LEXUS

2009

SC 430

OWNER'S MANUAL

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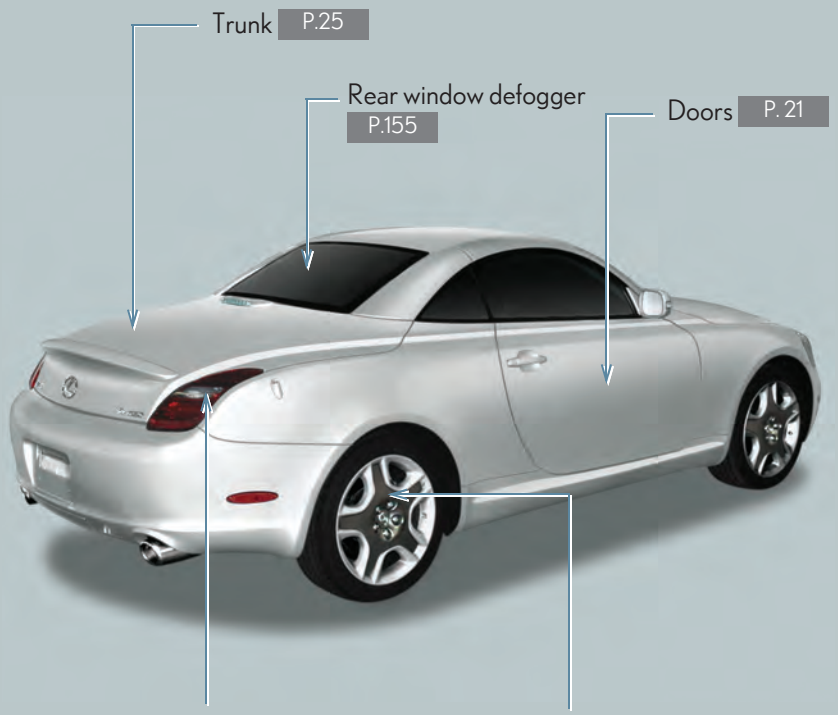
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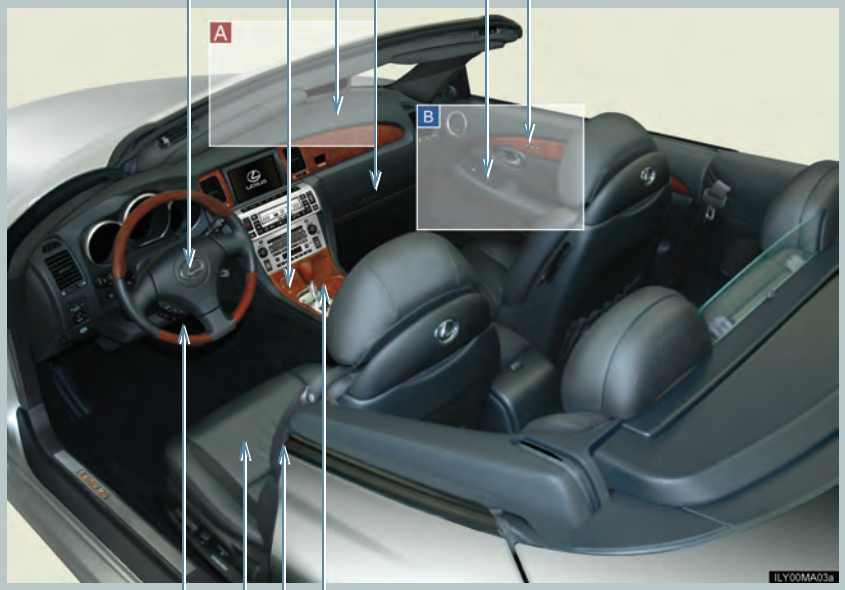

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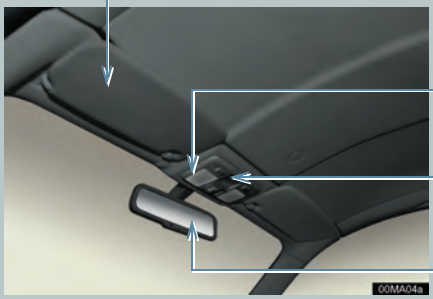

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For your information

Main Owners Manual

Please note that this manual applies to all models and explains all equipment, including options. Therefore, you may find some explanations for equipment not installed on your vehicle.

All specifications provided in this manual are current at the time of printing. However, because of the Lexus policy of continual product improvement, we reserve the right to make changes at any time without notice.

Depending on specifications, the vehicle shown in the illustration may differ from your vehicle in terms of color and equipment.

Accessories, spare parts and modification of your Lexus

A wide variety of non-genuine spare parts and accessories for Lexus vehicles are currently available in the market. You should know that Toyota does not warrant these products and is not responsible for their performance, repair or replacement, or for any damage they may cause to, or adverse effect they may have on, your Lexus vehicle.

This vehicle should only be modified using genuine Lexus products. Modification with non-genuine Lexus products could affect its performance, safety or durability, and may even violate governmental regulations. In addition, damage or performance problems resulting from the modification may not be covered under warranty.

Installation of a mobile two-way radio system

As the installation of a mobile two-way radio system in your vehicle could affect electronic systems such as the multiport fuel injection system/sequential multiport fuel injection system, cruise control system, anti-lock brake system, SRS airbag system and seat belt pretensioner system, be sure to check with your Lexus dealer for precautionary measures or special instructions regarding installation.

Scrapping of your Lexus

The SRS airbag and seat belt pretensioner devices in your Lexus contain explosive chemicals. If the vehicle is scrapped with the airbags and seat belt pretensioners left as they are, this may cause an accident such as fire. Be sure to have the systems of the SRS airbag and seat belt pretensioner removed and disposed of by a qualified service shop or by your Lexus dealer before you scrap your vehicle.

Perchlorate Material

Special handling may apply, See www.dtsc.ca.gov/hazardouswaste/perchlorate.

Your vehicle has components that may contain perchlorate. These components may include airbag, seat belt pretensioners, and wireless remote control batteries.

⚠ CAUTION

General precautions while driving

Driving under the influence: Never drive your vehicle when under the influence of alcohol or drugs that have impaired your ability to operate your vehicle. Alcohol and certain drugs delay reaction time, impair judgment and reduce coordination, which could lead to an accident that will hurt or kill you, your occupants or others.

Defensive driving: Always drive defensively. Anticipate mistakes that other drivers or pedestrians might make and be ready to avoid accidents.

Driver distraction: Always give your full attention to driving. Anything that distracts the driver, such as adjusting controls, talking on a cellular phone or reading can result in a collision with resulting death or serious injury to you, your occupants or others.

When children are in the vehicle

Never leave children unattended in the vehicle.

When left unattended, children may be able to start the vehicle or shift the vehicle into neutral. There is also a danger that children may injure themselves by playing with the cigarette lighter, the windows, the retractable hardtop, or other features of the vehicle. In addition, heat build-up or extremely cold temperatures inside the vehicle can be fatal to children.

Symbols used throughout this manual

Cautions & Notices

⚠ CAUTION

This is a warning against anything which may cause death or injury to people if the warning is ignored. You are informed about what you must or must not do in order to reduce the risk of death or injury to yourself and others.

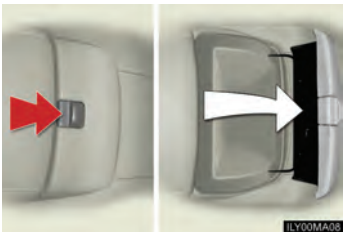
⚠ NOTICE

This is a warning against anything which may cause damage to the vehicle or its equipment if the warning is ignored. You are informed about what you must or must not do in order to avoid or reduce the risk of damage to your Lexus and its equipment.

Symbols used in illustrations

Safety symbol

The symbol of a circle with a slash through it means “Do not”, “Do not do this”, or “Do not let this happen”.



Arrows indicating operations

➡ Indicates the action (pushing, turning, etc.) used to operate switches and other devices.

⇨ Indicates the outcome of an operation (e.g. a lid opens).

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Keys

The following keys are provided with the vehicle.

1 Master keys
2 Valet key
3 Key number plate
4 Flat key

■ When to use the master keys and valet key

- Use the master keys for normal daily use.
- For added security, lock the console box and the glove box with a master key and provide the parking attendant with the valet key.

■ Key number plate

Keep the plate in a safe place such as your wallet, not in the vehicle. In the event that a key is lost, a new key can be made at your Lexus dealer using the key number plate.

NOTICE

■ To prevent key damage

- Do not bend the keys, subject them to strong impact, expose them to high temperatures by placing them in direct sunlight, or get them wet.
- Do not expose the keys to electromagnetic materials or attach any material that blocks electromagnetic waves to the key surface.
- Do not disassemble the electronic key.

Wireless remote control

The wireless remote control can be used to lock and unlock the vehicle and the trunk from outside the vehicle.

1 Locks both side doors

Push and hold to sound alarm.

2 Unlocks both side doors, Opens the side windows (push and hold)

Pressing the button unlocks the driver's door. Pressing the button again within 3 seconds unlocks the other door.

3 Opens the trunk (push and hold)

■ **Sounding the alarm**

Push the PANIC button for about 2 to 3 seconds. An alarm sounds to deter any person from trying to break into or damage your vehicle.

If you want to stop the alarm, push any button.

This function does not work when the engine switch is in the ON position.

■ **Operating indicator**

Doors : A buzzer sounds and the emergency flashers flash.
(Lock: Once, Unlock: Twice)

Trunk : A buzzer sounds.

Windows: A buzzer sounds.

■ **Low battery**

If the wireless remote control does not function or if it only operates very close to the vehicle, the battery may be low. (→P.254)

Security feature

If a door is not opened for approximately 60 seconds after the vehicle is unlocked, the anti-theft system automatically locks the vehicle again.

Door lock buzzer

If a door is not fully closed, a buzzer sounds continuously if an attempt to lock the door is made. To stop the buzzer, fully close the door and lock the vehicle once more.

Customization that can be configured at Lexus dealer

Settings (e.g. buzzer) can be changed. (Customizable features →P.354)

Certification for the wireless remote control (for vehicles sold in U.S.A.)

FCC ID: MOZB12UE

FCC ID: HYQ12BBK

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

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC WARNING:

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

Certification for the wireless remote control (for vehicles sold in Canada)

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

The vehicle can be locked and unlocked using the wireless remote control, a key or the door lock switch.

Wireless remote control

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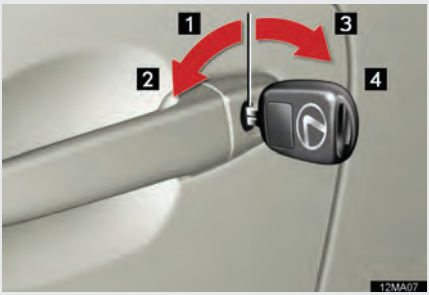
Key



1 Locks both side doors
2 Closes the side windows (turn and hold)
3 Unlocks doors

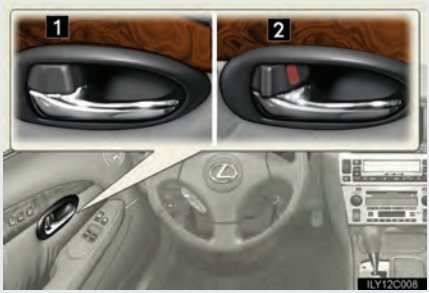
Turning the key rearward unlocks the driver's door. Turning the key once again unlocks the other door.

4 Opens the side windows (turn and hold)

Door lock switch

1 Locks both side doors
2 Unlocks both side doors

Inside lock button



1 Locks the door

2 Unlocks the door

The side doors can be opened by pulling the inside handles even if the lock buttons are in the locked position.

Locking the side doors from the outside without a key

STEP 1 Push the lock lever to the lock position.

STEP 2 Close the door.

Automatic door locking and unlocking systems

The following functions can be set or canceled:

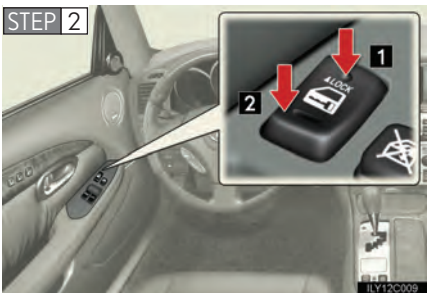
Function	Operation
Shift position linked door locking function	Shifting the shift lever out of “P” locks both side doors.
Shift position linked door unlocking function	Shifting the shift lever to “P” unlocks both side doors.
Speed linked door locking function	Both side doors are locked when the vehicle speed is approximately 12 mph (20 km/h) or higher.
Driver’s door linked door unlocking function	The passenger’s door is unlocked when the driver’s door is opened within 10 seconds after turning the engine switch “ACC” or “LOCK” position.

Setting and canceling the functions

To switch between setting and canceling, follow the procedure below:

STEP 1 Close both side doors and switch the engine switch to "ON" position. (Perform step 2 within 20 seconds.)

STEP 2



Shift the selector lever to "P" or "N", press and hold the driver's door lock switch (1 or 2) for about 5 seconds then release.

The selector lever and switch positions corresponding to the desired function to be set or canceled are shown as follows.

Function	Selector lever position	Switch position
Shift position linked door locking function	"P"	1
Shift position linked door unlocking function		2
Speed linked door locking function	"N"	1
Driver's door linked door unlocking function		2

When the setting or canceling operation is complete, both side doors are locked and then unlocked.

Door lock prevention

The doors cannot be locked from inside the vehicle, if a side door is open and the key is in the engine switch.

Key reminder function

A buzzer sounds if the driver's door is opened, while the key is in the LOCK or ACC position to remind you to remove the key.

Customization that can be configured at Lexus dealer

Settings (e.g. unlocking function using a key) can be changed. (Customizable features →P.355)

CAUTION

To prevent an accident

Observe the following precautions while driving the vehicle.

Failing to do so may result in a door opening and cause occupant out, resulting in death or serious injury.

- Always use a seat belt.
- Always lock the doors.
- Ensure that both side doors are properly closed.
- Do not pull the inside handle of the doors while driving. The doors may be opened and the passengers are thrown out of the vehicle and it may result in serious injury or death.
  The doors may be opened even if the inside lock buttons are in locked position.

Trunk

The trunk can be opened using the trunk opener or a wireless remote control.

Opening the trunk from inside the vehicle

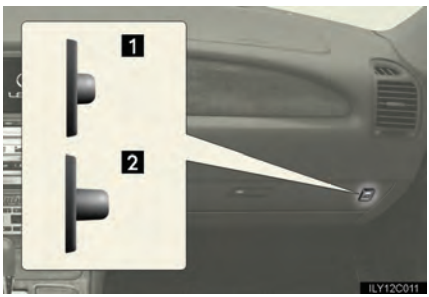
1 Push the switch to release the trunk lid.

Opening the trunk from outside the vehicle

▶ Wireless remote control

→P.18

Locking the trunk opener feature



1 Operative

2 Inoperative

The main switch is in the glove box.

Trunk light

The trunk light turns on when the trunk is opened.

Trunk handle

Use the trunk handle when closing the trunk.

When keeping items in the trunk

Turn off the main switch and lock the glove box and console box.

The trunk lid can be opened using a loop of wire in the console box even with the main switch in the glove box turned off.

Internal trunk release handle

The trunk lid can be opened by pulling down on the glow-in-the-dark handle located on the inside of trunk lid.

The handle will continue to glow for some time after the trunk lid is closed.

CAUTION

Caution while driving

Keep the trunk lid closed.

This not only keeps personal belongings from being thrown out, but also prevents exhaust gases from entering the vehicle.

When children are in the vehicle

Never leave children unattended in the vehicle as they may lock themselves in the vehicle or trunk, which could cause the child to overheat or suffocate resulting in death or serious injury.

Front seats

Adjust the seat positions using the switches.

1 Seat position fore/aft control switch
2 Seatback angle control switch
3 Seat cushion (front) angle control switch
4 Vertical height control switch
5 Lumbar support control switch
6 Seatback lock release lever

The rear seat contact avoidance function

If you push back the seat backward when the seatback reclined too far backward, the seat will adjust the seatback angle forward.

If you recline the seatback too far backward when the seat is in the pushed back position, the seat will adjust the seat position forward.

After first reconnecting the battery

The rear seat contact avoidance function does not work. When you push back the seat or recline the seatback backward, a buzzer sounds to warn that the rear seat may interfere with the seatback movement. The following procedure must be performed.

STEP 1 Move the seat position control switch forward until a beeping sound is emitted.

STEP 2 Move the seatback angle switch forward until a beeping sound is emitted.

CAUTION

Reclining adjustment

Do not recline the seat more than necessary when the vehicle is in motion, to reduce the risk of sliding under the lap belt.

If the seat is too reclined during an accident, the lap belt may slide past the hips and apply restraint forces directly to the abdomen, or your neck may contact the shoulder belt, increasing the risk of death or serious injury.

After adjusting or returning the seatback

Push and pull the seatback to confirm that it is securely locked.

While the vehicle is moving

Never operate the seatback lock release levers.

Driving position memory system

The vehicle will memorize the positions of the driver's seat, the tilt-and-telescopic steering column and outside rear view mirrors.
Two different driving position profiles can be entered into the computer's memory.

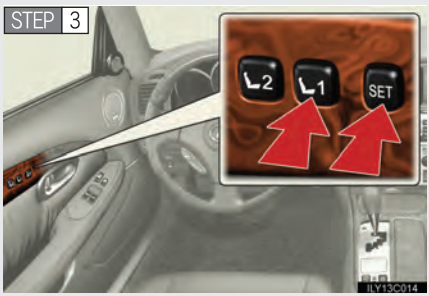
The same buttons are found on the front passenger's side, allowing the position of the front passenger's seat to be memorized.

Setting the driving position

STEP 1 With the transmission selector lever in the "P" position, turn the engine switch to the "ON" position.

STEP 2 Adjust the driver's seat, tilt and telescopic steering column, and outside rear view mirrors to the desired positions.

STEP 3



While pushing the "SET" button, push button "1" or "2" until the signal beeps.

By repeating these three steps and pressing the other button, the driving position for another driver can be recorded.

Recalling the memorized position

The driving position will be automatically adjusted to the position recorded for that button when:

STEP 1 The transmission selector lever is in the "P" position.

STEP 2 The engine switch is in the "ON" position.

STEP 3 Pushing button "1" or "2".

To change the memorized position

STEP 1 Adjust the desired positions of the driver's seat, tilt and telescopic steering column and outside mirrors.

STEP 2 While pushing the "SET" button, push button "1" or "2" until the signal beeps.

Retained accessory power

Each memorized position (except for the tilt and telescopic steering column) can be activated within 30 seconds after the corresponding side door is opened, even after the engine switch OFF.

If any position memory button is pushed while the adjustments are being made

The operation will stop. To reactivate the system, push the desired button ("1" or "2") again.

If the battery is disconnected

The computer's memory will be erased and the memorized positions will have to be set again.

CAUTION

Seat adjustment precaution

Take care during seat adjustment that the seat does not strike the rear passenger or squeeze your body against the steering wheel.

If this happens, you can stop the movement by pressing another driving position memory button.

Head restraints

Vertical adjustment

1 Up

2 Down

Push the head restraint down while pushing the lock release button.

Angle adjustment (front seats only)

Removing the head restraints

Pull the head restraint up while pushing the lock release button.

Adjusting the height of the head restraints

Make sure that the head restraints are adjusted so that the center of the head restraint is closest to the top of your ears.

CAUTION

Head restraint precautions

Observe the following precautions regarding the head restraints. Failure to do so may result in death or serious injury.

- Use the head restraints designed for each respective seat.
- Adjust the head restraint to the correct position at all times.
- Do not drive with head restraints removed.
- After adjusting the head restraint, make sure it is locked in position.

Seat belts

Make sure that all occupants are wearing their seat belt before driving the vehicle.

Correctly using seat belt

1. Extend the shoulder belt so that it comes fully over the shoulder, but does not come into contact with the neck or slide off the shoulder.
2. Position the lap belt as low as possible over the hips.
3. Adjust the position of the seat back. Sit up straight and well back in the seat.
4. Do not twist the seat belt.

Fastening and releasing the seat belt

1. Fastening the belt

   Push the tab into the buckle until a clicking sound is heard.

2. Releasing the belt

   Press the release button.

Seat belt guide

The seat belt guides are attached on the shoulders of the front seats so that smaller front occupants can easily use the seat belts.

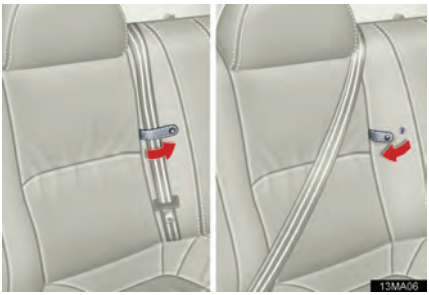
When you get into or out of the rear seats, release the seat belt from the seat belt guide.

Front seat belt pretensioners

The pretensioner helps the seat belt to quickly restrain the occupant by retracting the seat belt when the vehicle is subjected to certain types of severe frontal collision.

The pretensioner may not activate in the event of a minor frontal impact, a side impact or a rear impact.

Rear seat belt holders



Hold the rear seat belt with the holder when not in use.

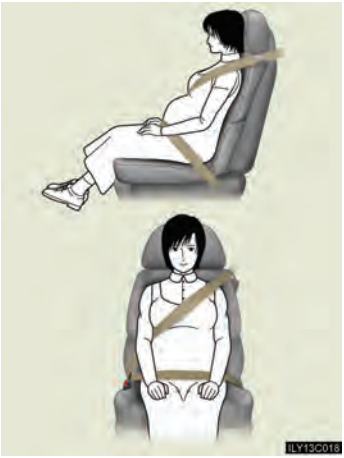
Emergency locking retractor (ELR)

The retractor will lock the belt during a sudden stop or on impact. It may also lock if you lean forward too quickly. A slow, easy motion will allow the belt to extend, and you can move around fully.

Automatic locking retractor (ALR)

When a passenger's shoulder belt is completely extended and then retracted even slightly, the belt is locked in that position and cannot be extended. This feature is used to hold the child restraint system (CRS) firmly. To free the belt again, fully retract the belt and then pull the belt out once more. (→P.90)

■ Pregnant women



Obtain medical advice and wear the seat belt in the proper way. (→P.35)

Women who are pregnant should position the lap belt as low as possible over the hips in the same manner as other occupants. Extend the shoulder belt completely over the shoulder and position the belt across the chest. Avoid belt contact over the rounding of the abdominal area.

If the seat belt is not worn properly, not only a pregnant woman, but also the fetus could suffer death or serious injury as a result of sudden braking or a collision.

■ People suffering illness

Obtain medical advice and wear the seat belt in the proper way. (→P.35)

■ Child seat belt usage

The seat belts of your vehicle were principally designed for persons of adult size.

- Use a child restraint system appropriately for the child, until the child becomes large enough to properly wear the vehicle's seat belt. (→P.82)
- When the child becomes large enough to properly wear the vehicle's seat belt, follow the instructions on P.35 regarding seat belt usage.

■ Replacing the belt after activation of the pretensioner

If the vehicle is involved in multiple collisions, the pretensioner will activate for the first collision, but will not activate for the second or subsequent collisions.

Seat belt extender

If your seat belts cannot be fastened securely because they are not long enough, a personalized seat belt extender is available from your Lexus dealer free of charge.

When not in use, remove the extender and store in the vehicle.

CAUTION

Observe the following precautions to reduce the risk of injury in the event of sudden braking or an accident. Failing to do so may cause death or serious injury.

Wearing a seat belt

- Ensure that all passengers wear a seat belt.
- Always wear a seat belt properly.
- Each seat belt should be used by one person only. Do not use the seat belt for more than one person at the same time, including children.
- Children should be seated in the rear seat and always use a seat belt and/or an appropriate child restraint system.
- Do not recline the seat any more than necessary to achieve a proper seating position. The seat belt is most effective when the occupants are sitting up straight and well back in the seats.
- Do not wear the shoulder belt under your arm.
- Always wear your seat belt low and snug across your hips.

CAUTION

Seat belt pretensioners

- Do not place anything, such as a cushion, on the front passenger's seat. Doing so will disperse the passenger's weight, which prevents the sensor from detecting the passenger's weight properly. As a result, the seat belt pretensioner for the front passenger's seat may not activate in the event of a collision.
- If the pretensioner has activated, the seat belt becomes locked: it cannot be further extended, nor will it return to the stowed position. The seat belt cannot be used again and must be replaced at your Lexus dealer.

Child restraint lock function belt

Do not allow children to play with the child restraint lock function belt.

Seat belt damage and wear

- Do not damage the seat belts by allowing the belt, plate or buckle to be jammed in the door.
- Inspect the seat belt system periodically. Check for cuts, fraying, and loose parts. Do not use a damaged seat belt until it is replaced. Damaged seat belts cannot protect an occupant from death or serious injury.
- Ensure that the belt and tab are locked and the belt is not twisted. If the seat belt does not function correctly, immediately contact your Lexus dealer.
- Replace the seat assembly, including the belts, if your vehicle has been involved in a serious accident, even if there is no obvious damage.
- Do not attempt to install, remove, modify, disassemble or dispose of a seat belt. Have any necessary repairs carried out by your Lexus dealer. Inappropriate handling of the pretensioner may cause it to activate or operate improperly and may cause death or serious injury.

CAUTION

Using seat belt extender

- Do not wear the seat belt extender, if you can fasten the seat belt without the extender.
- Do not use the seat belt extender when installing a child restraint system, because the belt will not securely hold the child restraint system, increasing the risk of death or injury in the event of a collision.
- The personalized extender may not be safe on another vehicle, when used by another person, or at a different seating position other than the one originally intended.

When using the seat belt guide

- Always make sure that the belt is not twisted, and runs freely through the guide.
- Always adjust the seat belt, guide and seat position to ensure snug fit and comfort.

Before fastening the rear seat belt

Release the seat belt holder.

NOTICE

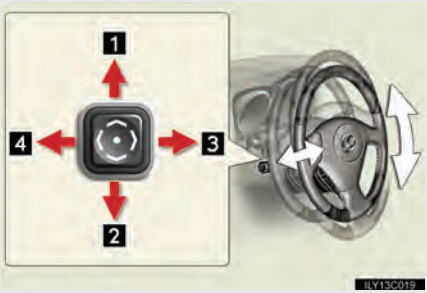
When using a seat belt extender

When releasing the seat belt, press on the buckle release button on the extender, not on the seat belt.

This helps prevent damage to the vehicle interior and the extender itself.

Steering wheel

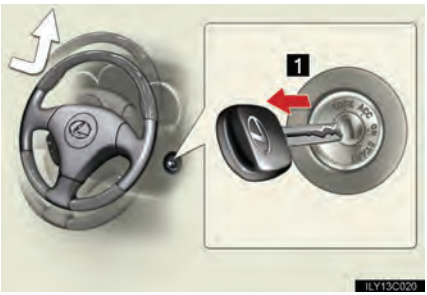
The steering wheel can be adjusted to a comfortable position for the driver while the key is inserted in the engine switch.



1 Up
2 Down
3 Toward the driver
4 Away from the driver

Auto tilt away and auto return

The steering wheel returns to its stowed position by moving up and away to enable easier driver entry and exit.*



1 Remove

Reinserting the key will return the steering wheel to the memorized position.

* This feature can be deactivated (→P.355)

■ Steering column does not move

The steering column adjuster will not operate, if the key is left in the locked position for more than 30 minutes. To adjust the steering wheel position, turn the key to ON or remove the key from the engine switch and reinsert it.

■ Customization that can be configured at Lexus dealer

Setting of auto tilt away function can be changed. (Customizable features →P.355)

CAUTION

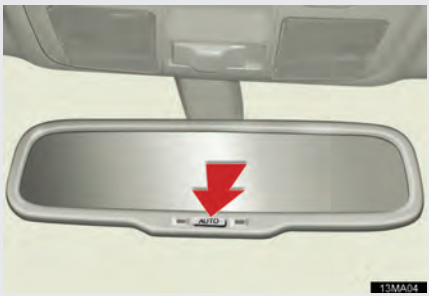
Caution while driving

Do not adjust the steering wheel or column while driving.

Doing so may cause the driver to mishandle the vehicle and an accident, resulting in death or serious injury.

Inside rear view mirror

In "AUTO" mode, the inside and outside mirror surfaces dim slightly to prevent the driver's vision being affected by the headlights of other vehicles.



"DAY" mode:

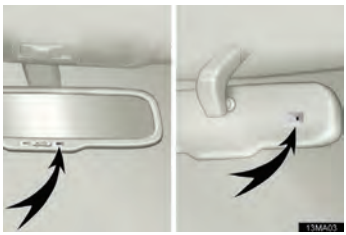
The mirror reflects normally.

"AUTO" mode:

The mirror surfaces dim automatically to reduce the reflected light.

Pushing the switch changes the mode between "AUTO" and "DAY". The indicator comes on when the "AUTO" mode is selected.

To prevent sensor error



To ensure correct functioning of the sensors, do not touch or cover the sensors.

CAUTION

Caution while driving

Do not adjust the position of the mirror while driving.

Doing so may lead to mishandling of the vehicle and an accident, or resulting in death or serious injury.

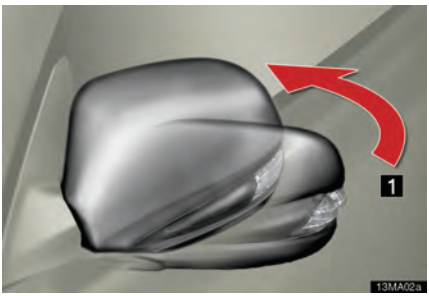
Outside rear view mirrors

Adjust the mirror angle using the switch.

1 Select a mirror to adjust (L: left or R: right).

2 Adjust the mirror up, down, in or out using the switch.

Folding the mirrors



1 Push inward.

Adjusting the mirrors downward when reversing

STEP 1 Put the transmission selector lever in the "R" position.

STEP 2 Move the mirror switch to the "L" or "R" position.

The mirrors will return to their previous position if one of the following occurs:

- The selector lever is moved to a position other than "R".
- The mirror switch is moved to the neutral position.
- The engine switch is set to ACC.

Mirror operating conditions

The engine switch must be turned to ACC or ON.

When the mirrors are fogged up

Turn on the mirror heaters to defog the mirrors. (→P.155)

CAUTION

When driving the vehicle

Observe the following precautions while driving.

Failing to do so may result in losing control of the vehicle and cause an accident, resulting in death or serious injury.

- Do not adjust the mirror while driving.
- Do not drive with the mirrors folded inward.
- Both the driver and passenger side mirrors must be extended and properly adjusted before driving.

When the mirror heaters are operating

- Do not touch the mirror surface as the mirror surface becomes hot.
- Do not touch the mirror surface when the wiper switch is on and the outside temperature is lower than 77°F (25°C).

NOTICE

If ice should jam the mirror

Do not operate the control or scrape the mirror face. Use a spray de-icer to free the mirror.

Power windows

The power windows can be opened and closed using the following switches:

1 Closing
2 One-touch closing*
3 Opening
4 One-touch opening*

* Pushing the switch in the opposite direction will stop window travel partway.

Lock switch

1 Press the switch down to lock passenger window switches.

Use this switch to prevent children from accidentally opening or closing a passenger window.

Power window operating conditions

The engine switch must be turned to ON.

Integrated door lock window operation

The power windows can be opened and closed using the key, or opened using the wireless remote control. (→P.18, P.21)

Retained accessory power operation

The power windows can be operated for approximately 45 seconds after the engine has been stopped. They cannot, however, be operated once the either side door is opened.

Jam protection function

If an object becomes caught between the window and the window frame, window travel is stopped and the window is opened slightly.

Initializing the power windows

After the battery is reconnected, replaced or recharged, you will need to initialize the power windows. Otherwise, the jam protection function will not operate correctly.

To initialize the power windows:

STEP 1 Lower each window halfway using the power window on the door for that window.

STEP 2 Close each window and continue holding the switch for a second, after the window has fully closed.

Make sure the windows open and close correctly. If not, see your Lexus dealer.

Customization that can be configured at Lexus dealer

Settings (e.g. Integrated door key operation) can be changed. (Customizable features →P.355)

CAUTION

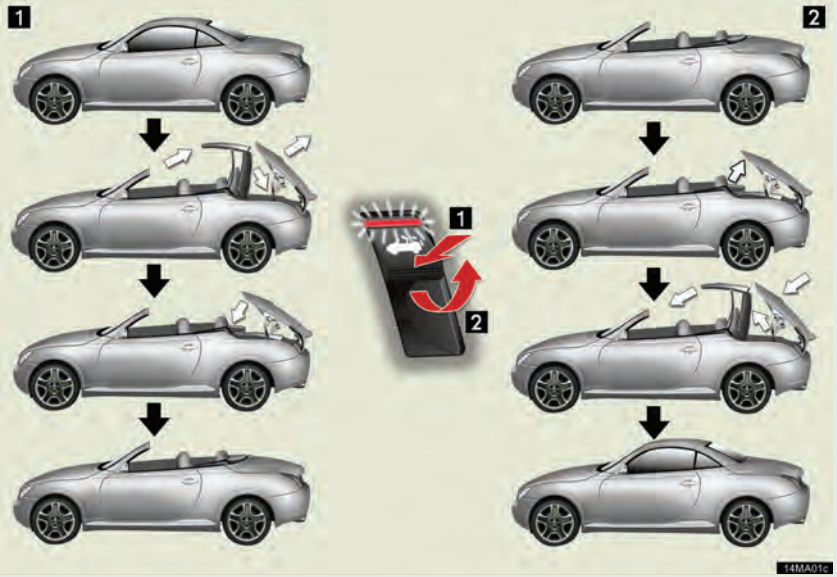
When closing a window

Observe the following precautions. Failing to do so may result in death or serious injury.

