

For more details, refer to "Active ECO systme" in the chapter 5 or "Electric Vehicle Guide".

Immobilizer Indicator Light

This indicator light illuminates for up to 30 seconds:

- When the vehicle detects the smart key in the vehicle properly while the POWER button is ACC or ON.
  - At this time, you can start the vehicle.
  - The indicator light goes off after the vehicle is in the ready ( ) mode.

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 vehicle.

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 POWER button is ON.

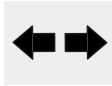
  In this case, have your vehicle inspected by an authorized Kia dealer.

This indicator light blinks:

- When the battery of the smart key is weak.
  - At this time, you can not start the vehicle. However, you can start the vehicle if you press the POWER button with the smart key. (For more details, refer to “Starting the vehicle” in chapter 5).
- When there is a malfunction with the immobilizer system.

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

Turn Signal Indicator Light



This indicator light blinks:

- When you turn the turn signal light on.

If any of the following occurs, there may be a malfunction with the turn signal system. In this case, have your vehicle inspected by an authorized Kia dealer.

- The indicator light does not blink but illuminates.
- The indicator light blinks more rapidly.
- The indicator light does not illuminate at all.

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.

Light ON Indicator Light

This indicator light illuminates:

- When the tail lights or headlights are on.

Front Fog Indicator Light (if equipped)

This indicator light illuminates:

- When the front fog lights are on.

Cruise Indicator Light

CRUISE

This indicator light illuminates:

- When the cruise control system is enabled.

For more details, refer to “Cruise Control System” in chapter 5.

Cruise SET Indicator Light

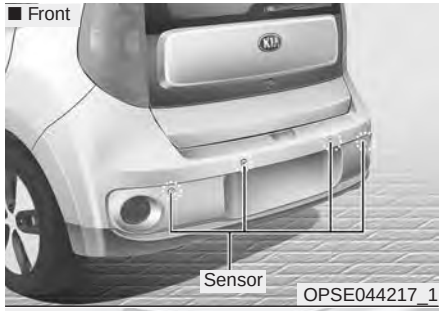
SET

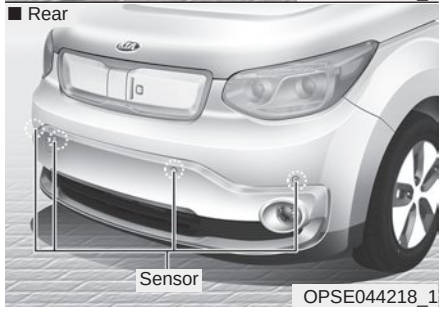
This indicator light illuminates:

- When the cruise control speed is set.

For more details, refer to “Cruise Control System” in chapter 5.

PARKING ASSIST SYSTEM





The Parking Assist System is not a substitute for proper and safe parking and backing-up procedures. Always drive safely and use caution when parking. The Parking Assist System may not detect every object behind or in front of the vehicle.

The parking assist system assists the driver during movement of the vehicle by chiming if any object is sensed within the distance of 100 cm (39 in) in front or 120cm (47in) 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. When the vehicle moving, pay attention to your surroundings.

⚠ WARNING

The parking assist system is a supplementary function only.

The operation of the parking assist system can be affected by several factors (including environmental conditions). It is the responsibility of the driver to always check the area in front of and behind the vehicle before and while moving.

Operation of the parking assist system

Operating condition

- This system activates when the parking assist button is pressed with the POWER button ON.
- The parking assist button turns on automatically and activates the parking assist system when you shift the gear to the R (Reverse) position.

- 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 100 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.

✻ NOTICE

The system may not detect and object if the distance from the object is already less than approximately 25 cm (10 in.) when the system is turned ON.

Types of warning sound and indicator

Distance from object		Warning indicator		Warning sound
		When driving forward	When driving rearward	
100cm~60cm (39 in. ~ 24 in.)	Front		-	Buzzer beeps intermittently
120cm~60cm (47 in. ~ 24 in.)	Rear	-		Buzzer beeps intermittently
60cm~30cm (24 in. ~ 12 in.)	Front			Buzzer beeps intermittently
	Rear	-		Buzzer beeps intermittently
30cm (12 in.)	Front			Buzzer sounds continuously
	Rear	-		Buzzer sounds continuously

✻ NOTICE

The indicator may differ from the illustration as objects or sensors status. If the indicator blinks, the system should be checked by an authorized Kia dealer.

Non-operational conditions of parking assist system

Parking assist system may not operate normally when:

1. 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.)
3. 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 assist system 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 mobile 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.
2. Undetectable objects smaller than 1 m (39 in) and narrower than 14 cm (5.5 in) 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 assist system 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 (12 in) from the sensor, or it may sense an incorrect distance. Use with caution.

(Continued)

(Continued)

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 system's capabilities and limitations.

⚠ WARNING - Back-up Warning System

Never rely solely on the parking assist system when backing up. Always perform a visual inspection to make sure the vehicle is clear of all obstructions before moving the vehicle in any direction. Stop immediately if you are aware of a child anywhere near your vehicle. Some objects may not be detected by the sensors, due to the object's size or material.

Self-diagnosis

If you don't hear an audible warning sound or if the buzzer sounds intermittently when shifting the shift lever into the R (Reverse) position, this may indicate a malfunction in the parking assist system. If this occurs, have the system checked by an authorized Kia dealer.

Your new vehicle warranty does not cover any accidents or damage to the vehicle or injuries to its occupants related to a parking assist system. Always drive safely and cautiously.

REAR CAMERA DISPLAY

OPSE044050L

OPSE044051

The rear camera display will activate when the back-up light is ON with the POWER button ON and the shift lever in the R (Reverse) position.

This system is a supplemental system that helps the driver by displaying objects behind the vehicle when backing up.

Always keep the camera lens clean. If lens is covered with foreign matter, the camera may not operate normally.

The rear camera display 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. While the camera's display is generally accurate, objects can be much closer than they appear in the display screen and can be distorted in both size and proportion.

⚠ WARNING - Backing up using camera

Never rely solely on the rear camera display when backing. You must always use methods of viewing the area behind you including looking over both shoulders as well as continuously checking all three rear view mirrors. Due to the difficulty of ensuring that the area behind you remains clear, always back slowly and stop immediately if you even suspect that a person, and especially a child, might be behind you.

LIGHTING

Headlamp escort (if equipped)

If you turn the POWER button to the ACC or OFF position with the headlights ON, the headlights remain on for about 5 minutes. 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 smart key twice or turning the light switch to the OFF or Auto position. However, if you turn the light switch to the Auto position when it is dark outside, the headlights will not be turned off immediately.

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 turns the vehicle off and opens the driver-side door (in that order).
- With this feature, the parking lights will turn off automatically if the driver parks on the side of the road at night.

  If necessary, to keep the lights on when the vehicle is turned off, 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.

Daytime running light

Daytime Running Lights (DRL) may help 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 front fog light or headlight (low beam) switch is ON.
2. The POWER button is OFF.
3. The parking brake is applied.

Abnormal lamp operation

If there is a problem with the electric communication system in the vehicle, the position light and fog light will not turn on even though, the parking light and front frog light switch is turned to the ON position. However, when the headlight switch is turned to the ON position, the position light and fog light will turn on.

Abnormal lamp operation due to stabilization of electric control system

Blinking may occur on a normally operating lamp. This symptom occurs due to stabilization of the electric control system. There is no problem with the vehicle if the lamp turns back on after blinking.

However, if the lamp turns off after blinking or the symptom above occurs repeatedly, there may be a failure in the electric control system. If this is the case, contact an authorized Kia dealer and have the system checked.

Lighting control

OXM049110

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) Parking light position

(3) Headlight position

(4) Auto light position (if equipped)

Parking light position ( )

OAM049041

When the light switch is in the parking light position (1st position), the tail, license and instrument panel lights will turn ON.

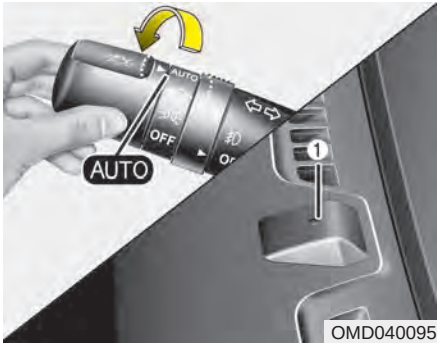
Headlight position ( )

OAM049042

When the light switch is in the headlight position (2nd position), the head, tail, license and instrument panel lights will turn ON.

The POWER button must be in the ON position to turn on the headlights.

Auto light position



OMD040095

When the light switch is in the AUTO light position, the taillights and headlights will be turned ON or OFF automatically depending on the amount of light outside the vehicle.

- Never place anything over sensor (1) located on the instrument panel. This will ensure better auto-light system control.
- Don't clean the sensor using a window cleaner. The cleaner 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

OAM049044

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 vehicle is not in the ready ( ) mode.

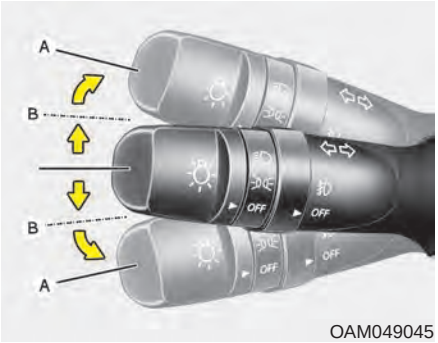
OAM049043

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.

⚠ WARNING - High beams

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

Turn signals and lane change signals



OAM049045

The POWER button 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 self-cancel 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.

If an indicator flash is abnormally quick or slow, a bulb may be burned out or have a poor electrical connection in the circuit.

One-touch lane change function

To activate an one-touch lane change function, move the turn signal lever slightly and then release it. The lane change signals will blink 3, 5 or 7 times.

You can choose one-touch lane change blinking function in "One touch turn lamp" of "User setting". Refer to "User setting" in chapter 4.

✻ NOTICE

If an indicator flash is abnormally quick or slow, the bulb may be burned out or have a poor electrical connection in the circuit.

Front fog light (if equipped)

OAM049046N

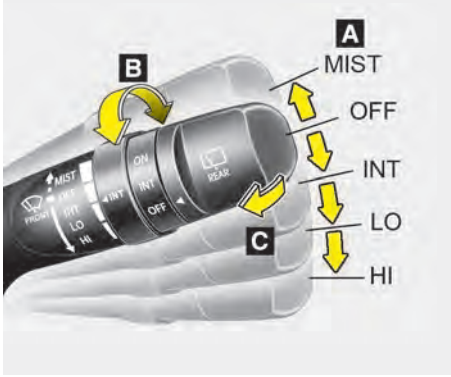
Fog lights are used to provide improved visibility when visibility is poor due to fog, rain or snow, etc. The fog lights will turn on when the fog light switch (1) is turned to the on position after the headlight is turned on.

To turn off the fog lights, turn the fog light switch (1) to the OFF position.

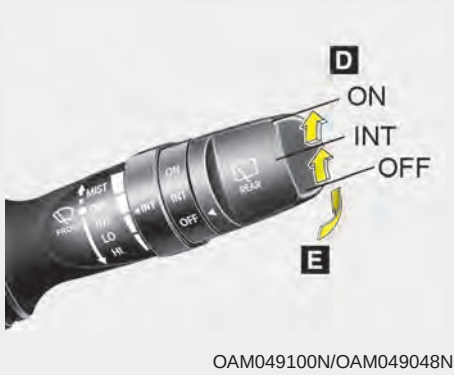
When in operation, the fog lights consume large amounts of vehicle electrical power. Only use the fog lights when visibility is poor.

WIPERS AND WASHERS

Windshield wiper/washer



Rear window wiper/washer



OAM049100N/OAM049048N

A : Wiper speed control

- MIST – Single wipe
- OFF – Off
- INT – Intermittent wipe
- LO – Low wiper speed
- HI – High wiper speed

B : Intermittent wipe time adjustment

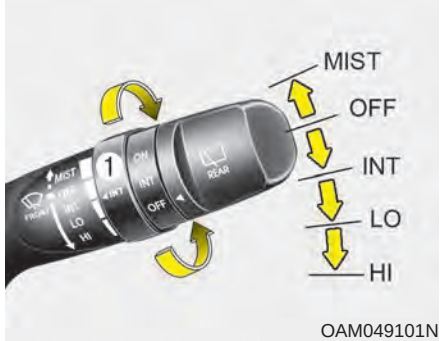
C : Wash with brief wipes (front)

D : Rear wiper/washer control

- ON – Continuous wipe
- INT – Intermittent wipe (if equipped)
- OFF – Off

E : Wash with brief wipes (rear)

Windshield wipers



OAM049101N

Operates as follows when the POWER button is turned ON.

MIST : For a single wiping cycle, push the lever upward and release it with the lever in the OFF position. The wipers will operate continuously if the lever is pushed upward and held.

OFF : Wiper is not in operation

INT : 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).

LO : Normal wiper speed

HI : Fast wiper speed

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.

Windshield washers

OAM049102N

In the OFF 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 motor compartment on the passenger side.

⚠ CAUTION - Washer pump

To prevent possible damage to the washer pump, do not operate the washer when the fluid reservoir is empty.

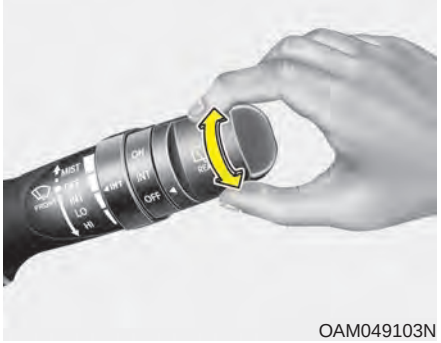
⚠ WARNING - Obscured visibility

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.

⚠ **CAUTION - Wipers& windshields**

- ***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.***

Rear window wiper and washer switch



OAM049103N

The rear window wiper 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.

ON - Normal wiper operation

INT - Intermittent wiper operation (if equipped)

OFF - Wiper is not in operation

OXM049125

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.

INTERIOR LIGHT

Do not use the interior lights for extended periods when the vehicle is not in the ready ( ) mode.

It may cause battery discharge.

⚠ WARNING - Interior light

Do not use the interior lights when driving in the dark. The glare from the interior lights may obstruct your view and cause an accident.

Interior lamp AUTO cut

- When all entrances are closed, if you lock the vehicle by using the smart key, all interior lamp will be off after a few seconds.
- If you do not operate anything in the vehicle after turning off the POWER button, the lights will turn off after 20 minutes.

Map lamp

OPS043052

Press the lens (1) to turn the map lamp on or off.

- ROOM (2) :
  - The map lamp and room lamp stays on at all times.
  - To turn off the ROOM mode, press the ROOM button (2) once again (not pressed.)

- DOOR (3) :
  - 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 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 POWER button in the ACC or LOCK/OFF position.
  - The map lamp and room lamp will stay on continuously if the door is opened with the POWER button in the ON position.
  - The map lamp and room lamp will go out immediately if the POWER button is changed to the ON position or all doors are locked.
  - To turn off the DOOR mode, press the DOOR button (3) once again (not pressed).

✻ NOTICE

- **When the lamp is turned on by pressing the lens (1), the lamp does not turn off even if the DOOR mode or ROOM mode is not selected (not pressed).**
- **If the ROOM button and DOOR button are pressed at the same time, the map lamp and room lamp will stay on at all times (ROOM mode will be selected).**

Room lamp

OPS043054

Press the button to turn the light on or off.

If the front map lamp turns on by the front map lamp switch, the room lamp will turn on.

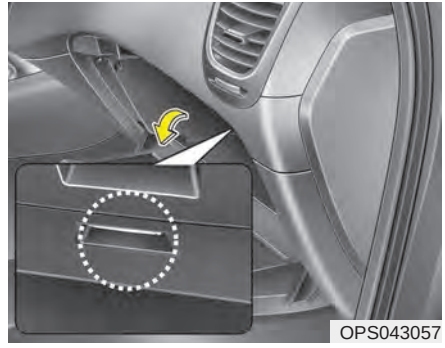
Luggage room lamp

OPS043055

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

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

Glove box lamp


OPS043057

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

To prevent unnecessary charging system drain, close the glove box securely after using the glove box.

Vanity mirror lamp

OAM042336

Pull the sunvisor downward and you can turn the vanity mirror lamp ON or OFF by pushing the button.

- : To turn the lamp ON.
- O : To turn the lamp OFF.

To prevent unnecessary charging system drain, turn off the lamp by pushing the O button after using the lamp.

DEFROSTER

⚠ **CAUTION - Conductors**

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.

If you want to defrost and defog the front windshield, refer to “Windshield defrosting and defogging” in this section.

Rear window defroster

OPS043152

The defroster heats the window to remove frost, fog and thin ice from the rear window, while the vehicle is in the ready ( ) mode.

To activate the rear window defroster, press the rear window defroster button located in the center facia switch panel.

The indicator on the rear window defroster button illuminates when the defroster is ON.

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 POWER button is turned off. To turn off the defroster, press the rear window defroster button again.

Outside rearview mirror defroster

If your vehicle is equipped with the outside rearview mirror defrosters, they will operate at the same time you turn on the rear window defroster.

AUTOMATIC CLIMATE CONTROL SYSTEM

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

OPSE044162N

Automatic heating and air conditioning

OPS043165

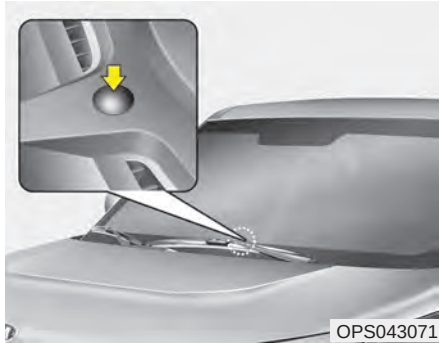
1. Push the AUTO button. It is indicated by AUTO on the display. The modes, fan speeds, air intake , air-conditioning and heater will be controlled automatically by temperature setting.

OPS043171

2. Turn 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 (A/C) button
  - Heater (HEAT) button
  - DRIVER ONLY button
  - Front windshield defroster button
  - Air intake control button
  - Fan speed control switch
  The selected function will be controlled manually while other functions operate automatically.
- **Regardless of the temperature setting, when using automatic operation, the air conditioning system can automatically turn on to decrease the humidity inside the vehicle, even if the temperature is set to warm.**



Never place anything over the sensor located on the instrument panel to ensure better control of the heating and cooling system.

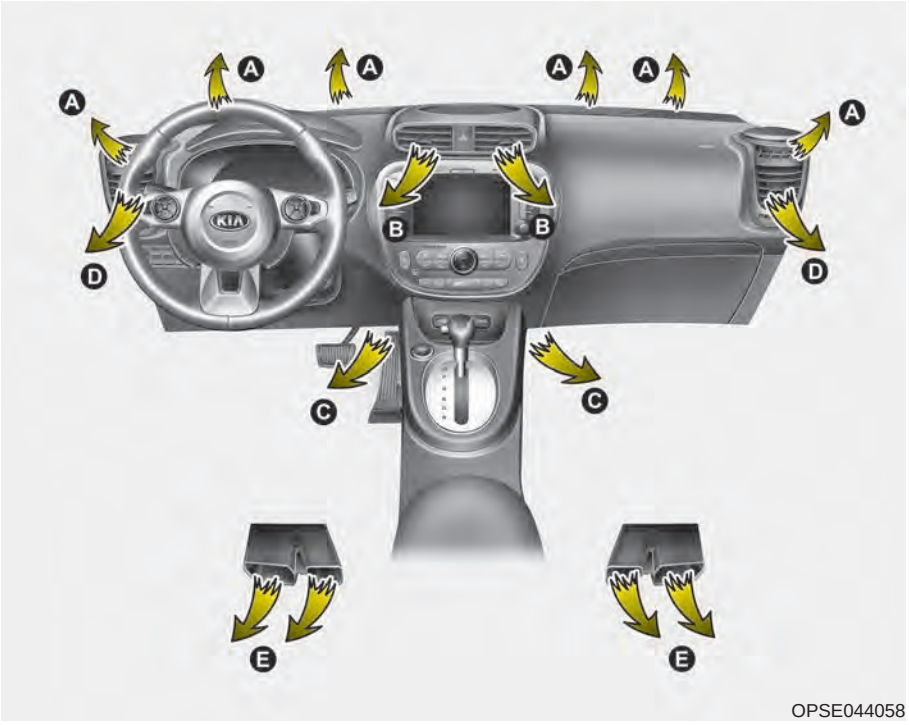
Manual heating and air conditioning

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 AUTO button while automatic operation, the functions not selected will be controlled automatically.

1. Start the vehicle.
2. Set the mode to the desired position.
3. Set the temperature control to the desired position.
4. Set the air intake control to the outside (fresh) air position.
5. Set the fan speed control to the desired speed.
6. If air conditioning is desired, turn the air conditioning system on.
7. If heater is desired, press the HEAT button.

Press the AUTO button in order to convert to full automatic control of the system.



OPSE044058

Mode selection

OPS043167

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

The air flow outlet port is converted as follows:

Vent mode (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.

Vent-Floor mode (B, D, C, E)

Air flow is discharged towards the face and floor.

Floor mode (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 defroster.

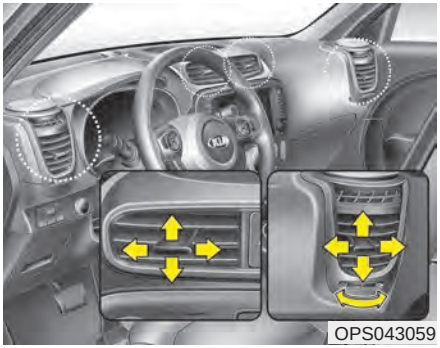
Floor/Defrost mode (A, C, E, D)

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

OPS043169

Defrost mode (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 port can be opened or closed separately using the thumbwheel.

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 (32°C(90°F)) by turning the knob to the right extremely.

The temperature will decrease to the minimum (17°C(62°F)) 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.

Temperature scale conversion

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

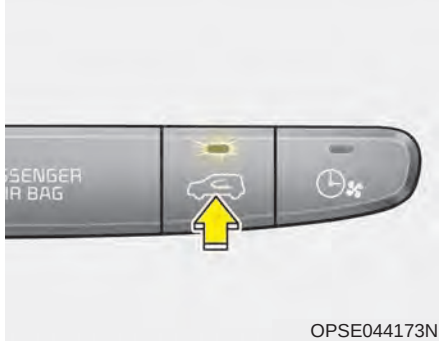
This is normal condition. You can switch the temperature scale as follows;

While pressing the AUTO button, press the OFF button for 3 seconds or more. The temperature scale will change from Centigrade to Fahrenheit, or from Fahrenheit to Centigrade.

The temperature unit (from °C to °F or from °F to °C) can be changed by using the “User Settings” mode of the LCD display.

❈ You change the temperature unit, the temperature unit on the instrument cluster is changed as well.

Air intake control



OPSE044173N

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

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

Recirculated air position

The indicator light on the button illuminates when the recirculated air position is selected.

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

❈ According to the outside temperature if the recirculation air position is on for a long time, the air intake position will automatically change to the outside (fresh) air position to ventilate the inside air.

Outside (fresh) air position

The indicator light on the button does not illuminate when the outside (fresh) air position is selected.

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

⚠ WARNING - Recirculated air

Continuous use of 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.

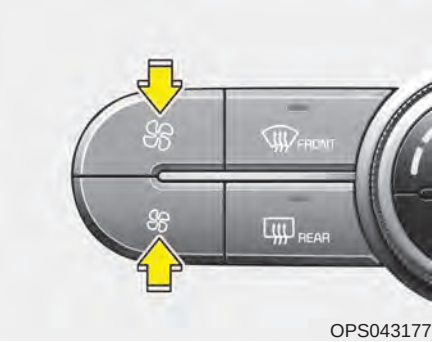
⚠ WARNING - Reduced visibility

Continued climate control system operation in the recirculated air position may allow humidity to increase inside vehicle which may fog the glass and obscure visibility.

It should be noted that prolonged operation of the heating in recirculated air position will cause fogging of the windshield and side windows and the air within the passenger compartment will become stale.

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

Fan speed control

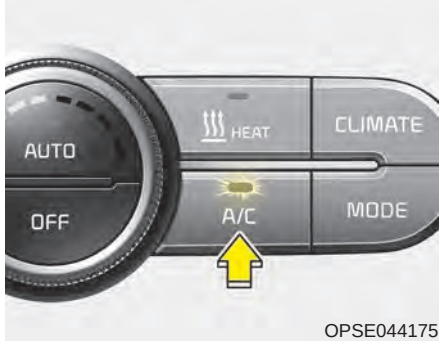


OPS043177

The fan speed can be set to the desired speed by pressing the fan speed control button.

To change the fan speed, press the button (✤) for higher speed, or push the button (✤) for lower speed. To turn the fan speed control off, press the OFF button and select outside (fresh) air position.

Air conditioning



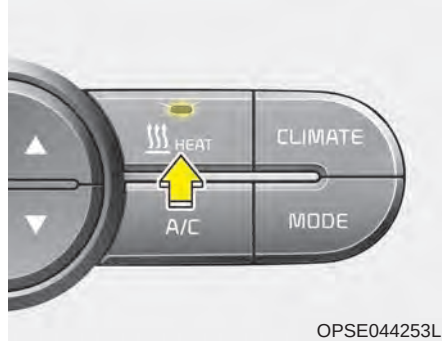
OPSE044175

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

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

- Air conditioner/Heater uses energy from the battery. If you use the heater or air conditioner for too long, distance to empty can be reduced due to too much power consumption. Turn off the heater and air conditioner if you do not need them.

HEAT Button



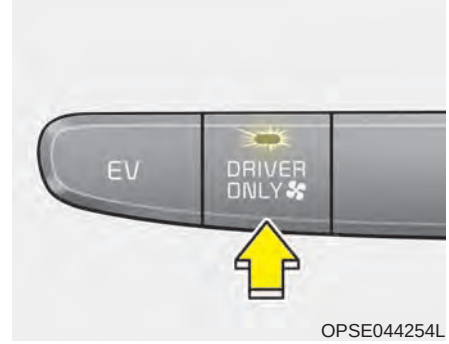
OPSE044253L

Push the HEAT button to turn the heater on (indicator light will illuminate).

Push the button again to turn the heater off.

- Air conditioner/Heater uses energy from the battery. If you use the heater or air conditioner for too long, distance to empty can be reduced due to too much power consumption. Turn off the heater and air conditioner if you do not need them.

Driver Only Button



OPSE044254L

If you press the driver seat air conditioning button and the indicator lamp inside the button tums on, cool air blows only in the driver's seat. If you use it when there is no passenger on the front passenger seat, you can increase the distance to empty.

If you select the driver seat air conditioning in the front windshield defrost mode (,) air comes out from both left and right sides on the front windshield.

Reserved Climate Control Button

OPSE044255L

If you press the reserved climate control button (), the indicator lamp inside the button blinks three times and the settings for reserved climate control is displayed on AVN.

For details on how to set reserved climate control, refer to the AVN manual that is provided separately.

When reserved climate control is set and the charging cable is connected, the climate control begins operating 30 minutes before the set time (departure time).

The indicator lamp lighting conditions

1. Blinking three times:

   When you press the reserved climate control button and enter the corresponding settings screen on AVN

2. Remaining turned on:

   When reserved climate control is set

3. Blinking continuously:

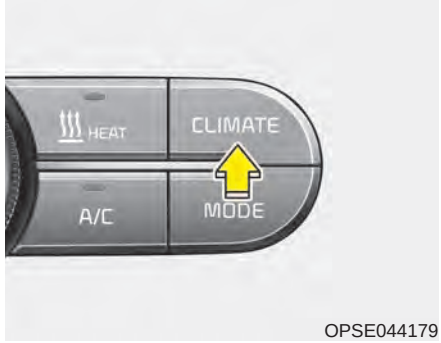
   When the climate control is operating (operates only when the charging cable is connected)

Blower OFF

OPS043179

Push the OFF button to turn off the blower. However you can still operate the mode and air intake buttons as long as the POWER button is in the position ON.

Climate information screen selection



OPSE044179

Press the climate information screen selection button to view climate information in full screen mode.

System operation

Ventilation

1. Set the mode to the position.
2. Set the air intake control to the outside (fresh) air position.
3. Set the temperature control to the desired position.
4. Set the fan speed control to the desired speed.

Heating

1. Set the mode to the position.
2. Set the air intake control to the outside (fresh) air position.
3. Set the temperature control to the desired position.
4. Set the fan speed control to the desired speed.
5. If dehumidified heating is desired, turn the air conditioning system on.

- If the windshield fogs up, set the mode to the or position.

Operation Tips

- To keep dust or unpleasant fumes from entering the vehicle through the ventilation system, temporarily set the air intake control to the recirculated air position. Be sure to return the control to the fresh air position when the irritation has passed to keep fresh air in the vehicle. This will help keep the driver alert and comfortable.
- 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

All Kia Air Conditioning Systems are filled with R-134a refrigerant.

1. Start the vehicle. Press the air conditioning button.
2. Set the mode to the position.
3. Set the air intake control to the outside air or recirculated air position.
4. Adjust the fan speed control and temperature control to maintain maximum comfort.

- When maximum cooling is desired, set the temperature control to the extreme left position, set the mode control to the MAX A/C position, then set the fan speed control to the highest speed.

⚠ CAUTION - Excessive A/C

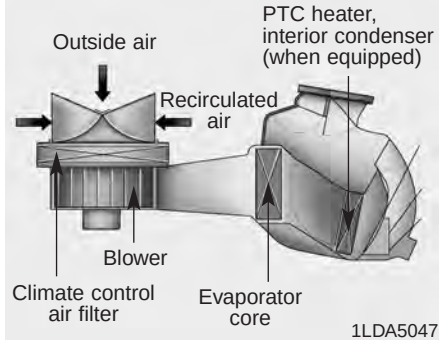
When using the air conditioning system, monitor the coolant closely while driving up hills or in heavy traffic when outside temperatures are high. Air conditioning system operation may cause overheating. Continue to use the blower fan but turn the air conditioning system off if the engine coolant temperature gauge indicates overheating.

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 vehicle 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)



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 an authorized Kia dealer.

✻ NOTICE

- **Replace the filter every 15,000 miles or once a year.**
  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, the system should be checked at an authorized Kia dealer.**

Checking the amount of air conditioner refrigerant and compressor lubricant

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

(Heater performance as well as air conditioner performance can be deteriorated on the vehicle that is equipped with a heat pump.)

Therefore, if abnormal operation is found, have the system inspected by an authorized Kia dealer.

⚠ WARNING

The air conditioning system for the Electric Vehicle (EV) should be serviced by an authorized Kia dealer. The Electric Vehicle (EV) air conditioning system is connected to the high voltage system and requires special fluids, tools and service procedures. Improperly servicing the Electric Vehicle (EV) air conditioning system could result in electrical shock, serious injury, or even death.

⚠ WARNING

The oil and refrigerant in your vehicle's air conditioning system is under very high pressure. If proper service procedures are not followed an explosion may result. To reduce the risk of serious injury or death, the air conditioning system in your vehicle should only be serviced by trained and certified technicians.

⚠ CAUTION

It is important that the correct type and amount of oil and refrigerant is used, otherwise damage to the vehicle and injury 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

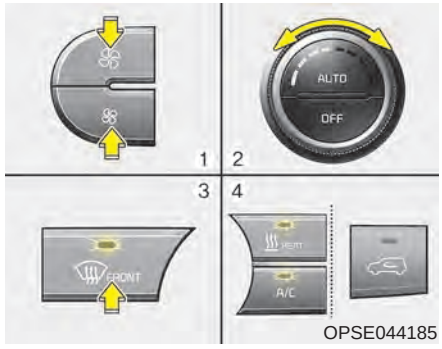
⚠ WARNING - Windshield heating

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

Automatic climate control system

To defog inside windshield



OPSE044185

1. Set the fan speed to the desired position.
2. Select desired temperature.

3. Press the defrost button ( ).
4. The air-conditioning and heater will be turned on according to the detected ambient temperature, outside (fresh) air position and higher fan speed will be selected automatically.

If the air-conditioning and heater, outside (fresh) air position and higher fan speed are not selected automatically, adjust the corresponding button or knob manually.

If the position is selected, with a low fan speed, a higher fan speed may be automatically selected.

To defrost outside windshield

OPSE044186

1. Set fan speed to the highest position.
2. Set temperature to the Maximum (32°C(90°F)).
3. Press the defrost button ( ).
4. The air-conditioning and heater will be turned on according to the detected ambient temperature and outside (fresh) air position will be selected automatically.

