



KIA MOTORS



2003 Owner's Manual

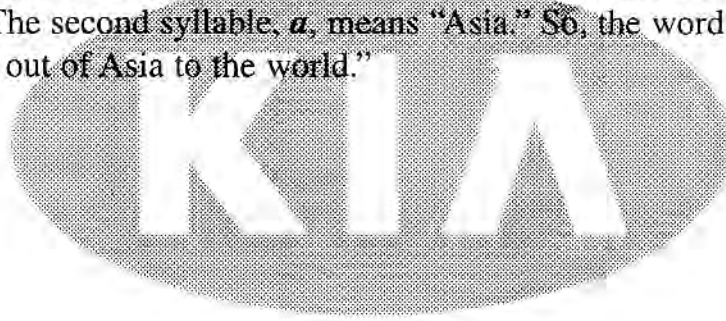
Kia, The Company

Now that you are the owner of a Kia Vehicle, you'll probably be asked a lot of questions about your vehicle and the company like "Who is Kia?", "What does 'Kia'" mean?".

Here are some answers. First, Kia is the oldest car company in Korea. It's a company that has thousands of employees focused on building high-quality vehicles at affordable prices.

The first syllable, **Ki**, in the word "Kia" means "to arise from to the world" or "to come up out of to the world." The second syllable, **a**, means "Asia." So, the word **Kia**, means "to arise from" or "to come up out of Asia to the world."

Enjoy your Vehicle!



Foreword

Thank you for choosing a Kia vehicle.

When you require service, remember that your authorized Kia dealer knows your vehicle best. Your dealer has factory-trained technicians, recommended special tools, genuine Kia replacement parts, and is dedicated to your complete 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 Consumer Information Guide and by a Warranty and Consumer Information Manual that provides important information on all warranties regarding your vehicle: New Vehicle Limited Warranty, Powertrain Limited Warranty, Limited Warranty Covering Perforation from Corrosion, and Emission Control System Warranty. If your vehicle is equipped with an audio system, you will also have a Kia Integrated Audio Systems manual explaining its operation. 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, the equipment described in this manual, along with the various illustrations, may not all be applicable to your particular vehicle. The information and specifications included in this manual were accurate at the time of printing. Kia Motors 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

CAUTION

Severe enging and transaxle damage may result from the use of poor quality fuels and lubricants that do not meet Kia specifications. You must always use high quality fuels and lubricants that meet the specifications listed on Page 7-48 in the Maintenance section of the Owner's Manual.

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INTRODUCTION

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How To Use This Manual

We want to help you get the greatest possible driving pleasure from your vehicle. Your Owner's Manual can assist you in many ways. We strongly urge you to review the entire manual. However, in order to prevent death or injuries, at the very least, you must review the WARNING and CAUTION sections spread throughout the manual, which are easily recognized by their special markings indicated below.

Illustrations complement the words in this manual to help explain the best way to enjoy your vehicle. By reading your manual, you can find out about features, important safety information, and driving under various road conditions.

The layout of the manual is provided in the Table of Contents.

Index: A good place to start is the index; it has an alphabetical listing of all information in your manual.

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

You'll find various WARNINGS, CAUTIONs, and NOTICEs in this manual. These WARNINGS, CAUTIONs and NOTICEs were prepared to enhance your personal safety and continued satisfaction with your Kia vehicle. You should carefully read and follow ALL procedures and recommendations provided in these WARNINGS, CAUTIONs and NOTICEs.

WARNING

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

CAUTION

A CAUTION indicates a situation in which personal injury, perhaps severe, could result if the caution is ignored.

NOTICE

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

Vehicle Break-In Process

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

- Do not race the engine.
- Do not maintain a single speed for long periods of time, either fast or slow. Varying engine speeds are beneficial for proper engine break-in.
- Avoid hard stops, except in emergencies, to allow the brakes to seat properly.
- Avoid full-throttle starts.

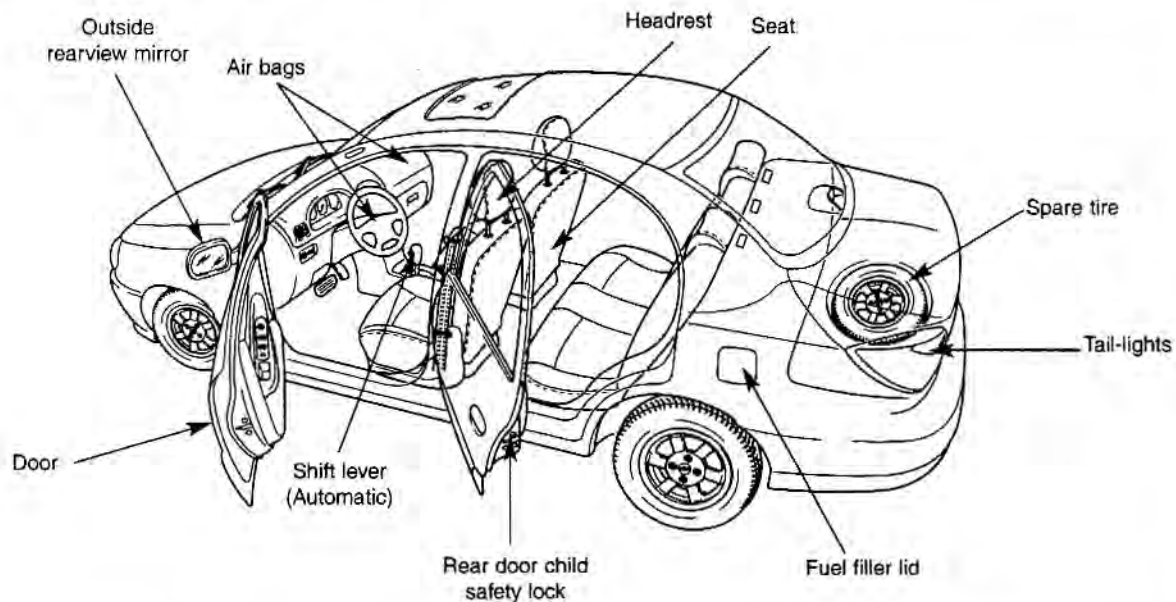
YOUR VEHICLE AT A GLANCE

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Your Vehicle At A Glance

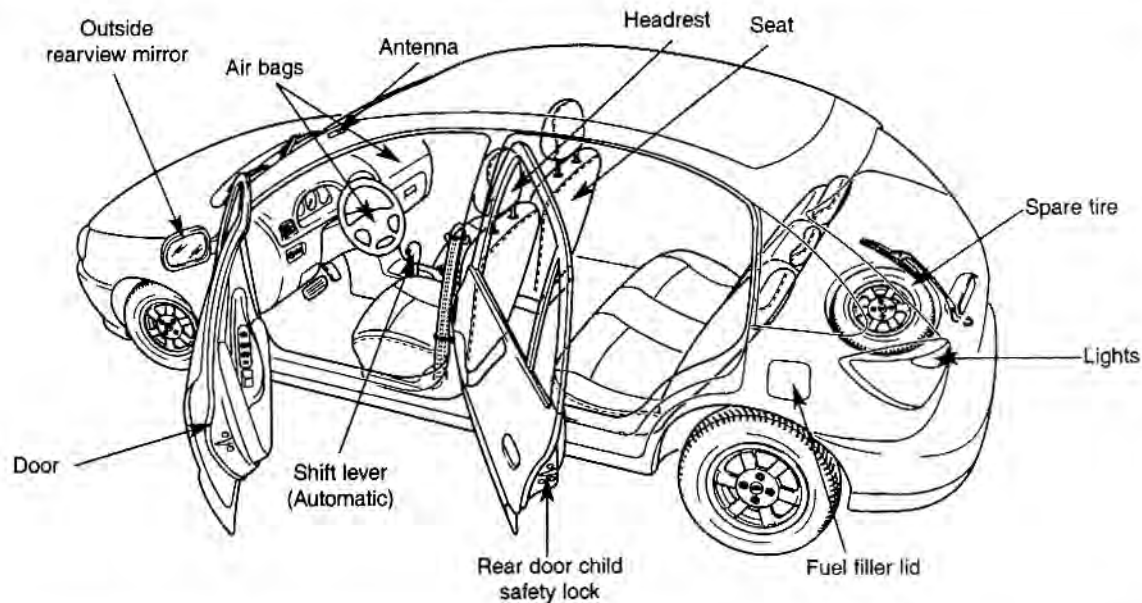
Interior and Exterior Overview

4 Door



1B3102001F

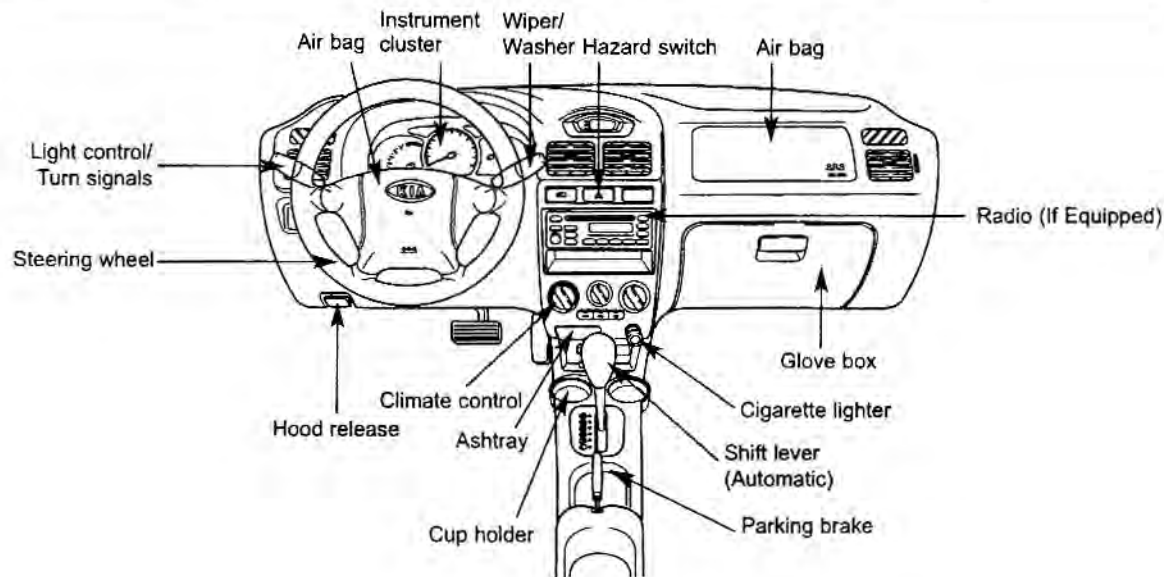
5 Door



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Your Vehicle At A Glance

Instrument Panel Overview



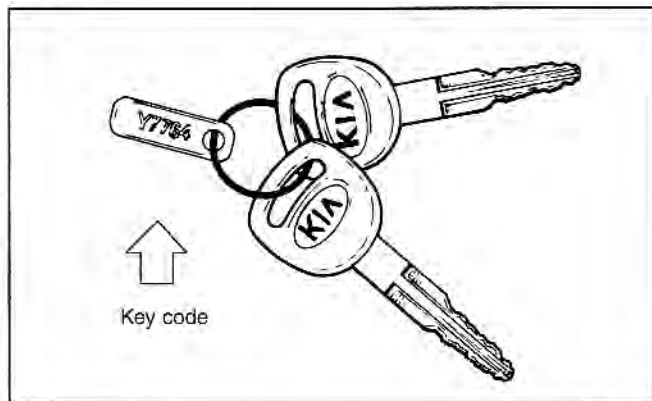
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KNOWING YOUR VEHICLE

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Knowing Your Vehicle

Keys



AN7B03001

The key code number is stamped into the plate attached to the key set. If you should lose your keys, this number will enable an Authorized Kia Dealer to duplicate the keys easily. Remove the plate and store it in a safe place. Also, record the code number and keep it in a safe and handy place, but not in the vehicle.

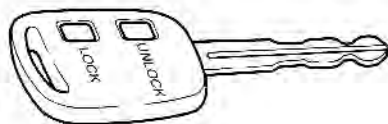
WARNING – Ignition Key

Leaving children unattended in a vehicle with the ignition key is dangerous even if the key is not in the ignition. Children copy adults and they could place the key in the ignition. The ignition key would enable children to operate power windows or other controls, or even make the vehicle move which could result in serious bodily injury or even death. Never leave the keys in your vehicle with unsupervised children.

CAUTION

Use only Kia original parts for the ignition key in your vehicle. If an aftermarket key is used, the ignition switch may not return to ON after START. If this happens, the starter will continue to operate causing damage to the starter motor and possible fire due to excessive current in the wiring.

Keyless Entry System (If Equipped)



1V2B03006B

You can also lock or unlock the door from the outside with the transmitter.

LOCK - To lock the door, depress this button.

UNLOCK - To unlock the door, depress this button.

* NOTICE

The transmitter will not work under the following conditions :

- Ignition key is in the ignition key hole.
- The battery of transmitter is discharged.

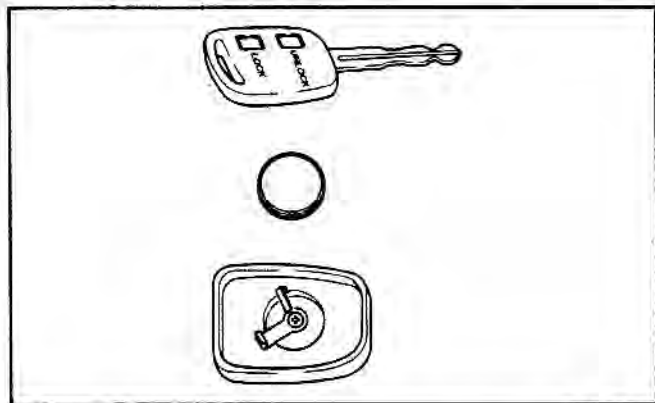
The operational distance(5m) is exceeded.

The transmitter may not operate when the weather is very cold or when there are other vehicles or objects around the vehicle. When the transmitter does not work correctly, open and close the door with the ignition key.

If you have a problem with the transmitter, contact an Authorized Kia Dealer.

Knowing Your Vehicle

Battery Replacement



1V2B03006

The transmitter uses a 3-Volt, lithium-type battery. The battery will normally last for several years. If it ever needs replacement, use the following procedure:

1. Using a screwdriver, loosen the screw on the back of the transmitter and pry the back off with a thin tool.
2. Remove the battery from the back.
3. Insert a new battery, making sure the "Plus(+)" side faces down, and reassemble the transmitter.

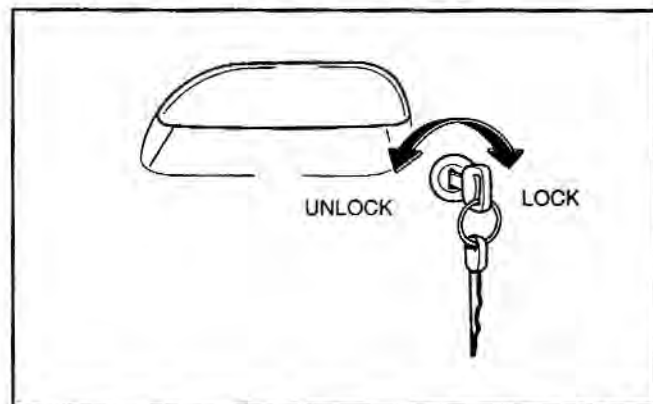
* NOTICE

Using an incorrect battery can cause the transmitter to malfunction. Make sure the replacement battery has the same specification as the battery it replaces.

Door Locks

Manual Door Locks

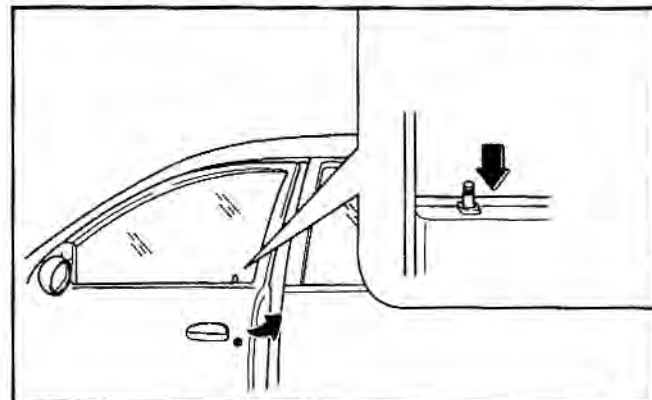
Operating Door Locks – With Key



1B3104001

- Both front doors can be locked and unlocked with the key.
- Turn the key toward front of vehicle to unlock and toward rear of vehicle to lock the door.
- Once a door is unlocked, it may be opened by lifting the door handle.

Operating Door Locks – Without Key



1B3104002B

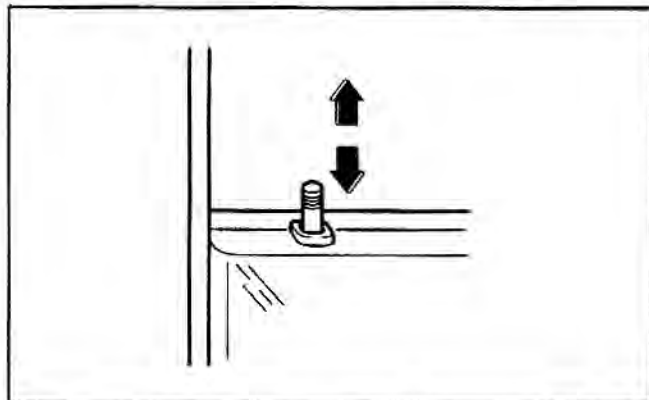
To lock any door without the key, push the inside door lock button down and close the door.

* NOTICE

Always remove the ignition key, engage the parking brake, close all windows and lock all doors when leaving your vehicle unattended.

Knowing Your Vehicle

Operating Door Locks from Inside the Vehicle



1B3104002C

- To lock a door, push the door lock button down.
- To unlock a door, pull the door lock button up.
- To open a door, pull the door handle towards the middle of your vehicle.

The door ajar warning light will illuminate if a door is not fully closed. Close the door completely and the light will go out.

Automatic Door Locks (If Equipped)

If you lock/unlock the driver's door or the passenger door with a key or the door lock knob, all the doors and rear hatch will lock/unlock automatically.

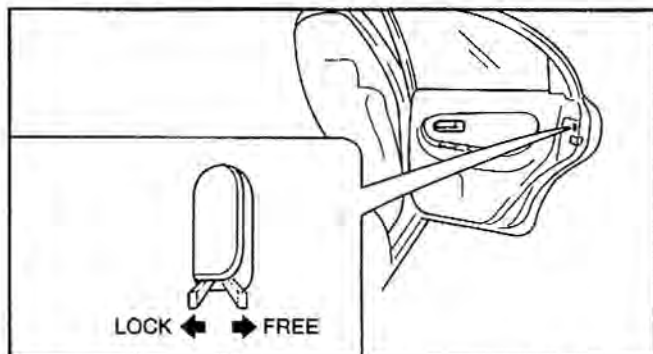
⚠ WARNING

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

CAUTION

The doors should always be fully closed and locked while the vehicle is in motion to prevent accidental opening of the doors. Locked doors will also discourage potential intruders when the vehicle stops or slows.

Rear Door Child Safety Lock



OMSA2010A

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

- To lock a rear door so that it cannot be opened from the inside, push the child safety lock located on the rear edge of the door to the "LOCK" position (toward front of vehicle) before closing the door.
- To open a rear door while the child safety lock is engaged, lift the outside door handle.

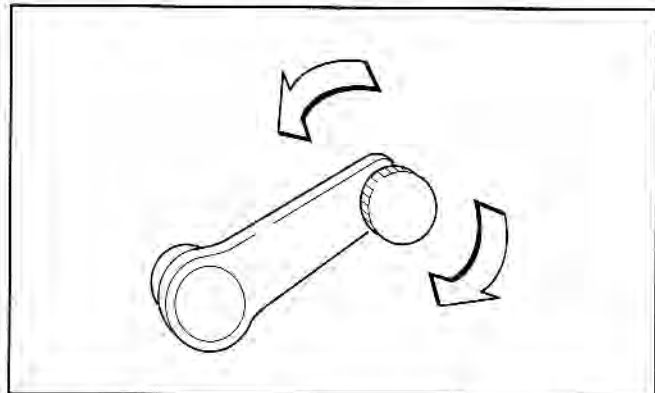
WARNING - Rear Door Locks

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

Knowing Your Vehicle

Windows

Manual Windows (If Equipped)



1S2106002

Use the window crank to open and close each window.

*** NOTICE**

If you notice buffeting and pulsation (wind shock) with either side window open, you should open the opposite window slightly to reduce the condition.

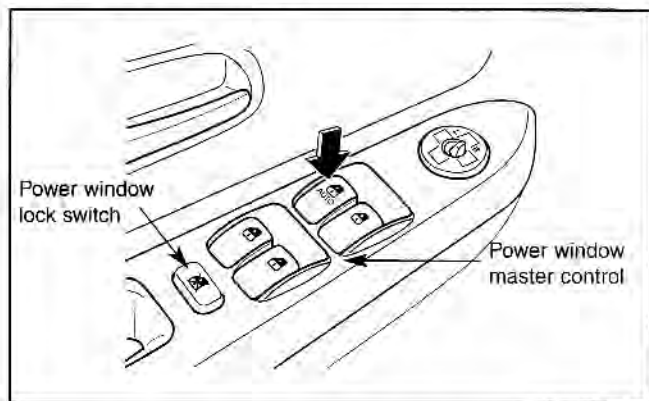
Power Windows (If Equipped)

The ignition switch must be in the ON position for power windows to operate. Each door has a power window switch that controls that door's window. However, the driver has a power window lock switch which can cancel the operation of the three passenger window switches.

*** NOTICE**

To prevent the power window fuse from malfunctioning and the power window system from being damaged, do not open or close more than two windows at the same time.

Driver's Door Power Window Controls



AS2B03008D

All windows can be opened or closed using the power window master control on the driver's door. To open a window, press down on the corresponding power window switch. To close a window, pull up on the corresponding power window switch.

Driver's Window Automatic-Down Window Switch

The driver's window has an "Automatic-Down" feature. To activate the express-down feature, momentarily depress the front of the switch to the second detent position. To cancel this feature, pull up on the front of the switch and then release it.

Driver's Power Window Switch

The driver's power window switch provides two (2) separate window-down functions.

- Depressing the driver's power window switch completely, automatically lowers (Automatic-Down) the driver's window. To cancel this function, pull up on the front of the switch and release it.
- Depressing the driver's power window switch partially (to the first detent) provides precise control of the window-down position.

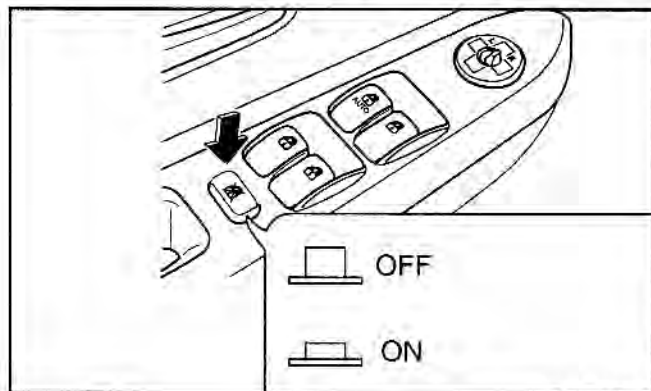
To raise/close the driver's window, pull up on the power window switch.

Power Window Timer (If Equipped)

The power windows can be operated for approximately 30 seconds after the ignition key is turned to the ACC or LOCK position.

Knowing Your Vehicle

Power Window Lock Switch Feature



1FJB2011C

The driver can disable the power window switches on all passenger doors by depressing the power window lock switch located on the driver's door to ON. When the power window lock switch is ON, only the driver's master control can operate the windows.

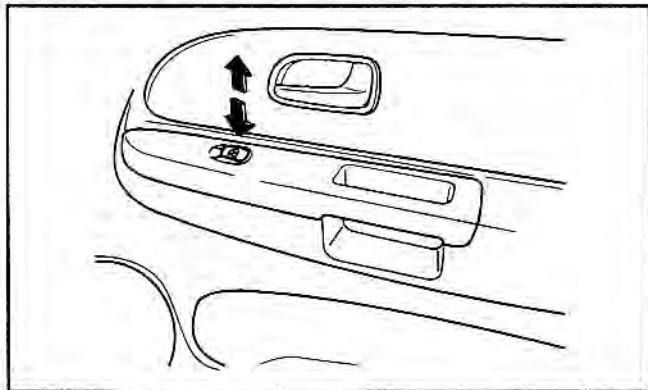
⚠ WARNING - Passengers

- Keep the power window lock switch on the driver's door in the ON (depressed) position except when someone is operating a passenger door window. Serious injury can result from unintentional window operation, especially to children.
- Always double check to make sure all arms, hands, and other obstructions are safely out of the way before closing a window.

*** NOTICE**

If you experience buffeting and pulsation (wind shock) with either side window open, you should open the opposite window slightly to reduce the condition.

Passenger Door Power Window Controls



1B3104006A

To open a window, press the front portion of the switch down. To close a window, pull the front portion of the switch up.

⚠ WARNING - Passengers

Do not allow children to play with the power windows. They may seriously injure themselves or others.

Seats

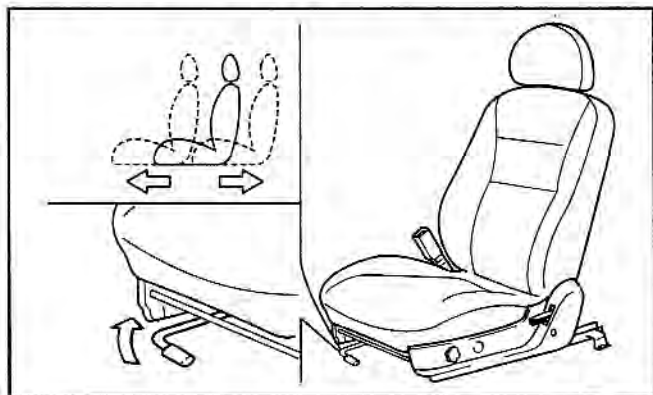
⚠ WARNING - Drivers

- Never adjust the driver's seat or seatback when the vehicle is moving. Doing so could cause loss of control, and serious personal injury or death.
- Do not allow packages or other objects to interfere with the normal position of a seat back. These objects may prevent the seat back from locking, which could result in serious injury or death in the event of a sudden stop or collision.
- Always drive and ride with your seatback upright and the lap portion of the safety belt snug and low across the hips.
- If a child is riding in the front passenger seat, they should always ride with the seatback in the fully upright position.

Knowing Your Vehicle

Front Seat Adjustment

Moving the Front Seat Forward and Backward



AS2B03011

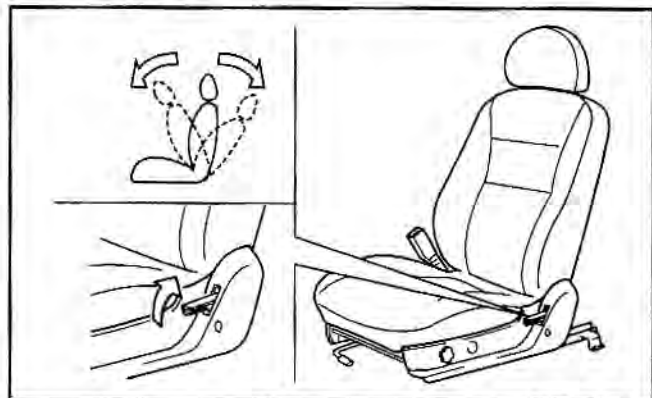
To move the seat forward or backward;

1. Pull the seat slide adjustment lever under the front edge of the seat cushion 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.

CAUTION

Do not place anything under the front seats. Loose objects might interfere with the seat slide mechanism or possibly roll out from under the seat and interfere with the operation of the brake, clutch or accelerator foot pedals.

Adjusting the Front Seatback Recliner



AS2B03012

To recline the seatback;

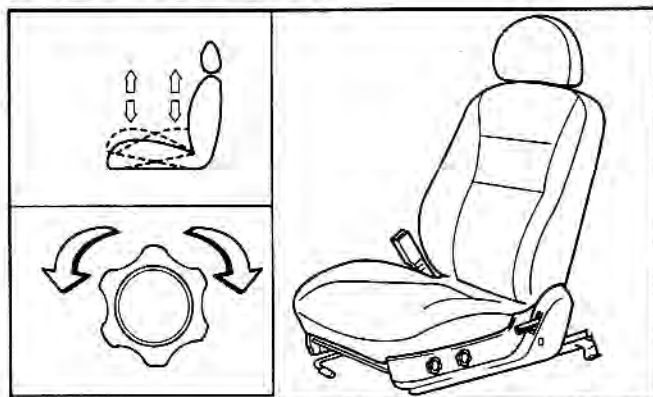
1. Lean forward slightly and lift up on the seatback recline lever located on the outside of the seat, toward the rear.
2. Lean back on the seat and adjust the back of the seat to the position you desire.
3. Release the lever and make sure the seatback is located in place. (The lever **MUST** return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

⚠ WARNING - Passengers

To reduce the risk of sliding under the lap portion of the lap/shoulder belt, and potentially suffering serious personal injury or death in the event of a collision, do not use the front seatback in a reclined position while the vehicle is in motion. If a seat is reclined, the occupant's hip could slide under or out of the lap portion of the lap/shoulder belt during a collision. If that occurs, the occupant may no longer be properly restrained, and the safety belt could apply restraint forces to the unprotected abdomen resulting in serious personal injury or death. Therefore, keep the seatbacks in a comfortably upright position whenever the vehicle is in motion.

Knowing Your Vehicle

Adjusting the Height of Driver's Seat Cushion (Driver's side-If Equipped)



AS2B04013A

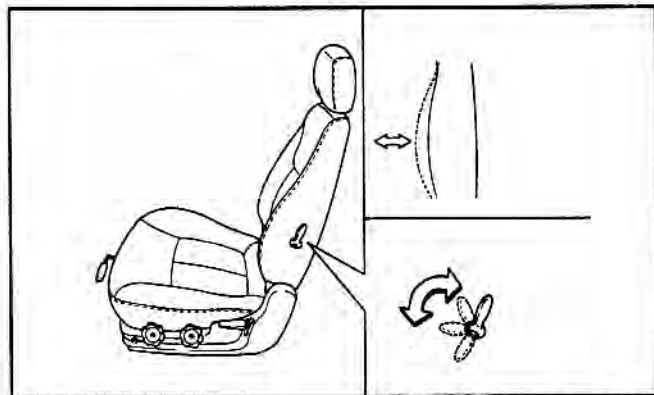
To change the height of the seat cushion, rotate the knob located on the outside of the seat cushion.

- To lower the seat cushion, rotate the knob toward the front of the vehicle.
- To raise the seat cushion, rotate the knob toward the rear of the vehicle.

⚠ WARNING

To drive properly, adjust the driver's seat and its headrest before starting. After doing so, you should adjust the day/night rearview mirror and the outside rearview mirror.

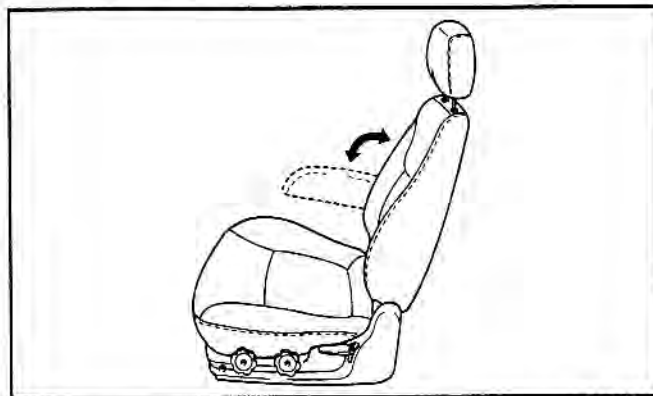
Lumbar Support (Driver's seat only)



1S4104009B

You can adjust the lumbar support by moving the lever on the side of the driver's seatback. Pivoting the lever toward the front of the vehicle increases the lumbar support. Pivoting the lever toward the rear of the vehicle decreases the lumbar support.

Armrest (If Equipped)

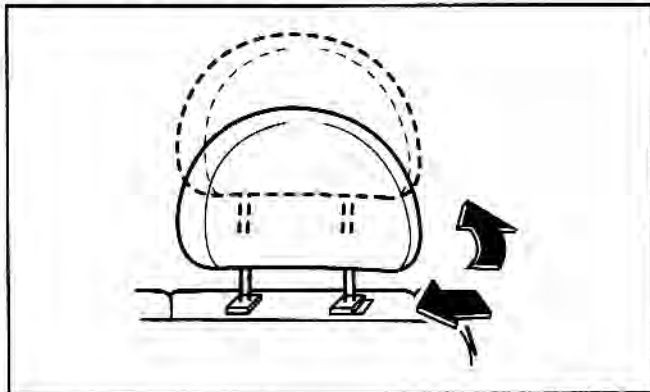


AB3104009

To use the armrest, pull it down from the side of the seatback.

Knowing Your Vehicle

Adjustable Headrest



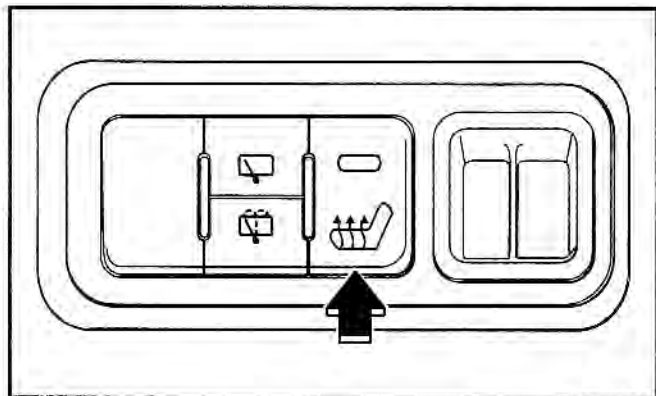
1RS104011A

To raise the headrest, simply pull it up to the desired position. To lower the headrest, press the release lever on the left side grommet, while pushing the headrest down to the desired position. To remove the headrest, raise it as far as it can go then press the release lever while pulling upward.

⚠ WARNING – Headrests

- To reduce the risk of head and neck injuries, do not operate the vehicle with the headrest removed or improperly positioned.
- Do not attempt to adjust the driver's headrest while driving.
- Adjust the top of the headrest so that it is even with the top of your ears in order to reduce the chance of injury in the event of a collision.

Heating the Driver's Seat (If Equipped)



2B3103001A

The driver's seat is electrically heated when the corresponding switch (shown above) is depressed and the vehicle ignition is ON. A thermostat regulates seat temperature when the switch is depressed. To deactivate the driver's seat heating system, depress the switch again.

Rear Seat

⚠ WARNING - Rear Seatback

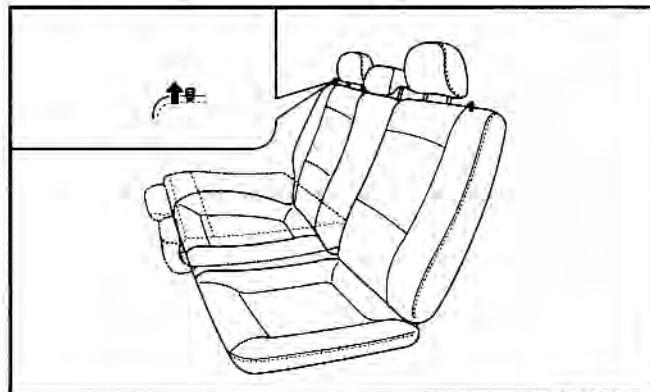
- The rear seatback must be securely latched. If not passengers and objects could be thrown forward and suffer serious injury or death in the event of a sudden stop or collision.
- Luggage and other cargo should be laid flat in the cargo area. If objects are large, heavy or must be piled, they must be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

(Continued)

(Continued)

- Passengers should not ride in the cargo area or sit or recline on folded seatbacks while vehicle is in motion.
- When resetting the seatback to the upright position, make sure it is securely latched by pushing it forward and rearward.
- To avoid the possibility of burns, do not remove the carpet in the cargo area. Emission controls beneath this floor generate high exhaust temperatures.

Split Folding Rear Seat (If Equipped)



1BC102001B

The rear seatbacks fold forward to provide additional cargo space and to provide an access to the trunk area.

- To fold the rear seatback(s) down, pull the unlock knob located in the top of the seatbacks, then fold the seatback forward and down.
- To raise the seatback, lift and push it firmly until it clicks into place.
- When you return the seatback to its original position, reposition the rear safety belts so that they can be used by rear seat passengers.

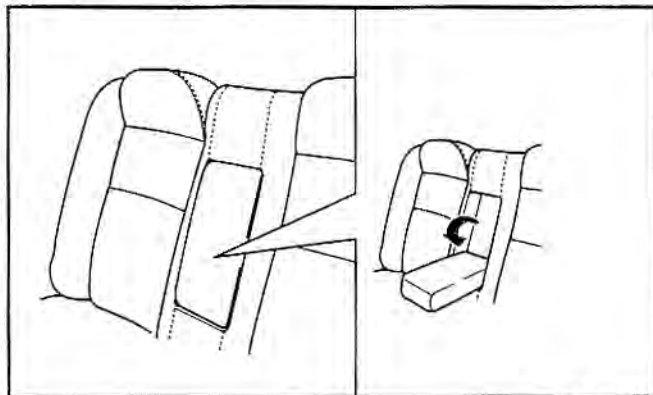
*** NOTICE**

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

⚠ WARNING -Cargo

Cargo should always be secured to prevent it from shifting and causing injury to the vehicle occupants.

Rear Seat Armrest (If Equipped)



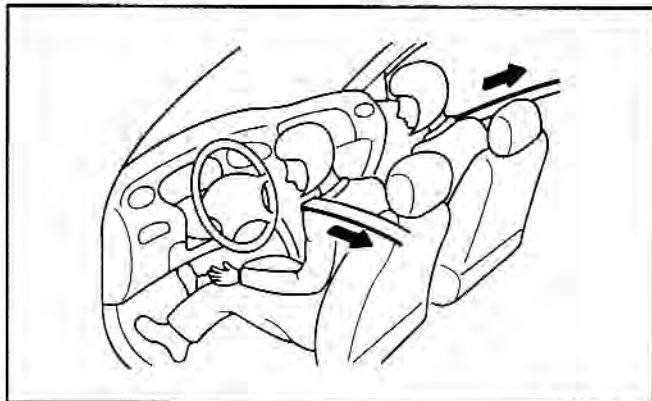
1BC102002

This armrest is located in the center of the rear seatback. To use an armrest, pull it downward from the seatback.