- Check to make sure that all passengers do not have any part of their body in a position where it could be caught when a window is being operated.
- Do not allow children to operate the power windows.
- Never try jamming any part of your body to activate the jam protection function intentionally.
- The jam protection function may not work, if something gets caught just before the window fully closes.

Retractable hardtop

The retractable hardtop is opened or closed with a switch located on the automatic air conditioning control panel.



1 Opening

Hold down the switch.

2 Closing

Pull up the switch.

The indicator remains on while the retractable hardtop is operating. When the retractable hardtop is fully opened or closed, the indicator goes off and a beep sounds.

■ **The retractable hardtop can only be operated when**

- The engine switch is turned to ON.
- The trunk lid is closed.
- The trunk lid opener main switch is ON. (→P.25)
- The luggage cover in the trunk is properly set. (For opening) (→P.194)

When the vehicle is on an incline or on a step, the retractable hardtop may not activate properly.

■ **If the indicator blinks and the retractable hardtop will not activate**

If all of the conditions above are fulfilled, perform either of the following and then operate the retractable hardtop.

- Start the engine.
- Put the selector lever in P.

■ **If the indicator remains on or off with the switch operated, and the retractable hardtop does not activate**

Have your vehicle checked by your Lexus dealer.

■ **If the quarter windows are not opened (closed) completely with the retractable hardtop fully opened (closed)**

Hold down the switch on the "OPEN" (CLOSE) side again.

■ **Closing the side windows after or when the retractable hardtop is closed fully**

Pull up the switch.

■ **If a beep continues sounding**

Stop your vehicle in a safe place and immediately either open or close the retractable hardtop fully.

Audio sound adjustment

When you open or close the retractable hardtop, audio sound is automatically adjusted. (→P.173)

CAUTION

To avoid serious injury, you must do the following:

When opening or closing the retractable hardtop

- Be sure to stop your vehicle in a safe place.
- Make sure all passengers and surrounding persons are clear of the mechanism. If someone does become caught in the mechanism, release the switch immediately to cease operation.
- Keep hands away from the hinges of the hardtop side rails and any other part of the hardtop linkage mechanism.
- Do not release the switch in the middle of operation unless absolutely necessary. The roof will gradually lower, resulting in personal injury and damage to the hardtop mechanism.
- Do not operate in strong winds.

While the vehicle is moving

- The vehicle should never be driven with the retractable hardtop partially open.
- While the vehicle is moving with the hardtop open, passengers should not stand on the seats, nor sit on or lean over the package tray.

When small children are in the vehicle

- Never leave small children alone in the vehicle, especially if the key is inserted, as they may accidentally become trapped in the retractable hardtop or windows.
- Never let small children operate the retractable hardtop switch.

NOTICE

■ **When opening or closing the retractable hardtop**

- Make sure there is nothing above the vehicle.
- Make sure there are no items or packages in the package tray.
- Do not sit or place excessive weight on the hardtop.
- Do not open or close the hardtop when the temperature is below -4°F (-20°C), or if the side windows or quarter windows are frozen shut.
  If it is necessary to open the hardtop, side or quarter windows, warm the vehicle in a heated garage prior to operation.
- Do not open the hardtop if it is wet. Possible interior water damage, water stains or mildew may result.
- When the hardtop has been retracted, keep the rear window defogger turned off.
- Do not open the trunk when the hardtop is not fully closed or opened.
- Do not open or close the hardtop repeatedly within a short time. If the motor prevention circuit activates, hardtop operation is disabled. In this case, turn the engine switch off and attempt operation again after a short wait.
- Do not place anything on the luggage cover.
- If the luggage cover is not closed securely, hardtop operation may be interfered with.

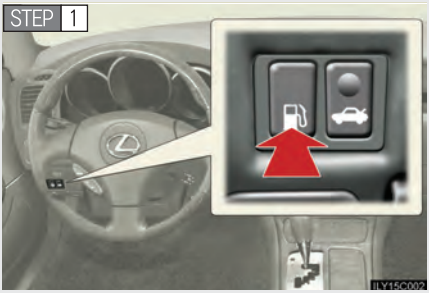
Removing the fuel tank cap

Perform the following steps to remove the fuel tank cap.

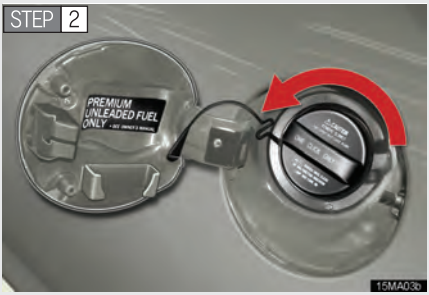
Before refueling the vehicle

Stop the engine and ensure that all the doors and windows are closed.

Removing the fuel tank cap



Push the fuel filler door opener to open the fuel filler door.



Turn the fuel tank cap slowly to remove.

Hang the fuel tank cap on the back of the fuel filler door.

Replacing the fuel tank cap

After refueling, turn the cap clockwise until you hear a click. Once you hear the click, release the fuel cap.
The cap will revolve slightly in the opposite direction.

Fuel types

Use premium unleaded gasoline (91 Octane Rating [Research Octane Number 96] or higher). (→P.330)

Fuel tank capacity

The fuel tank has a capacity of approximately 19.8 gal. (75 L, 16.5 Imp.gal.).

In case the fuel filler door does not function

This is used in case the fuel filler door cannot be opened due to a discharged battery or other trouble.

CAUTION

Refueling the vehicle

Observe the following precautions while refueling the vehicle. Failure to do so may result in death or serious injury.

- Touch the vehicle or some other metal surface to discharge any static electricity. Sparks resulting from discharging static electricity may cause the fuel vapors to ignite.
- Always hold the grip on the fuel tank cap and turn it slowly to remove it. A whooshing sound may be heard when the fuel tank cap is loosened. Wait until the sound cannot be heard before fully removing the cap. In hot weather, pressurized fuel may spray out the filler neck and cause injury.
- Do not allow anyone that has not discharged static electricity from their bodies, to come close to an open fuel tank.
- Do not inhale vaporized fuel.
  Fuel contains substances that are harmful to the human body, if inhaled.
- Do not smoke while refueling the vehicle.
  Doing so may cause the fuel to ignite and cause a fire.
- Do not return to the vehicle or touch any person or object that is statically charged.
  This may cause static electricity to build up, resulting in a possible ignition hazard.

Fuel cap precaution

Do not use anything but a genuine Lexus fuel tank cap designed for your vehicle. Failure to do so may cause a fire or other incident which may result in death or serious injury.

NOTICE

■ **Refueling**

Observe the following precautions when refueling the vehicle.

Failing to do so may damages the vehicle, such as causing the exhaust systems to operate abnormally or damaging fuel system components or the vehicle's painted surface.

- Do not use any type of gasoline other than as recommended. (→P.330)
- Do not spill fuel during refueling.

Engine immobilizer system

The vehicle's keys have built-in transponder chips that prevent the engine from starting, if the key has not been previously registered in the vehicle's on-board computer.
Never leave the keys inside the vehicle when you leave the vehicle.

The indicator light flashes to indicate that the system is operating, after the engine switch has been turned to the LOCK position.

System maintenance

The vehicle has a maintenance-free type of engine immobilizer system.

Conditions that may cause the system to malfunction

- If the grip portion of the key is in contact with a metallic object.
- If the key is in close proximity to or touching a key to the security system (key with a built-in transponder chip) of another vehicle.

Certifications for the engine immobilizer system (for vehicles sold in U.S.A.)

FCC ID: MOZRI-4ATY(a)

This device complies with Part 15 of the FCC Rules.

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

FCC WARNING:

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

Certifications for the engine immobilizer system (for vehicles sold in Canada)

Operation is subject to the following two conditions:

(1) This device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

NOTICE

For proper system operation

Do not modify, remove of disable the engine immobilizer system. If any unauthorized changes or modifications are made, proper operation of the system cannot be guaranteed.

Alarm

The system sounds the alarm and flashes lights when forcible entry is detected.

Triggering the alarm

The alarm is triggered in the following situations.

- A locked door or trunk is unlocked or opened in any way other than using wireless remote door lock function or using the key. (The doors will lock again automatically)
- The hood is opened while the vehicle is locked.

Setting the alarm system

Shut the retractable hardtop if it is opened. After exiting the vehicle, close the doors, trunk and hood, and lock both side doors. The system will be set automatically after 30 seconds.

The indicator light changes from being on to flashing when the system is set.

Deactivating or stopping the alarm

Do one of the following to deactivate or stop the alarm.

- Unlock the doors or trunk.
- Start the engine. (The alarm will be deactivated or stopped after a few seconds.)

Items to check before locking the vehicle

To prevent unexpected triggering of the alarm and vehicle theft, make sure of the following.

- Nobody is in the vehicle.
- The windows and retractable hardtop are closed before the alarm is set.
- No valuables or other personal items are left in the vehicle.

Triggering of the alarm

The alarm may be triggered in the following situations.
(Stopping the alarm deactivates the alarm system.)

- A person inside the vehicle opens a door, the trunk or hood.
- The battery is recharged or replaced when the vehicle is locked.

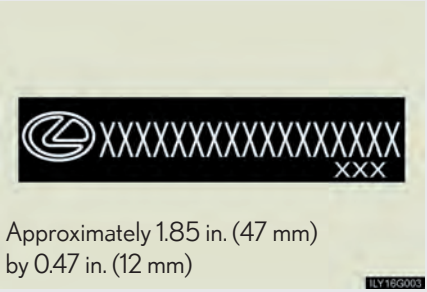
Panic mode

When "PANIC" button is pushed for longer than about one second, the headlights/tail lights/emergency flashers will flash, the interior lights will come on, and an alarm will sound for about 60 seconds to deter any person from trying to break into or damage your vehicle.

To stop the alarm, push any button on the wireless remote control.

Theft prevention labels (U.S.A. Only)

Your new vehicle carries theft prevention labels.



Approximately 1.85 in. (47 mm) by 0.47 in. (12 mm)

These labels are attached to the vehicle to reduce vehicle theft by facilitating the tracing and recovery of parts from stolen vehicles. Do not remove under penalty of law.

Correct driving posture

Drive with good posture as follows:

1. Sit upright and well back in the seat. (→P.28)
2. Adjust the position of the seat forward or backward to ensure the pedals can be reached and easily depressed to the extent required. (→P.28)
3. Adjust the seatback so that the controls are easily operable. (→P.28)
4. Adjust the tilt and telescopic positions of the steering wheel downward so the airbag is facing your chest. (→P.42)
5. Lock the head restraint in place with the center of the head restraint closest to the top of your ears. (→P.33)
6. Wear the seat belt correctly. (→P.35)

CAUTION

When driving:

- Do not adjust the position of the driver's seat while driving.
  Doing so could cause the driver to lose control of the vehicle.
- Do not place a cushion between the driver or passenger and the seat back.
  A cushion may prevent correct posture from being achieved and reduce the effect of the seat belt and head restraint, increasing the risk of death or serious injury to the driver or passenger.
- Do not place anything under the front seats.
  Objects placed under the front seats may become jammed in the seat tracks and stop the seat from locking in place. This may lead to an accident. The adjustment mechanism may also be damaged.

Adjusting the seat position:

- Do not recline the seat more than necessary when the vehicle is in motion, to reduce the risk of sliding under the lap belt.
  If the seat is too reclined during an accident, the lap belt may slide past the hips and apply restraint forces directly to the abdomen, or your neck may contact the shoulder belt, increasing the risk of death or serious injury.
- Take care when adjusting the seat position, to ensure that other passengers are not injured by the moving seat.
- Do not put your hands under the seat or near the moving parts, to avoid injury to hands or fingers.
  Fingers or hands may become jammed in the seat mechanism.

SRS airbags

The SRS airbags inflate when the vehicle is subjected to certain types of severe impacts that may cause significant injury to the occupants. They work together with the seat belts, to help reduce the risk of death or serious injury.

▶ Front airbags

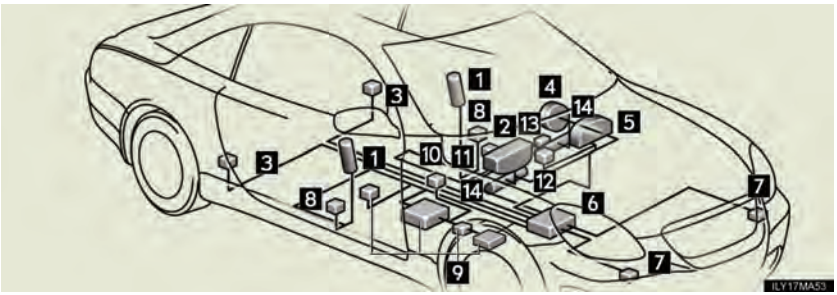
1 Driver airbag/front passenger airbag
Can help protect the head and chest of the driver and front passenger from impact with interior components.

2 Knee airbags
Can help provide driver and front passenger protection.

▶ Side airbags

3 Side airbags
Can help protect the torso of the front seat occupants.

Airbag system components



1 Side airbags
2 Front passenger airbag
3 Side airbag sensors
4 Driver airbag
5 SRS warning light
6 Airbag sensor assembly
7 Front airbag sensors
8 Door side airbag sensors
9 Occupant detection system (ECU and sensor)
10 Front passenger's seat belt buckle switch
11 Driver's seat belt buckle switch
12 Front passenger airbag on-off indicator light
13 Driver's seat position sensor
14 Knee airbags

Your vehicle is equipped with ADVANCED AIRBAGS designed based on US motor vehicle safety standards (FMVSS208). The airbag system controls airbag deployment power for the driver and front passenger. The driver airbag system consists of the driver seat's position sensor etc. The front passenger's airbag system consists of the front passenger occupant classification sensor etc.

The main SRS airbag system components are shown above. The SRS airbag system is controlled by the airbag sensor assembly. The airbag sensor assembly consists of a safing sensor and an airbag sensor.

In certain types of severe frontal or side impacts, the SRS airbag system triggers the airbag inflators. A chemical reaction in the inflators quickly fills the airbags with non-toxic gas to help restrain the motion of the occupants.

■ If the SRS airbags deploy (inflate)

- Bruising and slight abrasions may result from contact with a deploying (inflating) SRS airbag.
- A loud noise and white powder may be emitted.
- Parts of the airbag module (steering wheel hub, airbag cover and inflator), as well as the front seats, may be hot for several minutes, and the airbags themselves will be hot.
- The front windshield may crack.

■ Operating conditions (front airbags)

- The SRS front airbags will deploy if the severity of the frontal impact is above the designed threshold level, comparable to an approximate 15 mph (25 km/h) collision, when the vehicle impacts straight into a fixed barrier that does not move or deform.

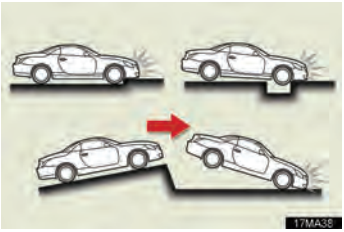
  However, this threshold velocity will be considerably higher, if the vehicle strikes an object, such as a parked vehicle or sign pole, which can move or deform on impact, or if the vehicle is involved in an underride collision (e.g., a collision in which the front of the vehicle "underrides", or goes under, the bed of a truck, etc.).
- It is possible that in some collisions where the forward deceleration of the vehicle is very close to the designed threshold level, the SRS front airbags and the seat belt pretensioners may not activate together.
- The SRS front passenger airbags will not activate, if there is no passenger sitting in the front passenger seat. However, the front passenger airbag may deploy, if heavy luggage is put in the seat, even if the seat is unoccupied. (→P. 77)

■ Operating conditions (side airbags)

- The SRS side airbags are designed to inflate, when the passenger compartment is subjected to a severe impact from the side.
- The SRS side airbag on the passenger seat will not activate, if there is no passenger sitting in the front passenger seat. However, the side airbag on the passenger seat may deploy, if heavy luggage is put in the seat, even if the seat is unoccupied. (→P. 77)

Conditions under which the SRS airbags may deploy (inflate) other than a collision

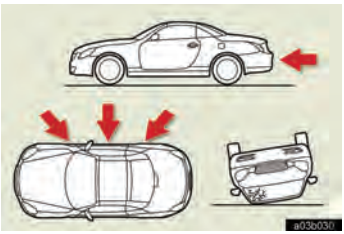
The SRS front airbags may also deploy if a serious impact occurs to the underside of your vehicle. Some examples are shown in the illustration.



- Hitting a curb, edge of pavement or hard surface
- Falling into or jumping over a deep hole
- Landing hard or vehicle falling

Types of collisions that may not deploy the SRS airbag (front airbags)

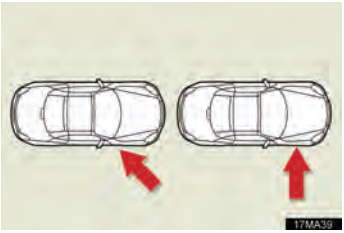
The SRS front airbags are generally not designed to inflate, if the vehicle is involved in a side or rear collision, if it rolls over or if it is involved in a low-speed frontal collision. But, whenever a collision of any type causes sufficient forward deceleration of the vehicle, deployment of the SRS front airbags may occur.



- Collision from the side
- Collision from the rear
- Vehicle rollover

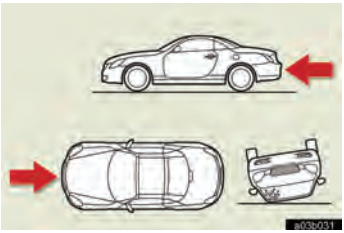
Types of collisions that may not deploy the SRS airbag (side airbags)

The SRS side airbag system may not activate, if the vehicle is subjected to a collision from the side at certain angles or a collision to the side of the vehicle body other than the passenger compartment.



- Collision from the side to the vehicle body other than the passenger compartment
- Collision from the side at an angle

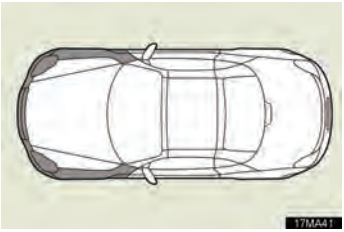
The SRS side airbags are generally not designed to inflate, if the vehicle is involved in a frontal or rear collision, if it rolls over or if it is involved in a low-speed side collision.



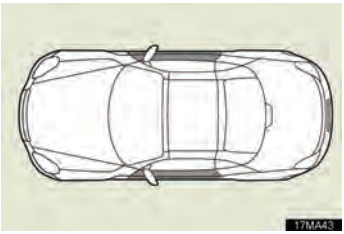
- Collision from the front
- Collision from the rear
- Vehicle rollover

When to contact your Lexus dealer

In the following cases, contact your Lexus dealer as soon as possible. Do not disconnect the battery cables before contacting your Lexus dealer.



- Any of the SRS airbags have been inflated.
- The front of the vehicle (shaded in the illustration) was involved in an accident that was not severe enough to cause the SRS front airbags to inflate.



- The portion of the doors (shaded in the illustration) was involved in an accident that was not severe enough to cause the SRS side airbags to inflate.

- The pad section of the steering wheel, front passenger airbag cover or lower portion of the instrument panel (shaded in the illustration) is scratched, cracked or otherwise damaged.

- The surface of the seats with the side airbag (shaded in the illustration) is scratched, cracked or otherwise damaged.

CAUTION

SRS airbag precautions

Observe the following precautions regarding the airbags. Failure to do so may cause death or serious injury.

- The driver and all passengers in the vehicle must wear their seat belts properly. The SRS airbags are supplemental devices to be used with seat belts.
- The SRS driver airbag deploys with a considerable force, and can cause death or serious injury especially, if the driver is very close to the airbag. The National Highway Traffic Safety Administration ("NHTSA") advises:
  Since the risk zone for driver airbag is the first 2 - 3 in. (50 - 75 mm) of inflation, placing yourself 10 in. (250 mm) from your driver airbag provides you with a clear margin of safety. This distance is measured from the center of the steering wheel to your breastbone. If you sit less than 10 in. (250 mm) away now, you can change your driving position in several ways:
  - Move your seat to the rear as far as you can while still reaching the pedals comfortably.
  - Slightly recline the back of the seat. Although vehicle designs vary, many drivers can achieve the 10 in. (250 mm) distance, even with the driver seat all the way forward, simply by reclining the back of the seat somewhat. If reclining the back of your seat makes it hard to see the road, raise yourself by using a firm, non-slippery cushion or raise the seat if your vehicle has that feature.
  - If your steering wheel is adjustable, tilt it downward. This points the airbag toward your chest instead of your head and neck.

  The seat should be adjusted as recommended by NHTSA above, while still maintaining control of the foot pedals, steering wheel and your view of the instrument panel controls.

CAUTION

SRS airbag precautions

- If the seat belt extender has been connected to the driver's seat belt buckle but the seat belt extender has also not also been fastened to the latch plate of the driver's seat belt, the SRS driver's airbag system will judge that the driver is wearing the seat belt, even though the seat belt has not been connected. In this case, the driver's airbag may not activate correctly, in a collision, resulting in death or serious injury in the event of collision. Be sure to wear the seat belt with the seat belt extender.

- The SRS front passenger airbag also deploys by a considerable force and can cause death or serious injury especially, if the front passenger is very close to the airbag. The front passenger seat should be as far from the airbag as possible with the seatback adjusted, so the front passenger sits upright.

CAUTION

SRS airbag precautions

- Do not sit on the edge of the seat or lean against the dashboard.

- Do not allow a child to stand in front of the SRS front passenger airbag unit or sit on the passenger's knees.
- Do not drive the vehicle while the driver or passenger has something resting on his or her knees.

- Do not lean against the door.

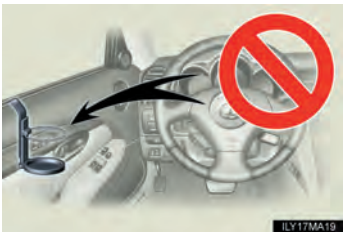
CAUTION

SRS airbag precautions

- Improperly seated and/or restrained infants and children can be killed or seriously injured by the deploying airbags. An infant or child who is too small to use a seat belt should be properly secured using a child restraint system. Lexus strongly recommends that all infants and children be placed in the rear seats of the vehicle and properly restrained. The rear seats are the safest for infants and children. (→P.82)

- Do not allow anyone to kneel on the passenger seat or put their head or hands outside the vehicle.

- Do not attach anything to or lean anything against areas such as the dashboard, steering wheel pad or lower portion of the instrument panel. These items can become projectiles when SRS driver and front passenger and knee airbags deploy.



- Do not attach anything to areas such as the door. These items can become projectiles and seriously injure or kill you, should the SRS side airbag deploy.

- If the vinyl cover is put on the area where the SRS knee airbag will deploy, be sure to remove it.
- When storing items in the net pocket located in the front passenger footwell, take care that the items do not protrude from the top of the net. Protruding items are dangerous, as they cause the SRS knee airbag to not operate correctly, or may be launched at high speeds when the airbag inflates.

CAUTION

SRS airbag precautions

- Do not use seat accessories which cover the parts where the SRS side airbags inflate as they may interfere with inflation of these airbags.
- Do not strike or apply significant levels of force to the area of the SRS airbag components shown on P.67. Doing so could cause a SRS airbags to malfunction.
- Do not touch any of the component parts immediately after the SRS airbag has deployed (inflated) as they become hot.
- If breathing becomes difficult, open a door or window to allow fresh air in, or leave the vehicle if it is safe to do so. Wash off any residue as soon as possible to prevent skin irritation.
- If the areas where the SRS airbags are stored, such as the steering wheel pad, are damaged or cracked, have them replaced by your Lexus dealer.

Modifications and disposal of SRS airbag system components

Do not perform any of the following modifications to or dispose of the vehicle without consulting your Lexus dealer. The SRS airbag may malfunction and may deploy (inflate) accidentally, causing death or serious injury.

- Installation, removal, disassembly and repair of the SRS airbags
- Repairs, modifications, removal or replacement of the steering wheel, instrument panel, dashboard, seats or seat upholstery
- Repair or modification of the front fender, front bumper or side of the occupant compartment
- Installation of snow plows, winches, etc. to the front grille (bull bars, kangaroo bar, etc.)
- Modifications to the vehicle's suspension system
- Installation of electronic devices such as a mobile two-way radio, cassette tape player or CD player
- Modifications to your vehicle for a person with a physical disability.

Front passenger occupant classification system

Your vehicle is equipped with a front passenger occupant classification system. This system detects the conditions of the front passenger seat and activates or deactivates the devices for front passenger.

1 SRS warning light
2 Front passenger's seat belt reminder light
3 AIRBAG ON indicator light
4 AIRBAG OFF indicator light

Condition and operation in the front passenger occupant classification system

Adult*1

Indicator/ warning light	AIRBAG ON and AIRBAG OFF indicator lights	AIRBAG ON
	SRS warning light	Off
	Front passenger's seat belt reminder light	Flashing*2
Devices	Front passenger airbag	Activated
	Front passenger side airbag	
	Front passenger knee airbag	
	Front passenger's seat belt pretensioner	

Child*3 or child restraint system*4

Indicator/ warning light	AIRBAG ON and AIRBAG OFF indicator lights	AIRBAG OFF*5
	SRS warning light	Off
	Front passenger's seat belt reminder light	Flashing*2
Devices	Front passenger airbag	Deactivated
	Front passenger side airbag	
	Front passenger knee airbag	
	Front passenger's seat belt pretensioner	Activated

Unoccupied

Indicator/ warning light	AIRBAG ON and AIRBAG OFF indicator lights	Not illuminated
	SRS warning light	Off
	Front passenger's seat belt reminder light	
Devices	Front passenger airbag	Deactivated
	Front passenger side airbag	
	Front passenger knee airbag	
	Front passenger's seat belt pretensioner	

There is a malfunction in the system

Indicator/ warning light	AIRBAG ON and AIRBAG OFF indicator lights	AIRBAG OFF
	SRS warning light	On
	Front passenger's seat belt reminder light	Off
Devices	Front passenger airbag	Deactivated
	Front passenger side airbag	
	Front passenger knee airbag	
	Front passenger's seat belt pretensioner	Activated

*1: The system judges a person of adult size as an adult. When a smaller adult sits in the front passenger seat, the system may recognize him/her as a child depending on his/her physique and posture.

*2: In the event the front passenger does not wear a seat belt.

*3: When a large child who has outgrown a child restraint system sits in the front passenger seat, the system may recognize him/her as an adult depending on his/her physique or posture.

*4: Never install a rear-facing child restraint system on the front passenger seat. A forward-facing child restraint system should only be installed on the front passenger seat when it is unavoidable. (→P. 95)

*5: In case the indicator is not illuminated, consult this manual as for installing the child restraint system properly. (→P. 86)

CAUTION

Front passenger occupant classification system precautions

Observe the following precautions regarding front passenger occupant classification system.
Failure to do so may cause death or serious injury.

- Wear the seat belt properly.
- Make sure the front passenger's seat belt tab has not been left inserted into the buckle before someone sits in the front passenger seat.
- Make sure the AIRBAG OFF indicator light is not illuminated when using the seat belt extender for the front passenger seat. If the AIRBAG OFF indicator light is illuminated, disconnect the extender tongue from the seat belt buckle, then reconnect the seat belt. Reconnect the seat belt extender after making sure the AIRBAG ON indicator light is illuminated. If you use the seat belt extender while the AIRBAG OFF indicator light is illuminated, the front passenger airbag, side airbag on the front passenger side and front passenger knee airbag may not activate correctly, which could cause death or serious injury in the event of collision.
- Do not apply a heavy load to the front passenger seat or equipment.
- Do not put weight on the front passenger seat by putting your hands or feet on the front passenger seat seatback from the rear passenger seat.
- Do not let a rear passenger lift the front passenger seat with their feet or press on the seatback with their legs.
- Do not put objects under the front passenger seat.
- Do not recline the front passenger seatback so far that it touches a rear seat. This may cause the AIRBAG OFF indicator light to be illuminated, which indicates that the passenger's airbags will not deploy in the event of a severe accident. If the seatback touches the rear seat, return the seatback to a position where it does not touch the rear seat. Keep the front passenger seatback as upright as possible when the vehicle is moving. Reclining the seatback excessively may lessen the effectiveness of the seat belt system.
- If an adult sits in the front passenger seat, the AIRBAG ON indicator light is illuminated, If the AIRBAG OFF indicator is illuminated, ask the passenger to sit up straight, well back in the seat, feet on the floor, and with the seat belt worn correctly. If the AIRBAG OFF indicator still remain illuminated, either ask the passenger to move to the rear seat, or if that is not possible, move the front passenger seat fully rearward.

CAUTION

■ Front passenger occupant classification system precautions

- When it is unavoidable to install the forward-facing child restraint system on the front passenger seat, install the child restraint system on the front passenger seat in the proper order. (→P. 86)
- Do not modify or remove the front seats.
- Do not kick the front passenger seat or subject it to severe impact. Otherwise, the SRS warning light may come on to indicate a malfunction of the detection system. In this case, contact your Lexus dealer immediately.
- Child restraint systems installed on the rear seat should not contact the front seatbacks.
- Do not use a seat accessory, such as a cushion or seat cover, that covers the seat cushion surface.
- Do not modify or replace the upholstery of the front seat.

Child restraint system

A child restraint system for a small child or baby must itself be properly restrained on the seat with the lap portion of the lap/shoulder belt.

The laws of all 50 states of the U.S.A. and Canada now require the use of child restraint system.

Points to remember

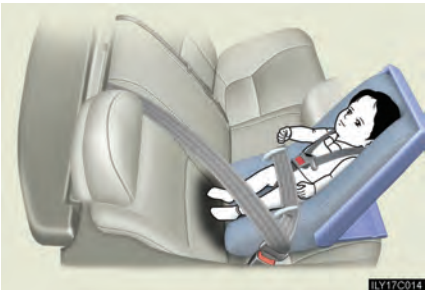
Studies have shown that installing a child restraint system on a rear seat is much safer than installing one to the front passenger seat.

- Choose a child restraint system that suits your vehicle and is appropriate to the age and size of the child.
- For installation details, follow the instructions provided with the child restraint system when installing it.
  General installation instructions are provided in this manual. (→P.86)

Types of child restraint system

Child restraint systems are classified into the following three types according to the age and size of the child.

▶ Rear facing — Infant seat/convertible seat



▶ Forward facing — Convertible seat

▶ Booster seat

■ **Selecting an appropriate child restraint system**

- Use a child restraint system appropriate for the child until the child becomes large enough to properly wear the vehicle's seat belt.
- If a child is too large for any child restraint system, sit the child on a rear seat and use the vehicle's seat belt. (→P.35)

CAUTION

Child restraint precautions

- For effective protection in automobile accidents and sudden stops, a child must be properly restrained, using a seat belt or child restraint system depending on the age and size of the child. Holding a child in your arms is not a substitute for a child restraint system. In an accident, the child can be crushed against the windshield, or between you and the vehicle's interior.
- Lexus strongly urges use of a proper child restraint system which conforms to the size of the child, installed on the rear seat. According to accident statistics, the child is safer when properly restrained in the rear seat than in the front seat.
- Never install a rear-facing child restraint system on the front passenger seat even if AIRBAG OFF indicator light is illuminated. In the event of an accident, the force of the rapid inflation of the front passenger airbag can cause death or serious injury to the child, if the rear-facing child restraint system is installed on the front passenger seat.
- A forward-facing child restraint system may be installed on the front passenger seat only when it is unavoidable. A child restraint system that requires a top tether strap should not be used in the front passenger seat since there is no top tether strap anchor for the front passenger seat. Adjust the seatback as upright as possible. Always move the front passenger seat as far back as possible even if AIRBAG OFF indicator light is illuminated. Because the front passenger airbag could inflate by considerable speed and force even if AIRBAG OFF indicator light is illuminated. Otherwise, the child may be killed or seriously injured.
- Do not use the seat belt extender when installing a child restraint system on the front or rear passenger seat. If installing a child restraint system with the seat belt extender connected to the seat belt, the seat belt will not securely hold the child restraint system, which could cause death or serious injury to the child or other passengers in the event of collision.

CAUTION

Child restraint precautions

- Do not allow the child to lean his/her head or any part of his/her body against the door or the area of the seat from which the side airbags deploy, even if the child is seated in the child restraint system. It is dangerous if the side airbags inflate, and the impact could cause death or serious injury to the child.
- Make sure you have complied with all installation instructions provided by the child restraint manufacturer and that the system is properly secured. If it is not secured properly, it may cause death or serious injury to the child in the event of a sudden stop or accident.

Child restraint lock function belt precaution

Do not allow children to play with the child restraint lock function belt. If the belt becomes twisted around a child's neck, it will not be possible to pull the belt out leading to choking or other serious injuries that result in death. If this occurs and the buckle cannot be unfastened, scissors should be used to cut the belt.