If the position is selected, with a low fan speed, a higher fan speed may be automatically selected.

Defogging logic

To reduce the possibility of fogging up the inside of the windshield, the air intake or air-conditioning and heater are controlled automatically according to certain conditions such as or position. To cancel or return to the defogging logic, do the following.

OPSE044188

1. Turn the POWER button to the ON position.
2. Press the defrost button ( ).
3. While pressing the air conditioning button (A/C), press the air intake control button ( ) at least 5 times within 3 seconds.

The indicator on the air intake button blinks 3 times with 0.5 seconds of interval. It indicates that the defogging logic is canceled or returned to the programmed status.

If the battery has been discharged or disconnected, it will be reset to the defog logic status.

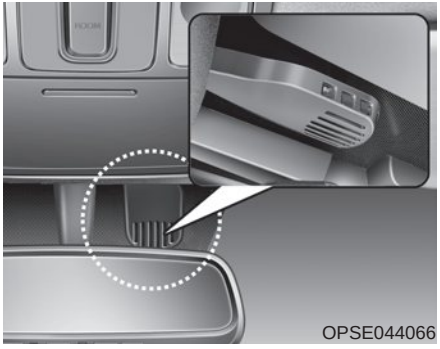
CLEAN AIR

OPSE044274N

When the POWER button is in the ON position, the clean air function turns on automatically.

Also, the clean air function turns off automatically, when the POWER button turns to the OFF position.

AUTO DEFOGGING SYSTEM



Auto defogging reduces the possibility of fogging up the inside of the windshield by automatically sensing the moisture of inside the windshield.

The auto defogging system operates when the AUTO mode is on.

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 : Outside air position

Step 2 : Operating the air conditioning

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 cancel the auto defogging system, press the front defroster button more than 3 seconds. To use the system, repeat the above procedure again.

- When cancelled : The indicator in the front defroster button will blink 3 times (interval of 1 seconds) to notify you that the system is cancelled.
- When activated : The indicator in the front defroster button will blink 6 times (interval of 0.5 seconds) to notify you that the system is set.

If the battery has been disconnected or discharged, it resets to the auto defogging status.

✻ NOTICE

If the A/C off is manually selected while the auto defogging system is on, the auto defogging indicator will blink 3 times to give notice that the A/C off can not be selected.

STORAGE COMPARTMENT

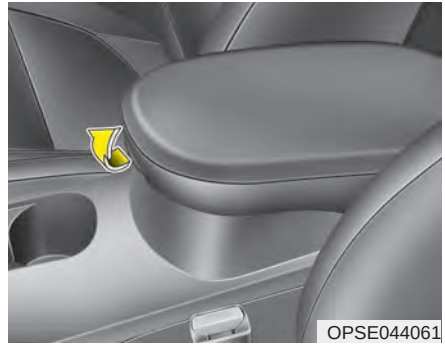
These compartments can be used to store small items.

- To avoid possible theft, do not leave valuables in the storage compartment.
- 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, 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.

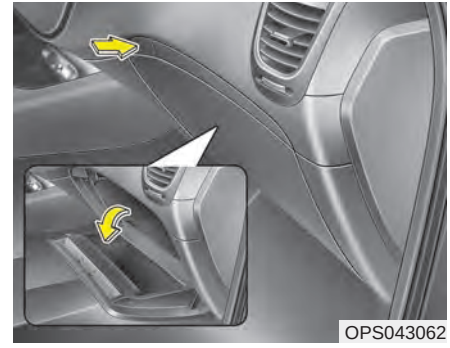
Center console storage



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.

Glove box



To open the glove box, push the button and the glove box will automatically open. Close the glove box after use.

Always keep the glove box closed while the vehicle is in operation.

Sunglass holder

OPSE044065

To open the sunglass holder, press the cover and the holder will slowly open. Place your sunglasses with the lenses facing out.

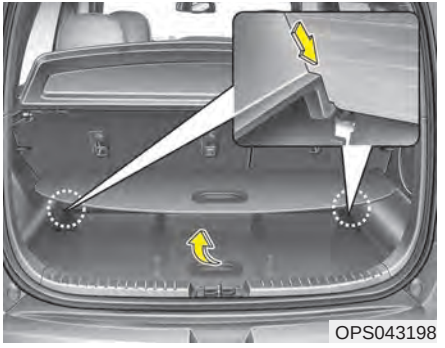
To close the sunglass holder, push it up.

Do not place other items in the sunglass holder.

⚠ WARNING - Sunglass holder

- **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.**

Luggage box


OPS043198

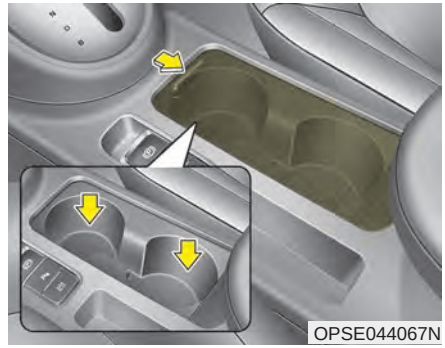
You can place a first aid kit, a reflector triangle, tools, etc. in the box for easy access.

INTERIOR FEATURES

Cup holder

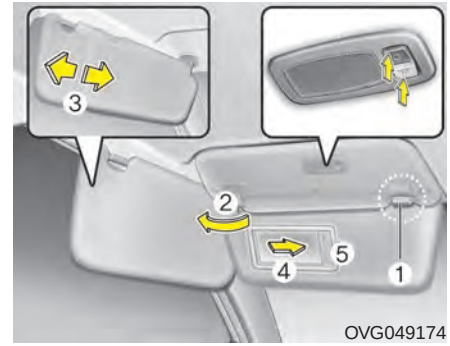
⚠ WARNING - Hot liquids

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.



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).

Adjust the sunvisor extension forward or backward (3).

To use the vanity mirror, pull down the visor and slide the mirror cover (4).

To use the vanity mirror lamp, switch it on. (if equipped)

The ticket holder (5, if equipped) is provided for holding a tollgate ticket.

⚠ CAUTION - Vanity mirror lamp

If you use the vanity mirror lamp, turn off the lamp before return the sunvisor to its original position. It could result in battery discharge and possible sunvisor damage.

Seat warmer (if equipped)

■ Type A

OPS033012

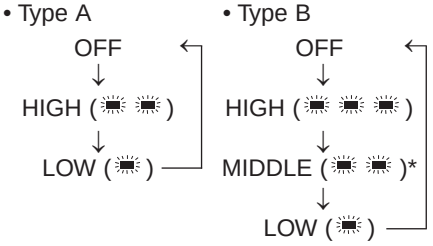
■ Type B

OPS033013

The seat warmer is provided to warm the front seats during cold weather. With the POWER button 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.

- Each time you press the switch, the temperature setting of the seat will change as follows :



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

✻ 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 - Seat damage

- ***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.***
- ***Be careful not to spill liquid such as water or beverages on the seat. If you spill some liquid, wipe the seat with a dry towel. Before using the seat warmer, dry the seat completely.***

⚠ WARNING - Seat heater burns

The seat warmer may cause burns, even at low temperatures, if used over a long period of time. Never allow passengers who may not be able to take care of themselves to be exposed to the risk of seat heater burns. These include:

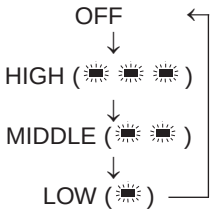
1. **Infants, children, elderly or disabled persons, or hospital outpatients**
2. **Persons with sensitive skin or those that burn easily**
3. **Fatigued individuals**
4. **Intoxicated individuals**
5. **Individuals taking medication that can cause drowsiness or sleepiness (sleeping pills, cold tablets, etc.)**

Seat air ventilation (if equipped)

OPS033014

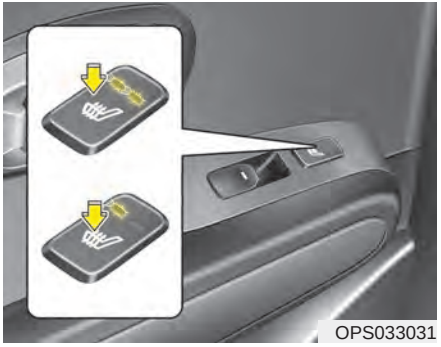
The temperature setting of the seat changes according to the switch position.

- If you want to cool your seat cushion, press the switch (blue color).
- Each time you press the button, the airflow will change as follows:



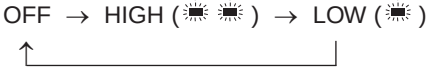
- When pressing the switch for more than 1.5 seconds with the seat air ventilation operating, the seat air ventilation will turn OFF.
- The seat air ventilation defaults to the OFF position whenever the POWER button is turned on.

Rear seat warmer (if equipped)


OPS033031

The seat warmer is provided to warm the rear outboard seats during cold weather. With the POWER button in the ON position, push either of the switches to warm rear seats.

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



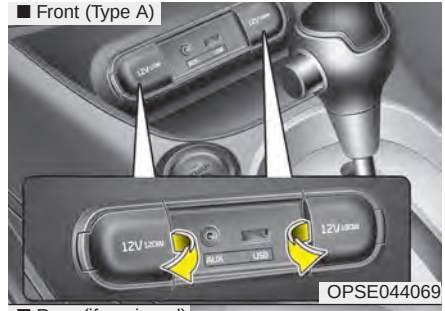
- When pressing the switch for more than 1.5 seconds with the seat warmer operating, the seat warmer will turn OFF.
- The seat warmer defaults to the OFF position whenever the POWER button is turned on.

✱ 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.

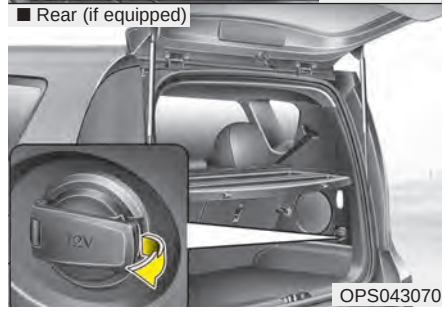
Power outlet (if equipped)

■ Front (Type A)



OPSE044069

■ Rear (if equipped)



OPS043070

The power outlet is designed to provide power for mobile telephones or other devices designed to operate with vehicle electrical systems.

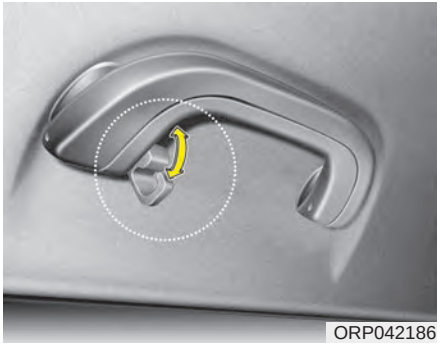
The devices should draw less than 10 amps with the vehicle is in the ready ( ) mode.

- Use the power outlet only when the vehicle is in the ready ( ) mode and remove the accessory plug after use. Using the accessory plug for prolonged periods of time with the vehicle is not in the ready ( ) mode could cause the battery to discharge.
- Only use 12V electric accessories which are less than 10A(Driver's side) or 15A(Passenger's side) 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.

⚠ WARNING - Electric shock

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.

Clothes hanger (if equipped)



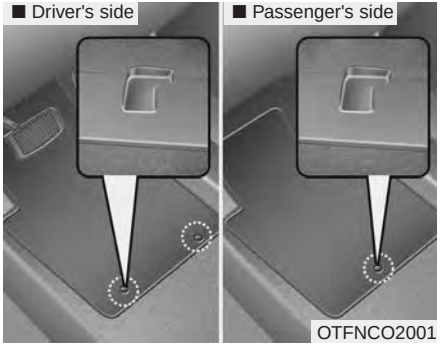
To use the hanger, pull down the upper portion of hanger.

Be careful when opening and closing the doors. Clothes, etc. may get caught between the door gap.

⚠ CAUTION - Hanging clothing

Do not hang heavy clothes, since those may damage the hook.

Floor mat anchor(s)



When using a floor mat on the floor carpet, make sure it attaches to the floor mat anchor(s) in your vehicle. This keeps the floor mat from sliding forward.

⚠ WARNING - After market floor mat

Do not install aftermarket floor mats that are not capable of being securely attached to the vehicle's floor mat anchors. Unsecured floor mats can interfere with pedal operation.

The following must be observed when installing ANY floormat to the vehicle.

- Ensure that the floormats are securely attached to the vehicle's floormat anchor(s) before driving the vehicle.
- Do not use ANY floormat that cannot be firmly attached to the vehicle's floormat anchors.
- Do not stack floormats on top of one another (e.g. all-weather rubber mat on top of a carpeted floormat). Only a single floormat should be installed in each position.

IMPORTANT - Your vehicle was manufactured with driver's side floormat anchors that are designed to securely hold the floormat in place. To avoid any interference with pedal operation, Kia recommends that only the Kia floormat designed for use in your vehicle be installed.

Luggage net holder (if equipped)

OPS043193

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

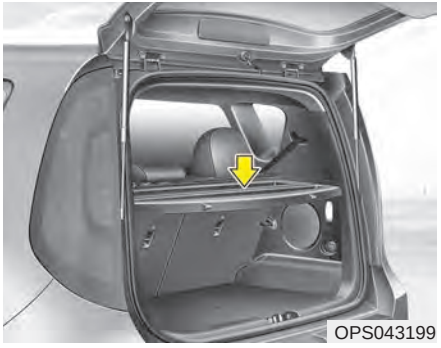
If necessary, contact your authorized Kia dealer to obtain a luggage net.

To prevent damage to the goods or the vehicle, care should be taken when carrying fragile or bulky objects in the luggage compartment.

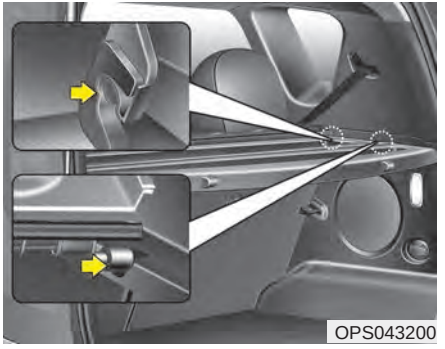
⚠ WARNING - Luggage net

- **Always keep your face and body out of the luggage net recoil path and avoid using the luggage net when the straps have visible signs of wear or damage. The luggage net can snap and cause injuries.**
- **All cargo should be evenly distributed, properly secured and never piled higher than the seatback.**

Cargo area cover (if equipped)



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



To use the cargo area cover, insert the 4 edges into the slots.

⚠ WARNING - Objects

- **Do not place objects on the cargo area cover. Such objects may be thrown about inside the vehicle and possibly injure vehicle occupants during an accident or when braking.**
- **All cargo should be evenly distributed, properly secured and never piled higher than the seatback.**

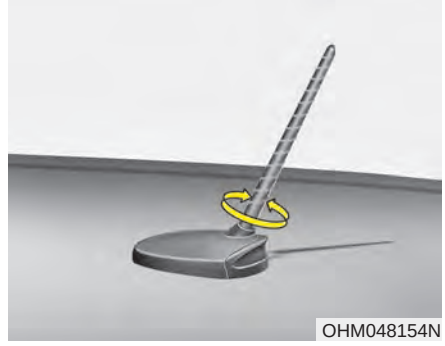
⚠ CAUTION - Luggage

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.

AUDIO SYSTEM

If you install aftermarket HID head lamps, your vehicle's audio and electronic devices may malfunction.

Antenna


OHM048154N

Your vehicle uses a roof antenna to receive AM or/and FM broadcast signals.

This antenna pole is removable. To remove the roof antenna pole, turn it counterclockwise. To install the roof antenna pole, turn it clockwise.

⚠ CAUTION - 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 roof antenna pole, it is important that it is fully tightened to ensure proper reception.
- When cargo is loaded on the roof rack, do not place the cargo near the antenna pole to ensure proper reception.

Audio remote control (if equipped)

OPS043190

The steering wheel audio remote control button may be installed.

Do not operate the audio remote control buttons simultaneously.

⚠ WARNING - Distracted driving

Focus on the road while driving. The driver's primary responsibility is in the safe and legal operation of the vehicle. Use of any handled devices, other equipment or vehicle systems that distract the drive should not be used during vehicle operation.

VOLUME (VOL+/ VOL-) (1)

- Push the VOL + to increase volume.
- Push the VOL - to decrease volume.

SEEK/PRESET (∧ / ∨) (2)

If the SEEK/PRESET button is pressed for 1 second or more, it will work as follows in each mode.

RADIO mode

It will function as the AUTO SEEK select button.

USB mode

It will function as the FF/REW button.

If the SEEK/PRESET button is pressed for less than 1 second, it will work as follows in each mode.

RADIO mode

It will function as the PRESET STATION select buttons.

USB mode

It will function as the FILE UP/DOWN button.

MODE (3)

Press the button to select Radio, USB or AUX.

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

Aux, USB and iPod®* port

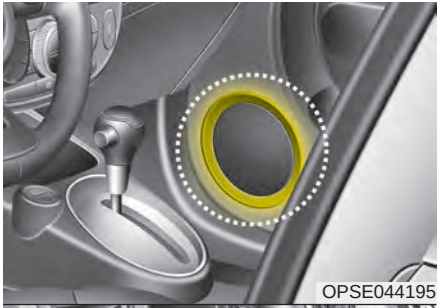
OPSE044194

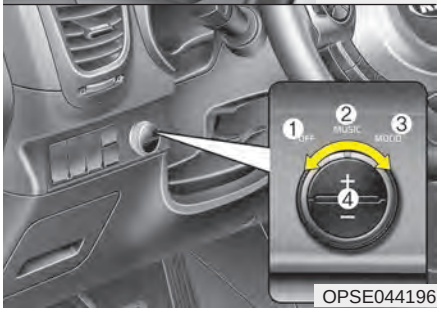
If your vehicle has an aux and/or USB(universal serial bus) port or iPod® port, you can use an aux port to connect audio devices and an USB port to plug in an USB and also an iPod® port to plug in an iPod®.

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 registered trademark of Apple Inc.

Speaker lights (if equipped)





The speaker lights that lights around the front speaker is adjusted by turning the knob as follows.

1. OFF : The light turns off.
2. MUSIC :

   The red light blinks according to the sound of the audio.

   If the audio is not turned on, the light does not turn on.
3. MOOD :

   The light color changes automatically at regular interval.
4. +/- :

   When the lights are on, push the illumination button to adjust the light intensity.

   If low lighting grade is selected, the intensity of light may be weak or may not illuminate according to the audio volume or selected condition.

The lighting around the front speaker may not illuminate when the sound of the audio is low.

Do not use the lights for extended periods when engine is not running.

It may cause battery discharge.

✻ NOTICE

When the doors are opened, the lighting system will not operate.

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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 coolant, brake fluid, and washer fluid should be checked on a regular basis, at the exact interval depending on the fluid. Further details are provided in chapter 7, “Maintenance”.

⚠ WARNING - Distracted driving

Focus on the road while driving. The driver's primary responsibility is in the safe and legal operation of the vehicle. Use of any handled devices, other equipment or vehicle systems that distract the drive should not be used during vehicle operation.

Before starting

- Close and lock all doors.
- Position the seat so that all controls are easily reached.
- Buckle your seat belt.
- Adjust the inside and outside rearview mirrors.
- Be sure that all lights work.
- Check all gauges.
- Check the operation of warning lights when the POWER button 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.

⚠ WARNING - Check surroundings

Always check the surrounding areas near your vehicle for people, especially children, before putting a vehicle into D (Drive) or R (Reverse).

⚠ WARNING - Loose objects

Securely store items in your vehicle. 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.

⚠ WARNING - Driving while intoxicated

Do not drive while intoxicated. Drinking and driving is dangerous. Even a small amount of alcohol will affect your reflexes, perceptions and judgment.

Driving while under the influence of drugs is as dangerous as or more dangerous than driving drunk.

POWER BUTTON

Illuminated POWER button

OPSE054001

Whenever the front door is opened, the POWER button will illuminate for your convenience. The light will go off after about 30 seconds when the door is closed.

When all entrances are closed, if you lock the vehicle by using the smart key, the light will go off immediately.

POWER button position

OFF

Not illuminated

To turn off the vehicle, press the POWER button with the shift lever in the P (Park) position. When you press the POWER button without the shift lever in the P (Park) position, the POWER button will not change to the OFF position but to the ACC position.

In an emergency situation while the vehicle is in motion, you are able to turn the vehicle off and to the ACC position by pressing the POWER button for more than 2 seconds or 3 times successively within 3 seconds. If the vehicle is still moving, you can restart the vehicle without depressing the brake pedal by pressing the POWER button with the shift lever in the N (Neutral) position.

ACC (Accessory)

Amber

Press the POWER button while it is in the OFF position without depressing the brake pedal.

If the POWER button is in the ACC position for more than 1 hour, the POWER button is turned off automatically to prevent battery discharge.

ON

Redish orange

Press the POWER button while it is in the ACC position without depressing the brake pedal.

The warning lights can be checked before the vehicle is started. Do not leave the POWER button in the ON position for a long time, otherwise the battery may discharge.

START/RUN

Not illuminated

To start the vehicle, depress the brake pedal and press the POWER button with the shift lever in the P (Park) position.

If you press the POWER button without depressing the brake pedal, the vehicle will not start and the POWER button changes as follow:

OFF ➔ ACC ➔ ON ➔ OFF or ACC

✻ NOTICE

If you leave the POWER button in the ACC or ON position for a long time, the battery will discharge.

⚠ WARNING - Starting vehicle

Never press the POWER button while the vehicle is in motion except in an emergency. If the vehicle stops while the vehicle is in motion, this would result in loss of directional control and braking function, which could cause an accident.

Starting the vehicle

1. Carry the smart key or leave it inside the vehicle.
2. Make sure the parking brake is firmly applied
3. Place the transaxle shift lever in P (Park). Depress the brake pedal fully.
4. Press the POWER button until the ready "" indicator light in the cluster is turned on.

- Even if the smart key is in the vehicle, if it is far away from you, the vehicle may not start.
- When the POWER 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, a message "key is not in the vehicle" will appear on the LCD display. 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.

⚠ CAUTION

If the vehicle 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 POWER button in an attempt to restart the vehicle.

⚠ WARNING - Unintended vehicle movement

Never leave the smart key in the vehicle with children or vehicle occupants who are unfamiliar with the vehicle operation. Pushing the POWER button while the smart key is in the vehicle may result in unintended vehicle movement.

OPSE054005

- If the battery is weak or the smart key does not work correctly, you can start the vehicle by pressing the POWER button with the smart key.

  The side with the lock button should contact the POWER button directly.

  When you press the POWER button directly with the smart key, the smart key should contact the POWER button at a right angle.

- When the stop lamp fuse is blown, you can't start the vehicle normally. Replace the fuse with a new one. If it is not possible, you can start the vehicle by pressing the POWER button for 10 seconds while it is in the ACC position. The vehicle can start with depressing the brake pedal.

Do not press the POWER button for more than 10 seconds except when the stop lamp fuse is blown.

Pedestrian Warning System

The Pedestrian Warning System generates engine sound for pedestrians to hear vehicle sound because there is little sound while the Electric Vehicle (EV) is operating.

If the vehicle is moving low speed, the Pedestrian Warning System will operated.

- When the reduction gear is shifted to [R], the Pedestrian Warning System will be operated immediately.

Turing off the Vehicle

1. Depress the brake pedal fully.
2. Place the shift lever in the P (Park).
3. Apply the parking brake firmly.
4. Press the POWER button to turn the vehicle off.
5. Make sure the "(ready)" indicator lights on the instrument cluster are turned off.

✻ NOTICE

If the "(ready)" indicator light on the instrument cluster is still on, be careful that the vehicle is not turned off and can move when you place the shift lever in any position except P (Park).

ACTIVE ECO SYSTEM

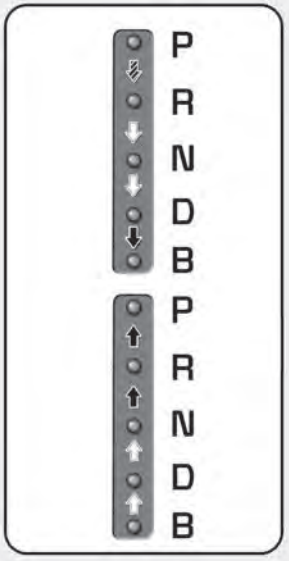
Active ECO operation

OPSE054016N

Active ECO helps improve energy efficiency by controlling certain motor and climate contol system operating parameters. Energy efficiency depends on the driver's driving habit and road condition.

- When the Active ECO button is pressed the ECO indicator (green) will illuminate to show that the Active ECO is operating.
- When the Active ECO is activated, it will remain on until the Active ECO button is pressed again. Active ECO does not turn off when the vehicle is restarted. To turn off Active ECO, press the Active ECO button again.
- If Active ECO is turned off, the system will return to normal mode.

REDUCTION GEAR



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.

OPSE054007

Reduction gear operation

⚠ WARNING - Leaving the vehicle

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 vehicle off. Do not use the P position in place of the parking brake. Always make sure the shift lever is latched in the P position and set the parking brake fully. Unexpected and sudden vehicle movement can occur if these precautions are not followed.

⚠ CAUTION - Reduction gear

To avoid damage to your reduction gear, do not accelerate the vehicle in R (Reverse) or any forward gear position with the brakes on. The reduction gear may be damaged if you shift into P (Park) while the vehicle is in motion.

When stopped on an incline, do not hold the vehicle with the motor power. Use the service brake or the parking brake.

Transaxle ranges

The indicator in the instrument cluster displays the shift lever position when the POWER button is in the ON position.

P (Park)

Always come to a complete stop before shifting into P (Park). This position locks the gear and prevents the drive wheels from rotating.

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.

R (Reverse)

Use this position to drive the vehicle backward.

⚠ **CAUTION - Shifting**

Always come to a complete stop before shifting into or out of R (Reverse); you may damage the gear if you shift into R (Reverse) while the vehicle is in motion, except when "Rocking the vehicle" explained in this section.

N (Neutral)

The wheels and gear are not engaged. The vehicle will roll freely even on the slightest incline unless the parking brake or service brakes are applied.

D (Drive)

This is the normal forward driving position. The gear will automatically shift providing the best energy economy and power.

✻ NOTICE

Always come to a complete stop before shifting into D (Drive).

B (Regenerative brake): maximum regenerative braking mode

Use it when you desire to use regenerative braking.

It is useful when you drive on a long downhill on a highway, mountain trails, or a slope.

❊ If you use regenerative braking, you can achieve the same effect as engine brake of a combustion engine.

Shift lock system

For your safety, the reduction gear has a shift lock system which prevents shifting the gear from P (Park) into R (Reverse) unless the brake pedal is depressed.

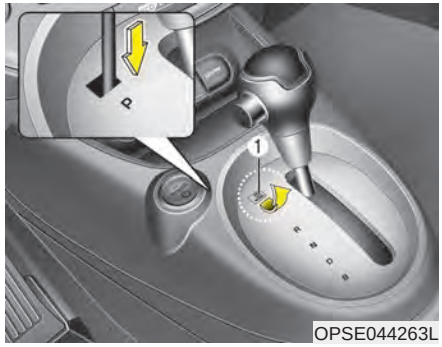
To shift the gear from P (Park) into R (Reverse):

1. Depress and hold the brake pedal.
2. Start the vehicle or turn the POWER button 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. It is a normal condition.

⚠ WARNING - Shifting from part

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. Carefully remove the cap covering the shift-lock access hole (1).
2. Insert a screwdriver into the access hole and press down on the screwdriver.
3. Move the shift lever.
4. Have your vehicle inspected by an authorized Kia dealer immediately.

- While the charging cable is connected, you cannot use the shift lever for safety reasons.

Good driving practices

- Never move the gear shift lever from P (Park) to any other position with the accelerator pedal depressed.
- Never move the gear shift lever into P (Park) when the vehicle is in motion.
- 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 shift lever in P (Park) to keep the vehicle from moving.
- Optimum vehicle performance and economy is obtained by smoothly depressing and releasing the accelerator pedal.

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.

BRAKE SYSTEM

Power brakes

Your vehicle's brake system is power-assisted by the electric hydraulic pump.

In the event the brakes lose power because of a brake control system malfunction, unstable power supply 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. Please have the system checked as soon as possible.

If the brake pedal does not return to its normal position when released, there may be a malfunction in the brake system. Take your vehicle to an authorized Kia dealer and have the system checked.

⚠ WARNING

Do not turn off the vehicle while going down a hill. The brake booster may not work sufficiently and the braking distance may be longer.

⚠ CAUTION

Do not depress the brake pedal continuously without READY ( ) status. The battery may be discharged.

⚠ WARNING - Brake Pedal

Do not drive with your foot resting on the brake pedal. This will create abnormally high brake temperatures which can cause excessive brake lining and pad wear.

⚠ WARNING - Steep hill braking

Avoid continuous application of the brakes when descending a long or steep hill by shifting to a lower gear. 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.

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.

Disc brakes wear indicator

When your brake pads are worn and new pads are required, you will hear a high-pitched warning sound from your front 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.

Always replace the front or rear brake pads as pairs.

⚠ WARNING - Brake wear

Avoid applying the parking brake to stop the vehicle while it is moving except in an emergency situation. If you ignore this audible warning, you will eventually lose braking performance, which could lead to a serious accident.

Electric parking brake (EPB)

Applying the parking brake

OPSE054008N

To apply the EPB (electric parking brake):

1. Depress the brake pedal.
2. Pull up the EPB switch.

Make sure the warning light (!)(P) BRAKE comes on.

⚠ CAUTION

Do not operate the parking brake / EPB while the vehicle is moving except in an emergency situation.

✻ NOTICE

A click or electric brake motor whine sound may be heard while operating or releasing the EPB, but these conditions are normal and indicate that the EPB is functioning properly.

Releasing the parking brake

OPSE054009N

To release the EPB (electric parking brake), press the EPB switch in the following condition:

- Have the POWER button in the ON position.
- Depress the brake pedal.

Make sure the brake warning light (!)(P) BRAKE goes off.

To release EPB (electric parking brake) automatically:

- Shift lever in P (Park)

  With the vehicle is in the ready ( ) mode depress the brake pedal and shift out of P (Park) to R (Reverse) or D (Drive).

- Shift lever in N (Neutral)

  With the vehicle is in the ready ( ) mode depress the brake pedal and shift out of N (Neutral) to R (Reverse) or D (Drive).

  1. The vehicle is in the ready ( ) mode.
  2. Fasten the driver's seat belt.
  3. Close the driver's door, tailgate.
  4. Depress the accelerator pedal while the shift lever is in R(Rear) with trunk closed, D (Drive).

Make sure the brake warning light BRAKE goes off.

✻ NOTICE

- **For your safety, you can engage the EPB even though the POWER button is in the OFF position, but you cannot release it.**
- **For your safety, depress the brake pedal and release the parking brake manually with the EPB switch when you drive downhill or when backing up the vehicle.**

Do not follow the above procedure when driving on a flat level ground. The vehicle may suddenly move forward.

⚠ CAUTION

- ***If the parking brake warning light BRAKE is still on even though the EPB has been released, have the system checked by an authorized Kia dealer.***
- ***Do not drive your vehicle with the EPB applied. It may cause excessive brake pad and brake rotor wear.***

EPB (electric parking brake) may be automatically applied when:

- Requested by other systems.

System warning

OPSE054012L

- If you try to drive off depressing the accelerator pedal with the EPB applied, but the EPB doesn't release automatically, a warning will sound and a message will appear.
- If the driver's seat belt is not fastened and any door, the tailgate 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 - Parking Brake Use

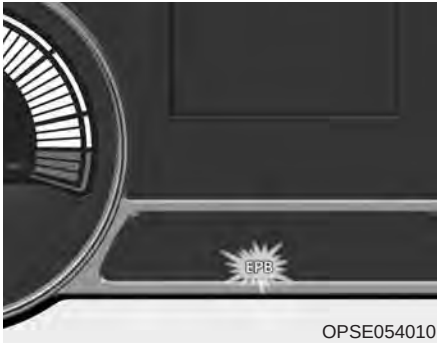
- **Never allow a passenger to touch the parking brake. If the parking brake is released unintentionally, serious injury may occur.**
- **All vehicles should always have the parking brake fully engaged when parked to avoid inadvertent movement of the car which can injure occupants or pedestrians.**

- A click or electric brake motor whine 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.
- When you automatically release EPB by depressing the accelerator pedal, depress it slowly.

⚠ CAUTION

The EPB may malfunction if you drive with the EPB applied.