Knowing Your Vehicle

Safety Belts

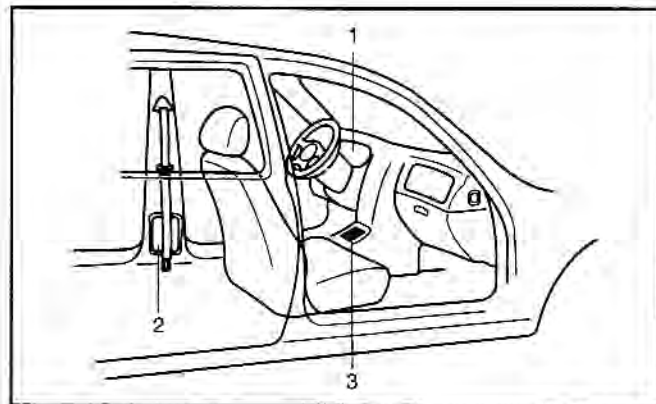
Pretensioner Seat Belt (If Equipped)



AS2B03105

Your vehicle is equipped with driver's and front passenger's pretensioner seat belts. The purpose of the pre-tensioner is to make sure that the seat belts fit tightly against the occupant's body in certain frontal collisions.

The pre-tensioner seat belts can be activated together with the airbags, where the frontal collision is severe enough.



AS2B030015C

The pre-tensioner seat belt operates in the same way as an Emergency Locking Retractor (ELR) type of seat belt. When the ignition switch is in the "ON" position and if the vehicle stops suddenly, or if the occupant tries to lean forward too quickly, the seat belt retractor will lock into position. However, in certain frontal collisions, the pretensioner will activate and pull the seat belt into tighter contact against the occupant's body. The seat belt pre-tensioner system consists mainly of the following components.

Their locations are shown in the illustration.

1. SRS airbag warning light

2. Seatbelt pre-tensioner assembly
3. SRS control module.

WARNING

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

- The seat belt must be worn correctly.
- The seat belt must be adjusted to the correct position.

NOTICE

- Both the driver's and front passenger's pre-tensioner seat belts will be activated in certain frontal collisions. The pre-tensioner seat belts can be activated, where the frontal collision is severe enough, together with the airbag. The pretensioners will be activated under these conditions even if there is no one on the seat at the time of the collision.
- When the pre-tensioner seat belts are activated, a loud noise may be heard and fine dust, which may appear to be smoke, may be visible in the passenger compartments and they are not hazardous.

(Continued)

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- Although it is harmless, the fine dust may cause skin irritation and should not be breathed for prolonged periods. Wash your hands and face thoroughly after an accident in which the pretensioner seat belts were activated.

CAUTION

- *Because the sensor that activates the SRS airbag is connected with pre-tensioner seat belt, the SRS airbag warning light  on the instrument panel will illuminate for approximately 6 seconds after the ignition key has been turned to the "ON" positions, and then it should be turned off.*
- *If the pre-tensioner seat belt is not working properly, this warning light will illuminate even if there is no malfunction of SRS airbag system. If the SRS airbag warning light does not illuminate when the ignition key is turned to "ON", or if it remains illuminated after illuminating for approximately 6 seconds, or if it illuminates while the vehicle is being driven, please have an Authorized Kia Dealer inspect the pre-tensioner seat belt or SRS airbag system as soon as possible.*

WARNING

- Pre-tensioners are designed to operate only one time. After activation, pretensioner seat belts must be replaced. All seat belts, of any type, should always be replaced after they have been worn during a collision.
- The Pre-tensioner seat belt assembly mechanisms become hot during activation. Do not touch the pretensioner seat belt assemblies for several minutes after they have been activated.
- Do not attempt to inspect or replace the pre-tensioner seat belts yourself. This must be done by an authorized Kia dealer.
- Do not strike the pre-tensioner seat belt assemblies.
- Do not attempt to service or repair the pre-tensioner seat belt system in any manner.

(Continued)

(Continued)

- Improper handling of the pre-tensioner seat belt assemblies, and failure to heed the warnings not to strike, modify, inspect, replace, service or repair the pretensioner seat belt assemblies may lead to improper operation or inadvertent activation and serious injury.

Always wear the seat belts when driving or riding in a motor vehicle.

Safety Belt Restraint System

WARNING

The driver and all passengers should always use the safety belts provided in order to minimize the risk of severe bodily injury.

We strongly recommend that the driver and all passengers be properly restrained at all times by using the safety belts provided with the vehicle. Proper use of the safety belts decreases the risk of severe injury or death in accidents or sudden stops. In most states and in Canada, the law requires their use.

Safety belts provide the best restraint when:

- the seatback is upright
- the occupant is sitting upright (not slouched)
- the lap belt portion of the safety belt is snug and low on the hips
- the shoulder belt portion of the safety belt is snug against the chest
- the knees are straight forward

To help you remember to fasten your safety belt, a warning light may come on and a chime may sound. See Safety Belt Warning on page 4-28.

All seats, except the center rear seat, have lap/shoulder belts. The center rear seat has a lap belt.

Inertial locks in the safety belt retractors allow all of the lap/shoulder safety belts to remain unlocked during normal vehicle operation. This allows the occupants some freedom of movement and increased comfort while using the safety belts. If a force is applied to the vehicle, such as a strong stop, a sharp turn, or a collision, the safety belt retractors will automatically lock the safety belts.

Since the inertial locks do not require a collision in order to lock up, you may become aware of the safety belts locking while braking or going around sharp corners.

The center rear seat safety belt does not have an inertial lock so it is always in a locked condition.

Whenever possible, use the center rear seat position to install your child restraint. The center rear seat is the best position to install your child restraint. However, if the center seat is unavailable, a child restraint may be installed in the rear outboard seats using the special auto lock mode feature provided with those safety belt.

Knowing Your Vehicle

The rear outboard safety belts have been designed to allow a child restraint to be used in these positions without an added locking clip. These safety belts normally lock only under extreme or emergency conditions (this is the emergency lock mode which uses the locking retractor). However, they can be adjusted so that they remain fixed and locked when a child restraint is placed in those positions (this auto lock mode should only be used to secure a child restraint). The driver's safety belt can only operate in the emergency lock mode.

WARNING -Twisted Safety Belts

Never drive or ride with a twisted or jammed safety belt. If you cannot untwist or unjam the safety belt, see your Kia dealer immediately.

WARNING -Safety Belt Usage

Each seating position in your vehicle has a specific safety belt assembly which includes a buckle and tongue that are designed to be used together. 1) Use the shoulder belt on the outside shoulder only. Never wear the shoulder belt under the arm. 2) Never swing the safety belt around your neck to fit over the inside shoulder. 3) Never use a single belt for more than one person.

WARNING - After a Collision

- Lap/shoulder belt assemblies may be stretched or damaged when subjected to the stress and forces of a collision.
- The entire restraint system should be inspected following any collision. All belts, retractors, anchors and hardware damaged by a collision should be replaced before the vehicle is operated again.

⚠ WARNING - Safety Belt Care

Safety belts should be inspected periodically for excessive wear or damage. Pull out each belt fully and look for excessive fraying, cuts, burns or other damage. Make sure that the lap/shoulder belts return smoothly and easily into the retractor. Check the latches to make sure they latch and release without interference or delay. Any belt not in good condition or in good working order should be promptly replaced.

⚡ CAUTION - Damage to Safety Belts

Never close the doors on any part of the lap or shoulder belt. It can damage the safety belt or buckle which could increase the risk of injury in case of an accident.

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 SNUGLY AND AS LOW AS POSSIBLE.

⚠ WARNING - Pregnant Women

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

Knowing Your Vehicle

Restraint of Infants and Small Children

Small children and infants should be restrained by an approved child restraint system to help protect them while riding in a vehicle.

Never allow a child to stand or kneel on the seat of a moving vehicle. Never allow a safety belt to be placed around both a child and an adult or around two children at the same time.

WARNING - Children on Laps

Never hold a child on your lap or in your arms in a moving vehicle. Even a very strong person cannot hold onto a child in the event of even a minor collision.

Many companies manufacture child restraint systems (often called child seats) for infants and small children. An acceptable child restraint system must always satisfy Canadian Motor Vehicle Safety Standards.

Make sure that any child restraint system you use in your vehicle is labeled as complying with those safety standards.

The child restraint system should be chosen to fit both the size of the child and the size of the vehicle seat. Be sure to follow any instructions provided by the child restraint system manufacturer when installing the child restraint system.

CAUTION - Hot Metal Parts

Safety belts and seats can become hot in a vehicle that has been closed during warm/hot weather; they could burn a child. Check seat covers and buckles before you place a child anywhere near them.

Restraint of Large Children

As children grow, they may need to use new child restraint systems, including larger child seats or booster seats, which are appropriate for their increased size.

A child who has outgrown available child restraint systems should use the belts provided in the vehicle.

When seated in the rear outboard seats, the child should be restrained by the lap/shoulder belt.

If the shoulder belt portion touches the child's neck or face, you can use some after-market devices made by independent manufacturers which help pull the shoulder belt down and away from the child's face or neck.

⚠ WARNING - Shoulder Belts on Small Children

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

⚠ WARNING - Child Restraints

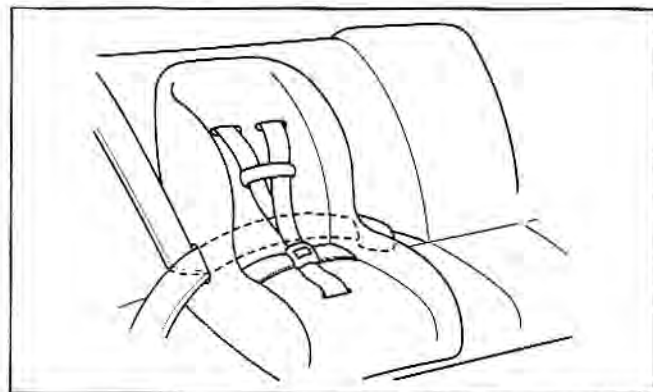
- Children will be endangered in a crash if their child restraint systems are not properly secured by the safety belts in the vehicle.
- According to accident statistics, children are safer when properly restrained in the rear seating positions rather than the front seating positions.
- When a child restraint system is not secured by a safety belt, store it in the trunk so that it will not be thrown forward in the event of a sudden stop or accident.

Placement of a Child Restraint System

We recommend that, whenever possible, you put the child restraint system in the center position of the rear seat and secure it to the vehicle with the lap belt.

If the center rear seat is not available, or you are using more than one child restraint system in the vehicle at the same time, the rear outboard safety belts have been designed to allow a child restraint system to be used in these positions. Since those seats normally lock only under extreme or emergency conditions (emergency lock mode) you must manually adjust those belts to the auto lock mode.

Installing a Child Restraint System in the Rear Outboard Seats



2MS103005

** WARNING - Restraint Instructions**

Failure to observe this manual's instructions regarding child restraint systems and the instructions provided with the child restraint system could increase the chance and/or severity of injury in an accident.

For safety reasons, we recommend that the child restraint system be used in the center rear seat. If the center rear seat is unavailable, a child restraint may be installed in the rear outboard seats.

Since all three of these safety belts move freely under normal conditions and only lock under extreme or emergency conditions (emergency lock mode) you must manually adjust these belts to the auto lock mode (if equipped) to secure a child restraint.

The driver's safety belt incorporates the emergency lock mode only.

WARNING - Child Restraint Placement

NEVER use a child restraint in the front passenger seat. A child in a child restraint installed in the front passenger seat can be severely or fatally injured by an air bag which could impact the child restraint with great force when the air bag inflates.

Placing a Passenger Safety Belt into the “Auto Lock” Mode (If Equipped)

The use of the auto lock mode will ensure that the normal movement of the child in the vehicle does not cause the safety belt to be pulled out and loosen the firmness of its hold on the child restraint.

To secure a child restraint in the front passenger seat or rear outboard seats, follow the procedure below.

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 belt webbing is not twisted.



AS2B03017

2. Insert 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.



AN7B03026

3. Grasp the shoulder portion of the belt and pull downward until the entire belt is extracted. When the belt is fully extracted, the retractor changes to the automatic locking mode (child restraint mode).



AN7B03027



AN7B03028

4. Slowly allow the belt to retract. Pull up on the shoulder webbing. A “clicking” or “ratcheting” sound will be heard as the belt retracts. This indicates the retractor is now in the automatic locking mode. Push down on the child restraint while you pull up on the belt in order to remove any slack in the belt.

5. Before placing the child in the child restraint, forcibly try to push the seat from side to side and forward to make sure that the seat is securely held in place.
6. Double check that the retractor is in the automatic locking mode by trying to pull the shoulder portion of the safety belt out of the retractor. If you cannot pull the belt out of the retractor, it is in the automatic locking mode. If you can, repeat step 4.

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 safety belt to retract fully.

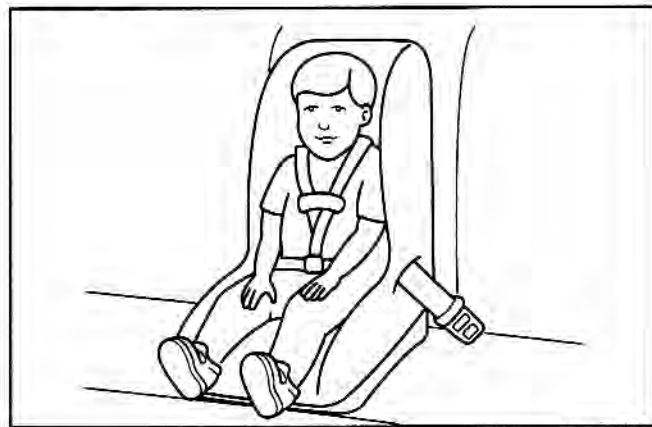
⚠ WARNING - Auto Lock Mode

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

If the safety belt is not placed in the “auto lock” mode, severe injury or death could occur to the child and/or other occupants in the vehicle in a collision, since the child seat will not be effectively held in place.

To return the safety belt retractor to the emergency lock mode, allow the seat belt to retract fully to its stowed position. The retractor will then automatically switch back to the emergency lock mode for normal adult usage.

Installing a Child Restraint in the Rear Center Seat (If Equipped)



2MS103006

To install a child restraint in the rear center seat, do the following:

1. Place the child restraint in the desired position. Route the lap belt through the restraint according to the seat manufacturer's instructions.
2. Insert the tongue plate into the buckle until an audible “click” is heard, indicating the belt is locked in the buckle.
3. Adjust the lap safety belt for a snug hold on the child restraint by pulling on the loose end of the belt.

Knowing Your Vehicle

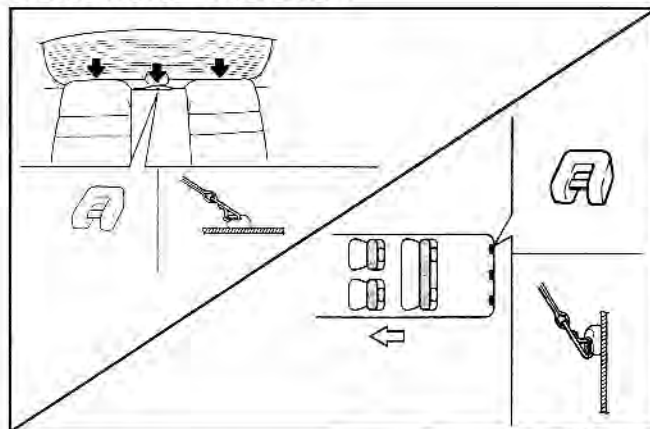
Child Seat Anchorage Position

For small children and babies, the use of a child seat or infant seat is strongly recommended. This child seat or infant seat should be of appropriate size for the child and should be installed in accordance with the manufacturer's instructions. It is further recommended that the seat be placed in the vehicle's rear seat since this can make an important contribution to safety. Your vehicle is provided with three child restraint hook holders on the package tray behind the rear seat for installing the child seat or infant seat.

⚠ WARNING - Child Restraint Placement

Never use a child restraint in the front passenger seat. A child in a child restraint installed in the front passenger seat can be severely or fatally injured by an air bag which could impact the child restraint with great force when the air bag inflates.

Tether Anchor Installation



2FDA304/2FDA305

Your vehicle is equipped with an anchor for securing the tether strap of a child restraint system (child seat). The child restraint anchor fittings are installed on the shelf behind the rear seat or in the trunk on the inboard side of the rear bumper in the 5-door hatchback.

⚠ WARNING

If the tether strap is clipped incorrectly, the child restraint seat may not be restrained properly in the event of a collision.

Installing a child restraint seat ;

1. Position the child restraint seat on the rear passenger seat cushion.
2. Route the child restraint seat tether strap over the back of the seat.

For vehicles with adjustable head restraints, route the tether strap under the head restraint and between the head restraint posts, otherwise route the tether strap over the top of the seatback.

3. Locate the correct anchor on the package tray behind the rear seat for the selected seating position.
4. Open the tether anchor cover.
5. Clip the tether strap hook to the tether strap hook holder.
6. Tighten the tether strap to secure the seat.

WARNING - Child Restraint

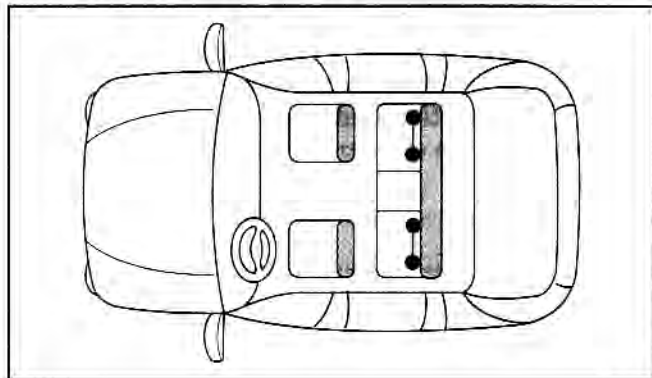
Check that the child restraint system is secure by pushing and pulling it in different directions. Incorrectly fitted child restraints may swing, twist, tip or come away causing death or injury.

WARNING - Child Restraint Anchorage

- **Child restraint anchorages are designed to withstand only those loads imposed by correctly fitted child restraints. Under no circumstances are they to be used for adult seat belts or harnesses or for attaching other items or equipment to the vehicle.**
- **The tether strap may not work properly if attached somewhere other than the correct tether anchor.**

Knowing Your Vehicle

Child Seat Lower Anchors



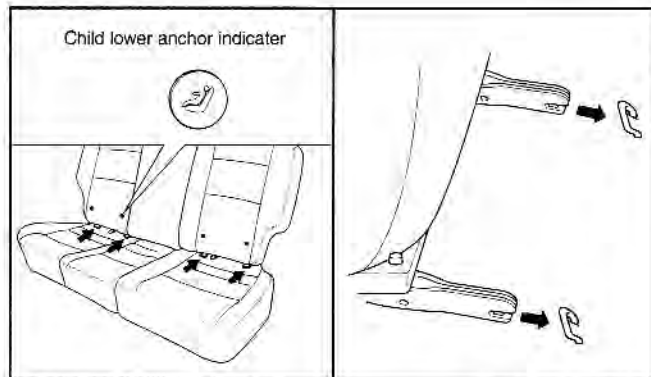
S2D300

The lower anchors are located between rear seat cushion and seatback.

⚠ WARNING

If the child restraint is not anchored properly, the risk of a child being seriously injured or killed in a collision greatly increases.

Always follow the installation and use instructions provided by the manufacturer of the child restraint.



2FDA303/BGQ03102

There is a symbol located on the lower portion of each side of the rear seatbacks. These symbols indicate the position of the lower anchors for child restraints so equipped.

To attach the child seat to the lower anchor, insert the child seat latch into the lower anchor hold. Listen for the audible "Click" sound.

⚠ WARNING

Do not install a child restraint seat at the rear center seating position using the vehicle's ISOFIX anchors. The ISOFIX anchors are only provided for the left and right outboard rear seating positions.

Safety Belt Warning Light and Chime

If the driver's lap/shoulder belt is not fastened when the key is turned ON, the safety belt warning chime sounds for approximately six seconds and the safety belt warning light illuminates for approximately six seconds.

Safety belt warning light



AN7B03016

Front Lap/Shoulder Belt



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To fasten the front lap/shoulder belt:

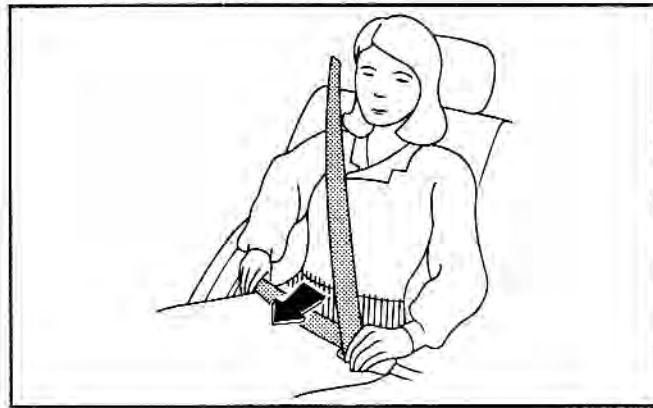
1. Grasp the buckle and tongue plate.
2. Slowly pull the lap/shoulder belt out from the retractor.

Knowing Your Vehicle



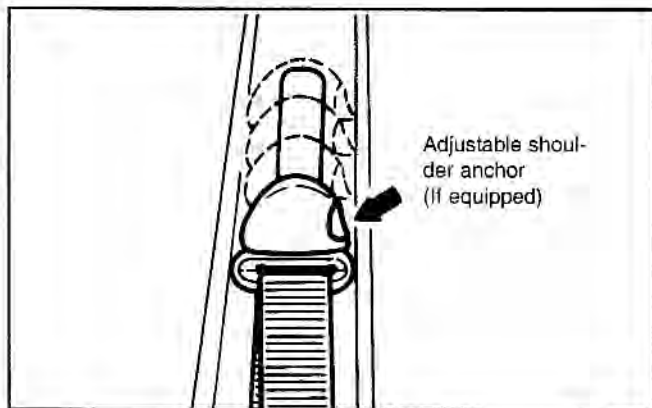
2BLA372A

3. Insert the tongue plate into the open end of the buckle until an audible “click” is heard, indicating the belt is locked in the buckle.



1GQA2086A

4. Position the lap portion of the belt across your lap as **LOW ON THE HIPS** as possible to reduce the risk of sliding under it during an accident. Adjust the belt to a **SNUG FIT** by pulling up on the shoulder portion of the safety belt. The belt retractor applies tension to the belt in order to take up excess webbing automatically and to maintain tension on the belt. For maximum safety, do not put any excess slack into the safety belt.



136-07010

5. Adjust the shoulder anchor position to your size. To raise the anchor position, pull the knob and push the anchor up. To lower the anchor position, pull the knob and slide the anchor down. After adjustment, make sure the anchor is locked in position.

▲ WARNING - Front Safety Belts

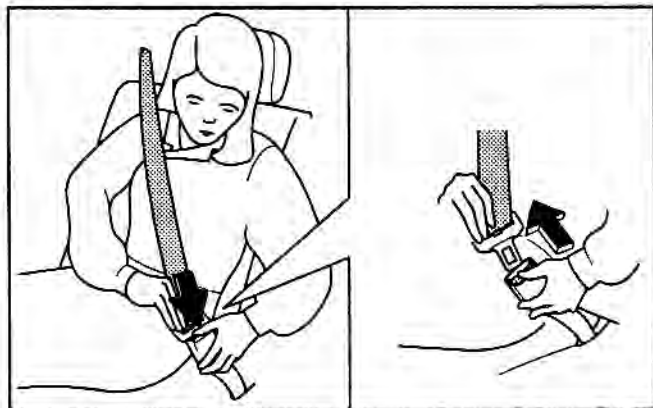
- The front seatbacks should always remain in a comfortable, upright position while the vehicle is in motion. The safety belt system will provide the most protection with the seatbacks in an upright position.
- Never wear the shoulder portion of the safety belt under the outside arm or behind the back.
- Never wear the shoulder portion of the safety belt across the neck or face.
- Wear the lap portion of the safety belt as low on the hips as possible. Be sure the lap belt fits snugly around the hips. Never wear the lap belt over your waist.
- Never drive or ride with a twisted or jammed safety belt. If you cannot untwist or unjam the safety belt, see the nearest Kia dealer immediately.
- Never use a single belt to restrain more than one person at a time.

Failure to follow these warnings will increase the risk and severity of injury in an accident.

Knowing Your Vehicle

To Unfasten the Front Lap/Shoulder Belt:

Press the release button on the buckle.



1GQA2088A

Rear Safety Belts

Two kinds of safety belts are provided:

- Lap/shoulder belts for people who sit on the outboard sides of the vehicle.
- A lap belt for people who sit in the center of the rear seat.

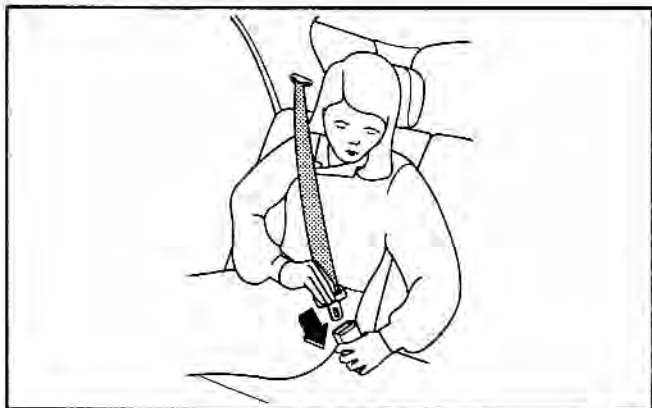
Rear Lap/Shoulder Belt (Outboard Seats)

To Fasten:



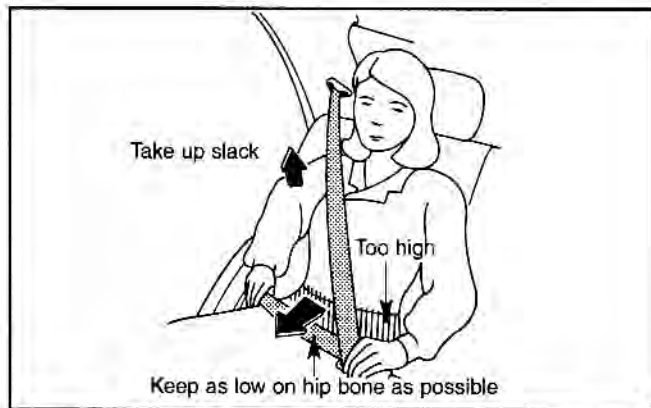
2BLA371

1. Grasp the buckle with one hand and the tongue plate with the other.
2. Slowly pull the lap/shoulder belt out.



2BLA372

3. Insert the tongue plate into the open end of the buckle until an audible “click” is heard, indicating the belt is locked.

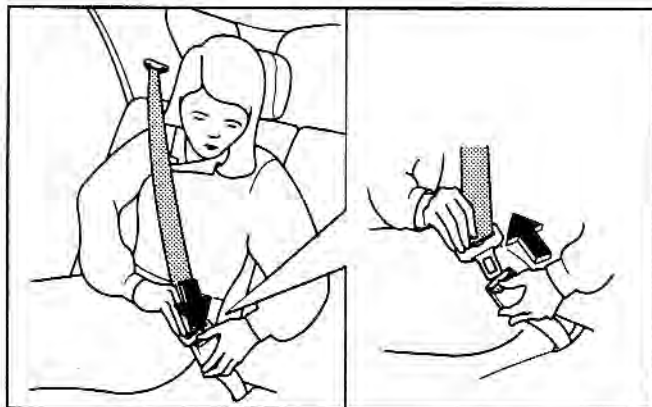


2BLA373

4. Position the lap portion of the belt across your lap as **LOW ON THE HIPS** as possible to reduce the risk of sliding under it during an accident. Adjust the belt to a **SNUG FIT** by pulling up on the shoulder portion of the safety belt. The belt retractor is designed to take up excess webbing automatically and to maintain tension on the belt. This is for your safety. Do not put excess slack into the safety belt.

Knowing Your Vehicle

To Unfasten:



2BLA374

Press the release button on the buckle.

⚠ WARNING - Rear Lap/Shoulder Safety Belts

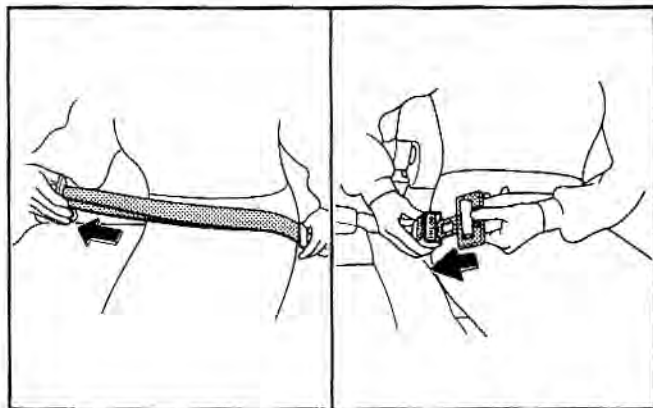
- Never wear the shoulder portion of the safety belt under the outside arm or behind the back.
- Never wear the shoulder portion of the safety belt across the neck or face.
- Wear the lap belt or the lap portion of the belt as low as possible. Be sure the lap belt fits snugly around the hips. Never wear the lap belt over your waist.
- Never ride or drive with a twisted or jammed safety belt. If you cannot untwist or unjam the safety belt, see the nearest Kia dealer immediately.
- Never use a single belt to restrain more than one person at a time.

Failure to follow these warnings could increase the chance and severity of injury in an accident.

Lap Belt Only (Rear Center Seat)

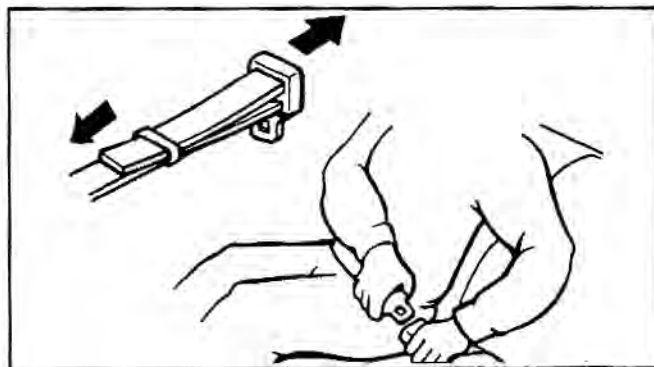
To Fasten the Rear Lap Belt:

1. Grasp the buckle end and pull it low over the abdomen. Insert the tongue plate into the open end of the buckle until an audible "click" is heard, indicating the latch is locked. Make sure the belt is not twisted.



2BLA376/2BLA377

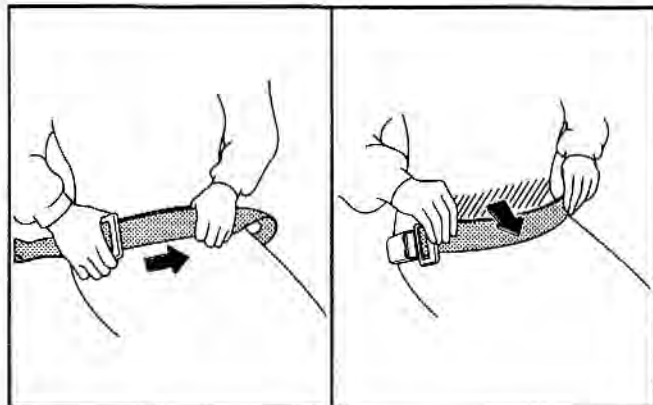
2. To lengthen the belt, hold the latch plate tongue at a right angle to the safety belt webbing and pull.
3. To shorten the belt, hold the latch plate tongue at a right angle to the safety belt webbing and pull on the loose end of the belt until the desired belt length is reached.



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Knowing Your Vehicle

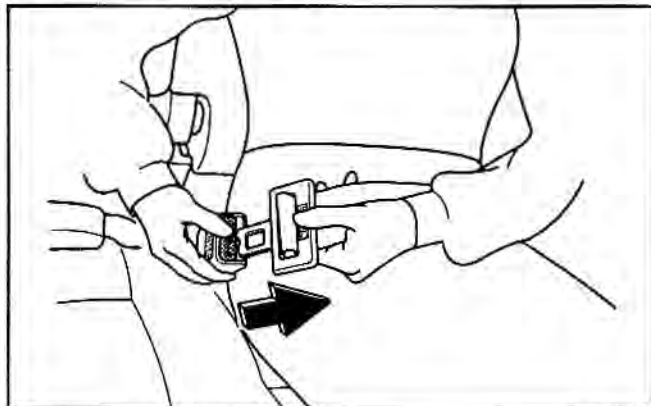
4. Grasp the free portion of the belt webbing and pull until the belt is snug over the hips and as low on the abdomen as possible.



2BLA376/2BLA379

5. Make sure that the belt is placed as **LOW ON THE HIPS** as possible.

To Unfasten the Rear Lap Belt:



2BLA375A

Press the release button on buckle.

WARNING - Center Rear Lap Belt

Be sure the center rear lap belt is positioned snugly around the hips, and not on the waist. Failure to position the center rear lap belt snugly around the hips and not on the waist will increase the chance and severity of injury in the event of a collision.

Proper Use and Care of the Safety Belt System

To ensure that the safety belts provide the maximum protection, please follow these instructions:

- Use the belts at all times - even on short trips.
- If the safety belt is twisted, straighten it prior to use.
- Keep sharp edges and damaging objects away from the belts.
- Periodically inspect belt webbing, anchors, buckles, and all other parts for signs of wear and damage. Replace damaged, excessively worn or questionable parts immediately.

- To clean the belt webbing, use any mild soap solution recommended for cleaning upholstery or carpets. Follow the instructions provided with the soap. Do not bleach or dye the webbing because this may weaken the webbing fibers and allow them to fail when loaded in a collision.
- Do not make modifications or additions to the safety belt.
- After wearing a safety belt, make sure it fully retracts to the stowed position. Do not allow the belt to get caught in the door when you close it.

Knowing Your Vehicle

Air Bag – Supplemental Restraint System

What Your Air Bag System Does

Your vehicle is equipped with a dual Supplemental Restraint System (SRS), which includes an air bag for the driver (standard) and another air bag for the front passenger (optional).

What Your Air Bag System Does Not Do

The air bag system is designed to supplement or add to the protection provided to properly belted occupants in moderate to severe frontal collisions. It is not a substitute for the driver's or front passenger's safety belt and it does not provide restraint to the lower body.

Why Didn't My Air Bag Go Off in a Collision?

There are many types of accidents in which the air bag would not be expected to provide additional protection. These include side or rear impacts, rollovers, and second or third impacts in multiple-impact accidents as well as low speed impacts.

Remember: air bags are only designed to inflate when the impact would throw the occupant into the air bags – generally from a little to the left to a little to the right of straight ahead.

In other words, just because your vehicle is damaged and even if it is totally unusable, don't be surprised that the air bag(s) did not inflate.

The Importance of Using Safety Belts

There are four very important reasons to use safety belts even with an air bag system, they:

- Help keep you in the proper position (away from the air bag) when it inflates.
- Reduce the risk of harm in rollover, side or rear impact collisions, because an air bag is not designed to inflate in such situations.
- Reduce the risk of harm in frontal collisions that are not severe enough to activate the supplemental restraint system.
- Reduce the risk of being thrown from your vehicle.

WARNING - Air Bags & Safety Belts

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.

(Continued)

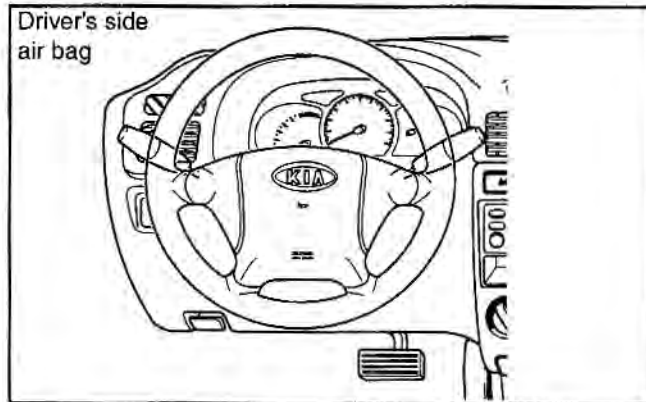
(Continued)

- Always wear your safety belt. It can help keep you away from the air bags during heavy braking just before a collision.
- Air bags are designed to inflate only in severe frontal collisions and will generally not provide protection in side or rear impacts, rollovers or less severe frontal collisions. They will also not provide protection from later impacts in a multi-impact collision.
- If your vehicle has been subjected to flood conditions (e.g. soaked carpeting/standing water on the floor of the vehicle, etc.) or if your vehicle has become flood damaged in any way, do not attempt to start the vehicle or put the key in the ignition before disconnecting the battery. This may cause air bag deployment, which could result in serious personal injury or death. Have the vehicle towed to an authorized Kia dealer for inspection and necessary repairs.

Air Bag System Components

The main components of your vehicle's SRS are:

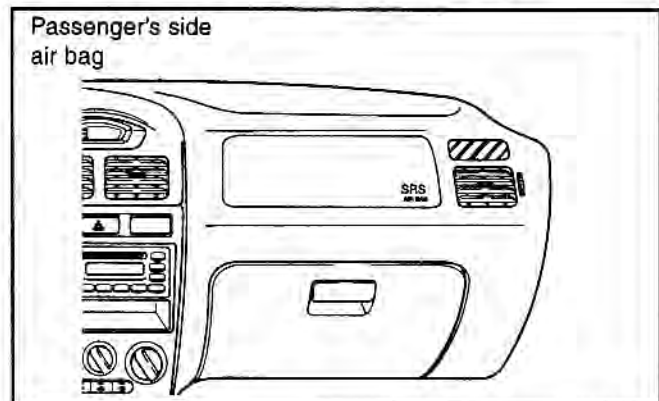
- One air bag in the steering wheel for the driver, and another in the dashboard for the front passenger.
- A diagnostic system that continually monitors system operation.
- An indicator light to warn you of a possible problem with the system.
- Emergency power backup in case your car's electrical system is disconnected in a crash.



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Knowing Your Vehicle

To indicate that your vehicle is equipped with air bags, the air bag covers on the steering wheel and on the dashboard are marked with "SRS AIR BAG."



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How the Air Bag System (SRS) Works

The driver's air bag is stored in the center of the steering wheel. The passenger side air bag is stored in the front instrument panel above the glove box.

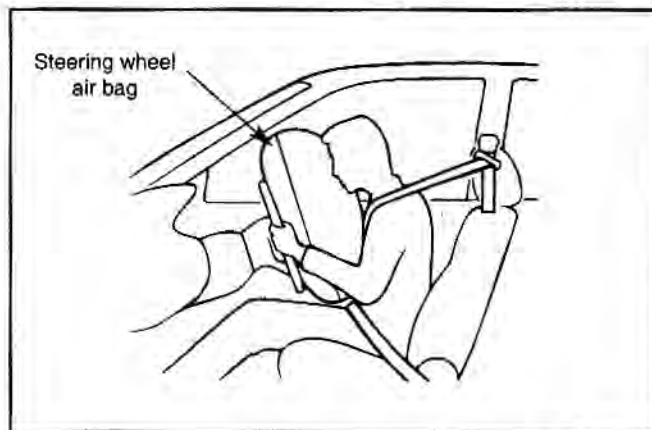
If you ever have a severe frontal collision, your air bags will instantly inflate to help protect you from serious physical injury.