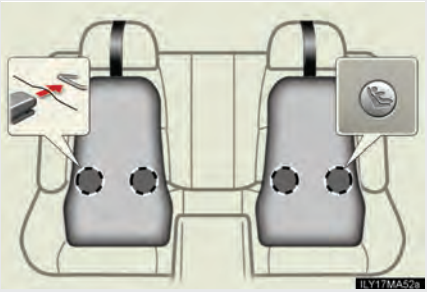
When the child restraint system is not in use

- Keep the child restraint system properly secured on the seat even if it is not in use. Do not store the restraint unsecured in the passenger compartment.
- If it is necessary to detach the child restraint system, remove it from the vehicle or store it securely in the trunk. This will prevent it from injuring passengers in the event of a sudden stop or accident.

Installing child restraints

Follow the child restraint system manufacture's instructions. Firmly secure child restraints to the rear seats using the LATCH anchors or a seat belt. Attach the top tether strap when installing a child restraint.

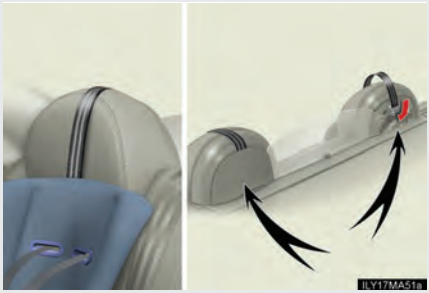
The lap/shoulder belt can be used if your child restraint system is not compatible with the LATCH (Lower Anchors and Tethers for Children) system.



Child restraint LATCH anchors

LATCH anchors are provided for both rear seats. (Buttons displaying the location of the anchors are attached to the seats.)

Seat belts equipped with a child restraint locking mechanism. (ALR/ELR belts except driver's seat belt) (→P.35)

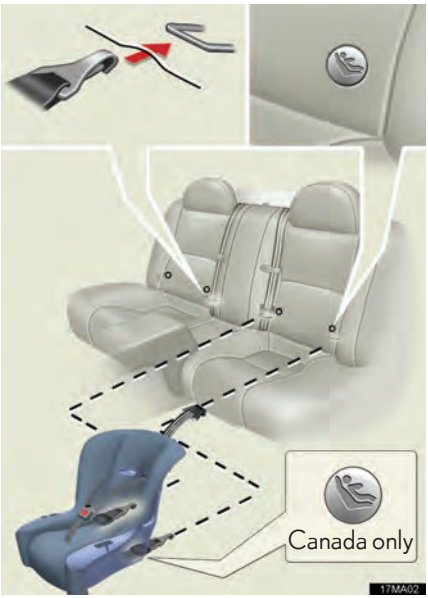


Anchor bracket (for top tether strap)

Anchor brackets are provided for both rear seats.

Installation with LATCH system

▶ Type A

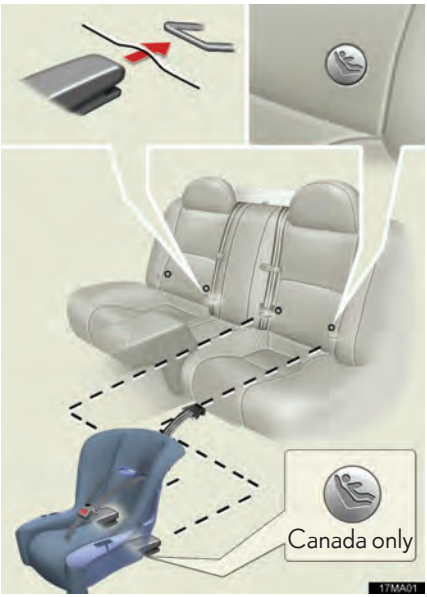


Widen the gap between the seat cushion and seatback slightly. Latch the hooks of the lower straps onto the LATCH anchors.

If the child restraint has a top tether strap, the top tether strap should be latched onto the top tether strap anchors. (→P. 92)

For owners in Canada:
The symbol on a child restraint system indicates the presence of a lower connector system.

▶ Type B



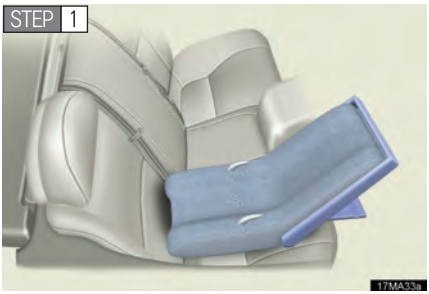
Widen the gap between the seat cushion and seatback slightly. Latch the buckles onto the LATCH anchors.

If the child restraint has a top tether strap, the top tether strap should be latched onto the top tether strap anchors. (→P. 92)

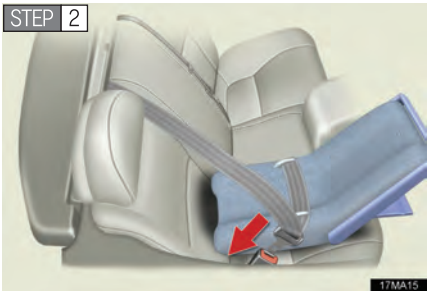
For owners in Canada:
The symbol on a child restraint system indicates the presence of a lower connector system.

Installing child restraints using a seat belt

Rear facing-infant seat/convertible seat



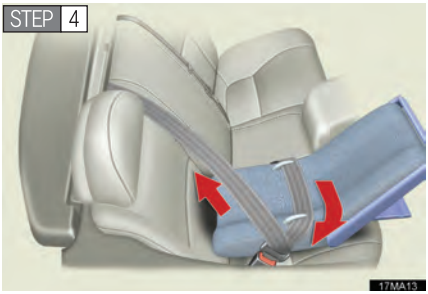
Place a child seat on the rear seat facing the rear of the vehicle.



Run the seat belt through the child seat and insert the plate into the buckle. Make sure that the belt is not twisted.

Fully extend the shoulder belt and then allow it to retract slightly in order to activate the ALR lock mode.

Lock mode allows the seat belt to retract only.



While pushing the child seat down into the rear seat, allow the shoulder belt to retract until the child seat is securely in place.

After the shoulder belt has retracted to a point where there is no slack in the belt, pull the belt to check that it cannot be extended.

Forward facing-Convertible seats

Place a child seat on the seat facing the front of the vehicle.

Run the seat belt through the child seat and insert the plate into the buckle. Make sure that the belt is not twisted.

Fully extend the shoulder strap and then allow it to retract slightly into the ALR lock mode.

Lock mode allows the seat belt to retract only.

STEP 4

While pushing the child seat into the rear seat, allow the shoulder belt to retract until the child seat is securely in place.

After the shoulder belt has retracted to a point where there is no slack in the belt, pull the belt to check that it cannot be extended.

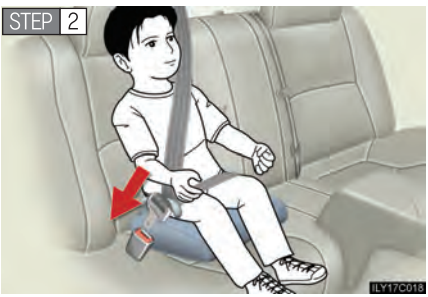
STEP 5 If the child restraint has a top tether strap, the top tether strap should be latched onto the top tether strap anchors. (→P. 92)

Booster seats

STEP 1

Place a booster seat on the seat facing the front of the vehicle.

STEP 2



Sit the child in the child seat. Fit the seat belt to the booster seat according to the child seat manufacture's instructions and insert the plate into the buckle. Make sure that the belt is not twisted.

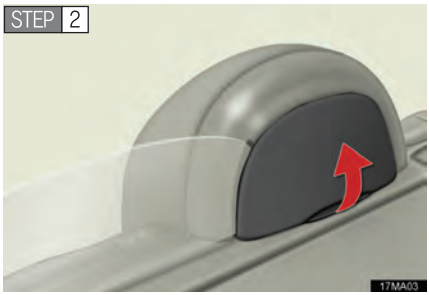
Check that the shoulder belt is correctly positioned over the child's shoulder, and that the lap belt is as low as possible. (→P.64)

Removing child restraint installed with a seat belt

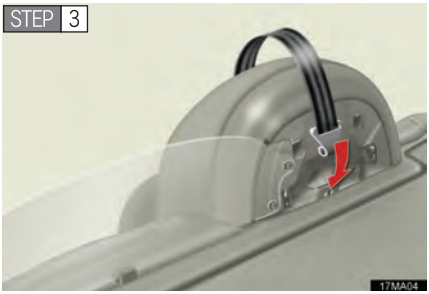
Push the buckle release button and fully retract the seat belt.

Child restraint system with a top tether strap

Secure the child restraint using a seat belt or the lower anchors. (→P.86)

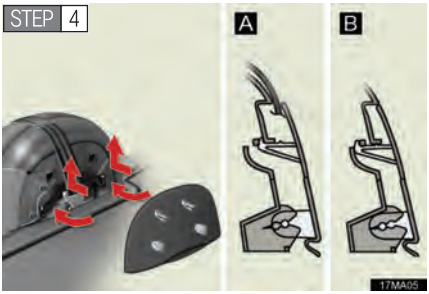


Insert your hand under the rear cover and remove it.



Latch the hook onto the anchorage bracket and tighten the top tether strap.

Make sure the top tether strap is securely latched.



Install the rear cover as shown in the illustration A.

When the top tether strap is not used, install the rear cover as shown in the illustration B.

■ **When installing a top strap**

The retractable hardtop should be opened. (→P.51)

■ **Laws and regulations pertaining to anchorages**

The LATCH system conforms to FMVSS225 or CMVSS210.2.

Child restraint systems conforming to FMVSS213 or CMVSS213 specifications can be used.

This vehicle is designed to conform to the SAE J1819.

CAUTION

When installing a booster seat

Do not fully extend the child's shoulder belt, to prevent the belt from going to ALR lock mode: (→P.37)

- ALR mode causes the belt to tighten only which could cause injury or discomfort to the child.

CAUTION

When installing the child restraint system

Follow the directions given in the child restraint system installation manual and fix the child restraint system securely in place.

If the child restraint system is not correctly fixed in place, the child or other passengers may be injured or even killed in the event of sudden braking or an accident.

- If the driver's seat position does not allow sufficient space for safe installation on the left-hand rear seat, install the child restraint on the right-hand rear seat.

- Only put a forward-facing or booster child seat on the front seat when unavoidable. When installing a forward-facing or booster child seat on the front passenger seat, move the seat as far back as possible even if AIRBAG OFF indicator light is illuminated.
  Failing to do so may result in injury or even death if the airbags deploy (inflate).

- When a booster seat is installed, always ensure that the shoulder belt is positioned across the center of the child's shoulder. The belt should be kept away from the child's neck, but not so that it could fall off the child's shoulder. Failing to do so may result in death or serious injury in the event of an accident or sudden braking.
- Ensure that the belt and tab are securely locked and the seat belt is not twisted.
- Push and pull the child seat from side to side and forward to be sure it is secure.
- After securing a child restraint system, never adjust the seat.
- Follow all installation instructions provided by the child restraint system manufacturer.

CAUTION

■ Do not use the seat belt extender

If using the seat belt extender when installing a child seat, the seat belt will not securely hold the child restraint system, which could cause death or serious injury to the child or other passengers in the event of collision.

■ To correctly attach a child restraint system to the anchors

When using the LATCH anchors, be sure that there are no foreign objects around the anchors and that the seat belt is not caught behind the child restraint. Make sure the child restraint system is securely attached, or it may cause death or serious injury to the child in the event of a sudden stop or accident.

When driving 2

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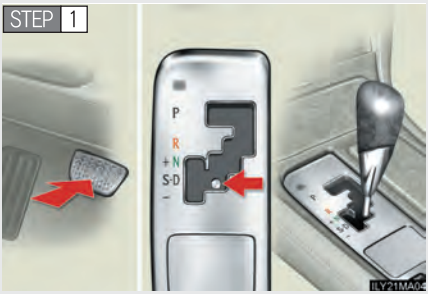
Driving the vehicle

The following procedures should be observed to ensure safe driving.

Starting the engine (→P.107)

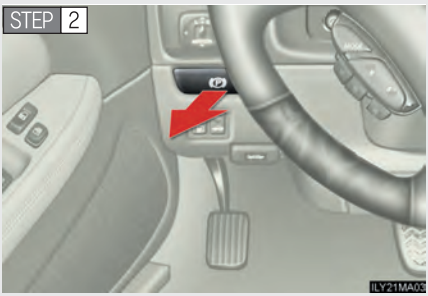
Driving

STEP 1



With the brake pedal depressed, shift the selector lever to D. (→P.110)

STEP 2



Release the parking brake. (→P.115)

STEP 3 Gradually release the brake pedal and gently push the accelerator pedal to accelerate the vehicle.

Stopping

STEP 1 With the selector lever in D, push the brake pedal.

STEP 2 If necessary, set the parking brake. (→P.115)

When the vehicle is stopped for an extended period of time, shift the selector lever to P or N. (→P.110)

Parking the vehicle

STEP 1 With the selector lever in D, depress the brake pedal.

STEP 2 Set the parking brake. (→P.115)

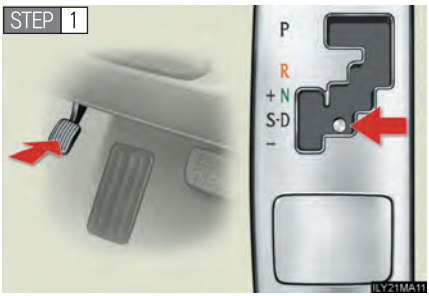
STEP 3 Shift the selector lever to P. (→P.110)

STEP 4 Stop the engine.

STEP 5 Remove the key, go out and lock the doors.

Starting on a steep incline

STEP 1



Firmly set the parking brake and shift the selector lever to D.

STEP 2 Gently depress the accelerator pedal.

STEP 3 Release the parking brake.

Driving in the rain

- Drive carefully when it its raining, because visibility will be reduced, the windows may become fogged-up, and the road will be slippery.
- Drive carefully when it starts to rain, because the road surface will be especially slippery.
- Refrain from high speeds when driving on an expressway in the rain, because there may be a layer of water between the tires and the road surface, preventing the steering and brakes from operating properly.

Breaking in your new Lexus

To extend the life of the vehicle, observe the following precautions:

For the first 200 miles (300 km):

Avoid sudden stops.

For the first 1000 miles (1600 km):

- Do not drive at excessively high speeds.
- Avoid full throttle acceleration.
- Do not continue to drive in a low gear.
- Do not drive for a long time at any single speed.

Operation in foreign countries

Comply with the relevant vehicle registration laws and confirm the availability of the correct fuel (→P.337).

CAUTION

When starting the vehicle

Always keep your foot on the brake pedal while stopped with the engine running. This prevents the vehicle from creeping.

CAUTION

When driving the vehicle

- Do not drive if you are unfamiliar with the location of the brake and accelerator pedals to avoid depressing the wrong pedal.
  - Accidentally depressing the accelerator pedal instead of the brake pedal will result in sudden acceleration that may lead to an accident that could result in death or serious injury.
  - When backing up, you may twist your body around, leading to a difficulty in operating the pedals. Make sure to operate the pedal properly.
  - Make sure to keep a correct driving posture even when moving the vehicle only slightly, allowing you to depress the brake and accelerator pedals properly.
  - Depress the brake pedal using your right foot. Depressing the brake pedal using your left foot may delay response in an emergency, resulting in an accident.
- Do not drive the vehicle over or stop the vehicle near flammable materials.
- Do not let the vehicle roll backwards while the selector lever is in a driving position, or roll forward while the selector lever is in R.
  Doing so may cause the engine not to operate or lead to poor brake and steering performance, resulting in an accident or damage to the vehicle.
- If the smell of exhaust is noticed inside the vehicle, open the windows and check that the trunk is closed. Large amounts of exhaust in the vehicle can cause driver drowsiness and an accident, resulting in death or a serious health hazard. Have the vehicle inspected by your Lexus dealer immediately.

CAUTION

- Do not shift the selector lever to P, R or N while the vehicle is moving under any circumstances.
  Doing so can cause significant damage to the transmission system and may result in a loss of vehicle control.
- Do not turn the engine off while driving.
  The power steering and brake booster systems will not operate properly, if the engine is not running.
- Use engine braking (downshift) to maintain a safe speed when driving down a steep hill.
  Using the brakes continuously may cause the brakes to overheat and lose effectiveness. (→P.110)
- Do not shift the selector lever to N.
  Doing so may cause the engine brake to not operate properly and lead to an accident.
- When stopped on an inclined surface, use the brake pedal and parking brake to prevent the vehicle from rolling backward or forward and causing an accident.

While driving the vehicle

- Do not adjust the position of the steering wheel, seat, or mirror while driving.
  Doing so may result in losing control of the vehicle and cause an accident, which may cause death or serious injury.
- Always check that passengers' arms, heads or other parts of their bodies are not outside the vehicle, as this may result in death or serious injury.

CAUTION

When driving on slippery road surfaces

- Sudden braking, acceleration and steering may cause tire slippage and reduce your ability to control the vehicle, resulting in an accident.
- Sudden changes in engine speed, such as engine braking caused by up-shifting or down-shifting, may cause the vehicle to skid, resulting in an accident.
- After driving through a puddle, lightly depress the brake pedal to make sure that the brakes are functioning properly. Wet brake pads may prevent the brakes from functioning properly. If the brakes on only one side are wet and not functioning properly, steering control may be affected, resulting in an accident.

When shifting the selector lever

Be careful not to shift the shift lever with the accelerator pedal depressed.

This may lead to unexpected rapid acceleration of the vehicle that may cause an accident and result in death or serious injury.

When the vehicle is stopped

- Do not race the engine.
  If the vehicle is in any gear other than P or N, the vehicle may accelerate suddenly and unexpectedly, and may cause an accident.
- Do not leave the vehicle with the engine running for a long time.
  If such a situation cannot be avoided, park the vehicle in an open space and check that exhaust fumes do not enter the vehicle interior.
- Always keep a foot on the brake pedal while the engine is running, to prevent an accident caused by the vehicle moving.

CAUTION

When the vehicle is parked

- Do not leave glasses, cigarette lighters, spray cans or soft drink cans in the vehicle when it is in the sun.
  - Gas may leak from a cigarette lighter or spray can and may lead to a fire.
  - The temperature inside the vehicle may cause the plastic lenses and plastic material of eye glasses to deform or crack.
  - Soft drink cans may fracture, causing the contents to spray over the interior of the vehicle, and may also cause a short circuit in the vehicle's electrical components.
- Always apply the parking brake, shift the selector lever to P, stop the engine and lock the vehicle.
  Do not leave the vehicle unattended while the engine is running.
- Do not touch the exhaust pipe while the engine is running or immediately after turning the engine off.
  Doing so may cause burns.
- Do not leave the engine running in an area with snow build-up, or where it is snowing. If snowbanks build up around the vehicle while the engine is running, exhaust gases may collect and enter the vehicle.
  This may lead to death or a serious health hazard.

Exhaust gases

Exhaust gases include harmful carbon monoxide (CO) that is colorless and odorless. Inhaling exhaust gases may lead to death or a serious health hazard.

- If the vehicle is in a poorly ventilated area, stop the engine. In a closed area, such as a garage, exhaust gases may collect and enter the vehicle. This may lead to death or a serious health hazard.
- The exhaust should be checked occasionally. If there is a hole or crack caused by corrosion, damage to a joint or abnormal exhaust noise, be sure to have the vehicle inspected and repaired by your Lexus dealer. Failure to do so may allow exhaust gases to enter the vehicle, resulting in death or a serious health hazard.

CAUTION

When taking a nap in the vehicle

Always turn the engine off. Otherwise, you may accidentally move the shift lever or depress the accelerator pedal, which could cause an accident or fire due to engine overheating. Additionally, if the vehicle is parked in a poorly ventilated area, exhaust gases may collect and enter the vehicle, leading to death or a serious health hazard.

When braking the vehicle

- When the brake are wet, drive more cautiously.
  Braking distance increases when the brakes are wet, and may cause one side of the vehicle to brake differently than the other side. Also the parking brake may not securely hold the vehicle.
- If the power brake assist function does not operate, do not follow other vehicles closely and avoid downhill or sharp turns that require making.
  Braking is still possible, but it will require more force on the pedal than usual. Braking distance may also increase.
- Do not pump the brake pedal if the engine stalls. Each push on the brake pedal uses up the reserve for the power-assisted brakes.
- The brake system consists of 2 individual hydraulic systems: if one of the systems fails, the other will still operate. In this case, the brake pedal should be depressed more firmly than usual and braking distance becomes longer.
  Do not drive your vehicle with only a single brake system. Have your brakes fixed immediately.

NOTICE

While driving the vehicle

Do not use the accelerator pedal or depress accelerator and brake pedals together to hold the vehicle on a hill.

When parking the vehicle

Always put the selector lever in P. The vehicle may begin to move, or the vehicle may accelerate suddenly if the accelerator pedal is accidentally depressed.

NOTICE

■ **Avoiding damage to vehicle parts**

- Do not turn the steering wheel fully in either direction and hold it there for a long time. Doing so may damage the power steering pump.
- When driving over bumps in the road, drive as slowly as possible to avoid damaging the wheels, underside of the vehicle, etc.

■ **If you hear a squealing or scraping noise (brake pad wear limit indicators)**

Have your Lexus dealer check and replace the brake pads as soon as possible.

The rotor damage can result, if the pads are not replaced when needed.

■ **If a malfunction is detected while driving**

A flat or damaged tire may cause the following situations. Hold the steering wheel firmly and gradually press the brake pedal to slow down the vehicle.

- It may be difficult to control your vehicle.
- The vehicle will make abnormal sounds.
- The vehicle will behave abnormally.

Replace a flat tire with a new one. (→P.295/297)

■ **When encountering flooded roads**

Do not drive on a road that has flooded after heavy rain etc. Doing so may cause the following serious damage to the vehicle.

- Engine stalling
- Short in electrical components
- Engine damage caused by water immersion

In the event that you drive on a flooded road and the vehicle is flooded, be sure to have your Lexus dealer check the following.

- Brake function
- Changes in quantity and quality of oil and fluid used for the engine, transmission, differential, etc.
- Lubricant condition for the propeller shaft, bearings and suspension joints (where possible) and the function of all joints, bearings, etc.

Engine (ignition) switch

Engine (ignition) switch

1 LOCK:
The steering wheel is locked and the key can be removed.
(The key can be removed only when the shift lever is in "P".)

2 ACC:
The audio system and other accessories can be used when the engine is stopped.

3 ON:
When driving the vehicle, the engine and all accessories are on.

4 START:
For starting the engine.

Starting the engine

STEP 1 Check that the parking brake is set.

STEP 2 Check that the selector lever is set in P.

If you need to restart the engine while the vehicle is moving, put the selector lever in N.

STEP 3 Sit in the driver's seat and firmly depress the brake pedal.

STEP 4 Turn the engine switch to START and start the engine.

Steering lock release

When starting the engine, the engine switch may seem stuck in the "LOCK" position. To free it, turn the key while turning the steering wheel slightly in either direction.

If the engine does not start

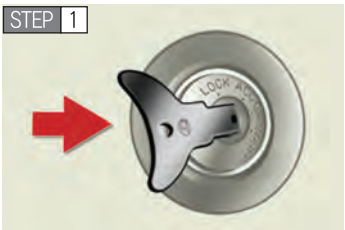
Check whether the other keys will start the engine.

If they work, your key may be broken. Have the key checked at your Lexus dealer.

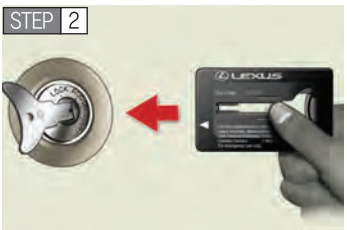
Leak detection pump

Approximately five hours after the engine is turned off, you may hear sound coming from underneath the trunk for several minutes. This is normal operation and does not indicate a malfunction.

Starting the engine using the flat key



Remove the flat key from its case. Insert the removed flat key into the engine switch.



Bring the key case close to the engine switch within 10 seconds as indicated by an arrow.

STEP 3 Put the key case away when the indicator light goes out. This means the engine immobilizer system has turned off.

STEP 4 Start the engine within 20 seconds after the indicator light goes off.

CAUTION

When starting the engine

Always start the engine while sitting in the driver's seat. Do not press the accelerator while starting the engine under any circumstances.

Doing so may cause an accident resulting in death or serious injury.

Caution when driving

Do not turn the engine switch to the LOCK position when driving. If, in an emergency, you must turn the engine off while the vehicle is moving, turn the key only to the ACC position.

NOTICE

To prevent battery discharge

Do not leave the key in the ACC or ON position if the engine is not running.

When starting the engine

- Do not crank for more than 30 seconds at a time. This may overheat the starter and wiring systems.
- Do not race a cold engine.
- If the engine becomes difficult to start or stalls frequently, have the engine checked immediately.

Automatic transmission

Select a shift position appropriate for the driving conditions.
The shift range position can be switched between “6” and “1” by moving the selector lever.

Shifting the transmission selector lever

➡ While the engine is running, the brake pedal must be depressed in order to move the selector lever from P.

Shift positions

Shift position		Function
P		Parking the vehicle and starting the engine (key removal position)
R		Reversing
N		Neutral
D		Normal driving*
S		“S” mode driving
	6	Economy driving
	5	Accelerating/passing at high speed driving
	4	Driving on hilly roads or hard towing
	3	Driving downhill when strong engine braking is necessary
	2	Driving downhill when stronger engine braking is necessary
	1	Driving downhill when maximum engine braking is necessary

* Always use the “D” position to improve fuel economy and quiet driving.

Selecting a driving mode

The ECT pattern can be selected to suit current driving and operating conditions.

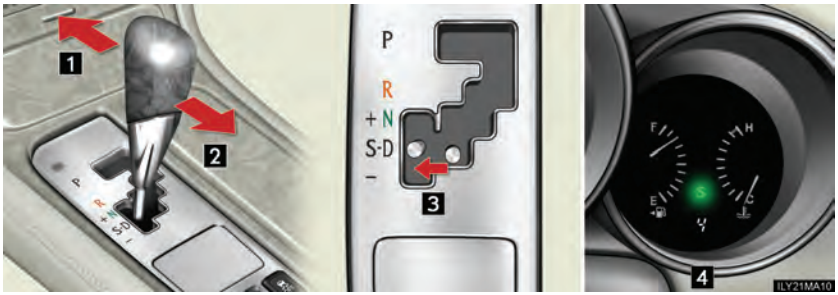
1 Power mode
For powerful acceleration and driving in mountainous regions.

2 Normal mode

3 Snow mode
For accelerating and driving on slippery road surfaces, such as on snow.

Press “SNOW” to return to normal mode.

Driving in “S” mode



Shift the selector lever to “S”.

1 Upshifting
2 Downshifting
3 “S” mode position
4 Shift range position indicator

Shift range when traveling in S mode

Shift ranges are changed automatically to suit the vehicle speed and conditions. (e.g. If “4” is selected, the shift range used is from “1” to “4”.)

Downshifting restrictions in “S” mode

The selector lever cannot be downshifted if the following speeds are exceeded. (A buzzer will sound twice in this situation.)

Downshifting	Maximum speed mph (km/h)
5→4	120 (194)
4→3	88 (142)
3→2	59 (95)
2→1	24 (38)

The maximum speeds can get lower when the engine is not warm such as in cold climates or before warm-up.

■ **Accelerating rapidly**

Fully depress the accelerator pedal. Engine speed will increase, and the vehicle will accelerate rapidly.

■ **When driving at a set speed using the cruise control system**

Engine braking will not operate when driving in "S" mode, even if the selector lever is downshifted to "5" or "4". (→P.131)

■ **SNOW mode automatic deactivation**

SNOW mode is automatically deactivated, if the key is turned to ACC or LOCK after driving in SNOW mode.

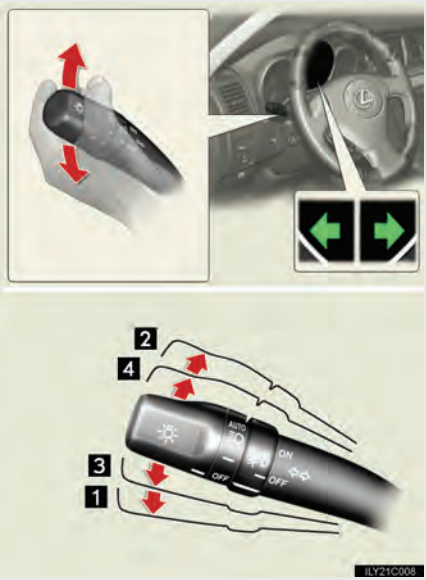
■ **If the transmission selector lever cannot be shifted from P**

→P.307

■ **If the shift range position indicator light does not come on when the "S" mode is engaged**

There may be a malfunction in the automatic transmission system.
Have the vehicle inspected by your Lexus dealer immediately.
(In this situation, the vehicle operates as if the selector lever is in D.)

Turn signal lever



1 Left turn

2 Right turn

3 Move and hold the lever part-way to signal a lane change

The left-hand signal will flash until you release the lever.

4 Move and hold the lever part-way to signal a lane change

The right-hand signal will flash until you release the lever.

Turn signal lever operating conditions

The engine switch must be turned to ON.

If the indicators flash faster than usual

Check that a light bulb in the front or rear turn signal lights has not burned out.

Parking brake

1 Sets the parking brake

Depress the brake pedal with the right foot and fully depress the parking brake pedal with the left foot.

2 Releases the parking brake

Pull the lever to release the parking brake.

NOTICE

■ **Before driving**

Fully release the parking brake.

Driving the vehicle with the parking brake set will lead to brake component overheating, which may affect braking performance and increase brake wear.

Horn

To sound the horn, press on or close to the mark.

Gauges and meters

When the key is turned to ON:

1 Tachometer

Displays the number of engine speed in revolutions per minute.

2 Speedometer

Displays the vehicle speed.

3 Engine coolant temperature gauge

Displays the engine coolant temperature.

4 Fuel gauge

Displays the quantity of fuel remaining in the tank.

5 Odometer

Displays the total distance the vehicle has been driven.

Trip meter A and trip meter B

Trip meters display the distance the vehicle has been driven since the meter was reset.

6 Odometer/trip meter button

Changes between odometer and trip meter displays.

7 Trip meter reset button

Resets the distance traveled to 0 mile (0 km).

Instrument panel light control

The brightness of the instrument panel lights can be adjusted by turning the instrument panel light control knob.

1 Darker

2 Brighter

When the headlight switch is turned to ON, the brightness will be reduced slightly unless the instrument panel light control knob is turned fully on.

NOTICE

■ To prevent damage to the engine and its components

- Do not let the indicator needle of the tachometer enter the red zone, which indicates the maximum range of engine revolutions.
- The engine may be overheating, if the temperature gauge is in the red zone (H). In this case, immediately stop the vehicle in a safe place. Check the engine after it has cooled completely. (→P.312)

Indicators and warning lights

The indicators and warning lights in the instrument cluster inform the driver of the operating state of the vehicle.

▶ Instrument cluster

▶ Passenger side of the instrument panel

Indicators

Informs the driver of the operating status of the vehicle's various systems.

Turn signal indicator (→P.114)

Headlight high beam indicator (→P.123)

Headlight indicator (U.S.A.) (→P.123)

Tail light indicator (Canada) (→P.123)

Front fog light indicator (→P.126)

Shift position indicator (→P.110)

*
AFS OFF indicator (→P.124)

Shift range position indicator (→P.110)

ECT SNOW indicator (→P.111)

ECT PWR indicator (→P.111)

Cruise control indicator (→P.131)

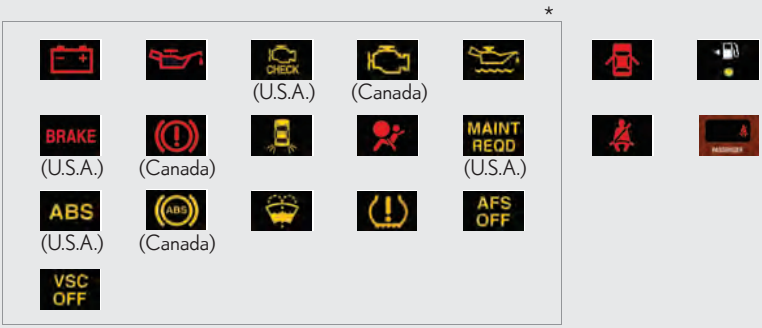
*
VSC OFF indicator (→P.135)

*
Slip indicator (→P.134)

*
Front passenger airbag on-off indicator (→P.77)

Warning lights

Warning lights inform the driver of a malfunction in the indicated vehicle's systems. (→P.284)



* These lights turn on when the engine switch is turned to ON to indicate that a system check is being performed. They will turn off after the engine is started, or after a few seconds.

There may be a malfunction in a system if a light does not come on, or if the lights does not turn off. Have the vehicle inspected by your Lexus dealer.

CAUTION

If a safety system warning light does not come on

Should a safety system light such as ABS and the SRS warning light not come on when you start the engine, this could mean that these systems are not available to help protect you in an accident, which could result in death or serious injury. Have the vehicle inspected by your Lexus dealer immediately if this occurs.

Trip information display

The following information is shown on the automatic air conditioning control panel.

Trip information

- Available driving distance ("Mi" or "km")
- Average fuel consumption ("MPG" or "L/100km")
- Average vehicle speed ("MPH" or "km/h")

Changing the displayed information

Each time you push the button, the displayed information is changed.