EPB malfunction indicator



OPSE054010

This warning light illuminates if the POWER 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 POWER button is changed to the ON position, this indicates that the EPB may have malfunctioned.

If this occurs, have your vehicle checked by an authorized Kia dealer as soon as possible.

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.

- The EPB warning light may illuminate if the EPB switch operates abnormally. Shut the vehicle power 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 an authorized Kia dealer.
- If the parking brake warning light (BRAKE) does not illuminate or blinks even though the EPB switch was pulled up, the EPB is not applied.
- If the brake warning light (BRAKE) is blinking while the [EPB] warning light is on, press the electric parking brake (EPB) switch once to release the parking brake and turn off the vehicle.

  Turn on the vehicle again and pull the EPB switch to engage the parking brake. Check if the [EPB] warning light turns off. If the [EPB] warning lamp remains on, contact an authorized Kia dealer and have the system checked.

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.

⚠ WARNING

Do not operate the electric parking brake while the vehicle is moving except in an emergency situation. Applying the electric 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 electric parking brake to stop the vehicle, use great caution in applying the brake.

✱ NOTICE

During emergency braking by the EPB, the parking brake warning light will illuminate to indicate that the system is operating.

If you notice a continuous noise or burning smell when the EPB is used for emergency braking, have your vehicle checked by an authorized Kia dealer.

When the EPB (electric parking brake) is not released

If the EPB does not release normally, take your vehicle to an authorized Kia dealer by loading the vehicle on a flatbed tow truck and have the system checked.

Anti-lock brake system (ABS)

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 vehicle should be driven at reduced speeds in the following circumstances:

- When driving on rough, gravel or snow-covered roads
- When driving on roads where the road surface is pitted or has different surface heights.

Driving in these conditions increase the stopping distance for your vehicle.

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.

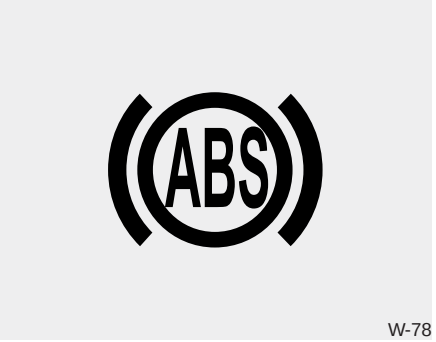
When you apply your brakes under conditions which may lock the wheels, you may hear a “tik-tik” sound from the brakes, or feel a corresponding sensation in the brake pedal. This is normal and it means your ABS is active.

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 allows the ABS to control the force being delivered to the brakes.

✻ NOTICE

A click sound may be heard in the motor compartment when the vehicle begins to move after the vehicle 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.



W-78

The ABS warning light will stay on for approximately 3 seconds after the POWER button is ON. During that time, the ABS will go through self-diagnosis and the light will go off if everything is normal. If the light stays on, you may have a problem with your ABS. Contact an authorized Kia dealer as soon as possible.

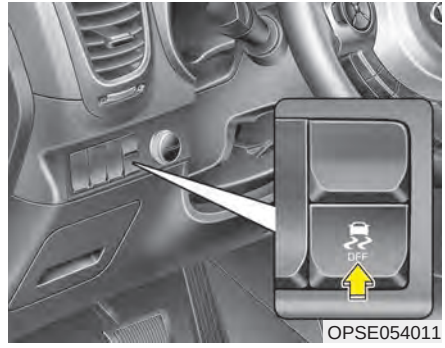
- When you drive on a road having poor traction, such as an icy road, and have operated your brakes continuously, the ABS will be active continuously and the ABS warning light may illuminate. Pull your vehicle over to a safe place and turn off the POWER button.
- Restart the vehicle. If the ABS warning light goes off, then your ABS system is normal. Otherwise, you may have a problem with the ABS. Contact an authorized Kia dealer as soon as possible.

✻ NOTICE

When you jump start your vehicle because of a drained battery, the ABS warning light may turn on. This happens because of low battery voltage. It does not mean your ABS has malfunctioned.

- **Do not pump your brakes!**
- **Have the battery recharged before driving the vehicle.**

Electronic stability control (ESC)



OPSE054011

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 on individual wheels to stabilize the vehicle.

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 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 motor compartment when the vehicle begins to move after the vehicle is started. These conditions are normal and indicate that the Electronic Stability Control System is functioning properly.

ESC operation

ESC ON condition

-

- When the POWER button is turned ON, ESC and ESC OFF indicator lights illuminate for approximately 3 seconds, then ESC is turned on.
- Press the ESC OFF button for at least half a second 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 vehicle, you may hear a slight ticking sound. This is the ESC performing an automatic system self-check and does not indicate a problem.

When operating

When the ESC is in operation, the ESC indicator light blinks.

- When the Electronic Stability Control is operating properly, you can feel a slight pulsation in the vehicle. This is only the effect of brake control and indicates nothing unusual.

⚠ WARNING

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.

ESC operation off

ESC OFF state

This car has 2 kinds of ESC off states.

If the POWER button is turn off when ESC is off, ESC remains off. Upon restarting the vehicle, the ESC will automatically turn on again.

OPSE054013L

• ESC off state 1

To cancel ESC operation, press the ESC OFF button (ESC OFF) shortly (ESC OFF indicator light (ESC OFF) illuminates). At this state, the vehicle control function does not operate. It means the traction control function does not operate. Brake control function only operates.

OPSE054014L

• ESC off state 2

To cancel ESC operation, press the ESC OFF button (ESC OFF) for more than 3 seconds. ESC OFF indicator light (ESC OFF) illuminates and ESC OFF warning chime will sound. At this state, the vehicle control function and brake control function do not operate. It means the car stability control function does not operate any more.

Indicator light

■ ESC indicator light

■ ESC OFF indicator light

When POWER button 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.

The ESC OFF indicator light comes on when the ESC is turned off with the button.

⚠ 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.

⚠ WARNING - Electronic stability control

Drive carefully even though your vehicle has Electronic Stability Control. It can only assist you in maintaining control under certain circumstances.

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.

⚠ WARNING - Operating ESC

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). If the ESC is left on, it may prevent the vehicle speed from increasing, and result in false diagnosis.**
- **Turning the ESC off does not affect ABS or brake system operation.**

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 detects changes in coefficient of friction between right wheels and left wheels when braking.

VSM operation

When the VSM is in operation, ESC indicator light ( ) blinks.

When the vehicle stability management is operating properly, you can feel a slight pulsation in the vehicle and/or abnormal steering responses (EPS). This is only the effect of brake and EPS control and indicates nothing unusual.

The VSM does not operate when:

- Driving on bank road such as gradient or incline
- Driving in reverse
- 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.

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, take your vehicle to an authorized Kia dealer and have the system checked.

✻ NOTICE

- **The VSM is designed to function above approximately 22 km/h (13 mph) on curves.**
- **The VSM is designed to function above approximately 10 km/h (6 mph) when a vehicle is braking on a split-mu road. The split-mu road is made of surfaces which have different friction forces.**
- 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 in clement weather and on a slippery road.

Hill-start assist control (HAC)

A vehicle has the tendency to roll back on a steep hill when it starts to go after stopping. The Hill-start Assist Control (HAC) prevents the vehicle from rolling back by applying the brakes automatically for about 2 seconds. The brakes are released when the accelerator pedal is depressed or after about 2 seconds.

The HAC is activated only for about 2 seconds, so when the vehicle is starting off always depress the accelerator pedal.

⚠ WARNING - Maintaining Brake Pressure on Incline

HAC does not replace the need to apply brakes while stopped on an incline. While stopped, make sure you maintain brake pressure sufficient to prevent your vehicle from rolling backward and causing an accident. Don’t release the brake pedal until you are ready to accelerate forward.

Good braking practices

- Check to be sure the parking brake is not engaged and 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 vehicle is washed. Wet brakes can be dangerous! Your vehicle will not stop as quickly if the brakes are wet. Wet brakes may cause the vehicle to pull to one side.

  To dry the brakes, apply the brakes lightly until the braking action returns to normal, taking care to keep the vehicle under control at all times. If the braking action does not return to normal, stop as soon as it is safe to do so and call an authorized Kia dealer for assistance.
- Don't coast down hills with the vehicle out of gear. This is extremely hazardous. Keep the vehicle in gear at all times, use the brakes to slow down, then shift to a lower gear so that regenerative 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 the brakes might overheat and lose 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 vehicle pointed straight ahead while you slow down. When you are moving slowly enough for it to be safe to do so, pull off the road and stop in a safe place.

- If your vehicle is equipped with an automatic transaxle, don't let your vehicle creep forward. To avoid creeping forward, keep your foot firmly on the brake pedal when the vehicle is stopped.
- Be cautious when parking on a hill. Firmly engage the parking brake and place the shift lever in P (automatic transaxle). 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 P (automatic transaxle) 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 transaxle to overheat. Always use the brake pedal or parking brake.

CRUISE CONTROL SYSTEM (IF EQUIPPED)

1. Cruise indicator
2. Cruise set indicator

The cruise control system allows you to program the vehicle to maintain a constant speed without pressing the accelerator pedal.

This system is designed to function above approximately 30 km/h (20 mph).

- 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 driving in heavy or varying traffic, or on slippery (rainy, icy or snow-covered) or winding roads or over 6% up-hill or down-hill roads.

⚠ WARNING - Misuse of Cruise Control

Do not use cruise control if the traffic situation does not allow you to drive safely at a constant speed and with sufficient distance to the vehicle in front.

✻ 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. The delay is normal.**
- **To activate cruise control, depress the brake pedal at least once after turning the POWER button to the ON position or starting the vehicle. This is to check if the brake switch which is important part to cancel cruise control is in normal condition.**

Cruise control switch

OPS053016

CRUISE : Turns cruise control system on or off.

CANCEL: Cancels cruise control operation.

RES+: Resumes or increases cruise control speed.

SET-: Sets or decreases cruise control speed.

To set cruise control speed:

OPS053017

1. Press the CRUISE button on the steering wheel to turn the system on. The CRUISE indicator light in the instrument cluster will illuminate.
2. Accelerate to the desired speed, which must be more than 30 km/h (20 mph).

OPS053018

3. Push the SET - switch, and release it at the desired speed. The SET indicator light in the instrument cluster 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 uphill or downhill.

To increase cruise control set speed:

OPS053019

Follow either of these procedures:

- Push the RES + switch and hold it. Your vehicle will accelerate. Release the lever at the speed you want.
- Push the RES + switch and release it immediately.

  The cruising speed will increase by 2km/h (or 1 mph) each time you move the lever up (to RES+) in this manner.

To decrease the cruising speed:

OPS053018

Follow either of these procedures:

- Push the SET - switch and hold it. Your vehicle will gradually slow down. Release the lever at the speed you want to maintain.
- Push the SET - switch and release it immediately.

  The cruising speed will decrease by 2 km/h (1 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.

To cancel cruise control, do one of the following:

OPS053020

- Press the brake pedal.
- Shift into N (Neutral).
- Push the CANCEL switch located on the steering wheel.
- Decrease the vehicle speed lower than the memory speed by approximately 20km/h (12mph).
- Decrease the vehicle speed to less than approximately 25 km/h (15 mph).
- Pull up the EPB(Electric parking brake) switch.

Each of these actions will cancel cruise control operation (the SET indicator light in the instrument cluster will go off), but it will not turn the system off. If you wish to resume cruise control operation, push the RES + switch located on your steering wheel. You will return to your previously preset speed.

To resume cruising speed at more than approximately 30 km/h (20 mph):

OPS053019

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 the RES+ switch is pushed.

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:

OPS053017

- Press the CRUISE button (the CRUISE indicator light in the instrument cluster will go off).
- Turn the vehicle 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.

ECONOMICAL OPERATION

Your vehicle's energy economy depends mainly on your style of driving, where you drive and when you drive.

Each of these factors affects how many miles (kilometers) you can get from a capacity (kwh) of battery. To operate your vehicle as economically as possible, use the following driving suggestions to help save money in both energy and repairs:

- Drive smoothly. Accelerate at a moderate rate. Don't make "jack-rabbit" starts or full-throttle shifts and maintain a steady cruising speed. Don't race between stop-lights. 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 energy your vehicle uses. Driving at a moderate speed, especially on the highway, is one of the most effective ways to reduce energy consumption.
- Don't "ride" the brake pedal. This can increase energy 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 energy consumption.
- Keep your vehicle in good condition. For better energy economy and reduced maintenance costs, maintain your vehicle in accordance with the maintenance schedule in section 7. If you drive your vehicle in severe conditions, more frequent maintenance is required (see section 7 for details).
- Keep your vehicle 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 vehicle. This extra weight can result in increased energy consumption and also contribute to corrosion.

- Travel lightly. Don't carry unnecessary weight in your vehicle. Weight reduces energy economy.
- Open windows at high speeds can reduce energy economy.
- Energy 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 an authorized Kia dealer perform scheduled inspections and maintenance.

⚠ WARNING
- Vehicle off during motion

Never turn the POWER button off to coast down hills or anytime the vehicle is in motion. The power steering and power brakes will not function properly without the vehicle is in the ready ( ) mode. In addition, turning off the POWER button while driving could engage the steering wheel lock resulting in loss of vehicle steering. Keep the vehicle is in the ready ( ) mode and gear lever in B(Braking) position for engine braking effect.

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.

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, or other non-slip material under the drive wheels to provide traction when stalled in ice, snow, or mud.

⚠ WARNING - Downshifting

Do not downshift with an automatic transaxle while driving on slippery surfaces. The sudden change in tire speed could cause the tires to skid and result in an accident.

Reducing the risk of a rollover

This multi-purpose passenger vehicle is defined as a Crossover Utility Vehicle (CUV). CUV's have higher ground clearance and a narrower track to make them capable of performing in a wide variety of off-road applications. Specific design characteristics give them a higher center of gravity than ordinary vehicles. An advantage of the higher ground clearance is a better view of the road, which allows you to anticipate problems. They are not designed for cornering at the same speeds as conventional passenger vehicles, any more than low-slung sports vehicles are designed to perform satisfactorily in off-road conditions. Due to this risk, driver and passengers are strongly recommended to buckle their seat belts. In a rollover crash, an unbelted person is more likely to die than a person wearing a seat belt. There are steps that a driver can make to reduce the risk of a rollover.

If at all possible, avoid sharp turns or abrupt maneuvers, do not load your roof rack with heavy cargo, and never modify your vehicle in any way.

⚠ WARNING - Replacement tires

Always use the size and type of tires recommended in the tire section of the manual. Installation of variant tires can affect the safety and performance of your vehicle.

Rocking the vehicle

If it is necessary to rock the vehicle to free it from snow, sand, or mud, first turn the steering wheel right and left to clear the area around your front wheels. Then, shift back and forth between R (Reverse) and any forward gear. Do not race the vehicle, 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 overheating and possible damage to the gear.

⚠ WARNING - Sudden vehicle movement

Do not attempt to rock the vehicle if people or objects are nearby. The vehicle may suddenly move forward or backwards as it becomes unstuck.

⚠ CAUTION - Vehicle rocking

Prolonged rocking may cause overheating, gear damage or failure, and tire damage.

⚠ CAUTION - 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.

The ESC system should be turned OFF prior to rocking the vehicle.

Smooth cornering

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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

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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

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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 or 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.

Never exceed the maximum tire inflation pressure shown on the tires.

⚠ WARNING - Under/over inflated tires

Always check the tires for proper inflation before driving. Underinflated or overinflated tires can cause poor handling, loss of vehicle control, and sudden tire failure leading to accidents, injuries, and even death. For proper tire pressures, refer to "Tires and wheels" in section 8.

⚠ WARNING - Tire tread

Always check the tire tread before driving your vehicle. Worn-out tires can result in loss of vehicle control. Worn-out tires should be replaced as soon as possible. For further information and tread limits, refer to "Tires and wheels" in section 7.

WINTER DRIVING

Severe weather conditions in the winter result in greater wear and other problems. To minimize the problems of winter driving, you should follow these suggestions:

Snowy or icy conditions

To drive your vehicle in deep snow, it may be necessary to use snow tires 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 vehicle. Furthermore, speeding, rapid acceleration, sudden brake applications, and sharp turns are potentially very hazardous practices.

During deceleration, use regenerative 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 of your vehicle. Also, apply the brake gently.

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.

Do not install studded tires without first checking local, state and municipal regulations for possible restrictions against their use.

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 7. 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 7. The level of charge in your battery can be checked by an authorized Kia dealer or a service station.

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 and most auto parts outlets. Do not use 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 gear shift lever in P (Park, automatic transaxle) 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 vehicle to be sure the movement of the front wheels and the steering components are not obstructed.

Carry emergency equipment

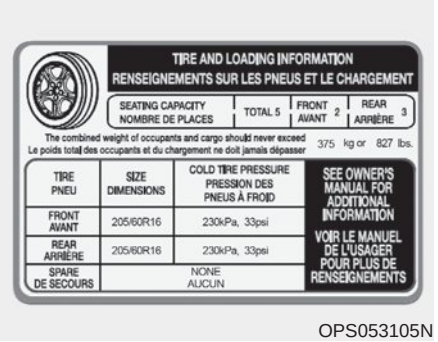
Depending on the severity of the weather, you should carry appropriate emergency equipment. Some of the items you may want to carry include tow straps or chains, flashlight, emergency flares, sand, shovel, jumper cables, window scraper, gloves, ground cloth, coveralls, blanket, etc.

TRAILER TOWING

We do not recommend using this vehicle for trailer towing.

VEHICLE LOAD LIMIT

Tire and loading information label



OPS053105N

The label located on the driver's door sill gives the original tire size, cold tire pressures recommended for your vehicle, the number of people that can be in your vehicle and vehicle capacity weight.

Vehicle capacity weight:

375 kg (827 lbs.)

Vehicle capacity weight is the maximum combined weight of occupants and cargo. If your vehicle is equipped with a trailer, the combined weight includes the tongue load.

Seating capacity:

Total - 5 persons
(Front seat : 2 persons,
Rear seat : 3 persons)

Seating capacity is the maximum number of occupants including a driver, your vehicle may carry.

However, the seating capacity may be reduced based upon the weight of all of the occupants, and the weight of the cargo being carried or towed.

Do not overload the vehicle as there is a limit to the total weight, or load limit including occupants and cargo, the vehicle can carry.

Towing capacity:

We do not recommend using this vehicle for trailer towing.

Cargo capacity:

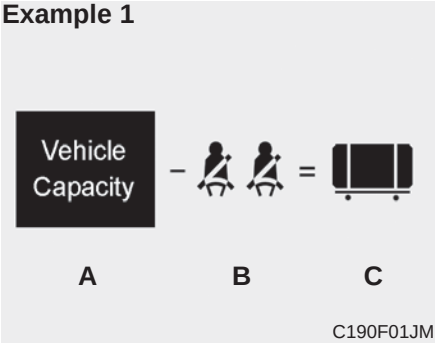
The cargo capacity of your vehicle will increase or decrease depending on the weight and the number of occupants and the tongue load, if your vehicle is equipped with a trailer.

Steps for determining correct load limit

1. Locate the statement "The combined weight of occupants and cargo should never exceed XXX kg or XXX lbs." on your vehicle's placard.
2. Determine the combined weight of the driver and passengers that will be riding in your vehicle.
3. Subtract the combined weight of the driver and passengers from XXX kg or XXX lbs.
4. The resulting figure equals the available amount of cargo and luggage load capacity. For example, if the "XXX" amount equals 635 kg (1400 lbs.) and there will be five 68 kg (150 lbs.) passengers in your vehicle, the amount of available cargo and luggage load capacity is 295 kg (650 lbs).

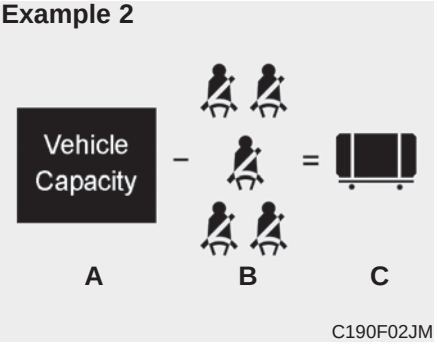
   (635-340 (5 x 68) = 295 kg or 1400-750 (5 x 150) = 650 lbs.)
5. Determine the combined weight of luggage and cargo being loaded on the vehicle. That weight may not safely exceed the available cargo and luggage load capacity calculated in Step 4.
6. If your vehicle will be towing a trailer, load from your trailer will be transferred to your vehicle. Consult this manual to determine how this reduces the available cargo and luggage load capacity of your vehicle.

Example 1



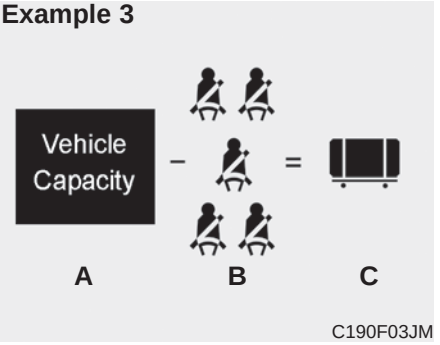
Item	Description	Total
A	Vehicle Capacity Weight	635 kg (1400 lbs)
B	Subtract Occupant Weight 68 kg (150 lbs) × 2	136 kg (300 lbs)
C	Available Cargo and Luggage weight	499 kg (1100 lbs)

Example 2



Item	Description	Total
A	Vehicle Capacity Weight	635 kg (1400 lbs)
B	Subtract Occupant Weight 68 kg (150 lbs) × 5	340 kg (750 lbs)
C	Available Cargo and Luggage weight	295 kg (650 lbs)

Example 3



Item	Description	Total
A	Vehicle Capacity Weight	635 kg (1400 lbs)
B	Subtract Occupant Weight 78 kg (172 lbs) × 5	390 kg (860 lbs)
C	Available Cargo and Luggage weight	245 kg (540 lbs)

Refer to your vehicle’s tire and loading information label for specific information about your vehicle's capacity weight and seating positions. The combined weight of the driver, passengers and cargo should never exceed your vehicle's capacity weight.

Certification label

The certification label is located on the driver's door sill at the center pillar.

This label shows the maximum allowable weight of the fully loaded vehicle. This is called the GVWR (Gross Vehicle Weight Rating). The GVWR includes the weight of the vehicle, all occupants, fuel and cargo.

This label also tells you the maximum weight that can be supported by the front and rear axles, called Gross Axle Weight Rating (GAWR).

To find out the actual loads on your front and rear axles, you need to go to a weigh station and weigh your vehicle. Your dealer can help you with this. Be sure to spread out your load equally on both sides of the centerline.

⚠ WARNING - Over loading

Never exceed the GVWR for your vehicle, the GAWR for either the front or rear axle and vehicle capacity weight. Exceeding these ratings can affect your vehicle's handling and braking ability.

The label will help you decide how much cargo and installed equipment your vehicle can carry.

If you carry items inside your vehicle - like suitcases, tools, packages, or anything else - they are moving as fast as the vehicle. If you have to stop or turn quickly, or if there is a crash, the items will keep going and can cause an injury if they strike the driver or a passenger.

⚠ WARNING - Over loading

Do not overload your vehicle. Overloading your vehicle can cause heat buildup in your vehicle's tires and possible tire failure, increased stopping distances and poor vehicle handling all of which may result in a crash.

✻ NOTICE

Overloading your vehicle may cause damage. Repairs would not be covered by your warranty. Do not overload your vehicle.

⚠ WARNING - Loose cargo

Do not travel with unsecured blunt objects in the passenger compartment of your vehicle (e.g. suit cases or unsecured child seats). These items may strike occupant during a sudden stop or crash.

VEHICLE WEIGHT GLOSSARY

This section will guide you in the proper loading of your vehicle and/or trailer, to keep your loaded vehicle weight within its design rating capability, with or without a trailer. 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, with or without a trailer, from the vehicle's specifications and the certification label:

Base curb weight

This is the weight of the vehicle including all standard equipment. It does not include passengers, cargo, or optional equipment.

Vehicle curb weight

This is the weight of your new vehicle when you picked it up from your dealer plus any aftermarket equipment.

Cargo weight

This figure includes all weight added to the Base Curb Weight, including cargo and optional equipment.

GAW (Gross axle weight)

This is the total weight placed on each axle (front and rear) - including vehicle curb weight and all payload.

GAWR (Gross axle weight rating)

This is the maximum allowable weight that can be carried by a single axle (front or rear). These numbers are shown on the certification label.

The total load on each axle must never exceed its GAWR.

GVW (Gross vehicle weight)

This is the Base Curb Weight plus actual Cargo Weight plus passengers.

GVWR (Gross vehicle weight rating)

This is the maximum allowable weight of the fully loaded vehicle (including all options, equipment, passengers and cargo). The GVWR is shown on the certification label located on the driver’s door sill.

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ROAD WARNING

Hazard warning flasher

The hazard warning flasher serves as a warning to other drivers to exercise extreme caution when approaching, overtaking, or passing your vehicle.

It should be used whenever emergency repairs are being made or when the vehicle is stopped near the edge of a roadway.

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.

IN CASE OF AN EMERGENCY WHILE DRIVING

If the vehicle stalls at a crossroad or crossing

If the vehicle 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 you have a flat tire while driving

If a tire goes flat while you are driving:

1. 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 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 transaxle in P.
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 the vehicle 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 vehicle again. If your vehicle will not start, contact an authorized Kia dealer or seek other qualified assistance.

IF THE VEHICLE WILL NOT START

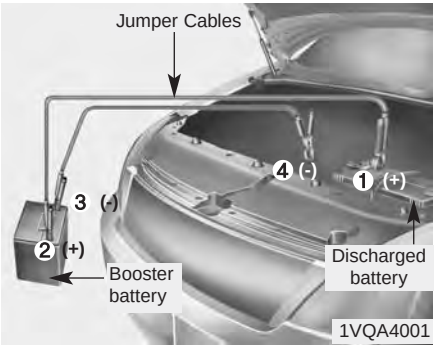
If vehicle doesn't turn over or turns over slowly

1. Be sure the shift lever is in N (Neutral) or P (Park) and the emergency brake is set.
2. Check the battery connections to be sure they are clean and tight.
3. Turn on the interior light. If the light dims or goes out when you operate the starter, the battery is discharged.
4. Check the starter connections to be sure they are securely tightened.
5. Do not push or pull the vehicle to start it. See instructions for "Jump starting".

⚠ WARNING - Push/pull start

Do not push or pull the vehicle to start it. Push or pull starting may cause motor damage.

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 these jump starting procedures. If in doubt, we strongly recommend that you have a competent technician or towing service jump start your vehicle.

⚠ CAUTION - 12 volt battery

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 - Battery

Never attempt to check the electrolyte level of the battery as this may cause the battery to rupture or explode causing serious injury.

⚠ WARNING - Frozen batteries

Do not attempt to jump start the vehicle if the discharged battery is frozen or if the electrolyte level is low as the battery may rupture or explode.

⚠ WARNING - Battery

Keep all flames or sparks away from the battery. The battery produces hydrogen gas which will explode if exposed to flame or sparks.

⚠ WARNING - Sulfuric acid risk

When jump starting your vehicle be careful not to get acid on yourself, your clothing or on the vehicle. Automobile batteries contain sulfuric acid. This is poisonous and highly corrosive.

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 to 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 of the booster battery (2).

   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 away from the battery (4). Do not connect it to or near any part that moves when the vehicle is started.

   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.

⚠ WARNING - 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.

5. Start the vehicle with the booster battery and the auxiliary battery begins to charge when EV ready light glows, then start the vehicle with the discharged battery. If the first starting attempt is not successful, wait a few minutes before making another attempt in order to allow the discharged battery to recharge.

If the cause of your battery discharging is not apparent, you should have your vehicle checked by an authorized Kia dealer.

Push-starting

Your reduction gear equipped vehicle should not be push-started.

⚠ WARNING - Tow starting vehicle

Never tow a vehicle to start it because this could result in motor damage.

IF THE VEHICLE OVERHEATS

1. Pull off the road and stop as soon as it is safe to do so.
2. Place the shift lever in P and set the parking brake. If the air conditioning is on, turn it off.
3. If coolant is running out under the vehicle or steam is coming out from underneath the hood, stop the vehicle. Do not open the hood until the coolant has stopped running or the steaming has stopped. If there is no visible loss of coolant and no steam, leave the vehicle running and check to be sure cooling fan is operating. If the fan is not running, turn the vehicle off.
4. Check for coolant leaking from the radiator, hoses or under the vehicle. (If the air conditioning had been in use, it is normal for cold water to be draining from it when you stop).

⚠ WARNING - Radiator cap

Do not remove the radiator cap when the radiator is hot. This may result in coolant being blown out of the opening and cause serious burns.

5. If you cannot find the cause of the overheating, wait until the radiator 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.
6. Proceed with caution, keeping alert for further signs of overheating. If overheating happens again, call an authorized Kia dealer for assistance.

Serious loss of coolant indicates there is a leak in the cooling system and this should be checked as soon as possible by an authorized Kia dealer.

TIRE PRESSURE MONITORING SYSTEM (TPMS)

OPS063002/Q

OPSE044275L/Q

(1) Low tire pressure telltale / TPMS malfunction indicator

Each tire, including the spare (if provided), should be checked monthly when cold and inflated to the inflation pressure recommended by the vehicle manufacturer on the vehicle placard or tire inflation pressure label. (If your vehicle has tires of a different size than the size indicated on the vehicle placard or tire inflation pressure label, you should determine the proper tire inflation pressure for those tires.)

As an added safety feature, your vehicle has been equipped with a tire pressure monitoring system (TPMS) that illuminates a low tire pressure telltale when one or more of your tires is significantly under-inflated. Accordingly, when the low tire pressure telltale illuminates, you should stop and check your tires as soon as possible, and inflate them to the proper pressure. Driving on a significantly under-inflated tire causes the tire to overheat and can lead to tire failure. Under-inflation also reduces fuel efficiency and tire tread life, and may affect the vehicle's handling and stopping ability.

Please note that the TPMS is not a substitute for proper tire maintenance, and it is the driver's responsibility to maintain correct tire pressure, even if under-inflation has not reached the level to trigger illumination of the TPMS low tire pressure telltale.

Your vehicle has also been equipped with a TPMS malfunction indicator to indicate when the system is not operating properly. The TPMS malfunction indicator is combined with the low tire pressure telltale. When the system detects a malfunction, the telltale will flash for approximately one minute and then remain continuously illuminated. This sequence will continue upon subsequent vehicle start-ups as long as the malfunction exists. When the malfunction indicator is illuminated, the system may not be able to detect or signal low tire pressure as intended. TPMS malfunctions may occur for a variety of reasons, including the installation of replacement or alternate tires or wheels on the vehicle that prevent the TPMS from functioning properly.

Always check the TPMS malfunction telltale after replacing one or more tires or wheels on your vehicle to ensure that the replacement or alternate tires and wheels allow the TPMS to continue to function properly.

✻ NOTICE

If the TPMS, Low Tire Pressure indicator do not illuminate for 3 seconds when the ignition switch is turned to the ON position or vehicle is running, or if they remain illuminated after coming on for approximately 3 seconds, take your vehicle to your nearest authorized Kia dealer and have the system checked.

Low tire pressure telltale

When the tire pressure monitoring system warning indicators are illuminated, one or more of your tires is significantly under-inflated.

If the telltale illuminates, immediately reduce your speed, avoid hard cornering and anticipate increased stopping distances. You should stop and check your tires as soon as possible. Inflate the tires to the proper pressure as indicated on the vehicle's placard or tire inflation pressure label located on the driver's side center pillar outer panel. If you cannot reach a service station or if the tire cannot hold the newly added air, replace the low pressure tire with the spare tire.

Then the Low Tire Pressure telltale may flash for approximately one minute and then remain continuously illuminated after restarting and about 10 minutes of continuous driving at speed above 25 km/h (15.5 mph) before 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.

⚠ WARNING - Low pressure damage

Do not drive on low pressure tires. Significantly low tire pressure can cause the tires to overheat and fail making the vehicle unstable resulting in increased braking distances and a loss of vehicle control.

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. Have the system checked by an authorized Kia dealer as soon as possible to determine the cause of the problem.

- 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 transmitters 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 telltale will come on. Have the flat tire repaired by an authorized Kia dealer as soon as possible or replace the flat tire with the spare tire.

⚠ **CAUTION - Repair agents**

NEVER use a puncture-repairing agent to repair and/or inflate a low pressure tire. The tire sealant can damage the tire pressure sensor. If used, you will have to replace the tire pressure sensor.