There is no single vehicle speed at which the air bags will inflate. Generally, air bags are designed to inflate in severe frontal collisions. The air bag Supplemental Restraint System (SRS) reacts to the severity of a collision and its direction. These two factors determine whether the sensors send out an electronic deployment or inflation signal. Whether the air bags will inflate depends on a number of factors including vehicle speed, angle of impact and the density and stiffness of the vehicles or objects that your vehicle hits in the collision.

The air bags will completely inflate and deflate in less than 1/10 of one second. The speed of inflation and deflation protects the driver's ability to operate the vehicle. This is important in crashes where a vehicle continues to move after an impact and the driver still has some control of the vehicle's steering, braking, throttle and/or transmission systems.

It is virtually impossible for you to see the air bags inflate during an accident. It is much more likely that you will simply see the deflated air bags hanging out of their storage compartments after the collision.

In order to help provide protection in a severe collision, the air bags must inflate rapidly. However, that speed also causes the air bags to expand with a great deal of force. The speed of this inflation has been determined by the Canadian Motor Vehicle Safety Standards (CMVSS) to reduce the likelihood of serious or life-threatening injuries and is thus a mandatory part of air bag design.



1S2104009

Thus, air bag inflation could also cause injuries which normally can include facial abrasions, bruises and broken bones. **However, there are even circumstances under which contact with the steering wheel air bag can cause fatal injuries, especially if the occupant is positioned excessively close to the steering wheel.**

YOU MUST ALWAYS SIT AS FAR BACK FROM THE STEERING WHEEL AIR BAG AS POSSIBLE, WHILE STILL MAINTAINING A COMFORTABLE SEATING POSITION FOR GOOD VEHICLE CONTROL, IN ORDER TO REDUCE THE RISK OF INJURY OR DEATH IN A COLLISION.

WARNING - Air Bag Injuries

- Sit as far back from the steering wheel as possible without interfering with your control of the vehicle. Positioning yourself too close to the steering wheel can result in serious or even fatal injuries if the air bag deploys.
- Never place objects over the air bag storage compartments or between the air bags and yourself. Due to the speed and force of the air bag inflation, such objects could hit your body at high speed and cause severe bodily injury and even death.

Noise and Smoke

When the air bags inflate, they make a loud noise and they leave smoke and powder in the air inside of the vehicle. This is normal and is a result of the ignition of the air bag inflator.

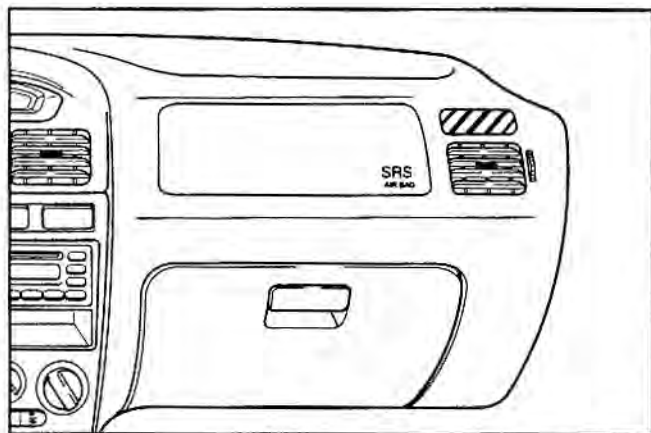
After the air bags inflate, you may feel substantial discomfort in breathing due both to the contact by your chest with both the safety belt and the air bag, as well as from breathing the smoke and powder.

We strongly urge you to open your doors and/or windows as promptly as possible after impact in order to reduce discomfort and prevent prolonged exposure to the smoke and powder.

WARNING - Hot Metal Parts

When the air bags deploy, the air bag inflators in the steering wheel and/or in the dashboard are very hot. To prevent injury, do not touch the air bag storage area's internal components immediately after an air bag has inflated.

The Importance of The Passenger Being Properly Seated



1B3102002E

The front seat passenger's air bag is much larger than the driver's air bag and inflates with considerably more force. It can seriously hurt or kill a passenger who is not in the proper position and wearing the safety belt properly. The front passenger should always move their seat as far back as practical and sit well back in the seat. It is essential that the front passenger always wears his/her safety belt, even when travelling in a parking lot or along a driveway into a garage.

The reason for this is that in most frontal impacts there is substantial pre-impact braking which tends to throw the occupants forward. If the right front passenger is not using their safety belt, they will be directly in front of or even touching the air bag storage compartment when inflation occurs. In that situation, death or severe injury is possible.

⚠ WARNING -Right Front Seat

Pre-impact braking could throw an unbelted passenger toward or onto the air bag storage compartment. Upon impact in a collision, the air bag would rapidly inflate and possibly severely injure or kill that occupant who failed to wear their safety belt.

Because of the air bag, you must NEVER INSTALL A CHILD RESTRAINT SYSTEM IN THE FRONT PASSENGER SEAT. There is a very significant risk of serious or fatal injuries to a child in a child restraint if the right front passenger air bag inflates.

⚠ WARNING - Front Passengers

- **NEVER** use a child restraint in the front seat. There is a very significant risk of serious or fatal injuries to a child in a child restraint if the right front passenger air bag inflates.
- In the front seat, a rear-facing child restraint would be positioned too close to where the air bags are stored and in the event an air bag deploys, the air bag would impact the rear-facing child restraint and cause serious injuries or death.
- Failure to observe the instructions provided with the child restraint system could increase the risk and/or severity of injury in an accident.

Air Bag Warning Light

The purpose of the air bag warning light in your instrument panel is to alert you of a potential problem with your Air Bag – Supplemental Restraint System (SRS).

Have the system checked if:

- The light does not illuminate when you turn the ignition ON.
- The light stays ON after the engine starts.
- The light comes ON or flashes while you are driving.

AIR BAG WARNING LIGHT



A-BAG-W

Supplemental Restraint System Service

Your Supplemental Restraint System is virtually maintenance-free. There are no parts which you can service.

You must have the system serviced under the following circumstances:

- If an air bag ever inflates, the air bag must be replaced. Do not try to remove or discard the air bag by yourself. This must be done by an authorized Kia dealer.
- If the air bag warning indicator light alerts you of a problem, have the air bag system checked as soon as possible. Otherwise, your air bag might not inflate when you need it.

WARNING -SRS Modifications

- **Do not modify your steering wheel or any other part of the Supplemental Restraint System. Modification could make the system ineffective.**
- **Do not work on the system's components or wiring. This could cause the air bags to inflate inadvertently, possibly seriously injuring someone. Working on the system could also disable the system so that the air bags did not deploy in a collision.**

Knowing Your Vehicle

Air Bag Warning Label (sunvisor - front side)

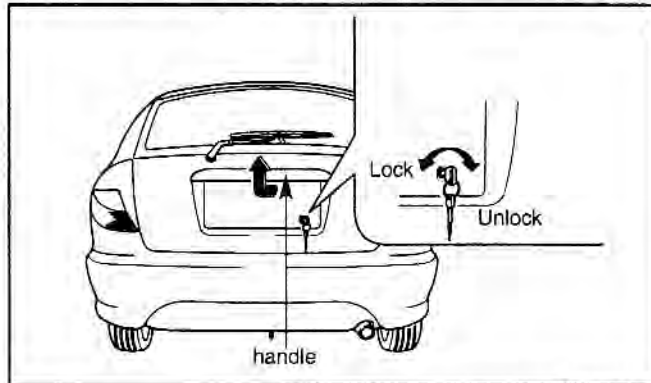
To remind you of the dangers of the air bag, air bag warning labels which are now required by the Canadian Motor Vehicle Safety Standards (CMVSS) are adhered to the driver's and passenger's sunvisors and attached to the glove box.



AS2B03037

Note that even though these government warnings emphasize the risk to children, please be aware of the risk to adults, as described in previous pages.

Rear Hatch (For 5 Door Hatchback)

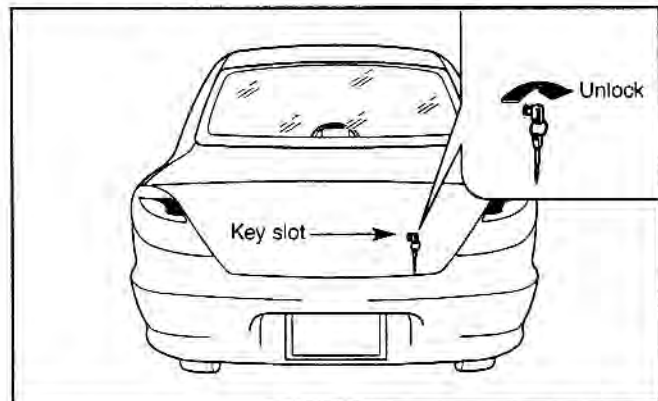


1B3104003B

- The rear hatch can be locked and unlocked with the key.
- You can also unlock the latch with the automatic door lock system(if equipped) but couldn't open the rear hatch.
- Once the rear hatch has been unlocked, lifting the rear hatch handle may open it.

To make certain that you close the rear hatch door before driving your vehicle. Possible damage may occur to the rear hatch lift cylinders and attaching hardware if the rear hatch door is not closed prior to driving.

Trunk Lid (For 4 Door Coupe)



1B3104007E

- To open the trunk, insert the key into the lock and turn it clockwise until an audible “click” is heard.
- To close the trunk, use both hands to push the trunk lid down until the lock “snaps” shut.
- Do not slam the trunk lid.
- Pull up on the trunk lid to make sure it is securely latched.

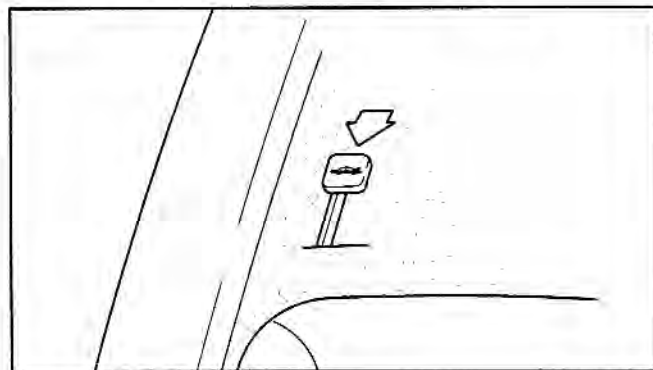
To prevent premature wear or damage to the trunk lid lift cylinders and attaching hardware, the trunk lid must be fully closed before you drive your vehicle.

⚠ WARNING -Exhaust Fumes

If you drive with the trunk lid open, you will draw dangerous exhaust fumes into your vehicle.

If you must drive with the trunk lid open, keep the air vents open so that additional outside air comes into the vehicle.

Remote Trunk Lid Release (If Equipped)

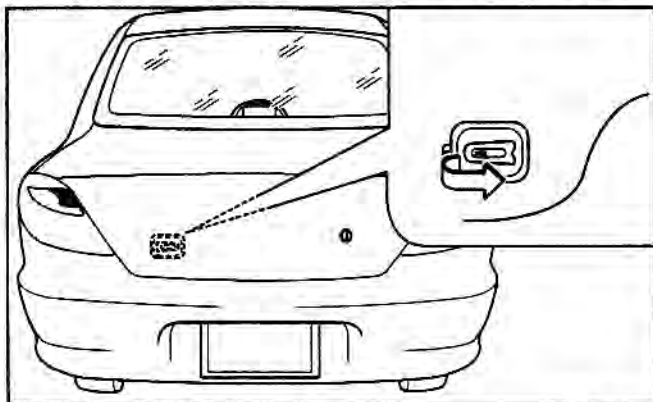


1B3104004C

The release is located at the left front corner of the driver's seat on the floor. To open the trunk, pull up on the lever.

Knowing Your Vehicle

Emergency Trunk Safety Release (If Equipped)



1B3104007F

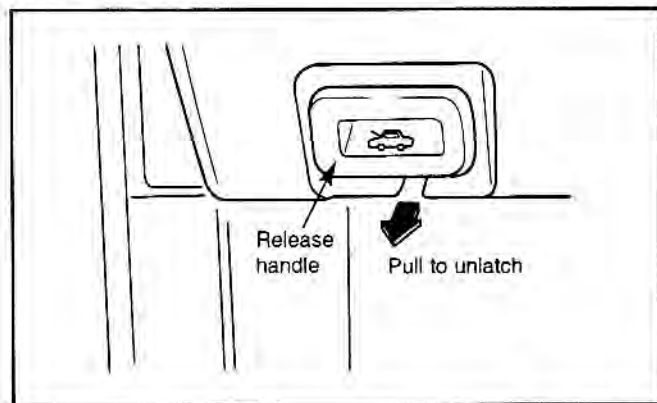
Your vehicle is equipped with an emergency trunk release cable located inside the trunk. When pulled, this cable will release the trunk latch mechanism and open the trunk.

⚠ WARNING -Exhaust Fumes

No one should be allowed to occupy the trunk of the vehicle at any time. If the trunk is partially or totally closed and the person is unable to get out, severe injury or death could occur due to lack of ventilation, fumes and rapid heat build-up, or because of exposure due to cold weather conditions. The trunk is also a highly dangerous location in the event of a crash because it is not a protected occupant space and is instead part of the vehicle's crush zone.

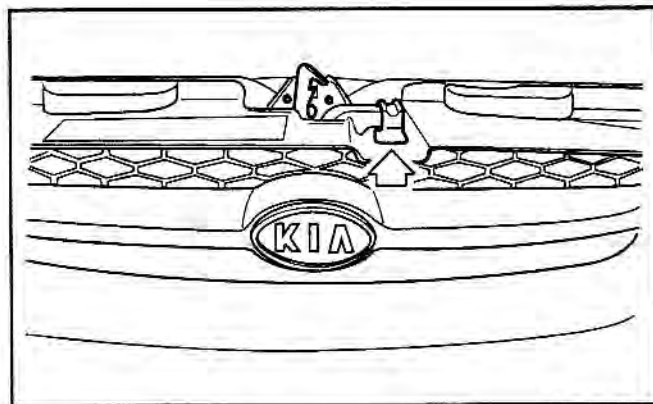
Hood

Opening the Hood

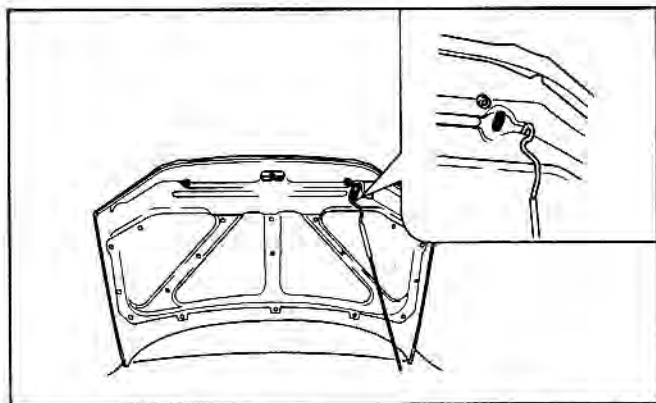


AS2B03041

1. Inside the vehicle, pull the hood release handle located at the bottom left corner of the instrument panel.



2. Go to the front of the vehicle, raise the hood until the secondary latch catches, then lift the secondary latch up (located under the hood at the center of the vehicle).



1RS104013A

3. Lift the hood and hold it open with the prop rod by inserting the free end of the rod into the slot in the hood.

⚠ WARNING

Hold the upper part wrapped in rubber of the support rod. If you hold the other parts when the support rod is heated by engine, you may get burned.

Closing the Hood

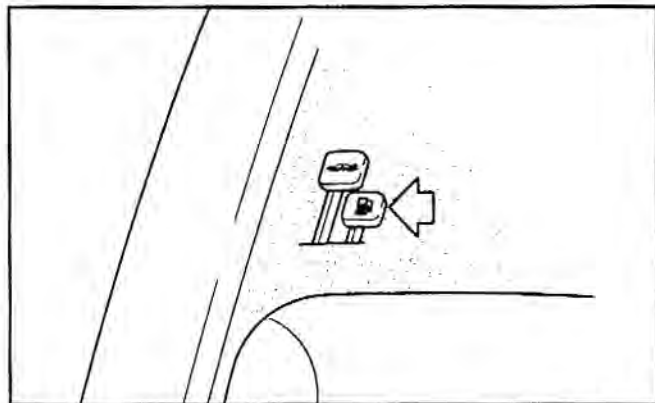
- Check the area under the hood to make certain all filler caps are in place and that all loose items have been removed.
- Secure the support rod in its clip.
- Lower the hood to about 30 cm (12 inches) height and then let it drop to properly lock in place.
- Check to make sure the hood is closed.

⚡ CAUTION

Before closing the hood, make sure that all parts and tools have been removed from the engine area and that everyone is clear of the hood opening.

Fuel Filler Door

Opening the Fuel Filler Door



1B3104004F

Remote Fuel Filler Door

Release(Type A)

Pull up on the release lever(located on the floor) at the left front corner of the driver's seat to open the filler door.

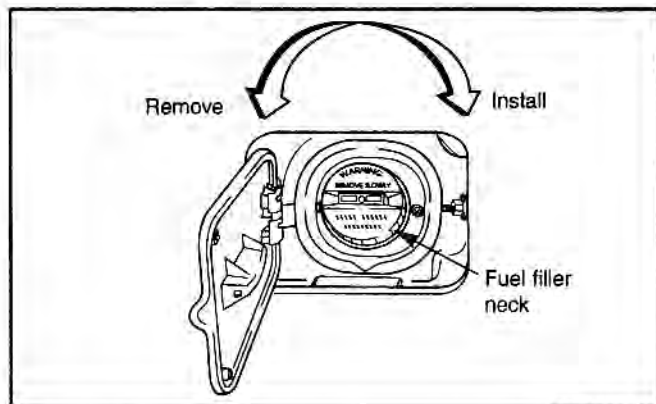
Manual Fuel Filler Door

Release(Type B)

Open the fuel filler door by hand outside the vehicle.

⚠ WARNING - Fuel Filling

- Fuel may be under pressure. Always remove the fuel cap carefully and slowly. If the cap is venting fuel or if a hissing sound is heard, wait until the condition stops before completely removing the cap. If these precautions are not followed, fuel may spray out and cause serious personal injury.
- Fuel vapor is be extremely hazardous and can explode. When refueling, always stop the engine and never allow sparks or open flames near the filler neck. Always extinguish cigarettes and other smoking materials before refueling.



AS2B03046A

- To remove the cap, turn it counterclockwise.
- To install the cap, turn it clockwise until it “clicks.” This indicates that the cap is securely tightened.

* NOTICE

A loose fuel filler cap may cause the OBD-II Malfunction Indicator Light () light in the instrument panel to illuminate unnecessarily. Always ensure that the fuel filler cap is tight.

The fuel filler neck is designed to prevent filling the fuel tank with anything but unleaded fuel.

* NOTICE

If the fuel filler cap requires replacement, use only a genuine Kia cap. An incorrect fuel filler cap can result in a serious malfunction of the fuel system or emission control system. Correct replacement caps are available at Authorized Kia Dealers.

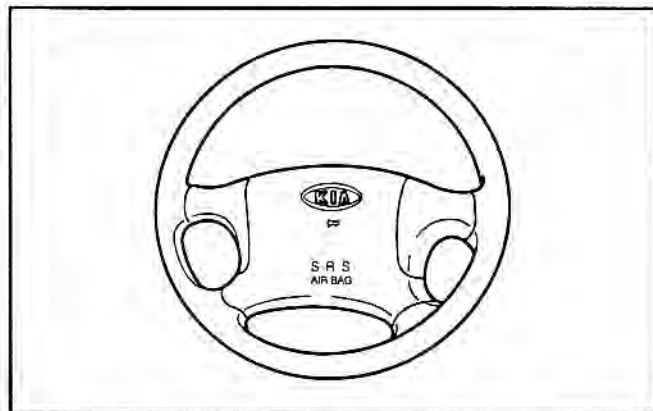
If the fuel filler lid will not open in cold weather because the area around it is frozen, push or lightly tap the lid.

* NOTICE

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

Steering Wheel

Horn



1RS104021C

To sound the horn, press the horn symbol on your steering wheel. Check the horn regularly to be sure it operates properly.

Mirrors

Outside Rearview Mirror

Your vehicle is equipped with both left-hand and right-hand outside rearview mirrors. The mirrors can be adjusted from the vehicle interior with remote control levers, or a remote control switch, depending on the type of control fitted. The mirror heads can be folded rearward to prevent damage when using on automatic car wash.

CAUTION

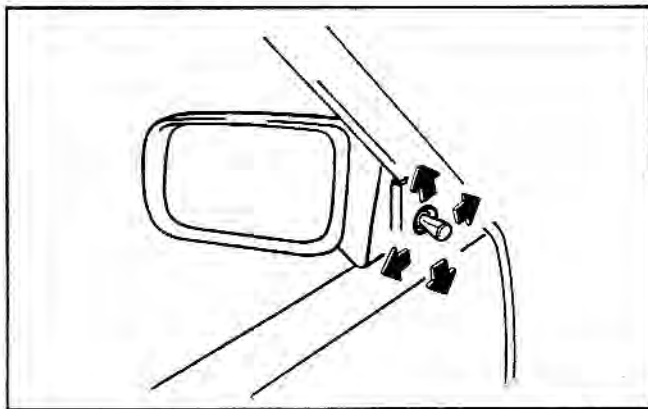
- *The right outside rearview mirror is convex. Objects seen in the mirror are closer than they appear.*
- *When changing lanes, use your interior rearview mirror or direct observation to determine the actual distance of following vehicles behind you.*

* NOTICE

Do not scrape ice off the mirror face; this may damage the surface of the glass. If ice should restrict movement of the mirror, do not force the mirror to adjust it.

To remove ice, use a de-icer spray, or a sponge or soft cloth with very warm water.

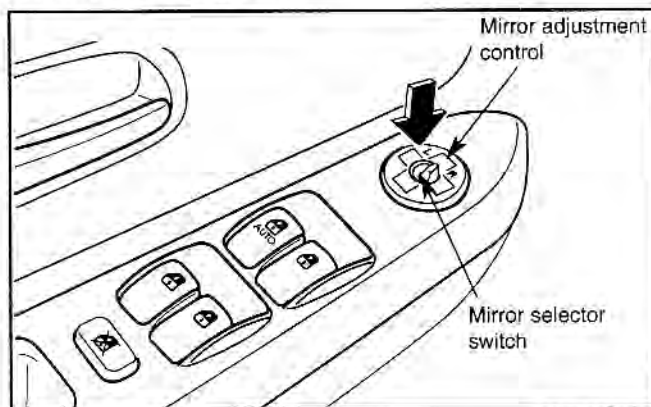
Outside Rearview Mirror Manual Remote Control (If Equipped)



1S2107015

To adjust an outside mirror, move the control lever which is located at the forward inside area of the window frame.

Outside Rearview Mirror Electric Remote Control (If Equipped)



AS2B03008F

This switch controls the adjustments for both right and left outside mirrors. To adjust the position of either mirror:

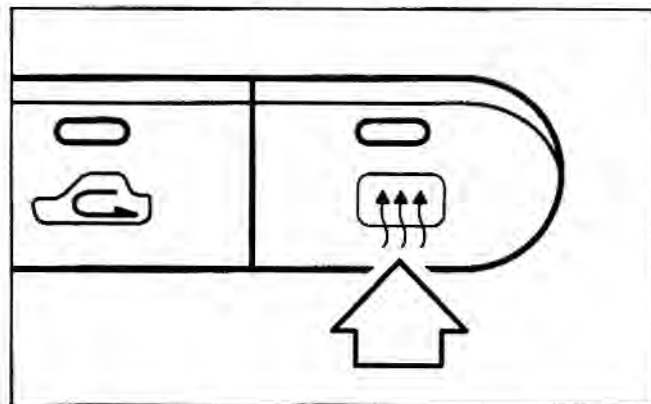
1. Move the selector switch to the right or left to activate the adjusting mechanism for the corresponding mirror.

2. Adjust the mirror angle by depressing the mirror adjustment control switch in the desired direction.

*** NOTICE**

The mirrors stop moving when they reach the maximum adjusting angles, but the motor continues to operate while the switch is depressed. Do not depress the switch longer than necessary or the motor may be damaged.

Outside Rearview Mirror Heater (If Equipped)

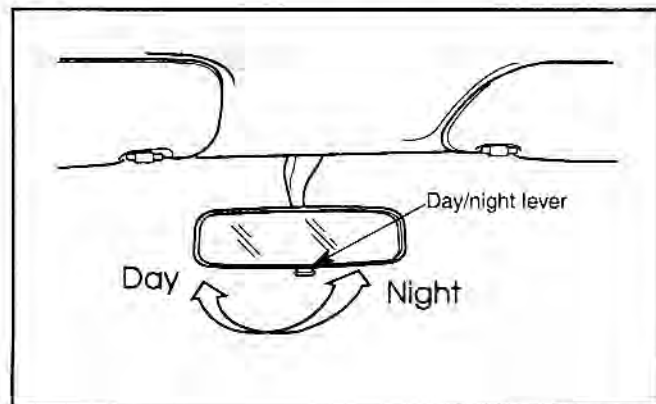


1B3104017D

The outside rearview mirror heater is actuated in conjunction with the rear window defroster. To heat the outside rearview mirror glass, push in the switch for the rear window defroster. The rearview mirror glass will be heated for defrosting or defogging and will provide improved rear visibility during inclement weather. Push the switch again to turn the heater off. The outside rearview mirror heater automatically turns itself off after 20 minutes.

Day/Night Rearview Mirror

Adjust the rearview mirror to center on the view through the rear window. Make this adjustment before you start driving and while the day/night lever is in the day position.



AS2B03050

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

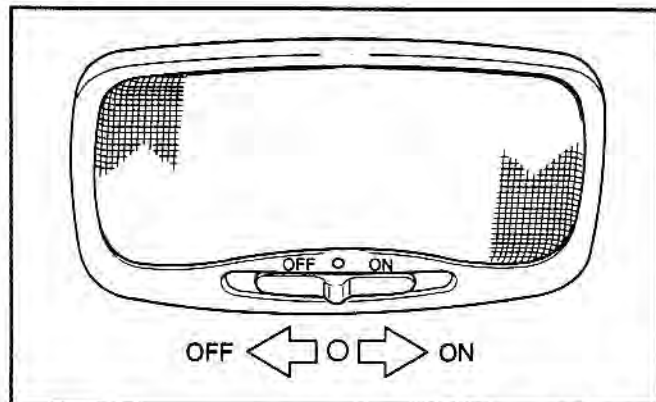
Remember that you lose some rearview clarity in the night position.

CAUTION

Do not allow objects in the rear seat to interfere with your line of vision through the rear window.

Interior Lights

Dome Light

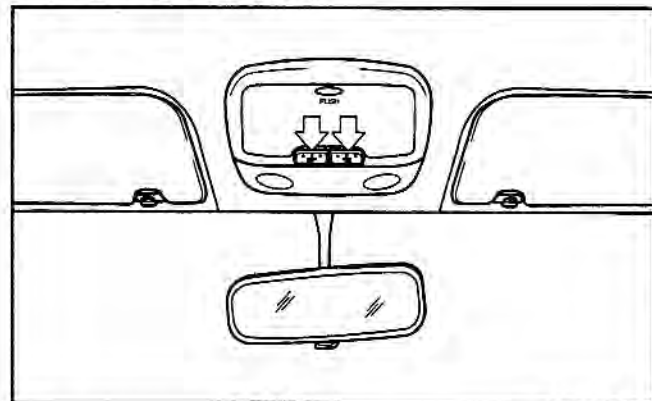


1RS104014

The dome light switch, located in the light assembly, has three positions:

- OFF – The light stays OFF even when a door is open.
- – The light turns ON or OFF when a door is opened or closed.
- ON – The light turns ON and stays ON even when the doors are all closed.

Map light (If Equipped)



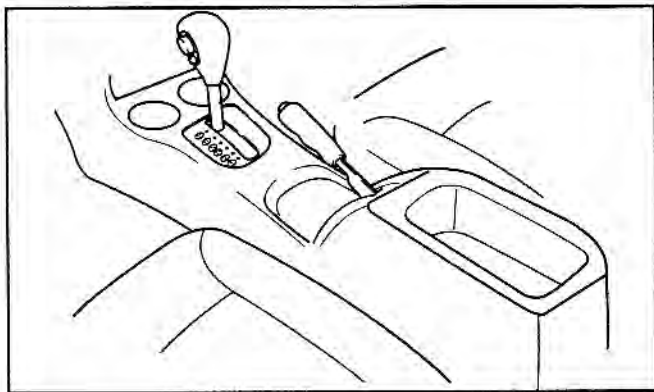
1BC102003D

The lights are switched ON or OFF by pressing the corresponding switches.

Knowing Your Vehicle

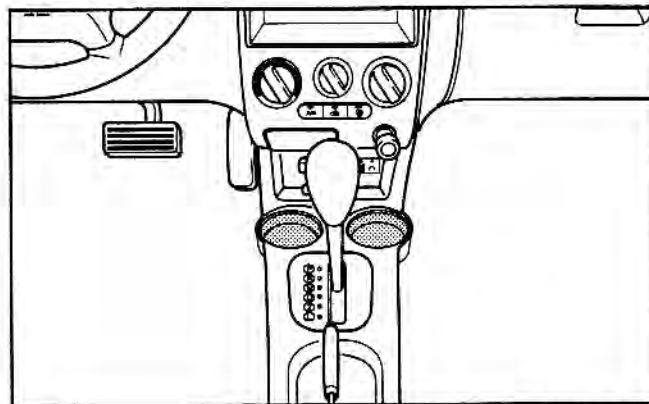
Cup Holders and Console Storage Compartment

Console Storage Compartment



1B3105001H

Cup Holders

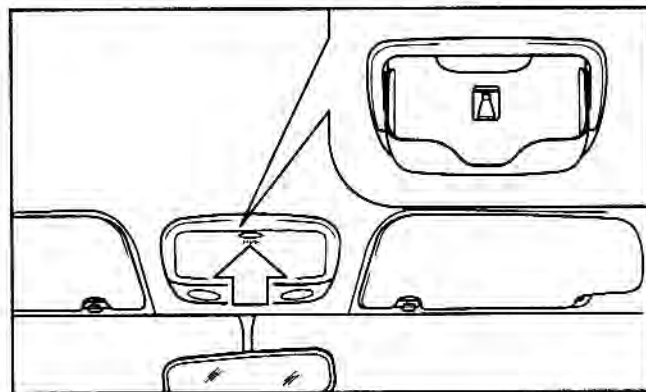


1B3104017E

⚠ WARNING

- Do not place uncovered cups of hot liquid in the cup holder while the vehicle is in motion. If the hot liquid spills, you could be burned and lose control of the vehicle. Moreover, the spilled liquid could cause the failure of the automatic transaxle change lever.
- To reduce the risk of personal injury in the event of a sudden stop or collision, do not place bottles, drinking glasses, cans, etc., in the cup holder while the vehicle is in motion.

Sunglass Holder (If Equipped)



1BC102003A

A compartment is provided on the overhead console to store sunglasses. To open the sunglass holder, press the cover and the holder will slowly open. Place your sunglasses in the compartment door with the lenses facing out.

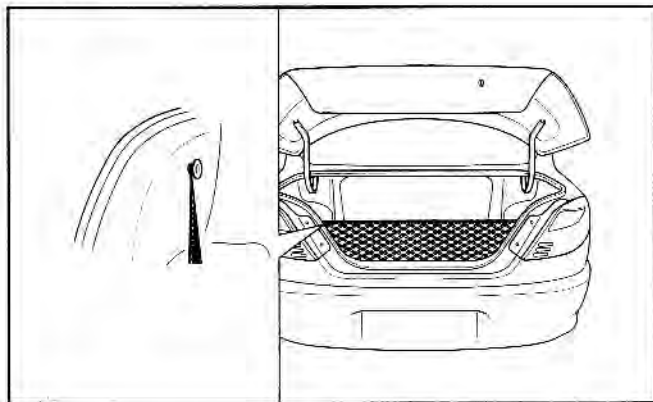
⚠ CAUTION

To reduce the risk of injury in case of an accident or sudden stop, always keep the sunglass holder door closed while driving.

Knowing Your Vehicle

Luggage Net (If Equipped)

Cargo Net



1BC102005

Use the cargo net to keep items from shifting in the trunk. Attach the cargo net to the rings on the side panel.

CAUTION

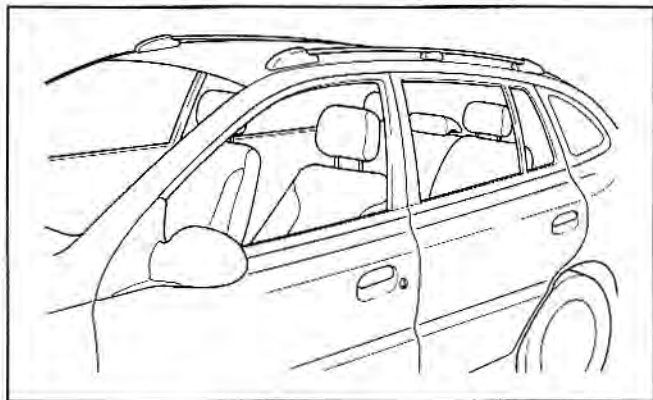
Do not put the stuff of great bulk or many things into cargo net. They could be damaged.

Do not put fragile objects by a swing in cargo area while driving.

WARNING

Avoid eye injury. DO NOT overstretch. ALWAYS keep face and body out of recoil path. DO NOT use when strap has visible signs of wear or damage.

Roof Rack (If Equipped)



1BC102006

Do not exceed the following specifications when loading cargo or luggage.

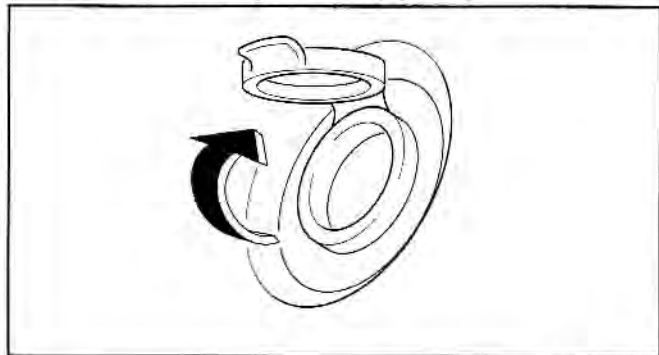
Roof Rack	110lbs (50Kg)
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CAUTION

- *Loading cargo or luggage weighing more than 110 lbs (50Kg) on the roof rack may damage your vehicle. When you carry large objects, never let them hang over the rear or the sides of your vehicle.*
- *To prevent damage or loss to cargo as you are driving, check occasionally to make sure the luggage carrier and cargo are still securely fastened.*
- *Always drive your vehicle at a moderate speed.*

Knowing Your Vehicle

Power Outlet (If Equipped)



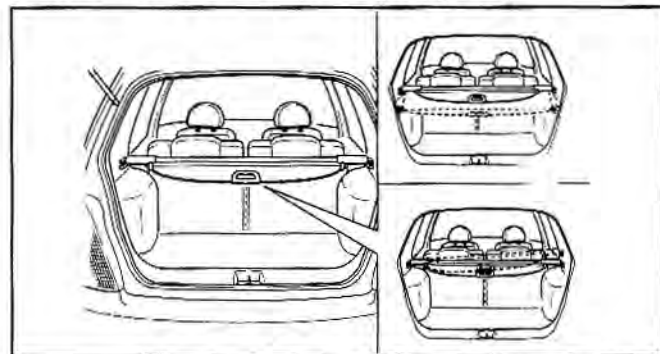
1GQ102021B

Open the power outlet cover on the rear trim and, with the engine running, insert the mating connector from the electrical appliance. Make sure the electrical appliance draws less than 10 amperes at 12 volts.

CAUTION

- *Use the electrical power outlet with the engine running.*
- *If you have to use electrical accessories that draw higher power (vacuum cleaners, lights, coolers, etc.), use the power outlet intermittently and with caution.*
- *If electrical accessories are plugged into the power outlet for long periods with engine off, the vehicle battery will discharge and battery life will be shortened.*
- *Close the power outlet cover when not in use.*

Tonneau Cover (If Equipped)



1B3104020

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

To use the tonneau cover, pull the handle backward and insert the edges into the slots of the slide rails.

CAUTION

- *Do not place objects on the tonneau cover. Such objects may be thrown about inside the vehicle and possibly injure vehicle occupants during an accident or when braking.*
- *Since the tonneau may be damaged or malformed, do not put the luggage on it when it is used.*
- *For better fuel economy, do not carry unnecessary weight.*
- *Never allow anyone to ride in the luggage compartment. It is designed for luggage only.*
- *Try to maintain the balance of the vehicle and locate the weight as far forward as possible.*

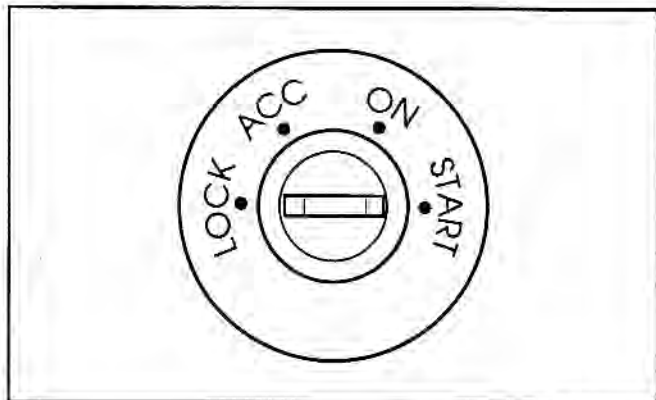
DRIVING YOUR VEHICLE

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Driving Your Vehicle

Ignition Switch

Ignition Switch and Anti-Theft Steering Column Lock



AS2B04001

Ignition Switch Position

LOCK

The steering wheel is locked to protect against theft. The ignition key can be removed only in the LOCK position. For vehicles equipped with an automatic transaxle, it also locks the gear shift lever in the P (Park) position.

ACC (Accessory)

Turning the ignition switch to this position unlocks the steering wheel and will allow some of your vehicle's electrical accessories such as the radio to operate when the engine is OFF.

ON

Turning the ignition switch to this position allows you to test your vehicle's warning lights (except the brake system warning light) to make sure they work before you start the engine. The ignition key returns to the ON position once the engine is started and remains in this position while the engine is running.

Do not leave the ignition switch in the ON position for extended periods with the engine OFF because the battery will discharge.

*** NOTICE**

This spark ignition system meets all requirement of the Canadian interference - Causing Equipment Regulations.

START

Turn the ignition key to the **START** position to start the engine. The engine will crank until you release the key, then it returns to the **ON** position. Also, the brake warning indicator illuminates to check the bulb in this position.

*Difficulty in turning the ignition key to the **START** position can be caused by pressure on the switch from the steering column. To allow the ignition key to turn, move the steering wheel right or left to release the tension and then turn the key.*

* NOTICE

For safety, the engine will not start if the clutch pedal is not depressed fully on manual transaxle equipped models.