The displayed trip information values indicate the general driving condition and may not always reflect precise and actual conditions.

Recalculating the average fuel consumption or the average vehicle speed

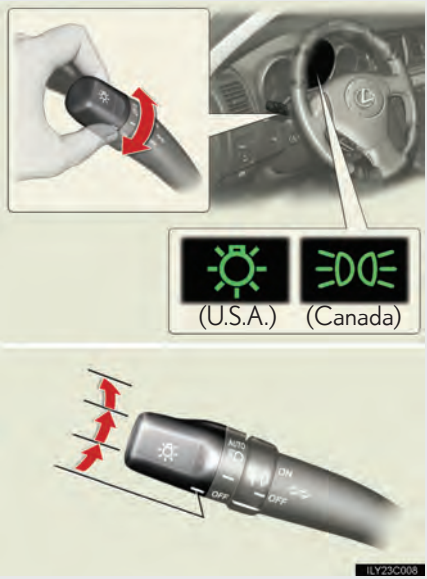
To begin recalculating, hold the "TRIP INFO" button for more than 1 second.

When the fuel gauge is close to "E"

If the available driving distance is selected, "LOW FUEL" is displayed.

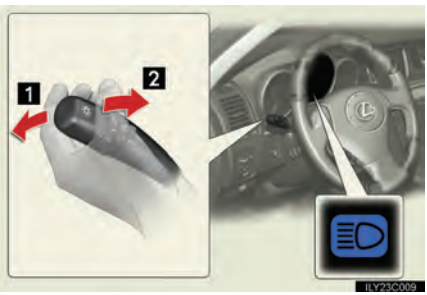
Headlight switch

The headlights can be operated manually or automatically.



—	The side marker, tail, parking, license plate and instrument panel lights turn on.
≣D	The headlights also turn on.
AUTO	The headlights and parking lights turn on and off automatically. (When the key is turned to ON.)

Turning on the high beams



1 With the headlights on, push the lever forward to turn on the high beams.

Pull the lever back to the center position to turn the high beams off.

2 Pull the lever toward you to turn on the high beams.

Release to turn them off. You can flash the high beams with the headlights on or off.

Daytime running light system

The headlights turn on automatically (at a reduced intensity) whenever the engine is started and the parking brake is released to make your vehicle more visible to other drivers. Daytime running lights are not designed for use at night.

Adaptive front lighting system (AFS)

To improve road illumination when turning, the right side headlight moves right on right turns, and the left side headlight moves left on left turns.

Adaptive front lighting system cancel switch

1 Inoperative

2 Operative

When the system is canceled, the "AFS OFF" indicator lights up in the instrument cluster.

Headlight control sensor

The sensor may not function properly if an object is placed on the sensor, or anything that blocks the sensor is affixed to the windshield.
Doing so interferes with the sensor detecting the level of ambient light and may cause the automatic headlight system malfunction.

Automatic light off system

The headlights and tail lights turn off 30 seconds after a door is opened or closed if the engine switch has been switched to ACC or turned OFF while the headlights are turned on. (The light turns off immediately if the LOCK button on the key is pressed after both side doors and the trunk are locked.)

To turn the headlights on again, turn the key to ON, or turn the light switch off once and then back to ≣D or ▬ position.

Automatic headlight leveling system

The level of the headlights is automatically adjusted according to the number of passengers and the loading condition of the vehicle, to ensure that the headlights do not interfere with other road users.

Customization that can be configured at Lexus dealer

Settings (e.g. light sensor sensitivity) can be changed. (Customizable features →P.355)

AFS operating conditions

The system starts to operate when the vehicle's speed increases above 6mph (10 km/h), and stops when the vehicle's speed drops to 6 mph (10 km/h) or below.

When the "AFS OFF" indicator light flashes

This indicates a system failure. Have your vehicle checked at your Lexus dealer.

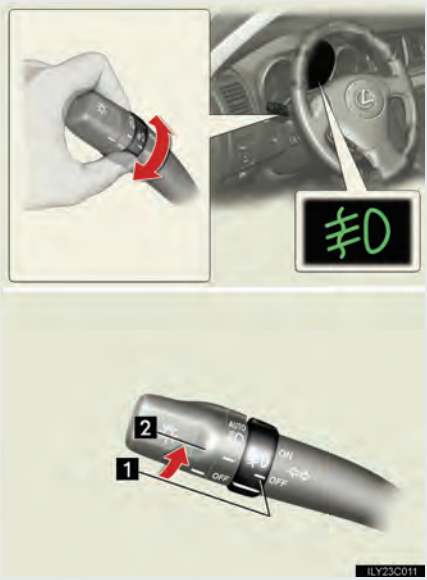
⚠ NOTICE

To prevent battery discharge

Do not leave the lights on longer than necessary when the engine is not running.

Fog light switch

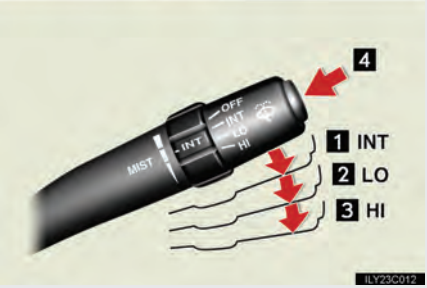
The fog lights improve visibility in difficult driving conditions, such as in rain or fog. They can be turned on only when the headlights are on low beam.



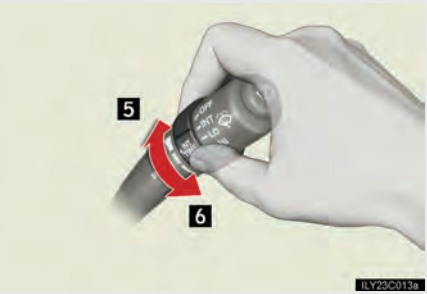
1 To turn the fog lights off

2 To turn the fog lights on

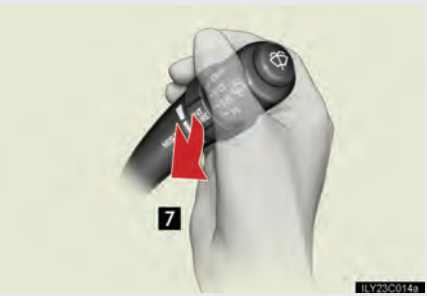
Windshield wipers and washer



1 Intermittent windshield wiper operation
2 Low-speed windshield wiper operation
3 High-speed windshield wiper operation
4 Washer fluid



5 Decrease the intermittent windshield wiper frequency
6 Increase the intermittent windshield wiper frequency



7 Mist operation

■ **Windshield wiper and washer operating conditions**

The key must be turned to ON.

■ **Intermittent operation features**

The time interval between sweeps decreases as vehicle speed increases. When vehicle speed exceeds 12 mph (20 km/h) with the interval adjusted in the lowest position, the time interval is set to the minimum 1.5 seconds.

If you stop the vehicle with the wiper switch in the "LO" position, the wipers automatically change to intermittent operation.* This will not happen if the interval adjuster is set to the lowest position.

*This feature can be deactivated. (→P.355)

■ **Windshield wiper features**

- When the washer button is pressed with the wipers OFF, the wipers will make 3 sweeps, then pause, then a final sweep to completely clear the windshield*. The length of the pause will depend on the vehicle speed. The last sweep will not happen if the vehicle is traveling above 106 mph (170km/h).

*The last single sweep can be deactivated. (→P.355)

- When the outside temperature is below 77 °F (25 °C), operating the windshield wipers will automatically turn on the rear window and outside rear view mirror defoggers.
- When the windshield washer button is pressed with the headlights on, the headlight cleaners automatically operate once.

■ **If no windshield washer fluid sprays**

Check that there is washer fluid in the windshield washer fluid reservoir, and that the washer nozzles are not blocked.

NOTICE

■ **If the washer switch is pressed and held continually**

Damage to the washer fluid pump may be caused, if the washer switch is pressed and held continually.

■ **When the windshield is dry**

Do not use the wipers, as they may damage the windshield.

Headlight cleaner switch

You can spray fluid on the headlights when they are on and the engine switch is in the "ON" position.

Press the switch to clean the headlights.

NOTICE

■ **When the washer fluid tank is empty**

Do not use this function when the washer fluid tank is empty.

This may cause the washer fluid pump to overheat.

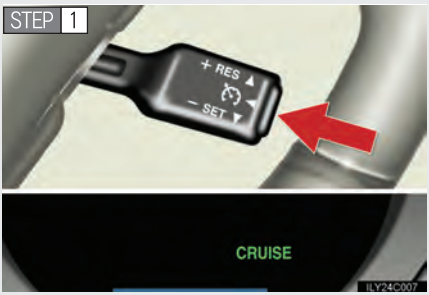
Cruise control

Use the cruise control to maintain a set speed without using the accelerator. You can still use the accelerator with the cruise control on.

1 Indicator

2 Cruise control switch

Set the vehicle speed

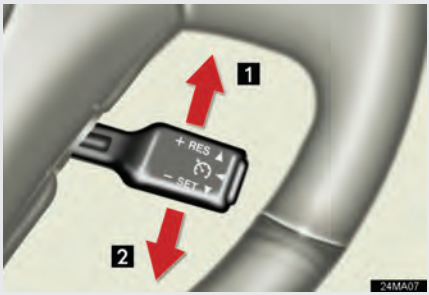


Turn the ON-OFF button on.

Push the button once more to deactivate cruise control.

Accelerate or decelerate to the desired speed and push the lever down to set.

Adjusting the speed setting



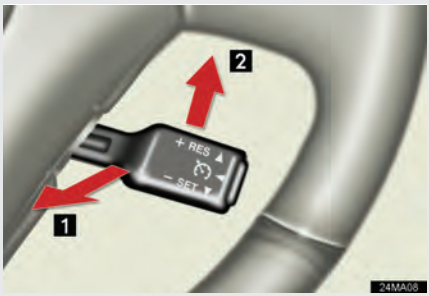
1 Increase speed

2 Decrease speed

Hold the lever until the desired speed setting is obtained.

Fine adjustment to the set speed (approximately 1.0 mph [1.6 km/h]) can be made by lightly pushing the lever up or down.

Canceling and resuming the preset speed



1 Cancel

Push the lever towards you to cancel cruise control, or depress the brake pedal.

2 Resume

To resume cruise control and return to the set speed, push the lever up. Cruise control will not resume if the vehicle speed drops below approximately 25 mph (40 km/h).*

* Resuming the preset speed is available if the vehicle speed is above approximately 25 mph (40 km/h).

■ **Cruise control can be set when**

- The shift lever is in D, or the 4, 5, or 6 range of S.
- Vehicle speed is above approximately 25 mph (40 km/h).

■ **Automatic cruise control cancellation**

Cruise control is automatically cancelled in any of the following situations:

- Actual vehicle speed is more than 10 mph (16 km/h) below the preset vehicle speed.
  At this time, the memorized set speed is not retained.
- Vehicle speed is less than approximately 25 mph (40 km/h).
- The slip indicator light blinks and a warning tone sounds (The VSC system is activated.)

■ **If the cruise control indicator light flashes**

Turn the ON-OFF switch off once, and then reactivate the system. There may be a malfunction in the cruise control system if the indicator light does not come on, flashes again or goes out after it comes on. Have the vehicle inspected by your Lexus dealer.

CAUTION

■ **To avoid inadvertent cruise control activation**

Keep the ON-OFF switch off when not in use.

■ **Locations unsuitable for cruise control**

Do not use cruise control in any of the following situations.

Doing so may result in control of the vehicle being lost and may cause an accident.

- In heavy traffic.
- On roads with sharp bends.
- On slippery roads, such as those covered with rain, ice or snow.
- On steep hills.
- On winding roads.

Driver assist systems

To help enhance vehicle safety, the following systems operate automatically in certain driving conditions.

ABS (Anti-lock Brake System)

Helps to prevent wheel lock when the brakes are applied suddenly, or if the brakes are applied while driving on a slippery road surface.

Brake Assist

Generates an increased level of braking force after the brake pedal is pushed, when the system detects a panic stop situation.

VSC (Vehicle Stability Control)

Helps the driver to control skidding when swerving suddenly or turning on slippery road surfaces.

TRAC (Traction Control)

Helps maintains drive power and prevents spinning the rear wheels when starting the vehicle or accelerating on slippery roads.

When VSC or TRAC is operating

If the vehicle is in danger of slipping or the rear wheels spin, the slip indicator light flashes to indicate that the systems have been engaged.

A buzzer (intermittent) sounds when VSC is operating.

To disable TRAC and/or VSC

If the vehicle gets stuck in fresh snow or mud, TRAC and VSC may reduce power from the engine to the wheels. You may need to turn the system off to enable you to rock the vehicle in order to free it.

Turning off TRAC only

Quickly push and release the button to turn off TRAC.

The slip indicator light should come on.

Push the button again to turn the system back on.

Turning off both TRAC and VSC

Push and hold the button for more than 3 seconds while the vehicle is stopped to turn off TRAC and VSC.

The slip and VSC OFF indicator light should come on.

Push the button again to turn the system back on.

Automatic reactivation of TRAC and VSC

Turning the engine switch OFF after turning off the TRAC and VSC systems will automatically re-enable them.

Automatic TRAC reactivation

If only the TRAC system is turned off, the TRAC system will turn on when the vehicle speed increases.

Automatic TRAC and VSC reactivation

If only the both TRAC and VSC systems are turned off, the systems will not turn on even when the vehicle speed increases.

Sounds and vibrations caused by the ABS, Brake Assist, VSC and TRAC systems

- A sound may be heard from the engine compartment when the engine is started or just after the vehicle begins to move. This sound does not indicate that a malfunction has occurred in any of these systems.
- Any of the following conditions may occur when the above systems are operating. None of these indicates that a malfunction has occurred.
  - Vibrations may be felt through the vehicle body and steering.
  - A motor sound may be heard after the vehicle comes to a stop.
  - The brake pedal may pulsate slightly after the ABS is activated.
  - The brake pedal may move down slightly after the ABS is activated.

CAUTION

■ **The ABS may not operate effectively when**

- The limits of tire gripping performance have been exceeded.
- The vehicle hydroplanes while driving at high speed on the wet or slick road.

■ **Stopping distance when the ABS is operating will exceed that of normal conditions**

The ABS is not designed to shorten the vehicle's stopping distance. Always maintain a sufficient distance from the vehicle in front of you in the following situations.

- When driving on dirt, gravel or snow-covered roads
- When driving with tire chains
- When driving over bumps in the road
- When driving over roads with potholes or uneven roads with uneven pavement

■ **TRAC may not operate effectively when**

Directional control and power may not be achievable while driving on slippery road surfaces, even if the TRAC is operating.

Do not drive the vehicle in conditions where stability and power may be lost.

■ **When the VSC is activated**

The slip indicator light flashes and a warning buzzer sounds. Always drive carefully. Reckless driving may cause an accident. Exercise particular care when an indicator light flashes and a buzzer sounds.

CAUTION

When TRAC and VSC are off

Be especially careful and drive at a speed appropriate to the road conditions. As these are systems to ensure vehicle stability and driving force, do not turn off TRAC and VSC unless necessary.

Replacing tires

Make sure that all tires are of the same size, brand, tread pattern and total load capacity. In addition, make sure that the tires are inflated to the recommended tire pressure level.

The ABS, TRAC and VSC systems may not operate normally, if different tires are installed to the vehicle.

Contact your Lexus dealer for further information when replacing tires or wheels.

Cargo & luggage

Take notice of the following information about stowage precautions, cargo capacity and load.

When stowing cargo and luggage in the vehicle, observe the following precautions:

- Put cargo and luggage in the trunk when at all possible. Be sure all items are secured in place.
- Be careful to keep the vehicle level. Placing the weight as far forward as possible helps maintain vehicle balance.
- For better fuel economy, do not carry unnecessary weight.

Capacity and distribution

Cargo capacity depends on the total weight of the occupants.

(Cargo capacity) = (Total load capacity) – (Total weight of occupants)

Steps for Determining Correct Load Limit—

(1) Locate the statement "The combined weight of occupants and cargo should never exceed XXX kg or XXX lbs." on your vehicle's placard.

(2) Determine the combined weight of the driver and passengers that will be riding in your vehicle.

(3) Subtract the combined weight of the driver and passengers from XXX kg or XXX lbs.

(4) The resulting figure equals the available amount of cargo and luggage load capacity.

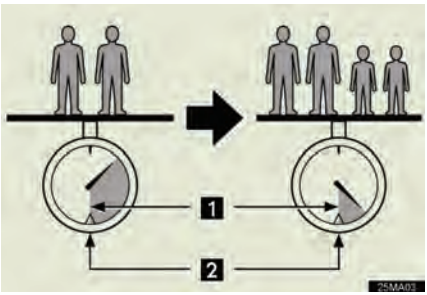
For example, if the "XXX" amount equals 1400lbs. and there will be five 150lb passengers in your vehicle, the amount of available cargo and luggage load capacity is 650 lbs. (1400 – 750 (5 × 150) = 650 lbs.)

(5) Determine the combined weight of luggage and cargo being loaded on the vehicle. That weight may not safely exceed the available cargo and luggage load capacity calculated in Step 4.

(6) If your vehicle will be towing a trailer, load from your trailer will be transferred to your vehicle. Consult this manual to determine how this reduces the available cargo and luggage load capacity of your vehicle.

Do not tow a trailer with this vehicle. It is not designed for trailer towing.

Example on your vehicle



1 Cargo capacity
2 Total load capacity

When 2 people with the combined weight of 366 lb. (166 kg) are riding in your vehicle, which has a total load capacity of 645 lb. (295 kg), the available amount of cargo and luggage load capacity will be as follows:

645 lb. – 366 lb. = 279 lb. (295 kg – 166 kg = 129 kg)

In this condition, if 2 more passengers with the combined weight of 258 lb. (117 kg) get on, the available cargo and luggage load will be reduced as follows:

279 lb. – 258 lb. = 21 lb. (129 kg – 117 kg = 12 kg)

As shown in the above example, if the number of occupants increases, the cargo and luggage load equaling the combined weight of the occupants who got on later, by an amount. In other words, if an increase in the number of occupants causes an excess of the total load capacity (combined weight of occupants plus cargo and luggage load), you must reduce the cargo and luggage on your vehicle. (→P.142)

CAUTION

Storage precautions

- Do not place anything on the package tray behind the rear seatback.
  Such items may be thrown about and possibly injure people in the vehicle during sudden braking or in an accident.
- Do not drive with objects on top of the instrument panel.
  They may interfere with the driver's field of view or move during sharp acceleration or turning, thus impairing the driver's control of the vehicle. In an accident they may injure the vehicle occupants.
- Secure all items in the occupant compartment, as they may shift and injure someone during an accident or sudden braking.

Weight of the load

- Improper loading may cause deterioration of steering or braking control which may cause death or serious injury.
- Do not exceed the maximum axle weight rating or the total vehicle weight rating.
- Even if the total load of occupant's weight and the cargo load is less than the total load capacity, do not apply the load unevenly.

Vehicle load limits

Vehicle load limits include total load capacity, seating capacity, towing capacity and cargo capacity.

Total load capacity: 645 lb. (295 kg)

Total load capacity means the combined weight of occupants, cargo and luggage.

Seating capacity: Total 4 (Front 2, Rear 2)

Seating capacity means the maximum number of occupants whose estimated average weight is 150 lb. (68 kg) per person.

Even if the number of occupants are within the seating capacity, do not exceed the total load capacity.

Towing capacity

Do not tow a trailer with this vehicle. It is not designed for a trailer towing.

Cargo capacity

Cargo capacity may increase or decrease depending on the weight and the number of occupants. (→P.139)

Total load capacity and seating capacity

These are also described on the tire and loading information label. (→P.245)

CAUTION

Overload

Do not apply excess load.

It may cause not only damage to the tires, but also deterioration of steering ability and braking ability, resulting in an accident.

Winter driving tips

Carry out the necessary preparations and inspections before driving the vehicle in winter. Always drive the vehicle in a manner appropriate for the prevailing weather and roadway conditions.

Pre-winter preparations

- Use fluids that are appropriate to the prevailing outside temperatures.
  - Engine oil
  - Engine coolant
  - Washer fluid
- Inspect the level and specific gravity of battery electrolyte.
- Have the vehicle fitted with four snow tires or purchase a set of tire chains for rear tires.

Ensure that all tires are the same size and brand, and that chains match the size of the tires.

Before driving the vehicle

Perform the following steps according to driving conditions.

- Do not forcibly try to open a window or move a wiper that has frozen. Pour some warm water over the frozen area to melt the ice. Wipe away the water immediately to prevent it from freezing.
- To ensure proper operation of the climate control system fan, remove any snow that has accumulated on the air inlet vents in front of the windshield.
- Remove any ice that has accumulated on the vehicle chassis.
- Periodically check for and remove any excess ice or snow that may accumulate in the wheel well or on the brakes.

When driving the vehicle

Accelerate the vehicle slowly and drive at a reduced speed suitable to road conditions.

When parking the vehicle

The parking brake may freeze up, preventing it from being released. Place the selector lever in P and park the vehicle without applying the parking brake.

Regulations on the use of snow chains

- Regulations regarding the use of tire chains vary according to location and type of road. Always check local regulations before installing chains.
- Use SAE Class “S” type radial tire chains, with the exception of radial cable chains or V-bar type chains.
  - Install the chains on the rear tires.
  - Refer to the explanation that comes with the tire chains for installation instructions.
- Retighten chains after driving 1/4 - 1/2 mile (0.5 - 1.0 km).

Tire chain installation

Observe the following installation, removal and care precautions.

- Install and remove tire chains in a safe location.
- Install tire chains on the rear tires only. Do not install tire chains on front tires.
- Install the tire chains on rear tires as tightly as possible. Retighten chains after driving 1/4 - 1/2 mile (0.5 - 1.0 km)
- Install tire chains following the instructions provided with the chains.

If the chains are installed

The tire pressure warning system may not operate properly.

CAUTION

Driving with snow tires

Observe the following precautions to reduce the risk of accidents.

Failing to do so may result in a loss of vehicle control and cause death or serious injury.

- Use tires of the specified size.
- Maintain the recommended level of air pressure.
- Do not drive in excess of 75 mph (120 km/h), regardless of the type of snow tires being used.
- Use snow tires on all, not just some wheels.

CAUTION

Driving with tire chains

Observe the following precautions to reduce the risk of accidents.

Failing to do so may result in the vehicle being unable to be driven safely and a possible accident which may cause death or serious injury.

- Do not drive in excess of the speed limit specified for the tire chains being used, or 30 mph (50 km/h), whichever is lower.
- Avoid driving on bumpy road surfaces or through potholes.
- Avoid sudden turns and braking, as use of chains may adversely affect vehicle handling.
- Slow down sufficiently before entering a curve to ensure that vehicle control is maintained.

Trailer towing

Do not tow a trailer with this vehicle.
Do not install a tow hitch or use a tow hitch carrier for a wheelchair, scooter, bicycle, etc. Your Lexus is not designed for trailer towing or for the use of tow hitch mounted carries.

Lexus warranties do not apply to damage or malfunction caused by towing a trailer or hitch mounted carries.

Dinghy towing

Your vehicle is not designed to be dinghy towed (with four wheels on the ground) behind a motor home.

Lexus warranties do not apply to damage caused by dinghy towing.

NOTICE

■ To avoid serious damage to your vehicle

Do not tow your vehicle with four wheels on the ground.

Interior features 3

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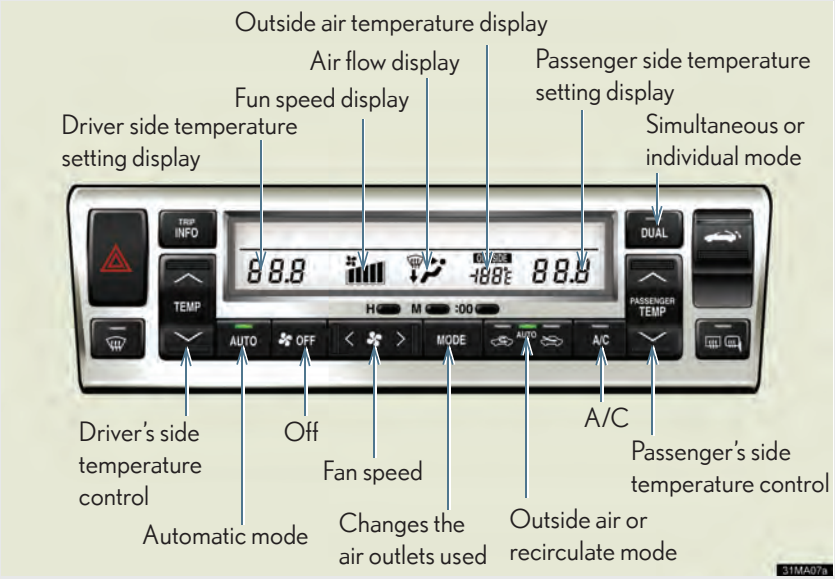
Automatic air conditioning control

Airflow and outlets automatically adjust according to the temperature setting.



Using the automatic mode

STEP 1 Push AUTO.

➡ The air conditioning system will begin to operate. Air outlets and fan speed are automatically adjusted according to the temperature setting.

STEP 2 Adjust the temperature setting using TEMP.

The temperature for the driver and passenger seats can be set separately. (→P.151)

Adjusting the settings

Adjusting the temperature setting

Press DUAL.

Use TEMP.

Press "^" to increase the temperature and "v" to decrease the temperature on the driver and passenger side controls.

Press DUAL once more to set the driver and passenger side temperatures to the same setting (Combined mode).

The air conditioning system switches between simultaneous and individual modes each time DUAL is pressed.

Adjusting the fan speed

Push < (decrease) or > (increase) on the button.

Fan speed can be set to one of five different speeds.
Push OFF to turn the air conditioning system off.

Defogging the front windshield

STEP 1 Push .

➡ The fan and automatic air conditioning control operate simultaneously.

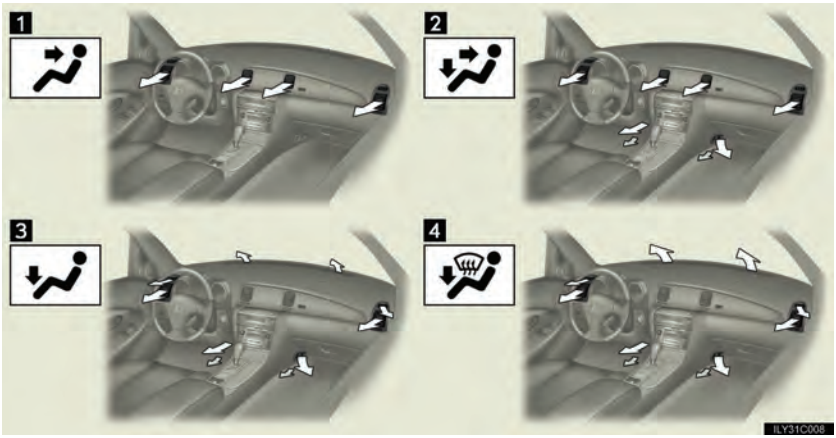
STEP 2 Adjust the air intake mode to (outside) air mode using AUTO.

The automatic air conditioning control switches to outside air mode when the outside temperature is low.

Changing the air flow

Push MODE.

The following modes are selected each time the button is pushed.



1 Air flows to the upper body.

2 Air flows to the upper body and feet.

3 Air flows to the feet.

4 Air flows to the feet and the windshield defogger operates.

⇨ Air flows from the lap-jet vents only when the retractable hardtop is opened.

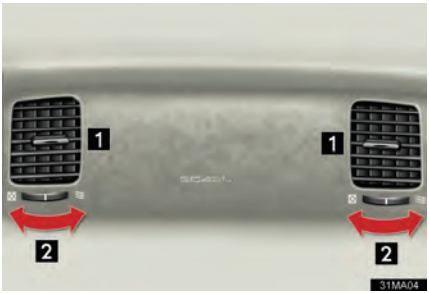
Switching between recirculated air and outside air modes

Push .

Pushing the button changes between recirculated (recycles air inside the vehicle), AUTO and outside air modes (introduces air from outside the vehicle).

Adjusting the position of and opening and closing the air outlets

▶ Center, and side air vents



1 Direct air flow to the left or right.

2 Turn knob right to open the vent and left to close the vent.

Operating the automatic air conditioning control in automatic mode

Fan speed is automatically adjusted according to the temperature setting and operating conditions. As a result, the following situations may occur.

- The system may switch to recirculated mode when the coolest temperature setting is selected.
- The fan may stop for a short period immediately after operation.

Using the system in recirculated mode

The windows will fog up more easily, if recirculated mode is used for an extended period.

■ **Outside air temperature approaches 32°F (0°C).**

The air conditioning system will not operate even if A/C button is pushed.

■ **Lap-jet vents**

Air flows only when the retractable hardtop is opened.

■ **When the indicator light on A/C switch flashes**

Press A/C and turn off the air conditioning control system before turning it on once more. There may be a problem in the air conditioning control system, if the indicator light continues to flash. Turn the air conditioning control system off and have it inspected by your Lexus dealer.

■ **Notes regarding outside temperature display**

In the following situations, the correct outside temperature may not be displayed, or the display may take longer than normal to change.

- When stopped, or driving at low speeds (less than 12 mph [20 km/h])
- When the outside temperature has changed suddenly (at the entrance/exit of a garage, tunnel, etc.)
- When it is extremely hot or cold outside the vehicle

⚠ CAUTION

■ **To prevent the windshield fogging up**

Do not use during cooled air 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, blocking your vision.

⚠ NOTICE

■ **To prevent battery discharge**

Do not leave the automatic climate control on longer than necessary when the engine is stopped.

Rear window defogger

Use the rear window defogger when the rear window becomes clouded with condensation.

1 ON/OFF

Push the button to turn the rear window defogger on. The defogger will automatically turn off after approximately 15 minutes or if you push the button again.

Outside rear view mirror heaters

Pressing the rear window defogger button also turns the mirror heaters on.

CAUTION

When the defogger is on

Do not touch the rear view mirror surfaces, as the surfaces can become very hot and burn you.

Audio system

Audio system with CD changer, cassette player, and AM/FM radio

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Operating the CD changer	P.166
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■ Using cellular phones

Interference may be heard through the audio system's speakers, if a cellular phone is being used inside or close to the vehicle while the audio system is operating.

CAUTION

For vehicles sold in the U.S.A. and Canada

- Part 15 of the FCC Rules

  FCC Warning:
  Any unauthorized changes or modifications to this equipment will void the user's authority to operate this device.

- Laser products

  - Do not take this unit apart or attempt to make any changes yourself.
    This is an intricate unit that uses a laser pickup to retrieve information from the surface of compact discs. The laser is carefully shielded so that its rays remain inside the cabinet. Therefore, never try to disassemble the player or alter any of its parts since you may be exposed to laser rays and dangerous voltages.
  - This product utilizes a laser.
    Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

NOTICE

To prevent battery discharge

Do not leave the audio system on longer than necessary with the engine off.

To avoid damaging the audio system

Be careful not to spill drinks or other fluids inside the vehicle.

Opening the audio door

1 Open/Close

CAUTION

■ **When opening or closing the audio door**

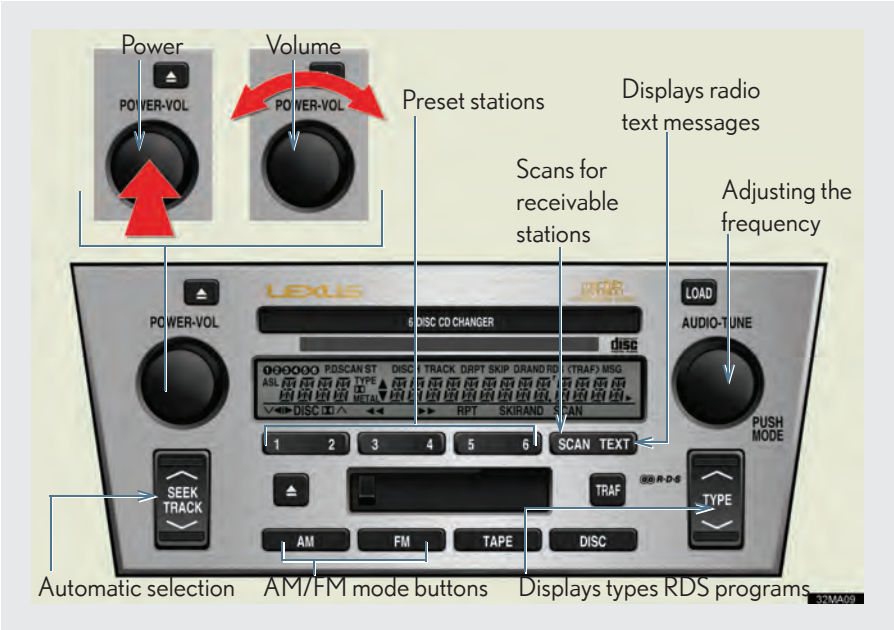
Do not jam your hands in the door.

NOTICE

■ **To avoid damaging the audio door or CD**

- Do not hold the door while it is opening or closing.
- Do not manually open or close the audio door.
- Do not close the audio door before removing an ejected CD.

Using the radio



Setting radio station memory presets

STEP 1 Select the station to store into memory.

STEP 2 Press and hold a button from 1 to 6 until a beep is heard to set the station to that button.