Each wheel is equipped with a tire pressure sensor mounted inside the tire behind the valve stem. You must use TPMS specific wheels. It is recommended that you always have your tires serviced by an authorized Kia dealer.

Even if you replace the low pressure tire with the spare tire, the Low Tire Pressure telltale will remain on until the low pressure tire is repaired and placed on the vehicle.

After you replace the low pressure tire with the spare tire, the TPMS malfunction indicator may illuminate after a few minutes because the TPMS sensor mounted on the spare wheel is not initiated.

Once the low pressure tire is reinflated to the recommended pressure and installed on the vehicle or the TPMS sensor mounted on the replaced spare wheel is initiated by an authorized Kia dealer, the TPMS malfunction indicator and the low tire pressure telltale will extinguish within a few minutes of driving.

If the indicator is not extinguished after a few minutes of driving, please visit an authorized Kia dealer.

If an original mounted tire is replaced with the spare tire, the TPMS sensor on the replaced spare wheel should be initiated and the TPMS sensor on the original mounted wheel should be deactivated. If the TPMS sensor on the original mounted wheel located in the spare tire carrier still activates, the tire pressure monitoring system may not operate properly. Have the tire with TPMS serviced or replaced by an authorized Kia dealer.

You may not be able to identify a low tire by simply looking at it. Always use a good quality tire pressure gauge to measure the tire's inflation pressure. Please note that a tire that is hot (from being driven) will have a higher pressure measurement than a tire that is cold (from sitting stationary for at least 3 hours and driven less than 1.6 km (1 mile) during that 3 hour period).

Allow the tire to cool before measuring the inflation pressure. Always be sure the tire is cold before inflating to the recommended pressure.

Do not use any tire sealant if your vehicle is equipped with a Tire Pressure Monitoring System. The liquid sealant can damage the tire pressure sensors.

- 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.

✻ NOTICE - 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.

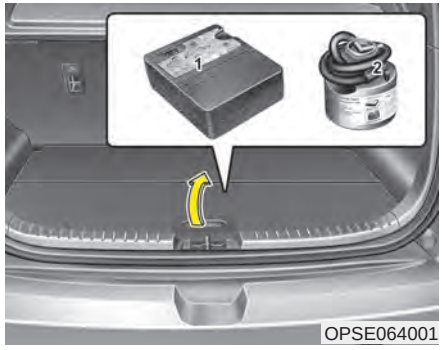
This device complies with Industry Canada licence-exempt RSS standard (s).

Operation is subject to the following two conditions:

(1) This device may not cause interference, and

(2) This device must accept any interference, including interference that may cause undesired operation of the device.

IF YOU HAVE A FLAT TIRE (TIRE MOBILITY KIT)



OPSE064001

For safe operation, carefully read and follow the instructions in this manual before use.

(1) Compressor

(2) Sealant bottle

The Tire Mobility Kit is a temporary fix to the tire and the tire should be inspected by an authorized Kia dealer as soon as possible.

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.

Introduction

OPSE064002

With the Tire Mobility Kit you stay mobile even after experiencing a tire puncture.

The system of compressor and sealing compound effectively and comfortably seals most punctures in a passenger car tire caused by nails or similar objects and reinflates the tire.

After you ensured that the tire is properly sealed you can drive cautiously on the tire (distance up to 200 km (120 miles)) at a max. speed of (80 km/h) in order to reach a service station or tire dealer for the tire replacement.

It is possible that some tires, especially with larger punctures or damage to the sidewall, cannot be sealed completely.

Air pressure loss in the tire may adversely affect tire performance.

For this reason, you should avoid abrupt steering or other driving maneuvers, especially if the vehicle is heavily loaded or if a trailer is in use.

The Tire Mobility Kit is not designed or intended as a permanent tire repair method and is to be used for one tire only.

This instruction shows you step by step how to temporarily seal the puncture simply and reliably.

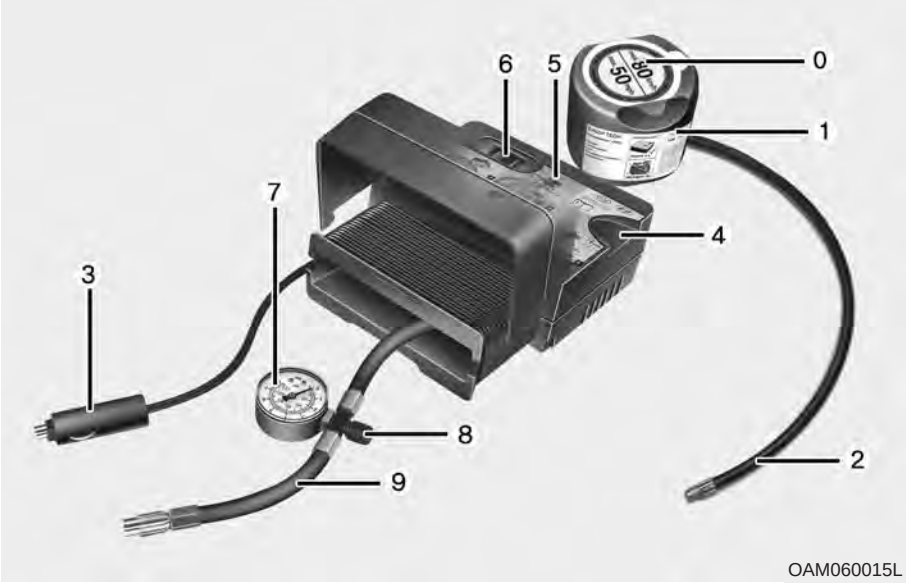
Read the section "Notes on the safe use of the Tire Mobility Kit".

Notes on the suggested use of the Tire Mobility Kit

- Park your car at the side of the road so that you can work with the Tire Mobility Kit away from moving traffic.
- To be sure your vehicle will not move, even when you're on fairly level ground, always set your parking brake.
- Only use the Tire Mobility Kit for sealing/inflation passenger car tires. Only punctured areas located within the tread region of the tire can be sealed using the tire mobility kit.
- Do not use on motorcycles, bicycles or any other type of tires.
- When the tire and wheel are damaged, do not use Tire Mobility Kit for your safety.
- Use of the Tire Mobility Kit may not be effective for tire damage larger than approximately 6 mm (0.24 in).

  Please contact the nearest Kia dealership if the tire cannot be made roadworthy with the Tire Mobility Kit.
- Do not use the Tire Mobility Kit if a tire is severely damaged by driving run flat or with insufficient air pressure.
- Do not remove any foreign objects such as nails or screws that have penetrated the tire.
- Provided the car is outdoors, leave the vehicle running. Otherwise operating the compressor may eventually drain the car battery.
- Never leave the Tire Mobility Kit unattended while it is being used.
- Do not leave the compressor running for more than 10 min. at a time or it may overheat.
- Do not use the Tire Mobility Kit if the ambient temperature is below -30°C (-22°F).
- Before using the TMK, read the precautionary advice printed on the sealant bottle!

Components of the Tire Mobility Kit



0. Speed restriction label
1. Sealant bottle and label with speed restriction
2. Filling hose from sealant bottle to wheel
3. Connectors and cable for the power outlet direct connection
4. Holder for the sealant bottle
5. Compressor
6. On/off switch
7. Pressure gauge for displaying the tire inflation pressure
8. Screw cap for reducing tire inflation pressure
9. Hose to connect compressor and sealant bottle or compressor and wheel

Connectors, cable and connection hose are stored in the compressor housing.

⚠ WARNING - Expired sealant

Do not use the Tire sealant after the sealant has expired (i.e. pasted the expiration date on the sealant container). This can increase the risk of tire failure.

⚠ WARNING - Sealant

- **Keep out of reach of children.**
- **Avoid contact with eyes.**
- **Do not swallow.**

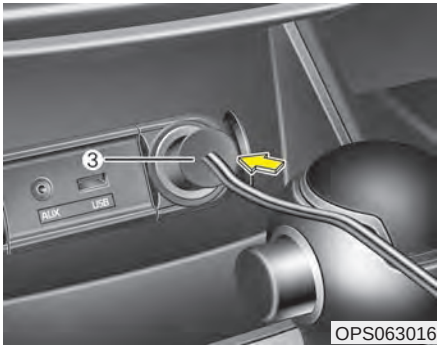
Strictly follow the specified sequence, otherwise the sealant may escape under high pressure.

Using the Tire Mobility Kit

1. Detach the speed restriction label (0) from the sealant bottle (1), 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. Screw connection hose (9) onto the connector of the sealant bottle.
3. Ensure that screw cap (8) is closed.
4. Unscrew the valve cap from the valve of the defective wheel and screw filling hose (2) of the sealant bottle onto the valve.
5. Insert the sealant bottle into the housing (4) of the compressor so that the bottle is upright.

OPSE064002

6. Ensure that the compressor is switched off, position 0.



OPS063016

7. Plug the compressor power cord (3) into the front passenger side power outlet (180W) of the vehicle.

Only use the front passenger side power outlet when connecting the power cord.

8. With the vehicle start/stop button position on or ignition switch position on, switch on the compressor and let it run for approximately 5~7 minutes to fill the sealant up to proper pressure. (refer to the Tire and Wheels, chapter 8). The inflation pressure of the tire after filling is unimportant and will be checked/corrected later.

   Be careful not to overinflate the tire and stay away from the tire when filling it.

⚠ WARNING - Tire pressure

Do not attempt to drive your vehicle if the tire pressure is below 200 kPa (29 psi).
This could result in an accident due to sudden tire failure.

9. Switch off the compressor.
10. Detach the hoses from the sealant bottle connector and from the tire valve.

Return the Tire Mobility Kit to its storage location in the vehicle.

⚠ WARNING - Carbon monoxide

Do not leave your vehicle running in a poorly ventilated area for extended periods of time. Carbon monoxide poisoning and suffocation can occur.

Distributing the sealant

11. Immediately drive approximately 7~10km (4~6miles or, about 10min) to evenly distribute the sealant in the tire.

Do not exceed a speed of 80 km/h (50 mph). If possible, do not fall below a speed of 20 km/h (12 mph).

While driving, if you experience any unusual vibration, ride disturbance or noise, reduce your speed and drive with caution until you can safely pull off of the side of the road.

Call for road side service or towing.

When you use the Tire Mobility Kit, the tire pressure sensors and wheel may be damaged by sealant, remove the sealant stained with tire pressure sensors and wheel and inspect in authorized dealer.

Checking the tire inflation pressure

1. After driving approximately 7~10km (4~6miles or about 10min), stop at a safety location.
2. Connect connection hose (9) of the compressor directly to the tire valve.
3. Plug the compressor power cord into the vehicle power outlet.
4. Adjust the tire inflation pressure to the recommended tire inflation.

   With the ignition switched on, proceed as follows.

   - **To increase the inflation pressure :** Switch on the compressor, position I. To check the current inflation pressure setting, briefly switch off the compressor.

✻ NOTICE

The pressure gauge may show higher than actual reading when the compressor is running. To get an accurate tire pressure, the compressor needs to be turned off.

- **To reduce the inflation pressure:** Loosen the screw cap (8) on the compressor hose.

⚠ CAUTION - Tire pressure sensor

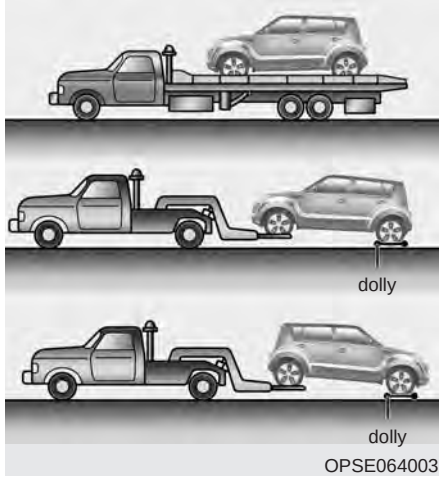
When you use the Tire Mobility Kit including sealant not approved by Kia, the tire pressure sensors may be damaged by sealant. The sealant on the tire pressure sensor and wheel should be removed when you replace the tire with a new one and inspect the tire pressure sensors in authorized dealer.

Technical Data

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: 170 x 150 x 60 mm
(6.7 x 5.9 x 2.4 in.)
Sealant bottle: 85 x 70 ø mm
(3.3 x 2.8 ø in.)
Compressor weight:
0.8 kg (1.77 lbs)
Sealant volume:
200 ml (12.2 cu. in.)

TOWING

Towing service



OPSE064003

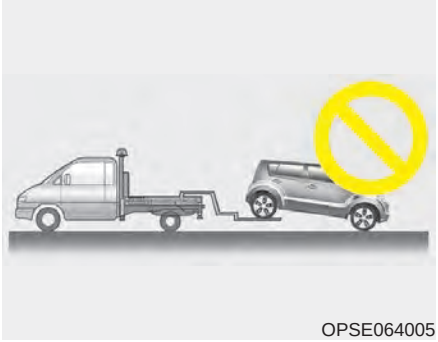
If emergency towing is necessary, we recommend having it done by an authorized Kia dealer or a commercial tow-truck service. Proper lifting and towing procedures are necessary to prevent damage to the vehicle. The use of wheel dollies or flatbed is recommended.

For trailer towing guidelines information, refer to "Trailer towing" in chapter 5.

If towing is required, lift all four wheels off the ground and tow the vehicle. If you must tow the vehicle using only two wheels, lift the front wheels off the ground and tow the vehicle.

⚠ WARNING - Towing EV

Never tow the vehicle with the front wheels on the ground (forward or backward), as this may cause damage to the motor or a vehicle fire.


OPSE064005

⚠ CAUTION - Towing

- ***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.***

⚠ WARNING

Never tow the vehicle with the front wheels on the ground (forward or backward), as this may cause damage to the motor or fire.

When towing your vehicle in an emergency without wheel dollies :

1. Set the ignition switch in the ACC position.
2. Place the transaxle shift lever in N (Neutral).
3. Release the parking brake.

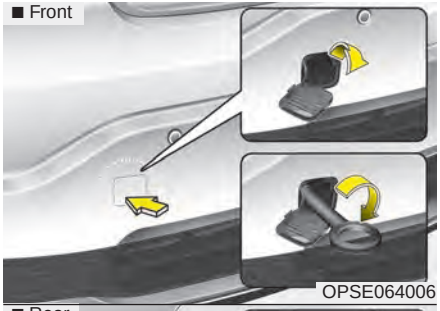
⚠ CAUTION - Towing gear position

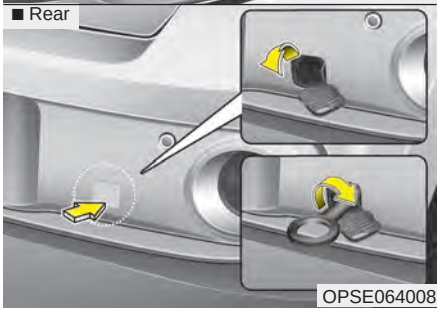
Failure to place the shift lever in N (Neutral) may cause internal damage to the transaxle.

⚠ WARNING

- **If you tow the vehicle while the front wheels are touching the ground, the vehicle motor may generate electricity and the motor components may be damaged or a fire may occur.**
- **When a vehicle fire occurs due to the battery, there is a risk of a second fire. Contact the fire department when towing the vehicle.**

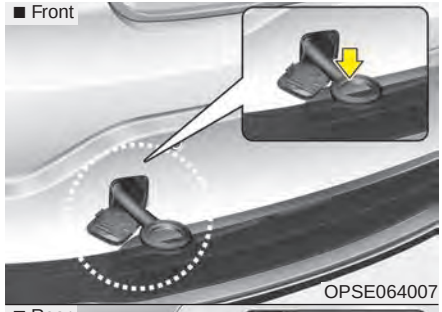
Removable towing hook

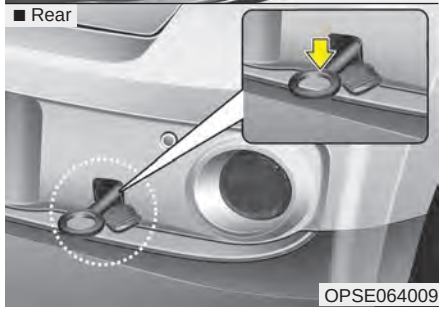




1. Remove the towing hook from the tool case.
2. Remove the hole cover pressing the lower part of the cover on the front bumper.
3. Install the towing hook by turning it clockwise into the hole until it is fully secured.
4. Remove the towing hook and install the cover after use.

Emergency towing



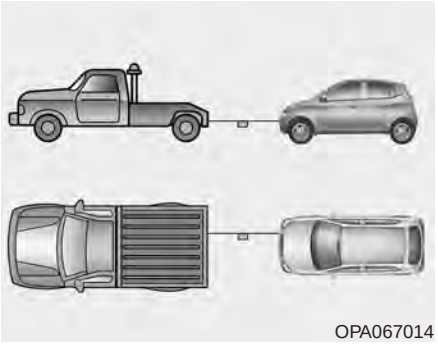


If towing is necessary, we recommend you to have it done by an authorized Kia dealer or a commercial tow truck service.

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 speeds. 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.
- 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.
- Only use a cable or chain specifically intended for use in towing vehicles. Securely fasten the cable or chain to the towing hook provided.
- Before emergency towing, check that the hook is not broken or damaged.
- Fasten the towing cable or chain securely to the hook.
- Do not jerk the hook. Apply 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.


OPA067014

- 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 loose during towing.

Emergency towing precautions

- Turn the ignition switch to ACC so the steering wheel isn't locked.
- Place the shift lever in N (Neutral).
- Release the parking bake.
- Press the brake pedal with more force than usual 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.

⚠ CAUTION

- ***To avoid serious damage to the reduction gear, 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 reduction gear for fluid leaks under your vehicle. If the reduction gear fluid is leaking, a flatbed equipment or towing dolly must be used.***

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MOTOR ROOM COMPARTMENT

1. Coolant reservoir
2. Brake fluid reservoir
3. Fuse box
4. Positive battery terminal
5. Negative battery terminal
6. Radiator cap
7. Windshield washer fluid reservoir

❊ The actual motor compartment in the vehicle may differ from the illustration.

OPSE074001

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.

Should you have any doubts concerning the inspection or servicing of your vehicle, we strongly recommend that you have an authorized Kia dealer perform this work.

An authorized Kia dealer has factory trained technicians and genuine Kia parts to service your vehicle properly. For expert advice and quality service, see an authorized Kia dealer.

Inadequate, incomplete or insufficient 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.

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 & Consumer Information manual.
Repairs and adjustments required as a result of improper maintenance or a lack of required maintenance are not covered.

We recommend you have your vehicle maintained and repaired by an authorized Kia dealer. An authorized Kia dealer meets Kia’s high service quality standards and receives technical support from Kia in order to provide you with a high level of service satisfaction.

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.

As explained earlier in this section, several procedures can be done only by an authorized Kia dealer with special tools.

✻ NOTICE

Improper owner maintenance during the warranty period may affect warranty coverage. For details, read the separate Warranty & Consumer Information manual provided with the vehicle. If you're unsure about any servicing or maintenance procedure, have it done by an authorized Kia dealer.

⚠ WARNING - Maintenance work

Do not wear jewelry or loose clothing while working under the hood of your vehicle with ready (⇄) mode. These can become entangled in moving parts, if you must run the vehicle in the ready (⇄) mode 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 cooling fans.

OWNER MAINTENANCE

The following lists are vehicle checks and inspections that should be performed by the owner or an authorized Kia dealer at the frequencies indicated to help ensure safe, dependable operation of your vehicle.

Any adverse conditions should be brought to the attention of your dealer as soon as possible.

These Owner Maintenance Checks are generally not covered by warranties and you may be charged for labor, parts and lubricants used.

Owner maintenance schedule

When you stop for fuel:

- Check the coolant level in the coolant reservoir.
- Check the windshield washer fluid level.
- Look for low or under-inflated tires.

  Check if the front of the radiator and condenser are clean and not blocked with leaves, dirt or insects etc. If any of the above parts are extremely dirty or you are not sure of their condition, take your vehicle to an authorized Kia dealer.

While operating your vehicle:

- Check for vibrations in the steering wheel. Notice any increased steering effort or looseness in the steering wheel, or change in its straight-ahead position.
- Notice if your vehicle constantly turns slightly or “pulls” to one side when traveling on smooth, level road.
- When stopping, listen and check for unusual sounds, pulling to one side, increased brake pedal travel or “hard-to-push” brake pedal.
- If any slipping or changes in the operation of your transaxle occurs, check the transaxle fluid level.
- Check the reduction gear P (Park) function.
- Check the parking brake.
- Check for fluid leaks under your vehicle (water dripping from the air conditioning system during or after use is normal).

At least monthly:

- Check the coolant level in the coolant reservoir.
- Check the operation of all exterior lights, including the stoplights, turn signals and hazard warning flashers.
- Check the inflation pressures of all tires including the spare.

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.
- Check for worn tires and loose wheel lug nuts.

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.
- Inspect and lubricate the reduction gear linkage and controls.
- Clean the battery and terminals.
- Check the brake fluid level.

SCHEDULED MAINTENANCE SERVICE

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 short distance driving.
- Driving in dusty conditions or sandy areas.
- Extensive use of brakes.
- Driving in areas where salt or other corrosive materials are being used.
- Driving on rough or muddy roads.
- Driving in mountainous areas.
- Extended periods of idling or low speed operation.
- Driving for a prolonged period in cold temperatures and/or extremely humid climates.
- More than 50% driving in heavy city traffic during hot weather above 32°C (90°F).

If your vehicle is operated under the above conditions, you should inspect, replace or refill more frequently than the following Normal Maintenance Schedule. After 120 months or 240,000 km (150,000 miles) continue to follow the prescribed maintenance intervals.

NORMAL MAINTENANCE SCHEDULE

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.

*[1] : When adding coolant, use only deionized water or soft water for your vehicle and never mix hard water in the coolant filled at the factory. An improper coolant mixture can result in serious malfunction or motor compartment damage.

NORMAL MAINTENANCE SCHEDULE (CONT.)

12,000 km (7,500 miles) or 6 months
❑ Inspect air conditioning compressor, air conditioner refrigerant and performance (if equipped)
❑ Inspect cooling system *1
❑ Inspect 12V battery condition
❑ Inspect brake lines, hoses and connections
❑ Inspect brake fluid
❑ Inspect disc brakes and pads
❑ Inspect suspension ball joints & mounting blots
❑ Inspect steering gear rack, linkage and boots
❑ Inspect brake pedal
❑ Inspect drive shafts and boots
❑ Rotate tires - including tire pressure and tread wear (Every 6,000 km (3,750 miles) or 6 months)
❑ Replace climate control air filter (if equipped)

❊ Inspect : Inspect and if necessary, adjust, correct, clean or replace.

24,000 km (15,000 miles) or 12 months
❑ Inspect air conditioning compressor, air conditioner refrigerant and performance (if equipped)
❑ Inspect cooling system *1
❑ Inspect 12V battery condition
❑ Inspect brake lines, hoses and connections
❑ Inspect brake fluid
❑ Inspect disc brakes and pads
❑ Inspect suspension ball joints & mounting blots
❑ Inspect steering gear rack, linkage and boots
❑ Inspect brake pedal
❑ Inspect drive shafts and boots
❑ Rotate tires - including tire pressure and tread wear (Every 6,000 km (3,750 miles) or 6 months)
❑ Replace climate control air filter (if equipped)

❊ Inspect : Inspect and if necessary, adjust, correct, clean or replace.

NORMAL MAINTENANCE SCHEDULE (CONT.)

36,000 km (22,500 miles) or 18 months
❑ Rotate tires - including tire pressure and tread wear (Every 6,000 km (3,750 miles) or 6 months)

48,000 km (30,000 miles) or 24 months
❑ Inspect air conditioning compressor, air conditioner refrigerant and performance (if equipped)
❑ Inspect cooling system *1
❑ Inspect 12V battery condition
❑ Inspect brake lines, hoses and connections
❑ Inspect brake fluid
❑ Inspect disc brakes and pads
❑ Inspect suspension ball joints & mounting blots
❑ Inspect steering gear rack, linkage and boots
❑ Inspect brake pedal
❑ Inspect drive shafts and boots
❑ Rotate tires - including tire pressure and tread wear (Every 6,000 km (3,750 miles) or 6 months)
❑ Replace climate control air filter (if equipped)

❊ Inspect : Inspect and if necessary, adjust, correct, clean or replace.

NORMAL MAINTENANCE SCHEDULE (CONT.)

60,000 km (37,500 miles) or 30 months
❑ Inspect reduction gear oil ❑ Rotate tires - including tire pressure and tread wear (Every 6,000 km (3,750 miles) or 6 months)

❊ Inspect : Inspect and if necessary, adjust, correct, clean or replace.

72,000 km (45,000 miles) or 36 months
❑ Inspect air conditioning compressor, air conditioner refrigerant and performance (if equipped) ❑ Inspect cooling system *1 ❑ Inspect 12V battery condition ❑ Inspect brake lines, hoses and connections ❑ Inspect brake fluid ❑ Inspect disc brakes and pads ❑ Inspect suspension ball joints & mounting blots ❑ Inspect steering gear rack, linkage and boots ❑ Inspect brake pedal ❑ Inspect drive shafts and boots ❑ Rotate tires - including tire pressure and tread wear (Every 6,000 km (3,750 miles) or 6 months) ❑ Replace climate control air filter (if equipped)

❊ Inspect : Inspect and if necessary, adjust, correct, clean or replace.

NORMAL MAINTENANCE SCHEDULE (CONT.)

84,000 km (52,500 miles) or 42 months
❑ Rotate tires - including tire pressure and tread wear (Every 6,000 km (3,750 miles) or 6 months)

96,000 km (60,000 miles) or 48 months
❑ Inspect air conditioning compressor, air conditioner refrigerant and performance (if equipped) ❑ Inspect cooling system *1 ❑ Inspect 12V battery condition ❑ Inspect brake lines, hoses and connections ❑ Inspect brake fluid ❑ Inspect disc brakes and pads ❑ Inspect suspension ball joints & mounting blots ❑ Inspect steering gear rack, linkage and boots ❑ Inspect brake pedal ❑ Inspect drive shafts and boots ❑ Rotate tires - including tire pressure and tread wear (Every 6,000 km (3,750 miles) or 6 months) ❑ Replace climate control air filter (if equipped)

❊ Inspect : Inspect and if necessary, adjust, correct, clean or replace.

NORMAL MAINTENANCE SCHEDULE (CONT.)

108,000 km (67,500 miles) or 54 months
❑ Rotate tires - including tire pressure and tread wear (Every 6,000 km (3,750 miles) or 6 months)

120,000 km (75,000 miles) or 60 months
❑ Inspect air conditioning compressor, air conditioner refrigerant and performance (if equipped) ❑ Inspect cooling system *1 ❑ Inspect 12V battery condition ❑ Inspect brake lines, hoses and connections ❑ Inspect brake fluid ❑ Inspect disc brakes and pads ❑ Inspect suspension ball joints & mounting blots ❑ Inspect steering gear rack, linkage and boots ❑ Inspect brake pedal ❑ Inspect drive shafts and boots ❑ Inspect reduction gear oil ❑ Rotate tires - including tire pressure and tread wear (Every 6,000 km (3,750 miles) or 6 months) ❑ Replace climate control air filter (if equipped)

❊ Inspect : Inspect and if necessary, adjust, correct, clean or replace.

NORMAL MAINTENANCE SCHEDULE (CONT.)

132,000 km (82,500 miles) or 66 months
❑ Rotate tires - including tire pressure and tread wear (Every 6,000 km (3,750 miles) or 6 months)

144,000 km (90,000 miles) or 72 months
❑ Inspect air conditioning compressor, air conditioner refrigerant and performance (if equipped) ❑ Inspect cooling system *1 ❑ Inspect 12V battery condition ❑ Inspect brake lines, hoses and connections ❑ Inspect brake fluid ❑ Inspect disc brakes and pads ❑ Inspect suspension ball joints & mounting blots ❑ Inspect steering gear rack, linkage and boots ❑ Inspect brake pedal ❑ Inspect drive shafts and boots ❑ Rotate tires - including tire pressure and tread wear (Every 6,000 km (3,750 miles) or 6 months) ❑ Replace climate control air filter (if equipped)

❊ Inspect : Inspect and if necessary, adjust, correct, clean or replace.

NORMAL MAINTENANCE SCHEDULE (CONT.)

156,000 km (97,500 miles) or 78 months
❑ Rotate tires - including tire pressure and tread wear (Every 6,000 km (3,750 miles) or 6 months)

168,000 km (105,000 miles) or 84 months
❑ Inspect air conditioning compressor, air conditioner refrigerant and performance (if equipped) ❑ Inspect cooling system *1 ❑ Inspect 12V battery condition ❑ Inspect brake lines, hoses and connections ❑ Inspect brake fluid ❑ Inspect disc brakes and pads ❑ Inspect suspension ball joints & mounting blots ❑ Inspect steering gear rack, linkage and boots ❑ Inspect brake pedal ❑ Inspect drive shafts and boots ❑ Rotate tires - including tire pressure and tread wear (Every 6,000 km (3,750 miles) or 6 months) ❑ Replace climate control air filter (if equipped)

❊ Inspect : Inspect and if necessary, adjust, correct, clean or replace.

NORMAL MAINTENANCE SCHEDULE (CONT.)

180,000 km (112,500 miles) or 90 months

- ❑ Rotate tires - including tire pressure and tread wear (Every 6,000 km (3,750 miles) or 6 months)
- ❑ Inspect reduction gear oil

❊ Inspect : Inspect and if necessary, adjust, correct, clean or replace.

192,000 km (120,000 miles) or 96 months

- ❑ Inspect air conditioning compressor, air conditioner refrigerant and performance (if equipped)
- ❑ Inspect cooling system *1
- ❑ Inspect 12V battery condition
- ❑ Inspect brake lines, hoses and connections
- ❑ Inspect brake fluid
- ❑ Inspect disc brakes and pads
- ❑ Inspect suspension ball joints & mounting blots
- ❑ Inspect steering gear rack, linkage and boots
- ❑ Inspect brake pedal
- ❑ Inspect drive shafts and boots
- ❑ Rotate tires - including tire pressure and tread wear (Every 6,000 km (3,750 miles) or 6 months)
- ❑ Replace climate control air filter (if equipped)
- ❑ Replace coolant (First at 192,000 km (120,000 miles) then after every 48,000km (30,000 miles))

❊ Inspect : Inspect and if necessary, adjust, correct, clean or replace.

MAINTENANCE UNDER SEVERE USAGE CONDITIONS

The following items must be serviced more frequently on cars mainly used under severe driving conditions. Refer to the chart below for the appropriate maintenance intervals.

R : Replace I : Inspect and if necessary, adjust, correct, clean or replace

Maintenance item	Maintenance operation	Maintenance intervals	Driving condition
Reduction gear oil	R	Every 120,000 km (75,000 miles)	C, D, E, G, H, I, K
Steering gear rack, linkage and boots	I	Inspect more frequently depending on the condition	C, D, E, F, G
Front suspension ball joints	I	Inspect more frequently depending on the condition	C, D, E, F, G
Disc brakes and pads	I	Inspect more frequently depending on the condition	C, D, E, G, H

Maintenance item	Maintenance operation	Maintenance intervals	Driving condition
Drive shaft and boots	I	Inspect more frequently depending on the condition	C, D, E, F, G, H, I, K
Climate control air filter (if equipped)	R	Replace more frequently depending on the condition	C, E, G

SEVERE DRIVING CONDITIONS

A : Repeatedly driving short distance of less than 8 km (5 miles) in normal temperature or less than 16 km (10 miles) in freezing temperature.

B : Extensive low speed driving for long distances.

C : Driving on rough, dusty, muddy, unpaved, graveled or salt-spread roads.

D : Driving in areas using salt or other corrosive materials or in very cold weather

E : Driving in sandy areas

F : Driving in heavy traffic area over 32 °C (90 °F)

G : Driving on uphill, downhill, or mountain roads.

H : Towing a trailer or using a camper on roof rack.

I : Driving for patrol car, taxi, commercial car or vehicle towing.

J : Driving in very cold weather.

K : Driving over 170 km/h (106 mile/h).

EXPLANATION OF SCHEDULED MAINTENANCE ITEMS

Cooling system

Check the cooling system components, such as the radiator, coolant reservoir, hoses and connections , coolant 3way valve, chiller for leakage and damage. Replace any damaged parts.

Coolant

The coolant should be changed at the intervals specified in the maintenance schedule.

Brake hoses and lines

Visually check for proper installation, chafing, cracks, deterioration and any leakage. Replace any deteriorated or damaged parts immediately.