WARNING

- **Never turn the ignition switch to **LOCK** or **ACC** while the vehicle is moving. This could result in loss of directional control and braking function, which could cause an immediate accident.**
- **Never reach for the ignition switch, or any other controls, through the steering wheel while the vehicle is in motion. Failure to observe this warning can result in loss of vehicle steering and braking control, which may result in an accident.**

Automatic Transaxle

When turning the ignition switch to the **LOCK** position, the shift lever must be in the **P** (Park) position.

Manual Transaxle

When turning the ignition switch to the **LOCK** position, push the key inward at the **ACC** position and turn the key toward the **LOCK** position.

Starting the Engine

1. Make sure the parking brake is applied.
2. **Manual Transaxle** - Depress the clutch pedal fully and shift the transaxle into NEUTRAL. Keep the clutch pedal depressed while cranking the engine. The starter will not operate if the clutch pedal is not fully depressed.

Automatic Transaxle - Place the transaxle shift lever in P (Park). Depress the brake pedal fully.

You can also start the engine if the shift lever is in the N (Neutral) position.

3. Turn the ignition switch to START and hold it there until the engine starts (a maximum of 10 seconds), then release the key.

In extremely cold weather, below minus 18°C (0°F), or after the vehicle has not been operated for several days, let it warm up without depressing the accelerator.

Whether the engine is cold or warm, it should be started without depressing the accelerator.

* NOTICE

If the engine stalls while you are in motion, do not attempt to move the shift lever to P (Park).

If it is safe to do so considering traffic and road conditions, you may put the shift lever in the N (Neutral) position while still moving and turn the ignition switch to the START position in an attempt to restart the engine.

If the engine fails to start using this procedure, attempt the following.

The engine fails to start when the engine is cold (engine coolant temperature is below 32°F/0°C):

A no start condition may be caused by an engine that has become flooded (has excessive fuel in the cylinders). If this is the case, follow the starting procedure below.

1. Make sure the parking brake is applied.

2. **Manual Transaxle** - Depress the clutch pedal fully and shift the transaxle into N (Neutral). Keep the clutch pedal depressed while cranking the engine. The starter will not operate if the clutch pedal is not fully depressed.

Automatic Transaxle - Place the transaxle shift lever in P (Park) or N (Neutral). Depress the brake pedal fully.

3. Depress the accelerator fully and hold it.
4. While holding the accelerator fully depressed, turn the ignition switch to the START position and hold it (a maximum of 10 seconds) to discharge the excess fuel.

If the engine starts, the engine speed will increase suddenly; immediately release the ignition key and the accelerator.

If the engine has not yet started, release the accelerator after cranking the engine.

5. Without depressing the accelerator, crank the engine until it starts (a maximum of 10 seconds).

If the engine fails to start when the engine is warm:

If the engine is unusually difficult to restart when it is warm (fails to start after repeated attempts without depressing the accelerator):

1. Make sure the parking brake is applied.
2. **Manual Transaxle** - Depress the clutch pedal fully and shift the transaxle into N (Neutral). Keep the clutch pedal depressed while cranking the engine. The starter will not operate if the clutch pedal is not fully depressed.

Automatic Transaxle - Place the transaxle shift lever in P (Park) or N (Neutral). Depress the brake pedal fully.

3. While depressing the accelerator pedal about halfway down, turn the ignition switch to the START position and hold it (a maximum of 10 seconds).
4. After the engine has started, let it idle for about 10 seconds before driving.

* NOTICE

Do not engage the starter for more than 10 seconds. If the engine stalls or fails to start, wait 5 to 10 seconds before re-engaging the starter. Excessive or improper use of the starter may damage it.

* NOTICE

This spark ignition system complies with Canadian ICES-002.

The starter will not operate if:

- **Automatic transaxle** - the shift lever is NOT in P (Park) or N (Neutral).
- **Manual transaxle** - the clutch pedal is not fully depressed.

Excessive engine noise (from valve tappets) may occur if the engine has not been operated for an extended period.

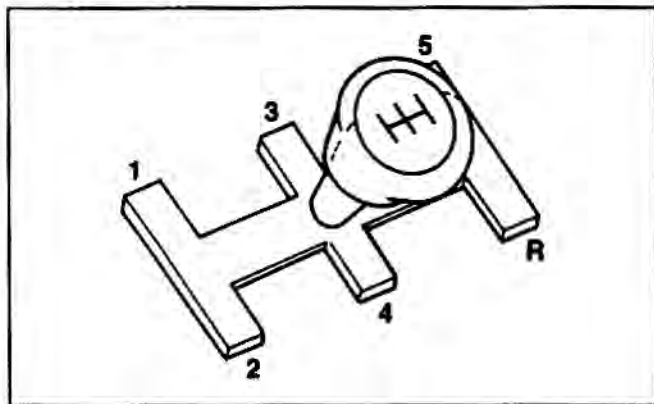
The noise should stop after the engine has reached normal operating temperature.

If the noise does not stop, have the vehicle inspected by an Authorized Kia Dealer.

Manual Transaxle (If Equipped)

Manual Transaxle Operation

The shift pattern is conventional for five forward gears, as shown below.



AS2B04002

Press the clutch pedal down fully while shifting, then release it slowly.

A special safety feature prevents inadvertent shifting from 5 (Fifth) to R (Reverse). The gearshift lever must be returned to the Neutral position before shifting into R (Reverse).

* NOTICE

Make sure the vehicle is completely stopped before shifting into R (Reverse).

* NOTICE

To avoid premature clutch wear and damage, do not drive with your foot resting on the clutch pedal. Also, don't use the clutch to hold the vehicle stopped on an upgrade (while waiting for a traffic light, etc).

⚠ WARNING - Manual Transaxle

Before leaving the driver's seat, always set the parking brake fully and shut the engine OFF, then make sure the transaxle is shifted into 1st gear. Unexpected and sudden vehicle movement can occur if these precautions are not followed in the order identified.

Driving Your Vehicle

Shift Point Recommendations

Upshifting

For normal acceleration, the following shift points are recommended:

Shift Points	km/h (mph)
1st to 2nd	25 (15)
2nd to 3rd	45 (27)
3rd to 4th	62 (37)
4th to 5th	79 (47)

This data has been obtained through tests. You are encouraged to follow this shift schedule.

Occasionally, you may have to shift at higher speeds than those shown above when you need more power, such as when you are driving on a hill or passing another vehicle. However, never exceed maximum engine RPM.

For the best fuel economy, the following shift points are recommended:

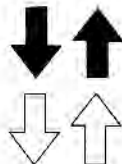
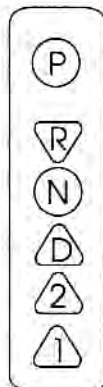
Shift Points	km/h (mph)
1st to 2nd	19 (12)
2nd to 3rd	32 (20)
3rd to 4th	50 (31)
4th to 5th	63 (39)

Downshifting

When you must slow down in heavy traffic or while driving up steep hills, downshift before the engine starts to “labor.” Downshifting reduces the chance of stalling and gives better acceleration when you again need to increase your speed. When the vehicle is traveling down steep hills, downshifting one gear level helps maintain safe speed and prolongs brake life.

Automatic Transaxle (If Equipped)

O/D (Overdrive) System



Normal transaxle gear ranges are provided on the right side of the indicator.

To move the shift lever from the P position, the ignition switch must be in the ON position, the brake pedal must be depressed and the lock release button must be depressed.

The lock release button must be depressed while moving the shift lever.

The shift lever can be moved without depressing the lock release button.

Lock release button

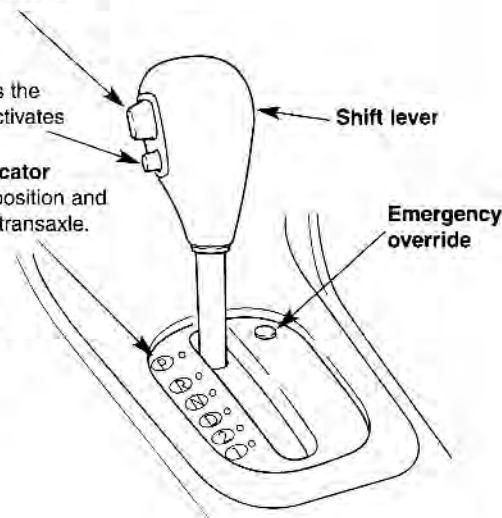
prevents shift lever movement without first depressing the button.

O/D System

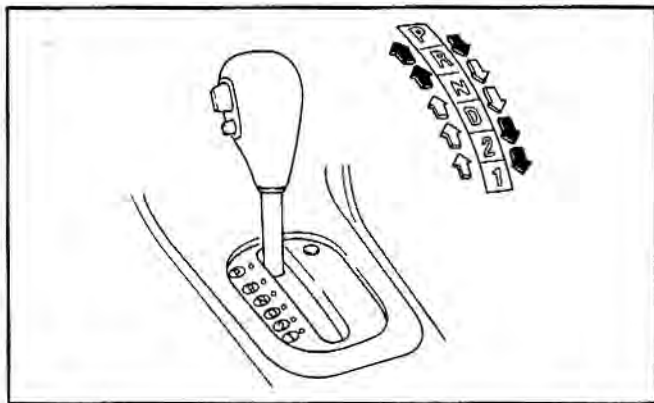
Pressing the button de-activates the O/D mode. Pressing again re-activates the O/D mode.

Shift pattern indicator

shows shift lever position and gear range of the transaxle.



Automatic Transaxle Operation



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All normal forward driving is done with the shift lever in the D (Drive) position.

To move the shift lever from the P (Park) position, the ignition switch must be in the ON position, the brake pedal must be depressed, and the lock release button must be depressed.

For smooth operation, depress the brake pedal when shifting from N (Neutral) to a forward or Reverse gear.

CAUTION

- Do not accelerate the engine in R (Reverse) or any of the forward positions with the brakes on.
- When stopped on an upgrade, do not hold the vehicle stationary with engine power. Use the service brake or the parking brake.
- Do not shift from N (Neutral) or P (Park) into 1 (1st), 2 (2nd), D (Drive) or R (Reverse) when the engine is above idle speed.

WARNING - Automatic Transaxle

- Before leaving the driver's seat, always make sure the shift lever is in the **P (PARK)** position; then set the parking brake fully and shut the engine off. Unexpected and sudden vehicle movement can occur if these precautions are not followed in the order identified.

Transaxle Ranges

O/D (OVERDRIVE) SYSTEM

Pressing the O/D system button cancels and engages the overdrive system. When the O/D system is cancelled (button is depressed), the O/D OFF indicator illuminates and the transaxle gear range is limited to 1st through 3rd. The transaxle will not shift to 4th gear until the O/D system button is again depressed.

When the ignition is switched OFF, the O/D OFF mode is automatically cancelled.

O/D OFF indicator

This indicator light illuminates in the instrument panel when the O/D mode is cancelled.

*** NOTICE**

If the O/D OFF indicator flashes, it indicates an electrical problem with the transaxle. Should this occur, have the vehicle checked by an Authorized Kia Dealer as soon as possible.

NORMAL OPERATION

P (Park)

This position locks the transaxle and prevents the front wheels from rotating. Always come to a complete stop before shifting into this position.

WARNING

Shifting into P (Park) while the vehicle is in motion will cause the front wheels to lock and you will lose driving control of the vehicle.

* NOTICE

The transaxle may be damaged if you shift into P (Park) while the vehicle is in motion.

WARNING

- Do not use the P (Park) position in place of the parking brake when leaving the vehicle. Always make sure the shift lever is latched in the P (Park) position so that it cannot be moved unless the lock release button is pushed in AND the parking brake is fully set.
- Turn the ignition switch OFF whenever you leave the vehicle unattended. Never leave the vehicle unattended while the engine is running. Unexpected and sudden vehicle movement may occur if these precautions are not taken.
- Never leave a child unattended in a vehicle.

R (Reverse)

Use this position to drive the vehicle backward.

CAUTION

Always come to a complete stop before shifting into or out of R (Reverse). You may damage the transaxle if you shift into R while the vehicle is in motion, except as explained in "Rocking the Vehicle."

N (Neutral)

In this position, the wheels and transaxle are not locked. 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 transaxle will automatically shift through a four-gear sequence, providing the best fuel economy and power. *For extra power when passing another vehicle or climbing steep grades, depress the accelerator fully, at which time the transaxle will automatically downshift into the next lower gear.*

For improved engine performance, the transaxle will not shift into 4th gear until the engine coolant reaches normal operation temperature.

2 (2nd)

Move shift lever to this position for driving in heavy, slow-moving traffic or when climbing hills. This position also provides engine braking when going down hills and helps reduce wheel spin on slippery surfaces.

1 (1st)

Move the shift lever to this position in hard pulling situations and for climbing or descending steep grades.

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), 2 (2nd), or 1 (1st). 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.

Shift Lock System

For your safety, the Automatic Transaxle has a shift lock system which prevents shifting the transaxle out of P (Park) unless the brake pedal is depressed.

To shift the transaxle out of P (Park):

1. Depress and hold the brake pedal.
2. Start the engine or turn the ignition key to the ON position.
3. Depress the lock release button and move the shift lever.

When the ignition switch is in the ACC or LOCK position, the transaxle cannot be shifted from P (Park).

If the brake pedal is repeatedly depressed and released with the shift lever in the P (Park) position, a chattering noise near the shift lever may be heard.

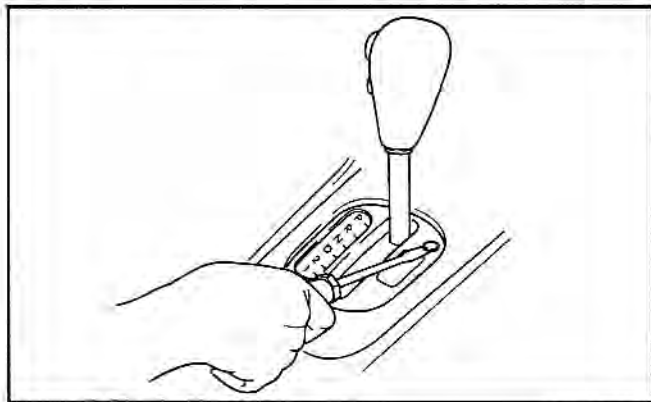
This is a normal condition.

Also, the ignition key cannot be removed unless the shift lever is in the P (Park) position. If the ignition switch is in any other position, the key cannot be removed.

Driving Your Vehicle

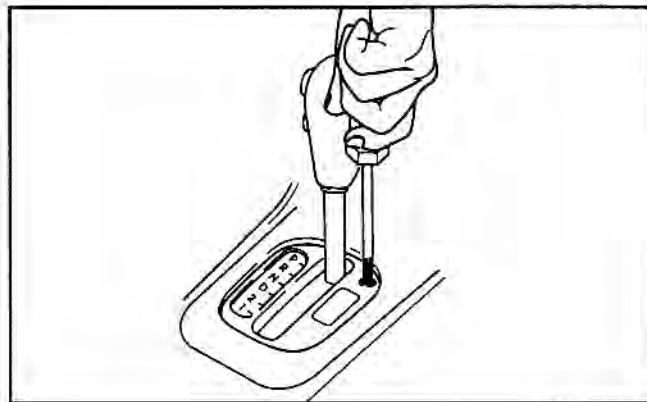
Shift Lock Override

If the shift lever should fail to move from the P (Park) position with the brake pedal depressed, continue depressing the brake, then do the following:



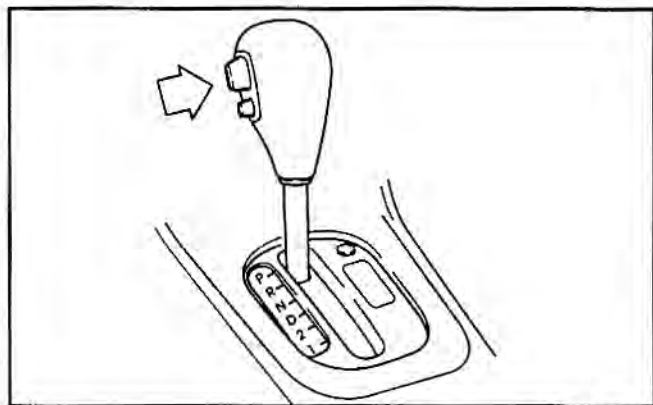
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1. Carefully remove the cap covering the emergency override access hole which is located on the right side of the shift lever.



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2. Insert a screwdriver (cross or flat blade) into the access hole, then depress the screwdriver.



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3. Press the brake pedal.
4. Depress the lock release button and move the shift lever.
5. Have your vehicle inspected by an Authorized Kia Dealership immediately.

Brake System

Power Brakes

Your vehicle has power-assisted brakes that adjust automatically through normal usage.

In the event that brake system power assist is lost because of a stalled engine or some other reason, you can still stop your vehicle by applying greater force to the brake pedal than you normally would. The stopping distance, however, will be longer.

When the engine is not running, the reserve brake power is partially depleted each time the brake pedal is depressed. Do not pump the brake pedal when the power assist has been interrupted, except when necessary to maintain steering control on slippery surfaces.

Anti Lock Brakes (ABS) (if equipped)

The anti-lock brake system is designed to prevent lock-up of the wheels during sudden braking or braking on slippery surfaces. Compared to a conventional brake system, the anti-lock brake system provides greater steering control during braking in such situations.

WARNING - ABS Brakes

- The anti-lock brake system (ABS) cannot compensate for bad road conditions, for unsafe or reckless driving or for bad judgment.
- The ABS is designed to improve maximum braking effectiveness on typical highways and roads in good condition. On road surfaces which are in poor condition, the ABS may actually reduce braking effectiveness.
- Always operate your vehicle at reasonable speeds that are safe for weather and traffic conditions.

During normal driving conditions, the anti-lock brake system operates the same as a conventional brake system. When the anti-lock brake system is engaged due to imminent loss of traction, a pulsation of the brake pedal will result and you may hear or feel “chattering”. This is a normal condition and indicates the system is functioning properly.

When driving a vehicle equipped with anti-lock brakes, adjust your driving according to the road and traffic conditions and keep the following in mind.

- Do not pump the brakes as you would when driving a vehicle not equipped with an anti-lock brake system (ABS). In order for the ABS to function normally, press the brake pedal firmly, without pumping the pedal.
- Even with the anti-lock brake system, your vehicle still requires a 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.
- Avoid high speeds on wet roads. The anti-lock brake system cannot eliminate the risk of hydroplaning.

If the anti-lock brake system should fail, the brake system will function as a conventional brake system. Have your vehicle checked by an authorized Kia dealer as soon as possible.



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*** NOTICE**

- If the ABS warning light is ON and stays ON, you may have a problem with the ABS system. In this case, however, your regular brakes will work normally.
- The ABS warning light will stay ON for 2~3 seconds after the engine starts. 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 system. Contact an authorized Kia dealer for service as soon as possible.

*** NOTICE**

- If the battery is discharged and the engine is jump started, the ABS warning light may come ON. This condition occurs because of a discharged battery and not because there is an anti-lock brake system malfunction.
- Have the battery recharged before driving the vehicle.

In the Event of Brake Failure

If the service brakes should 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

Pulling on 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.

⚠ WARNING

- **Do not drive with your foot resting on the brake pedal. This will create abnormally high brake temperatures, excessive brake lining and pad wear, and increased stopping distances.**
- **When descending a long or steep hill, shift to a lower gear and avoid continuous application of the brakes. Continuous brake application will cause the brakes to overheat and could result in a temporary loss of braking performance.**
- **Wet brakes may result in the vehicle not slowing down at the usual rate and/or pulling 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.**

Disc Brake Wear Indicators

Your vehicle has front disc brakes.

When your front brake pads are worn and it's time for new pads, you will hear a high-pitched warning sound from your front brakes. You may hear this sound intermittently or constantly.

WARNING - Brake Wear

This brake-wear warning sound means your vehicle needs service. If you ignore this audible warning, you will eventually lose braking performance, which could lead to a serious accident.

NOTICE

To avoid costly brake repairs, do not continue to drive with worn brake pads.

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.

Rear Drum Brakes

Your rear drum brakes don't have wear indicators. Have the rear brake linings inspected if you hear a rear brake rubbing noise. Also, have your rear brakes inspected each time you change or rotate your tires and when you have the front brakes replaced.

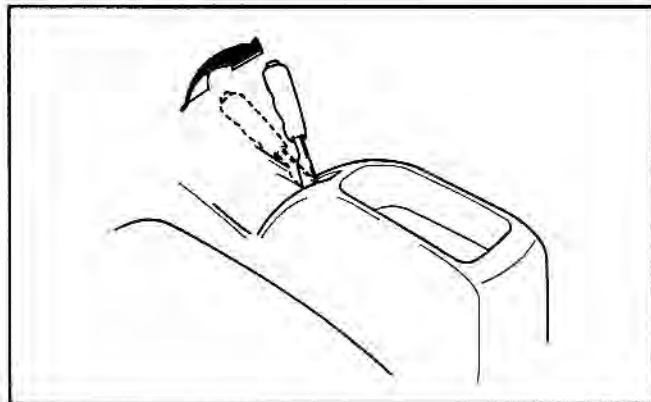
CAUTION

Always replace brake linings or front pads as complete front or rear axle sets.

Driving Your Vehicle

Parking Brake

- To set the parking brake, pull the parking brake handle fully and firmly upward while applying the service brake.

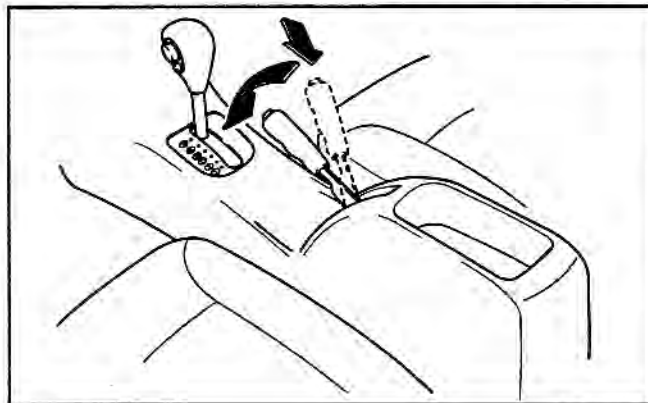


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CAUTION

Driving with the parking brake on will cause excessive wear of the brake linings and pads.

- To release the parking brake, pull the handle up slightly and push the button. Then, lower the handle to the released position while holding the button in.



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CAUTION

When stopped, do not use the gearshift lever in place of the parking brake. Always set the parking brake fully AND make sure the gearshift lever is securely positioned in

P (Park) with an automatic transaxle or in 1st (First) or R (Reverse) gear with a manual transaxle.



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Check the brake warning light each time you start the engine. The light is located in the instrument panel. This warning light will be illuminated when the ignition switch is ON or START and the parking brake is set.

Before driving, be sure the parking brake is fully released and the brake warning light is off.

If the brake warning light remains on after the parking brake is released, there may be a malfunction in the brake system. Immediate attention is necessary.

If at all possible, cease driving the vehicle immediately. If that is not possible, use extreme caution in operating the vehicle and only drive it until you reach the first safe location or a repair shop.

Parking on Curbed Streets

- When parking your vehicle on an uphill grade, park as close to the curb as possible and turn the front wheels away from the curb so that the front wheels will contact the curb if the vehicle moves backward.
- When parking your vehicle on a downhill grade, park as close to the curb as possible and turn the front wheels toward the curb so that the front wheels will contact the curb if the vehicle moves forward.

Power Steering (If Equipped)

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

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

* NOTICE

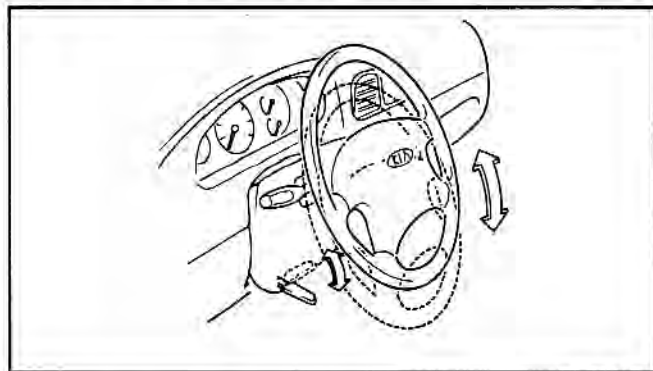
Never hold the steering wheel against a stop (extreme right or left turn) for more than five seconds with the engine running. Holding the steering wheel for more than five seconds in either position may cause damage to the power steering pump.

If the power steering drive belt breaks or if the power steering pump malfunctions, the steering effort will become increased significantly.

After your vehicle was left in the outside for a long time in cold weather, ambient temperature is less than 14°F (-10°C), if you would start the engine, the power steering might be delayed once in a while because of a rise of the viscosity of the power steering fluid. But, it's not malfunction. In this case you must warm up the power steering fluid by idling properly.

Tilt Steering (If Equipped)

A tilt steering wheel allows you to adjust the position of the steering wheel before you drive. You can also raise it to the highest level to give your legs more room when you exit and enter the vehicle.



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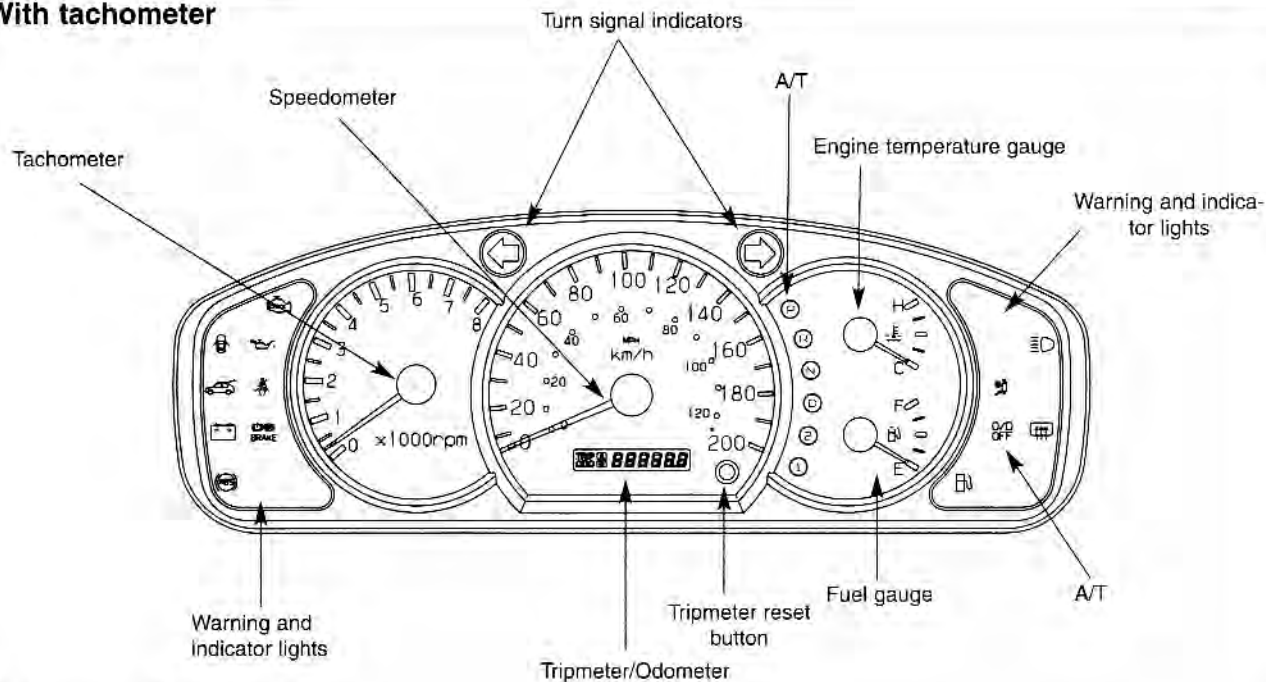
To tilt the wheel, hold the steering wheel and pull the lock release lever down. Move the steering wheel to a comfortable level, then push the lock release lever up to lock the steering wheel in place.

⚠ WARNING

Never adjust the angle of steering wheel while driving. You may lose your steering control and cause severe personal injury or accidents.

Instrument Cluster

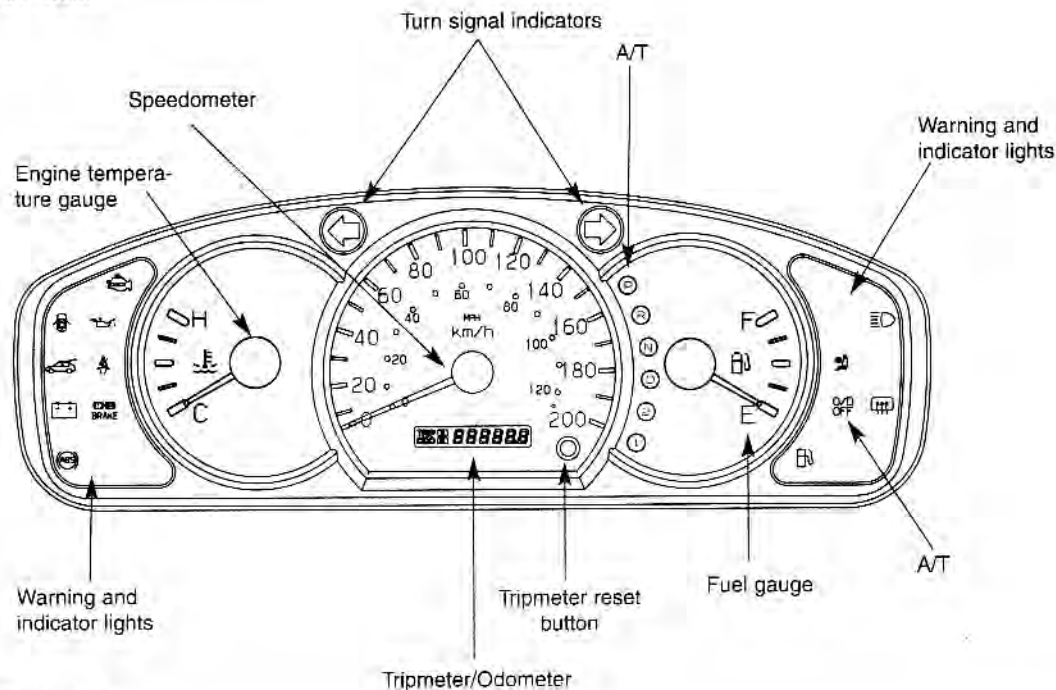
With tachometer



A/T: Automatic Transaxle

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Without tachometer



A/T: Automatic Transaxle

2FDA410A

Gauges

Speedometer

The speedometer indicates the forward speed of the vehicle.

Odometer/Tripmeter

You can choose the odometer, Tripmeter A and Tripmeter B by pressing the mode selection button.

Odometer

The odometer indicates the total distance the vehicle has been driven.

Tripmeter (If equipped)

TRIP A: Tripmeter A

TRIP B: Tripmeter B

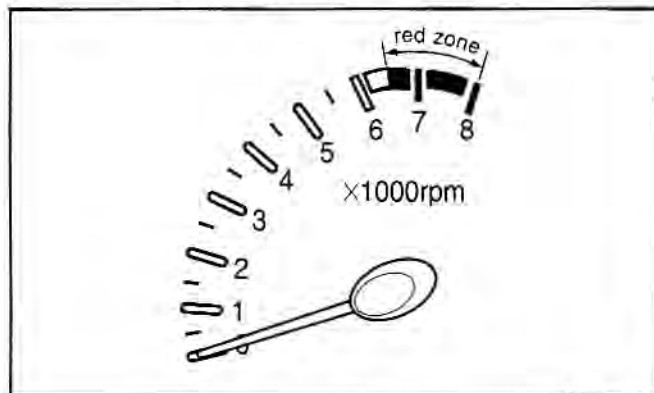
The tripmeter indicates the distance on individual trips selected by the driver. Tripmeter A and B can be reset to zero by pressing the mode selection button for one second or more, then releasing.

* NOTICE

Do not operate the engine within the tachometer's RED ZONE.

This may cause severe engine damage.

Tachometer (If Equipped)



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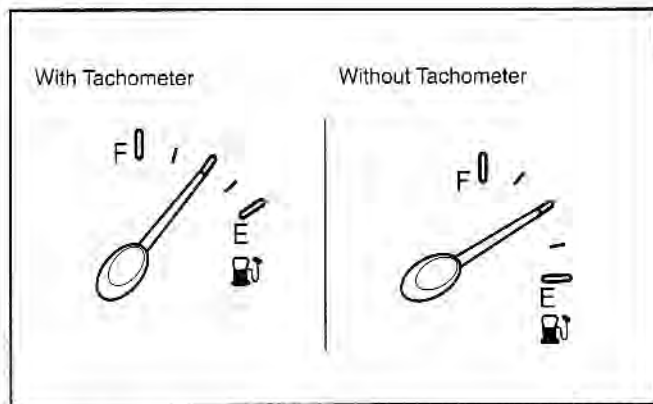
The tachometer indicates the approximate number of engine revolutions per minute (rpm).

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

The tachometer pointer may move slightly when the ignition switch is in the ACC or ON position with the engine OFF. This movement is normal and will not affect the accuracy of the tachometer once the engine is running.

Driving Your Vehicle

Fuel Gauge



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

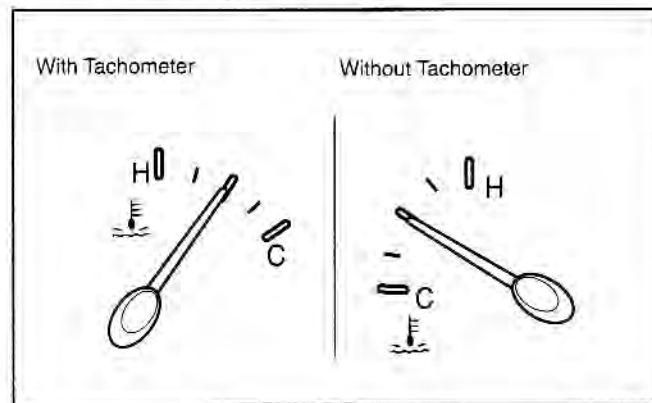
Fuel tank capacity: 45 L (11.7 US gal.)

The fuel gauge is supplemented by a low fuel warning light located in the instrument panel.

This gauge is designed to continue indicating the amount of fuel remaining in the fuel tank even after the ignition switch has been turned to OFF.

Engine Temperature Gauge

This gauge shows the temperature of the engine coolant when the ignition switch is ON.

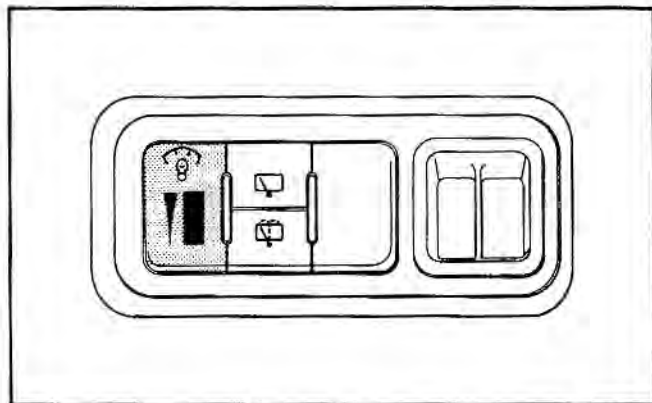


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If the gauge pointer moves beyond the normal range area toward the H position, it indicates overheating that may damage the engine.

Do not continue driving with an overheated engine. If your vehicle overheats, refer to "Overheating" in the Index.

Instrument Panel Illumination (If equipped)



2FDA407

When the vehicle's parking lights or headlights are ON, rotate the illumination control knob to adjust the instrument panel illumination intensity.

Warnings and Indicators

Warning Lights/Audible Indicators

Checking Operation

All the warning lights are checked by turning the ignition switch ON (you do not need to start the engine). Any light that does not come ON should be checked by an Authorized Kia Dealer.

After starting the engine, check to make sure that all warning lights are OFF. If any are still ON, this indicates a situation that needs attention. When releasing the parking brake, the brake system warning light should go OFF.

Parking Brake and Brake Fluid Warning



Parking Brake Warning

This light comes ON when the parking brake is applied with the ignition switch in the START or ON position. The warning light should go OFF when the parking brake is released.

Driving Your Vehicle

Low Brake Fluid Level Warning

If the warning light remains ON when the parking brake is released, it may indicate that the brake fluid level in the reservoir is low.

If the warning light remains ON:

1. Drive to the nearest safe location and carefully stop your vehicle.
2. With the engine stopped, check the brake fluid level immediately and add fluid as required. All brake components should also be checked immediately for fluid leaks.
3. If leaks are found, if the warning light remains ON, or if the brakes do not operate properly, do not drive the vehicle. Have it towed to an Authorized Kia Dealer for a brake system inspection and necessary repairs.

WARNING - Brake Warning Lights

Driving the vehicle with a warning light ON is dangerous. If the brake warning light remains ON, have the brakes checked and repaired immediately.

To check bulb operation, the warning light illuminates when the ignition switch is in the ON position.

Safety Belt Warning



If the driver's lap/shoulder belt is not fastened when the key is turned ON, a chime sounds for approximately six seconds and the safety belt warning light illuminates for approximately six seconds. If the system does not operate as described, see an Authorized Kia Dealer for assistance.

Air Bag Warning



This warning light will remain ON for approximately 6 seconds each time you turn the ignition switch ON. If the system does not operate as described or if the light comes on while the vehicle is being driven, see an Authorized Kia Dealer for immediate assistance.

Charging System Warning



This warning light indicates a malfunction of either the generator or electrical charging system.

If the warning light illuminates while driving:

1. Drive to the nearest safe location and carefully stop your vehicle.
2. With the engine OFF, check the generator drive belt for looseness or breakage.
3. If the belt is adjusted properly, a problem exists somewhere in the electrical charging system. Have an Authorized Kia Dealer locate and correct the problem as soon as possible.

*** NOTICE**

Do not drive the vehicle with a loose or broken generator belt; the engine could be damaged by overheating because this belt also drives the water pump.

Engine Oil Pressure Warning

This warning light indicates the engine oil pressure is low.

If the warning light comes ON while driving:

1. Drive safely to the side of the road and stop.

2. With the engine OFF, check the engine oil level. If the level is low, add oil as required.

If the warning light remains ON after adding oil or if oil is not available, call an Authorized Kia Dealer.

*** NOTICE**

- If the engine is not stopped as soon as possible, severe engine damage could result.
- Do not drive the vehicle when the Engine Oil Pressure Warning Light is ON.

Low Fuel Level Warning

This warning light indicates the fuel tank is near empty. The warning light will come on when the fuel level has dropped to about 9 liters (2.4 US gal.).

Refuel as soon as possible.

Malfunction Indicator



The CHECK ENGINE or malfunction indicator light is installed in your vehicle's instrument panel and responds to signals from the vehicle's On Board Diagnostic (OBD -II) System. The OBD-II System monitors the performance of the vehicle's Emission Control System (ECS), which is designed to reduce the amount of air pollutants in engine exhaust to the levels required by government regulations.