Receiving RDS (Radio Data System) broadcasts

This feature allows your radio to receive station identification information and program information (classical, jazz, etc.) from radio stations which broadcast this information.

Receiving RDS broadcasts

Push TYPE while receiving FM broadcasts.

Changing the type of program displayed

Push TYPE to display the type of programs.

The type of program changes each time the button is pushed.

- ROCK
- EASY LIS (Easy listening)
- CLS/JAZZ (Classical music and Jazz)
- R & B (Rhythm and Blues)
- INFORM (Information)
- RELIGION
- MISC
- ALERT (Emergency message)

Displays radio text messages

Push TEXT while receiving radio text messages to redisplay a message.

In case a message is more than a line, hold the TEXT. The rest of the message is displayed.

Scanning radio stations

Scanning the preset radio stations

STEP 1 Press and hold the SCAN until a beep is heard.

Preset stations will be played for a few seconds each.

STEP 2 Push SCAN once more to select the desired station.

Scanning all radio stations within range

STEP 1 Push SCAN.

Received stations will be played for a few seconds each.

STEP 2 Push SCAN once more to select the desired station.

When the battery is disconnected

Stations saved in the memory presets are deleted.

Reception sensitivity

- Maintaining perfect radio reception at all times is difficult due to the continually changing position of the antenna, differences in signal strength and surrounding objects, such as trains, transmitters, etc.
- The factory installed radio antenna is mounted inside the windshield. To maintain a high level of radio reception, do not attach metallic window tint or other metallic objects to the antenna wire mounted inside the windshield.

When the system can show the station name

RDS appears on the display. The indication changes each time you push the TEXT.

- Band
- Station name
- Radio text

TRAF (traffic) function

A station that regularly broadcasts traffic information is automatically located. Push TRAF to seek any traffic program station.

Power antenna

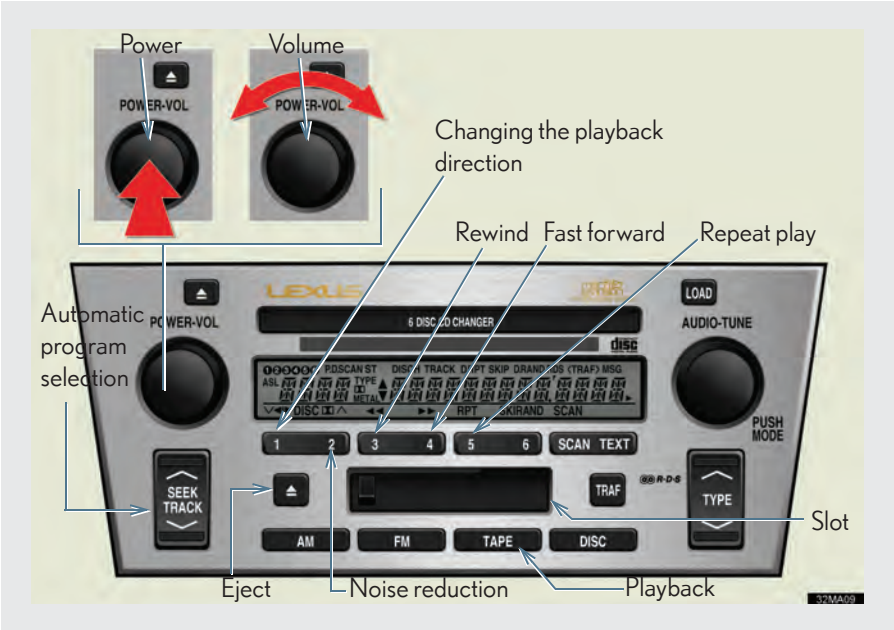
The power antenna automatically extends when the radio mode or RDS is on and retracts when it is off.

CAUTION

Before extending the antenna

Confirm that no one is close enough to get injured.

Using the cassette player



Finding the beginning of a track

Push the button to skip to the beginning of the next track, or return to the beginning of the track currently being played.

Nine tracks can be played back in this manner, including the track currently being listened to.

Using Dolby® noise reduction

Push the 2 (DD) button.

Reduces the level of noise for tapes recorded with Dolby NR only.

Dolby noise reduction is manufactured under license from Dolby Laboratories Licensing Corporation. “DOLBY” and the double-D symbol (DD) are registered trademarks of Dolby Laboratories.

Canceling

To cancel 2 (DD) and 5 (RPT): Push the same button.

To cancel 3 (◀◀) and 4 (▶▶): Push the same button or TAPE.

When the cassette player does not operate correctly due to the recording conditions

Forwarding to the beginning of a track, repeat, blank tape skip and fast-forward may not be possible in the following situations:

- The interval between tracks is less than three seconds (beginning of track and repeat playback) or less than fifteen seconds (blank tape skip).
- When there is noise between two tracks.
- The beginning and end of subsequent tracks is not clearly defined.

Cleaning the cassette player

Cassette player components (heads, capstan, pinch rollers) should be cleaned at least once a month using a cleaning tape to remove dirt and dust that can easily build up.

Using long playing cassette tapes

Avoid using tapes with a length of more than 90 minutes, as the tape used is very thin and may become tangled in the cassette player.

NOTICE

■ **Cassette tapes that cannot be used**

Do not use a cassette tape, if it has been damaged or tangled or if its label is peeling off.

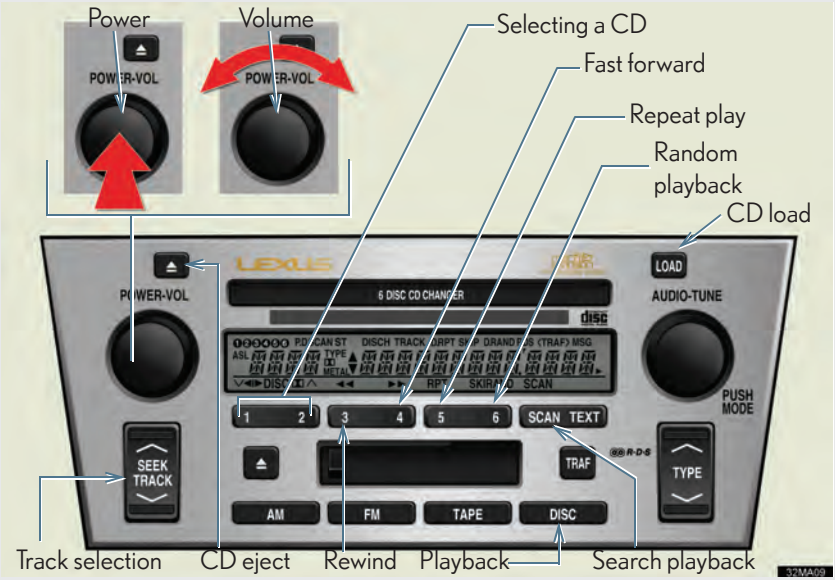
Such tapes may affect playing speed and may also get stuck in the player.

■ **Cassette player precautions**

- Store cassette tapes away from direct sunlight.
- Do not insert anything other than cassette tapes into the cassette player.
- Do not apply oil to the cassette player.

Using the CD changer

Operable and display parts



Loading a CD

Inserting a single CD

STEP 1 Push the LOAD button briefly.

STEP 2 Insert a CD after the CD door opens.

Loading multiple CDs

STEP 1 Push the LOAD button until you hear a beep.

STEP 2 Insert a CD after the CD door opens.

STEP 3 Wait until the CD door opens again before inserting the next CD.

STEP 4 Repeat step 2 and 3 until you insert all the CDs.

To cancel the operation, push the LOAD or DISC button. If you do not insert a CD within 15 seconds after “LOAD” is displayed, loading will be cancelled.

Ejecting a CD

STEP 1 Select a CD you want to eject. (→P.167)

STEP 2 Push the button for the CD briefly.

If you want to eject all the CDs, push and hold button for the CD until you hear a beep.

Selecting, fast forwarding, and scanning tracks

Selecting a track

Press "^" to move up and "v" to move down through the tracks until the track number you want is displayed.

If ∧ or ∨ are pushed and held until a beep is heard, the track will be fast forwarded. Release the button at the desired track position to resume playback.

Scanning a CD

STEP 1 Push SCAN.

The first ten seconds of each track will be played.

STEP 2 Push SCAN once more to select the desired track.

Selecting a CD

To select a CD to play

Push 1 (∨) or 2 (∧) until the desired CD is selected.

To scan loaded CDs

STEP 1 Press and hold the SCAN button until a beep is heard.

The first ten seconds of each CD will be played.

STEP 2 Push SCAN once more to select the desired CD.

Playing tracks in random order

From the CD being played

Push 6 (RAND).

Tracks are played in random order until the button is pushed once more.

From all CDs

Press and hold the 6 (RAND) button until you hear a beep.

Tracks on all loaded CDs are played in random order until the button is pushed once more.

About your changer

Your automatic changer can store up to 6 CDs.

If you don't insert the CDs within 15 seconds after pushing the LOAD button

The operation will be canceled automatically.

If you accidentally push the ⏏ for the CD button

Push the LOAD button to insert again. Do not push in the CD which is being ejected forcibly.

Canceling the RPT and RAND modes

To cancel operation of the 5 (RPT) and 6 (RAND) modes, push the relevant button once more.

When LOAD, ERROR or WAIT are shown on the display.

LOAD : The CD changer is preparing to playback a CD. Wait for a short while.

ERROR1: Make sure the label of the displayed disc is facing up and reinsert it into the changer.

ERROR 3 or 4 : There is a problem with the changer.

WAIT : Operation is stopped due to a high temperature inside the changer. Remove the CD from the player and allow the player to cool down.

If the malfunction persists, take your vehicle to your Lexus dealer.

CD auto changer

The mark shown to the left indicates that only audible CDs can be used. CD-Rs, CD-ROMs and CDs with copy-protect features cannot be used.

CD player protection feature

To protect the internal components, playback is automatically stopped when an a problem is detected while the CD player is being used.

Leaving CDs in the player for an extended period

Do not leave CDs in the CD player for an extended period of time or the CDs may become damaged.

Lens cleaners

Do not use lens cleaners. Doing so may damage the CD player.

NOTICE

■ **To prevent CDs getting stuck in the player**

- Insert CDs one at time.
- Do not feed CDs in continuously.

■ **CDs that cannot be used**

Do not use the following types of CD.

Doing so may damage the CD player and affect the CD insert/eject function.

- CDs that have a diameter that is not 4.7 in. (12 cm). (Playback not possible.)

- Low-quality and deformed CDs.

- CDs with a transparent or translucent recording area.

NOTICE

- CDs that have had tape, seals or labels attached to them, or that have had the label peeled off.

- This system is not designed for use of Dual Disc. Do not use Dual Disc because it may cause damage to the player or changer.

CD player precautions

Failing observe the following precautions may result in CDs being unplayable or cause the player to function abnormally.

- Do not insert anything other than CDs into the CD player.
- Do not apply oil to the CD player.
- Store CDs away from direct sunlight.

Optimal use of the audio system

Adjusting sound quality, volume, balance and sound level

Changing sound quality modes

Push . Pushing the button changes the sound mode in the following order.

BAS → MID → TRE → FAD → BAL → ASL

Adjusting sound quality

Turn the dial to the left or right.

Sound quality mode	Mode displayed	Level	Turn to the left	Turn to the right
Bass	BAS	-5 to 5	Low	High
Midrange	MID	-5 to 5		
Treble	TRE	-5 to 5		
Forward-rear balance	FAD	F7 to R7	Shifts to front	Shifts to rear
Left-right balance	BAL	L7 to R7	Shifts to left	Shifts to right

Adjusting the Automatic Sound Levelizer (ASL)

ASL automatically adjusts the volume and tone quality according to the noise level as you drive your vehicle.

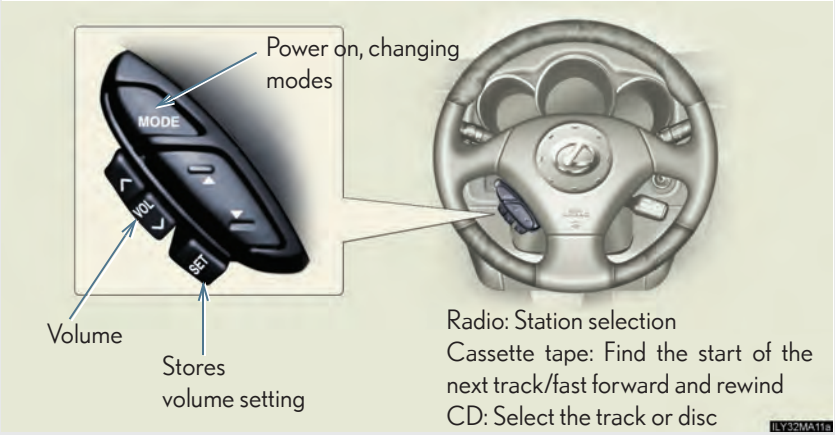
Turn the while the ASL mode is displayed to turn on or off the automatic sound levelizer.

Audio sound adjustment

Your audio system adjusts to the optimum volume and tone quality automatically when you are opening or closing the retractable hardtop. While the system is adjusting the audio sound, the audio sound fades out and then fades in.

Using the steering switches

Some audio features can be controlled using the switches on the steering wheel.



Turning on the power and selecting audio modes

Power

Push when the audio system is turned OFF.

Changing modes

Push when the audio system is turned ON. Pushing the button changes the audio mode in the following order: AM, FM, cassette deck, CD changer.

Adjusting the volume

Push VOL increases or decreases the volume.

Hold down the button to continue increasing or decreasing the volume.

Storing the desired volume level

Adjust the volume to the desired level and push SET until you hear a beep.

Push SET to restore the volume to the desired level if it has been adjusted.

Selecting a radio station

STEP 1 Push MODE to select the radio mode.

STEP 2 Push to select the preferred radio station.

If is pushed and held until you hear a beep, the audio system automatically searches for a receivable frequency.

Finding the start of the next track/fast forward and rewind

STEP 1 Push MODE to select the cassette mode.

STEP 2 Push to skip to the beginning of the next track, including the track currently being played.

If is pushed and held until you hear a beep, the tape fast forwards or rewinds.

Selecting a CD track or CD

Selecting a track.

STEP 1 Push to select the CD mode.

STEP 2 Push to select the desired track.

Selecting a CD.

STEP 1 Push to select the CD mode.

STEP 2 Press and hold until you hear a beep.

STEP 3 Push to select the desired CD.

Canceling operation of the steering switches.

Press and hold until you hear a beep.

Canceling

To cancel automatic selection of a radio station, push the same button.

CAUTION

To reduce the risk of an accident

Exercise care when operating the audio switches on the steering wheel.

Interior lights list

1 Interior light and front personal lights (→P.178, P.179)
2 Door courtesy lights
3 Engine switch light
4 Foot lights
5 Scuff plate lights

■ **Illuminated entry system**

The following lights turn on when the vehicle is unlocked using a key or wireless remote control, or when a door is opened.

- Engine switch light
- Foot lights
- Interior light (when the switch is in the DOOR position)
- Door courtesy lights
- Scuff plate lights

After both side doors have been unlocked or opened, the lights remain on for approximately fifteen seconds and then go out.

(The lights turn off immediately if the vehicle is locked, or the key is turned to ACC or ON.)

Interior lights

1 Off

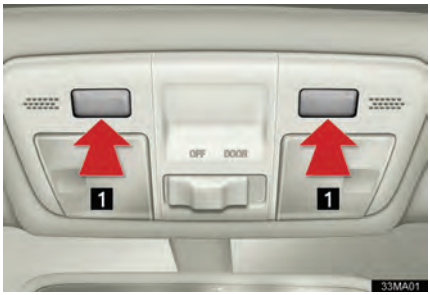
2 The light comes on if a door is opened.

After both side doors have been closed, the light remains on for approximately fifteen seconds and then goes out.

■ **Illuminated entry system**

The interior light turns on and off in conjunction with operation of the door locks. (→P.178)

Personal lights

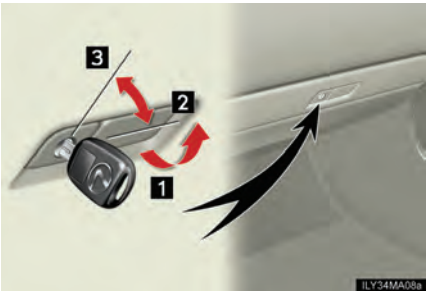


1 On/Off

Storage features

1 Glove box
2 Console box
3 Coin box
4 Cup holder
5 Auxiliary box

Glove box



1 Opening (pull lever)
2 Lock with the master key
3 Unlock with the master key

The glove box can be operated with the master key.

Glove box light

The glove box light turns on when the headlight switch is turned ON.

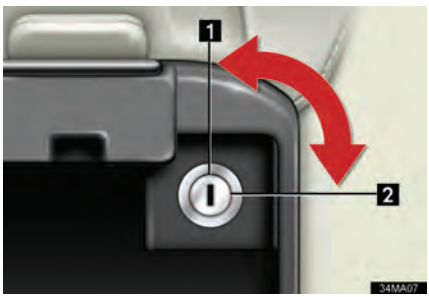
Console box

1 Press the button to release the lock

2 Lift armrest to open

1 Pull up on lower tab

2 Lift to open



1 Unlock the lower box

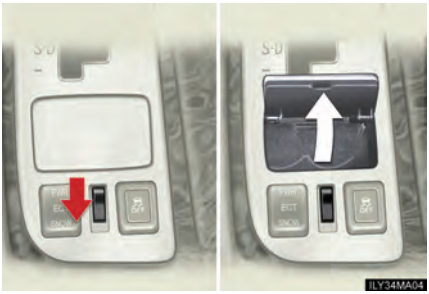
2 Lock the lower box

The lower box can be operated with the master key.

Loop of wire to unlock the trunk lid

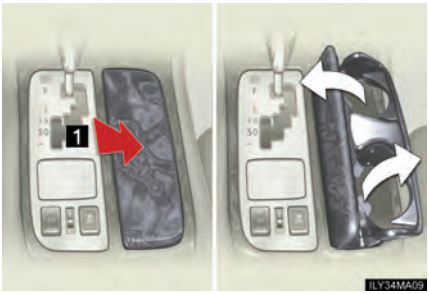
The loop of wire to unlock the trunk lid is in the console box. (→P.315)

Coin box



1 Open

Cup holder



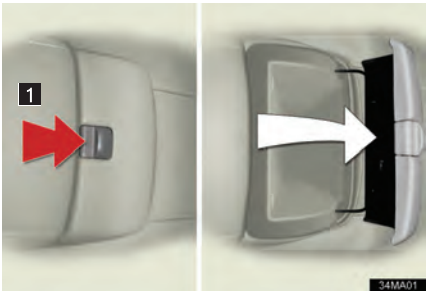
1 Open

Press down and release the right side of the cup holder lid to open.

1 Push in the cup holder

2 Close the lid

Auxiliary box



1 Push the tab to open

CAUTION

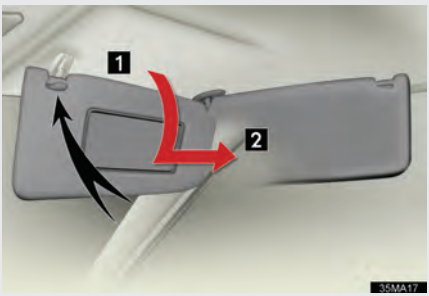
Caution while driving

Always keep the glove box, console box, coin box, cup holder and auxiliary box closed to reduce the chance of injury in case of an accident or sudden stop.

Items unsuitable for the cup holder

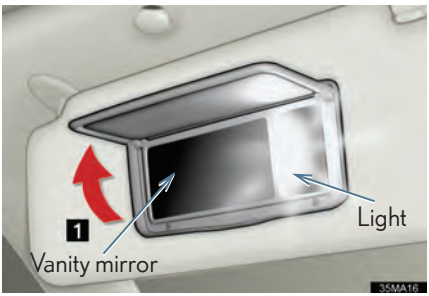
Do not place anything other than cups or drink cans in the cup holder, as they may be thrown loose and possibly injure people during sudden braking or in an accident If possible, cover hot drinks to prevent burns.

Sun visors



1 Forward position: Flip down
2 Side position: Flip down, unhook, and swing to the side

Vanity mirror and light



1 The vanity light turns on.

NOTICE

To prevent battery from being discharged

Do not leave the vanity light on for extended periods while the engine is stopped.

Clock

1 H button : Adjusts the hour.

2 M button : Adjusts the minutes.

3 :00 button : Resets the minutes to zero.*

* For example:
9:30 to 9:59 displayed → 10:00
10:01 to 10:29 displayed → 10:00

Ashtray

Press the lid to open.

Removing the ashtray

Pull the ashtray up to remove it.

CAUTION

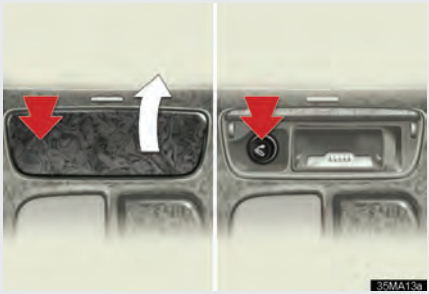
After use

Always close the ashtray to reduce the chance of injury in case of an accident or sudden stop while driving.

To prevent causing a fire

- Fully extinguish matches and cigarettes before putting them in the ashtray, then make sure it is fully closed.
- Do not place paper or any other type of flammable object in the ashtray.

Cigarette lighter



STEP 1 Open the ashtray lid.

STEP 2 Push the cigarette lighter down.

The cigarette lighter will pop up when it is ready for use.

Cigarette lighter operating conditions

The engine switch must be turned to ACC or ON position for the cigarette lighter to operate.

CAUTION

To avoid burns and fires

- Do not touch the metal portions of the cigarette lighter.
- Do not hold the cigarette lighter down. It could overheat and cause a fire.
- Do not insert anything other than the cigarette lighter provided into the outlet.

Power outlet

The power outlet can be used for 12 V accessories that run on less than 10 A.

1 Open

Power outlet operating conditions

The engine switch must be turned to ACC or ON.

NOTICE

To avoid damaging the power outlet

Close the power outlet lid when the power outlet is not in use.

Foreign objects or liquids that enter the power outlet may case a short circuit.

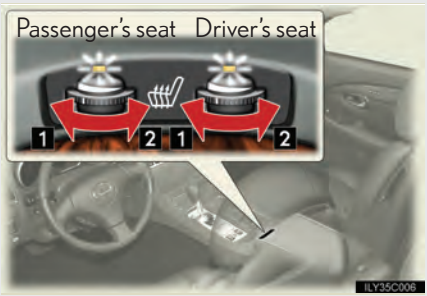
To prevent the fuse from being blown

Do not use the an accessory that uses more than 12 V 10 A.

To prevent the battery from being discharged

Do not use the power outlet longer than necessary when the engine is not running.

Seat heaters



1 Turn the dials to the left to turn the respective seat heaters on.

2 To turn off, turn the dials to the right until they stop.

Operating conditions

The engine switch must be in the ON position.

CAUTION

Burns

- Use caution when seating the following persons in a heated seat to avoid the possibility of burns:
  - Babies, small children, elderly persons, sick persons or handicapped persons
  - Persons who have delicate skin
  - Persons who are exhausted
  - Persons who have taken alcohol or drugs that induce sleep (sleeping drug, cold remedy, etc.)
- Do not cover the seat with anything when using the seat heater.
  The seat heaters may overheat if the seat is covered.

NOTICE

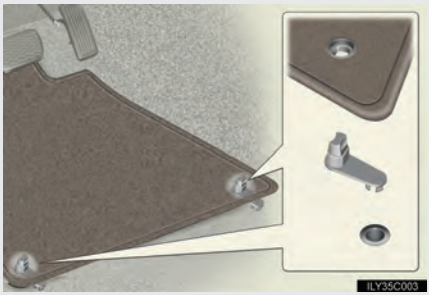
■ **To prevent seat heater damage**

Do not put unevenly weighted objects on the seat and do not stick sharp objects (needles, nails, etc.) into the seat.

■ **To prevent battery discharged**

Turn the switches off when the engine is not running.

Use only genuine Lexus floor mats properly secured to the vehicle carpet.



Secure the mat with the lock clips.

CAUTION

■ When inserting the floor mat

Observe the following precautions. Failure to do so may result in the floor mat slipping and interfering with the movement of the pedals during driving, resulting in an accident.

- Make sure the floor mat is properly placed on the vehicle carpet and the correct side faces upward.
- Do not place floor mats on top of existing mats.

Cargo hooks

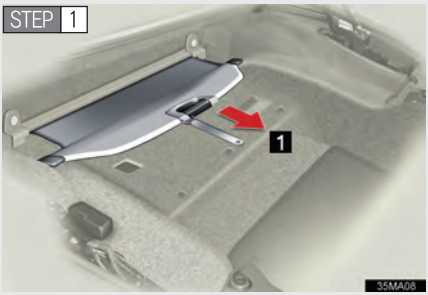
Cargo hooks are provided for securing loose items.

First-aid kit space

This space is provided to accommodate the first-aid kit.

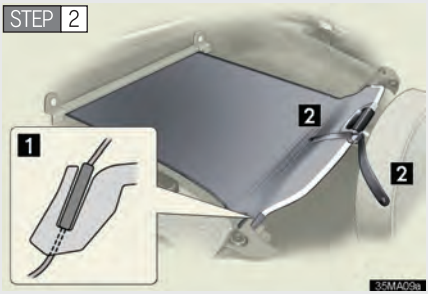
Luggage cover

STEP 1



1 Pull it out

STEP 2



1 Hook it on the anchors

2 Secure the strap on the tire or luggage cover

CAUTION

When not in use

To avoid injury, always return the cargo hooks to their positions under the carpet when they are not being used.

Garage door opener

The garage door opener can be programmed to operate garage doors, gates, entry doors, door locks, home lighting systems, and security systems, and other devices.

The garage door opener (**HomeLink**® Universal Transceiver) is manufactured under license from HomeLink®.

Programming the HomeLink® (for U.S.A. owners)

The HomeLink® compatible transceiver in your vehicle has 3 buttons which can be programmed to operate 3 different devices. Refer to the programming method below appropriate for the device.

1 Indicator light
2 Buttons

Programming the HomeLink®

STEP 1 Point the remote control for the device 1 to 3 in. (25 to 75 mm) from the HomeLink® control buttons.
Keep the indicator light on the HomeLink® in view while programming.

STEP 2

Simultaneously press and hold the transmitter button along with one of the HomeLink® buttons.

STEP 3

When the indicator light on the HomeLink® changes from a slow to a rapid flash after 20 seconds, you can release both buttons.

STEP 4 Test the operation of the HomeLink® by pressing the newly programmed button.

If programming a garage door opener, check to see if the garage door opens and closes. If the garage door does not operate, see if your garage transmitter is of the "Rolling Code" type. Press and hold the programmed HomeLink® button. The garage door has the rolling code feature if the indicator light (on the HomeLink®) flashes rapidly and then remains lit after 2 seconds. If your transmitter is the "Rolling Code" type, proceed to the heading "Programming a rolling code system".

STEP 5 Repeat the steps for each remaining HomeLink® button to program another device.

Programming a Rolling Code system (for U.S.A. owners)

If your device is “Rolling Code” equipped, follow the steps under the heading “Programming the HomeLink®” before proceeding with the steps listed below.

STEP 1 Locate the “training” button on the ceiling mounted garage door opener motor. The exact location and color of the button may vary by brand of garage door opener.

Refer to the owner’s guide supplied by the garage door opener manufacturer for the location of this “training” button.

STEP 2 Press the “training” button on the ceiling mounted garage door opener motor.

STEP 3 Press and release the vehicle’s programmed HomeLink® button twice. The garage door may open.

If the garage door does open, the programming process is complete. If the door does not open, press and release the button a third time. This third press and release will complete the programming process by opening the garage door.

The ceiling mounted garage door opener motor should now recognize the HomeLink® transceiver and operate the garage door.

STEP 4 Repeat the steps for each remaining HomeLink® button to program another rolling code system.

Programming an entrance gate (for U.S.A. owners)/Programming all devices in the Canadian market

STEP 1 Place the remote control for the device 1 to 3 in. (25 to 75 mm) away from the HomeLink® control buttons.
Keep the indicator light on the HomeLink® in view while programming.

STEP 2 Press and hold the selected HomeLink® button.

STEP 3 Repeatedly press and release (cycle) the device remote control button every two seconds until step 4 is completed.

STEP 4 When the indicator light on the HomeLink® compatible transceiver start to flash rapidly, release the buttons.

STEP 5 Press the newly programmed HomeLink® button to see if it operates the device.

STEP 6 Repeat the steps for each remaining HomeLink® button to program another device.

Programming other devices

To program other devices such as home security systems, home door locks or lighting, contact your authorized Lexus dealer for assistance.

Reprogramming a button

The individual HomeLink® buttons cannot be erased but can be reprogrammed. To reprogram a button, follow the “Basic programming” instructions.

Operating the HomeLink®

Press the appropriate HomeLink® button. The HomeLink® indicator light on the HomeLink® transceiver should turn on.

The HomeLink® continues to send the signal for up to 20 seconds as long as the button is pressed.

Erasing the entire HomeLink® memory (all three programs)

Press and hold down the 2 outside buttons for 20 seconds until the indicator light flashes.

If you sell your vehicle, be sure to erase the programs stored in the HomeLink® memory.

Before programming

- Install a new battery in the transmitter.
- The battery side of the transmitter must be pointed away from the HomeLink®.

Certification for the garage door opener

This device complies with Part 15 of FCC Rules and with RSS-210 of the IC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

WARNING: This transmitter has been tested and complies with FCC and IC rules. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the device.

CAUTION

■ **When programming a garage door or other remote control device**

The garage door may operate, so ensure people and objects are out of danger to prevent potential harm.

■ **Conforming to federal safety standards**

Do not use the HomeLink® compatible transceiver with any garage door opener or device that lacks the safety stop and reverse features as required by federal safety standards.

This includes any garage door that cannot detect an obstructing object. A door or device without these features increases the risk of injury or death.

Maintenance and care

4

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Cleaning and protecting the vehicle exterior

Follow these guidelines when washing and waxing your Lexus.

- Working from top to bottom, liberally apply water to the vehicle body, wheel wells and underside of the vehicle to remove any built up dirt and dust.
  Wash the vehicle body using a sponge or soft cloth, such as a chamois.
- For hard-to-remove dirt, use car wash soap and rinse thoroughly with water.
- Thoroughly dry your vehicle.
- Apply polish or wax only when the vehicle body is cool.
  Wax or polish your vehicle when the existing coating of wax or polish begin to deteriorate. A good way to determine this, is by checking to see if water beads on the painted surface of your vehicle. If it does not bead, that means the wax or polish is no longer protecting the finish, and therefore should be reapplied.

■ Automatic car washes

- Fold the mirrors back and retract the antenna before washing the vehicle.
- Brushes used in automatic car washes may scratch the vehicle surface, which can harm your vehicle's paint.
- Vehicles equipped with a rear spoiler may not be washable in some automatic car washes. There may also be an increased risk of damage to vehicle.
- Do not use automatic car washes with the compact spare tire installed, as the vehicle may get caught.

■ High pressure automatic car washes

Do not allow the nozzles of the car wash to come within close proximity of the windows or door weather seals of your vehicle.

Before entering the automatic car wash, check that the fuel filler door on your vehicle is closed properly.

To prevent paint deterioration and corrosion on the body

- Wash the car immediately in the following cases:
  - After driving near the sea coast
  - After driving on salted roads
  - If you see coal tar or tree sap on the paint surface
  - If you see dead insects or insect droppings on the paint
  - After driving in an area contaminated with soot, oily smoke, mine dust, iron powder or chemical substances
  - If the vehicle becomes heavily soiled in dust or mud
  - If liquids such as benzene and gasoline are spilled on the paint surface
- If the paint is chipped or scratched, have it repaired immediately.

Wheels

Remove any dirt immediately by using a neutral detergent. Do not use hard brushes or abrasive cleaners. Do not use strong or harsh chemical cleaners. Use the same mild detergent and wax as used on the paint.

Plastic bumpers and side moldings

Do not scrub with abrasive cleaners.

Side windows water-repellent coating

The following precautions can extend the effectiveness of the water-repellent coating.

- Remove any dirt, etc. from the side windows regularly.
- Do not allow dirt and dust to accumulate on the windows for a long period. Clean the windows with a soft, damp cloth as soon as possible.
- Do not use wax or glass cleaners that contain abrasives when cleaning the windows.
- Do not use any metallic objects to remove condensation build up.

CAUTION

Caution about the exhaust pipe

Exhaust gasses cause the exhaust pipe to become quite hot.

When washing the vehicle, be careful not to touch the pipe until it has cooled sufficiently, as touching a hot exhaust pipe can cause burns.

NOTICE

To protect vehicle's painted surfaces

Do not use organic cleaners such as benzene or gasoline.

Cleaning the exterior lights

- Wash carefully. Do not use organic substances or scrub the exterior light a hard brush. This may damage the surfaces of the lights.
- Do not apply wax on the surfaces of the lights.
  Wax may cause damage to the lenses.

If the windshield washer nozzle become blocked

Contact your Lexus dealer. Do not try to clear it with a pin or other object.
This may damage the nozzle.

To prevent damage to the windshield wiper arms

When lifting the wiper arms away from the windshield, pull the driver side wiper arm upward first, and repeat for the passenger side. When returning the wipers to their original position, do so from the passenger side first.