Brake fluid

Check the brake fluid level in the brake fluid reservoir. The level should be between “MIN” and “MAX” marks on the side of the reservoir. Use only hydraulic brake fluid conforming to DOT 3 or DOT 4 specification.

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 you to refer to the Kia website.

(**http://www.kiatechinfo.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 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

Check the air conditioning lines and connections for leakage and damage.

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.

Checking the coolant level

⚠ WARNING

Removing radiator cap

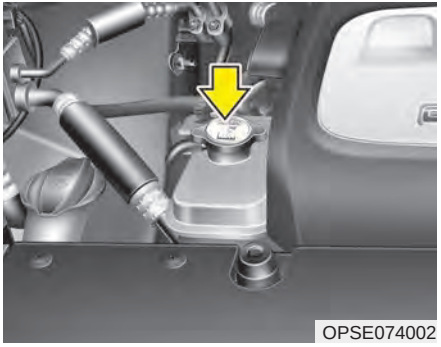
Never attempt to remove the radiator cap while the motor compartment is operating or hot. Doing so might lead to cooling system damage and could result in serious personal injury from escaping hot coolant or steam.

Turn the vehicle 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.

⚠ WARNING - Cooling fan

Use caution when working near the blade of the cooling fan. The electric motor (cooling fan) is controlled by coolant temperature, refrigerant pressure and vehicle speed. it may sometimes operate even when the vehicle is not running.


OPSE074002

Check the condition and connections of all cooling system hoses and heater hoses. Replace any swollen or deteriorated hoses.

The coolant level should be filled between F and L marks on the side of the coolant reservoir when the motor room is cool.

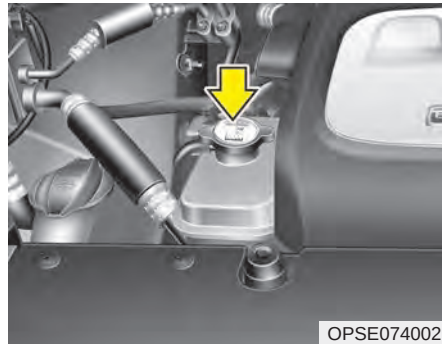
If the coolant level is low, add enough specified coolant to provide protection against freezing and corrosion. Bring the level to F, but do not overfill. If frequent additions are required, see an authorized Kia dealer for a cooling system inspection.

Recommended 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 mixture can result in serious malfunction or damage.
- 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.
- The cooling circuit of a vehicle equipped with a heat pump system may freeze in extremely low temperature when the concentration of the antifreezing liquid is below 45%.

For mixture percentage, refer to the following table.

Ambient Temperature	Mixture Percentage (volume)	
	Antifreeze	Water
-15°C (5°F)	35	65
-25°C (-13°F)	40	60
-35°C (-31°F)	50	50
-45°C (-49°F)	60	40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⚠ WARNING

Radiator cap

Do not remove the radiator cap when the motor compartment and radiator are hot. Scalding hot coolant and steam may blow out under pressure which may result in serious injury.

Changing the coolant

Have the coolant changed by an authorized Kia dealer according to the Maintenance Schedule at the beginning of this chapter.

Put a thick cloth around the radiator cap before refilling the coolant in order to prevent the coolant from overflowing into motor compartment.

BRAKE FLUID

Checking the brake fluid level

Check the fluid level in the reservoir periodically. The fluid level should be between MAX and MIN marks on the side of the reservoir.

Before removing the reservoir cap and adding brake fluid, clean the area around the reservoir cap thoroughly to prevent brake fluid contamination.

⚠ CAUTION - Proper fluid

Only use brake fluid in brake system. Small amounts of improper fluids can cause damage to the brake system.

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 brake system checked by an authorized Kia dealer.

Use only the specified brake fluid. (Refer to “Recommended lubricants and capacities” in chapter 8.)

Never mix different types of fluid.

In the event the brake system requires frequent additions of fluid, the vehicle should be inspected by an authorized Kia dealer.

When changing and adding brake fluid, handle it carefully. Do not let it come in contact with your eyes. If brake fluid should come in contact with your eyes, immediately flush them with a large quantity of fresh tap water. Have your eyes examined by a doctor as soon as possible.

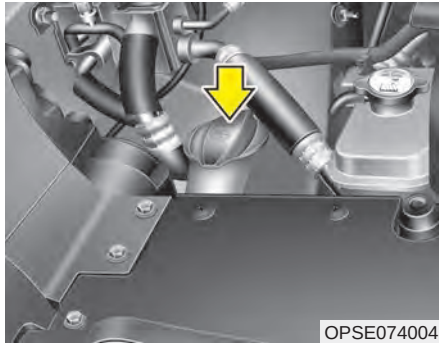
⚠ CAUTION - Brake fluid

Do not allow brake fluid to contact the vehicle's body paint, as paint damage will result.

Brake fluid, which has been exposed to open air for an extended time should never be used as its quality cannot be guaranteed. It should be disposed of properly.

WASHER FLUID

Checking the washer fluid level


OPSE074004

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.

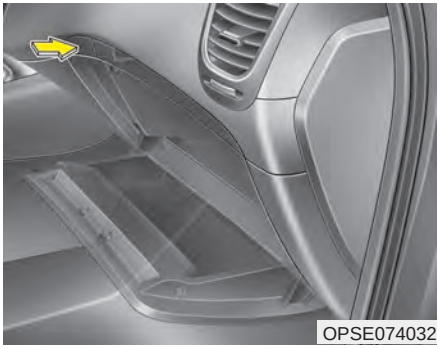
⚠ WARNING - Flammable Fluid

Do not allow the washer fluid to come in contact with open flames or sparks. The windshield washer fluid reservoir is flammable under certain circumstances. This can result in a fire.

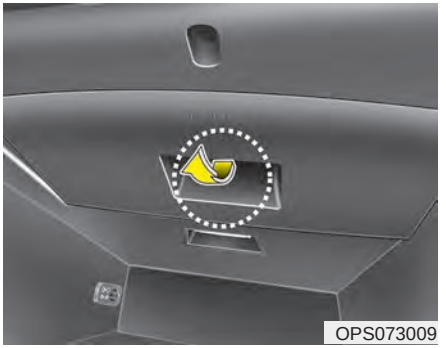
CLIMATE CONTROL AIR FILTER

Filter inspection & replacement

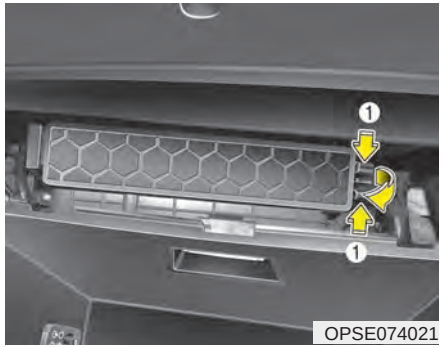
The climate control air filter should be replaced according to the maintenance schedule. If the vehicle is operated in severely air-polluted cities or on dusty rough roads for a long period, it should be inspected more frequently and replaced earlier. When you replace the climate control air filter, replace it performing the following procedure, and be careful to avoid damaging other components.



1. Open the glove box.



2. With the glove box open, remove the Air filter cover.



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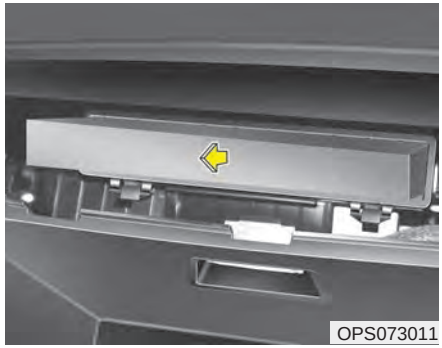
3. Remove the climate control air filter case by pulling out both sides of the cover (1).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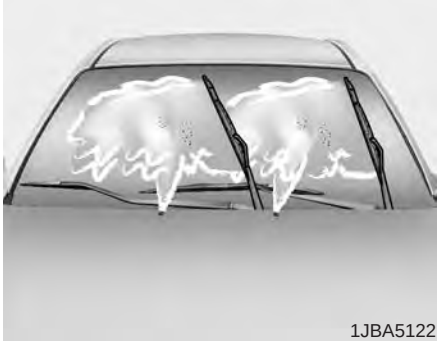
4. Replace the climate control air filter.
5. Reassemble in the reverse order of disassembly.

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



Commercial hot waxes applied by automatic vehicle 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 vehicle 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.

⚠ **CAUTION - Wiper blades**

To prevent damage to the wiper blades, do not use gasoline, kerosene, paint thinner, or other solvents on or near them.

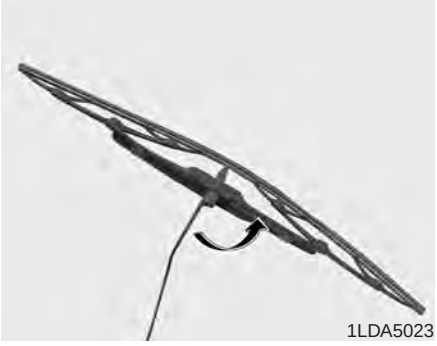
Blade replacement

When the wipers no longer clean adequately, the blades may be worn or cracked, and require replacement.

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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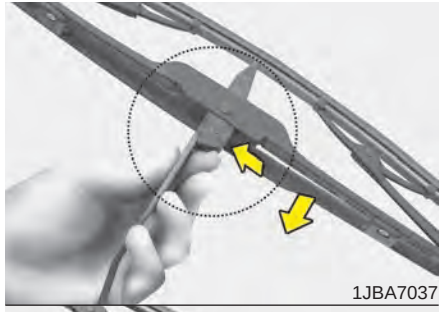
Type A

1. Raise the wiper arm and turn the wiper blade assembly to expose the plastic locking clip.

> ⚠ **CAUTION - Wiper arms**
>
> ***Do not allow the wiper arm to fall against the windshield, since it may chip or crack the windshield.***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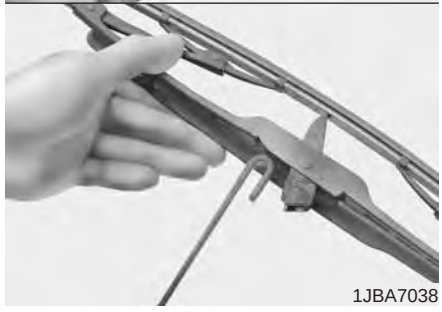
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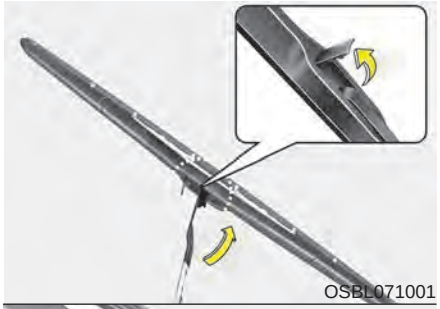
2. Compress the clip and slide the blade assembly downward.
3. Lift it off the arm.
4. Install the blade assembly in the reverse order of removal.

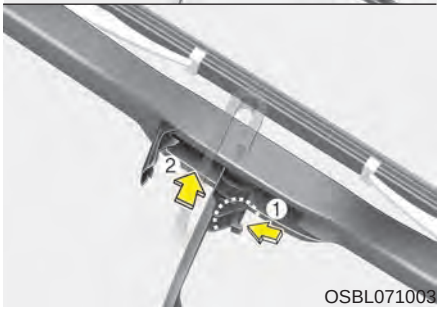
OHM078059

Type B

1. Raise the wiper arm.

> ⚠ **CAUTION - Wiper arms**
>
> ***Do not allow the wiper arm to fall against the windshield, since it may chip or crack the windshield.***



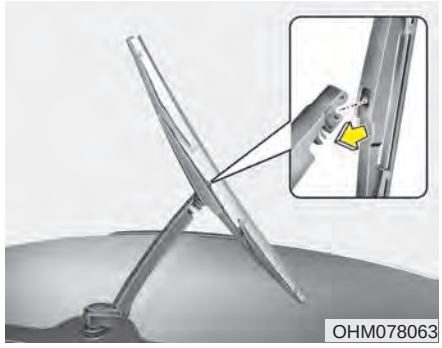


2. Turn the wiper blade clip. Then lift up the blade clip.
3. Push the clip (1) and push up the wiper arm (2).

4. Push down the wiper arm (3) and install the new blade assembly in the reverse order of removal.
5. Return the wiper arm on the windshield.

Rear window wiper blade

1. Raise the wiper arm and pull out the wiper blade assembly.

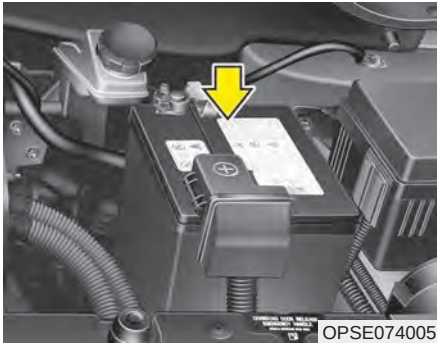


2. Install the new blade assembly by inserting the center part into the slot in the wiper arm until it clicks into place.
3. Make sure the blade assembly is installed firmly by trying to pull it slightly.

To prevent damage to the wiper arms or other components, have an authorized Kia dealer replace the wiper blade.

BATTERY

For best battery service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- 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.

WARNING - Risk of explosion

Keep lit cigarettes and all other flames or sparks away from the battery.

The battery contains hydrogen -- a highly combustible gas which will explode if it comes in contact with a flame or spark.

Keep batteries out of the reach of children because batteries contain highly corrosive SULFURIC ACID and electrolytes. Do not allow battery acid to contact your skin, eyes, clothing or paint finish.

Wear eye protection when charging or working near a battery. Always provide ventilation when working in an enclosed space.

Always read the following instructions carefully when handling a battery.

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.

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

Never attempt to recharge the battery when the battery cables are connected.

⚠ WARNING - Risk of electrocution

Never touch the electrical ignition system while the vehicle is running. This system works with high voltage which can "zap" you.

✻ NOTICE

If you connect unauthorized electronic devices to the battery, the battery may be discharged. Never use unauthorized devices.

Battery recharging

Your vehicle has a maintenance-free, calcium-based battery.

- If the battery becomes discharged in a short time (because, for example, the headlights or interior lights were left on while the vehicle was not in use), recharge it by slow charging (trickle) for 10 hours.
- If the battery gradually discharges because of high electric load while the vehicle is being used, recharge it at 20-30A for two hours.

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.
- Before performing maintenance or recharging the battery, turn off all accessories and stop the vehicle.
- The negative battery cable must be removed first and installed last when the battery is disconnected.

Reset items

Items should be reset after the battery has been discharged or the battery has been disconnected.

- Auto up/down window (See chapter 4)
- Trip computer (See chapter 4)
- Climate control system (See chapter 4)
- Audio (See chapter 4)

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 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, vehicle handling, and minimum tire wear.

For recommended inflation pressure, refer to “Tire and wheels” in chapter 8.

All specifications (sizes and pressures) can be found on a label attached to the driver’s side center pillar.

⚠ WARNING - Tire under inflation

Inflate your tire consistent with the instructions provided in this manual. Severe under inflation can lead to severe heat build-up, causing blowouts, tread separation and other tire failures that can result in the loss of vehicle control. This risk is much higher on hot days and when driving for long periods at high speeds.

- Underinflation also results in excessive wear, poor handling and reduced fuel economy. Wheel deformation also is possible. Keep your tire pressures at the proper levels. If a tire frequently needs refilling, have it checked by an authorized Kia dealer.
- Overinflation produces a harsh ride, excessive wear at the center of the tire tread, and a greater possibility of damage from road hazards.
- 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.

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.)
- Never overload your vehicle. Be careful not to overload a vehicle luggage rack if your vehicle is equipped with one.

Checking tire inflation pressure

Check your tires once a month or more.

How to check

Use a good quality gauge to check tire pressure. You cannot tell if your tires are properly inflated simply by looking at them. Radial tires may look properly inflated even when they'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.

- 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.

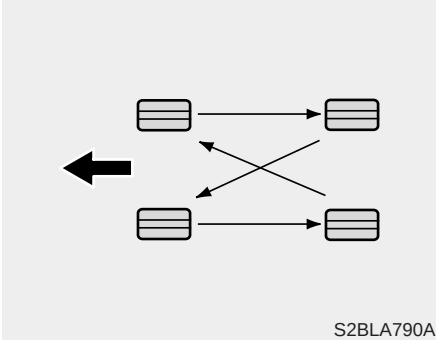
Tire rotation

To equalize tread wear, it is recommended that the tires be rotated every 12,000 km (7,500 miles) or sooner if irregular wear develops.

During rotation, check the tires for correct balance.

When rotating tires, check for uneven wear and damage. Abnormal wear is usually caused by incorrect tire pressure, improper wheel alignment, out-of-balance wheels, severe braking or severe cornering. Look for bumps or bulges in the tread or side of 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 “Tire and wheels” in chapter 8.



Disc brake pads should be inspected for wear whenever tires are rotated.

Rotate radial tires that have an asymmetric tread pattern only from front to rear and not from right to left.

⚠ WARNING - Mixing tires

Do not mix bias ply and radial ply tires under any circumstances. This may cause unusual handling characteristics.

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.

⚠ **CAUTION - Wheel weight**

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 inch) 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.

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 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.

✻ NOTICE

We recommend that when replacing tires, use the same originally supplied with the vehicles. If not, that affects driving performance.

Wheel replacement

When replacing the metal wheels for any reason, make sure the new wheels are equivalent to the original factory units in diameter, rim width and offset.

A wheel 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.

⚠ CAUTION - Wheels

Wheels that do not meet Kia specifications may fit poorly and result in damage to the vehicle or unusual handling and poor vehicle control.

Tire traction

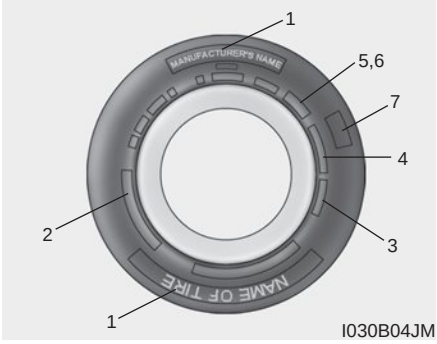
Tire traction can be reduced if you drive on worn tires, tires that are improperly inflated or on slippery road surfaces. Tires should be replaced when tread wear indicators appear. Slow down whenever there is rain, snow or ice on the road to reduce the possibility of losing control of the vehicle.

Tire maintenance

In addition to proper inflation, correct wheel alignment helps to decrease tire wear. If you find a tire is worn unevenly, have your dealer check the wheel alignment.

When you have new tires installed, make sure they are balanced. This will increase vehicle ride comfort and tire life. Additionally, a tire should always be rebalanced if it is removed from the wheel.

Tire sidewall labeling



This information identifies and describes the fundamental characteristics of the tire and also provides the tire identification number (TIN) for safety standard certification. The TIN can be used to identify the tire in case of a recall.

1. Manufacturer or brand name

Manufacturer or Brand name is shown.

2. Tire size designation

A tire's sidewall is marked with a tire size designation. You will need this information when selecting replacement tires for your 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.)

P235/65R17 108T

P - Applicable vehicle type (tires marked with the prefix "P" are intended for use on passenger vehicles or light trucks; however, not all tires have this marking).

235 - Tire width in millimeters.

65 - Aspect ratio. The tire's section height as a percentage of its width.

R - Tire construction code (Radial).

17 - 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:

7.0JX17

7.0 - Rim width in inches.

J - Rim contour designation.

17 - Rim diameter in inches.

Tire speed ratings

The chart below lists many of the different speed ratings currently being used for passenger vehicle tires. The speed rating is part of the tire size designation on the sidewall of the tire. This symbol corresponds to that tire's designed maximum safe operating speed.

Speed Rating Symbol	Maximum Speed
S	180 km/h (112 mph)
T	190 km/h (118 mph)
H	210 km/h (130 mph)
V	240 km/h (149 mph)
Z	Above 240 km/h (149 mph)

3. Checking tire life (TIN : Tire Identification Number)

Any tires that are over 6 years old, based on the manufacturing date, should be replaced by new ones. You can find the manufacturing date on the tire sidewall (possibly on the inside of the wheel), displaying the DOT Code. The DOT Code is a series of numbers on a tire consisting of numbers and English letters. The manufacturing date is designated by the last four digits (characters) of the DOT code.

DOT : XXXX XXXX OOOO

The front part of the DOT 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 1614 represents that the tire was produced in the 16th week of 2014.

⚠ WARNING - Tire age

Replace tires within the recommended time frame. Failure to replace tires as recommended can result in sudden tire failure, which could lead to a loss of control and an accident.

4. Tire ply composition and material

The number of layers or plies of rubber-coated fabric in the tire. Tire manufacturers also must indicate the materials in the tire, which include steel, nylon, polyester, and others. The letter "R" means radial ply construction; the letter "D" means diagonal or bias ply construction; and the letter "B" means belted-bias ply construction.

5. Maximum permissible inflation pressure

This number is the greatest amount of air pressure that should be put in the tire. Do not exceed the maximum permissible inflation pressure. Refer to the Tire and Loading Information label for recommended inflation pressure.

6. Maximum load rating

This number indicates the maximum load in kilograms and pounds that can be carried by the tire. When replacing the tires on the vehicle, always use a tire that has the same load rating as the factory installed tire.

7. Uniform tire quality grading

Quality grades can be found where applicable on the tire sidewall between tread shoulder and maximum section width.

For example:

TREADWEAR 200

TRACTION AA

TEMPERATURE A

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.

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.

The traction grade assigned to this tire is based on straight-ahead braking traction tests, and does not include acceleration, cornering, hydroplaning, or peak traction characteristics.

Temperature -A, B & C

The temperature grades are A (the highest), B and C representing the tire's resistance to the generation of heat and its ability to dissipate heat when tested under controlled conditions on a specified indoor laboratory test wheel.

Sustained high temperature can cause the material of the tire to degenerate and reduce tire life, and excessive temperature can lead to sudden tire failure. Grades B and A represent higher levels of performance on the laboratory test wheel than the minimum required by law.

Tire terminology and definitions

Air Pressure: The amount of air inside the tire pressing outward on the tire. Air pressure is expressed in pounds per square inch (psi) or kilopascal (kPa).

Accessory Weight: This means the combined weight of optional accessories. Some examples of optional accessories are, automatic transaxle, power seats, and air conditioning.

Aspect Ratio: The relationship of a tire's height to its width.

Belt: A rubber coated layer of cords that is located between the plies and the tread. Cords may be made from steel or other reinforcing materials.

Bead: The tire bead contains steel wires wrapped by steel cords that hold the tire onto the rim.

Bias Ply Tire: A pneumatic tire in which the plies are laid at alternate angles less than 90 degrees to the centerline of the tread.

Cold Tire Pressure: The amount of air pressure in a tire, measured in pounds per square inch (psi) or kilopascals (kPa) before a tire has built up heat from driving.

Curb Weight: This means the weight of a motor vehicle with standard and optional equipment including the maximum capacity of fuel, oil and coolant, but without passengers and cargo.

DOT Markings: The DOT code includes the Tire Identification Number (TIN), an alphanumeric designator which can also identify the tire manufacturer, production plant, brand and date of production.

GVWR: Gross Vehicle Weight Rating

GAWR FRT: Gross Axle Weight Rating for the Front Axle.

GAWR RR: Gross Axle Weight Rating for the Rear axle.

Intended Outboard Sidewall: The side of an asymmetrical tire, that must always face outward when mounted on a vehicle.

Kilopascal (kPa): The metric unit for air pressure.

Load Index: An assigned number ranging from 1 to 279 that corresponds to the load carrying capacity of a tire.

Maximum Inflation Pressure: The maximum air pressure to which a cold tire may be inflated. The maximum air pressure is molded onto the sidewall.

Maximum Load Rating: The load rating for a tire at the maximum permissible inflation pressure for that tire.

Maximum Loaded Vehicle Weight: The sum of curb weight; accessory weight; vehicle capacity weight; and production options weight.

Normal Occupant Weight: The number of occupants a vehicle is designed to seat multiplied by 68 kg (150 pounds).

Occupant Distribution: Designated seating positions.

Outward Facing Sidewall: The side of a asymmetrical tire that has a particular side that faces outward when mounted on a vehicle. The outward facing sidewall bears white lettering or bears manufacturer, brand, and/or model name molding that is higher or deeper than the same moldings on the inner facing sidewall.

Passenger (P-Metric) Tire: A tire used on passenger cars and some light duty trucks and multipurpose vehicles.

Recommended Inflation Pressure: Vehicle manufacturer's recommended tire inflation pressure and shown on the tire placard.

Radial Ply Tire: A pneumatic tire in which the ply cords that extend to the beads are laid at 90 degrees to the centerline of the tread.

Rim: A metal support for a tire and upon which the tire beads are seated.

Sidewall: The portion of a tire between the tread and the bead.

Speed Rating: An alphanumeric code assigned to a tire indicating the maximum speed at which a tire can operate.

Traction: The friction between the tire and the road surface. The amount of grip provided.

Tread: The portion of a tire that comes into contact with the road.

Treadwear Indicators: Narrow bands, sometimes called "wear bars," that show across the tread of a tire when only 2/32 inch of tread remains.

UTQGS: Uniform Tire Quality Grading Standards, a tire information system that provides consumers with ratings for a tire's traction, temperature and treadwear. Ratings are determined by tire manufacturers using government testing procedures. The ratings are molded into the sidewall of the tire.

Vehicle Capacity Weight: The number of designated seating positions multiplied by 68 kg (150 lbs.) plus the rated cargo and luggage load.

Vehicle Maximum Load on the Tire: Load on an individual tire due to curb and accessory weight plus maximum occupant and cargo weight.

Vehicle Normal Load on the Tire: Load on an individual tire that is determined by distributing to each axle its share of the curb weight, accessory weight, and normal occupant weight and driving by 2.

Vehicle Placard: A label permanently attached to a vehicle showing the original equipment tire size and recommended inflation pressure.

All season tires

Kia specifies all season tires on some models to provide good performance for use all year round, including snowy and icy road conditions. All season tires are identified by ALL SEASON and/or M+S (Mud and Snow) on the tire sidewall. Snow tires have better snow traction than all season tires and may be more appropriate in some areas.

Summer tires

Kia specifies summer tires on some models to provide superior performance on dry roads. Summer tire performance is substantially reduced in snow and ice. Summer tires do not have the tire traction rating M+S (Mud and Snow) on the tire side wall. if you plan to operate your vehicle in snowy or icy conditions, Kia recommends the use of snow tires or all season tires on all four wheels.

Snow tires

If you equip your vehicle with snow tires, they should be the same size and have the same load capacity as the original tires. Snow tires should be installed on all four wheels; otherwise, poor handling may result.

Snow tires should carry 28 kPa (4 psi) more air pressure than the pressure recommended for the standard tires on the tire label on the driver's side of the center pillar, or up to the maximum pressure shown on the tire sidewall, whichever is less.

Do not drive faster than 120 km/h (75 mph) when your vehicle is equipped with snow tires.

Radial-ply tires

Radial-ply tires provide improved tread life, road hazard resistance and smoother high speed ride. The radial-ply tires used on this vehicle are of belted construction, and are selected to complement the ride and handling characteristics of your vehicle. Radial-ply tires have the same load carrying capacity, as bias-ply or bias belted tires of the same size, and use the same recommended inflation pressure. Mixing of radial-ply tires with bias-ply or bias belted tires is not recommended. Any combinations of radial-ply and bias-ply or bias belted tires when used on the same vehicle will seriously deteriorate vehicle handling. The best rule to follow is: Identical radial-ply tires should always be used as a set of four.

Longer wearing tires can be more susceptible to irregular tread wear. It is very important to follow the tire rotation interval shown in this section to achieve the tread life potential of these tires. Cuts and punctures in radial-ply tires are repairable only in the tread area, because of sidewall flexing. Consult your tire dealer for radial-ply tire repairs.

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.

⚠ **CAUTION**

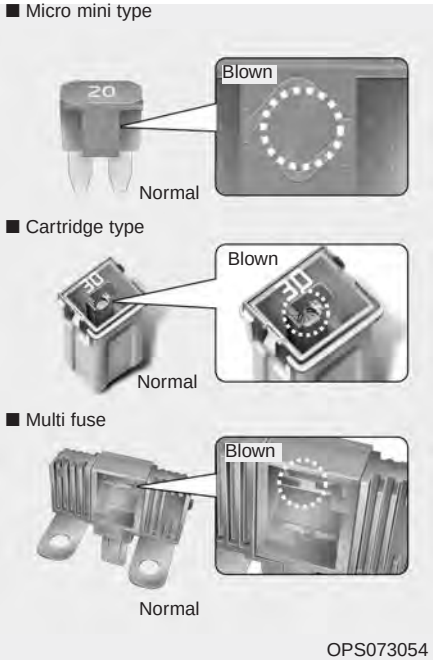
Because the sidewall of the low aspect ratio tire is shorter than the normal, the wheel and tire of the low aspect ratio tire is easier to be damaged. So, follow the instructions below.

- ***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, we recommend that you inspect the tire condition or contact an authorized Kia dealer.***
- ***To prevent damage to the tire, inspect the tire condition and pressure every 3,000 km (1,900 miles).***

⚠ **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



A vehicle's electrical system is protected from electrical overload damage by fuses.

This vehicle has 3 (or 4) fuse panels, one located in the driver's side panel bolster, the other in the motor 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.

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 an authorized Kia dealer.

Three kinds of fuses are used: micro mini type for lower amperage rating, cartridge type, and multi fuse for higher amperage ratings.

⚠ 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.**
- **Replace the fuse with the ignition "OFF", switch off of all electrical devices and then separation (-) terminal from the battery in a safe place.**

⚠ 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.

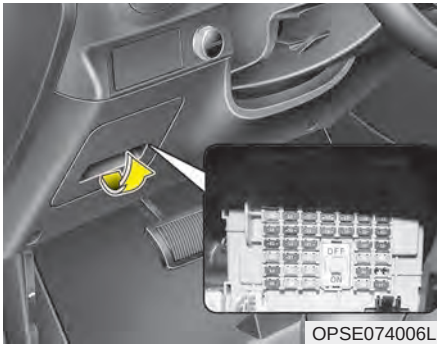
✻ NOTICE

The actual fuse/relay panel label may differ from equipped items.

⚠ WARNING - Fuse fire

- **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, we recommend that you consult with an authorized Kia dealer.**

Inner panel fuse replacement



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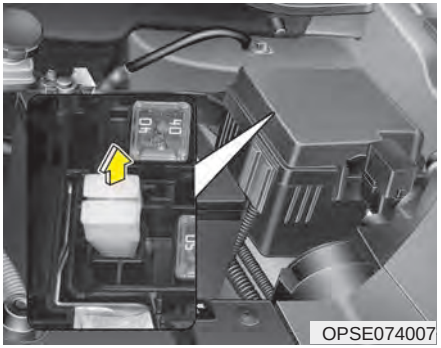
1. Turn the ignition switch and all other switches off.
2. Open the fuse panel cover.


OPSE074007

3. Pull the suspected fuse straight out. Use the fuse puller provided on the motor compartment fuse panel cover.
4. Check the removed fuse; replace it if it is blown.

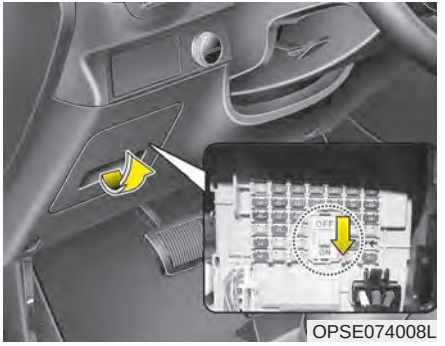
   Spare fuses are provided in the motor compartment fuse panel.
5. Push in a new fuse of the same rating, and make sure it fits tightly in the clips.

If it fits loosely, consult an authorized Kia dealer.

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 power outlet fuse.

If the headlights or other electrical components do not work and the fuses are OK, check the fuse panel in the motor compartment. If a fuse is blown, it must be replaced.

Fuse switch


OPSE074008L

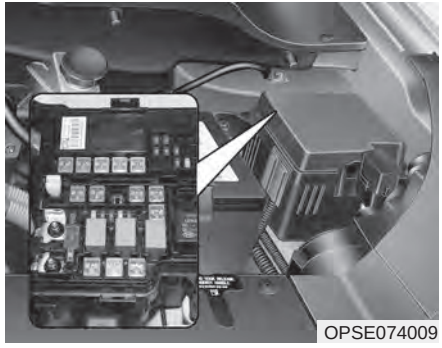
Always, put the fuse switch at the ON position.