When you first start the engine, the CHECK ENGINE light will illuminate briefly as a system check to confirm that the OBD-II System is operating properly. As the engine starts, this light turns off. However, if at any time the OBD-II system detects a faulty signal or determines that the ECS is not performing to specification, the CHECK ENGINE light will illuminate continuously or flash.

Continuously ON :

If the CHECK ENGINE light comes ON while driving and illuminates continuously, a potential problem has been discovered in the ECS or one of the exhaust system components. Generally, the vehicle will continue to be driveable but it should be checked by an authorized Kia dealer as soon as possible. This condition is unlikely to lead to engine damage unless a decrease in vehicle power or poor running conditions is immediately apparent.

Flashing ON and OFF :

If the CHECK ENGINE light begins to flash ON and OFF, a more serious problem with the ECS or exhaust system component has been detected. If this happens, and there is no degradation to performance, the vehicle is still driveable (avoid high speeds) but should be checked by an authorized Kia dealer at your earliest possible convenience. If the flashing CHECK ENGINE light is accompanied by a decrease in power or poor running conditions, safely stop the vehicle and immediately contact Kia Roadside Assistance.

Note that the CHECK ENGINE light will illuminate for a problem like a loose or missing gas cap, but will not illuminate as a result of low engine oil or coolant, low automatic transaxle fluid or engine overheating. The driver will be alerted to these conditions by other indicators on the instrument panel.

CAUTION

- *Prolonged driving with the On Board Diagnostic System Malfunction Indicator Light () illuminated may cause damage to the emission control systems which could effect driveability and/or fuel economy.*
- *If the On Board Diagnostic System Malfunction Indicator Light () begins to flash ON and OFF, potential catalytic converter damage is possible which could result in loss of engine power. Have the On Board Diagnostic System inspected as soon as possible by an authorized Kia dealer.*

* NOTICE

A loose fuel filler cap may cause the *On Board Diagnostic* System Malfunction Indicator Light () in the instrument panel to illuminate unnecessarily. Always make sure that the fuel filler cap is tight.

Key Reminder Warning Chime

If the driver's door is opened and the ignition key is left in the ignition switch, the key reminder warning chime will sound. This is to remind you to remove your keys from the ignition before you lock the vehicle.

Lights-On Warning Chime

The lights-on warning chime will sound if the headlight switch is left in the 1st or 2nd position and the door is opened.

Headlight High Beam Indicator

This indicator illuminates when the headlights are on and in the high beam position or when the turn signal lever is pulled into the Flash-to-Pass position.

O/D OFF Indicator (automatic transaxle)

**O/D
OFF**

This indicator comes on when the O/D system is deactivated.

Door Ajar Warning



This warning light comes on when a door is not closed securely with the ignition switch in any position.

Anti-Lock Brake System (ABS)



Warning Light (if equipped)

This light illuminates when you start the engine. The light will go off if the ABS system is operating normally. Also, this light comes on if the key is turned to ON, and then goes off in 2-3 seconds if the system is operating normally.

If this warning light illuminates while the vehicle is being driven, have the vehicle checked by an authorized Kia Dealer as soon as possible.

Rear Window Defroster Indicator



This light comes on when the rear defroster is ON.

Rear Hatch Warning Light



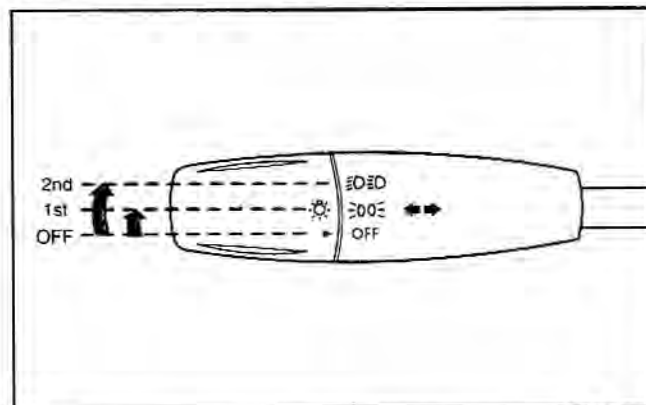
(5 door-if equipped)

This warning light comes on when a rear hatch is not closed securely with the ignition switch in any position.

Lighting

Lighting Control

To turn the lights on, twist the knob on the end of the control lever which is located on the steering column to the left of the steering wheel.



First position

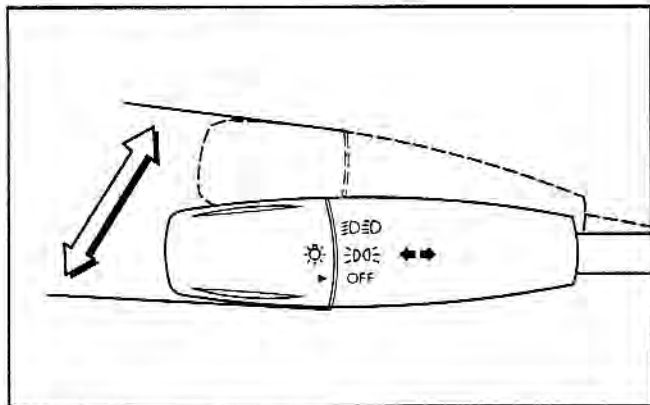
Tail, parking, license and sidemarker lights and instrument panel lights ON.

Second position

Head, tail, parking, license and sidemarker lights and instrument panel lights ON.

Driving Your Vehicle

High-Beam Operation



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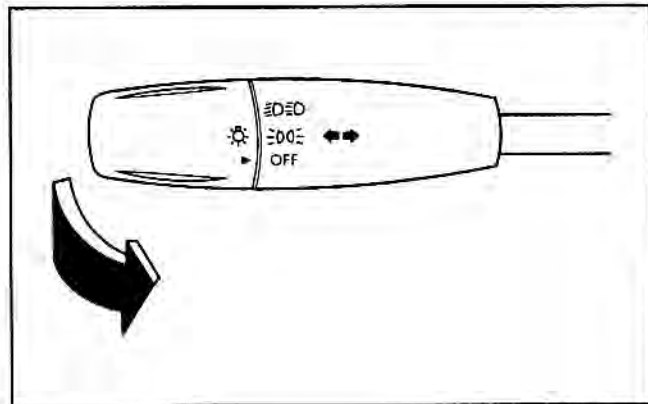
For high beam headlights, push the lever away from you. Pull it back for low beams.

The high-beam indicator will illuminate when the headlight high beams are switched ON.

To prevent the battery from being discharged, do not leave the lights ON for a prolonged time while the engine is not running.

Flashing Headlights

To flash the headlights, pull the lever toward you. It will return to the normal position when released. The headlight switch does not need to be ON to use this flashing feature.

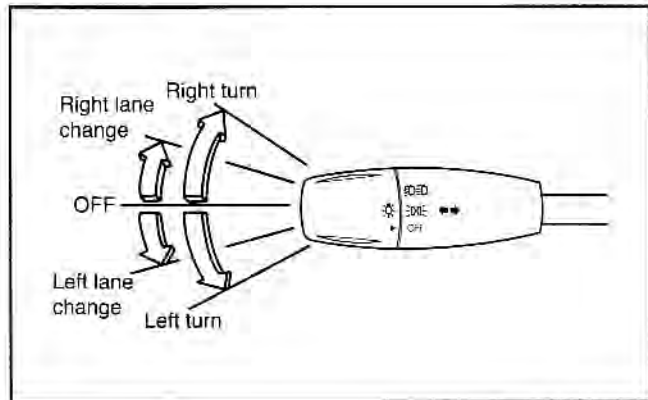


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Turn Signals

The same lever that controls the headlights also controls the turn signals.

The ignition switch must be ON for the turn signals to function. Move the lever up or down to activate the turn signals. The turn signals will self-cancel after a turn is completed. If the indicator continues to flash after a turn, manually return the lever to the OFF (middle) position.



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Lane Change Signals

To signal a lane change, move the turn signal lever slightly and hold it in position. The lever will return to the OFF (middle) position when released.

Green arrow indicators on the instrument panel indicate which turn signal is operating. If an indicator stays ON and does not flash or if it flashes abnormally, one or more of the turn signal bulbs may be burned out and will require replacement.

Daytime Running Lights (DRL)

Daytime Running Lights (DRL) can make it easier for others to see the front of your vehicle during the day. DRL can be helpful in many different driving conditions, but they can be especially helpful in the short periods after dawn and before sunset. The DRL system will make your low-beam headlights turn OFF when:

- The headlight switch is ON
- The parking brake is engaged
- The taillights switch is ON

Driving Your Vehicle

Wipers and Washers

Windshield Wipers

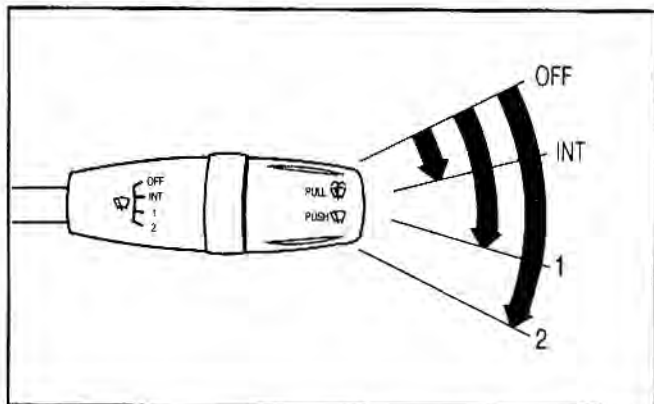
The ignition switch must be ON.

To turn the wipers ON, pull the windshield wiper control lever down.

INT – Intermittent wiper operation

1 – Normal wiper speed

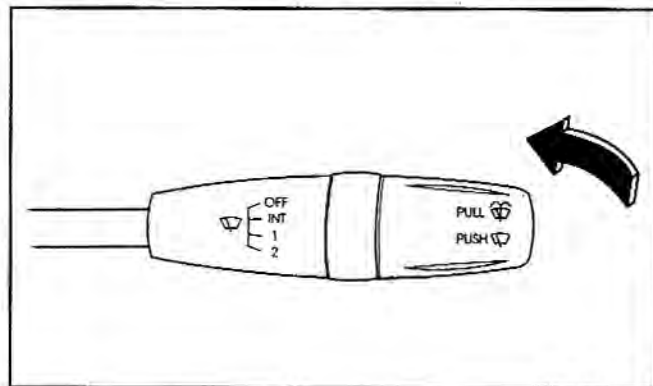
2 – Fast wiper speed



1T2103011

One-Touch Wipers

For a single wiping cycle, push the lever forward and release it with the lever in the OFF position.



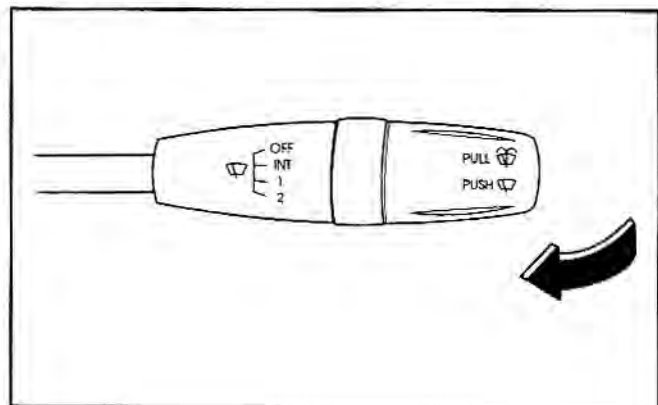
1T2103013B

* NOTICE

- 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.

Windshield Washers

The ignition switch must be ON for the washer system to operate. Pull the lever toward you and hold it to activate the washer. The wiper will automatically turn on and wipe for 1 to 3 cycles after the lever is released.



1T2103013C

If the washer does not work, check the washer fluid level. If the fluid level is not sufficient, add an appropriate, non-abrasive, windshield washer fluid to the washer reservoir. The reservoir filler neck is located in the front of the engine compartment, on the passenger's side.

CAUTION

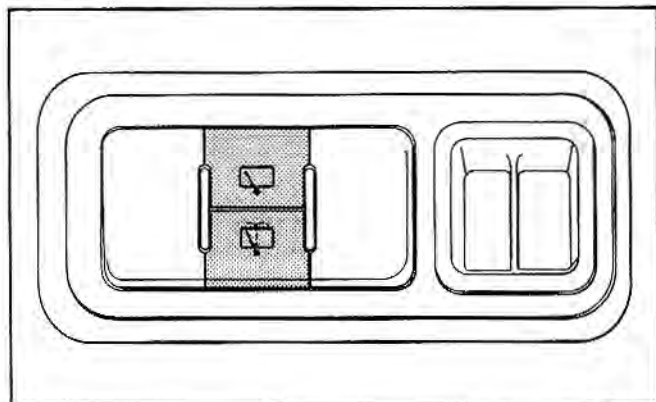
Do not use the washer in freezing temperatures without first warming the windshield with the defrosters; the washer solution could freeze on contact with the windshield and obscure your vision.

*** NOTICE**

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

Driving Your Vehicle

Rear Windshield Wiper and Washer (If Equipped)

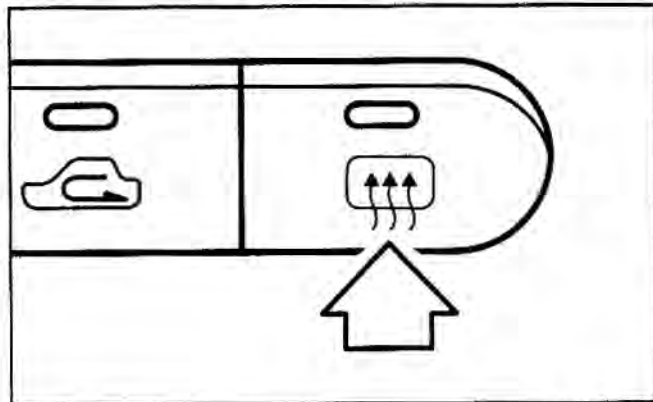


2FDA408

The rear window wiper and washer can be activated by depressing the corresponding switch.

If you want to activate the rear wiper and washer simultaneously, depress the lower switch. To activate the rear wiper only, depress the upper switch.

Rear Window Defroster (If Equipped)



1B3104017D

Type A

The defroster heats the window to remove frost, fog and thin ice from the interior and exterior of the rear window. The ignition switch must be ON for the defroster to operate.

To activate the rear window defroster, press the rear window defroster button located in the center console switch panel. The instrument panel rear window defroster indicator illuminates when the defroster is ON.

Type B

The defroster heats the window to remove frost, fog and thin ice from the interior and exterior of the rear window. The ignition switch must be ON for the defroster to operate.

To activate the rear window defroster, press the rear window defroster button located in the center console switch panel. The instrument panel rear window defroster indicator illuminates when the defroster is ON.

The rear window defroster automatically turns OFF after 20 minutes or when the ignition switch is turned OFF. To turn off the defroster, press the rear window defroster button again. If there is heavy accumulation of snow on the rear window, brush it off before operating the rear defroster.

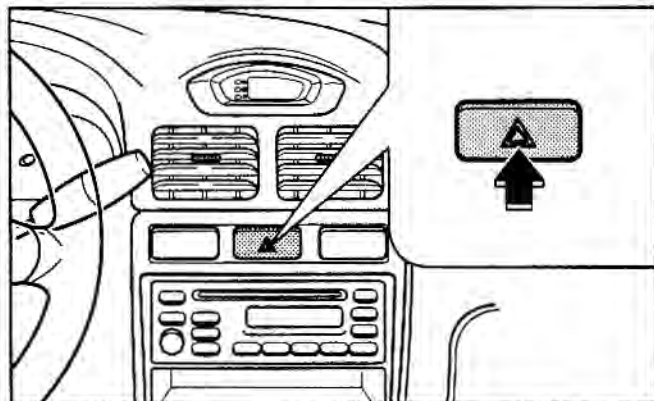
*** NOTICE**

To prevent damage to the conductors bonded to the inside surface of the rear window, never use sharp instruments or window cleaners containing abrasives to clean the window.

*** NOTICE**

To prevent the battery from being discharged, operate the defroster only while the engine is running.

Hazard Warning Flasher



1B3104014B

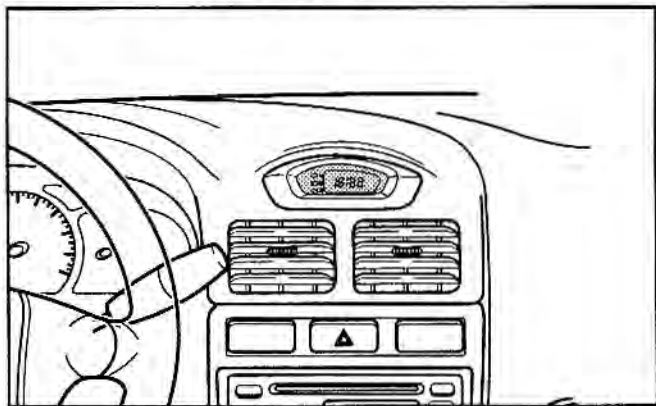
The hazard warning flasher causes the rear tail lights and front turn signal lights to flash on and off, which serves as a warning to other drivers to exercise caution when approaching or passing your vehicle.

To activate the flasher, depress the hazard warning flasher switch. This switch operates in any ignition switch position.

To turn the flashers off, depress the switch again.

Interior Features

Digital Clock (If Equipped)



1B3104013E

When the ignition switch is in the ACC or ON position, the clock buttons operate as follows:

HOUR “H”:

Pressing the “H” button with your finger, a pencil or similar object will advance the time displayed by one hour.

MINUTE “M”:

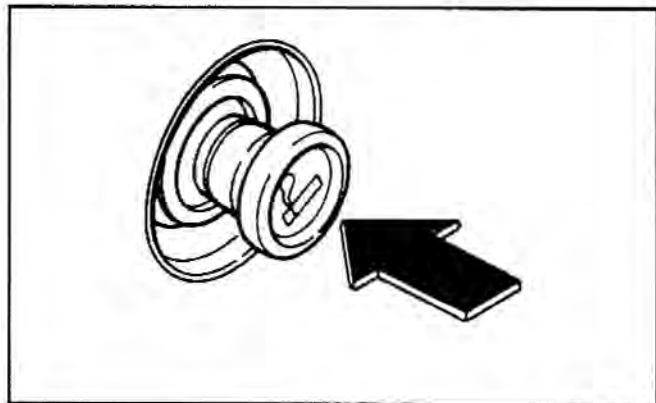
Pressing the “M” button with your finger, a pencil or similar object will advance the time displayed by one minute.

RESET “:R”:

To clear away minutes, press the “:R” button with your finger, a pencil or similar object. When you release the button, the clock will be set precisely on the hour.

For example, if the “:R” button is pressed while the time is between 9:01 and 9:29, the display will be reset to 9:00. If pressed while it is between 9:30 and 9:59, the display will be reset to 10:00.

Cigarette Lighter



1S2107021

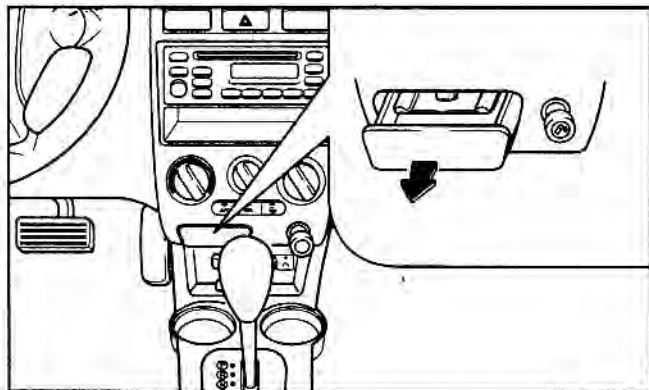
To operate the cigarette lighter, press it in and release it. When it is heated, it automatically pops out ready for use. If the engine is not running, the ignition switch must be in the ACC position for the lighter to operate.

* NOTICE

- Do not hold the lighter in because it will over-heat.
- Only a genuine Kia lighter should be used in the cigarette lighter socket. The use of plug-in accessories (shavers, hand-held vacuums and coffee pots, for example) may damage the socket or cause electrical failure.
- If the lighter does not pop out within 30 seconds, remove it to prevent overheating.

Driving Your Vehicle

Ashtray



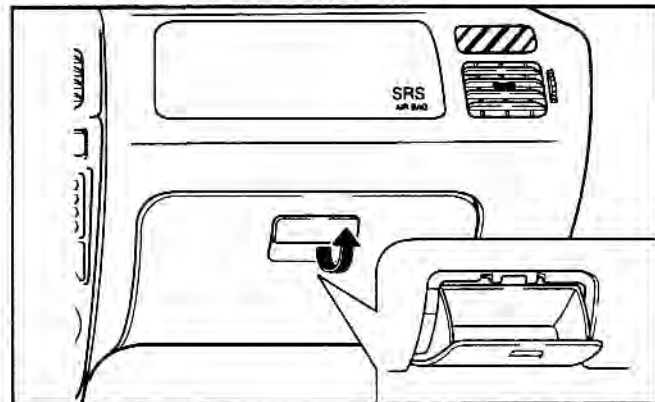
1B3104018E

To remove the ashtray, pull it out to the normal position, push down on the lock spring plate, and pull the ashtray out.

⚠ WARNING -Ashtray Use

- Do not use the vehicle's ashtrays as waste receptacles.
- Putting lit cigarettes or matches in an ashtray with other combustible materials may cause a fire.

Glove Box



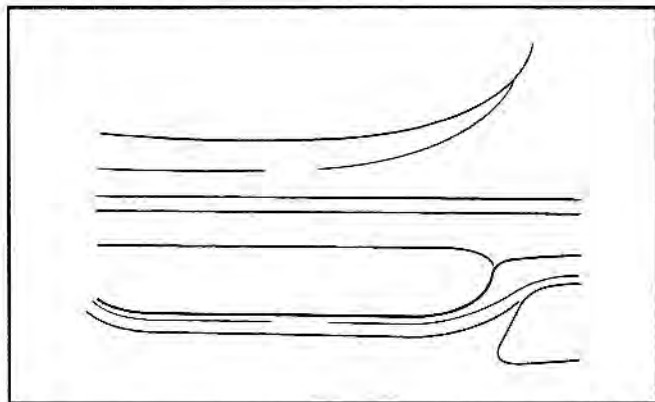
1B3104019B

To open the glove box door, pull the latch toward you.

⚠ CAUTION

To reduce the risk of injury in case of an accident or sudden stop, always keep the glove box door closed while driving.

Door Pocket



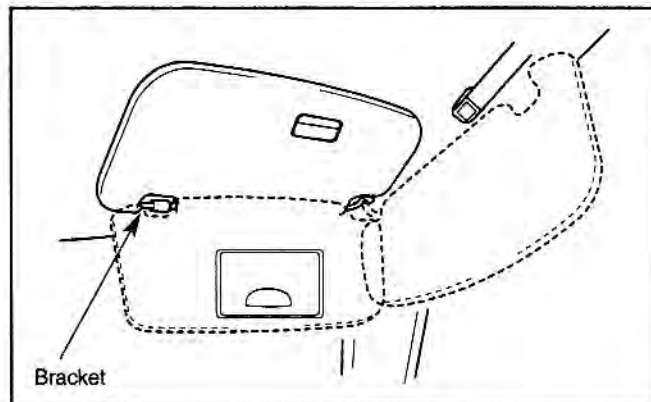
BN7B04039

Your front door pocket is a convenient place to store maps and small items.

Sunvisors

To use a sunvisor, pull it downward.

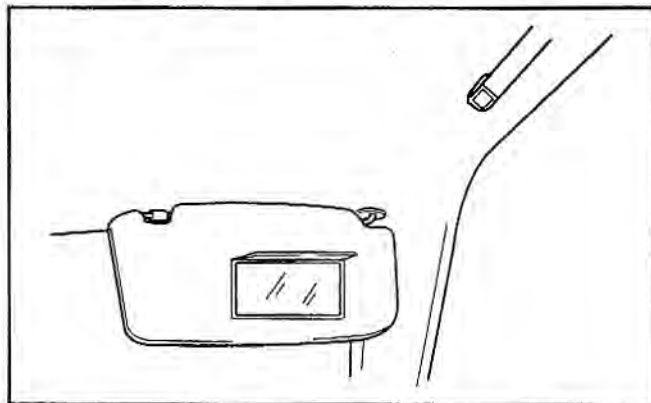
To use a sunvisor for a side window, pull it downward, unsnap it from the bracket and swing it to the side.



AS2B04033D

Vanity Mirror (If Equipped)

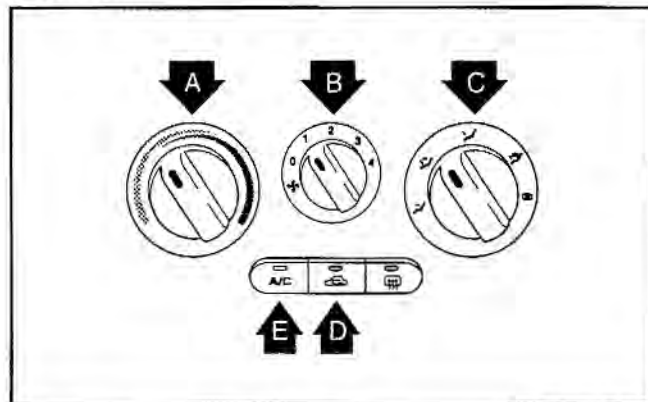
To use the vanity mirror, rotate the sunvisor downward, then pull up the mirror cover.



AS2B04034A

Climate Control System

Controls



1B3104016A

Temperature Control Knob

The temperature control knob (A) is the round knob closest to the driver's side of the climate control panel. To change the air temperature in the vehicle, turn the knob either clockwise for warm air or counterclockwise for cooler air.

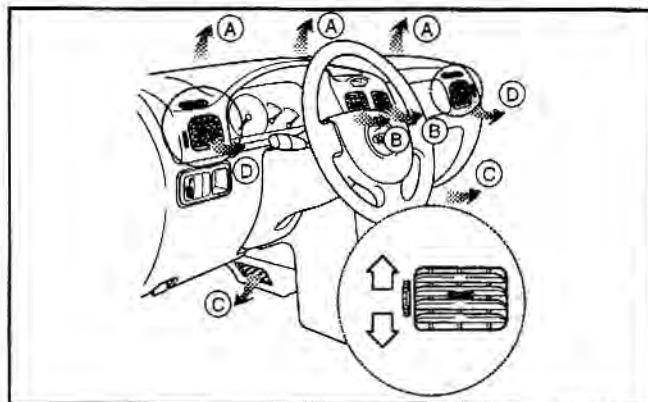
Fan Speed Control Knob

The fan speed control knob (B) is the center knob in the climate control panel. Four (4) adjustable fan speeds are provided; fan speed increases as the number on the knob increases. The ignition switch must be in the ON position for fan operation.

- OFF – Fan off
1 – Low speed
2 – Medium speed
3 – High speed
4 – Maximum speed

Mode Selection Knob

The mode selection knob (C) is the closest to the passenger's seat in the climate control panel. It controls the direction of air flow through the ventilation system.



1BC102004H

Face position



Air flow is directed toward the upper body and face. Additionally, each outlet can be controlled to direct the air discharged from the outlet. (outlet port: (B), (D))

Driving Your Vehicle

Face - floor position



Air flow is directed towards the face and the floor. The air to the floor is warmer than the air to the face (except when the temperature control is set to the extreme cold position).
(outlet port: ⑤, ③, ④)

Floor position



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.
(outlet port: ③, ④)

Floor - defrost position



Most of the air flow is directed to the floor and the windshield with a small amount directed to the side window defrosters.
(outlet port: ①, ③, ④)

When the floor-defrost position is selected the air-conditioning will be automatically turned on and outside (fresh) air mode will be selected. If you don't want the air-conditioning refer to "How to cancel forced air-conditioning operation in floor-defrost and defrost position" in windshield defrosting and defogging section.

Defrost position



Most of the air flow is directed to the windshield with a small amount of air directed to the side window defrosters.
(outlet port: ①, ④)

When the defrost position is selected the air-conditioning will be automatically turned on and outside (fresh) air mode will be selected.

If you don't want the air-conditioning refer to "How to cancel forced air-conditioning operation in floor-defrost and defrost position" in windshield defrosting and defogging section.

Air Flow Control Button



It is recommended that under normal conditions the outside (fresh) air position be selected.

Recirculated air position



If you press the air intake control button once (recirculate), almost all outside air flow into the vehicle is shut off, and air within the vehicle will be recirculated.

This position can be used temporarily for maximum heating or cooling (if equipped with an air conditioning) and to help prevent undesirable outside air flow into the vehicle.

CAUTION

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

WARNING

Don't sleep in a vehicle with air conditioning system or heating system on. It may cause serious harm or death to passengers due to a drop in the oxygen level and/or body temperature.

Outside (fresh) air position

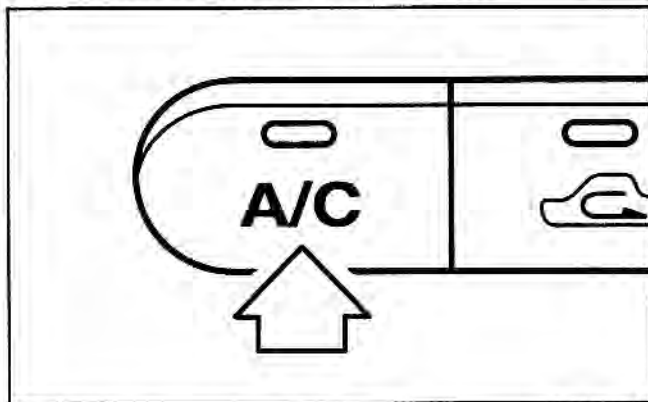


If you press the air intake control button again, the air position will be changed to outside (fresh) air and air will enter the ventilation system from outside the vehicle. Use this position for normal ventilation and heating.

Whenever you start the engine, the air flow control will be set at outside (fresh) air position. If you want the recirculated air position, press the corresponding button.

To cancel the forced outside (fresh) air position when the engine has started, refer to the canceling procedure in "Windshield Defrosting and Defogging" section.

Air Conditioning Switch (If Equipped)



1B3104017C

Depress the switch to turn the air conditioning system on. An indicator light in the switch will illuminate when the fan switch is ON indicating air conditioning system operation. Depress the switch again to turn the air conditioning system OFF.

System Operation

Ventilation

1. Set the mode selection knob to the  position.
2. Set the air intake control switch to the outside air position (switch indicator OFF).
3. Set the temperature control knob to the desired position.
4. Set the fan speed control knob to the desired speed.

Heating

1. Set the mode selection knob to the  position.
2. Set the air intake control switch to the recirculated air position.

CAUTION

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

3. Set the temperature control knob to the desired position.
 4. Set the fan speed control knob to the desired speed.
 5. If dehumidified heating is desired, turn the air conditioning system (if equipped) ON.
- *If cool air is desired at face level for bi-level operation, set the mode selection knob to the  position.*
 - *If the windshield fogs up, set the mode selection knob to the  position.*

Air Conditioning (If Equipped)

All Kia Air Conditioning Systems are filled with environmentally friendly R134a refrigerant which is not damaging to the ozone layer.

1. Start the engine. Depress the air conditioning switch.
 2. Set the mode selection knob to the  face position.
 3. Set the air intake control switch to the outside air or the recirculated air position (switch indicator ON).
 4. Set the temperature control knob to the desired position.
 5. Set the fan speed control knob to the desired speed.
 6. Adjust the fan speed control knob and temperature control knob to maintain maximum comfort.
- *If warmer air is desired at floor level for bi-level operation, set the mode selection knob to the  position and adjust the temperature control knob to maintain maximum comfort.*
 - *When maximum cooling is desired, set the temperature control knob to the extreme left position and set the air intake control switch to the recirculated air position, then set the fan speed control knob to the highest speed.*

* NOTICE

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

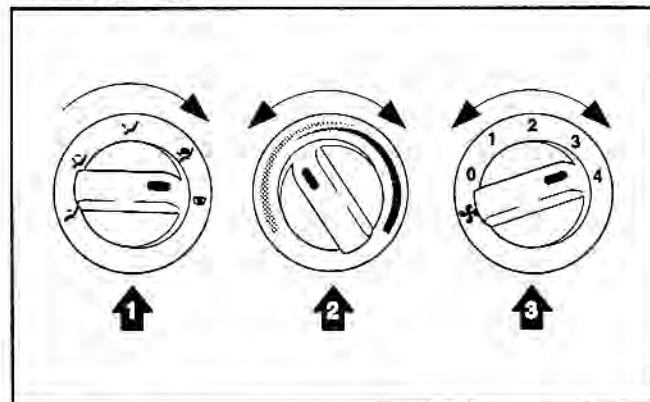
Air Conditioning System Operating Tips:

- If the vehicle has been parked in direct sunlight during hot weather, open the windows for a short time to let hot air inside the vehicle escape.
- To help reduce moisture on the inside of windows on rainy, humid days, decrease the humidity inside the vehicle by operating the air conditioning system.
- During air conditioning system operation, you may occasionally notice a slight change in engine speed at idle as the A/C compressor cycles ON. This is a normal system operating characteristic.
- Use the air conditioning system every month if only for a few minutes.

Driving Your Vehicle

- After air conditioning system use, you may notice clear water dripping (or even puddling) on the ground under the passenger side of the vehicle. This is a normal system operating characteristic.
- The air conditioning system includes a function that will automatically turn the A/C compressor OFF if engine coolant temperature approaches an overheating level. A/C compressor operation will resume once engine coolant temperature returns to the “normal” range. Also, the A/C compressor is automatically turned off for a few seconds when the accelerator is fully depressed.
- When operating the air conditioning system use the outside (fresh) air position.
- Operating the air conditioning system in the recirculated air position does provide maximum cooling, however, continual operation in this mode may cause the air inside the vehicle to become stale.

Windshield Defrosting and Defogging

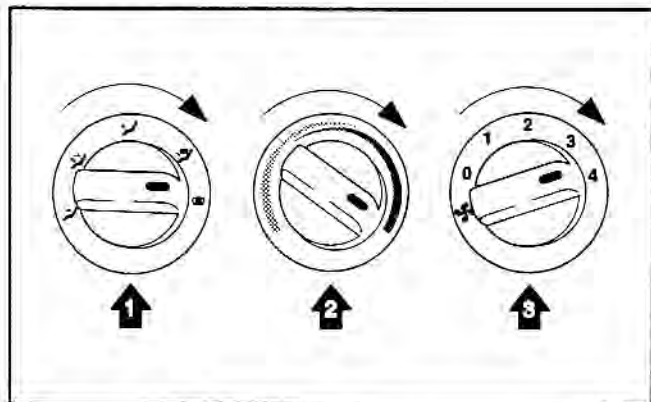


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To defog inside windshield

1. Set the mode selection knob to the  or  position. When you select  or  position, the system automatically turns on the A/C and outside (fresh) air mode.
2. Set the temperature control knob to the desired position.
3. Set the fan speed control knob to any desired speed except “O”. For maximum defogging, set the fan speed control knob to the “3” or “4” position.

To defrost outside windshield



1. Set the mode selection knob to the position. When you select position, the system automatically turns on the A/C and outside (fresh) air mode.
2. Set the temperature control knob to the extreme right/hot position
3. Set the fan speed control knob to the "3" or "4" position.

- For maximum defrosting, set the temperature control knob to the extreme right/hot position and the fan speed control knob to the highest speed.
- If warm air to the floor is desired while defrosting or defogging, set the mode selection knob to the 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 the air inlet in the cowl grille to improve heater and defroster efficiency and to reduce the probability of fogging on the inside of the windshield.

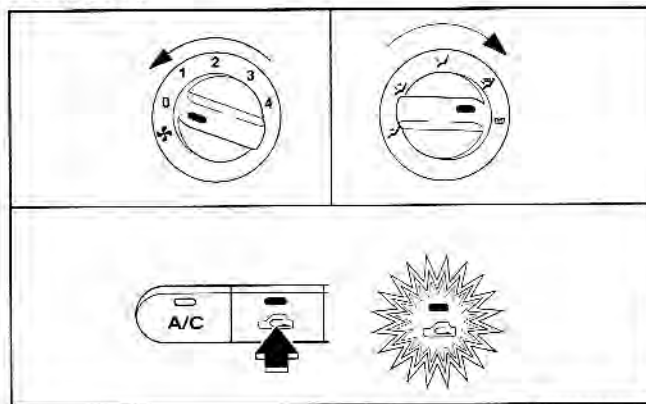
WARNING

Do not use the  or  position during cool 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 to the  position and fan speed control knob to the lower speed.

* NOTICE

If you don't want air-conditioning or outside (fresh) air when operating in either of these modes, pressing the air-conditioning switch or air intake control switch again will deactivate the air-conditioning or outside (fresh) air mode.

How to cancel automatic air-conditioning operation and the outside (fresh) air position in the Floor-Defrost and Defrost position (If equipped):



1B3104016H-3

When you select the Floor-Defrost or Defrost position, the system automatically turns on the air-conditioning system and the outside (fresh) air position will be selected.

If you don't want air-conditioning and the outside (fresh) air position when operating in either of these modes, you can turn off the air-conditioning system operation by performing the following:

1. Make sure the engine is running or the ignition switch is in the ON position.
2. Turn the fan speed control knob to the "0" position.
3. Turn the mode selection knob to the defrost () position.
4. Push the air intake control button () at least 5 times within 3 seconds.
5. Then the indicator light on the air intake control button () will blink 3 times with 0.5 second intervals between blinks.

If you want to return to the automatic air conditioning system and outside (fresh) air position, repeat the procedure above.

DRIVING TIPS

Fuel Requirements	5-2
Emission Control System	5-3
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Fuel Requirements

Your new Kia Vehicle must use only **UNLEADED FUEL** having an octane rating of 87 or higher. Your new Kia is designed to obtain maximum performance with unleaded fuel. Unleaded fuel will minimize exhaust emissions and spark plug fouling.

* NOTICE

NEVER USE LEADED FUEL. The use of leaded fuel is detrimental to the catalytic converter.

Never add any fuel system cleaning agents to the fuel tank other than what Kia has specified or the equivalent. (Consult an Authorized Kia Dealer for details.)

Leaded fuel will damage the engine control system's oxygen sensor and affect the emission control system.

Gasoline Containing Ethanol and Methanol

Gasohol is a mixture of gasoline and ethanol (also known as grain alcohol), or gasoline and methanol (also known as wood alcohol). Do not use gasohol containing more than 10% ethanol; do not use gasohol containing any methanol whatsoever.

Methanol (also known as wood alcohol) is a mixture of gasoline and methanol marketed as gasohol. Do not use gasoline or gasohol containing methanol.

Either of these fuels may cause driveability problems and damage to the fuel system.

Discontinue using gasohol of any kind if driveability problems occur.

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

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

* NOTICE

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

Emission Control System

The vehicle emission control system is covered by a written limited warranty. Please see the warranty information contained in the Warranty & Consumer Information Manual in your vehicle.