Cleaning and protecting the vehicle interior

The following procedures will help protect your vehicle's interior and keep it in top condition:

Protecting the vehicle interior

Remove dirt and dust using a vacuum cleaner and wipe dirty surface with a cloth dampened with lukewarm water.

Cleaning the leather seats

- Remove dirt and dust by using a vacuum cleaner.
- Wipe any excess dirt and dust with a soft cloth dampened with diluted detergent.
  Use a diluted water solution of approximately 5% neutral detergent for wool.
- Wring out any excess water from the cloth and thoroughly wipe off all remaining traces of detergent.
- Wipe the surface with a dry, soft cloth to remove any remaining moisture. Allow the leather to dry in a ventilated and shaded area.

Synthetic leather areas

First vacuum over the upholstery to remove loose dirt. Then, using a sponge or soft cloth, apply a mild soap solution to the synthetic leather. After allowing it to soak in for a few minutes to loosen the dirt, remove the dirt and wipe off the soap with a clean damp cloth.

Cleaning the inside of the rear window

Do not use glass cleaner to clean the rear window, as this may cause damage to the rear window defogger heater wires. Use a cloth dampened with lukewarm water to gently wipe the window clean. Wipe the window in strokes running parallel to the heater wires.

Caring for leather seats

Lexus recommends regularly cleaning the interior of the vehicle at least twice a year to maintain the quality of the vehicle's interior.

Shampooing the carpets

There are several commercial foaming-type cleaners available.
Use a sponge or brush to apply the foam. Rub in overlapping circles. Do not apply water. The best results are obtained by keeping the carpet as dry as possible.

Seat belts

Clean with mild soap and lukewarm water using a cloth or sponge. Also check the belts for excessive wear, fraying or cuts.

CAUTION

Water in the vehicle

- Do not splash or spill liquid in the vehicle. Doing so may cause electrical components etc. to malfunction or catch fire.
- Do not get any safety system and control units such as SRS airbags, in the vehicle interior wet.

  Electrical malfunction may cause the airbags to deploy or not function properly, resulting in death or serious injury.

NOTICE

■ **Cleaning detergents**

Do not use organic substances such as benzene, alcohol, gasoline, or alkaline or acid solutions, as they may discolor the vehicle interior or cause streaks or damage to painted surfaces.

■ **Preventing damage to leather surfaces**

Observe the following precautions to avoid damage to and deterioration of leather surfaces.

- Remove any dust or dirt on leather surfaces immediately.
- Do not expose the vehicle to direct sunlight for extended periods of time. Park the vehicle in the shade, especially during summer.
- Do not place items made of vinyl, plastic, or that contain wax on the upholstery, as they may stick to the leather surface if the vehicle interior heats up significantly.

■ **Water on the floor**

Do not soak the floor carpet with water or other liquids when cleaning.

Vehicle systems such as electrical control systems and the audio system may be damaged if liquids come into contact with them. In addition, water may cause the body to rust.

■ **Cleaning the inside of the rear window and windshield**

Be careful not to scratch or damage the heater wires, connectors or antenna.

■ **Cleaning the display**

The air conditioning control panel and audio display screens are coated to avoid reflection. Do not use chemicals or detergent. Wipe with a dry cloth.

Maintenance requirements

To ensure safe and economical driving, day-to-day care and regular maintenance is essential. It is the owner's responsibility to perform regular checks.

Lexus recommends the following maintenance:

General maintenance

Should be performed on a daily basis. This can be done yourself or by a Lexus dealer.

Scheduled maintenance

Should be performed at specified intervals according to the maintenance schedule.

For details about maintenance items and schedules, refer "Warranty and Services Guide/Owner's Manual Supplement/Scheduled Maintenance".

Do-it-yourself maintenance (→P.214)

You can perform some maintenance procedures yourself.
Please be aware that do-it-yourself maintenance may affect warranty coverage.

The use of Lexus Repair Manuals is recommended.

For details about warranty coverage, see separate "Owner's Guide", "Warranty and Services Guide", "Owner's Manual Supplement" or "Warranty Booklet".

Service and repairs not covered in this Owner's Manual should be performed by a qualified technician using Lexus service and repair publications.

Repair and replacement

It is recommended that genuine Lexus parts be used for repairs to ensure optimum performance. If non-Lexus replacement parts are used or if a repair shop other than a Lexus dealer performs repairs, confirm the warranty coverage.

Have inspections and repairs performed by a Lexus dealer whenever possible

- Lexus technicians are well-trained specialists and are kept up to date with the latest service information. They specialize in the operation of all systems on your Lexus.
- Keep a copy of the repair order. It proves that the maintenance that has been performed is under warranty coverage. If any problem should arise while your vehicle is under warranty, your Lexus dealer will promptly take care of it.

CAUTION

Hazardous materials

- Engine exhaust, some of its constituents, and a wide variety of automobile components contain or emit chemicals known to the State of California to cause cancer and birth defects and other reproductive harm. Work in a well ventilated area.
- Oils, fuels and fluids contained in vehicles as well as waste produced by component wear contain or emit chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. Avoid exposure and wash any affected area immediately.
- Battery posts, terminals and related accessories contain lead and lead compounds which are known to cause brain damage. Wash your hands after handling. (→P.231)
- Used engine oil contains chemicals that have caused cancer in laboratory animals. Avoid prolonged and repeated contact. Always protect your skin by washing thoroughly with soap and water.

General maintenance

Listed below are the general maintenance items that should be performed at the interval specified in the Warranty and Services Guide/Owners Manual Supplement. It is recommended that any problem you notice should be brought to the attention of your Lexus dealer or qualified service shop for advice.

Engine compartment

Items	Check points	
Battery	• Maintenance-free.	(→P.231)
Brake fluid	• At the correct level?	(→P.228)
Engine coolant	• At the correct level?	(→P.226)
Engine oil	• At the correct level?	(→P.222)
Exhaust system	• No fumes or strange sound?	
Power steering fluid	• At the correct level?	(→P.230)
Radiator/condenser/ hoses	• Not blocked with foreign matter?	(→P.228)
Washer fluid	• Sufficient?	(→P.235)

Vehicle interior

Items	Check points
Accelerator pedal	• Moves smoothly (without uneven pedal effort or catching)?
Automatic transmission "Park" mechanism	• Can hold the vehicle securely on a incline with the selector lever in "P"?
Brakes	• Not pull to one side when applied? • Loss of brake effectiveness? • Spongy feeling brake pedal? • Pedal almost touches floor?
Brake pedal	• Does it have appropriate clearance and correct amount of free play?
Head restraints	• Move smoothly and lock securely?
Indicators/buzzers	• Function properly?
Lights	• Do all the lights come on? • Headlights aimed correctly? (→P.266)
Parking brake	• Moves smoothly? • Can hold the vehicle securely on a incline?
Seats	• The seat controls operate properly?
Seat belts	• Does the seat belt system operate smoothly? • Are the belts undamaged?
Steering wheel	• Moves smoothly? • Has correct free play? • No strange noise?

Vehicle exterior

Items	Check points
Door/ trunk	• Do they operate smoothly? • Do the locks work properly?
Engine hood	• Does the hood latch and lock work properly?
Fluid leaks	• Are there any leaks when the vehicle is parked?
Tire	• Is the inflation pressure correct? (→P.245) • Are tire surfaces worn or damaged? (→P.236) • Do the tires need to be rotated according to the maintenance schedule? (→P.236) • Are the wheel lug nuts loose?

CAUTION

If the engine is running

Turn the engine off and ensure that there is adequate ventilation before performing maintenance checks.

Emission inspection and maintenance (I/M) programs

Some states have vehicle emission inspection programs which include OBD (On-Board Diagnostics) checks.
The OBD system monitors the operation of the emission control system.

If the malfunction indicator lamp comes on

The OBD system determines that a problem exists somewhere in the emission control system. Your vehicle may not pass the I/M test and may need to be repaired. Contact your Lexus dealer to service the vehicle.

Your vehicle may not pass the I/M test:

- When the battery is disconnected or discharged

  Readiness codes that are set during ordinary driving are erased. Also, depending on your driving habits, the readiness codes may not be completely set.

- When the fuel tank cap is loose

  The Malfunction indicator lamp comes on as temporary malfunction and your vehicle may not pass the I/M test.

When the malfunction indicator lamp goes off after several driving trips

The error code in the OBD system will not be cleared unless the vehicle is driven 40 or more times.

If your vehicle does not pass the I/M test

Contact your Lexus dealer to prepare the vehicle for retesting.

Do-it-yourself service precautions

If you perform maintenance yourself, be sure to follow the correct procedure given in these sections.

Do-it-yourself maintenance	Parts and tools
Battery condition (→P.231)	• Warm water • Baking soda • Grease • Conventional wrench (for terminal clamp bolts)
Blade type fuses (→P.256)	• Fuse with same amperage rating as original
Brake fluid level (→P.228)	• FMVSS No.116 DOT 3 or SAE J1703 brake fluid • Rag or paper towel • Funnel (used only for adding fluid)
Cartridge type fuses (→P.264)	• Genuine Lexus fuse or equivalent with same amperage rating as original
Engine air filter	• Genuine Lexus engine air filter or equivalent
Engine coolant level (→P.226)	• "Toyota Super Long Life Coolant" or similar high quality ethylene glycol based non-silicate, non-amine, non-nitrite and non-borate coolant with long-life hybrid organic acid technology. "Toyota Super Long Life Coolant" is pre-mixed with 50% coolant and 50% de-ionized water (for the U.S.A.) or 55% coolant and 45% de-ionized water (for Canada). • Funnel (used only for adding coolant)
Engine oil level (→P.222)	• "Toyota Genuine Motor Oil" or equivalent • Rag or paper towel • Funnel (used only for adding oil)
Headlight aim (→P.266)	• Phillips-head screwdriver

Do-it-yourself maintenance	Parts and tools
Power steering fluid level (→P.230)	• Automatic transmission fluid DEXRON® II or III • Rag or paper towel • Funnel (used only for adding fluid)
Radiator and condenser (→P.228)	—
Tire inflation pressure (→P.245)	• Tire pressure gauge • Compressed air source
Washer fluid (→P.235)	• Washer fluid containing antifreeze (for winter use) • Funnel (used only for adding washer fluid)

CAUTION

The engine compartment contains many mechanisms and fluids that many move suddenly, become hot, or become electrically energized. To avoid death or serious injury:

■ **When working on the engine compartment:**

- Keep hands, clothing, and tools away from the moving fan and engine drive belt.
- Be careful not to touch the engine, radiator, exhaust manifold and power steering fluid reservoir, etc. right after driving as they may be hot. Oil and other fluids may also be hot.
- Do not leave anything that may burn easily, such as paper or rags, in the engine compartment.
- Do not smoke, cause sparks or expose an open flame to fuel or the battery. Fuel and battery fumes are flammable.
- Be extremely cautious when working on the battery. It contains poisonous and corrosive sulfuric acid.

■ **When the engine is running**

Perform maintenance checks with adequate ventilation.

■ **When working near the electric cooling fan or radiator grill:**

Be sure the engine switch is off. With the engine switch on, the electric cooling fan may automatically start to run if the air conditioning is on and/or if the coolant temperature is high. (→P.221)

■ **Safety glasses**

- Use eye protection to prevent flying or falling material, fluid spray, etc. from getting in your eyes.

NOTICE

■ **If you remove the engine air filter:**

Driving with the engine air filter removed may cause excessive engine wear due to dirt in the air.

Also, a backfire could cause a fire in the engine compartment.

Hood

Lift the hood to inspect engine components and fluid levels.

STEP 1

Pull the hood release lever.

The hood will pop up slightly.

STEP 2

Lift the hood catch and lift the hood.

CAUTION

■ **Pre-driving check**

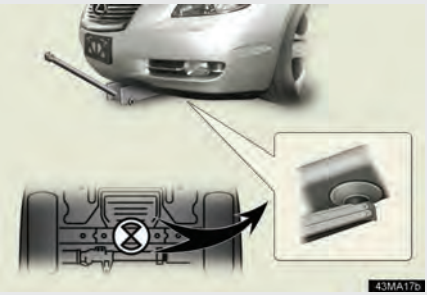
Check that the hood is fully closed and locked.

If the hood is not locked properly it may open while the vehicle is in motion and cause an accident, which may result in death or serious injury.

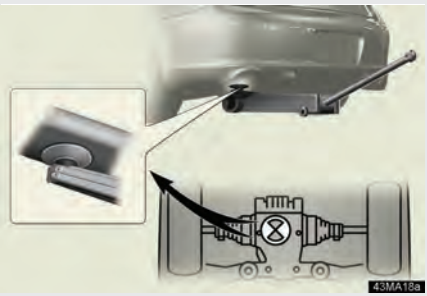
Positioning a floor jack

When raising your vehicle, position a floor jack correctly. Improper placement may damage your vehicle or cause injury.

▶ FRONT



▶ REAR



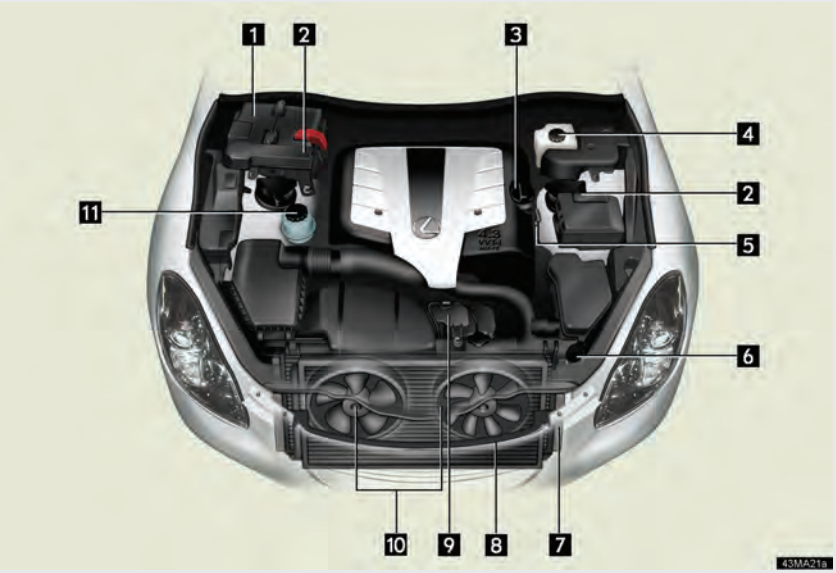
CAUTION

■ **When raising your vehicle:**

Make sure to observe the following to reduce the possibility of death or serious injury.

- Lift up the vehicle using a floor jack such as the one shown in the illustration.
- Do not use the jack that was supplied with your vehicle.
- Do not put any part of your body or get underneath the vehicle supported only by the floor jack.
  Always use automotive jack stands or a solid, level, surface.
- Do not start or run the engine while your vehicle is supported by the floor jack.
- Stop the vehicle on level firm ground, firmly set the parking brake and put the selector lever in "P" position.
- Make sure to set the floor jack properly at the jack point.
  Raising the vehicle with an improperly positioned floor jack will damage the vehicle or may allow the vehicle to fall off the floor jack.
- Do not raise the vehicle with someone in the vehicle.
- When raising the vehicle, do not place any objects on top of or underneath the floor jack.

Engine compartment



1 Battery (→P.231)
2 Fuse box (→P.256, P.264)
3 Engine oil filler cap (→P.222)
4 Brake fluid reservoir (→P.228)
5 Engine oil level dipstick (→P.222)
6 Washer fluid tank (→P.235)
7 Radiator (→P.228)
8 Condenser (→P.228)
9 Engine coolant reservoir (→P.226)
10 Electric cooling fans
11 Power steering fluid reservoir (→P.230)

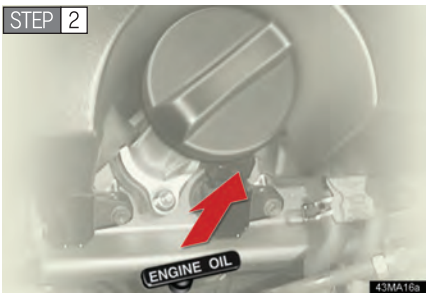
Engine oil

With the engine at operating temperature and turned off, check the oil level on the dipstick.

Checking the engine oil

STEP 1 Park the vehicle on level ground.
After turning off the engine, wait more than five minutes for the oil to drain back into the bottom of the engine.

STEP 2

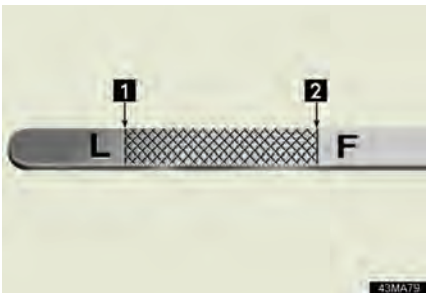


Hold a rag under the end and pull the dipstick out.

STEP 3 Wipe it clean.

STEP 4 Standing up on the left side of the vehicle, reinsert the dipstick in the direction so that the "ENGINE OIL" on top should be read correctly.

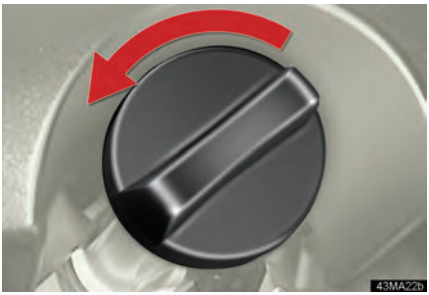
STEP 5 Holding a rag under the end, pull the dipstick out and check the oil level.



1 Low
2 Full

STEP 6 Wipe dipstick and reinsert until fully seated.

Adding engine oil



If the oil level is below or near the low line, add engine oil of the same type as already in the engine.

Make sure to check the oil type and prepare the items needed before adding.

Oil grade	ILSAC multigrade engine oil
Items	Clean funnel (only for adding oil)

STEP 1 Remove the oil filler cap.

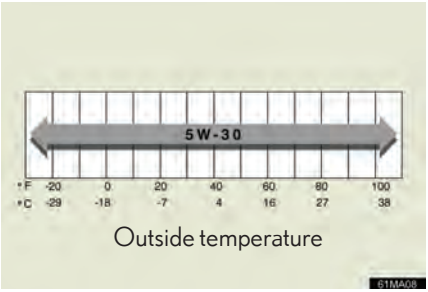
STEP 2 Add engine oil slowly, checking the dipstick.

STEP 3 Return the filler cap and turn the cap clockwise until you hear a click.

It takes about 1.6 qt. (1.5 L, 1.3 Imp.qt.) to raise the oil level from low to full on the dipstick.

Recommended viscosity

Temperature range anticipated before next oil change.



SAE 5W-30 is the best choice for good fuel economy, and good starting in cold weather.

If SAE 5W-30 oil is not available, SAE 10W-30 oil may be used. However, it should be replaced with SAE 5W-30 at the next oil change.

How to read oil container labels

The ILSAC (International Lubricant Standardization and Approval Committee) Certification Mark is added to some oil containers to help you select the oil you should use.

ILSAC Certification Mark

Resetting the engine oil replacement reminder (U.S.A. only)

STEP 1 Turn the engine switch to the "OFF" position with the odometer reading shown. (→P.117)

STEP 2 Turn the engine switch to the "ON" position while holding down the "RESET" button.

STEP 3 Hold down the button more than 5 seconds.

If the system fails to reset, the light will continue flashing.

Engine oil consumption

- The amount of engine oil consumed depends on the oil viscosity, the quality of the oil and the way the vehicle is driven.
- More oil is consumed under driving conditions such as high speeds and frequent acceleration and deceleration.
- A new engine consumes more oil, since its pistons, piston rings and cylinder walls have not become conditioned.
- When judging the amount of oil consumption, keep in mind that the oil may have become diluted, making it difficult to judge the true level accurately.
- Oil consumption: Max. 1.1 qt. per 600 miles (1.0 L/1000 Km, 0.9 Imp.qt/600 miles).
- If you consume more than 1.1 qt. (1.0 L, 0.9 Imp.qt.) every 600 miles (1000 km), contact your Lexus dealer.

CAUTION

Used engine oil

- Used engine oil contains potentially harmful contaminants which may cause skin disorders such as inflammation or skin cancer, so care should be taken to avoid prolonged and repeated contact with it. To remove used engine oil from your skin, wash thoroughly with soap and water.
- Dispose of used oil and filters only in a safe and acceptable manner. Do not dispose of used oil and filters in household trash, in sewers or onto the ground. Call your Lexus dealer, service station or auto parts store for information concerning recycling or disposal.
- Do not leave used engine oil within the reach of children.

NOTICE

To prevent serious engine damage

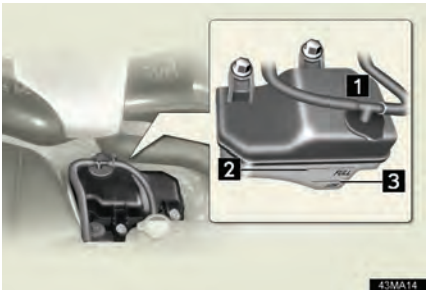
Check the oil level regularly.

When replacing the engine oil

- Be careful not to spill engine oil on the vehicle components.
- Avoid overfilling, or the engine could be damaged.
- Check the oil level on the dipstick every time you refill the vehicle.
- Be sure the engine oil filler cap is properly retightened.

Engine coolant

The coolant level is satisfactory if it is between the “FULL” and “LOW” lines on the reservoir when the engine is cold.



1 Reservoir cap
2 Full line
3 Low line

If the level is on or below the “LOW” line, add coolant to the reservoir up to the “FULL” line.

■ If the coolant level drops within a short time after replenishing

Visually check the radiator, hoses, engine coolant filler cap, radiator cap and drain cock and water pump. If you can not find a leak, have your Lexus dealer test the cap pressure and check for leaks in the cooling system.

■ Coolant type selection

Use of improper coolants may damage your engine cooling system.

Only use “Toyota Super Long Life Coolant” or similar high quality ethylene glycol based non-silicate, non-amine, non-nitrite, and non-borate coolant with long-life hybrid organic acid technology. (Coolant with long-life hybrid organic acid technology is a combination of low phosphates and organic acids.)

For the U.S.A. :“Toyota Super Long Life Coolant” is a mixture of 50% coolant and 50% deionized water. (Enabled: -31°F (-35°C))

For Canada :“Toyota Super Long Life Coolant” is a mixture of 55% coolant and 45% deionized water. (Enabled: -44°F (-42°C))

Please contact your Lexus dealer for further details.

CAUTION

When the engine is hot

Do not remove the radiator cap. The cooling system may be under pressure and may spray hot coolant if the cap is removed, causing burns or other injuries.

Do not touch the radiator or condenser, as they may be hot and may cause burns.

NOTICE

When adding engine coolant

Coolant is neither plain water nor straight antifreeze. The correct mixture of water and antifreeze must be used to provide proper lubrication, corrosion protection and cooling. Be sure to read the antifreeze or coolant label.

If you spill coolant:

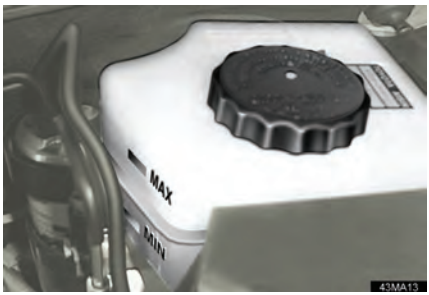
Be sure to wash it off with water to prevent damage to parts or paint.

Radiator and condenser

Check the radiator and condenser and clear any foreign objects. If the parts are extremely dirty or you are not sure of their condition, have your vehicle checked by your Lexus dealer.

Brake fluid

Fluid level



The brake fluid level should be between the "MAX" and "MIN" lines on the tank.

Make sure to check the fluid type and prepare the necessary items.

Fluid type	FMVSS No.116 DOT 3 or SAE J1703 brake fluid
Items	Funnel (for adding brake fluid only)

Adding fluid

STEP 1 Turn the engine switch off.

STEP 2 Depress the brake pedal 40 times or more.

STEP 3 Remove the reservoir cap.

STEP 4 Add newly opened brake fluid up to the “MAX” line.

Brake fluid absorbs moisture from the air

Excess moisture in the fluid can cause a dangerous loss of braking efficiency. Use only newly opened brake fluid.

CAUTION

When filling the reservoir

Be careful because brake fluid can harm your hands or eyes and damage painted surfaces.

If fluid gets in your eyes, flush your eyes with clean water immediately.

If you still experience discomfort, seek medical attention.

NOTICE

If the fluid level is low or high

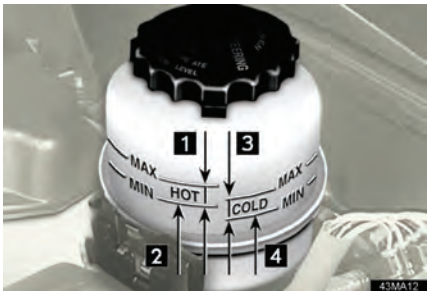
It is normal for the brake fluid level to go down slightly as the brake pads wear or when the fluid level in the accumulator is high.

If the reservoir needs frequent refilling, it may indicate a serious mechanical problem.

Have the system checked by your Lexus dealer.

Power steering fluid

Fluid level



The fluid level should be within the appropriate range.

1 Full line when hot.
2 Add fluid if at or below line when hot.
3 Full line when cold
4 Add fluid if at or below line when cold.

Hot: If the vehicle has been driven around 50 mph (80 km/h) for 20 minutes (slightly longer in frigid temperatures), the fluid is hot (140°F - 175°F or 60°C - 80°C).

Cold: If the engine has not been run for about five hours, the fluid is cold. (about room temperature, 50°F - 85°F or 10°C - 30°C).

Checking the fluid level

Make sure to check the fluid type and prepare the necessary items before checking.

Fluid type	Automatic transmission fluid DEXRON® II or III
Items	Rag or paper towel and funnel (only for adding fluid)

STEP 1 Clean all dirt off the reservoir.

STEP 2 Remove the reservoir cap by turning it counterclockwise and wipe the dipstick clean.

STEP 3 Reinstall the reservoir cap.

STEP 4 Remove the reservoir cap again and look at the fluid level.

CAUTION

When checking the reservoir

Take care, as the reservoir may be hot.

NOTICE

When adding fluid

Avoid overfilling, or the power steering may be damaged.

After replacing the reservoir cap

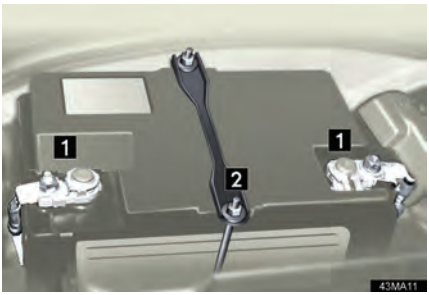
Check the steering box case, vane pump and hose connections for leaks or damage.

Battery

Check the battery as follows:

Battery exterior

Make sure that the battery terminals are not corroded and that there are no loose connections, cracks, or loose clamps.



1 Terminals

2 Hold-down clamp

Before recharging

Recharging, the battery produces hydrogen gas which is flammable and explosive.

Before recharging:

- If recharging with the battery installed in the vehicle, be sure to disconnect the ground cable.
- Make sure the power switch on the recharger is off when connecting and disconnecting the charger cables to the battery.

CAUTION

Emergency measures regarding electrolyte

- If electrolyte gets in your eyes
  Flush them with clean water for at least 15 minutes and get immediate medical attention. If possible, continue to apply water with a sponge or cloth while traveling to the medical office.
- If electrolyte gets on your skin
  Thoroughly wash the affected area. If you feel pain or burning, get medical attention immediately.
- If electrolyte gets on your clothes
  It can soak through clothing onto your skin. Immediately take off the clothing and follow the procedure above if necessary.
- If you accidentally swallow electrolyte
  Drink a large quantity of water or milk. Follow with milk of magnesia, beaten raw egg or vegetable oil. Get emergency medical attention immediately.

Chemicals in the battery:

A battery contains poisonous and corrosive sulfuric acid and may produce hydrogen gas which is flammable and explosive. To reduce the risk of death or serious injury, take the following precautions while working on or near battery:

- Do not cause sparks by touching the battery terminals with tools.
- Do not smoke or light a match near the battery.
- Avoid contact with eyes, skin and clothes.
- Never inhale or swallow electrolyte.
- Wear protective safety glasses when working near the battery.
- Keep children away from the battery.

Where to safety recharge the battery

Always charge the battery in an open area. Do not charge the battery in a garage or closed room where there is not sufficient ventilation.

CAUTION

How to recharge the battery

Only perform a slow charge (5 A or less). The battery may explode if charged at a quicker rate.

NOTICE

When recharging the battery

Never recharge the battery while the engine is running. Also, be sure all accessories are turned off.

Washer fluid

Adding fluid

If any washer does not work, the washer tank may be empty. Add washer fluid.

CAUTION

When refilling the washer fluid

Do not refill the washer fluid when the engine is hot or running, as the washer fluid contains alcohol and may catch fire if spilled on the engine etc.

NOTICE

Use washer fluid only

Do not use soapy water or engine anti-freeze instead of washer fluid.
Doing so may result in streaking the vehicle's painted surface.

Diluting washer fluid

Dilute washer fluid with water as necessary.
Refer to the freezing temperatures listed on the washer fluid tank when diluting washer fluid.

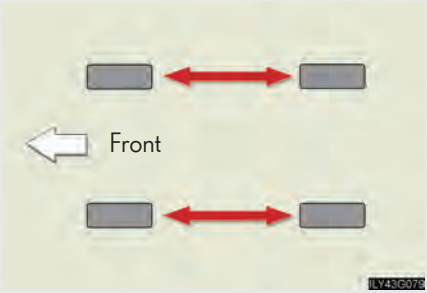
Replace the tires when the treadwear indicators show.

Checking tires

1 New tread
2 Treadwear indicator
3 Worn tread

The location of treadwear indicators is shown by the "TWI" or "Δ" marks, etc., molded on the sidewall of each tire.

Tire rotation



The wheel assemblies must be rotated as shown.

To equalize tire wear and extend tire life, Lexus recommends that tire rotation is carried out at the same interval as tire inspection.

The tire pressure warning system

Your Lexus is equipped with a tire pressure warning system that uses tire pressure warning valve & transmitters to detect low tire inflation pressure before serious problems arise. (→P. 287)

Installing tire pressure warning valve & transmitters

When replacing tires or wheels, tire pressure warning valve & transmitters must also be installed.

When new tire pressure warning valve & transmitters are installed, new tire pressure warning valve & transmitter ID codes must be registered in the tire pressure warning computer and tire pressure warning system must be initialized. Have tire pressure warning valve & transmitter ID codes registered by your Lexus dealer. (→P. 237, 238)

Initializing the tire pressure warning system

The tire pressure warning system must be initialized in the following circumstances:

- When changing the tire inflation pressure by changing traveling speed or load weight, etc.

When the tire pressure warning system is initialized, the current tire inflation pressure is set as the pressure benchmark.

How to initialize the tire pressure warning system

STEP 1 Park the vehicle in safe place and turn the engine switch to "ACC" or "LOCK" position.
While the vehicle is moving, initialization is not performed.

STEP 2 Adjust the tire inflation pressure to the specified cold tire inflation pressure level. (→P. 245)
Make sure to adjust the tire pressure to the specified cold tire inflation pressure level. The tire pressure warning system will operate based on this pressure level.

STEP 3 Turn the engine switch to "ON" position.

Push and hold the tire pressure warning reset switch until the tire pressure warning light blinks slowly three times.

STEP 5 Wait for a few minutes with the engine switch "ON", and then turn the engine switch to "ACC" or "LOCK" position.

Registering and selecting ID codes

Registering ID codes

2 sets of tire pressure warning valve and transmitter ID codes can be registered. Once a second set of tires is registered at "2nd", you can switch between tire set settings simply by pressing the tire pressure warning select switch.

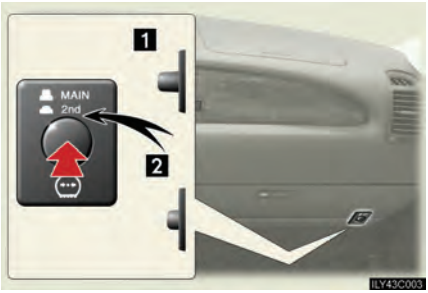
There are 2 settings:

"MAIN" position: The ID code of the tire pressure warning valve & transmitter on the tires originally installed on the vehicle is registered.

"2nd" position: The ID code is not registered. When you replace a new set of tires, purchase tire pressure warning valve & transmitters from your Lexus dealer and have the new ID code registered by your Lexus dealer.

Selecting ID codes

When replacing tires, make sure to select the ID code set that matches the new tire set. If the tire pressure select switch is set to the wrong tire setting, the tire pressure warning system will not operate properly. After about 20 minutes, the tire pressure warning light comes on after blinking for 1 minute to indicate a system malfunction.



1 "MAIN"
2 "2nd"

When to replace your vehicle's tires

Tires should be replaced if:

- You have tire damage such as cuts, splits, cracks deep enough to expose the fabric or bulges indicating internal damage
- A tire goes flat repeatedly or cannot be properly repaired due to the size or location of a cut or other damage

If you are not sure, consult with your Lexus dealer.

Replacing tires and wheels

If the ID code of the tire pressure warning valve and transmitter is not registered, the tire pressure warning system will not work properly. After driving for about 20 minutes, the tire pressure warning light comes on after blinking for 1 minute to indicate a system malfunction.