If you move the switch to the OFF position, some items such as audio and digital clock must be reset and transmitter (or smart key) may not work properly.

✻ NOTICE

If you need to park your vehicle for prolonged periods more than 1 month, move the transportation fuse switch to the OFF position to prevent the battery being discharged.

Motor compartment fuse replacement

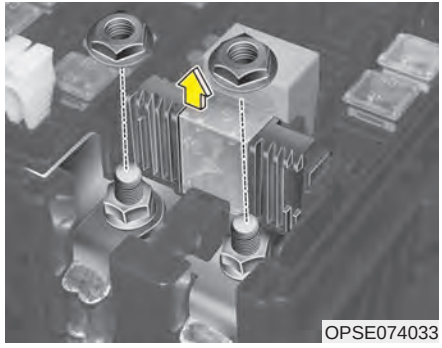

OPSE074009

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.
3. Check the removed fuse; replace it if it is blown. To remove or insert the fuse, use the fuse puller in the motor 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 an authorized Kia dealer.

⚠ CAUTION - Fuse panel covers

After checking the fuse panel in the motor compartment, securely install the fuse panel cover with using cover locking sound. If not, electrical failures may occur from water contact.

Multi fuse


OPSE074033

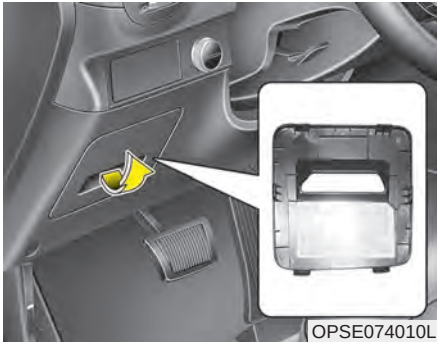
If the multi fuse is blown, it must be removed as follows:

1. Turn off the vehicle.
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.

✻ NOTICE

If the multi fuse is blown, consult an authorized Kia dealer.

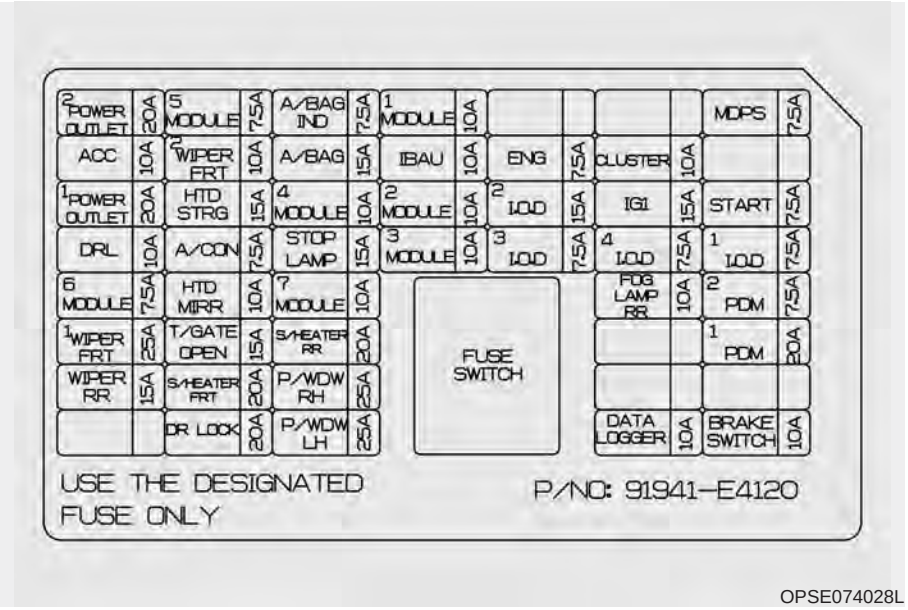
Fuse/relay panel description


OPSE074010L

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.



OPSE074028L

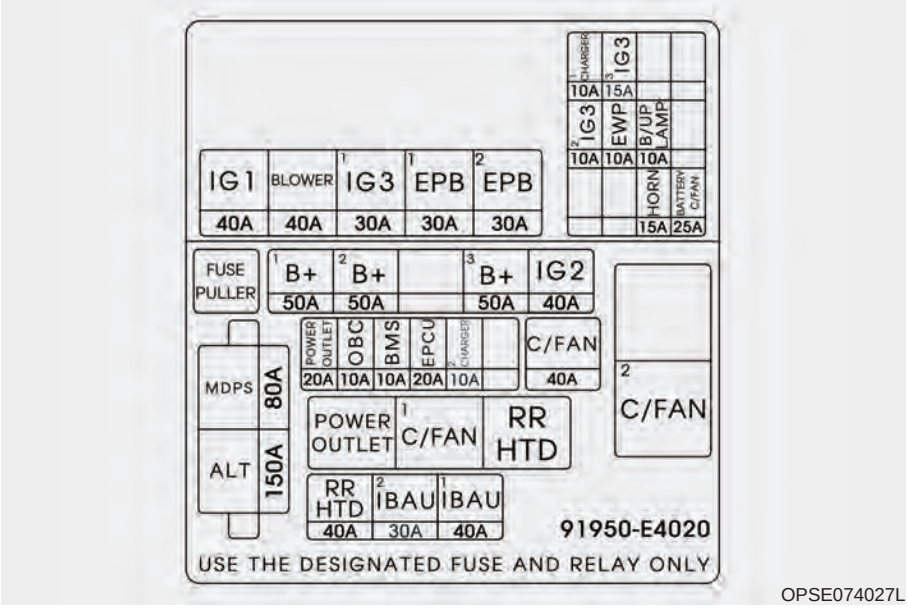
Instrument panel (Driver's side fuse panel)

Fuse Name	Fuse rating	Circuit Protected
POWER OUTLET 2	20A	Front Power Outlet
ACC	10A	BCM, Mood Lamp Module, A/V & Navigation Head Unit, Smart Key Control Module, Power Outside Mirror Switch, E/R Junction Block (Power Outlet Relay)
POWER OUTLET 1	20A	Rear Power Outlet
DRL	10A	BCM
MODULE 6	7.5A	Front Seat Warmer Module, Driver Air Ventilation Seat Control Module
WIPER FRT 1	25A	E/R Junction Block (Front Wiper Low Relay)
WIPER RR	15A	Rear Wiper Motor, Multifunction Switch
MODULE 5	7.5A	BCM, Smart Key Control Module
WIPER FRT 2	10A	BCM, Multifunction Switch, PCB Block (Front Wiper High Relay)
HTD STRG	15A	Clock Spring (Steering Wheel Heated)
A/CON	7.5A	A/C Control Module, Heater Assembly (Cluster Ionizer)
HTD MIRR	10A	A/C Control Module, Driver/Passenger Power Outside Mirror, Rear Defogger
TAIL GATE OPEN	15A	Tail Gate Open Relay
S/HEATER FRT	25A	Front Seat Warmer Module, Driver Air Ventilation Seat Control Module
DR LOCK	20A	Door Lock Relay, Door Unlock Relay, Two Turn Unlock Relay
A/BAG IND	7.5A	Instrument Cluster
AIR BAG	15A	SRS Control Module
MODULE 4	10A	Electro Chromic Mirror, Front Seat Warmer Module, Driver Air Ventilation Seat Control Module
STOP LAMP	15A	Stop Signal Electronic Module
MODULE 7	10A	Sport Mode Switch, ICM Relay Box
P/WINDOW RH	25A	Power Window RH Relay
P/WINDOW LH	25A	Power Window LH Relay, Driver Safety Power Window Module

Fuse Name	Fuse rating	Circuit Protected
MODULE 1	10A	BCM
IBAU	10A	Integrated Brake Actuation Unit
MODULE 2	10A	Tire Pressure Monitoring Module, Crash Pad Switch, Center Fascia Switch, Electronic Parking Brake Module, Stop Lamp Switch, Rear Parking Assist Sensor RH/LH (IN/OUT), Front Parking Assit Sensor LH/RH (OUT/IN)
MODULE 3	10A	ATM Lever Indicator, Multipurpose Check Connector, PCB Block (IG3 #4 Relay)
PDM 3	7.5A	Smart Key Control Module
IOD 2	15A	A/V & Navigation Head Unit
IOD 3	7.5A	ICM Relay Box (Outside Mirror Folding Relay, Outside Mirror Unfolding Relay)
CLUSTER	10A	Instrument Cluster
IG1	15A	EPCU
IOD 4	7.5A	Instrument Cluster, Tire Pressure Monitoring Module, Data Link Connector, Multipurpose Check Connector, A/C Control Module, BCM
MDPS	7.5A	MDPS Unit
START	7.5A	Transaxle Range Switch
IOD 1	7.5A	Overhead Console Lamp, Vanity Lamp LH/RH, Room Lamp, Glove Box Lamp, Luggage Lamp
PDM 2	7.5A	Smart Key Control Module
PDM 1	20A	Smart Key Control Module
BRAKE SWITCH	10A	Smart Key Control Module, Stop Lamp Switch

Motor compartment fuse panel

OPSE074012



OPSE074027L

Fuse Name	Fuse rating	Circuit Protected
MDPS	80A	MDPS Unit
ALT	150A	Alternator
B+1	50A	Smart Junction Block (Fuse - (S/HEATER FRT, TAIL GATE OPEN, DR LOCK, P/WINDOW LH, P/WINDOW RH, MODULE 7))
B+2	50A	Smart Junction Block (Fuse - (STOP LAMP) Arisu-LT2)
B+3	50A	Smart Junction Block (Fuse - (PDM 1, PDM 2, BRAKE SWITCH, Leak Current Autocut Device) IPS1, Arisu-LT1)
IG2	40A	PCB Block (Button Start (IG2) Relay)
POWER OUTLET	20A	Power Outlet Relay
OBC	10A	OBC Unit, Rear Heated Relay
BMS	10A	BMS Control Module
EPCU	20A	EPCU
CHARGER 2	10A	Normal Charge Port Lmap
C/FAN	40A	COOLING FAN 1 Relay, COOLING FAN 2 Relay
RR HTD	40A	Rear Heated Relay
IBAU 2	30A	Integrated Brake Actuation Unit
IBAU 1	40A	Integrated Brake Actuation Unit

Fuse Name	Fuse rating	Circuit Protected
IG1	40A	Button Start (ACC) Relay, Button Start (IG1) Relay
BLOWER	40A	Blower Relay
IG3 1	30A	IG3 #1/#2/#3/#4/#5 Relay
EPB 1	30A	Electronic Parking Brake Module
EPB 2	30A	Electronic Parking Brake Module
IG3 2	10A	Blower Relay, A/C Control Module, A/C Compressor, E/R Junction Block (Cooling Fan 1/2 Relay), Heater Assembly (PTC Heater)
CHARGER 1	10A	OBC Unit, BMS Control Module
EWP	10A	Electronic Water Pump
IG3 3	15A	EPCU, Transaxle Range Switch, A/V & Navigation Head Unit, Instrument Cluster
HORN	15A	Horn Relay
B/UP LAMP	10A	Transaxle Range Switch, EPCU
BATTERY C/FAN	25A	Battery C/FAN Relay

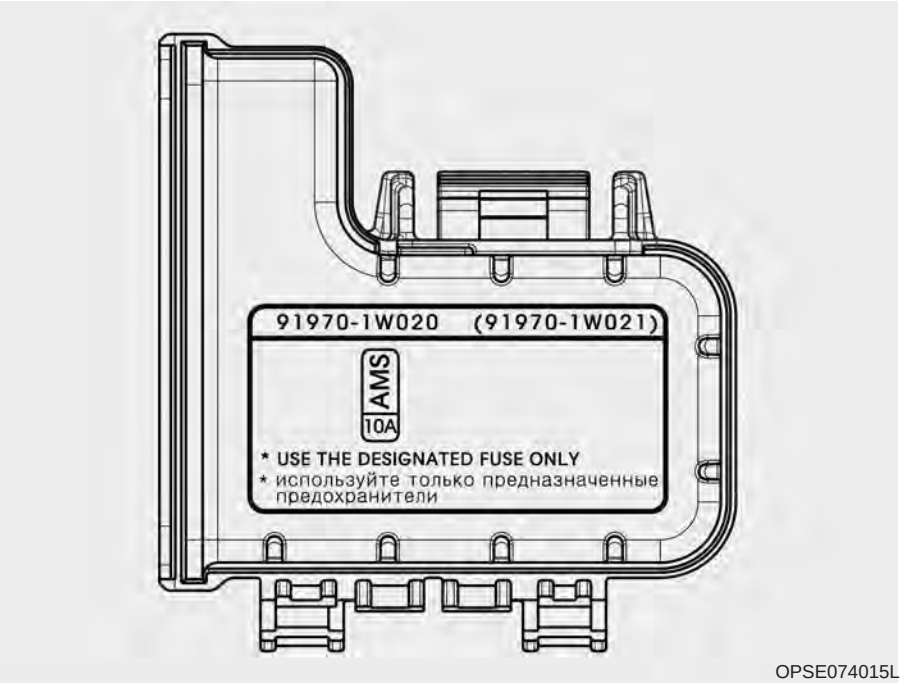
No.	Relay Name	Type
E41	Power Outlet Relay	PLUG MICRO
E42	C/FAN 1 Relay	PLUG MICRO
E43	RR HTD Relay	PLUG MICRO
E44	C/FAN 2 Relay	PLUG MINI

Motor compartment fuse panel (Battery terminal cover)

OPSE074014

✻ NOTICE

The actual fuse/relay panel label may differ from equipped items.



OPSE074015L

LIGHT BULBS

⚠ WARNING - 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.

⚠ CAUTION - Light replacement

Be sure to replace the burned-out bulb with one of the same wattage rating. Otherwise, it may cause damage to the fuse or electric wiring system.

- If you don't have necessary tools, the correct bulbs and the expertise, consult an authorized Kia dealer. 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).

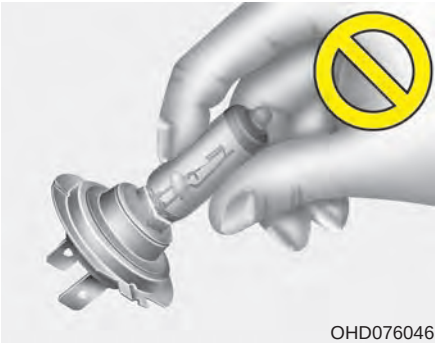
  Removing/installing the headlight assembly can result in damage to the vehicle.
- Do not install additional bulb or LED. If you install that, the lamp may not be operated properly and fuse box or electric wiring system may have problem.

Front light replacement

OPS073020

(1) Headlight (High)
(2) Headlight (Low)
(3) Front position light/ Daytime running light (if equipped)
(4) Front turn signal
(5) Front side marker light
(6) Front fog light (if equipped)

If the headlight aiming adjustment is necessary after the headlight assembly is reinstalled, consult an authorized Kia dealer.

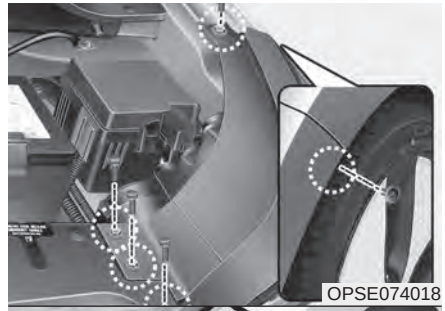


⚠ WARNING - Halogen bulbs

Handle halogen bulbs with care.

- **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.

1. Turn off the vehicle and open the hood.
2. Disconnect the power connector from the back of the headlight assembly.

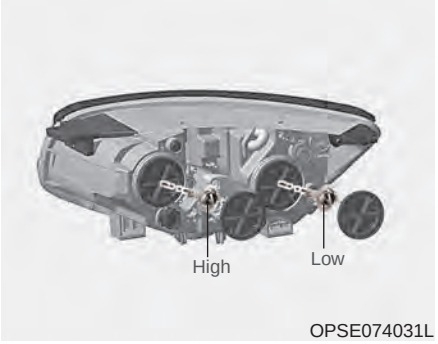


3. Disconnect the negative battery cable.
4. Loosen the retaining bolts.
5. Pull out the end of the front bumper.

If you can reach the bulb without removing the headlight assembly, you do not need to do step 4,5 and 6.

6. Remove the headlight assembly from the body of the vehicle.

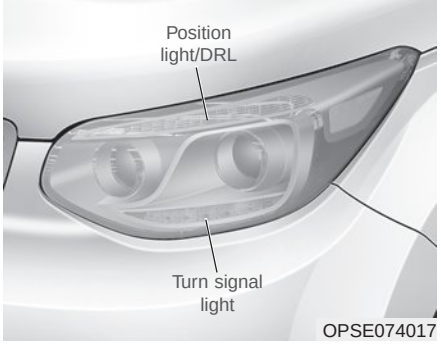
Headlight bulb (High, Low)



Follow the steps 1 to 6 from the previous page.

7. Remove the headlight bulb cover by turning it counterclockwise.
8. Disconnect the headlight bulb socket-connector.
9. Unsnap the headlight bulb retaining wire by depressing the end and pushing it upward.
10. Remove the bulb from the headlight assembly.
11. Install a new headlight bulb and snap the headlight bulb retaining wire into position by aligning the wire with the groove on the bulb.
12. Connect the headlight bulb socket connector.
13. Install the headlight bulb cover by turning it clockwise.
14. Connect the power connector to the back of the headlight assembly.
15. Reinstall the headlight assembly to the body of the vehicle.

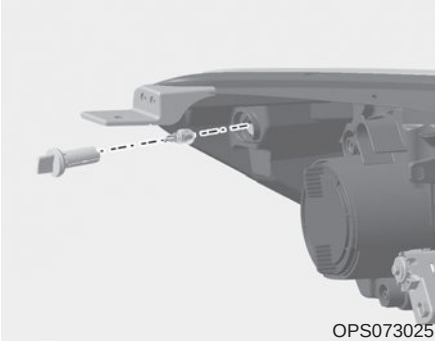
Front turn signal / position light / DRL



LED type

If the light bulb is not operating, have the vehicle checked by an authorized Kia dealer.

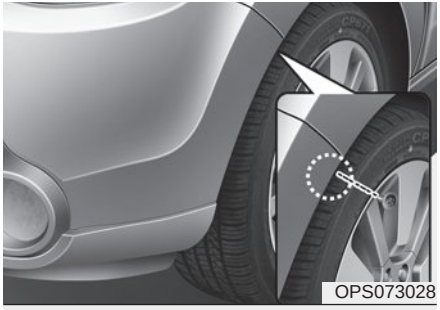
Front side marker

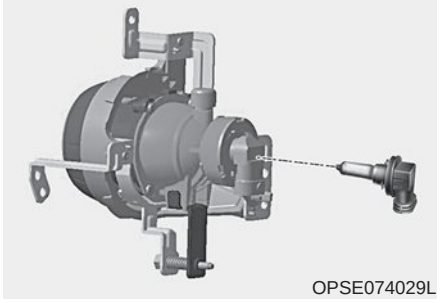

OPS073025

Follow the steps 1 to 6 from the previous page.

7. Remove the socket from the assembly by turning the socket counterclockwise until the tabs on the socket align with the slots on the assembly.
8. Pull the bulb out of the socket.
9. Insert a new bulb into the socket.
10. Install the socket into the assembly by aligning the tabs on the socket with the slots on the assembly and turning the socket clockwise.

Front fog lamp bulbs (if equipped)


OPS073028

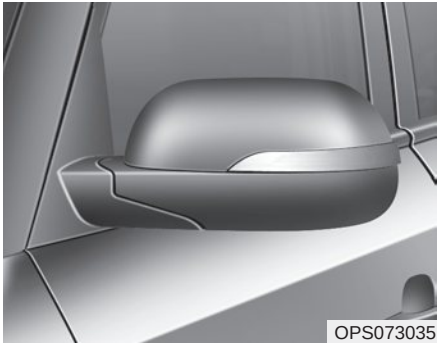

OPSE074029L

1. Remove the front bumper under cover.
2. Reach your hand into the back of the front bumper.
3. Disconnect the power connector from the socket.
4. Remove the bulb-socket from the housing by turning the socket counter clockwise until the tabs on the socket align with the slots on the housing.
5. Install the new bulb-socket into the housing by aligning the tabs on the socket with the slots in the housing. Push the socket into the housing and turn the socket clockwise.
6. Connect the power connector to the socket.
7. Reinstall the front bumper under cover.

✻ NOTICE

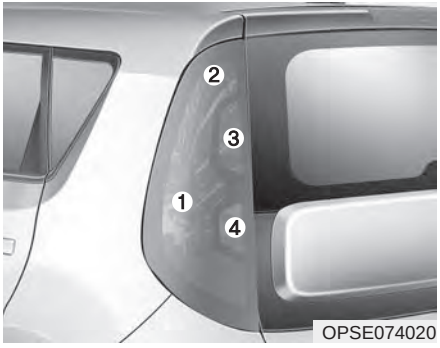
If the headlight aiming adjustment is necessary after the headlight assembly is reinstalled, consult an authorized Kia dealer.

Side repeater light bulb replacement



If the light bulb is not operating, have the vehicle checked by an authorized Kia dealer.

Rear combination light bulb replacement

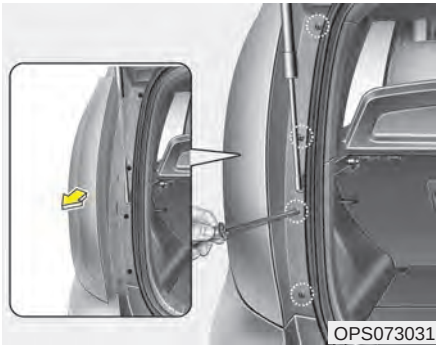


(1) Tail and stop light/
Side marker light (LED)

(2) Tail and side marker light(LED)

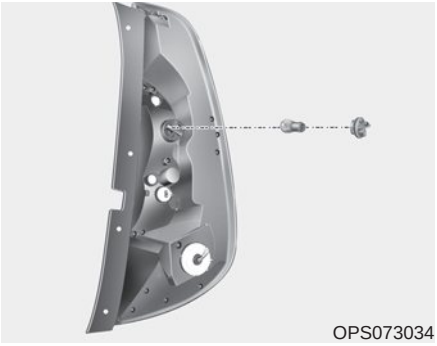
(3) Rear turn signal light

(4) Back-up light



1. Open the tailgate.
2. Loosen the light assembly retaining screws with a philips head screwdriver.
3. Remove the rear combination light assembly from the body of the vehicle.

Turn signal light


OPS073034

4. Remove the socket from the assembly by turning the socket counterclockwise until the tabs on the socket align with the slots on the assembly.
5. Remove the bulb from the socket by pressing it in and rotating it counterclockwise until the tabs on the bulb align with the slots in the socket.
6. Insert a new bulb by inserting it into the socket and rotating it until it locks into place.
7. Install the socket in the assembly by aligning the tabs on the socket with the slots in the assembly and turning the socket clockwise.
8. Reinstall the light assembly to the body of the vehicle.

Back-up light

OPS073045

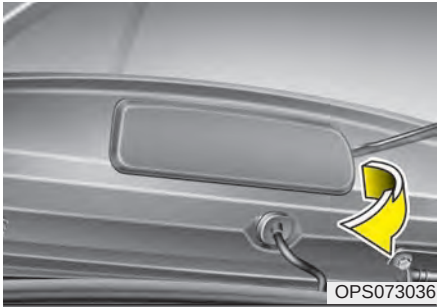
Follow the steps 1 to 3 from the previous page.

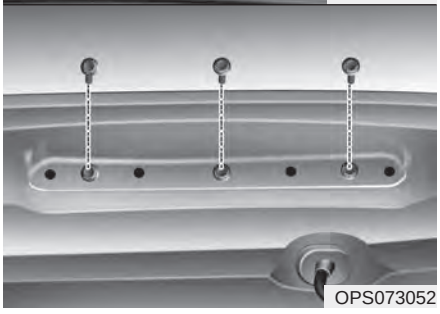
4. Remove the socket from the assembly by turning the socket counterclockwise until the tabs on the socket align with the slots on the assembly.
5. Pull the bulb out of the socket.
6. Insert a new bulb into the socket.
7. Install the socket into the assembly by aligning the tabs on the socket with the slots on the assembly and turning the socket clockwise.
8. Reinstall the light assembly to the body of the vehicle.

Tail,stop light and side marker light (LED type)

If the light does not operate, have the system be checked by an authorized Kia dealer.

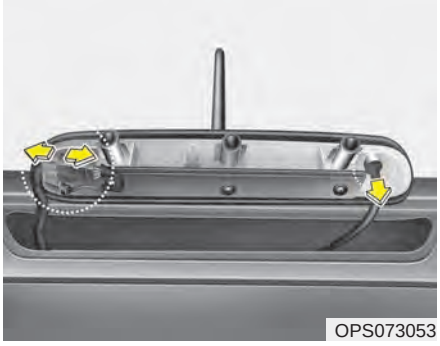
High mounted stop light replacement





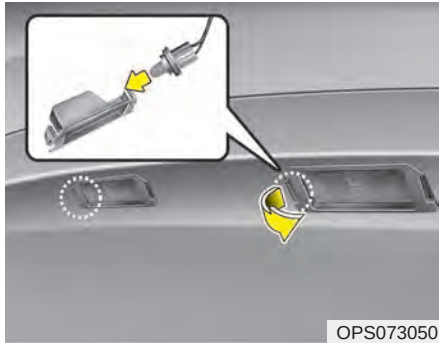
1. Open the tailgate.
2. Remove the cover.
3. Loosen the retaining bolts.

LED type



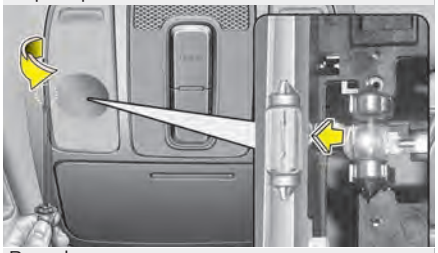
4. Pull out the module from the high mounted stop light assembly by pulling both clips.
5. Replace the LED with new one.
6. Reinstall in the reverse order.

License plate light bulb replacement

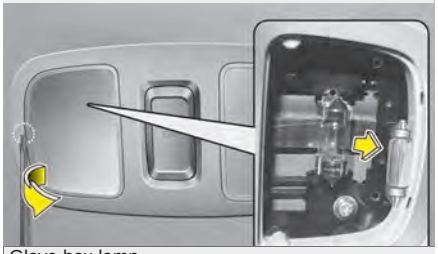

OPS073050

1. Remove the lens by pressing the tabs.
2. Remove the socket from the lens.
3. Remove the bulb by turning it counter clockwise.
4. Install a new bulb in the socket and install the socket to the lens.
5. Reinstall the lens securely.

Map lamp



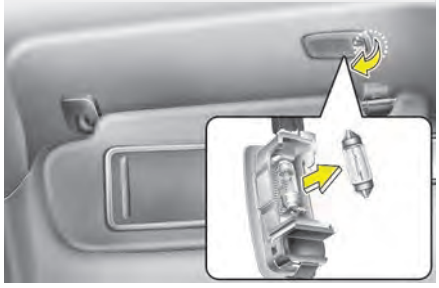
Room lamp



Glove box lamp

Luggage lamp

Vanity mirror lamp



OPS073041/OPS073042/OPS073043/
OPS073044/OXM079041

Interior light bulb replacement

1. Using a flat-blade screwdriver, gently pry the lens from the interior light housing.
2. Remove the bulb by pulling it straight out.

⚠ WARNING - Interior lights

Prior to working on the Interior Lights, ensure that the "OFF" button is depressed to avoid burning your fingers or receiving an electric shock.

3. Install a new bulb in the socket.
4. Align the lens tabs with the interior light housing notches and snap the lens into place.

⚠ CAUTION

Be careful not to dirty or damage the lens, lens tab, and plastic housings.

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.

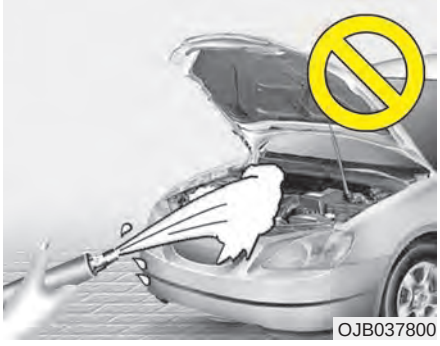
If you use your vehicle for off-road driving, you should wash it after each off-road trip. Pay special attention to the removal of any accumulation of salt, dirt, mud, and other foreign materials. Make sure the drain holes in the lower edges of the doors and rocker panels are kept clear and clean.

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.

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.


OJB037800

⚠ **CAUTION - Wetting motor compartment**

- ***Water washing in the motor-compartment including high pressure water washing may cause the failure of electrical circuits located in the motor 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.

⚠ **CAUTION - Drying vehicle**

- ***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.

If your vehicle is damaged and requires any metal repair or replacement, be sure the body shop applies anti-corrosion materials to the parts repaired or replaced.

Bright-metal maintenance

- To remove road tar and insects, use a tar remover, not a scraper or other sharp object.
- To protect the surfaces of bright-metal parts from corrosion, apply a coating of wax or chrome preservative and rub to a high luster.
- During winter weather or in coastal areas, cover the bright metal parts with a heavier coating of wax or preservative. If necessary, coat the parts with non-corrosive petroleum jelly or other protective compound.

Underbody maintenance

Corrosive materials used for ice and snow removal and dust control may collect on the underbody. If these materials are not removed, accelerated rusting can occur on underbody parts such as the fuel lines, frame, floor pan and exhaust system, even though they have been treated with rust protection.

Thoroughly flush the vehicle underbody and wheel openings with lukewarm or cold water once a month, after off-road driving and at the end of each winter. Pay special attention to these areas because it is difficult to see all the mud and dirt. It will do more harm than good to wet down the road grime without removing it. The lower edges of the doors, rocker panels, and frame members have drain holes that should not be allowed to clog with dirt; trapped water in these areas can cause rusting.

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 highspeed vehicle wash brushes.
- Do not use any alkaline or acid detergents 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 long-term corrosion resistance your vehicle can deliver, the owner's cooperation and assistance is also required.

Common causes of corrosion

The most common causes of corrosion on your vehicle are:

- Road salt, dirt and moisture that is allowed to accumulate underneath the vehicle.
- Removal of paint or protective coatings by stones, gravel, abrasion or minor scrapes and dents which leave unprotected metal exposed to corrosion.

High-corrosion areas

If you live in an area where your vehicle is regularly exposed to corrosive materials, corrosion protection is particularly important. Some of the common causes of accelerated corrosion are road salts, dust control chemicals, ocean air and industrial pollution.

Moisture breeds corrosion

Moisture creates the conditions in which corrosion is most likely to occur. For example, corrosion is accelerated by high humidity, particularly when temperatures are just above freezing. In such conditions, the corrosive material is kept in contact with the vehicle’s surface by moisture that evaporates slowly.

Mud is particularly corrosive because it dries slowly and holds moisture in contact with the vehicle. Although the mud appears to be dry, it can still retain the 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 beginning 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 vinyl cleaner, see product instructions for correct usage.

⚠ **CAUTION - Electrical components**

Never allow water or other liquids to come in contact with electrical/electronic components inside the vehicle as this may damage them.

⚠ **CAUTION - Leather**

When cleaning leather products (steering wheel, seats etc.), use neutral detergents or low alcohol content solutions. If you use high alcohol content solutions or acid/alkaline detergents, the color of the leather may fade or the surface may get stripped off.

Cleaning the upholstery and interior trim

Vinyl

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.

Using anything but recommended cleaners and procedures may affect the fabric's appearance and fire-resistant 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.

⚠ **CAUTION - Rear window**

Do not scrape or scratch the inside of the rear window. This may result in damage of the rear window defroster grid.