Vehicle Modifications

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

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

Engine Exhaust Gas Precautions (Carbon Monoxide)

Engine exhaust gases contain carbon monoxide. Though colorless and odorless, it is dangerous and could be lethal, if inhaled.

- Carbon monoxide can be present with other exhaust fumes. Therefore, if you smell exhaust fumes of any kind inside your vehicle, have it inspected and repaired immediately by an Authorized Kia Dealer. If at all possible, do not drive with exhaust fumes present. If you must, do so only with all windows fully open. Have your vehicle checked and repaired immediately.
- Do not operate the engine in confined or closed areas (such as garages) any more than what is necessary to move the vehicle in or out of the area.
- When the vehicle is stopped in an open area for more than a short time with the engine running, adjust the ventilation system to draw outside air into the vehicle. Turn the engine off if you smell any exhaust fumes.
- Never sit in a parked or stopped vehicle for an extended time with the engine running.

Operating Precautions for Catalytic Converters

Your vehicle is equipped with a catalytic converter emission control device.

Therefore, the following precautions must be observed:

- Use only UNLEADED FUEL.
- Do not park the vehicle over or near flammable objects, such as dry grass, paper, leaves, etc. Under certain conditions, they could be ignited by a hot exhaust system.
- Do not operate the vehicle when there are signs of engine malfunction, such as misfire or a noticeable loss of performance.
- Do not misuse or abuse the engine. Examples of misuse are coasting with the ignition off and descending steep grades in gear with the ignition off.
- Do not operate the engine at high idle speed for extended periods (5 minutes or more).

- Do not modify or tamper with any part of the engine or emission control system. All inspections and adjustments must be made by a qualified technician.

Failure to observe the above precautions could result in damage to the catalytic converter and to your vehicle and could void your warranties.

Before Driving

Before entering vehicle:

- Be sure that all windows, outside mirror(s), and outside lights are clean.
- Check the condition of the tires.
- Check under the vehicle for any sign of leaks.
- Be sure there are no obstacles behind you if you intend to back up.

Necessary Inspections

Fluid levels, such as engine oil, engine coolant, brake/clutch fluid, and washer fluid should be checked on a regular basis, with the exact interval depending on the fluid. Further details are provided in Maintenance, Section 7.

Before Starting

- Close and lock all doors.
- Position the seat so that all controls are easily reached.
- Adjust the inside and outside rearview mirrors.
- Be sure that all lights work.
- Check all gauges.
- Check the operation of warning lights when the ignition switch is turned to the ON position.
- Release the parking brake and make sure the brake warning light goes out.

For safe operation, be sure you are familiar with your vehicle and its equipment.

Drunk Driving

Drinking and driving is dangerous. Drunk driving is the number one contributor to the highway death toll each year. Alcohol impairs a driver's judgment, vision and muscular coordination. Even a small amount of alcohol will affect a driver's reflexes, perceptions and judgment.

Please don't drink and drive, or ride with a driver who has been drinking. Choose a designated driver if you're with a group, or if you're alone, call a cab.

Drugs and Driving

Driving while under the influence of drugs is as dangerous or more dangerous than driving under the influence of alcohol, depending on the drug(s) used and the quantity consumed. Don't take drugs and drive.

If you are taking a prescription medicine, check with your doctor or pharmacist regarding whether you may operate a motor vehicle.

Suggestions for Economical Operation

Your vehicle's fuel economy is mainly dependent on your style of driving, how you drive, where you drive and when you drive.

Each of these factors has an effect on how many miles (kilometers) you can get from a gallon (liter) of fuel. To operate your vehicle as economically as possible, use the following driving suggestions to help save money in both fuel and repairs:

- Avoid lengthy warm-up idling. Once the engine is running smoothly, begin driving. Remember, though, that on cold days, engine warm-up may take a little longer.
- Save fuel by accelerating slowly after stopping.
- Keep the engine in tune and follow the recommended periodic maintenance schedule. This will increase the life of all parts and lower your operating costs.
- Do not use the air conditioner unnecessarily.
- Slow down when driving on rough roads.
- For longer tire life and better fuel economy, always keep the tires inflated to the recommended pressures.
- Maintain a safe distance from other vehicles to avoid sudden stops. This will reduce wear on brake linings and pads and save fuel because extra fuel is required to accelerate back to driving speed.
- Do not carry unnecessary weight in the vehicle.
- Do not rest your foot on the brake pedal while driving. This can cause needless wear, possible damage to the brakes, and poor fuel economy.
- Improper wheel alignment causes the tires to roll at excessive angles, which results in faster tire wear. It takes more power to overcome this improper alignment, which wastes fuel.
- Open windows at high speeds can reduce fuel economy.
- Crosswinds and headwinds reduce fuel economy. 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 - Engine OFF Motion**

Never turn the engine OFF to coast down hills or anytime the vehicle is in motion. The power steering and power brakes will not function without the engine running. Instead, downshift to any appropriate gear for engine braking effect.

Special Driving Conditions

Hazardous Driving

When hazardous driving is encountered because of water, snow, ice, mud, sand, or similar hazard, follow these suggestions:

- Drive cautiously and allow extra distance for braking.
- Avoid sudden movements in braking or steering.
- When braking in vehicles without anti-lock brakes, depress the brake pedal with a controlled up-and-down motion until the vehicle is stopped.

*** NOTICE**

Do not pump the brake pedal on ABS equipped vehicle.

Driving Tips

- When starting from a stop in snow, mud, or sand, use second gear and accelerate slowly to avoid spinning the front wheels. Low gear may be used, if necessary.
- Use sand, rock salt, tire chains, or other non-slip material under the front wheels to provide traction when stalled on ice, snow, or mud.

WARNING - Downshifting

Downshifting into first gear with a manual transaxle or into low with an automatic transaxle while driving on slippery surfaces can cause an accident. The sudden change in tire speed could cause the tires to skid. Be careful when downshifting on slippery surfaces.

Rocking the Vehicle

If it is necessary to rock the vehicle to free it from snow, sand, or mud, move the shift lever of an automatic transaxle from D (Drive) to R (Reverse) in a repeat pattern while depressing the accelerator gently. With a manual transaxle, move the shift lever back and forth from 1 (First) to R (Reverse).

Do not race the engine. If you are still stuck after a couple minutes of rocking, have the vehicle pulled out by a tow vehicle to avoid engine overheating and possible damage to the transaxle.

NOTICE

Prolonged rocking may cause engine overheating, transaxle damage or failure, and tire damage.

WARNING - Spinning Tires

Do not spin the wheels especially at speeds more than 56 km/h (35 mph). Spinning the wheels at high speeds when the vehicle is stationary could cause a tire to overheat, explode and injure bystanders.

Driving at Night

Because night driving presents many 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 rural 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. Dirty or misaimed headlights will make it much more difficult to see at night.
- Avoid staring directly at the headlights of oncoming vehicles. You could be temporarily blinded and it will take several seconds for your eyes to readjust to the darkness.

Driving in the Rain

Rain and wet roads can make driving dangerous, especially if you're not prepared for the slick pavement. Here are a few things to consider when driving in the rain:

- Be sure your windshield wipers are in good condition.
- A heavy rainfall will make it harder to see and will increase the distance needed to stop your vehicle, so slow down.
- If your tires aren't in good condition, making a quick stop on wet pavement can cause a skid and possibly lead to an accident. Be sure your tires and windshield wipers 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.

Winter Driving

- We recommend that you carry emergency equipment. Some things you might include are tire chains, a window scraper, windshield de-icer, a bag of sand or salt, flares, a small shovel and jumper cables.
- Make sure you have sufficient ethylene glycol coolant in the radiator.
- Check the battery condition and cables. Cold temperatures reduce the capacity of any battery, so it must be in top shape to provide enough winter starting power.
- Make sure the engine oil viscosity is suitable for cold weather.
- Check the ignition system for loose connections and damage.
- Use antifreeze-formulated windshield washer fluid and make sure you have sufficient fluid for your trip. (Do not use engine coolant antifreeze.)
- Do not use the parking brake if it might freeze. This is most likely to happen after driving in slushy or wet conditions and temperatures drop into the freezing range. When parking, shift to P (Park) with automatic transaxle, or to 1 (First) or R (Reverse) with a manual transaxle and block the rear wheels.

Snow Tires

When snow tires are used, select the size and construction specified on the Tire Pressure Label. It is strongly recommended that snow tires be used on all four wheels, or poor handling may result. Snow tires should not be operated at speeds exceeding 75 mph (120 km/h).

These tires should be inflated 4 psi (28 kPa, 0.3 kg/cm²) above the recommended pressures shown on the Tire Specification/Pressure Label, but inflation should never exceed the maximum cold-tire pressure shown on the tire sidewalls.

WARNING - Snow Tire Size

Snow tires should be equivalent in size and type to the vehicle's standard tires. Otherwise, the safety and handling of your vehicle may be adversely affected.

Do not install studded tires without first checking local, provincial and municipal regulations for possible restrictions against their use.

Tire Chains

Tire Chain Selection

Regulations regarding the use of tire chains vary according to location or type of road, so always check them before installing chains.

Use only SAE Class "S" tire chains. Chains must be the proper size for the vehicle, as recommended by the chain manufacturer.

Chain Installation

When installing chains on your tires, carefully follow the instructions of the chain manufacturer.

The chain bands will scratch the wheel covers. Remove the covers before installing the chains.

WARNING - Tire Chains

- The use of chains may adversely affect vehicle handling.
- Do not exceed 50 km/h (30 mph) or the chain manufacturer's recommended speed limit, whichever is lower.
- Drive carefully and avoid bumps, holes, sharp turns and other road hazards, which may cause the vehicle to bounce.
- Avoid sharp turns or locked-wheel braking.
- Do not attempt to use a tire chain on the temporary spare tire because it may impair vehicle handling and result in damage to the vehicle and the tire.

Driving Tips

Install the chains on the front tires as tightly as possible. The use of chains on the rear tires is not recommended. Retighten the chains after driving 0.5-1.0 km (1/4-1/2 mile).

Driving in Flooded Areas

Avoid driving through flooded areas unless you are sure the water is no higher than the bottom of the wheel rims. 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.

Trailer Towing

We do not recommend using this vehicle for trailer towing.

Overloading

CAUTION

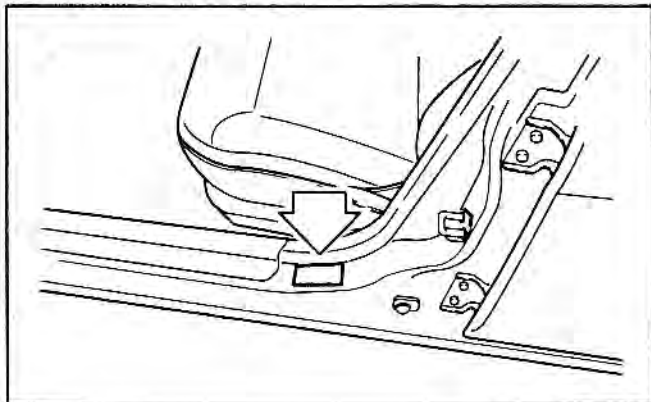
The gross axle weight rating (GAWR) and the gross vehicle weight (GVW) for your vehicle are on the manufacturer's label attached to the driver's door or are listed in the "Specifications" section of this Owner's Manual. Exceeding these ratings can cause an accident or vehicle damage. You can calculate the weight of your load by weighing the items (or people) before putting them in the vehicle. Be careful not to overload your vehicle.

Label Information

There are several important labels and identification numbers located on your vehicle. The label locations are identified in the illustrations on the following pages.

Driving Tips

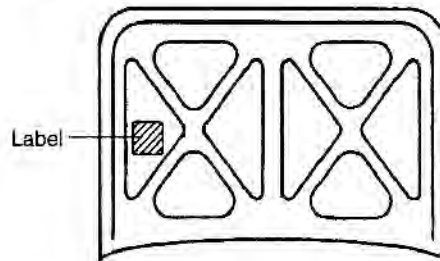
Vehicle Certification Label



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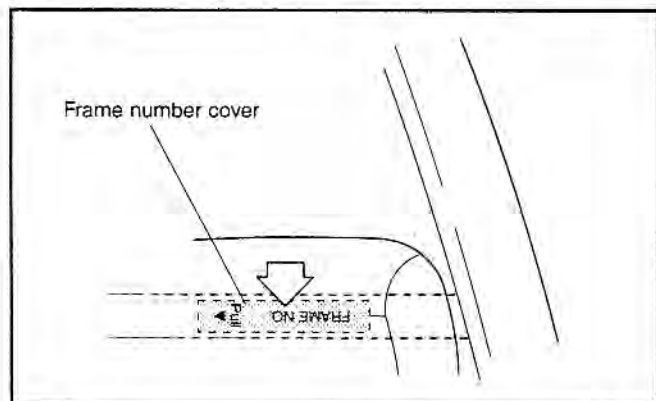
Vehicle Emission Control Information and Vacuum Hose Routing Diagram

Underside of hood



AS2B05003A

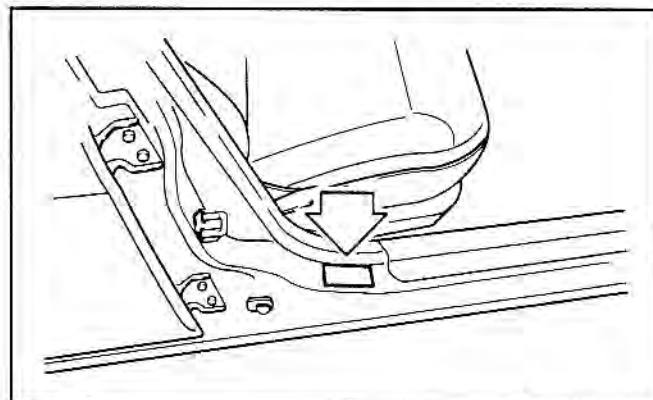
Chassis Number(Frame number)



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Frame Number is located under the front passenger seat. Please detach the plastic cover to see the frame number.

Tire Specification/Pressure Label



AS2B05005

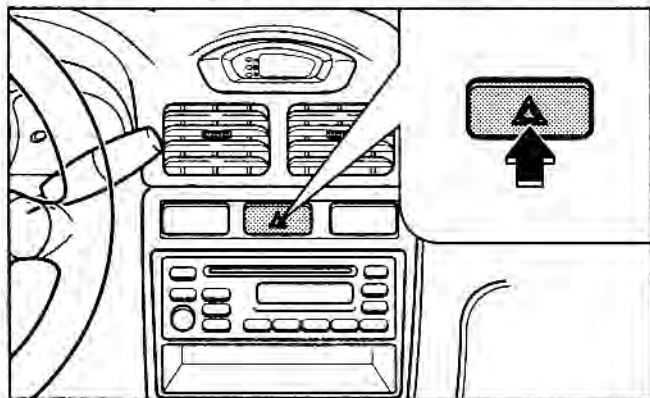
IN CASE OF AN EMERGENCY

Road Warning	6-2
Overheating	6-2
Emergency Starting	6-4
Connection Jumper Cables	6-5
Electrical Circuit Protection	6-7
Towing	6-14
If You Have a Flat Tire	6-16

In Case Of An Emergency

Road Warning

Hazard Warning Flasher



1B3104014B

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. All turn signal lights will flash simultaneously.

- *The hazard warning flasher will operate whether your vehicle is running or not.*
- *The turn signals do not operate when the hazard flasher is ON.*
- *Care must be taken when using the hazard warning flasher while the vehicle is being towed. Local regulations may prohibit using it in this manner.*

Overheating

If your temperature gauge indicates overheating, if you experience a loss of power, or if you hear a loud knocking or pinging noise, the engine has probably overheated. You should follow these procedures if you experience any of these symptoms.

1. Turn the hazard warning flasher ON, then drive to the nearest safe location and stop your vehicle; set the automatic transaxle in P (Park), or shift the manual transaxle to neutral and apply the parking brake.

2. Make sure the air conditioner is off.
3. If coolant or steam is boiling out of the radiator, stop the engine, then turn the ignition switch to the ON position. Do not restart the engine. The radiator cooling fan will automatically operate with the ignition switch in the ON position. If the cooling fan does not operate, call an Authorized Kia Dealer for assistance.

If coolant is not boiling out, allow the engine to idle and open the hood to permit the engine to cool gradually.

If the temperature does not go down with the engine idling, stop the engine and allow sufficient time for it to cool.

4. The coolant level should then be checked. If the level in the reservoir is low, look for leaks at the radiator hoses and connections, heater hoses and connections, radiator, and water pump. If you find a major leak or another problem that may have caused the engine to overheat, do not operate the engine until the problem has been corrected. Call an Authorized Kia Dealer for assistance.

If you do not find a leak or other problem, carefully add coolant to the reservoir.

** WARNING - Removing Radiator Cap**

Do not remove the radiator cap when the engine and radiator are hot. Scalding hot coolant and steam may blow out under pressure. This could cause serious injury.

If the engine frequently overheats, have the cooling system checked and repaired.

In Case Of An Emergency

Emergency Starting

Jump Starting

Jump starting can be dangerous if done incorrectly. Therefore, to avoid harm to yourself or damage to your vehicle or battery, follow the jump starting procedures on the next page. If in doubt, we strongly recommend that you have a competent technician or towing service jump start your vehicle.

*** NOTICE**

Use only a 12volt jumper system. You can damage a 12volt starting motor, ignition system, and other electrical parts by using a 24-volt power supply (two 12-volt batteries in series or a 24-volt motor generator set).

⚠ WARNING - Battery

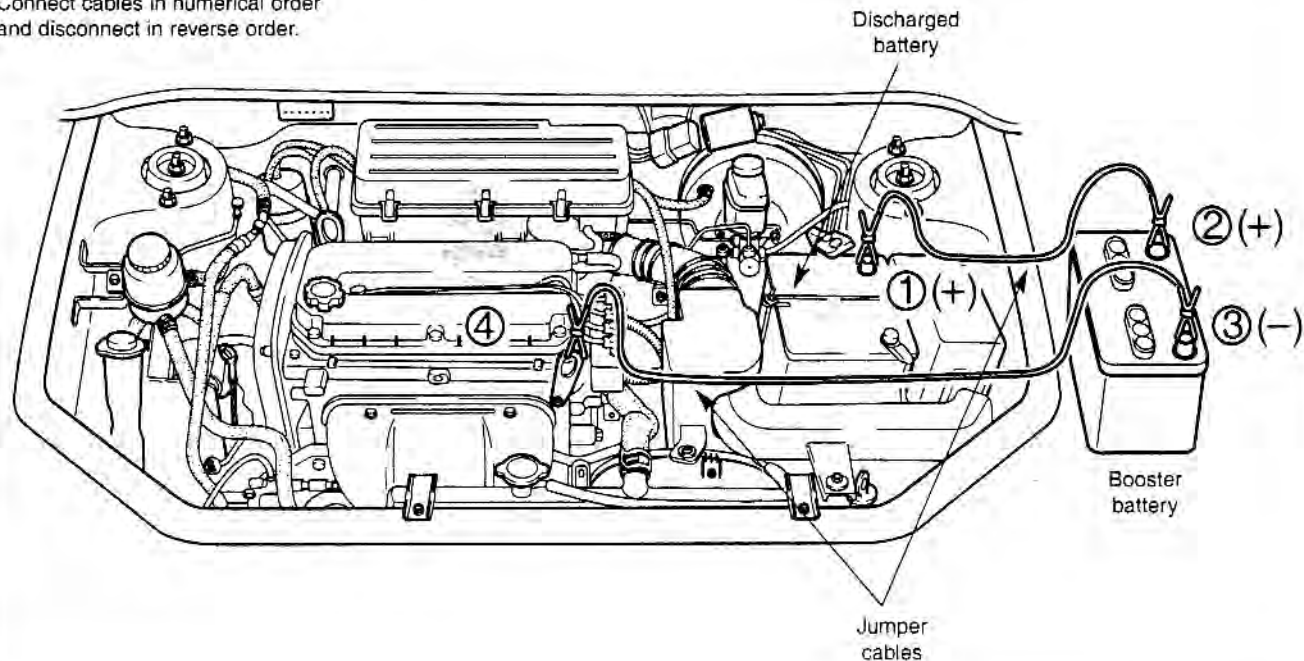
- **Keep all flames or sparks away from the battery. The battery produces hydrogen gas which may explode if exposed to flame or sparks.**
- **Do not attempt to jump start vehicle if the discharged battery is frozen or if the electrolyte level is low; the battery may rupture or explode.**

Jump Starting Procedure

1. Make sure the booster battery is 12 volts and that its negative terminal is grounded.
2. Check the electrolyte level of each of the battery cells.
3. If the booster battery is in another vehicle, do not allow the vehicles to touch.

Connection Jumper Cables

Connect cables in numerical order
and disconnect in reverse order.



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In Case Of An Emergency

4. Turn off all unnecessary electrical loads.
5. Connect the jumper cables in the exact sequence shown in the illustration on the previous page. First, connect one end of a jumper cable to the positive terminal (+) of the discharged battery ①, then the other end of the same cable to the positive terminal (+) on the booster battery ②. Next, connect one end of the other jumper cable to the negative terminal (-) of the booster battery ③, then the other end to a solid, stationary, metallic point (for example, the engine lifting bracket) ④ away from the battery. Do not connect the jumper cable to or near any part that moves when the engine is cranked. Do not connect the jumper cable from the negative terminal (-) of the booster battery to the negative terminal (-) of the discharged battery. 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.

6. Start the engine of the vehicle with the booster battery and run it at 2,000 rpm. Then, start the engine of the vehicle with the discharged battery.

If the cause of your battery discharging is not apparent (for example, having left the lights on accidentally), you should have your vehicle checked by an Authorized Kia Dealer.

Push-Starting

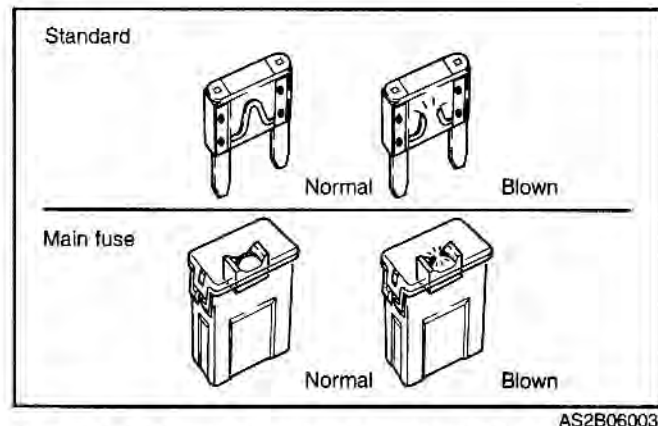
A vehicle equipped with an automatic transaxle cannot be started by pushing. A vehicle equipped with a manual transaxle should not be push-started because it could damage the emission control system. Follow the directions for jump starting.

CAUTION

Never tow a vehicle to start it. A sudden surge forward when the engine starts could cause a collision with the tow vehicle.

Electrical Circuit Protection

Fuses



A vehicle's electrical system is protected from electrical overload damage by fuses.

This vehicle has two fuse panels, one located in the driver's side kick panel, the other in the engine compartment near the battery. A fuse panel chart is provided later in this section.

If any of your vehicle's lights, accessories, or controls do not work, check the appropriate circuit fuse. If a fuse has blown, the element inside the fuse will be melted.

Always replace a blown fuse with one of the same rating.

If the replacement fuse blows out, this indicates an electrical problem. Avoid using the system involved and immediately consult an Authorized Kia Dealer.

Two kinds of fuses are used: standard for lower amperage rating, and main for higher amperage ratings.

In Case Of An Emergency

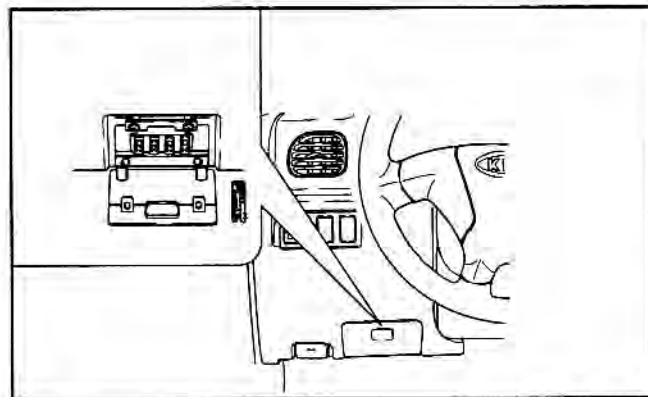
Fuse Replacement

⚠ WARNING -Fuse Replacement

- Never replace a fuse with anything but another fuse of the same type and rating.
- A higher capacity fuse could cause damage and possibly a fire.
- Never install a wire in place of the proper fuse - even as a temporary repair. It may cause extensive wiring damage and possibly a fire.
- Do not use a screwdriver or any other metal object to remove fuses because it may cause a short circuit and damage the system.

If the electrical system does not work, first check the driver's side fuse panel.

1. Turn the ignition switch and all other switches off.
2. Pull the suspected fuse straight out. Use the removal tool provided on the main fuse box in the engine compartment. Refer to the fuse panel chart on the fuse panel cover to identify the likely problem fuse or electrical circuit.



1B3106003

3. Check the removed fuse; replace if it is blown. *Spare fuses are provided in the passenger compartment fuse panel, and in the engine compartment fuse panel cover.*
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.

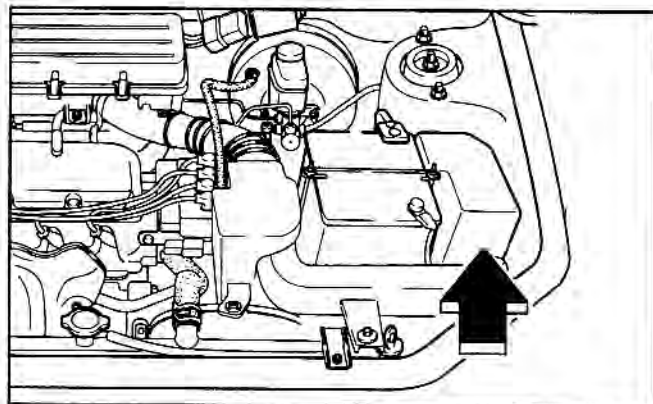
If you do not have a spare, use a fuse of the same rating from a circuit you may not need for operating the vehicle, such as the CIGAR or AUDIO fuse.

If the headlights or other electrical components do not work and the fuses are OK, check the fuse box in the engine compartment. If a fuse is blown, it must be replaced.

1. Turn the ignition switch and all other switches off.
2. Remove the fuse box cover by unhooking the tab on one end, and tilting the cover back toward the other end.
3. Check the fuses. If one is blown, replace it with a new one of the same rating.

CAUTION

After checking the fuse box in the engine compartment, make sure the cover is properly reinstalled. An improperly installed cover could allow water ingress and lead to electrical failures.



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In Case Of An Emergency

Fuse Panel Description

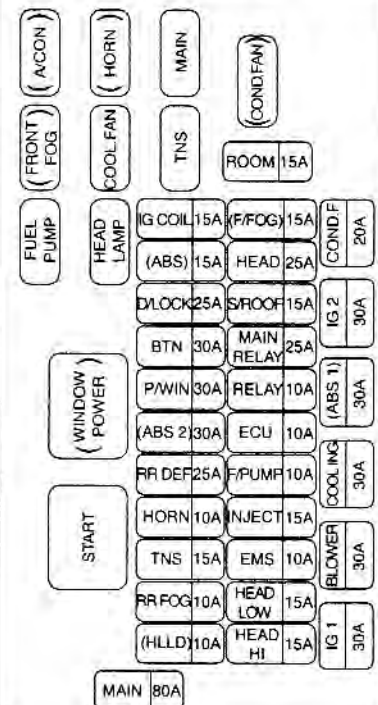
Driver's side kick panel

ILLUMI 10A	MIRROR DEF 10A	TAIL (RH) 10A	WIPER (FRT) 15A	USE THE DESIGNATED FUSE ONLY.
START 10A	POWER SOCKET 15A	TAIL (LH) 10A	WIPER (RR) 15A	
(A/BAG 10A)	HAZARD 10A	CIGAR 15A	(WARMER) 15A	REFER TO OWNER'S MANUAL FOR FUSE SERVICE.
METER 10A	STOP 15A	AUDIO 10A	TURN LAMP 10A	(): OPTION.

DESCRIPTION	FUSE RATING	PROTECTED COMPONENT
Drive's side kick panel		
(A/BAG)	10A	Airbag
TURN LAMP	10A	Turn signal lamp
METER	10A	Meterset, Backup lamp, Warning sound
ILLUMI	10A	Illumination
POWER SOCKET	15A	Trunk room lamp, Power socket
HAZARD	10A	Hazard lamp
STOP	15A	Stop lamp, ABS
TAIL(RH)	10A	Tail lamp (Right-Rear/Left-Front), Switch illumination
TAIL(LH)	10A	Tail lamp (Left-Rear/Right-Front)
CIGAR	15A	Cigarette lighter
AUDIO	10A	Audio, Electric rearview mirror
WIPER(FRT)	15A	Wiper(front), Washer(front), Sunroof
WIPER(RR)	15A	Wiper(Rear), Washer(Rear)
(WARMER)	15A	Seatwarmer
MIRROR DEF	10A	Mirror defroster
START	10A	Engine control unit, ECAT unit
*():Optional		

Engine compartment

- * USE THE DESIGNATED FUSE AND RELAY ONLY
- * REFER TO OWNER'S MANUAL FOR FUSE AND RELAY SERVICE
- * () : OPTION

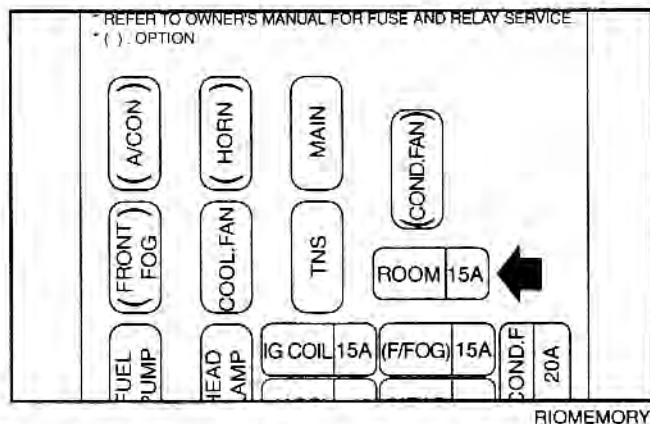


DESCRIPTION	FUSE RATING	PROTECTED COMPONENT
Engine Compartment		
(ABS)	15A	ABS
RR FOG	10A	Rear fog light (if equipped)
(F/FOG)	15A	Front fog light (if equipped)
MAIN	80A	Battery is not rechargeable
IG 1	30A	(It will be automatically connect ed to the secondary fuse.) CIGAR 10A, AUDIO 10A, IG COIL 15A, TURN LAMP 10A, A/BAG 10A, WIPER(RR) 15A, WIPER(FRT) 15A, RELAY 10A, START 10A
BLOWER	30A	Heater
COOLING	30A	Cooling fan
(ABS 1)	30A	ABS
COND. FAN	20A	Condenser fan
HEAD-HI	15A	Head lamp high
HEAD-LOW	15A	Head lamp low
EMS	10A	Engine sensors
INJECTOR	15A	Injector, O ₂ sensor
F/PUMP	10A	Fuel pump
ECU	10A	Engine control unit, ECAT unit, Main relay
RELAY	10A	Blower motor, Power window, Rear window defroster, Head lamp(Airbag equipped vehicle)
(HLLD)	10A	-
*():Optional		

In Case Of An Emergency

DESCRIPTION	FUSE RATING	PROTECTED COMPONENT
Engine compartment (continued)		
MAIN RELAY	25A	(It will be automatically connected to the secondary fuse.) EMS 10A, INJECTOR 15A, F/PUMP 10A, ECU 10A
S/ROOF	15A	Sunroof
HEAD	25A	(It will be automatically connected to the secondary fuse.) HEAD-HI 15A, HEAD-LOW 15A, FOG LAMP(RR) 10A
IG 2	30A	
TNS	15A	(It will be automatically connected to the secondary fuse.) TAIL (LH) 10A, TAIL(RH) 10A
HORN	10A	Horn
RR DEF	25A	Rear window defroster
(ABS 2)	20A	ABS
P/WIN	30A	Power window
BTN	30A	(It will be automatically connected to the secondary fuse.) MEMORY/ROOM 10A, STOP 15A, HAZARD 15A
D/LOCK	25A	Power door lock
IG COIL	15A	Ignition coil
ROOM	15A	Room LAMP, Audio, Meterset, Warning sound
*(): Optional		

Memory Fuse (If Equipped)



Your vehicle is equipped with a "Memory Fuse" to prevent battery discharge if the vehicle is parked for prolonged periods without being operated. Use the following procedures before parking the vehicle for a prolonged period.

1. Turn off the engine.
2. Turn off the headlights and tail lights.
3. Open the main fuse box cover in the engine compartment and pull up the "ROOM FUSE 15A" using the fuse puller; push the fuse to the side. This will change the MEMORY FUSE mode to prevent battery discharge.

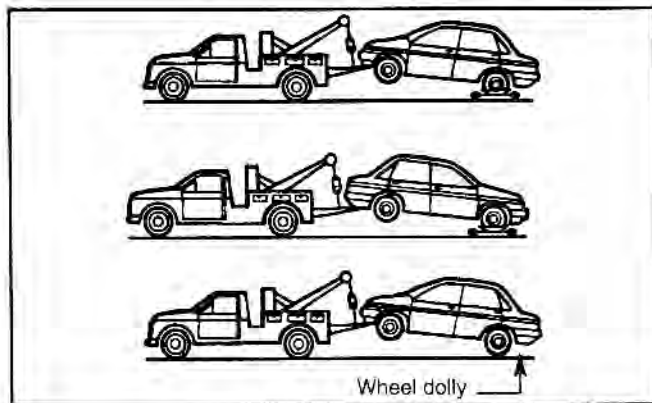
CAUTION

- If the memory fuse is pulled up from the fuse box housing, the radio and dome light will not operate. After reinstalling the "Memory Fuse", the radio "anti-theft" code (Optional) must be entered again and the preset radio stations must be reselected.
- Even though the memory fuse is pulled up, the battery can still be discharged by operation of the headlights or other electrical devices.

In Case Of An Emergency

Towing

If emergency towing is necessary, we recommend having it done by an Authorized Kia Dealer or a competent tow-truck service. Proper lifting and towing procedures are necessary to prevent damage to the vehicle. Provincial and local laws applicable to towing vehicles must be followed.

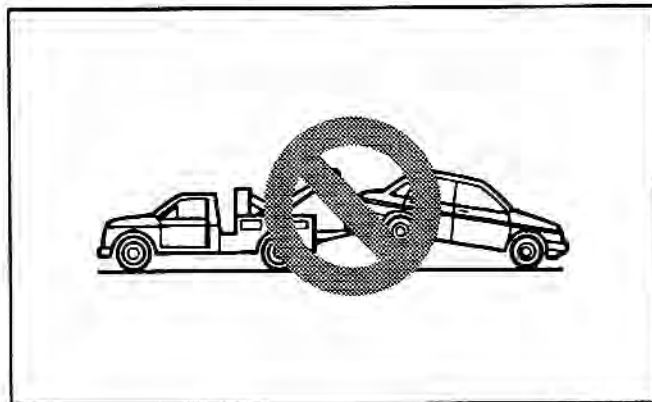


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As a general rule, towed vehicles should be pulled with the driving wheels off the ground. If excessive damage or other conditions prevent towing the vehicle with the driving wheels off the ground, use wheel dollies.

With either an automatic or manual transaxle:

1. Set the ignition switch in the ACC position;
2. Place the shift lever in N (Neutral);
3. Release the parking brake.



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* NOTICE

Do not tow the vehicle backward with the front wheels on the ground. This may cause internal damage to the transaxle.

* NOTICE

Do not tow with sling-type equipment. Use wheel lift or flatbed equipment.

CAUTION

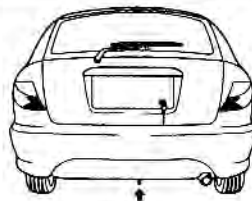
Do not use the hooks under the front or rear of the vehicle for towing purposes. These hooks are designed ONLY for transport tie-down. If the tie-down hooks are used for towing, the front/rear bumper will be damaged and the vehicle may break free from the tow vehicle.

Tie-Down Hooks (for flatbed towing)

Front



Rear



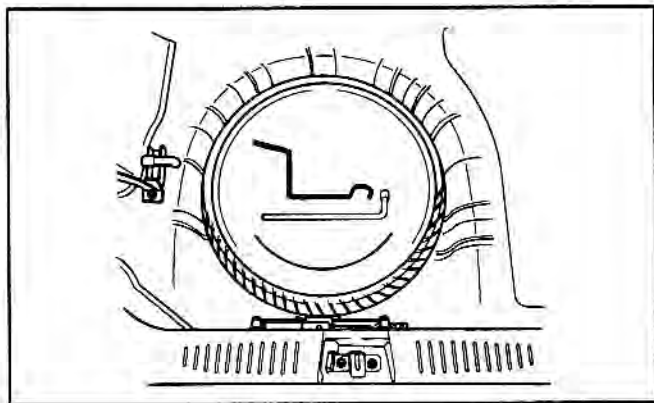
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In Case Of An Emergency

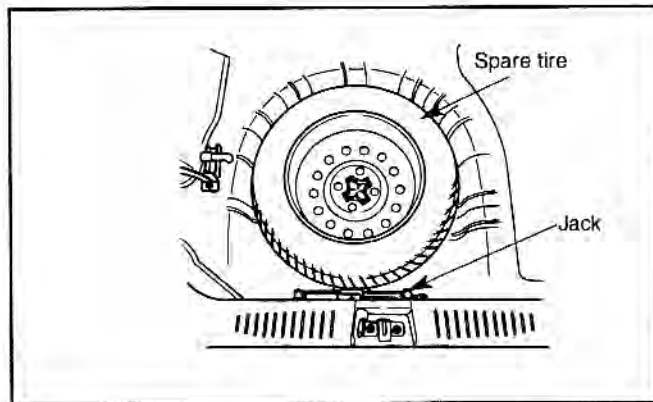
If You Have a Flat Tire

Storing the Spare Tire, Jack and Tools

The spare tire, tool bag, jack and jack handle are stored in the trunk compartment. Move the carpeting out of the way to reach this equipment.



ARSB06002A

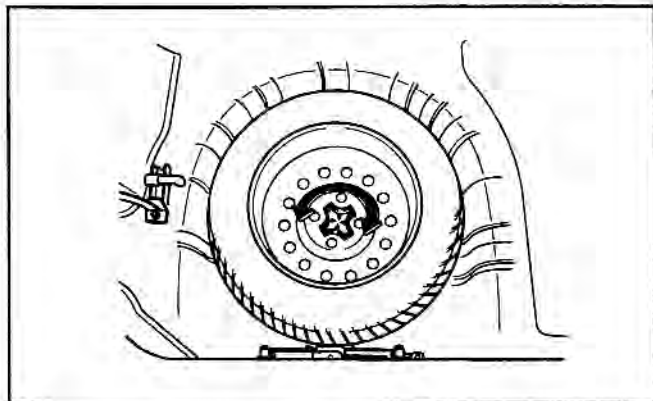


ARSB06002

To remove spare tire:

Remove the cover from the spare tire. Turn the tire hold-down wing bolt counterclockwise.