Tire life

Any tire over 6 years old must be checked by a qualified technician even if they have seldom or never been used or damage is not obvious.

■ If the tread wears down below 0.16 in. (4 mm) on snow tires

The effectiveness of snow tires is lost.

■ Low profile tires (245/40R18, P245/40R18 and 245/40ZR18 tires)

Generally, low profile tires will wear more rapidly and tire grip performance will be reduced on snowy and/or icy roads when compared to standard tires. Be sure to use snow tires or snow chains on snowy and/or icy roads and drive carefully at a speed appropriate for road and weather conditions.

■ Maximum load of tire

Check that the maximum load of the replaced tire is greater than 1/2 of the Gross Axle Weight Ratings (GAWR) of either the front axle or the rear axle, whichever is greater.
As for the maximum load of the tire, see the load limit at maximum cold tire inflation pressure mentioned on the sidewall of the tire, and as for the Gross Axle Weight Ratings (GAWR), see the Certification Label. (→P. 245, 329).

■ Tire types

1 Summer tires

Summer tires are high-speed performance tires best suited to highway driving under dry conditions. Since summer tires do not have the same traction performance as snow tires, summer tires are inadequate for driving on snow-covered or icy roads. For driving on snow-covered roads or icy roads, the use of snow tires is recommended. When installing snow tires, be sure to replace all four tires.

2 All season tires

All season tires are designed to provide better traction in snow and to be adequate for driving in most winter conditions, as well as for use year round. All season tires, however, do not have adequate traction performance compared with snow tires in heavy or loose snow. Also, all season tires fall short in acceleration and handling performance compared with summer tires in highway driving.

3 Snow tires

For driving on snow-covered roads or icy roads, we recommend using snow tires. If you need snow tires, select tires of the same size, construction and load capacity as the originally installed tires. Since your vehicle has radial tires as original equipment, make sure your snow tires also have radial construction. Do not install studded tires without first checking local regulations for possible restriction. Snow tires should be installed on all wheels. (→P. 143)

Initializing the tire pressure warning system

Initialize the tires with the tire inflation pressure adjusted to the specified level.

If you push the tire pressure warning reset switch accidentally

If initialization is performed, adjust the tire inflation pressure to the specified level and initialize the tire pressure warning system again.

When the initialization of the tire pressure warning system has failed

Initialization can be completed in a few minutes. However, in the following cases, the settings have not been recorded and the system will not operate properly. If repeated attempts to record tire inflation pressure settings are unsuccessful, have the vehicle inspected by your Lexus dealer.

- When operating the tire pressure warning reset switch, the tire pressure warning light does not flash 3 times.
- After carrying out the initialization procedure, the tire pressure warning light blinks for 1 minute then stays on after driving for 20 minutes.

Routine tire inflation pressure checks

The tire pressure warning system does not replace routine tire inflation pressure checks. Make sure to check tire inflation pressure as part of your routine of daily vehicle checks.

■ **Tire pressure warning system certification**

FCC ID: PAXPMV107J

FCC ID: HYQ13BCS

IC ID: 3729A-PMV107J

IC ID: 1551A-13BCS

▶ For vehicles sold in the U.S.A.

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

FCC WARNING:
Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

▶ For vehicles sold in Canada

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

CAUTION

Tire pressure warning system operation

The tire pressure warning system may not provide warning immediately if a tire burst or if sudden air leakage occurs.

When inspecting or replacing tires

Observe the following precautions to prevent accidents. Failure to do so may cause damage to parts of the drive train, as well as dangerous handling characteristics, which may lead to fatal or injury accidents.

- Do not mix tires of different makes, models, tread patterns or treadwear.
- Do not use tire sizes other than those recommended by Lexus.
- Do not mix radial, bias-belted, or bias-ply tires.
- Do not mix summer, all season and winter tires.
- Do not use tires that have been used on another vehicle. Do not use tires if you do not know how they were used previously.

When initializing the tire pressure warning system

Do not push the tire pressure warning reset switch without first adjusting the tire inflation pressure to the specified level. Otherwise, the tire pressure warning light may not come on even if the tire inflation pressure is low, or it may come on when the tire inflation pressure is actually normal.

NOTICE

■ **Repairing or replacing tires, wheels and tire pressure warning valve & transmitters**

When removing or fitting the wheels, tires or the tire pressure warning valve & transmitter, contact your Lexus dealer as the tire pressure warning valve & transmitter may be damaged if not handled correctly.

■ **To avoid damaging the tire pressure warning valves and transmitters**

Do not use liquid sealants on flat tires.

■ **Driving on rough roads**

Take particular care when driving on roads with loose surfaces or potholes.
These conditions may cause losses in tire inflation pressure, reducing the cushioning ability of the tires. In addition driving on rough roads may cause damage to the tires themselves, as well as the vehicle's wheels and body.

■ **Low profile tires (245/40R18, P245/40R18 and 245/40ZR18 tires)**

Low profile tires may cause greater damage than usual to the tire wheel when receiving impact from the road surface. Therefore pay attention to the following:

- Be sure to use proper tire inflation pressure. If tires are under-inflated, they may be damaged more severely.
- Avoid hot holes, uneven pavement, curbs and other road hazards. Failure to do so can lead to severe tire and wheel damage.

■ **If tire inflation pressures become low while driving**

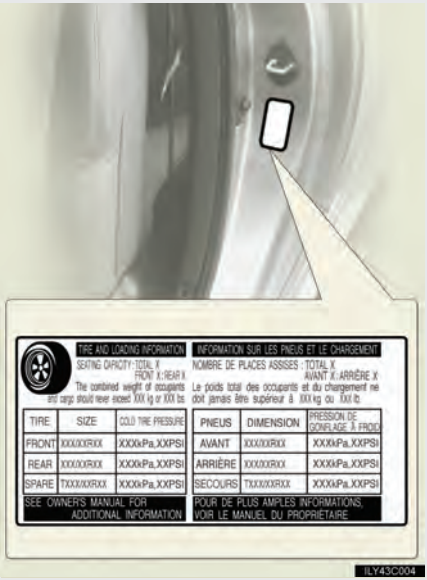
Do not continue driving, or your tires and/or wheels may be ruined.

Tire inflation pressure

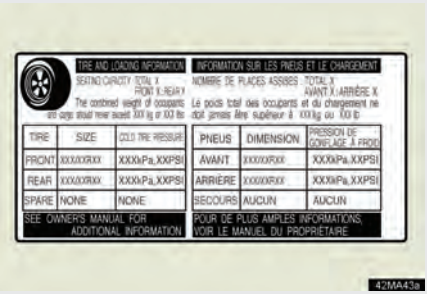
Tire inflation pressure

The recommended cold tire inflation pressure and tire size is displayed on the tire and loading information label.

▶ Vehicles with compact spare tire



▶ Vehicles without compact spare tire



Recommended cold tire inflation pressure

Tire size	Inflation pressure psi (kPa, kgf/cm^2 or bar)	
245/40R18 93Y	Front	33 (230, 2.3)
	Rear	33 (230, 2.3)
P245/40R18 93V	Front	33 (230, 2.3)
	Rear	33 (230, 2.3)
245/40ZR18	Front	33 (230, 2.3)
	Rear	33 (230, 2.3)

For sustained high speeds above 112 mph (180 km/h), in countries where such speeds are permitted by law, add the below pressure to the front tires and rear tires, but never exceed the maximum cold tire inflation pressure molded on the tire sidewall.

- 12 psi (80 kPa, 0.8 kgf/cm^2 or bar)

Inspection and adjustment procedure

1 Tire valve

2 Tire pressure gauge

STEP 1 Remove the tire valve cap.

STEP 2 Press the tip of the tire pressure gauge to the tire valve.

STEP 3 Read the pressure using the graduations on the gauge.

STEP 4 If the tire inflation pressure is not within recommended levels, inflate the tire.

If you add too much air, press the center of the valve to lower.

STEP 5 After completing tire inflation pressure measurement and adjustment, apply soapy water to the valve and check for leakage.

STEP 6 Reinstall the tire valve cap.

Tire inflation pressure check interval

You should check the tire inflation pressure every two weeks, or at least once a month.

Do not forget to check the air pressure of the spare tire, if so equipped. The inflation pressure for the compact spare tire should be 60 psi (420 kPa, 4.3 kgf/cm^2, 4.2 bar). (→P.335)

Effects of incorrect tire inflation pressure

Driving with incorrect tire inflation pressure may result in the following:

- Wasting fuel
- Reducing driving comfort and tire life
- Making your vehicle less safe to drive

If a tire needs frequent refilling, have it checked by your Lexus dealer.

Instructions for checking tire inflation pressure

When checking tire inflation pressure, observing the following:

- Check only when the tires are cold.
  If your vehicle has been parked for at least 3 hours and has not been driven for more than 1 mile or 1.5 km since, you will get an accurate cold tire inflation pressure reading.
- Always use a tire pressure gauge.
  The appearance of the tire can be misleading. In addition, tire inflation pressures that are even just a few pounds off can degrade ride and handling.
- Do not bleed or reduce tire inflation pressure after driving.
  It is normal for the tire inflation pressure to be higher after driving.
- Never exceed the vehicle weight capacity.
  Passengers and luggage weight should be placed so that the vehicle is balanced.

CAUTION

When inspecting and adjusting tire pressure

Be sure to reinstall the tire valve caps.

Without the valve caps, dirt or moisture could get into the valve and cause air leakage, which could result in an accident. If the caps have been lost, have new ones put on as soon as possible.

Proper inflation is critical to safe tire performance

Keep your tires properly inflated. Otherwise, the following conditions may occur and result in an accident causing in death or serious injury.

- Excessive wear
- Uneven wear
- Poor handling
- Possibility of blowouts from overheated tires
- Poor sealing of the tire bead
- Wheel deformation and/or tire separation
- A greater possibility of tire damage from road hazards

Prior to operating your vehicle, visually inspect the tires, check for abnormal tread-wear, bulging, low ride, cracking, and other damage. If you suspect something is wrong with a tire, have it checked by a qualified technician.

NOTICE

When inspecting and adjusting tire inflation pressure

Be sure to reinstall the tire valve caps.

Without the valve caps, dirt or moisture could get into the valve and cause air leakage, which could result in an accident. If the caps have been lost, replace them as soon as possible.

If your wheel is bent, cracked or heavily corroded, the wheel should be replaced. Otherwise, the tire may separate from the wheel or cause loss of handling control.

Wheel selection

When replacing wheels, care should be taken to ensure that they are equivalent to those removed in load capacity, diameter, rim width, and offset.
Replacement wheels are available at your Lexus dealer.

Lexus does not recommend using:

- Wheels of different sizes or types
- Used wheels
- Bent wheels that have been straightened
- Lexus wheels with after market chrome plating

Aluminum wheel precautions

- Use only Lexus wheel nuts and a wrench designed for your aluminum wheels.
- When rotating, repairing or changing your tires, check that the wheel nuts are still tight after driving 1000 miles (1600 km).
- Be careful not to damage the aluminum wheels when using tire chains.
- Use only Lexus balance weights or equivalent and a plastic or rubber hammer when balancing your wheels.

When replacing wheels

The wheels of your Lexus are equipped with tire pressure warning valve & transmitters that allow the tire pressure warning system to provide advanced warning in the event of a loss in tire inflation pressure. Whenever wheels are replaced, the tire pressure warning valve & transmitters must be installed. (→P. 237)

CAUTION

When replacing wheels

- Do not use wheels that are a different size from those recommended in the Owner's Manual, as this may result in loss of handling control.
- Never using an inner tube in a leaking wheel which is designed for a tubeless tire. Doing so may result in an accident, causing death or serious injury.

NOTICE

Replacing tire pressure warning valve & transmitters

- Because tire repair or replacement may affect the tire pressure warning valve & transmitters, make sure to have tires serviced by your Lexus dealer or other qualified service shop. In addition, make sure to purchase your tire pressure warning valve & transmitters at your Lexus dealer.
- Ensure that only genuine Lexus wheels are used on your vehicle.
  Tire pressure warning valve & transmitters may not work properly with non-genuine wheels.

Wheel ornaments

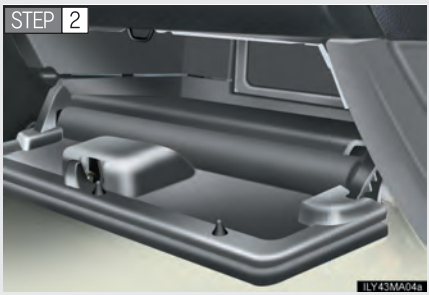
Do not remove the wheel ornaments. Doing so may cause damage to the clips inside the ornaments.

Air conditioning filter

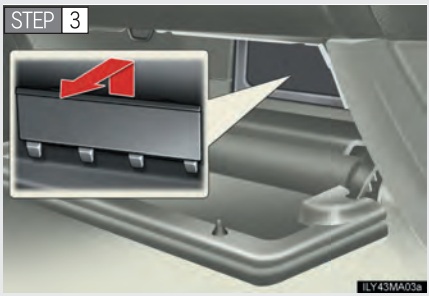
The air conditioning filter must be changed regularly to maintain air conditioning efficiency.

How to replace the air conditioning filter

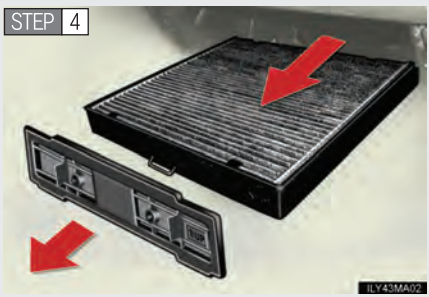
STEP 1 Turn the engine switch to LOCK.



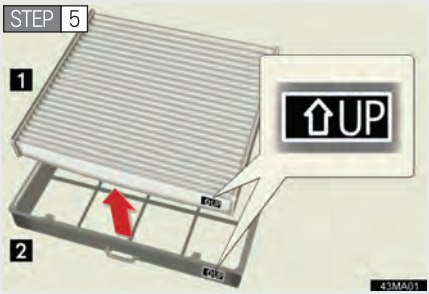
Open the glove box.



Pull the cover.



Remove the filter cover and take out the filter.



1 Filter

2 Filter case

Remove the air conditioning filter from the filter case and replace it with a new one.

The ↑ UP marks shown on the filter and the filter case should be pointing up.

■ **Changing interval**

Inspect and replace the air conditioning filter according to the maintenance schedule. In dusty areas or areas with heavy traffic flow, such as inner city or desert areas, early replacement may be required. (For scheduled maintenance information, please refer to the "Warranty and Services Guide/Owner's Manual Supplement/Scheduled Maintenance".)

■ **If air flow decreases dramatically**

The filter may be clogged. Check the filter and replace if necessary.

⚠ NOTICE

■ **When using the air conditioning system**

Use of the system with the air filter removed or improperly installed could result in a malfunction.

Make sure that a filter is always installed.

■ **Do not wash or air-blow the filter**

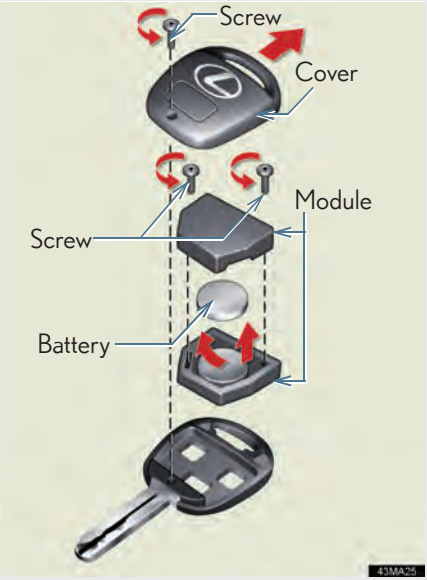
Do not wash or air-blow the filter or it may cause the system to malfunction. Always replace dirty filters.

Wireless remote control battery

Replace the battery with a new one if it discharges.

You will need the following items:

- Small Phillips-head screwdriver
- Lithium battery (CR1616)



STEP 1 Remove the screws.

STEP 2 Push the cover in the direction of the arrow and remove it.

STEP 3 Remove the module.

STEP 4 Remove the two screws and the module cover.

STEP 5 Insert a new battery with the + terminal facing up.

If the wireless remote control key battery is discharged

The following symptoms may occur:

- The wireless remote control does not function properly.
- The operation distance becomes shorter.
- The brightness of the LED on the remote control decreases or does not light up.

■ **Use specified lithium battery**

- Batteries can be purchased at your Lexus dealer, jeweler, or camera store.
- Replace only with the same or equivalent type recommended by a Lexus dealer.
- Dispose of used batteries according to the local laws.

■ **Checking remote control operation after replacing the battery**

Push any of the buttons on the remote control and check that the LED lights up.

CAUTION

■ **Removed battery and other parts**

Keep away from children.

These parts are small and if swallowed by a child they can cause choking.

NOTICE

■ **For normal operation after replacing the battery**

Observe the following precautions when replacing the wireless remote control's battery.

- Always replace the battery with dry hands.
  Moisture may cause the battery to rust.
- Do not touch or move any other components inside the remote control.
- Do not bend either of the battery terminals.
- Do not let foreign objects, oils, etc. enter the module.
- Do not to lose the screws or O-ring.
- Do not to bend or damage the O-ring when replacing the module cover.

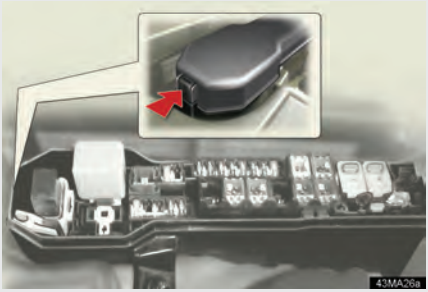
Blade fuses

If a light does not turn on or if any of the electrical components do not operate, a fuse may have blown. If this happens check and replace the fuses as necessary. If after replacing the fuse the light still does not illuminate, the bulb may need replacing.

STEP 1 Turn the key to LOCK.

STEP 2 Open the fuse box cover.

▶ Fuse box inside the engine compartment



Push the tabs in and lift the lid off.

▶ Fuse box inside the engine compartment

Pull the tab and remove the lid.

▶ Fuse box inside the driver's side kick panel

Pull the knob and remove the lid.

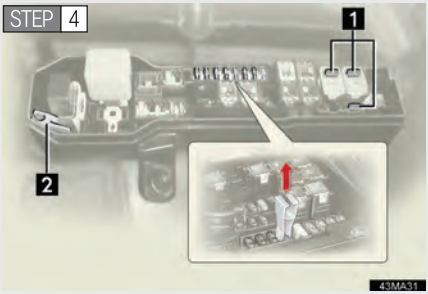
▶ Fuse box inside the passenger's side kick panel

Pull the knob and remove the lid.

▶ Fuse box inside the trunk

Pull the tab and remove the lid.

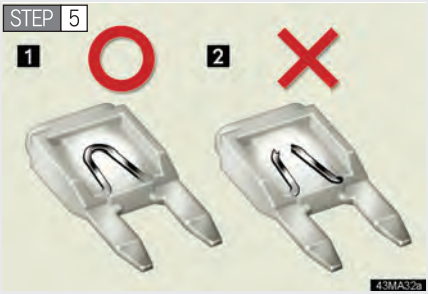
STEP 3 Inspect the suspected fuse and refer to "Fuse layout and amperage rating". (→P.259)



Remove the fuse with the pull-out tool and check if it has blown.

1 Spare fuses

2 Pull-out tool



Determining if a fuse has blown.

1 Normal fuse

If the lights do not turn on even after the fuse has been replaced, a bulb may need replacement. (→P.268)

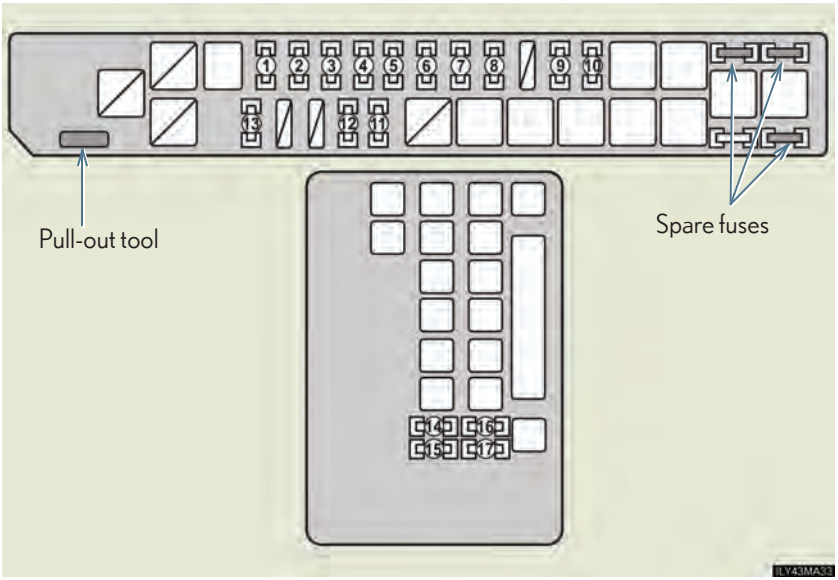
2 Blown fuse

Replace it with one of an appropriate amperage rating. The amperage rating can be found on the fuse box lid.

If the replaced fuse blows again, have the vehicle inspected by your Lexus dealer.

Fuse layout and amperage rating

Engine compartment fuse box



Fuse		Ampere	Circuit
①	IG2 MAIN	20	Multiport fuel injection system/sequential multiport fuel injection system
②	P-DOOR	25	Power windows, Power door lock system, Power rear view mirror control system, Outside rear view mirror defogger, Door courtesy lights
③	D-DOOR	25	Power windows, Power door lock system, Power rear view mirror control system, Outside rear view mirror defogger, Door courtesy lights
④	D/C CUT	15	All components in “DOME”, “MPX-B1”, “MPX-B2” and “MPX-B3” fuses
⑤	TURN-HAZ	15	Turn signal lights, Emergency flashers
⑥	ETCS	15	Multiport fuel injection system/sequential multiport fuel injection system
⑦	HORN	10	Horn, Headlight switch
⑧	RADIO NO.1	30	Audio system
⑨	ALT-S	5	Charging system
⑩	EFI	25	Multiport fuel injection system/sequential multiport fuel injection system
⑪	H-LP R LWR	15	Right-hand headlight (low beam)
⑫	H-LP L LWR	15	Left-hand headlight (low beam)
⑬	H-LP UPR	20	Headlight (high beam), Headlight switch
⑭	STARTER	7.5	Starting system
⑮	EFI NO.2	10	Multiport fuel injection system/sequential multiport fuel injection system, Emission control system
⑯	IGN	5	Multiport fuel injection system/sequential multiport fuel injection system, Anti-lock brake system, Traction control system, Vehicle stability control system, Cruise control system
⑰	INJ	10	Multiport fuel injection system/sequential multiport fuel injection system

Fuse box in the driver's side kick panel

Fuse		Ampere	Circuit
①	TI & TE	15	Tilt and telescopic steering
②	PANEL	5	Air conditioning system, Audio system, Glove box light, Trip-information display, Cigarette lighter, Electronic throttle control system
③	FR FOG	15	Fog lights, Headlight switch
④	D P/SEAT	30	Power seat system
⑤	D-IG	10	Gauges and meters, Headlight cleaner, Charging system, Seat belt pretensioner system
⑥	MPX-IG	7.5	Tilt and telescopic steering, Power door lock system, SRS, Power seat system
⑦	WIPER	30	Windshield wiper
⑧	PWR OUTLET	15	Power outlet
⑨	OBD	7.5	On-board diagnosis system
⑩	AM1	5	Power source
⑪	ABS-IG	7.5	Vehicle stability control system
⑫	SECURITY	7.5	Theft deterrent system
⑬	TAIL	7.5	Tail lights, Side marker lights, Parking lights, Headlight switch
⑭	STOP	5	Stop lights
⑮	HEATER	10	Air conditioning system

Fuse box in the front passenger's side kick panel

Fuse		Ampere	Circuit
①	IG2	7.5	SRS
②	MPX-B1	7.5	Power door lock, Steering lock, Engine immobilizer, Power seat system, Retractable hardtop
③	MPX-B3	7.5	Tilt and telescopic steering, Headlight switch, Windshield wiper and washer switch, Turn signal switch
④	DOME	7.5	Interior light, Personal lights, Vanity lights, Foot lights, engine switch light, Trunk light, Antenna, Garage door opener system, Audio system
⑤	MPX-B2	7.5	Gauges and meters, Vehicle stability control system, tire pressure warning system
⑥	H-LP LVL	10	Headlight leveling system
⑦	P-IG	10	Shift lock system, Seat heater, Trip-information display, Antenna, Inside rear view mirror, Theft deterrent system
⑧	SEAT HTR	20	Seat heater
⑨	RADIO NO.2	10	Audio system, Trip-information display, Seat belt warning light, Shift lock system
⑩	CIG	15	Cigarette lighter
⑪	WASHER	20	Windshield washer
⑫	A/C	5	Air conditioning system
⑬	P P/SEAT	30	Power seat system
⑭	TV	5	TV, Navigation system

Fuse box in the trunk

Fuse		Ampere	Circuit
①	LCE LP	7.5	License plate lights
②	ROOF RH	20	Retractable hardtop lock system
③	FUEL OPN	10	Fuel filler door opener
④	ROOF LH	20	Retractable hardtop lock system
⑤	P-TRAY	20	Quarter windows
⑥	LGG LH	20	Luggage lock system
⑦	LGG RH	20	Luggage lock system

CAUTION

When replacing a fuse

Observe the following precautions:

Failing to do so may cause damage, possibly a fire or injury.

- Never use a fuse of higher amperage rating, or use any other object in place of a fuse.
- Always use genuine Lexus fuses, or equivalent. Do not use copper wire or other objects, even as a temporary measure.
- Do not modify the fuse or the fuse box.

Cartridge fuses

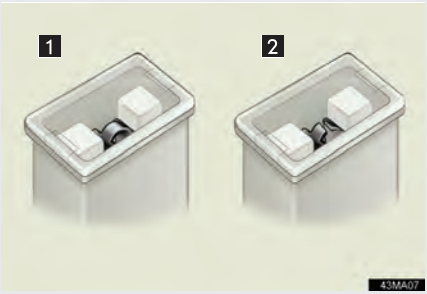
If the headlights or other electrical components do not work and the blade fuses are O.K., check the cartridge fuses.

Fuse location

▶ Fuse box inside the engine compartment

▶ Fuse box inside the engine compartment

Checking whether fuses are good or blown



1 Good

2 Blown

If replacement is necessary, replace with a genuine Lexus fuse or equivalent with same amperage rating as original.

If there is an overload in the circuits from the battery

The fuses are designed to blow before the wiring harness is damaged.

CAUTION

When replacing fuses

Always use a genuine Lexus fuse or equivalent.

Never install an ordinary wire - even as a temporary fix.

This may cause extensive damage and possibly a fire.

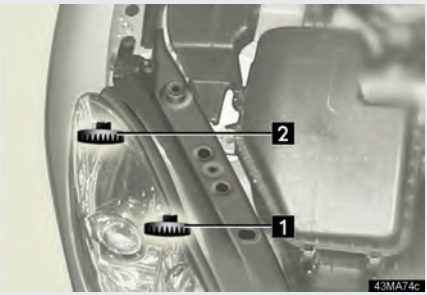
NOTICE

Before replacing fuses

Have the cause of electrical overload determined and repaired by your Lexus dealer.

Headlight aim

Adjusting bolts



1 Adjusting bolt A
2 Adjusting bolt B

Before checking the headlight aim

STEP 1 Make sure the vehicle has a full tank of gas and the body around the headlight is not damaged.

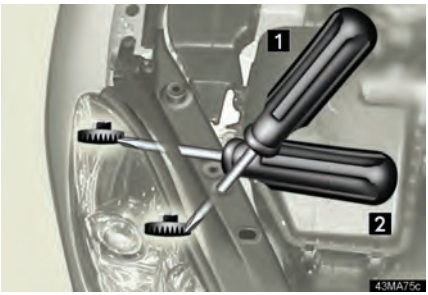
STEP 2 Park the vehicle on a level spot.

STEP 3 Sit in the driver's seat.

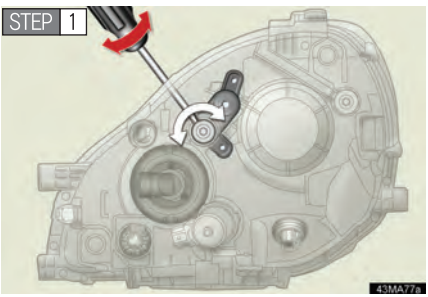
STEP 4 Bounce the vehicle several times.

STEP 5 Check the headlight aim.

Adjusting the headlight aim

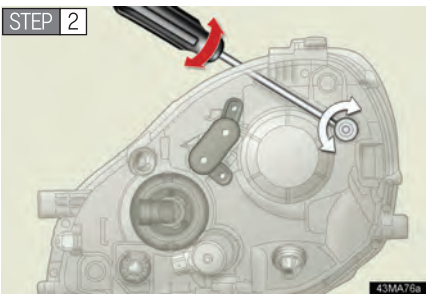


1 For adjusting bolt A
2 For adjusting bolt B



Turn bolt A in either direction using a Phillips-head screwdriver.

Remember the turning direction and the number of turns in mind.



Turn bolt B the same number of turns and in the same direction as step 1 using a Phillips-head screwdriver.

If you cannot properly aim the headlights, take the vehicle to your Lexus dealer to adjust the headlight aim.
After adjusting the headlight in the vertical direction, check if the light has been shifted from the adjusted position in the horizontal direction.

Light bulbs

You can replace following bulbs. Contact your Lexus dealer for more information about replacing other light bulbs.

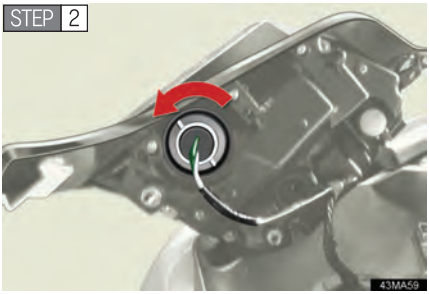
Prepare a replacement light bulb.

Check the wattage of the light bulb being replaced. (→P.336)

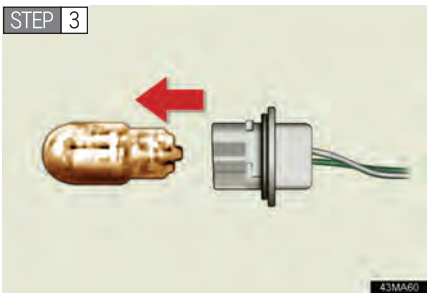
Replacing light bulbs

Rear turn signal lights

Use a wrench.

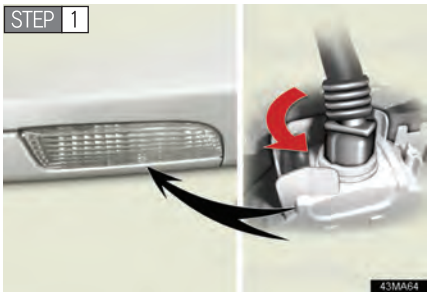


Turn counterclockwise.

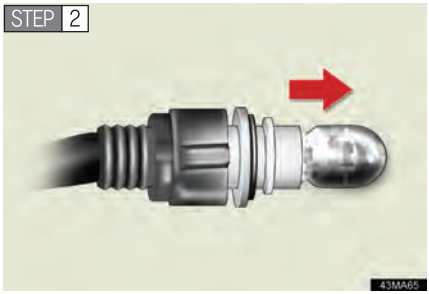


Remove the bulb.

Back-up light



Turn counterclockwise.



Remove the bulb.

Installing light bulbs

Fully install light bulbs and any parts used to secure them. Failing to do so may result in heat damage or fire, or water entering the headlight unit. This may damage the headlights or cause condensation to build up on the lens.

Condensation build up on the inside of the lens

Contact your Lexus dealer for more information in the following situations. Temporary condensation build up on the inside of the headlight lens does not indicate a malfunction.

- Large drops of water are built up on the inside of the lens.
- Water has built up inside the headlight.

LED light bulbs

The side turn signal light stop lights, high mounted stoplight and tail lights consist of a number of LEDs.
Although your vehicle is designed to conform to local laws (SAE) even if one LED in a stop light, high mounted stoplight or tail light burn out, if any of the LEDs burn out, take your vehicle to your Lexus dealer to have the light replaced.

Discharge headlights

The headlights may turn off or may not turn on for a short time. If they turn on after a short period of time, this does not indicate a malfunction.

CAUTION

Replacing light bulbs

- Turn off the headlight. Do not attempt to replace the bulb immediately after turning off the headlight.
  The bulb becomes very hot and may cause burns.
- Do not touch the glass portion of the light bulb. Hold the bulb by the plastic or metal portion.
  If the bulb is scratched or dropped it may blow out or crack.
- Do not attempt to repair or disassemble light bulbs, connectors, electric circuits or component parts.
  Doing so may result in serious injury due to electric shock.

CAUTION

Discharge headlights

- Always have your Lexus dealer change the discharged head lights.
  (Including light bulbs.)