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Tire specification and pressure label 8-8
Motor number 8-8

DIMENSIONS

Item	mm (in)	
Overall length	4,140 (162.9)	
Overall width	1,800 (70.9)	
Overall height	1,593 (62.7)	
Front tread	205/60R16	1,576 (62.1)
Rear tread	205/60R16	1,585 (62.4)
Wheelbase	2,570 (101.2)	

POWER ELECTRIC SPECIFICATIONS

MOTOR		Max. Output (KW)	81.4
		Max. Torque (Nm)	285
EPCU	INVERTER	Input Voltage	240~413
	LDC	Max. Output (KW)	1.7
CHARGER (OBC)		Max. Output (KW)	6.6

GROSS VEHICLE WEIGHT

Item	
Gross vehicle weight kg (lbs.)	1,960 (4,321)

LUGGAGE VOLUME

Item	
Luggage volume (SAE) cu ft (*l*)	18.79 (532)

AIR CONDITIONING SYSTEM

Item	Weight of volume		Classification
	A/CON (STD)	HEATPUMP (OPT)	
Refrigerant	550±25g	900±25g	R-134a
Compressor lubricant	180±10g		POE (RB100EV)

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

BULB WATTAGE

Light Bulb		Wattage	Bulb type
Front	Headlamps (High)	55	H7LL
	Headlamps (Low)	55	H7LL
	Front turn signal lamps	LED	LED
	Front position lamps	LED	LED
	Front fog lamps*	55	9006
	Front day time running lamps*	LED	LED
	Front side marker	5	W5W
	Side Repeater lamps (Outside Mirror)	LED	LED
Rear	Rear tail,stop lamps and side marker	LED	LED
	Rear tail lamps and side marker	LED	LED
	Rear turn signal lamps	27	PY27W
	Back-up lamps	16	W16W
	High mounted stop lamps	LED	LED
	License plate lamps	5	W5W
Interior	Map lamps	8	FESTOON
	Room lamps	8	FESTOON
	Vanity mirror lamps	5	FESTOON
	Glove box lamps	5	FESTOON
	Luggage lamp	8	FESTOON

*: If equipped

TIRES AND WHEELS

Item	Tire size	Wheel size	Load Capacity		Speed capacity		Inflation pressure kPa (psi)				Wheel lug nut torque kg•m (lb•ft, N•m)
							Normal load		Maximum load		
			LI *1	Kg	SS *2	Km/h	Front	Rear	Front	Rear	
Full size tire	205/60R16	6.5J×16	92	630	H	210	230 (33)				9~11 (65~79, 88~107)

*1 : Load Index
*2 : Speed Symbol

⚠ 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.

✻ NOTICE

We recommend that when replacing tires, use the same originally supplied with the vehicles. If not, that affects driving performance.

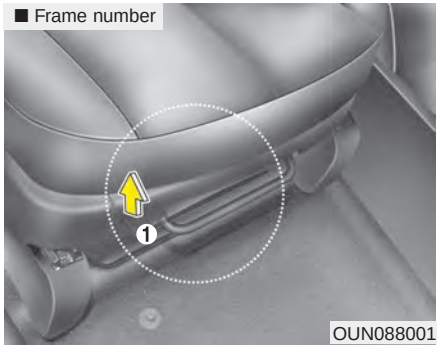
RECOMMENDED LUBRICANTS AND CAPACITIES

To help achieve proper performance, durability, use only lubricants of the proper quality for your vehicle.
These lubricants and fluids are recommended for use in your vehicle.

Lubricant	Volume	Classification
Reduction gear oil	1.3±0.1 *l* (1.4±0.1 US qt.)	75W/85, GL-4
Coolant	5.1 *l* (5.39 US qt.)	Mixture of antifreeze and water (Ethylene glycol base coolant for aluminum radiator)
Brake fluid		FMVSS116 DOT-3 or DOT-4

VEHICLE IDENTIFICATION NUMBER (VIN)

■ Frame number



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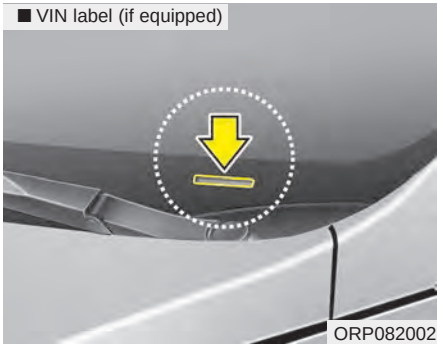
The vehicle identification number (VIN) is the number used in registering your vehicle and in all legal matters pertaining to its ownership, etc.

The number is punched on the floor under the front passenger seat. To check the number, remove the cover (1).

■ VIN label (if equipped)



ORP082002

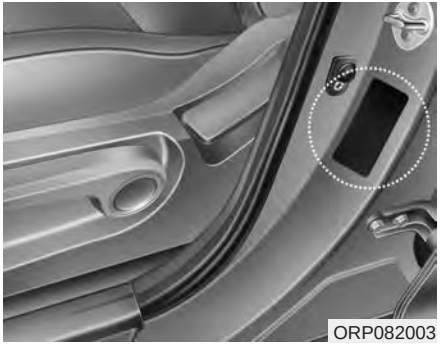
The VIN is also on a plate attached to the top of the dashboard. The number on the plate can easily be seen through the windshield from outside.

VEHICLE CERTIFICATION LABEL

ORP082004

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

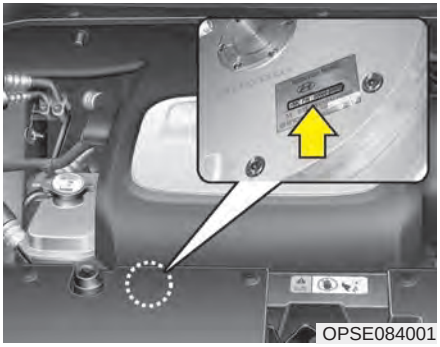
TIRE SPECIFICATION AND PRESSURE LABEL


ORP082003

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

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

MOTOR NUMBER


OPSE084001

The motor number is stamped on the motor compartment as shown in the drawing.

Electric Vehicle Guide

❊ This is an electric vehicle guide to assist drivers with understanding their vehicle.

Refer to the following content for electric vehicle details and precautions

Review of Electric Vehicle 2
Main Components of Electric Vehicle.....4
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Review of Electric Vehicle

An electric vehicle is driven using a battery and an electric motor. While general vehicles use an internal combustion engine and gasoline as fuel, electric vehicles use electrical energy that is stored inside the high voltage battery. As a result, electric vehicles are eco-friendly in that they do not require fuel and do not emit exhaust gases.

Characteristics of Electric Vehicles

1. It is driven using the electrical energy that is stored inside the high voltage battery. This method prevents air pollution since fuel, like gasoline, is not required, negating the emission of exhaust gases.
2. A high performance motor is used in the vehicle as well. Compared to standard, internal combustion engine vehicles, engine noise and vibrations are much more minimal when driving.
3. When decelerating or driving downhill, regenerative braking is utilized to charge the high voltage battery. This minimizes energy loss and increases the distance to empty.
4. When the battery charge is not sufficient, normal charge, quick charge and trickle charge are available. (Refer to “Charge Types for Electric Vehicle” for details.)

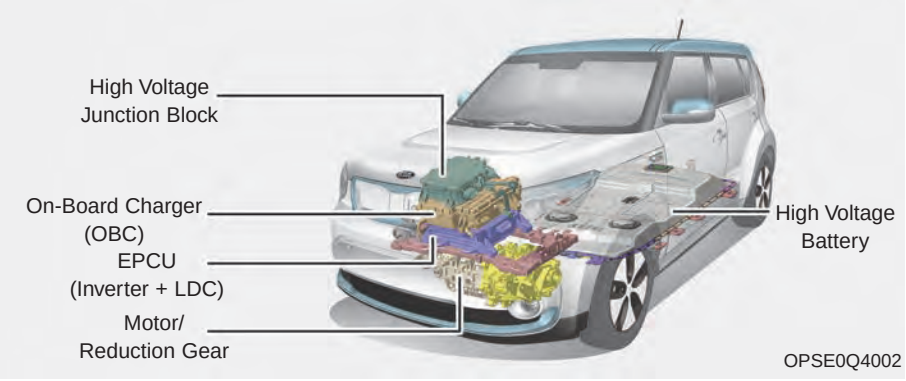
Note

What does regenerative braking do?
It uses an electric motor when decelerating and braking and transforms kinetic energy to electrical energy in order to charge the high voltage battery. (Torque is applied in the opposite direction when decelerating to generate braking force and electric energy.)

Battery Information

- The vehicle is composed of a high voltage battery that drives the motor and air-conditioner, and an auxiliary battery (12 V) that drives the lamps, wipers, and audio system.
- The auxiliary battery is automatically charged when the vehicle is in the ready ( ) mode or the high voltage battery is being charged.

Main Components of Electric Vehicle



- **High Voltage Junction Block:** Supplies power from the high voltage battery to the inverter, LDC, air-conditioner compressor, and PTC heater.
- **On-Board Charger (OBC):** External device (low speed) to charge the high voltage battery.
- **Inverter:** Transforms direct current into alternating current to supply power to the motor, and transforms alternating current into direct current to charge the high voltage battery.
- **LDC:** Transforms power from the high voltage battery to low voltage (12 V) to supply power to the vehicle (DC-DC).
- **Motor:** Uses electrical energy stored inside the high voltage battery to drive the vehicle (functions like an engine in a standard vehicle).
- **Reduction Gear :** Delivers rotational force of the motor to the tires at appropriate speeds and torque.
- **High voltage battery (lithium-ion polymer) :** Stores and supplies power necessary for the electric vehicle to operate (12 V auxiliary battery provides power to the vehicle features such as lights and wipers).

❊ OBC : On-Board Charger

❊ LDC : Low Voltage DC-DC Converter

High Voltage Battery (lithium-ion polymer)

⚠ WARNING - Repair of high voltage components

The high voltage battery in your system in very dangerous and can cause sever burns and electric shock. Never inspect, remove or disassemble any of the the high voltage components in your vehicle. Kia recommends that all inspections and repairs be performed by an authorized and trained Kia dealer.

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- The charge amount of the high voltage battery may gradually decrease when the vehicle is not driving.
- The battery capacity of the high voltage battery may decrease when the vehicle is stored in high/low temperatures.
- Distance to empty may vary depending on the driving conditions, even if the charge amount is the same. The high voltage battery may expend more energy when driving at quick speed or uphill. These actions may reduce the distance to empty.
- The high voltage battery is used when using the air-conditioner / heater. This may reduce the distance to empty. Make sure to set moderate temperatures when using the air-conditioner/heater.
- Natural degradation may occur with the high voltage battery depending on the number of years the vehicle is used. This may reduce the distance to empty.
- When the charge capacity and distance to empty keep falling, we recommend that you contact an authorized Kia dealer for inspection and maintenance.
- If the vehicle will not be in use for an extended period of time, charge the high voltage battery once every three months to prevent it from discharging. Also, if the charge amount is not enough to store the vehicle for an extended period of time, immediately charge to enough state of charge and store the vehicle.

- Normal charge is recommended to keep the high voltage battery in optimal condition.

  If the high voltage battery charge amount is below 20%, you can keep the high voltage battery performance in optimal condition if you charge the high voltage battery to 100%. (Once a month or more is recommended.)
- If the vehicle is in a collision, we recommend that you contact an authorized Kia dealer to inspect whether the high voltage battery is still connected.

⚠ **CAUTION - Damaging high voltage battery**

- ***Make sure to use a designated charger when charging the high voltage battery. Using different types of chargers may have a serious impact on vehicle durability.***
- ***Make sure that the high voltage battery charger gauge does not reach SOC 0% on cluster gauge. If the vehicle is kept at SOC 0% for a long period, it may damage the high voltage battery and the high voltage battery may have to be replaced depending on the level of degradation.***

High Voltage Battery Warmer System

The high voltage battery warmer system prevents reduction of battery output when battery temperature is low. If the charging connector is connected, the warmer system automatically operate according to the battery temperature.

Charging time may shorten compare to vehicles without the high voltage battery warmer system. But, electricity charge may increase because of high voltage battery warmer system operation.

The high voltage battery warmer system operates when the charging connector is connected to the vehicle.

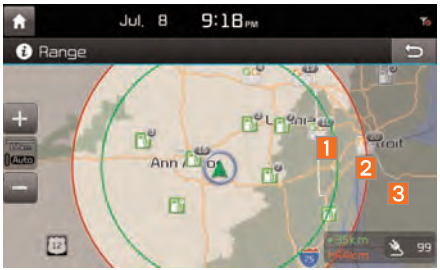
However, the high voltage warmer system may not operate when battery temperature drops below -35°C (-31°F)

EV Mode

If you select the "EV" menu at the AVN home screen or press the "EV" button on the left side of the air-conditioning button panel, you can enter EV mode.

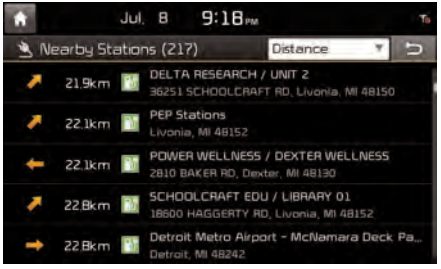
❊ Refer to the AVN manual for details.

The EV mode has a total of 6 menus including Available Range, Near by stations, Energy information, ECO driving, Set timings for Charging /Climate and EV settings.



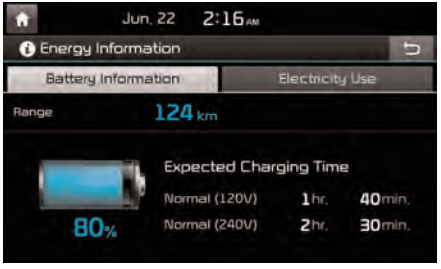
Available Range

Name	Description
1 Green Circle	Reachable area
2 Red Circle	Risky area (depending on circumstances)
3 Grey Area	Unreachable area



■ Near by stations

Stations around the current location is searched. Depending on the symbol color of the station, it is categorized as Reachable area, Risky area and Unreachable area.



■ Energy Information

You can check battery information and power consumption.

▶ Battery Information

You can check the available range, battery charge amount that can be used, and expected charging time for each charge type.

▶ Power Consumption

Power that is consumed by the drive system, climate and electrical components are displayed respectively.

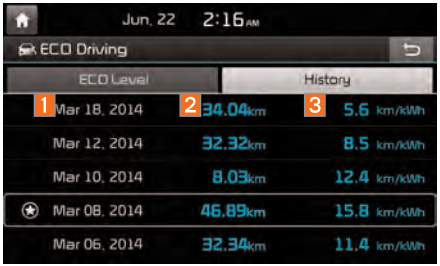
You can check how far the vehicle can drive currently, and how much more the vehicle can drive if the climate is turned OFF.

ECO Driving

You can check ECO level information and ECO driving history.

▶ ECO Level

A total of 8 ECO levels and the average energy consumption are displayed depending on vehicle driving style.



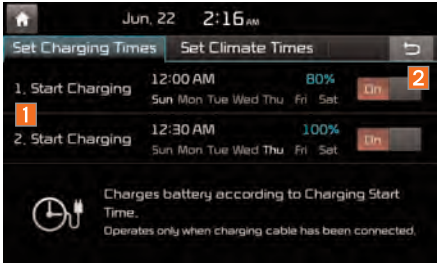
▶ Driving History

You can check the driving date 1, driving distance 2, and the average energy consumption 3 rating for previous driving trips. The date with the highest ECO level is marked with a star shaped icon.

Set Charging Times

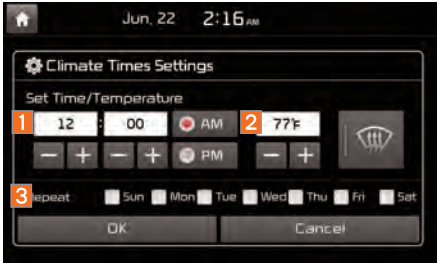
This is a feature that starts charging the battery on the date and time that is designated by the user. Two separate reservations can be set.

Name	Description
1 Start Charging	Select the time that you wish to start charging the battery
2 Charging Ratio	Select the maximum charge ratio.
3 Repeat Day of Week	Select the day of the week you wish to reserve for automatic charging.



Setting is saved and setting information is displayed on the screen.

	Description
1	When selecting the list again, change the setting.
2	If you do not want to use the reserved setting, select OFF.

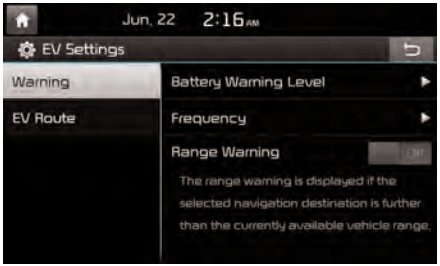


Set Climate Times

This is a feature that automatically starts climate control on the reserved day and time along with the temperature designated by the user. Two separate reservations can be set.

Name	Description
1 Vehicle Departure Time	Enter the anticipated departure time for the vehicle.
2 Set Temperature	Enter the temperature that you desire.
3 Repeat Day of Week	Select the day of the week you wish to reserve for automatic air conditioning.

	Description
1	When selecting the list again, change the setting.
2	If you do not want use the reserved setting, select OFF.



■ EV Setting

You can change the EV warning alarm.

▶ Warning Settings

– **Low battery warning** : You can select several battery levels at which to display an alarm message.

– **Frequency** : You can select the repetition interval to display the Low battery warning.

– **Destination Unreachable Warning** : If the destination set in the navigation cannot be reached with the remaining battery charge, a warning message is displayed.

Charging Information

- **Normal Charge :**

  We recommend using normal charging for usual charging of the vehicle.

  (Refer to “Normal Charge.“ in this chapter)

- **Quick Charge :**

  You can charge at high speeds at public charging stations. Refer to the respective company's manual that is provided for each quick charger type.

  Battery performance and durability can deteriorate if the quick charger is used constantly.

  Use of quick charge should be minimized in order to help prolong high voltage battery life.

- **Trickle Charge :**

  Trickle Charge can be used when Normal Charge or Quick Charge is not available by using household electricity.

Charging Time Information

- **Normal Charge :**

  Takes about 4-5 hours at room temperature (depending on charger) for a full charge (208V - 6.6kW: 4h 50min, 240V - 6.6kW: 4h 10min.) (Can be charged to 100%.)

- **Quick Charge :**

  Takes about 33 minutes at room temperature. (50 kW charger) (Can be charged to 83%.)

  If you charge a second time after the initial quick charge (up to 83%), it will charge up to 94%. (Takes an additional 15 minutes at room temperature.)

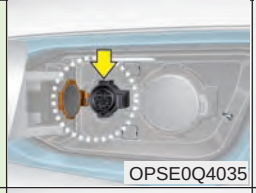
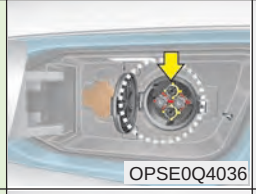
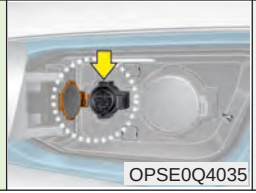
  During cold weather, quick charging may not be available to prevent battery degradation.

- **Trickle Charge :**

  Takes up to 24 hours at room temperature. (120V-12A : 24hours) (Can be charged to 100%.)

Depending on the condition and durability of the high voltage battery, charger specifications, and ambient temperature, the time required for charging the high voltage battery may vary.

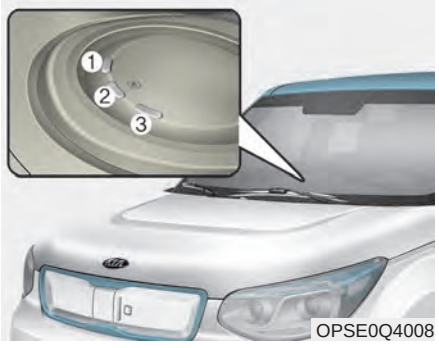
Charging Types

Category	Charging Inlet (Vehicle)	Charging Connector	Charging Outlet	How to Charge	Charging Time
Normal Charge	 OPSE0Q4035	OPSE0Q4005	OPSE0Q4057N	Use the normal charger that is installed in your home or public charging station	Approx. 4-5 hours (208V - 6.6kW: 4h 50min, 240V - 6.6kW: 4h 10min. room temperature) (Can be charged to 100%)
Quick Charge	 OPSE0Q4036	OPSE0Q4006	OPSE0Q4004	Use the quick charger at public charging station	Approx. 33 min (50 kW, room temperature) (Can be charged to 83%)
Trickle Charge	 OPSE0Q4035	OPSE0Q4005	OPSE0Q4007	Use household electricity	Approx. 24hours (120V-12A: 24hours, room temper-ature) (Can be charged to 100%)

❊ Shape of charger and how to use the charger may be different for each manufacturer.

❊ Depending on the condition and durability of the high voltage battery, charger specifications, and ambient temperature, the time required for charging the high voltage battery may vary.

Charging Status Information



When charging the high voltage battery, the charge level can be checked from outside the vehicle.

❊ Displayed for normal charging and trickle charging.

Operation of Charging Indicator Lamp			Details	
(1)	(2)	(3)		
○ (OFF)	○ (OFF)	○ (OFF)	Not Charged	
Blinking	○ (OFF)	○ (OFF)	Charging	0~33%
● (ON)	Blinking	○ (OFF)		34~66%
● (ON)	● (ON)	Blinking		67~99%
● (ON)	● (ON)	● (ON)	Charging complete (100%)(turns OFF in 3 seconds)	
Blinking	Blinking	Blinking	Error while charging /If charging cables are connected when the vehicle is in the ready mode or the POWER button is in the ON position.	
○ (OFF)	○ (OFF)	Blinking	Charging 12 V auxiliary battery or reserved air conditioner is operating	
○ (OFF)	Blinking	○ (OFF)	Reserved charging is operating (turns OFF after 3 minutes)	

Reserved Charging

- You can set reserved charging using the AVN.

  Refer to the AVN for detailed information about setting reserved charging.
- Reserved charging can only be done when using a normal charger or the portable charging cable (ICCB: In-Cable Control Box).

OPSE0Q4027

- When reserved charging is set and the normal charger or the portable charging cable (ICCB: In-Cable Control Box) is connected for charging, the indicator lamp in the middle blinks (for 3 minutes) to indicate that reserved charging is set.
- When reserved charging is set, charging is not initiated immediately when the normal charger or portable charging cable (ICCB: In-Cable Control Box) is connected. When immediate charging is required, use the AVN to deactivate the reserved charge setting or press the Deactivate Reserved Charge button [OFF].

OPSE0Q40013

To immediately charge the battery (not at reserved time only) first connect the charging cables. Then, the Deactivate Reserved Charge button [OFF] should be pressed within three minutes after the cable connection.

If the battery does not charge after the Deactivate Reserved Charge button [OFF] has been pressed, remove the charging cable and reconnect it.

After the Deactivate Reserved Charge button [OFF] has been pressed (pressed position), you can charge the battery at any given time.

To change the status to reserved charging, please press the Deactivate Reserved Charge button [OFF] again (not pressed position).

❊ Refer to "Normal Charge, Trickle Charge" for details about connecting the normal charger and the portable charging cable (ICCB: In-Cable Control Box).

Reserved Climate Control

- You can set reserved climate control using the AVN.

  Refer to the AVN for detailed information about the reserved climate control setting.
- Reserved climate control can only be done when using the normal charger or portable charging cable (ICCB: In-Cable Control Box).
- If reserved climate control is set and the charging cable is connected, reserved climate control starts operating 30 minutes prior to the set time (departure time).

❊ Refer to "Normal Charge, Trickle Charge" for details about connecting the normal charger and the portable charging cable (ICCB: In-Cable Control Box).

OPSE0Q4010N

- If you press the Set Reserved climate control button [◷❄], the indicator lamp on the button blinks three times and the reserved climate control setting screen is displayed on the AVN.

  Refer to the AVN manual for details about setting reserved climate control.

❊ Lamp ON Conditions

1. Blinks three times: When you press the set button and enter the AVN reserved climate control setting screen.
2. ON: When reserved air conditioning is set.
3. Blinking: Reserved climate control is operating (only operates when the charging cable is connected).

Charging Precautions

■ Normal Charger

OPSE0Q4057N

■ Quick Charger

OPSE0Q4004

❊ Shape of charger and how to use the charger may be different for each manufacturer.

⚠ WARNING - Fires caused by dust or water

Do not connect the charging cable connector plug to the vehicle if there is water or dust on the charging inlet. Connecting while there is water or dust on the charging cable connector and plug may cause a fire or electric shock.

⚠ WARNING - Interference with electronic medical devices

When using medical electric devices such as an implantable cardiac pacemaker, make sure to ask the medical team and manufacturer whether charging your electric vehicle will impact the operation of the medical devices. In some instances, electromagnetic waves that are generated from the charger can seriously impact medical electric devices such as an implantable cardiac pacemaker.

⚠ WARNING - Touching the charging connector

Do not to touch the charging connector, charging plug, and the charging inlet when connecting the cable to the charger and the charging inlet on the vehicle. Doing so may result in electrocution.

- Comply with the following in order to prevent electrical shock when charging:
  - Use a waterproof charger.
  - Make sure to not touch the charging connector and charging plug when your hand is wet. Do not stand in water or snow when connecting the charging cable.
  - Do not charge when there is lightning.
  - Do not charge when the charging connector and plug is wet.

⚠ WARNING - Charging cable

- **Immediately stop charging when you find abnormal symptoms (smell, smoke).**
- **Replace the charging cable if the cable coating is damaged to prevent electrical shock.**
- **When connecting or removing the charging cable, make sure to hold the charging connector handle and charging plug.**

  If you pull the cable itself (without using the handle), the internal wires may disconnect or get damaged. This may lead to electric shock or fire.

⚠ WARNING - Cooling fan

Do not touch the cooling fan while vehicle is charging. When the vehicle is switched [OFF] while charging, the cooling fan inside the motor compartment may automatically operate.

- Always keep the charging connector and charging plug in clean and dry condition. Be sure to keep the charging cable in a condition where there is no water or moisture.
- Make sure to use the designated charger for charging the electric vehicle. Using any other charger may cause failure.
- Before charging the battery, turn the vehicle [OFF].
- Be careful not to drop the charging connector. The charging connector can be damaged.

Normal Charge

■ Normal Charger

OPSE0Q4057N

We recommend using normal charging for usual charging of the vehicle.

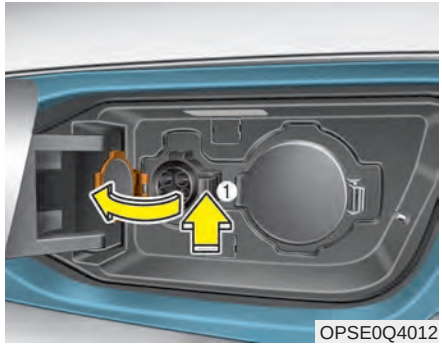
OPSE0Q4011

■ How to Connect Normal Charger

1. While the brake pedal is pressed, engage the parking brake.
2. Turn OFF all switches, place the shift lever in P (Park), and turn OFF the vehicle.
3. Press the charging door open switch [OPEN] to open the charging door.
4. If you cannot open the charging door due to freezing weather :
   1) Remove any ice near the charging door.
   2) Pull the emergency cable to open the charging door.

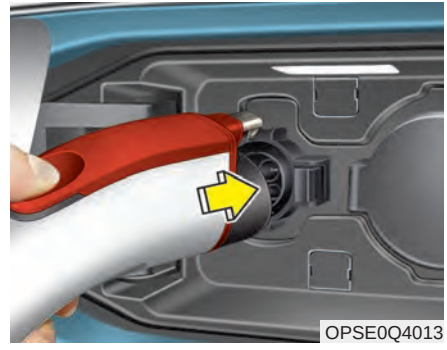
   (When the charging door does not open, refer to “How to Unlock Charging Door in Emergencies.”)

❋ **Shape of charger and how to use the charger may be different for each manufacturer.**



OPSE0Q4012

5. Open the charging door and press the normal charging inlet cover release tab (1) to open the normal charging inlet cover.


OPSE0Q4013

6. Remove any dust on the charging connector and charging inlet.
7. Hold the charging connector handle and connect it to the vehicle normal charging inlet. Push the connector until you hear a "clicking" sound.

OPSE0Q4014

8. Check if the charge indicator lamp of the high voltage battery in the instrument cluster is turned ON. Charging is not done when the charging indicator lamp is OFF.

   When the charging connector is not connected properly, reconnect the charging cable to charge.

- You can start charging when the Power button is in the OFF position and the shift lever is in P (Park). After charging has started, you can use electrical components such as the radio by pressing the Power button to the ACC or ON position.
- If you move the shift lever from P (Park) to R (Rear), N (Neutral), D (Drive), charging stops immediately. If you want to start charging again, place the shift lever to P (Park) and press the Power button to the OFF position. Unplug and reconnect the charging cable to start charging again.

OPSE044044L

9. After charging has started, the estimated charging time is displayed on the instrument cluster for about 1 minute.

   If you open the driver seat door while charging, the estimated charging time is also displayed on the instrument cluster for about 1 minute.

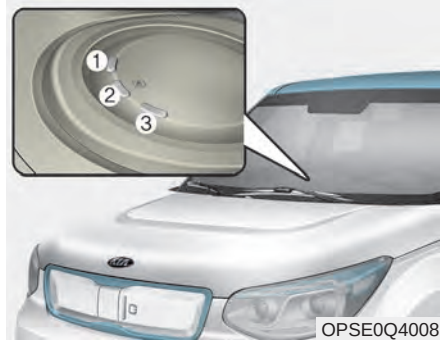
   When reserved charging is set, the estimated charging time is displayed as “--" .

Depending on the condition and durability of the high voltage battery, charger specifications, and ambient temperature, the time required for charging the battery may vary.

OPSE0Q4016

■ Unlock Charging Door in Emergency

If the charging door does not open due to battery discharge and failure of the electric wires, open the hood and slightly pull the emergency cable as shown above. The charging door will then open.

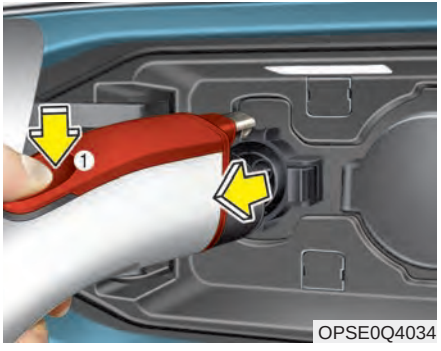


OPSE0Q4008

■ Checking Charging Status

When charging the high voltage battery, the charge level can be checked from outside the vehicle.

Operation of Charging Indicator Lamp			Details	
(1)	(2)	(3)		
○ (OFF)	○ (OFF)	○ (OFF)	Not Charged	
Blinking	○ (OFF)	○ (OFF)	Charging	0~33%
● (ON)	Blinking	○ (OFF)		34~66%
● (ON)	● (ON)	Blinking		67~99%
● (ON)	● (ON)	● (ON)	Charging complete (100%)(turns OFF in 3 seconds)	
Blinking	Blinking	Blinking	Error while charging /If charging cables are connected when the vehicle is in the ready mode or the POWER button is in the ON position.	
○ (OFF)	○ (OFF)	Blinking	Charging 12 V auxiliary battery or reserved air conditioner is operating	
○ (OFF)	Blinking	○ (OFF)	Reserved charging is operating (turns OFF after 3 minutes)	

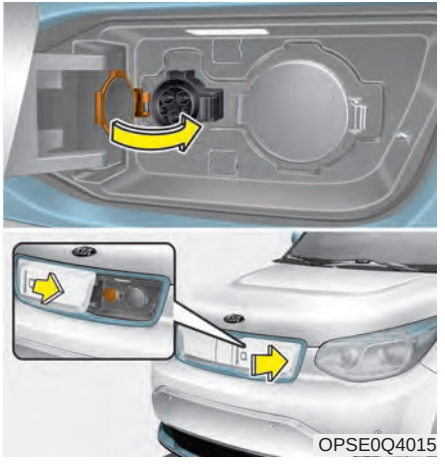


How to Disconnect Normal Charger

1. Hold the charging connector handle and pull it while pressing the release button (1).

⚠ CAUTION - Disconnecting charging plug

When disconnecting the charging connector, do not try to disconnect it by force while not pressing the release button. This may damage the charging connector and vehicle charging inlet.



2. Make sure to completely close the normal charging inlet cover.
3. Make sure to completely close the charging door.

Quick Charge

■ Quick Charger

OPSE0Q4004

You can charge at high speeds at public charging stations. Refer to the respective company's manual that is provided for each quick charger type.

Battery performance and durability can deteriorate if the quick charge is used constantly in hot weather conditions (heat wave, etc.)

Use of quick charge in hot weather condition should be minimized in order to help prolong high voltage battery life.

❊ Shape of charger and how to use the charger may be different for each manufacturer.

❊ If you use a quick charger when the vehicle is already fully charged, some quick chargers will send out an error message. When the vehicle is fully charged, do not charge the vehicle.