Store the jack and tire in the reverse order of removal.



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To prevent the jack, jack handle, and tool bag from "rattling" while the vehicle is in motion, store them properly.

Important — Use of Compact Spare Tire

Your vehicle is equipped with a compact spare tire. This compact spare tire takes up less space than a regular-size tire. This tire is smaller than a conventional tire and is designed for temporary use only.

CAUTION

- *You should drive carefully when the compact spare is in use. The compact spare should be replaced by the proper conventional tire and rim at the first opportunity.*
- *The operation of this vehicle is not recommended with more than one compact spare tire in use at the same time.*

CAUTION

This spare tire should be used only for VERY short distances. Compact spares should NEVER be used for long drives or extended distances.

In Case Of An Emergency

The compact spare should be inflated to 60 psi (415 kPa).

* NOTICE

Check the inflation pressure after installing the spare tire. Adjust it to the specified pressure, as necessary.

When using a compact spare tire, observe the following precautions:

- Under no circumstances should you exceed 80 km/h (50 mph); a higher speed could damage the tire.
- Ensure that you drive slowly enough for the road conditions to avoid all hazards. Any road hazard, such as a pothole or debris, could seriously damage the compact spare.
- Any continuous road use of this tire could result in tire failure, loss of vehicle control, and possible personal injury.
- Do not exceed the vehicle's maximum load rating or the load-carrying capacity shown on the sidewall of the compact spare tire.
- Avoid driving over obstacles. The compact spare tire diameter is smaller than the diameter of a conventional tire and reduces the ground clearance approximately 25 mm (1 in.), which could result in damage to the vehicle.
- Do not take this vehicle through an automatic car wash.
- Do not use tire chains on this tire. Because of the smaller size, a tire chain will not fit properly. This could damage the vehicle and result in loss of the chain.
- This tire should not be installed on the front axle if the vehicle must be driven in snow or on ice.
- Do not use the compact spare tire on any other vehicle because this tire has been designed especially for your vehicle.
- The compact spare's tread life is shorter than a regular tire. Inspect your compact spare tire regularly and replace worn compact spare tires with the same size and design, mounted on the same wheel.

Changing Tires

Jacking Instructions

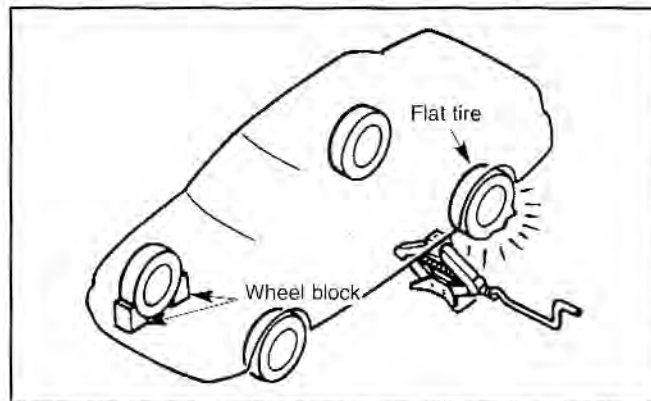
The jack is provided for emergency tire changing only. Follow jacking instructions to reduce the possibility of personal injury.

⚠ WARNING - Changing Tires

- Never attempt vehicle repairs or a tire change in the traffic lanes of a public road or highway. Always move the vehicle completely off the road and onto the shoulder before trying to change a tire. If you cannot find a firm, level place off the road, call a towing service company for assistance.
- Do not exceed the maximum permissible load of the jack: 600 kg. (1,320 lbs).
- Be sure to use the correct front or rear jacking positions on the vehicle; never use the bumpers or any other part of the vehicle for jack support.
- Never allow any portion of your body to get beneath the vehicle while using the jack.
- Do not start or run the engine while the vehicle is supported by the jack.

Tire Replacement

1. Park on a level surface and set the parking brake firmly.
2. Set the automatic transaxle in P (Park), or shift the manual transaxle into R (Reverse).
3. Activate the hazard warning flasher.
4. Remove the wheel lug nut wrench, jack, jack handle, and spare tire from the vehicle.
5. Block both the front and rear of the wheel that is diagonally opposite the jack position.



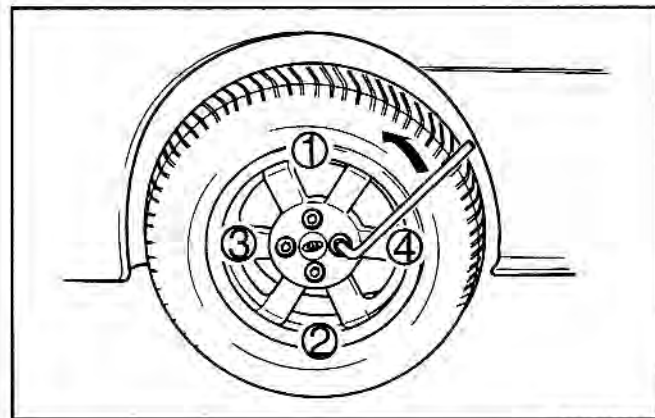
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In Case Of An Emergency

⚠ WARNING - Changing a Front Tire

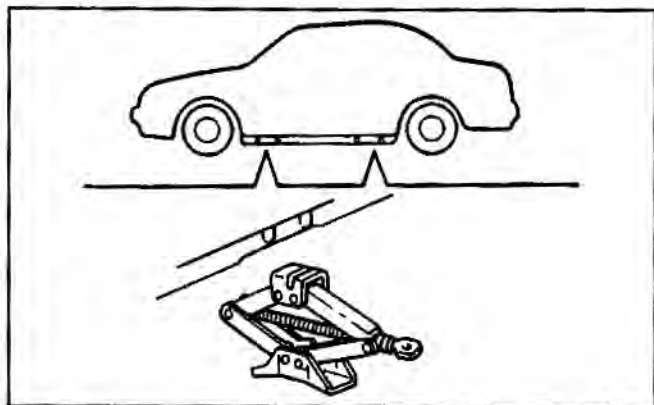
When one front wheel is lifted off the ground, neither the automatic transaxle P (Park) position nor the manual transaxle R (Reverse) position will prevent the vehicle from moving and possibly slipping off the jack, even if these positions are properly engaged. To prevent vehicle movements while changing a tire, always set the parking brake fully, and always block the wheel diagonally opposite the wheel being changed.

6. For models with alloy wheels, remove the center cap.



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7. Loosen the four lug nuts counterclockwise one turn each, but do not remove any nut until the tire has been raised off the ground.



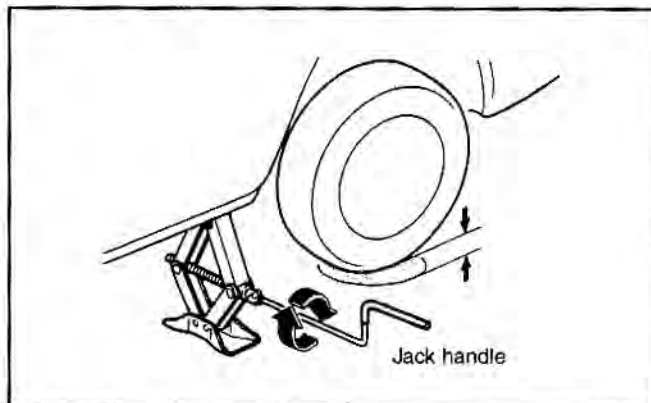
AS2B06014

8. Place the jack at the front or rear jacking position closest to the tire you are changing. Place the jack under the side sill at the designated location.

⚠ WARNING -Jack Location

To reduce the possibility of injury, be sure to use only the jack provided with the vehicle and in the correct jack position; never use any other part of the vehicle for jack support.

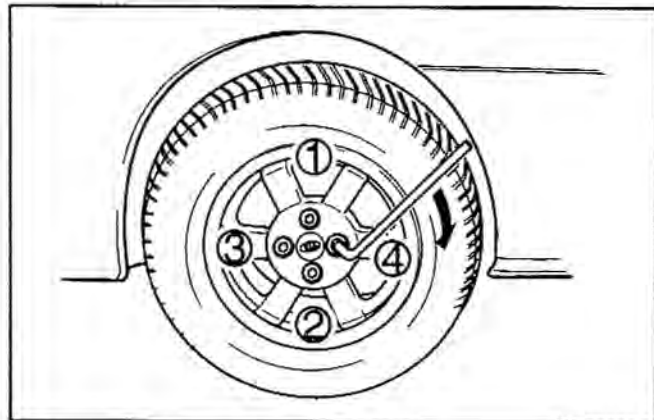
9. Insert the jack handle into the jack and turn it clockwise, raising the vehicle until the tire just clears the ground, approximately 30 mm (1.2 in.). Before removing the lug nuts, make sure the vehicle is stable and that there is no chance for it to slip or move.



1S2108008

In Case Of An Emergency

10. Remove the lug nuts by turning them counterclockwise, then remove the wheel.
11. Mount the spare tire into position and tighten the nuts by hand. Install the lug nuts with the beveled edge inward.
12. Turn the jack handle counterclockwise and lower the vehicle until it touches the ground. Tighten the lug nuts firmly in an "X" pattern.



1B3106002B

Once the lug nuts have been tightened, lower the vehicle fully to the ground and continue to tighten the lug nuts until they are completely secured.

If you are unsure of the tightness of the wheel lug nuts, have them checked at the nearest service station. The specified tightening torque is 103 N·m (76 ft. lb.).

CAUTION

Your vehicle has metric threads on the wheel studs and nuts. During wheel removal, make certain that the same nuts removed are reinstalled - or, if replaced, that nuts with metric threads and the same configuration are used. Installation of a non-metric thread nut on a metric stud or vice-versa will not secure the wheel to the hub properly and will damage the stud so that it must be replaced. Be sure to use extreme care in checking for thread style before installing aftermarket lug nuts or wheels. If in doubt, consult an Authorized Kia Dealer. Damaged studs may result in wheel loss and personal injury.

⚠ WARNING - Wheel Studs

If the studs are damaged, they may lose their ability to retain the wheel. This could lead to the loss of the wheel and a collision.

*** NOTICE**

Check the inflation pressures as soon as possible after installing the spare tire. Adjust it to the specified pressure, if necessary.

Standard Tire: 29 psi

Compact Spare Tire: 60 psi

To prevent the jack, jack handle, wheel lug nut, wrench and spare tire from rattling while the vehicle is in motion, store them properly.

MAINTENANCE

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Maintenance Services

You should exercise the utmost care to prevent damage to your vehicle and/or 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

Maintenance Service and Record Retention are the owner's responsibility.

You should retain documents to show that 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 be able to establish your compliance with the servicing and maintenance requirements of your Kia warranties.

Detailed warranty information is provided in your Warranty and Consumer Information Manual. Repairs and adjustments required as a result of improper maintenance or a lack of required maintenance are not covered.

We recommend that such maintenance be performed by an Authorized Kia Dealer using genuine Kia parts.

Maintenance

Scheduled Maintenance Service

*After 96 months or 192,000 km (60,000 miles)
continue to follow the prescribed maintenance
intervals.*

MAINTENANCE SCHEDULE

Engine Control system

MAINTENANCE INTERVALS	Kilometers or Time in Months, Whichever Comes First																
	km x 1,000	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192
MAINTENANCE ITEM	Months	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96
Engine oil & engine oil filter	(1), (3)	Change every 6,000 km or 3 months, whichever comes first.															
Drive belts (tension)				I			I			I			I			I	
Cooling system hoses & connections			I		I		I		I		I		I		I		I
Engine coolant	(1)	I	I	I	I	I	I	I	R	I	I	I	R	I	I	I	R
Fuel filter (passenger vehicle)							R						R				
Fuel tank cap, lines and hoses					I				I				I				I
Air cleaner element	(2)	I	I	I	R	I	I	I	R	I	I	I	R	I	I	I	R
Ignition wires					I				I				I				I
Spark plugs					R				R				R				R

I: Inspect these items and their related parts. If necessary.

Check the engine oil and coolant levels every week.

R: Replace or change.

NOTE :

Check the engine oil and coolant levels every week.

(1) Refer to the lubricant and coolant specifications in the Owner's Manual.

(2) More frequent maintenance is required if driving under dusty conditions.

(3) More frequent maintenance is required if the vehicle is operated under any of the following conditions.

a. Short-distance driving.

b. Driving on dusty roads.

c. Extensive idling or slow-speed driving in stop-and-go traffic.

Maintenance

Engine Control System (cont.)

MAINTENANCE INTERVALS MAINTENANCE ITEM	Kilometers or Time in Months, Whichever Comes First																
	km x 1,000	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192
	Months	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96
Idle speed			I		I		I		I		I		I		I		I
Evaporative emission canister & vapour lines						I					I					I	
PCV valve							I						I				
Engine timing belt	Replace every 102,000 km																

I: Inspect these items and their related parts. If necessary, correct, clean, refill, adjust or replace.

Chassis and Body

MAINTENANCE INTERVALS MAINTENANCE ITEM	Kilometers or Time in Months, Whichever Comes First																
	km x 1,000	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192
	Months	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96
Air conditioner compressor operation & refrigerant amount(if equipped)			I		I		I		I		I		I		I		I
Air filter (if equipped)		R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
Exhaust pipes, heat shield & mountings		I		I		I			I		I		I		I		I
Front suspension ball joints				I			I			I			I			I	
Brakes/clutch fluid (1)		I	I	I	I	R	I	I	I	I	R	I	I	I	I	R	I
Front brake pads & discs (3)		I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I
Rear brake pads & discs/drums (3)		I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I
Parking brake			I		I		I		I		I		I		I		I

I: Inspect these items and their related parts. If necessary, correct, clean, refill, adjust or replace.

R: Replace or change.

(1) Refer to the lubricant and coolant specifications in the Owner's Manual.

(3) More frequent maintenance is required if the vehicle is operated under any of the following conditions.

- Short-distance driving.
- Driving on dusty roads.
- Extensive idling or slow-speed driving in stop-and-go traffic.

Maintenance

Chassis and Body(cont.)

MAINTENANCE INTERVALS MAINTENANCE ITEM	Kilometers or Time in Months, Whichever Comes First																
	km x 1,000	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192
	Months	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96
Brake lines & connections (including booster)			I		I		I		I		I		I		I		I
Manual transaxle oil (1), (3)		I	I	I	I	I	I	I	R	I	I	I	I	I	I	I	R
Clutch & brake pedal free play		I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I
Automatic transaxle fluid (1), (3)		I	I	I	R	I	I	I	R	I	I	I	R	I	I	I	R
Chassis & underbody bolts & nuts		I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I
Tire condition & inflation pressure		I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I
Wheel alignment (4)		Inspect when abnormal condition noted.															
Tire rotation		Rotate the tires every 12,000 km															
Steering operation & linkage (4)		I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I

I : Inspect these items and their related parts. If necessary, correct, clean, refill, adjust or replace.

R: Replace or change

(1) Refer to the lubricant and coolant specifications in the Owner's Manual.

(3) More frequent maintenance is required if the vehicle is operated under any of the following conditions.

a. Short-distance driving.

b. Driving on dusty roads.

c. Extensive idling or slow-speed driving in stop-and-go traffic.

(4) If necessary, rotate and balance the wheels.

Chassis and Body(cont.)

MAINTENANCE INTERVALS MAINTENANCE ITEM	Kilometers or Time in Months, Whichever Comes First																
	km x 1,000	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192
	Months	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96
Power steering fluid & lines			I		I		I		I		I		I		I		I
Driveshaft dust boots				I			I			I			I			I	
Seat belts, buckles & anchors		I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I
Locks, hinges & hood latch		L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L

I : Inspect these items and their related parts. If necessary, correct, clean, refill, adjust or replace.

L: Lubricate.

Maintenance

Owner Maintenance

Owner Maintenance Schedule

A qualified service technician should perform these vehicle inspections at the indicated intervals to ensure safe and dependable operation.

Bring any problem to the attention of an Authorized Kia Dealer as soon as possible.

When refueling, check:

- Engine oil level
- Engine coolant level

CAUTION

Be careful when checking your engine coolant level. The engine compartment will be hot and you could be burned.

- Brake and clutch fluid level
- Washer fluid level

At least monthly:

- Tire inflation pressures (cold)
- Coolant level in reservoir (cold engine)

Every 6 months, check:

- Power steering fluid level
- Automatic transaxle fluid level

You can do the following scheduled maintenance items if you have some mechanical ability, a few basic tools and if you closely follow the directions in this manual.

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.

WARNING -Maintenance Work

Performing maintenance work on a vehicle can be dangerous. You can be seriously injured while performing some maintenance procedures. If you lack sufficient knowledge, experience or the proper tools and equipment to do the work, have it done by an Authorized Kia Dealer.

As explained earlier in this section, several procedures can be done only by an Kia Authorized Dealer with special tools.

Improper owner maintenance during the warranty period may affect warranty coverage. For details, read the separate Kia Warranty and Consumer Information Manual provided with the vehicle. If you're unsure about any servicing or maintenance procedure, have it done by an Authorized Kia Dealer.

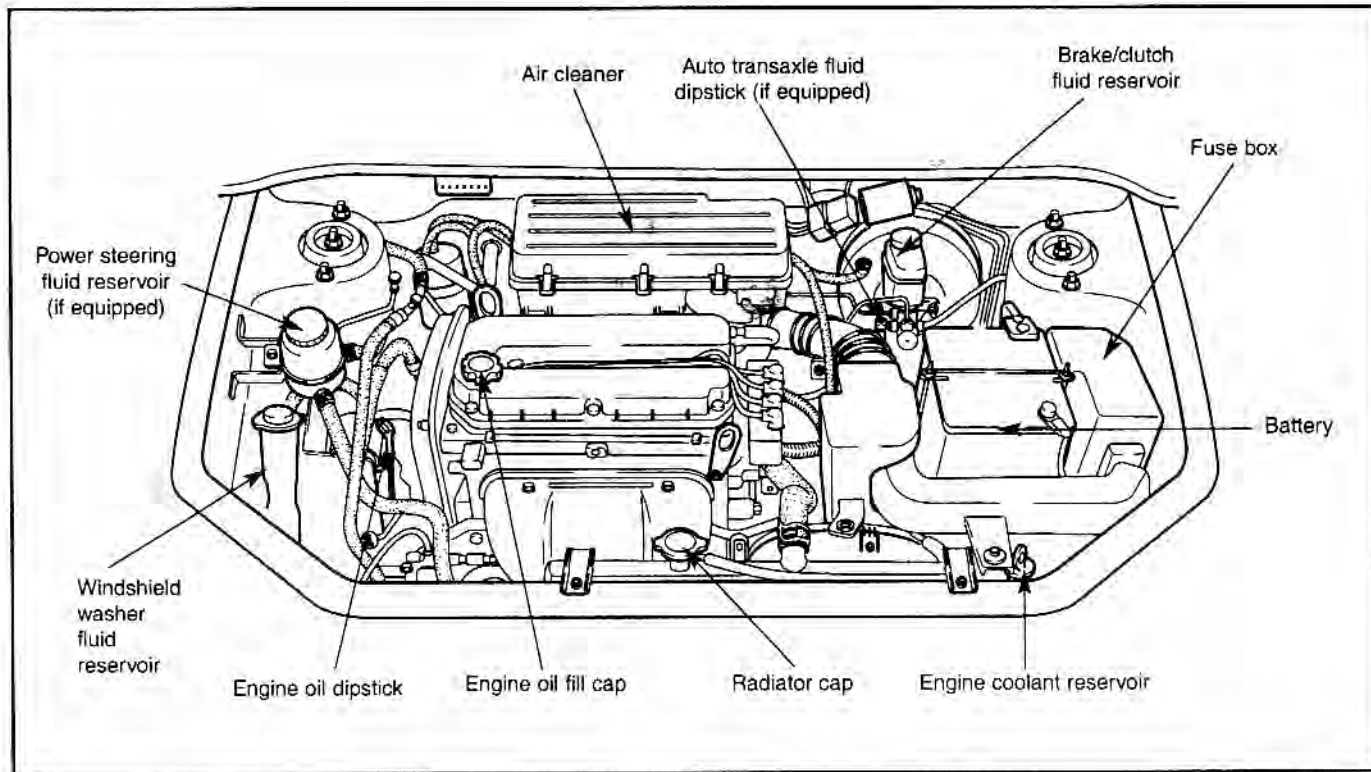
⚠ WARNING - Loose Clothing/ Jewelry

Working under the hood with the engine running is dangerous. It is even more dangerous when you wear jewelry, long hair or loose clothing. These can become entangled in moving parts and result in injury. Therefore, if you must run the engine while working under the hood, make certain that you pull hair back, remove all jewelry (especially rings, bracelets, watches, and necklaces) and all neckties, scarves, and similar loose clothing before getting near the engine or cooling fans.

⚠ WARNING - Engine Cooling Fans

Because your engine cooling fans are electrically controlled, they will run if the ignition switch is on, even if the engine is not running. This could cause serious injury. To prevent this, be sure the ignition is off, unless you must run the engine while performing maintenance or an inspection.

Engine Compartment



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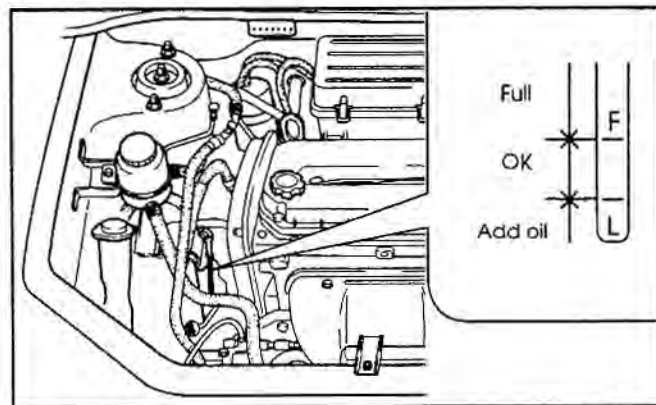
Maintenance

Engine Oil and Oil Filter

Checking the Engine Oil Level

1. Be sure the vehicle is on level ground.
2. Start the engine and allow it to reach normal operating temperature.
3. Turn the engine off and wait a few minutes for the oil to return to the oil pan.
4. Pull out the dipstick, wipe it clean, and re-insert it fully.
5. Pull the dipstick out again and check the level. The level should be between F and L.

If it is near or at L, add enough oil to bring the level to F. **Do not overfill.**



2FDA605

Use only the specified engine oil. (Refer to "Recommended Lubricants" later in this section.)

Changing the Engine Oil and Filter

Change engine oil and filter according to the Scheduled Maintenance earlier in this section.

WARNING - Engine Oil

- Continuous contact with USED engine oil has caused skin cancer in laboratory mice. Protect your skin by washing with soap and water.
- Keep all engine oil out of the reach of children.

1. Warm the engine up for a few minutes and then turn it off. Remove the oil filler cap.
2. Drain the oil into a suitable container after removing the oil filler cap and drain plug.

CAUTION

Both the oil and engine are hot. Do not burn yourself.

3. Remove the engine oil filter with an oil filter wrench.

*** NOTICE**

When installing the replacement oil filter, do not allow the oil filter gasket to remain on the oil filter mounting surface. This will cause oil leakage and engine damage. Remove the old gasket completely so that a new gasket will properly seat and seal.

4. Use a clean rag to clean the oil filter mounting surface on the engine.
5. Apply a small amount of engine oil to the new oil filter O-ring seal.
6. Install the oil filter and tighten it. (Refer to the oil filter caution label for tightening instructions.)
7. Replace the drain plug tightly after the oil has thoroughly drained.
8. Refill the engine with new oil to the F mark on the dipstick. **Do not overfill.**

Maintenance

9. Re-install the oil filler cap securely.
10. Start the engine and inspect around the oil filter seal for leaks. Stop the engine.
Check the oil level and fill to the F mark, if necessary.

Oil Capacity

Without filter change : 3.2 L (3.38 US qt.)

With filter change : 3.4 L (3.59 US qt.)

Use only the specified engine oil. (Refer to "Recommended Lubricants" later in this section.)

* NOTICE

- Follow these instructions carefully. An improper oil filter installation can cause oil leakage and engine damage.
- Although oil filters may have the same external appearance, their internal designs differ significantly. These filters are not interchangeable. To avoid potential engine damage, use only the specified filter. Consult an Authorized Kia Dealer.

Engine Cooling System

The cooling system is a high-pressure type with a reservoir and is filled with year-round antifreeze coolant 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

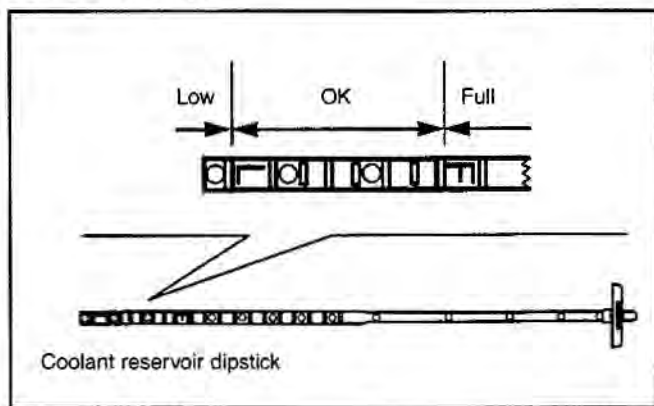
⚠ WARNING -Removing Radiator Cap

- Never attempt to remove the radiator cap while the engine is operating. Doing so might lead to cooling system and/or engine damage and could result in serious personal injury from escaping hot coolant or steam. Turn the engine off and wait until it has cooled. Even then, use extreme care when removing the radiator cap. Wrap a thick towel around it, and turn it counterclockwise slowly to the first stop. Step back while the pressure is released from the cooling system. When you are sure all the pressure has been released, press down on the cap, using a thick towel, and continue turning counterclockwise to remove it.
- Even if the engine is not operating, do not remove the radiator cap or the drain plug while the engine and radiator are hot. Hot coolant and steam may still blow out under pressure, causing serious injury.

Check the condition and connections of all cooling system hoses and heater hoses. Replace any swollen or deteriorated hoses.

The coolant level should be full in the radiator and between F (Full) and L (Low) on the coolant reservoir dipstick when the engine is cool.

Check the coolant level using the dipstick attached to the reservoir cap.



AS2B07003

Maintenance

If the coolant level is low, add enough specified coolant to provide protection against freezing and corrosion and to bring the level to F in the coolant reservoir. Do not overfill. If frequent additions are required, see an Authorized Kia Dealer for a cooling system inspection.

Changing Coolant

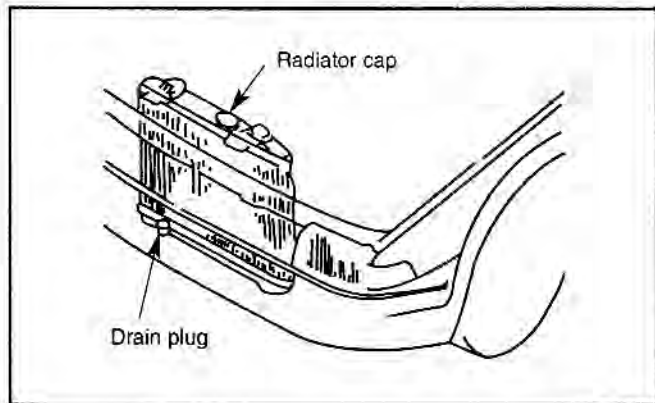
Change coolant according to the Scheduled Maintenance.

- *Use only soft (de-mineralized) water in the coolant mixture.*
- *The engine in your vehicle has aluminum engine parts and must be protected by an ethylene glycol-based coolant to prevent corrosion and freezing.*
- *DO NOT USE alcohol or methanol coolant and do not mix them with the specified coolant.*
- *Do not use a solution that contains more than 60 percent coolant, which would reduce the effectiveness of the solution.*

For mixture percentages, refer to the following table.

PROTECTION	Mixture Percentage (volume)	
	Coolant Solution	Water
Above -16°C (3°F)	35	65
Above -26°C (-15°F)	45	55
Above -40°C (-40°F)	55	45

1. Turn the radiator cap counterclockwise and remove it.
2. Loosen the radiator drain plug and drain the coolant into a suitable container.



AS2B07004

3. With the drain plug loose, flush the system with running water.

4. Drain the system completely and retighten the drain plug. Add the necessary amount of ethylene glycol-based coolant and water to provide the required protection against freezing and corrosion.

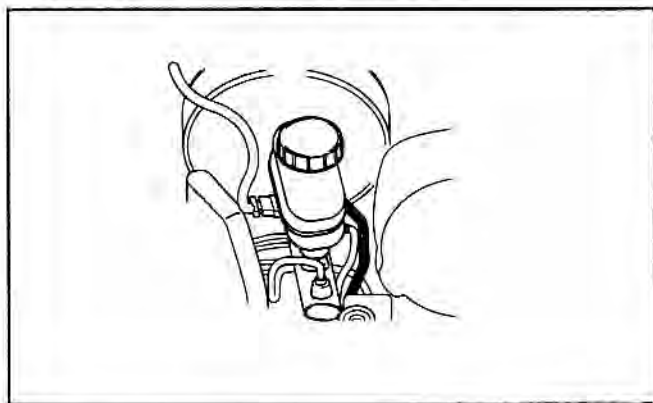
In extremely cold climates, add the necessary amount of ethylene glycol-based coolant in accordance with the instructions of the coolant manufacturer.

5. Run the engine at idle with the radiator cap off. Slowly add additional coolant if necessary.
6. At this point, wait until the engine reaches normal operating temperature. Depress the accelerator two or three times; then add coolant if required. **Be careful not to burn yourself.**
7. Install the radiator cap. Inspect all connections for leaks and recheck the coolant level in the reservoir. Recheck again after a few days of driving and add coolant as necessary.

Maintenance

Brakes and Clutch

Checking Brake/Clutch Fluid Level



OMSA5016

Brake Fluid Reservoir

Before adding fluid, thoroughly clean the area around the reservoir cap to prevent brake fluid contamination.

If you add brake/clutch fluid, fill the brake/clutch fluid reservoir to the MAX line. The brake/clutch fluid level will drop with accumulated mileage. This is a normal condition associated with brake/clutch lining wear.

Check the fluid level in the reservoir periodically; it should be between MAX and MIN on the side of the reservoir.

If the fluid level is excessively low, have the brake/clutch system checked by an Authorized Kia Dealer.

Use only the specified brake/clutch fluid. (Refer to "Recommended Lubricants" later in this section.)

Do not mix different types of fluid.

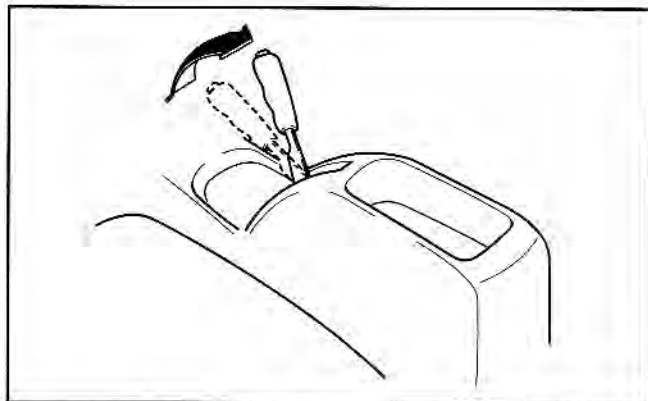
*** NOTICE**

In the event the brake/clutch system requires frequent additions of fluid, the vehicle should be inspected by an Authorized Kia Dealer.

Parking Brake

Checking the Parking Brake

Check the stroke of the parking brake by counting the number of “clicks” heard while fully applying it from the released position. Also, the parking brake alone should securely hold the vehicle on a fairly steep grade.



1B3105001G

If the number of “clicks” is more or less than specified, have the parking brake adjusted by an Authorized Kia Dealer.

Stroke:

4-6 “clicks” at a force of 98N (22 lbs.).

Maintenance

Power Steering (If Equipped)

Checking the Power Steering Fluid Level

The power steering fluid level should be checked periodically.

With the engine off and the vehicle on level ground, check the fluid level in the power steering reservoir; it should be between the MAX and MIN reservoir indicators.

Before adding power steering fluid, thoroughly clean the area around the reservoir cap to prevent power steering fluid contamination.

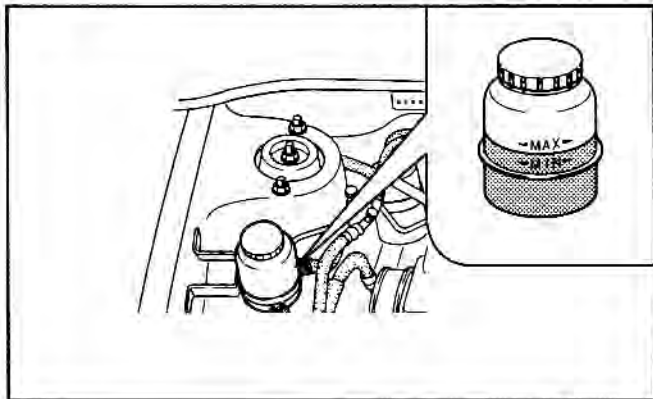
If the level is low, add fluid to the MAX level.

In the event the power steering system requires frequent addition of fluid, the vehicle should be inspected by an Authorized Kia Dealer.

Use only the specified power steering fluid. (Refer to "Recommended Lubricants" later in this section.)

*** NOTICE**

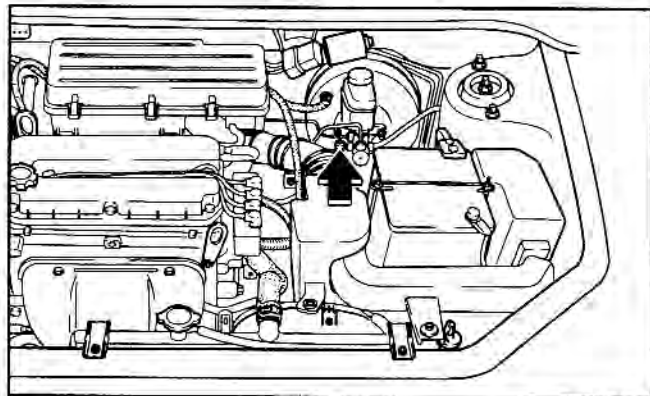
To avoid damage to the power steering pump, do not operate the vehicle for prolonged periods with a low power steering fluid level.



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Automatic Transaxle (If Equipped)

Checking the Automatic Transaxle Fluid Level



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The automatic transaxle fluid level should be checked regularly. Take the following precautions to measure the fluid level properly.

The volume of the transaxle fluid changes with temperature. For that reason, it is best to check the level after having driven the vehicle for 30 minutes. If necessary, however, the fluid can also be checked when the vehicle has not been driven.

CAUTION

- *Low fluid level causes transaxle slippage. Overfilling can cause foaming, loss of fluid, and transaxle malfunction.*
- *The use of a non-specified fluid could result in transaxle malfunction and failure.*

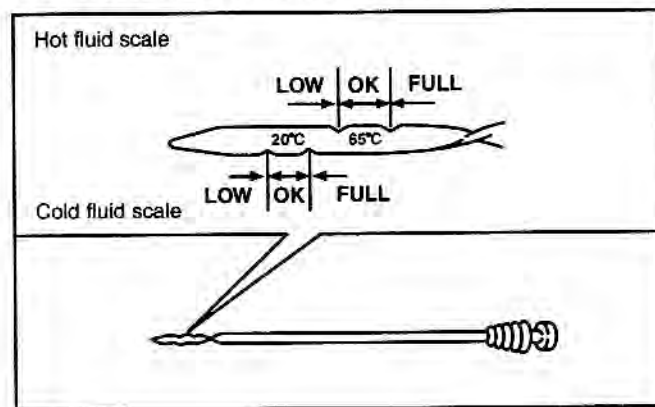
WARNING - Parking Brake

To avoid sudden movement of the vehicle, set the parking brake and depress the brake pedal while shifting the shift lever.

Maintenance

1. Park the vehicle on level ground and set the parking brake firmly.
2. Allow the engine to idle for about 2 minutes, then depress the brake pedal. Move the shift lever slowly through all ranges then set it in the P (Park) position.
3. With the engine still idling, pull the dipstick out, wipe it clean, and reinsert it fully.
4. Pull the dipstick out again.

The fluid level is checked as follows:



AS2B07012A

Using the hot fluid scale:

If the vehicle has been driven and the fluid is warmed to the normal operating temperature of approximately 65°C (149°F), the fluid level should be between Full and Low.

Using the cold fluid scale:

If the engine has not been running and the outside temperature is approximately 20°C (68°F), the fluid level should be between Full and Low.

- *Use the cold scale as a rough reference only.*
- *If the outside temperature is lower than 20°C (68°F), start the engine and measure the fluid level after letting the engine reach operating temperature.*
- *If the vehicle has been driven for an extended period at high speeds or in city traffic in hot weather, it is usually best to measure the fluid level after stopping the engine and allowing the fluid to cool for 30 minutes.*

When inserting the dipstick, be sure to insert it completely. When adding fluid, measure frequently with the dipstick to make sure the fluid level does not go above the Full position. Do not overfill.

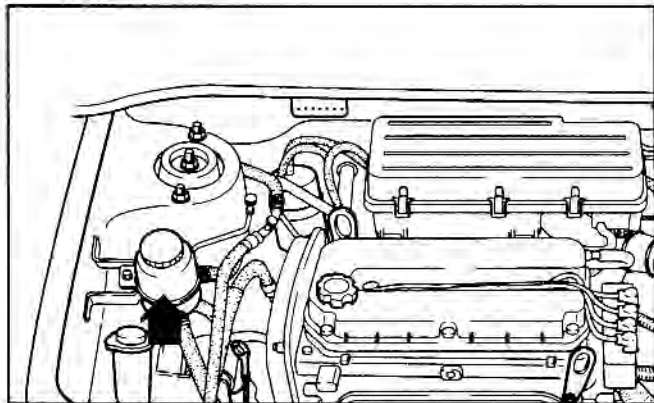
Use only the specified automatic transaxle fluid. (Refer to "Recommended Lubricants" later in this section.)

Lubricants and Fluids

Checking the Washer Fluid Level

Check the fluid level in the washer fluid reservoir and add fluid if necessary.

Plain water may be used if washer fluid is not available. However, use windshield washer solvent with antifreeze characteristics in cold climates to prevent freezing.



2FDA702

CAUTION

- *Do not use radiator coolant or antifreeze in the washer fluid reservoir.*
- *Radiator coolant can severely obscure visibility when sprayed on the windshield and may cause loss of vehicle control or damage to paint and body trim.*

Body Lubrication

All moving points of the body, such as doors, hood hinges and locks, should be lubricated each time the engine oil is changed.

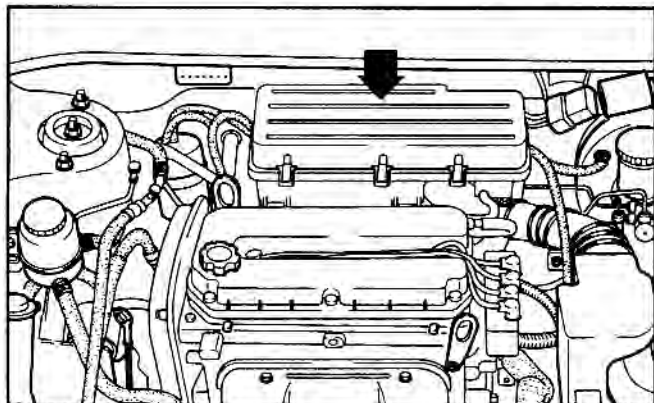
Use a non-freezing lubricant on locks during cold weather.

Make sure the engine hood secondary latch keeps the hood from opening when the primary latch is released.

Air Cleaner

Element Replacement

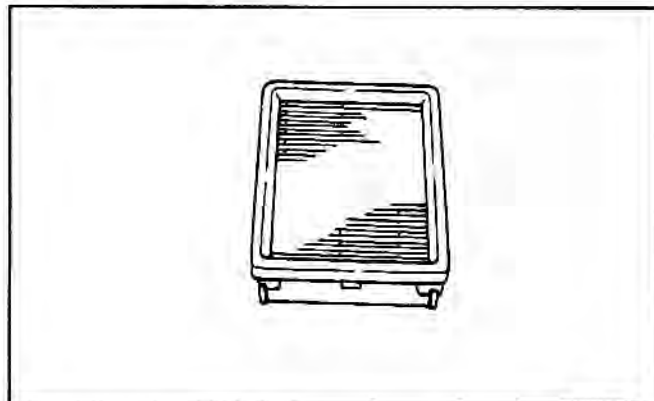
1. Remove the air cleaner cover attaching clips.



2F2D702

2. Wipe the inside of the air cleaner housing with a clean, damp cloth.

3. Replace the air cleaner element.



134-09020A

4. Re-install in the reverse order of removal.

Replace the element according to the Scheduled Maintenance.

If the vehicle is operated in extremely dusty or sandy areas, replace the element more often than at the usual recommended intervals. (Refer to Schedule 2 - Severe Maintenance in this section.)

CAUTION

- *Do not drive with the air cleaner removed; this will result in excessive engine wear.*
- *Driving without an air cleaner encourages backfiring, which could cause a fire in the engine compartment.*

Wiper Blades

Wiper Blade Maintenance

NOTICE

Commercial hot waxes applied by automatic car washes have been known to make the windshield difficult to clean.

Contamination of either the windshield or the wiper blades with foreign matter can reduce the effectiveness of the windshield wipers. Common sources of contamination are insects, tree sap, and hot wax treatments used by some commercial car washes. If the blades are not wiping properly, clean both the

window and the blades with a good cleaner or mild detergent, and thoroughly rinse with clear water.

NOTICE

To prevent damage to the wiper blades, do not use gasoline, kerosene, paint thinner, or other solvents on or near them.

Windshield Wiper Blade Replacement

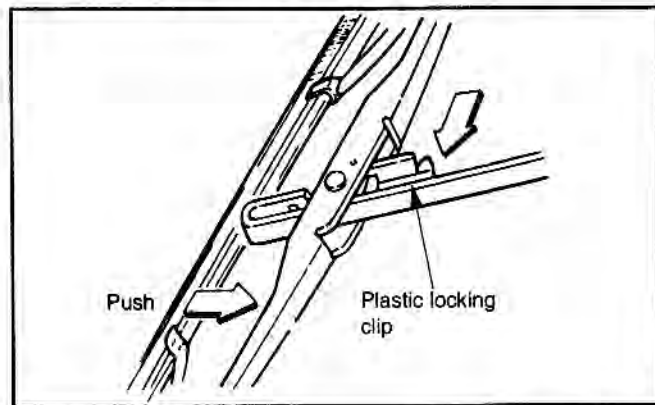
When the wipers no longer clean adequately, the wiper blades may be worn or cracked, requiring replacement.

NOTICE

To prevent damage to the wiper arms or other components, do not attempt to move the wipers manually.

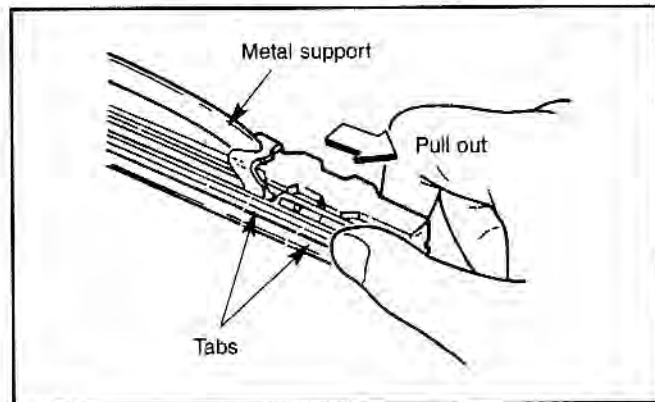
1. Raise the wiper arm and turn the wiper blade assembly to expose the plastic locking clip.

Compress the clip and slide the blade assembly toward the windshield, then slide it off the arm.



AN7B07016

2. Firmly grasp the end of the rubber blade and pull until the tabs are free of the metal support.



AN7B07017

*** NOTICE**

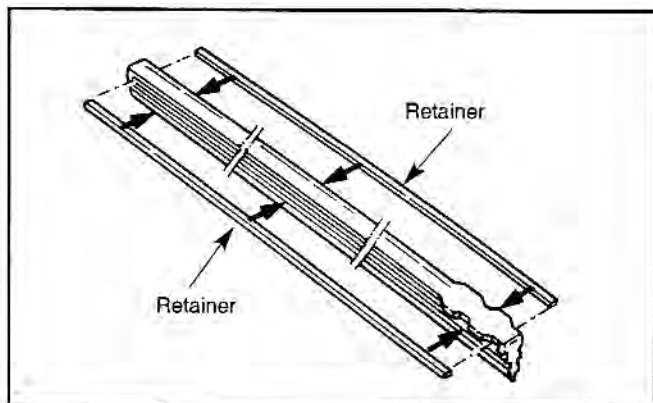
Do not allow the wiper arm to fall against the windshield.

Maintenance

3. Remove the metal retainers from the rubber blade and install them in the new rubber blade.

* NOTICE

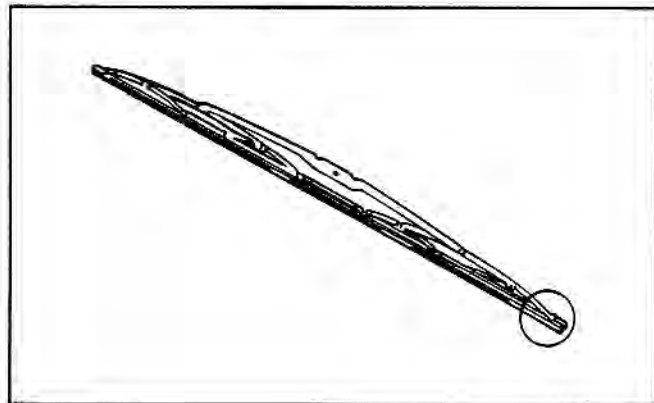
Do not bend the metal retainers.



AN7B07018

4. Carefully insert a new rubber blade and re-install the blade assembly in the reverse order of removal.

Install the blade with the tabs facing towards the bottom of the wiper arm.



AN7B07019

Battery

⚠ WARNING - Battery Dangers

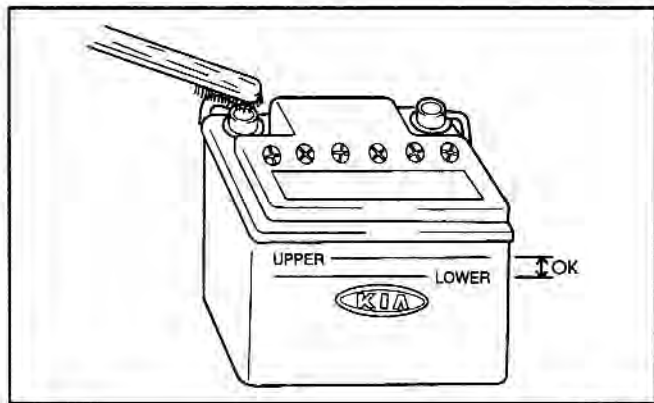
- Keep lighted cigarettes and all other flames or sparks away from the battery. Hydrogen, which is a highly combustible gas, is always present in battery cells and may explode if ignited.
- Keep batteries out of the reach of children; batteries contain highly corrosive **SULFURIC ACID**. Do not allow battery acid to contact your skin, eyes, clothing or paint finish.
- If any electrolyte gets into your eyes, flush your eyes with clean water for at least 15 minutes and get immediate medical attention. If possible, continue to apply water with a sponge or cloth until medical attention is received.

(Continued)

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- If electrolyte gets on your skin, thoroughly wash the contacted area. If you feel a pain or a burning sensation, get medical attention immediately.
- When charging a battery or working near a battery, wear eye protection. Always provide ventilation when working in an enclosed space.
- When lifting a plastic-cased battery, excessive pressure on the case may cause battery acid to spew through the vent caps, resulting in personal injury. Lift with a battery carrier or with your hands on opposite corners. Never attempt to charge a battery when the battery cables are connected.

Battery Maintenance



AS2B07020

For best battery service:

- Keep the battery securely mounted.
- Keep the battery top clean and dry.
- Keep the terminals and connections clean, tight, and coated with petroleum jelly or terminal grease.
- Immediately rinse any spilled electrolyte from the battery with a solution of water and baking soda.
- If the vehicle is not going to be used for an extended period of time, disconnect the battery cables.

Battery Recharging

Your vehicle has a maintenance-free, calcium-based battery.

- If the battery becomes discharged in a short time (headlights or interior lights were left on while the vehicle was not in use), recharge it by slow (trickle) charging for 10 hours.
- If the battery gradually discharges because of high electric load while the vehicle is being used, recharge it at 20-30A for two hours.

WARNING - Recharging Battery

When recharging the battery, observe the following precautions:

- The battery must be removed from the vehicle and placed in an area with good ventilation.
- Do not allow cigarettes, sparks, or flame near the battery.
- Watch the battery during charging, and stop or reduce the charging rate if the battery cells begin gasing (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.

(Continued)

(Continued)

- 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.

*** NOTICE**

- Before performing battery maintenance or recharging, turn OFF all accessories and stop the engine.
- When remounted battery, disconnect the negative (-) battery cable first. When re-installing the battery, reconnect the negative (-) battery cable last.

Maintenance

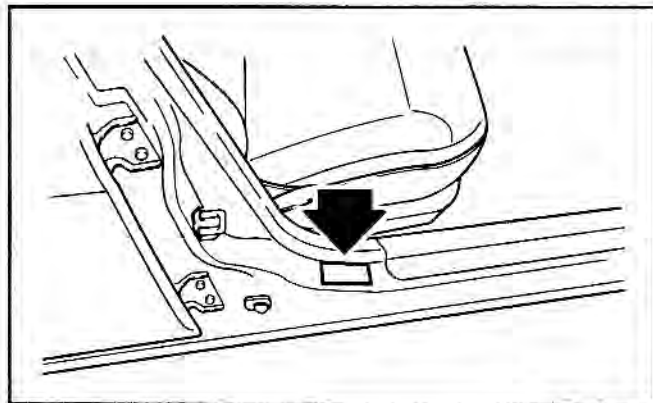
Tires and Wheels

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.

Inflation Pressures

Check all tire pressures (including the spare) monthly when the tires are cold. "Cold tires" means the car has not been driven for at least three hours or driven less than 1.6 km (one mile). Recommended pressures must be maintained to ensure ride quality, vehicle handling, and minimum tire wear.



AS2B07021

All specifications (sizes and pressures) can be found on a label attached to the front passenger door sill. The correct tire pressure is 200 kPa (29 psi). The compact spare should be at 415 kPa (60 psi).

* NOTICE

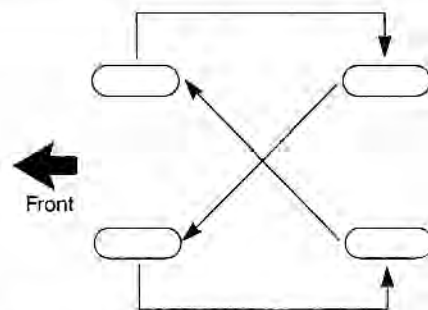
- Warm tires normally exceed recommended cold tire pressures by 28 to 41 kPa (4 to 6 psi). Do not release air from warm tires to adjust the pressure. The tires will become underinflated when cold.
- Underinflation results in excessive wear, poor handling, reduced fuel economy, and the possibility of blowouts from overheated tires. Also, low tire pressure can cause poor sealing of the tire bead. If the tire pressure is excessively low, wheel deformation and/or tire separation are possible. Keep tire pressures at the proper levels. If a tire frequently needs refilling, have it checked by an authorized Kia dealer or a tire shop.
- Overinflation produces a harsh ride, handling problems, excessive wear at the center of the tire tread, and a greater possibility of damage from road hazards.

⚠ WARNING -Tire Inflation

Overinflation or underinflation can reduce tire life, adversely affect vehicle handling, and lead to sudden tire failure. This could result in loss of vehicle control.

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.



Do not include compact spare tire in rotation

AS2B07022A

Maintenance

During tire rotation, check the tires for correct balance. Check for uneven wear and damage. **Abnormal wear** is usually caused by incorrect tire pressure, improper wheel alignment, an out-of-balance condition, 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. Also, replace the tire if you can see fabric or cord. After rotation, be sure to bring the front and rear tire pressures to specification and check lug nut tightness.

Disc brake pads should be inspected for wear whenever tires are rotated.

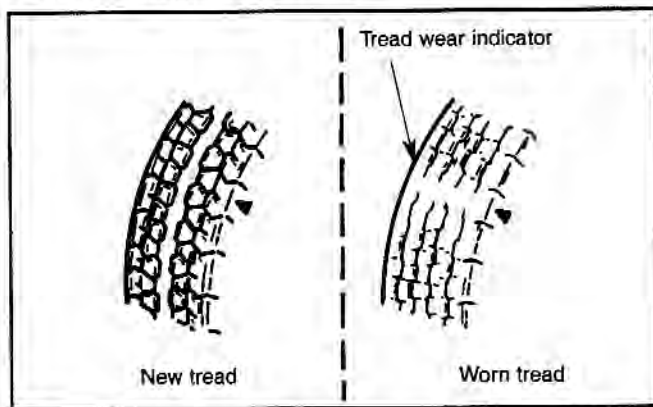
* NOTICE

Rotate radial tires that have an asymmetric tread pattern from front to rear only and not from right to left.

Tire Replacement

If the tire is worn evenly, a tread wear indicator will appear as a solid band, 12.7 mm wide (1/2 inch) across the tread. This shows there is less than 1.6 mm (1/16 inch) of tread remaining on the tire. Replace the tire when this happens.

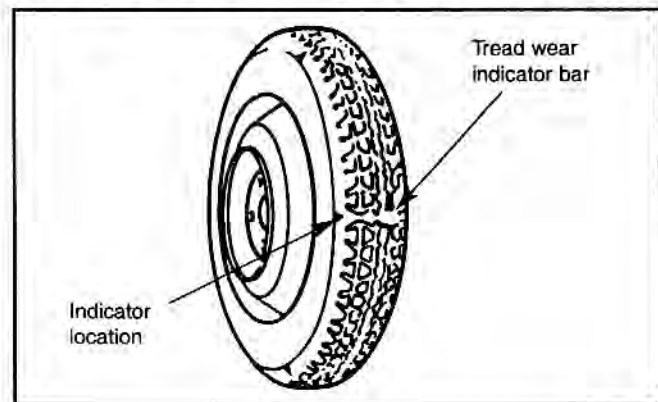
Do not wait for this band to appear across the entire tread before replacing the tire.



AS2B07023

Compact Spare Tire Replacement

A compact spare tire has a shorter tread life than a regular size tire. Replace it when you can see the tread wear indicator bars on the tire. The replacement compact spare tire should be the same size and design tire as the one provided with your new Kia and should be mounted on the same compact spare tire wheel. The compact spare tire is not designed to be mounted on a regular size wheel, and the compact spare tire wheel is not designed for mounting a regular size tire.



AS2B07024

Wheel Alignment and Tire Balance

In addition to proper tire inflation, correct wheel alignment helps to minimize tire wear. Your vehicle's alignment should be checked every 12 months or 24,000 km (15,000 miles).

Your tires were properly balanced at the factory, but they may need to be rebalanced before they wear out. If you notice a consistent vibration when driving, have your Kia Dealer inspect your tires. A tire should always be rebalanced if it has been removed from the wheel.

* NOTICE

Improper wheel weights can damage your vehicle's aluminum wheels. Use only approved wheel weights.

* NOTICE

- When replacing tires, never mix radial, bias-belted, and bias-type tires. All four tires should be of the same size, design and construction. Use only the tire sizes listed on the Tire Label attached to the passenger's door. Make sure that all tires and wheels are the same size and have the same load-carrying capacity. Use only tire and wheel combinations recommended on the Tire Label or by an Authorized Kia Dealer. Failure to follow these precautions can adversely affect the safety and handling of your vehicle.
- The use of any other tire size or type may seriously affect ride, handling, ground clearance, tire clearance, and speedometer calibration.

(Continued)

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- Driving on worn-out tires is very hazardous and will reduce braking effectiveness, steering accuracy, and traction.
- It is best to replace all four tires on your vehicle at the same time. If that is not possible, then replace the two front or two rear tires as a pair. Replacing just one tire can seriously affect vehicle handling.

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.

CAUTION

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 calibration, headlight aim and bumper height.

Tire Size Designation

A tire's sidewall is marked with a tire size designation. You will need this information when selecting replacement tires for your car. The following explains what the letters and numbers in the tire size designation mean.

Example tire size designation: P175/70R13 82T

P – Applicable vehicle type (tires marked with the prefix “P” are intended for use on passenger cars; however, not all tires have this marking).

175 – Tire width in millimeters.

65 – Aspect Ratio. The tire's section height as a percentage of tire width.

R – Tire construction code (radial).

14 – Rim diameter in inches.

81 – 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 need to replace one. The following explains what the letters and numbers in the wheel size designation mean.

Example wheel size designation: 14 x 5.5J

14 – Rim diameter in inches.

5.5 – Rim width in inches.

J – Rim contour designation.

Tire Speed Ratings

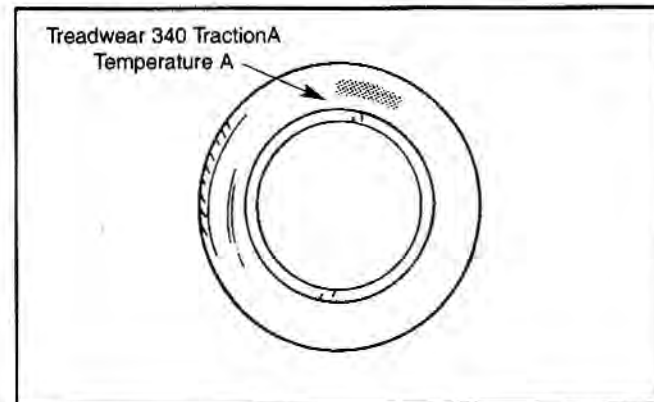
The following chart below shows many of the different speed ratings currently used for passenger car tires. The speed rating symbol is part of the tire size designation on the sidewall of the tire. This symbol corresponds to that tire's designed maximum safe operating speed.

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)

Uniform Tire Quality Grading

The following information relates to the tire grading system developed by the Canadian Motor Vehicle Safety Standard (CMVSS) for grading tires by tread wear, traction and temperature performance.

These temperature grades are molded on the sidewalls of passenger vehicle tires. Tires available as standard or optional equipment on Kia vehicles may vary with respect to grade.



AN7B07024

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 as well on the government course as a tire graded 100.

The relative performance of tires depends upon the actual conditions of their use. Variations in driving habits, service practices and differences in road characteristics and climate may significantly affect performance.

Traction – A, B and C

The traction grades, from highest to lowest, are A, B and C, and they represent the tire's ability to stop on wet pavement as measured under controlled conditions on specified government test surfaces of asphalt and concrete. A tire marked C may have poor traction performance.

Temperature – A, B and C

The temperature grades are A (the highest), B and C, representing the tire's resistance to generate heat and to dissipate heat when tested under controlled conditions on a specified indoor laboratory test wheel. Sustained high temperatures can cause the material of the tire to degenerate and reduce tire life, and excessive temperature can lead to sudden tire failure. Grade C corresponds to a level of performance that all passenger vehicle tires must meet under the Canadian Motor Vehicle Safety Standard No. 109. Grades A and B represent higher levels of performance on the laboratory test wheel than the maximum required by law.

WARNING -Tire Temperature

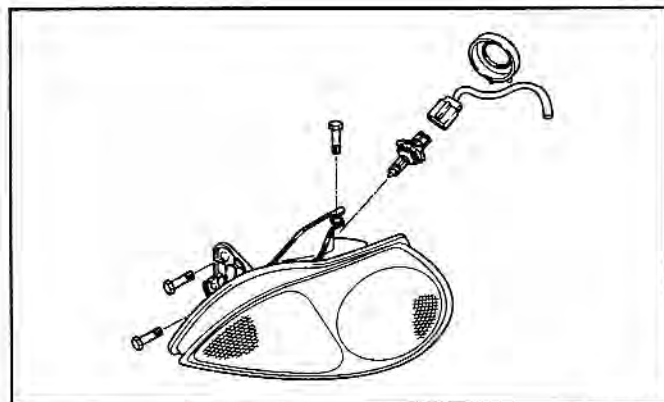
The temperature grade for a tire is established for a tire that is properly inflated and not overloaded. Excessive speed, underinflation, or excessive loading, either separately or in combination, can cause heat build-up and possible sudden tire failure. This can cause loss of vehicle control and death or personal injury.

Bulb Replacement

Headlight Bulb Replacement

⚠ WARNING - Halogen Bulbs

- Wear eye protection when changing a bulb. Allow the bulb to cool before handling it.
- Halogen bulbs contain pressurized gas. If broken, a halogen bulb will explode and will produce flying pieces of glass.
- Always handle halogen bulbs carefully to avoid scratches and abrasion. 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 the headlight assembly.
- If a bulb becomes damaged or cracked, replace it immediately and carefully dispose of it.



1B3106004B

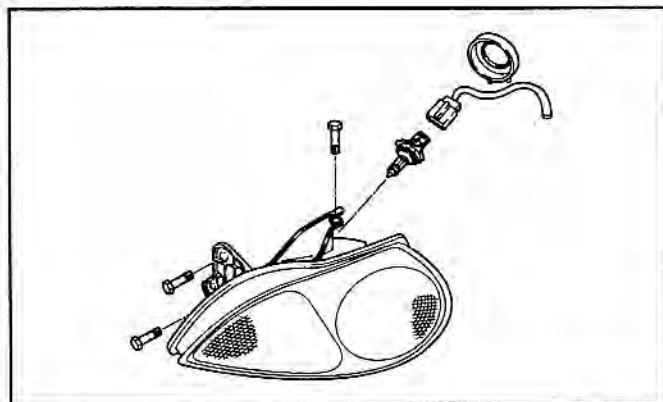
1. Remove the headlight bulb cover by turning it counterclockwise.
2. Disconnect the electrical connector from the bulb assembly.
3. Unsnap the headlight bulb retaining wire by depressing the end of it and pulling it upward.
4. Remove the bulb.
5. Install a new bulb by aligning the bulb with the three(3) slots on the headlight assembly and snap the headlight bulb retaining wire into position.
6. Connect the headlight bulb electrical connector.
7. Install the headlight bulb cover.

Bulb Replacement

Headlight Bulb Replacement

⚠ WARNING - Halogen Bulbs

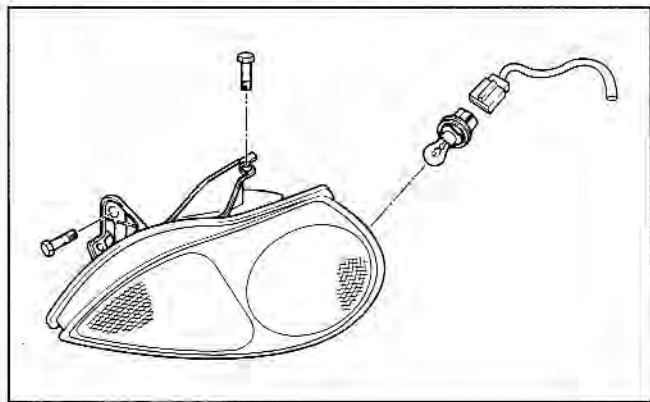
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1B3106004B

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5. Install a new bulb by aligning the bulb with the three(3) slots on the headlight assembly and snap the headlight bulb retaining wire into position.
6. Connect the headlight bulb electrical connector.
7. Install the headlight bulb cover.

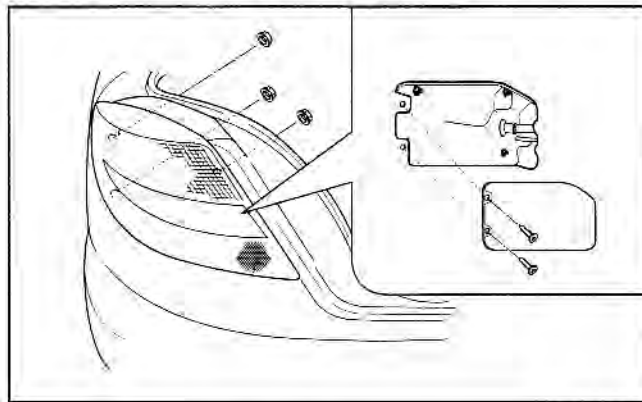
Front Turn Signal / Parking Light Bulb Replacement



1B3106006

1. Turn the parking light bulb socket counterclockwise and remove it from the headlight assembly.
2. Remove the bulb from the socket by pulling it out.
3. Insert a new bulb in the socket.
4. Re-install the parking light bulb socket into the headlight assembly and rotate it clockwise to lock the socket in place.

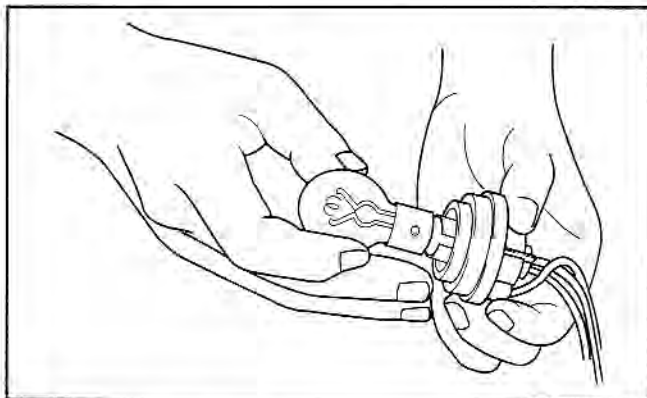
Rear Combination Light Bulb Replacement



1B3106007A

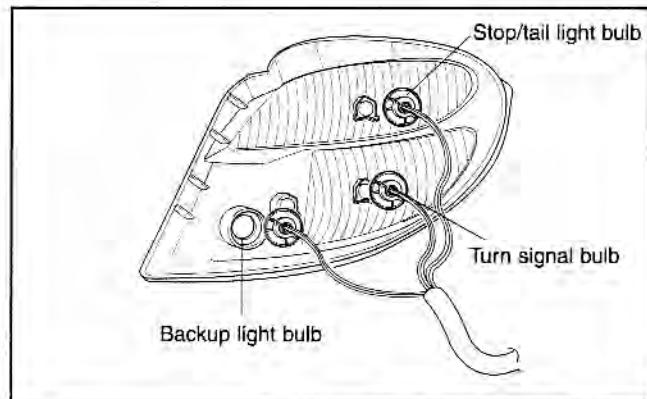
1. Using a cross-tip screwdriver, remove the screws and bolts attaching the rear combination light assembly to the body.
2. Carefully remove the light assembly from the vehicle.

Maintenance



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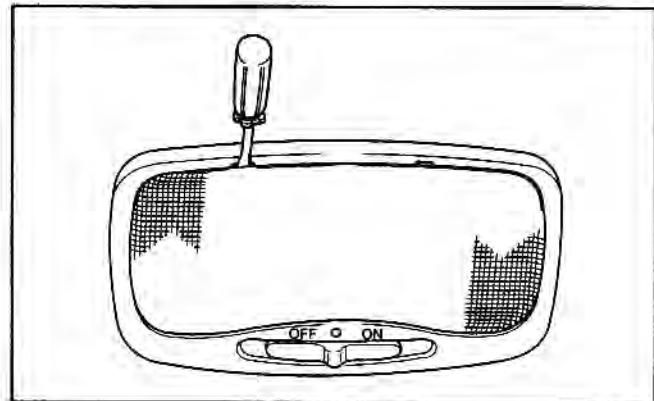
3. Turn the bulb socket counterclockwise and remove it from the housing.
4. Push the bulb in, then rotate it one-quarter turn counterclockwise and remove the bulb from the socket.



1B3106007C

5. Insert a new bulb in the socket, then push the bulb in and rotate it one-quarter turn clockwise to lock the bulb in place.
6. Re-install the bulb socket into the rear combination light assembly and rotate it one-quarter turn clockwise to lock the socket in place.
7. Carefully re-install the light assembly in the vehicle.

Dome Light Bulb Replacement



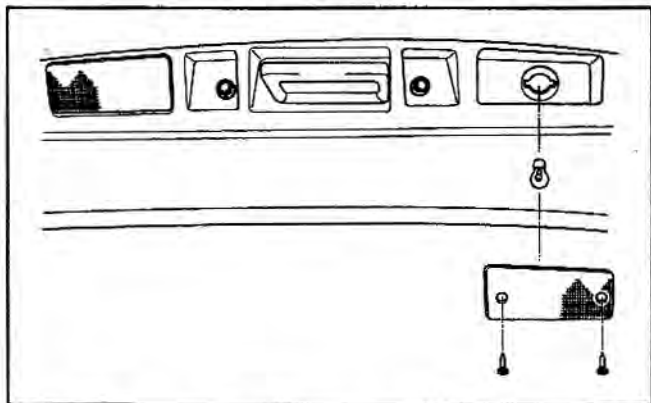
1RS106022

1. Using a flat-blade screwdriver, gently pry the lens from the dome light housing.

2. Push up on the metal spring clip until the bulb drops down to remove it.
3. Install a new bulb. The easiest way to do this is to place the bulb into the spring clip first, then slide the other end into place.
4. Align the two (2) lens tabs with the dome light housing notches and snap the lens into place.

Maintenance

License Plate Light Bulb Replacement



2BLA745

1. Using a Phillips screwdriver, remove the two (2) lens mounting screws and the lens.
2. Carefully pull the bulb out of the socket.
3. Insert a new bulb in the socket.
4. Re-install the lens and the two (2) mounting screws.

Lubricant Specifications

Recommended Lubricants

To help achieve proper engine and powertrain performance and durability, use only lubricants of the proper quality. The correct lubricants also help promote engine efficiency which results in improved fuel economy.

These lubricants and fluids are recommended for use in your vehicle.

Engine oils labeled Energy Conserving Oil are now available. Along with other additional benefits, they contribute to fuel economy by reducing the amount of fuel necessary to overcome engine friction. Often, these improvements are difficult to measure in everyday driving, but in a year's time they can offer significant cost and energy savings.

Lubricant	Classification
Engine oil	API Service SG or SH Energy Conserving-II (EC-II)
Manual transaxle oil	API Service GL-4 (SAE 75W-90)
Automatic transaxle fluid	SK ATF SP-III or DIAMOND ATF SP-III
Power steering fluid	PSF-III
Brake/clutch fluid	SAEJ1703 or FMVSS116 DOT-3 or DOT-4

Maintenance

Recommended SAE Viscosity Number

* NOTICE

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

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

When choosing an oil, consider the range of temperature your vehicle will be operated in before the next oil change. Then select the recommended oil viscosity from the chart.

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

* Recommended for the Canadian climate.

Exterior Care

Exterior General Caution

It is very important to follow the manufacturer's 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. Pay special attention to the removal of any accumulation of salt, dirt, mud, or 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 fallout 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, can be used.

*** NOTICE**

Do not use strong soap, chemical detergents or hot water, and do not wash the vehicle in direct sunlight or when the body of the vehicle is warm.

After washing, rinse the vehicle thoroughly with lukewarm or cold water. Do not allow soap to dry on the finish.

// CAUTION

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.

CAUTION - Water Washing in Engine Compartment

- *Water washing in the engine compartment may cause the failure of electrical circuits located therein.*
- *When washing in the engine compartment, be extremely careful to avoid splashing electrical circuits and devices with water.*

* NOTICE

- Wiping dust or dirt off the body with a dry cloth will scratch the finish.
- Do not use steel wool, abrasive cleaners, or strong detergents containing highly alkaline or caustic agents on chrome-plated or anodized aluminum parts. This may result in damage to the protective coating and cause discoloration or paint deterioration.

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 as well, 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.

Finish Damage Repair

Deep scratches or stone chips in the painted surface must be repaired promptly. Exposed metal will quickly rust and may develop into a major repair expense.

*** NOTICE**

If your vehicle is damaged and requires any metal repair or replacement, be sure the body shop applies anti-corrosion materials to the parts repaired or replaced.

Bright-Metal Maintenance

- To remove road tar and insects, use a tar remover, not a scraper or other sharp object.
- To protect the surfaces of 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 or 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 and especially at the end of each winter. Pay special attention to these areas because it is difficult to see all the mud and dirt. The lower edges of doors, rocker panels, and frame members have drain holes that should not be allowed to clog with dirt; trapped water in these areas can cause rusting. It will do more harm than good to wet down the road grime without removing it.

CAUTION

After washing the vehicle, test the brakes while driving slowly to see if they have been affected by water.

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.*
- *Use only a mild soap or neutral detergent, and rinse thoroughly with water. Also, be sure to clean the wheels after driving on salted roads. This helps prevent corrosion.*
- *Avoid washing the wheels with high-speed car wash brushes.*

Interior Care

Interior General Precautions

Prevent caustic solutions such as perfume and cosmetic oil from contacting the dashboard; they may cause damage or discoloration. If they do contact the dashboard, wipe them off immediately.

Upholstery and Interior Trim Cleaning

Vinyl

First, remove dust and loose dirt from vinyl with a whisk broom or vacuum cleaner. Then, clean vinyl surfaces with a vinyl cleaner.

Fabric

First, remove dust and loose dirt from fabric with a whisk broom or vacuum cleaner. Then, clean with a mild soap solution recommended for upholstery or carpets. Remove fresh spots immediately with a fabric spot cleaner. If a fresh spot do not receive immediate attention, the fabric may be stained and its color can be affected. Also, its fire-resistant properties may be reduced if the material is not properly maintained.

CAUTION

Using anything but recommended cleaners and procedures may affect the fabric's appearance and fire-resistant properties.

Lap/Shoulder Belt Webbing Cleaning

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.

Interior Window Glass Cleaning

If the interior glass surfaces of the vehicle become fogged (that is, covered with an oily, greasy or waxy film), they should be cleaned with glass cleaner. Follow the directions on the glass cleaner container.

*** NOTICE**

Do not scrape or scratch the inside of the rear window. This could damage the rear window defroster grid.

SPECIFICATIONS

Specifications	8-2
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Specifications

Specifications

The specifications given here are for general information only. Please check with an authorized Kia dealer for more precise and more up-to-date information.

DIMENSIONS

Unit: mm (in)

Item	4 Door	5 Door
Overall length	166.9 (4,240)	166.9 (4,240)
Overall width	66.1 (1,680)	66.1 (1,680)
Overall height w/o roof rack	56.5 (1,435)	-
Overall height with roof rack	-	57.9 (1,470)
Front tread	56.3 (1,430)	56.3 (1,430)
Rear tread	56.5 (1,435)	56.5 (1,435)
Wheelbase	94.9 (2,410)	94.9 (2,410)

WEIGHTS

Unit: kg (lb)

Item	4 Door		5 Door	
	M/T	A/T	M/T	A/T
GVW	1,504(3,315)	1,533(3,379)	1,529(3,370)	1,557(3,433)
GAWR	Fr.	820 (1,808)		820 (1,808)
	Rr.	790(1,742)		790(1,742)

GVW: Gross Vehicle Weight

GAWR: Gross Axle Weight Rating

AIR CONDITIONER

Refrigerant complies with SAE J639	R134a
Maximum operating charge	480 ± 25 g (16.93 ± 0.88 oz.)

LIGHT BULBS

	Light Bulb		Wattage
Front	Headlights		60/55
	Turn signal lights		28/8
Rear	Fog light (if equipped)		27
	Stop and tail lights		28/8
	Turn signal lights	4 Door	27
		5 Door	21
	Backup lights		27
	Side marker lights		5
	License plate lights		5
Interior	Interior lights		10
	High mounted stop lights (if equipped)	4 Door	21
		5 Door	5
	Map lights(if equipped)		5

TIRES

	Size	Inflation Pressure	
		Front	Rear
Type	P175/65R 14 81T	29 psi (200 kPa)	29 psi (200 kPa)
Spare tire (Temporary spare)	T105/70D 14	60 psi (415 kPa)	
	T105/70R 14		

Specifications

ENGINE

Item	1.6 DOHC
Bore x Stroke	78 mm x 83.4 mm (3.07 in. x 3.28 in.)
Displacement	1594 cc (97.2 cu. in.)
Compression Ratio	10.0:1

ELECTRICAL SYSTEM

Item		1.6 DOHC
Battery		12 volt MF 60 AH
Alternator		12V-80 Amp
Starter	M/T	12V-0.85 kw
	A/T	12V-0.85 kw
Spark plugs	Gap	1.0-1.1 mm (0.028-0.032 in.)
	Type	BKR6ES-II (NGK) RC8YC4 (CHAMPION)

CAPACITIES

Item		liter/US qt.
Engine Oil w/Filter		3.4/3.59
Engine Oil w/o Filter		3.2/3.38
Coolant		2.6+/0.38+
Transaxle Oil	M/T	2.8/2.9
	A/T	5.9/6.2
		liter/US gal.
Fuel Tank		45/11.7

M/T: Manual Transaxle

A/T: Automatic Transaxle

GEAR RATIO

Gear	Manual Transaxle	Automatic Transaxle
1st	3.417:1	2.800:1
2nd	1.895:1	1.540:1
3rd	1.296:1	1.000:1
4th	0.968:1	0.700:1
5th	0.780:1	-
Reverse	3.272:1	2.333:1

CLUTCH

Clutch Control		Cable
Clutch Pedal	Type	Suspended
	Full stroke	129.3 mm (5.091 inches)
	Height	195 mm (7.677 inches)

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