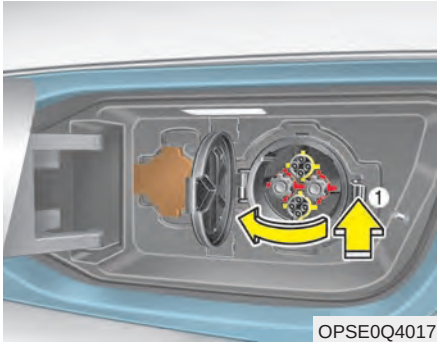
OPSE0Q4011

■ How to Connect Quick Charger

1. While the brake pedal is pressed, engage the parking brake.
2. Turn OFF all switches, place the shift lever in P (Park), and turn OFF the vehicle.
3. Press the charging door open switch [OPEN] to open the charging door.

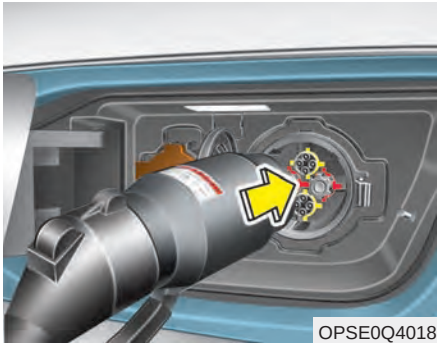
4. If you cannot open the charging door due to freezing weather :
   1) Remove any ice near the charging door.
   2) Pull the emergency cable to open the charging door.

   (When the charging door does not open, refer to “How to Unlock Charging Door in Emergencies.”)



OPSE0Q4017

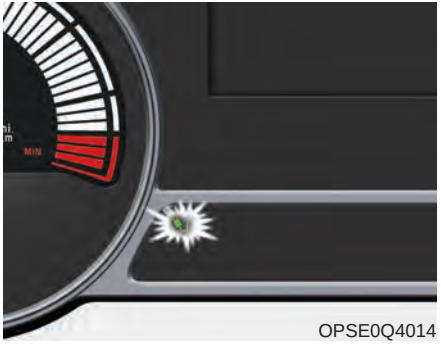
5. Open the charging door and press the quick charging inlet release tab (1) to open the quick charging inlet cover.


OPSE0Q4018

6. Remove any dust or foreign substances inside the charging connector and charging inlet.
7. Hold the charging connector handle and connect it to the vehicle quick charging inlet. Push the connector until you hear a "clicking" sound.

❊ Refer to the manual for each type of quick charger for how to charge and remove the charger.

❊ The shape of the charging connector may vary depending on the manufacturer.



OPSE0Q4014

8. Check if the charge indicator lamp of the high voltage battery in the instrument cluster is turned ON. Charging is not done when the charging indicator lamp is OFF.

   When the charging connector is not connected properly, reconnect the charging cable to charge it again.

9. If you charge a second time after the initial quick charge (up to 83%), it will charge up to 94%. (Takes an additional 15 minutes at room temperature.)

   Additional charging can be done by removing the charging connector and then reconnecting, or the quick charger screen is reinitialized after completing the initial charge (83%).

❊ If you use a quick charger when the vehicle is already fully charged, some quick chargers will send out an error message. When the vehicle is fully charged, do not charge the vehicle.

❊ During cold weather, quick charging may not be available to prevent high voltage battery degradation.

- You can start charging when the Power button is in the OFF position and the shift lever is in P (Park).

  After charging has started, you can use electrical components such as the radio by pressing the Power button to ACC or ON position.
- If you move the shift lever from P (Park) to R (Reverse), N (Neutral), D (Drive), charging stops immediately. If you want to start charging again, place the shift lever to P (Park) and press the Power button to the OFF position. Unplug and reconnect the charging cable to start charging again.

OPSE0Q4016

■ Unlock Charging Door in Emergency

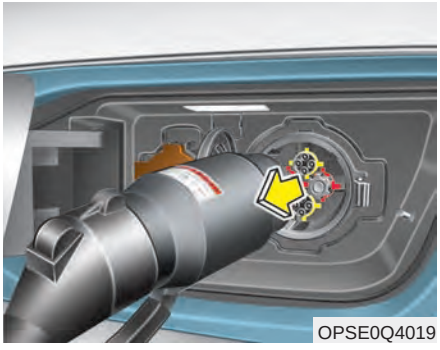
If the charging door does not open due to battery discharge and failure of the electric wires, open the hood and slightly pull the emergency cable as shown above. The charging door will then open.

OPSE0Q4029

■ Checking Charging Status

The charging indicator lamp does not display during quick charging. Check the charging status on the quick charger screen.

Depending on the condition and durability of the high voltage battery, charger specifications, and ambient temperature, the time required for charging the battery may vary.


OPSE0Q4019

How to Disconnect Quick Charger

1. Remove the charging connector when quick charging is completed, or after you stop charging using the quick charger. Refer to each respective quick charger manual for details about how to disconnect the charging connector.

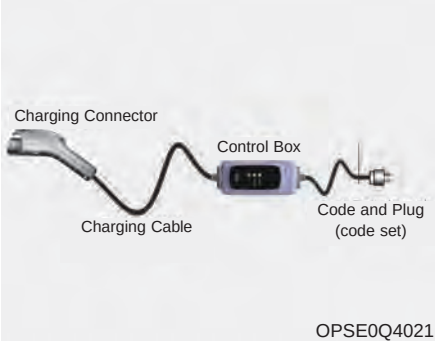
⚠ **CAUTION - Disconnecting charging plug**

When disconnecting the charging connector, do not try to disconnect it by force while not pressing the release button. This may damage the charging connector and vehicle charging inlet.

OPSE0Q4020

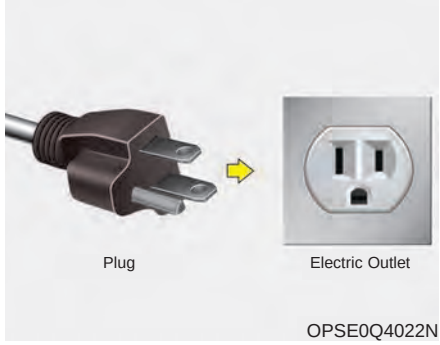
2. Make sure to completely close the quick charging inlet cover.
3. Make sure to completely close the charging door.

Trickle Charge



OPSE0Q4021

Trickle Charge can be used when Normal Charge or Quick Charge is not available by using household electricity.



OPSE0Q4022N

How to Connect Portable Charging Cable (ICCB: In-Cable Control Box)

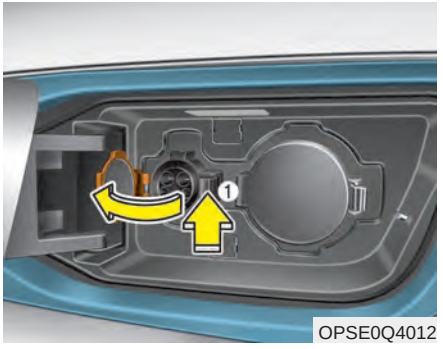
1. Connect the plug to a household electric outlet.

OPSE0Q4023

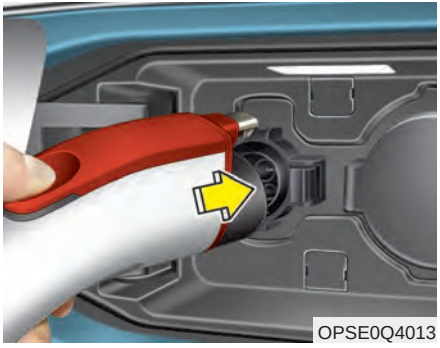
2. Check if every LED lamp on the control box is turned on for 0.5 seconds. Then, check if the power lamp (green) turns ON.

3. While the brake pedal is pressed, engage the parking brake.
4. Turn OFF all switches, place the shift lever in P (Park), and turn OFF the vehicle.
5. Press the charging door open switch [OPEN] to open the charging door.
6. If you cannot open the charging door due to freezing weather :
   1) Remove any ice near the charging door.
   2) Pull the emergency cable to open the charging door.

   (When the charging door does not open, refer to “How to Unlock Charging Door in Emergencies.”)



7. Open the charging door and press the normal charging inlet release tab (1) to open the normal charging inlet cover.


OPSE0Q4013

8. Open the protective cover of the charging connector and remove any dust on the charging connector and charging inlet.
9. Hold the charging connector handle and connect it to the vehicle normal charging inlet. Push the connector until you hear a "clicking" sound.

OPSE0Q4044

10. Charging starts automatically. Check if the power lamp and charging lamp (orange) are ON.

OPSE0Q4014

11. Check if the charge indicator lamp of the high voltage battery in the instrument cluster is turned ON. Charging is not done when the charging indicator lamp is OFF.

    When the charging connector is not connected properly, reconnect the charging cable to charge it again.

- You can start charging when the Power button is in the OFF position and the shift lever is in P (Park).

  After charging has started, you can use electrical components such as the radio by pressing the Power button to ACC or ON position.
- If you move the shift lever from P (Park) to R (Reverse), N (Neutral), D (Drive), charging stops immediately. If you want to start charging again, place the shift lever to P (Park) and press the Power button to the OFF position. Unplug and reconnect the charging cable to start charging again.

OPSE044044L

12. After charging has started, the estimated charging time is displayed on the instrument cluster for about 1 minute.

    If you open the driver seat door while charging, the estimated charging time is also displayed on the instrument cluster for about 1 minute.

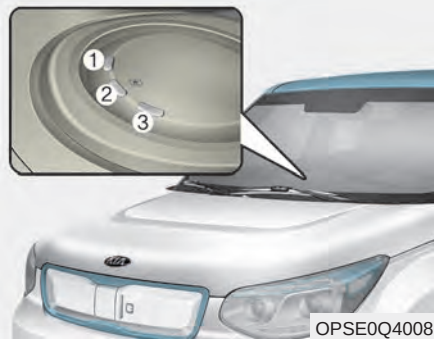
    When reserved charging is set, the estimated charging time is displayed as “--" .

Depending on the condition and durability of the high voltage battery, charger specifications, and ambient temperature, the time required for charging the battery may vary.

OPSE0Q4016

■ Unlock Charging Door in Emergency

If the charging door does not open due to battery discharge and failure of the electric wires, open the hood and slightly pull the emergency cable as shown above. The charging door will then open.



OPSE0Q4008

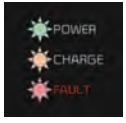
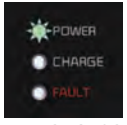
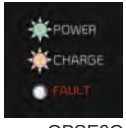
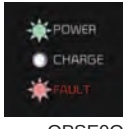
■ Checking Charging Status

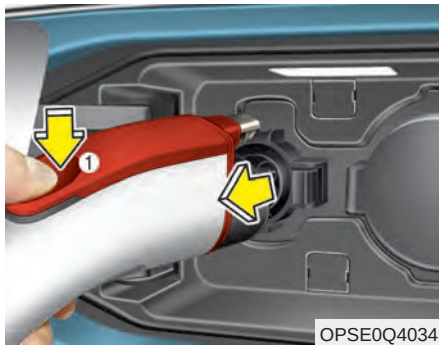
When charging the high voltage battery, the charge level can be checked from outside the vehicle.

Operation of Charging Indicator Lamp			Details	
(1)	(2)	(3)		
○ (OFF)	○ (OFF)	○ (OFF)	Not Charged	
Blinking	○ (OFF)	○ (OFF)	Charging	0~33%
● (ON)	Blinking	○ (OFF)		34~66%
● (ON)	● (ON)	Blinking		67~99%
● (ON)	● (ON)	● (ON)	Charging complete (100%)(turns OFF in 3 seconds)	
Blinking	Blinking	Blinking	Error while charging /If charging cables are connected when the vehicle is in the ready mode or the POWER button is in the ON position.	
○ (OFF)	○ (OFF)	Blinking	Charging 12 V auxiliary battery or reserved air conditioner is operating	
○ (OFF)	Blinking	○ (OFF)	Reserved charging is operating (turns OFF after 3 minutes)	

■ Charging Status Indicator Lamp for Portable Charging Cable

Category	Lamp ON	Lamp OFF	Blinking
LED Status	●	-	⊙

Charger Status		Control Box ON/OFF Status	Power	Charge	Fault	Status / Diagnosis / Countermeasure
Initial Preparation Mode		 OPSE0Q4045	●	●	●	When applying power to the initial ICCB wall
Charging Preparation Mode		 OPSE0Q4046	●	-	-	When ICCB charging connector is not connected to the vehicle, or connected but charging status is in Standby mode
Charging Mode		 OPSE0Q4048	●	●	-	Charging
Failure	Detects Leakage	 OPSE0Q4047	●	-	⊙	Stop charging immediately when a leak is detected on the ICCB output terminal (we recommend that you contact an authorized Kia dealer)
	ICCB Failure		●	-	●	When a failure is detected inside the ICCB (we recommend that you contact an authorized Kia dealer)

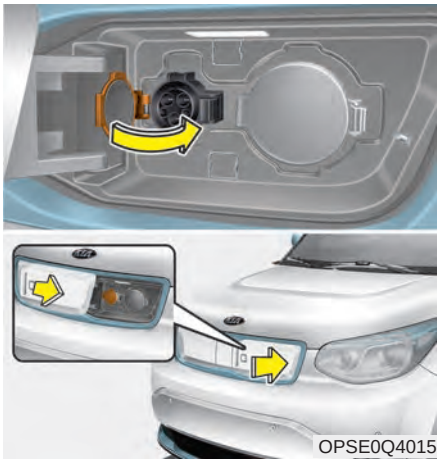


How to Disconnect Portable Charging Cable (ICCB: In-Cable Control Box)

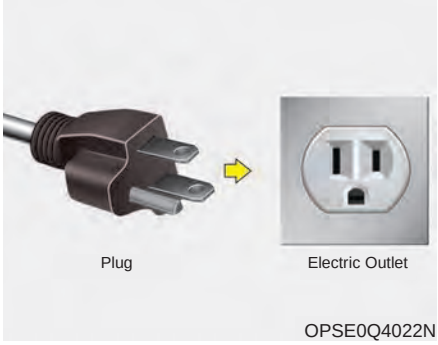
1. Hold the charging connector handle and pull it while pressing the release button (1).

⚠ CAUTION - Disconnecting charging plug

When disconnecting the charging connector, do not try to disconnect it by force while not pressing the release button. This may damage the charging connector and vehicle charging inlet.



2. Make sure to completely close the normal charging inlet cover.
3. Make sure to completely close the charging door.



4. Disconnect the plug from the household electric outlet. Do not pull the cable when disconnecting the plug.
5. Close the protective cover for the charging connector so that foreign substances do not flow into the terminal.
6. Put the charging cable inside the cable compartment to protect it.

Precautions for Portable Charging Cable (ICCB: In-Cable Control Box)

- Use the portable charging cable that is certified by Kia Motors.
- Do not try to repair, disassemble, or adjust the portable charging cable.
- Do not use an extension cord or adapter.
- Stop using immediately when failure occurs.
- Do not touch the plug and charging connector with wet hands.
- Do not touch the terminal part of the normal charging connector and the normal charging inlet on the vehicle.
- Do not connect the charging connector to voltage that does not comply with regulations.
- Do not use the portable charging cable if it is worn out, exposed, or there exists any type of damage on the portable charging cable.
- If the ICCB case and normal charging connector is damaged, cracked, or the wires are exposed in any way, do not use the portable charging cable.
- Do not let kids operate or touch the portable charging cable.
- Keep the control box free of water.
- Keep the normal charging connector or plug terminal free of foreign substances.
- Do not step on the cable or cord. Do not pull the cable or cord and do not twist or bend it.
- Do not charge when there is lightning.
- Do not drop the control box or place a heavy object on the control box.
- Do not place an object that can generate high temperatures near the charger when charging.

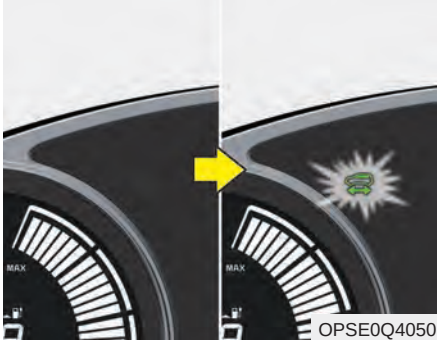
How to Start the Vehicle

OPSE0Q4049

1. With the smart key, sit in the driver's seat.
2. Fasten the safety belt before starting the vehicle.
3. Make sure to engage the parking brake for your safety.
4. Turn OFF all electrical devices.
5. Make sure the accelerator and brake pedal have clearance with your right foot.
6. Make sure to press and hold the brake pedal.
7. While pressing the brake pedal, place the shift lever in P (Park).

Vehicle only starts when the shift lever is placed in P (Park).

8. Press and hold the brake while pressing the POWER button.



OPSE0Q4050

9. When (indicator lamp) is ON, you can drive the vehicle.

   When (indicator lamp) is OFF, you cannot drive the vehicle. Start the vehicle again.

10. Press and hold the brake pedal and place the shift lever in the desired position.

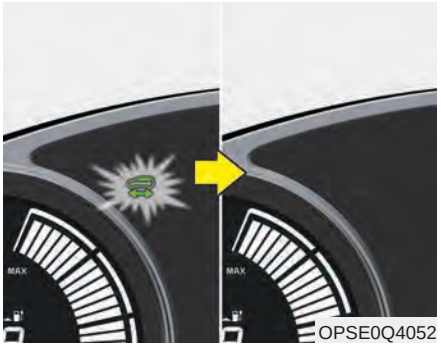
How to Stop the Vehicle

❊ For vehicles with Shift Lock, you have to press the POWER button to the ON position, press and hold the brake pedal, then press the unlock button on the shift lever while it is placed in P (Park) in order to move the shift lever to R (Reverse).

- While the charging cable is connected, you cannot use the shift lever for safety reasons.

11. Release the parking brake and slowly release the brake pedal. Check if the vehicle slowly moves forward, then press the accelerator pedal.

1. Hold down the brake pedal while the vehicle is parked.
2. While pressing the brake pedal, place the shift lever in P (Park).
3. While pressing the brake pedal, engage the parking brake.
4. While pressing the brake pedal, press the POWER button and stop the vehicle.



5. Check if (indicator lamp) is turned OFF on the instrument cluster.

   When (indicator lamp) is ON and the shift lever is in a position other than P (Park), the driver can accidently press the accelerator pedal, causing the vehicle to move unexpectedly.

Pedestrian Warning System

The Pedestrian Warning System generates engine sound for pedestrians to hear vehicle sound because there is little sound while the Electric Vehicle (EV) is operating.

If the vehicle is moving low speed, the Pedestrian Warning System will operated.

- When the reduction gear is shifted to [R], the Pedestrian Warning System will be operated immediately.
- The vehicle generates little sound. Be aware of your driving environment and drive safely.
- After you park the vehicle or while you are waiting at a traffic light, check whether there are kids or obstacles around the vehicle.
- Check if there is something behind the vehicle when driving in reverse. Pedestrians may not hear the sound of the vehicle.

Active ECO system

OPSE0Q4043N

Active ECO helps improve energy efficiency by controlling certain motor and climate contol system operating parameters. Energy efficiency depends on the driver's driving habit and road condition.

- When the Active ECO button is pressed the ECO indicator (green) will illuminate to show that the Active ECO is operating.
- When the Active ECO is activated, it will remain on until the Active ECO button is pressed again. Active ECO does not turn off when the vehicle is restarted. To turn off Active ECO, press the Active ECO button again.
- If Active ECO is turned off, the system will return to normal mode.

Range

OPSE0Q4026C

On average, a vehicle can drive about 148km (93miles) when the high voltage battery is 100% charged.

Under certain circumstances where the air conditioner/heater is ON, the distance to empty is impacted, resulting in a possible distance range from 100~230km. (62~143mi). When using the heater during cold weather or driving at high speed, the high voltage battery consumes a lot more electricity. This may reduce the distance to empty significantly.

After "---" has been displayed, the vehicle can drive an additional 5~15km. (3.1~9.3mi) (depending on driving speed, heater/air conditioner, weather, driving style, and other factors).

Distance to empty that is displayed on the instrument cluster after completing a recharge may vary significantly depending on previous operating patterns.

When previous driving patterns include high speed driving, resulting in the driving battery using more electricity than usual, the estimated distance to empty is reduced. When the high voltage battery uses a little electricity in ECO mode, the estimated distance to empty increases.

Distance to empty may depend on many factors such as the charge amount of the high voltage battery, weather, temperature, durability of the battery, geographical features, and driving style.

Natural degradation may occur with the high voltage battery depending on the number of years the vehicle is used. This may reduce the distance to empty.

Tips for Improving Distance to Empty

- If you operate the air conditioner /heater too much, the driving battery uses too much electricity. This may reduce the distance to empty. Therefore, it is recommended that you set the cabin temperature to (23°C (73°F)) AUTO. This setting that has been certified by various assessment tests to maintain optimal energy consumption rates while keeping the temperature fresh.

  Turn OFF the heater and air conditioner if you do not need them.
- Press and hold the accelerator pedal to maintain speed and drive economically.
- Gradually press and release the accelerator pedal when accelerating or decelerating.
- Always maintain specified tire pressures.
- Do not use unnecessary electrical components while driving.
- Do not load unnecessary items in the vehicle trunk.
- Do not mount parts that may increase air resistance.

Motor Operation Gauge

OPSE044302

It shows the energy consumption rate of the vehicle and the charge/discharge status of the regenerative brakes.

- **POWER** : It shows the energy consumption rate of the vehicle when driving uphill or accelerating. The more electric energy is used, the higher the gauge level.
- **ECO GUIDE** : It shows the energy consumption rate during normal driving condition.
- **CHARGE** : It shows the charging status of the battery when it is being charged by the regenerative brakes (decelerating or driving on a downhill road). The more electric energy is charged, the lower the gauge level

State of charge (SOC) gauge for high voltage battery

OPSE044303

- It shows the charging status of the high voltage battery.

  [MIN] position on the indicator indicates that there is not enough energy in the high voltage battery. [MAX] position indicates that the driving battery is fully charged.
- When driving on highways or motorways, make sure to check in advance if the driving battery is charged enough.

OPSE044305

When there are 4 gauge bars (near the "MIN" area) on the high voltage charge indicator, the warning lamp turns ON to alert you of the battery level.

When the warning lamp turns ON, the vehicle can drive an additional 20~40 km (12.4~24.8 miles) (depending on the driving speed, heater/air conditioner, weather, driving style, and other factors). Charging is required.

When there are 1-2 gauge bars left for the high voltage battery, the vehicle speed is limited and then eventually the vehicle will be turned OFF. Charge the vehicle immediately.

Warning Message on LCD Display (related to charge)

■ Low Battery

OPSE044213L

When the high voltage battery level reaches below 20%, this warning message illuminates.

In this case, the warning lamp on the instrument cluster ( ) turns ON simultaneously.

Charge the high voltage battery immediately.

■ Low Battery. Charge immediately

OPSE044214L

When the high voltage battery level reaches below 10%, this warning message illuminates .

In this case, the warning lamp on the instrument cluster ( ) turns ON simultaneously and the distance to empty gauge will be displayed as “---”.

Charge the high voltage battery immediately.

■ Charge immediately. Power limited

OPSE044215L

When the high voltage battery level reaches below 7%, this warning message illuminates.

In this case, the warning lamp on the instrument cluster ( ) and the power down warning lamp ( )turn ON simultaneously and the distance to empty gauge will be displayed as “---”.

The vehicle’s power will be reduced to minimize the energy consumption of the high voltage battery. Charge the battery immediately.

Power limited

OPSE044264L

In the following cases, this warning message illuminates when the vehicle's power is limited for the safety.

– When the high voltage battery is below a certain level, or voltage is decreasing.
– When the temperature of the motor or high voltage battery is too high or too low.
– When there is a problem with the cooling system or a failure that may interrupt normal driving.

- When this warning messages is displayed, do not accelerate or start the vehicle suddenly.
- Charge the battery immediately when the high voltage battery level is not enough.

Unplug vehicle to start

OPSE044223L

When the vehicle is started while the charging connector is connected, this warning message illuminates.

Remove the charging connector and start the vehicle.

Warning Lamp and Indicator Lamp (related to electric vehicle)

Charging Door Open

OPSE044224L

When the vehicle is started while the charging door is opened, this warning message illuminates. Make sure to close the charging door after charging is complete.

Ready indicator light

WPSE002G

This warning light illuminates :

When the vehicle is ready to drive.

– ON: Normal driving is available.

– OFF: Normal driving is not available, or a failure has occurred.

– Blinking: Emergency driving.

When ready indicator light is OFF or blinking, there is a failure. In this case, have your vehicle inspected by an authorized Kia dealer

Service Warning Light

WPSE-301Y

This warning light illuminates :

- Once you set the POWER Button to the ON position.

– It illuminates for approximately 3 seconds

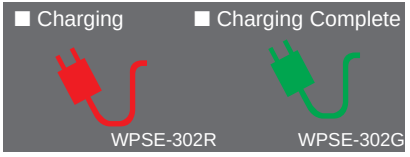
- There is a failure with a sensor, actuator, or the electric compressor for the air conditioner related to the electric vehicle control system. When the warning light turns ON while driving, or does not turn OFF after vehicle has started, have your vehicle inspected by an authorized Kia dealer.

Power Down Warning Light

This warning light illuminates :

- when the power is limited for the safety of the electric vehicle.
  - When the high voltage battery level is below a certain threshold, the voltage is decreasing, the temperature of the motor or driving battery is too high or too low, there is a failure in the cooling system, or a failure that is disrupting normal driving.

Charging Indicator Light



This warning light illuminates :

This indicator light shows the charging status of the high voltage battery.

When it is charging, the red light turns ON. When charging is complete, the green light turns ON.

High voltage battery level warning light

This warning light illuminates :

- When the high voltage battery level is not enough.

  When the warning light turns ON, Charge the battery immediately

Regenerative Brake Warning Light

This warning light illuminates :

- The regenerative brake does not operate and the brake does not perform well. This causes the brake warning lamp (red) and regenerative brake warning lamp (yellow) to turn ON simultaneously. In this case, drive safely and have your vehicle inspected by an authorized Kia dealer.

  In this case, operation of the brake pedal may be more difficult than normal and the braking distance can increase.

ECOMINDER® indicator

Active ECO system

This indicator light illuminates:

- The Active ECO system always remembers the previous status before the vehicle was turned off.
- When the Active ECO button is pressed the ECOMINDER® indicator (green) will illuminate to show that the Active ECO is operating.

  To turn off the Active ECO system, press the button again.

For more details, refer to "Active ECO systme" in the chapter 5 or "Electric Vehicle Guide".

Responding to Vehicle Accidents in your Electric Vehicle

When a vehicle accident occurs, move the vehicle to a safe place, turn OFF the vehicle and remove the auxiliary battery (12 V) terminal to prevent high voltage electricity from flowing. Remove the auxiliary battery (12 V) terminal and turn it OFF.

⚠ WARNING - Exposed Wires & Electrical Components

Do not touch electric wires that may become exposed from inside or outside the vehicle, high voltage electric wires (orange), connectors and all electric components and devices. Doing so may result in electric shock and lead to injuries.

⚠ WARNING - Damaged battery

Do not touch harmful gas and electrolytes which may leak if the high voltage battery is damaged in an accident.

When you suspect leakage of inflammable gas and other harmful gases, open the windows and evacuate to a safe place. If any leaked fluid comes in contact with your eyes or skin, immediately clean the affected area thoroughly with tap water or saline solution and have doctors inspect it as soon as possible.

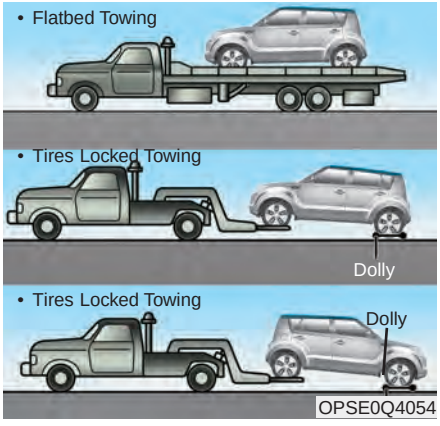
⚠ WARNING - Vehicle fires

- **If a vehicle fire occurs, use a powder extinguisher for an electric fire. If there is no powder extinguisher for the electric fire, use plenty of water to put out the fire. If you do not use enough water or use an inappropriate fire extinguisher, you might get injured due to electric shock.**
- **When a vehicle fire occurs due to the battery, there is a risk of a second fire. Contact the fire department when towing the vehicle.**

⚠ WARNING

If you cannot put out the fire immediately, the high voltage battery may explode. Evacuate to a safe place and do not let other people approach the site. Contact the fire department and notify them of an electric vehicle fire.

If the vehicle is flooded with water, immediately turn OFF the vehicle and evacuate to a safe place. Contact the fire department or an authorized Kia dealer.



If towing is required, lift all four wheels off the ground and tow the vehicle. If you must tow the vehicle using only two wheels, lift the front wheels off the ground and tow the vehicle.

⚠ CAUTION

If you tow the vehicle while the front wheels are touching the ground, the vehicle motor may generate electricity and the motor components may be damaged or a fire may occur.

Other Precautions for Electric Vehicle

- When you paint or apply heat treatment to the vehicle as a result of an accident, the performance of the high voltage battery can be reduced.

  If heat treatment is required, we recommend that you contact an authorized Kia dealer.

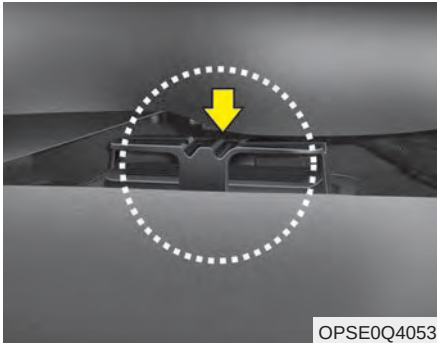
⚠ WARNING - Damaging Battery

When you clean the motor compartment, do not use high pressure water to wash. This may cause an electric shock due to a discharge in high voltage electricity, or damage the vehicle's electric system.

⚠ CAUTION - Non-genuine parts

Do not use, remodel, or install non-genuine parts.

This may damage the electric power system.



- An air inlet is installed under the front seat for cooling the driving battery. Do not block the air inlet with a foreign substance.

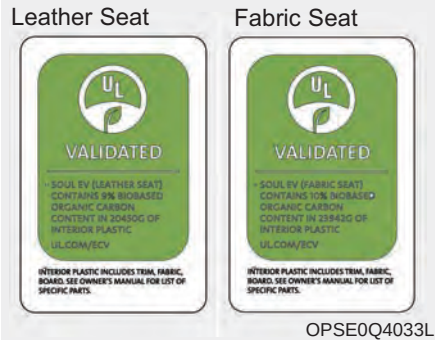
Service Plug

OPSE0Q4042

⚠ WARNING - Service plug

Do not touch the service plug installed at the rear seat footrest. The service plug is designed to block high voltage electricity when repairing the vehicle. If you are careless when handling the service plug, an electric shock may occur.

Environmental Friendliness Mark



OPSE0Q4033L

Kia Motors 'Soul Electric Vehicle' uses eco-friendly bioplastics, fiber, and board for the interior materials and has passed close inspection and validation. The plastic is validated 20,450g biomaterial where 9% is plant derived carbon (14C). (Leather Seat)

The plastic is validated 23,942g biomaterial where 10% is plant derived carbon (14C). (Fabric Seat). It has been awarded the UL Bio environmental friendliness mark for the first time in vehicle industry.

The 'Soul Electric Vehicle' not only uses eco-friendly interior materials, but it also does not emit exhaust gases, using regenerative biomass to prevent the generation of carbon dioxide (a major cause of global warming). This also helps curb the depletion of oil resources.

List of Parts with Environmental Friendliness Mark

	NO.	NO.
Bio Materials Part	1	SKIN-C/PAD MAIN
	2	PNL ASSY-DR TRIM UPR
	3	NON WOVEN - HEADLINER
	4	FLOOR CARPET
	5	FLOOR MAT
	6	FLOOR CONSOLE - MAIN, REAR
		FLOOR CONSOLE - UPPER
	7	PILLAR TRIM - FRONT
		PILLAR TRIM - REAR
		PILLAR TRIM - CENTER LWR
	8	DOOR SCUFF - FRONT
		DOOR SCUFF - REAR
	9	DOOR TRIM - FRONT LWR, REAR MAIN
	10	COWL SIDE TRIM
	11	SKIN-SUNVISOR
	12	COVERING SHELF
	13	REAR TRANVERS TRIM
	14	LUGG SIDE TRIM
	15	SEAT FABRIC

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