- Do not touch the high-intensity discharge headlight's high voltage socket when the headlights are turned on. An extremely high voltage of 20,000 V will be discharged and could result in serious injury or death by electric shock.
- Do not attempt to take apart or repair the low beam headlight bulbs, connectors power supply circuits, or related components. Doing so could result in electric shock and serious injury or death. Call your Lexus dealer for headlight repair or servicing, including replacement of bulbs and bulb disposal.

To prevent damage or fire

- Make sure the bulb is fully seated and locked to prevent damage or fire.

When trouble arises

5

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Emergency flashers

Use the emergency flashers if the vehicle malfunctions or is involved in an accident.

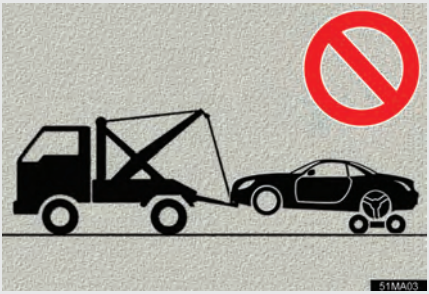
Press the switch to flash all the turn signal lights. To turn them off, press the switch once again.

NOTICE

■ **To prevent battery discharge**

Do not leave the emergency flashers on longer than necessary when the engine is not running.

If your vehicle needs to be towed



Never tow your vehicle with a sling type tow truck.
We recommend having your vehicle towed with a wheel lift type truck or flat bed truck by your Lexus dealer or a commercial tow truck service.

Use a safety chain system for all towing, and abide by the state/provincial and local laws.
If towing from the rear, the vehicle's front wheels and axles must be in good condition. (→P.277)
If they are damaged, use a towing dolly or flat bed truck.

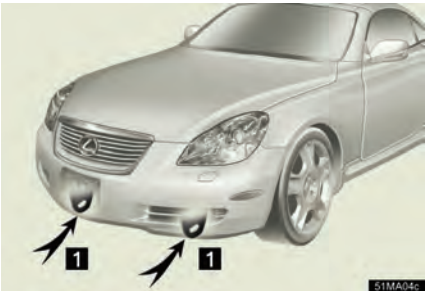
Before towing

In the following cases, there may be a problem with your transmission. Contact your Lexus dealer before towing.

- The engine is running, but the vehicle will not move.
- The vehicle makes an abnormal sound.

Emergency towing

If a tow truck is not available in an emergency, your vehicle may be temporarily towed by a cable or chain secured to the emergency towing eyelet(s). This should only attempted on hard, surfaced roads for short distance at low speeds.
A driver must be in the vehicle to steer and operate the brakes. The vehicle's wheels, drive train, axles, steering and brakes must be in good condition.



1 Towing eyelets

Emergency towing procedures

STEP 1 Release the parking brake.

STEP 2 Put the transmission in “N”.

STEP 3 The engine switch must be in “ACC” (engine off) or “ON” (engine running).

CAUTION

Caution while towing

- Use extreme caution when towing the vehicle. Avoid sudden starts or erratic driving maneuvers which would place excessive stress on the emergency towing eyelets and the cable or chain.
- If the engine is not running, the power assist for the brakes and steering will not function, making steering and braking more difficult.

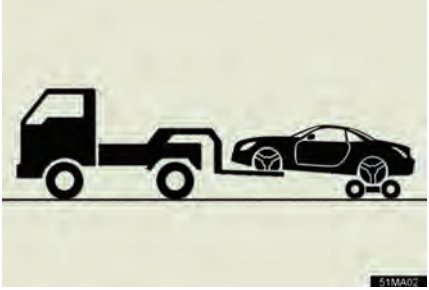
NOTICE

To prevent body damage

Do not tow with a sling type truck, either from the front or rear.

Towing with a wheel lift-type truck

▶ From front



Use a towing dolly under the rear wheels.

NOTICE

To prevent causing serious damage to the transmission

Never tow this vehicle from the front with the rear wheels on the ground.

▶ From rear

Place the key in the "ACC" position so that the steering wheel is unlocked.

NOTICE

■ **To prevent damaging the vehicle**

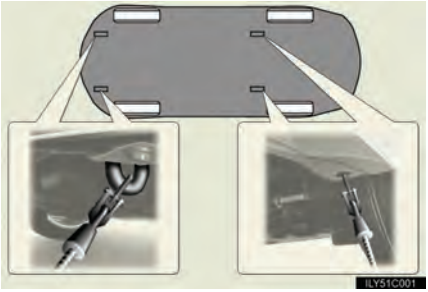
- Do not tow with the key removed or in the LOCK position. The steering lock mechanism is not strong enough to hold the front wheels straight.
- When raising the vehicle, ensure adequate ground clearance for towing at the opposite end of the raised vehicle. Without adequate clearance, the vehicle could be damaged while being towed.

■ **To prevent causing serious damage to the transmission**

Never tow a vehicle from the rear with four wheels on the ground.

This may cause serious damage to the transmission.

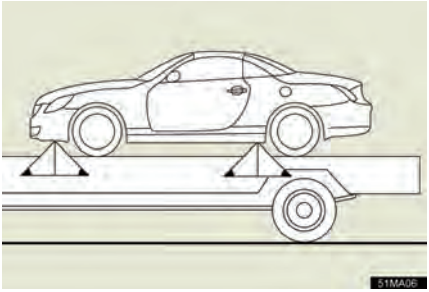
Transporting your Lexus on a flat bed truck



If your Lexus is transported by a flat bed, it should be tied down at locations shown in the illustration.

If you use chains or cables to tie down your vehicle, the angles shaded black must be at 45°.

Do not use excessive tension on the tie downs or vehicle damage may occur.



If you think something is wrong

If you notice any of the following symptoms, your vehicle probably needs adjustment or repair. Contact your Lexus dealer as soon as possible.

Visible symptoms

Look for any of the following symptoms.

- Fluid leaks under the vehicle
- Water dripping from the air conditioning after use is normal
- Flat-looking tires or uneven tire wear
- Engine coolant temperature gauge needle continually points higher than normal

Audible symptoms

Listen for any of the following symptoms.

- Change in exhaust sound
- Excessive tire squeal when cornering
- Strange noises related to suspension system
- Pinging or other noises related to engine

Problems with operation

Check for any of the following symptoms.

- Engine missing, stumbling or running rough
- Appreciable loss of power
- Vehicle pulls heavily to one side when braking
- Vehicle pulls heavily to one side when driving on a level road
- Loss of brake effectiveness, spongy feeling, pedal almost touches floor

Fuel pump shut off system

The fuel pump shut off system stops supplying fuel to the engine to minimize the risk of fuel leakage when the engine stalls or an airbag inflates.

To restart the engine after the system activates

STEP 1 Turn the engine switch to ACC or LOCK once.

STEP 2 Restart it.

NOTICE

Before starting the engine

Inspect the ground under the vehicle.

If you find that fuel has leaked on to the ground, the fuel system has been damaged and is in need of repair. Do not restart the engine.

Event data recorder

Your vehicle has computers that monitor and control certain aspects of your vehicle. These computers assist in driving and maintaining optimal vehicle performance.
Besides storing data useful for troubleshooting, there is a system to record data in a crash or a near car crash event. This is called an Event Data Recorder (EDR).

In a crash or a near car crash event

The SRS airbag sensor assembly contains the EDR. In a crash or a near car crash event, this device may record some or all of the following information:

- Engine speed
- Whether the brake pedal was applied or not
- Vehicle speed
- To what extent the accelerator pedal was depressed
- Position of the transmission selector lever
- Whether the driver and front passenger wore the seat belts or not
- Driver's seat position
- Front passenger's occupant classification
- SRS airbag deployment data
- SRS airbag system diagnostic data

The information above is intended to be used for the purpose of improving vehicle safety performance. Unlike general data recorders, the EDR does not record sound data such as conversation between passengers.

Disclosure of the data

Lexus will not disclose the data recorded in an EDR to a third party except when:

- An agreement from the vehicle's owner (or the leasing company for a leased vehicle) is obtained
- Officially requested by the police or other authorities
- Used as a defense for Lexus in a law suit
- Ordered by a court

However, if necessary Lexus will:

- Use the data for research on Lexus vehicle safety performance
- Disclose the data to a third party for research purposes without disclosing details of the vehicle owner, and only when it is deemed necessary
- Disclose summarized data cleared of vehicle identification information to a non-Lexus organization for research purposes

If the warning light turns on...

Calmly perform the following actions if any of the warning lights turn on or flash. If a light turns on or flashes, but then turns off, this does not necessarily indicate a malfunction in the system.

If the brake system warning light comes on, stop the vehicle immediately.

The following warning indicates a possible problem in the brake system. Continuing to drive the vehicle may be dangerous. Immediately stop the vehicle in a safe place and contact your Lexus dealer.

Warning lights	Warning light/Details
BRAKE (U.S.A) (Canada)	**Brake system warning light (Warning buzzer)*** • Low brake fluid • Malfunction in the brake booster system This light also comes on when the parking brake is not released. If the light turns off after the parking brake is fully released the system is operating normally.

* Brake warning buzzer:

If a malfunction that affects brake performance occurs, a buzzer sounds together with the warning light.

* Parking brake engaged warning buzzer:

A buzzer will sound if the vehicle is driven at a speed of approximately 3 mph (5 km/h) or more.

CAUTION

If both the ABS and brake system warning lights remain on

Stop your vehicle in a safe place immediately and contact your Lexus dealer. The vehicle will become extremely unstable during braking, and the ABS system may fail, which could cause an accident resulting in death or serious injury.

If the following warning lights come on, stop the vehicle immediately.

The following warnings indicate the possibility of damage to the vehicle that may lead to an accident. Immediately stop the vehicle in a safe place and contact your Lexus dealer.

Warning lights	Warning light/Details
	Charging system warning light Indicates a malfunction in the vehicle's charging system.
	Low engine oil pressure warning light Indicates an abnormal level of engine oil pressure. This warning light may turn on if the level of engine oil declines. The light should turn off after checking the oil and adding oil if necessary.

If the following warning lights come on, have the vehicle inspected immediately.

Failing to investigate the cause of the following warnings may lead to the system operating abnormally and possibly cause an accident.
Have the vehicle inspected by your Lexus dealer immediately.

Warning lights	Warning light/Details
CHECK (U.S.A) (Canada)	**Malfunction indicator lamp** Indicates a malfunction in: • The electronic engine control system; • The electronic throttle control system; or • The electronic automatic transmission control system.
	SRS warning light Indicates a malfunction in: • The SRS airbag system; • The front passenger occupant classification system; or • The seat belt pretensioner system.
AFS OFF	**Adaptive front lighting system off indicator light** Indicates a malfunction in: • The adaptive front lighting system; or • The automatic headlight leveling system if the light flashes.
ABS (U.S.A) ABS (Canada)	**ABS warning light** Indicates a malfunction in: • The ABS; or • The brake assist system. If both the ABS and brake system warning light remain on (→P.284)

Warning lights	Warning light/Details
VSC OFF	**Vehicle stability control system OFF indicator light** Indicates a malfunction in the VSC or TRAC system if the light flashes.
	Tire pressure warning light Indicates: • Low tire pressure if the light comes on • Malfunction in the tire pressure warning system if the light stays on after blinking for 1 minute
	Rear light failure warning light Indicates a malfunction in: • Tail light • Stop light

■ If the malfunction indicator lamp remains on while driving

First check the following:

● Check fuel level, if the fuel tank is empty, refuel immediately.

● Check the fuel tank cap, if the fuel tank cap is loose, tighten it securely.

The light will go off after driving regularly for some time.

If the light does not go off even after several trips, contact your Lexus dealer as soon as possible.

SRS warning light

This warning light system monitors the following:

- The airbag sensor assembly
- The front airbag sensors
- The side airbag sensors
- The driver's seat belt buckle switch
- The driver's seat position sensor
- The front passenger's seat belt buckle switch
- The front passenger occupant classification ECU
- The pressure sensor
- The belt tension sensor
- The front passenger airbag on-off indicator light
- The seat belt pretensioner assemblies
- The inflators
- The interconnecting wiring and power sources

When the tire pressure warning light comes on

Check the tire inflation pressure and adjust to the appropriate level. Pushing the tire pressure warning reset switch does not turn off the tire pressure warning light.

The tire pressure warning light may turn on due to natural causes

The tire pressure warning light may turn on due to natural causes such as natural air leaks or tire inflation pressure changes caused by temperature. In this case, adjusting the tire inflation pressure will turn off the warning light (after a few minutes).

When a tire is replaced with a spare tire (if equipped)

The compact spare tire is not equipped with the tire pressure warning valve & transmitter. If a tire goes flat, the warning light will not turn off even though the flat tire is replaced with the spare tire. Replace the spare tire with the repaired tire and adjust the proper tire inflation pressure. The warning light will turn off after a few minutes.

■ If the tire pressure warning system is inoperative

The tire pressure warning system will be disabled in the following conditions:

(When the condition becomes normal, the system will work properly.)

- If tires not equipped with tire pressure warning valve & transmitters are used.
- If the ID code on the tire pressure warning valve & transmitters is not registered in the tire pressure waning computer.
- If the tire pressure warning select switch is set to a different tire setting.
- If the tire inflation pressure is 73 psi (500 kPa, 5.1 kgf/cm^2 or bar) or higher.

The tire pressure warning system may be disabled in the following conditions:

(When the condition becomes normal, the system will work properly.)

- If electronic devices or facilities using similar radio wave frequencies are nearby.
- If a radio set at similar frequencies is in use in the vehicle.
- If there is a lot of snow or ice on the vehicle, in particular around the wheels or wheel housings.
- If non-genuine Lexus wheels are used. (Even if you use Lexus wheels, the tire pressure warning system may not work properly with some types of tires.)
- If tire chains are used.

■ If the tire pressure warning light comes on after blinking for 1 minute frequently

If the tire pressure warning light comes on after blinking for 1 minute frequently when the engine switch is turned to “ON” position, have it checked by your Lexus dealer.

CAUTION

■ If the tire pressure warning light comes on

Be sure to observe the following precautions. Failure to do so could cause loss of vehicle control and result in death or serious injury.

● Vehicles with run-flat tires:

- Decelerate to the lowest appropriate speed as soon as possible. Do not drive over 55 mph (90 km/h).
- Check and adjust the tire inflation pressure immediately.
- If the tire pressure warning light comes on even after tire inflation pressure adjustment, it is probable that you have a flat tire. Have the tire replaced by the nearest Lexus dealer.
- Avoid abrupt maneuvering and braking. If the vehicle tires deteriorate, you could lose control of the steering wheel or the brakes.

● Vehicles with standard tires:

- Stop your vehicle in a safe place as soon as possible. Adjust the tire inflation pressure immediately.
- If the tire pressure warning light comes on even after tire inflation pressure adjustment, it is probable that you have a flat tire. Check the tires. If the tire is flat, change to the spare tire and have the flat tire repaired by the nearest Lexus dealer.
- Avoid abrupt maneuvering and braking. If the vehicle tires deteriorate, you could lose control of the steering wheel or the brakes.

■ If a blowout or sudden air leakage should occur

The tire pressure warning system may not activate immediately.

CAUTION

Maintenance of the tires

Each tire, including the spare (if provided), should be checked monthly when cold and inflated to the inflation pressure recommended by the vehicle manufacturer on the vehicle placard or tire inflation pressure label (tire and load information label). (If your vehicle has tires of a different size than the size indicated on the vehicle placard or tire inflation pressure label [tire and load information label], you should determine the proper tire inflation pressure for those tires.)

As an added safety feature, your vehicle has been equipped with a tire pressure monitoring system (TPMS-tire pressure warning system) that illuminates a low tire pressure telltale (tire pressure warning light) when one or more of your tires is significantly under-inflated. Accordingly, when the low tire pressure telltale (tire pressure warning light) illuminates, you should stop and check your tires as soon as possible, and inflate them to the proper pressure. Driving on a significantly under-inflated tire causes the tire to overheat and can lead to tire failure. Under-inflation also reduces fuel efficiency and tire tread life, and may affect the vehicle's handling and stopping ability.

Please note that the TPMS (tire pressure warning system) is not a substitute for proper tire maintenance, and it is the driver's responsibility to maintain correct tire pressure, even if under-inflation has not reached the level to trigger illumination of the TPMS low tire pressure telltale (tire pressure warning light).

Your vehicle has also been equipped with a TPMS (tire pressure warning system) malfunction indicator to indicate when the system is not operating properly. The TPMS (tire pressure warning system) malfunction indicator is combined with the low tire pressure telltale (tire pressure warning light). When the system detects a malfunction, the telltale will flash for approximately one minute and then remain continuously illuminated. This sequence will continue upon subsequent vehicle start-ups as long as the malfunction exists. When the malfunction indicator is illuminated, the system may not be able to detect or signal low tire pressure as intended.

TPMS (tire pressure warning system) malfunctions may occur for a variety of reasons, including the installation of replacement or alternate tires or wheels on the vehicle that prevent the TPMS (tire pressure warning system) from functioning properly. Always check the TPMS (tire pressure warning system) malfunction telltale after replacing one or more tires or wheels on your vehicle to ensure that the replacement or alternate tires and wheels allow the TPMS (tire pressure warning system) to continue to function properly.

NOTICE

Precaution when installing a different tire

When a tire of a different specification or maker is installed, the tire pressure warning system may not operate properly.

If the following warning lights come on, have the malfunction repaired immediately.

After taking the specified steps to correct the suspected problem, check that the warning light turns off.

Warning lights	Warning light/Details	Correction procedures
	Low engine oil level warning light Low level of engine oil	Check the level of engine oil and add if necessary.
	Open door warning light (Warning buzzer)*1 Indicates that a door or trunk lid is not fully closed.	Check that both side doors and trunk lid are closed.
	Low fuel level warning light Fuel level (Less than approximately 2.9 gal. [11 L, 2.4 Imp.gal.])	Refuel the vehicle.
	Low washer fluid warning light Low level of washer fluid	Fill the tank.
 (U.S.A)	**Engine oil replacement reminder light** Indicates when to replace the engine oil.	Replace the engine oil.

Warning lights	Warning light/Details	Correction procedures
	Driver's seat belt reminder light **(Warning buzzer)***2 Warns the driver to wear his/her seat belt.	Wear the seat belt.
	Front passenger's seat belt reminder light **(Warning buzzer)***2 Warns the front passenger to wear his/her seat belt.	Wear the seat belt.

*1 Open door warning buzzer:

A buzzer will sound if the vehicle is driven at a speed of approximately 3 mph (5 km/h) or more and a door or trunk lid is not fully closed.

*2 Seat belt reminder warning buzzer:

A buzzer will sound again if the vehicle is driven at a speed of approximately 12 mph (20 km/h) or more and each seat belt is not fastened.

■ **Front passenger detection sensor and passenger's seat belt reminder**

If luggage or other load is placed on the front passenger seat, depending on its weight, the reminder light to flash and buzzer to sound.

■ **If the open retractable hardtop warning buzzer sounds**

Immediately stop your vehicle and open or close the retractable hardtop fully.

If you have a flat tire (Vehicles with run-flat tires)

Take your vehicle to the nearest Lexus dealer or authorized tire dealer as soon as possible.

Run-flat tires

You can continue driving a vehicle with run-flat tires even if any tire goes flat.

It is able to run for a maximum of 100 miles (160 km) at a speed below 55 mph (90 km/h) after the tire pressure warning light comes on. (→P.287)

In some condition (such as at high temperatures)

You can not continue driving for up to 100 miles (160 km).

Spare tire

A spare tire is not provided on the vehicle with run-flat tires.

If you cannot distinguish between the standard tires and run-flat tires

Consult Lexus dealer.

For the detailed information on run-flat tires

See the tire warranty book for details.

NOTICE

■ **When replacing the tires**

When removing or fitting the wheels, tires or the tire pressure warning valve and transmitter, contact your Lexus dealer as the tire pressure warning valve and transmitter may be damaged if not handled correctly.

■ **To avoid damaging the tire pressure warning valve & transmitters**

Do not use liquid sealants on flat tires.

■ **The use of the run-flat tires**

Do not use the run-flat tires on any other vehicle.

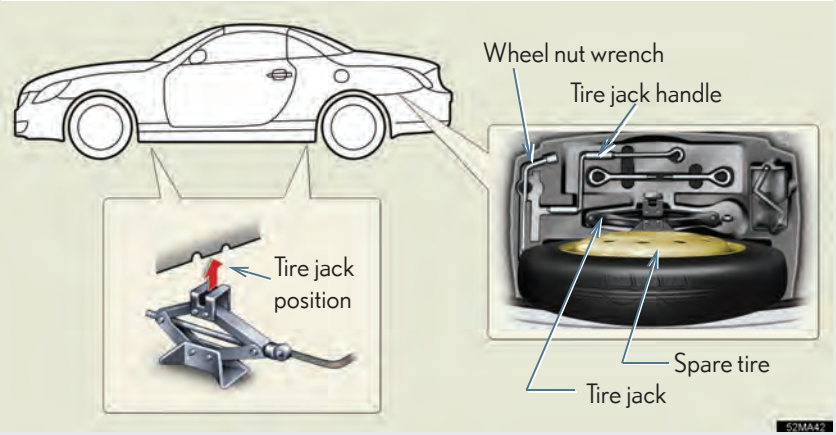
If you have a flat tire (Vehicles with standard tires)

Remove the flat tire and replace it with the spare provided.

Before jacking the vehicle

- Stop the vehicle on a hard, flat, level surface.
- Set the parking brake.
- Set the transmission selector lever in P.
- Stop the engine.
- Turn on the emergency flashers.

Location of spare tire jack and jacking position



Compact spare tire

The compact tire saves space in your luggage compartment, and its lighter weight helps to enhance fuel economy and permits easier installation in case of a flat tire.

The compact spare tire is designed for temporary emergency use only.

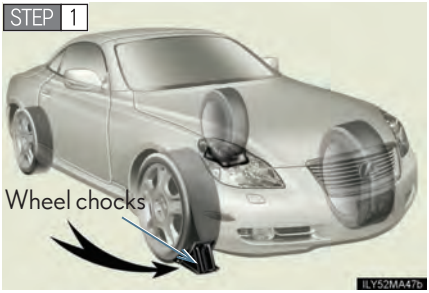
Tread life

The compact spare tire can be used many times, if necessary. It has tread life of up to 3000 miles (4800 km) depending on road conditions and your driving habits. When treadwear indicators appear on the tire, replace the tire. (→P.236)

When using the compact spare tire

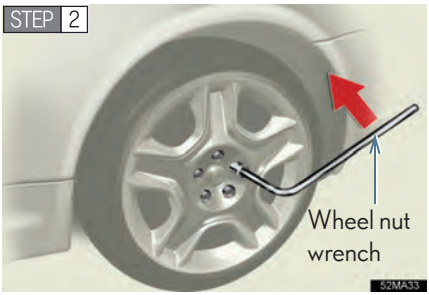
As the spare tire is not equipped with the tire pressure warning valve & transmitter, low inflation pressure of the spare tire will not be warned. Also, if you replace the compact spare tire after the tire pressure warning light comes on, the light remains on.

Replacing a flat tire

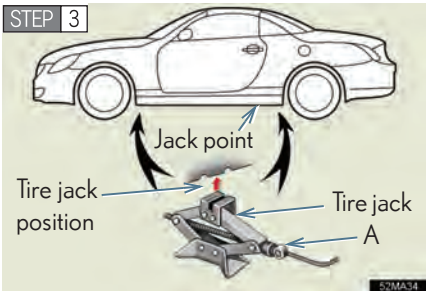


Chock the tires.

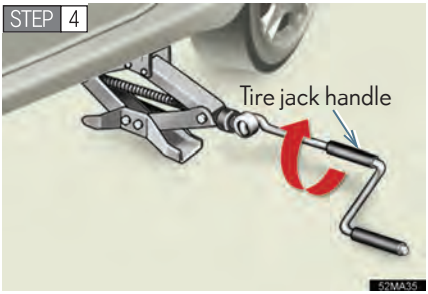
Flat tire		Wheel chock positions
Front tire	Left-hand side	Behind the rear right-hand side tire
	Right-hand side	Behind the rear left-hand side tire
Rear tire	Left-hand side	In front of the front right-hand side tire
	Right-hand side	In front of the front left-hand side tire



Slightly loosen the nuts (one turn).



Turn the tire jack joint "A" by hand until the jack is in contact with the jack point.



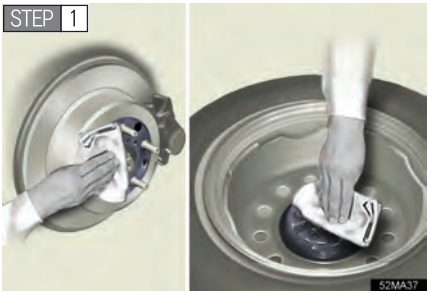
Raise the vehicle until the tire is slightly raised off the ground.

Remove all the nuts and the tire.

When resting the tire on the ground, place the tire so that the wheel design faces up to avoid scratching the wheel surface.

Installing spare tire

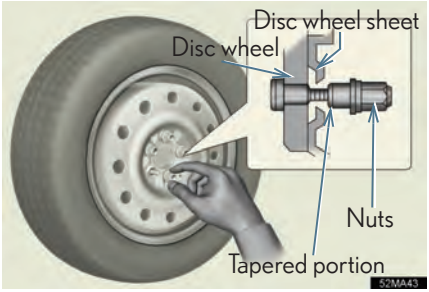
STEP 1



Remove any dirt or foreign matter from the wheel contact surface.

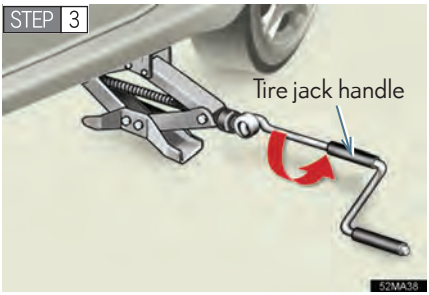
If foreign matter is on the wheel contact surface, the nuts may loosen while the vehicle is in motion, and the tire may come off the vehicle.

STEP 2 Install the compact spare tire and loosely tighten each nut by hand to approximately the same amount.



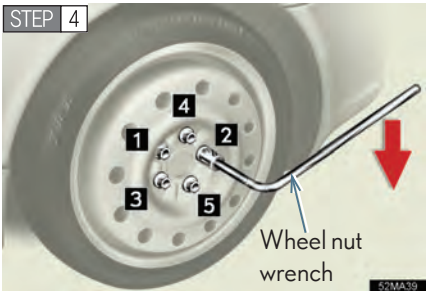
Tighten the nuts until the tapered portion comes into loose contact with the disc wheel sheet.

STEP 3



Lower the vehicle.

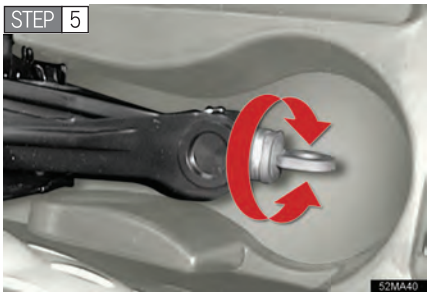
STEP 4



Firmly tighten each nut two or three times in the order shown in the illustration.

Tightening torque:
76 ft·lbf (103 N·m, 10.5 kgf·m)

STEP 5



Stow the flat tire, tire jack and all tools.

Check the following when stowing the tire jack and tire.

- The tire jack should be firmly secured in the carrier.
- The tire should be loaded in the trunk with the retractable hardtop closed.

■ If you have a flat rear tire on a road covered with snow or ice, or while using tire chains

Install the compact spare tire on the front of the vehicle. Perform the following steps in order and fit tire chains to the rear tires.

STEP 1 Replace a front tire with the compact spare tire.

STEP 2 Replace the flat rear tire with the tire removed from the front of the vehicle.

STEP 3 Fit tire chains to the rear tires.

■ After completing the tire change

The tire pressure warning system must be reset. (→P. 237)

CAUTION

Using the tire jack

Improper use of the tire jack may lead to death or injuries due to the vehicle suddenly falling off the jack.
Observe the following precautions to prevent accidents.

- Do not use the tire jack for any purpose other than replacing tires or installing and removing tire chains.
- Only use the tire jack that comes with this vehicle for replacing a flat tire.Do not use this tire jack on other vehicles, and do not use other tire jacks for replacing tires on this vehicle.
- Always check that the tire jack is securely set to the jack point.
- Do not raise the vehicle while someone is in it.
- When raising the vehicle, do not put an object on or under the jack.
- Do not raise the vehicle to a height greater than that required to replace the tire.
- Do not put any part of your body under the vehicle supported by a jack.
- Do not start or run the engine while your vehicle is supported by the jack.
- Use a jack stand if it is necessary to get under the vehicle.
- Take particular care when lowering the vehicle to ensure that no one working on or near the vehicle may be injured.

Replacing a flat tire

Observe the following precautions to reduce the risk of death or serious injury.

- Never use oil or grease on the wheel bolts or wheel nuts.
  The oil or grease can cause the wheel nuts to loosen, causing a serious accident. Remove any oil or grease on the wheel bolts or wheel nuts.
- Have the wheel nuts tightened with a torque wrench to 76 ft•lbf (103 N•m, 10.5 kgf•m) as soon as possible after changing wheels.
  Failure to follow these pre-cautions could cause the wheel nuts to loosen and the wheels may fall off, which could lead to an accident causing death or serious injury.

CAUTION

■ Speed limit when using the compact spare tire

Do not drive at more than 50 mph (80 km/h) when the compact spare tire is installed on the vehicle.
The compact spare tire is not designed for driving at high speeds.
Failing to observe this precaution may lead to an accident causing death or serious injury.

■ When using the compact spare tire

- Avoid sudden acceleration, sudden deceleration and sharp turns.
- Replace the compact spare tire with a standard tire as soon as possible.
- Do not use more than one compact spare tire at the same time.
- Do not use the compact spare tire on any other vehicle.

■ When the spare tire is attached

The vehicle speed may not be correctly detected, and the following systems may not operate correctly:

- ABS & Brake assist
- VSC
- TRAC

NOTICE

■ Do not drive the vehicle with a flat tire

Do not continue driving with a flat tire.
Driving even a short distance can damage a tire and wheel beyond repair.

■ When driving over bumps with the compact spare tire

The vehicle becomes lower when driving with the compact spare tire compared to when driving with standard tires.
Be careful when driving over uneven road surfaces.

NOTICE

■ **Driving with tire chains and the compact spare tire**

Do not fit tire chains to the compact spare tire.
Tire chains may damage the vehicle body and adversely affect driving performance.

■ **Be sure to check the pressure for the compact spare tire**

The pressure for the compact spare tire must be 60 psi (420 kPa, 4.3 kgf/cm^2, 4.2 bar).

■ **When the tires must be repaired or replaced**

- Take the vehicle to the nearest Lexus dealer or authorized tire dealer. The tire pressure warning valve & transmitters will be affected by tire installation or removal.
- Replace the grommets for the tire pressure warning valve & transmitters as well.

■ **To avoid damaging the tire pressure warning valve & transmitters**

- Do not use liquid sealants on flat tires.

If the engine will not start

If the engine will not start, even though correct starting procedures are being followed (→P.107), consider each of the following points.
Contact your Lexus dealer if the problem cannot be repaired, or if repair procedures are unknown.

The engine will not start even when the starter motor operates normally

One of the following may be the cause of the problem.

- There may not be sufficient fuel in the vehicle's tank.
  Add fuel to the vehicle.
- The engine may be flooded.
  Try to restart the engine once more following correct starting procedures (→P.107). Hold the key in the START position for a slightly longer period (up to a maximum of 15 seconds).

The starter motor turns over slowly, the interior lights and headlights are dim, or the horn does not sound or sounds at a low volume.

One of the following may be the cause of the problem.

- The battery may be discharged. (→P.309)
- The battery terminal connections may be loose or corroded.

The starter motor does not turn over, the interior lights and headlights do not turn on, or the horn does not sound.

One of the following may be the cause of the problem.

- One or both of the battery terminals may be disconnected.
- The battery may be discharged. (→P.309)
- There may be a malfunction in the engine immobilizer system. (→P.59)

If the transmission selector lever cannot be shifted from P

If the transmission selector lever cannot be shifted with your foot on the brake, there may be a problem with the shift lock system (a system to prevent accidental operation of the selector lever). Have the vehicle inspected by your Lexus dealer immediately.

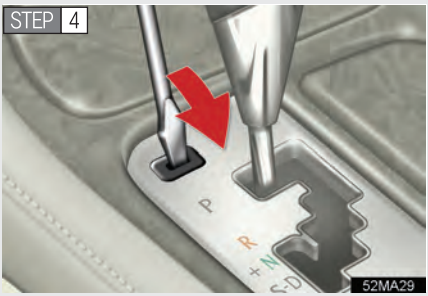
The following steps may be used as an emergency measure to ensure the selector lever can be shifted.

STEP 1 Set the parking brake.

STEP 2 Turn the key to ACC.

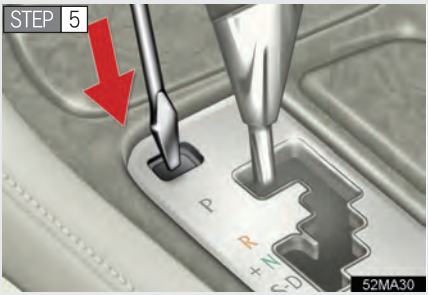
STEP 3 Depress the brake pedal.

STEP 4



Pry the cover up with a flat-bladed screwdriver or equivalent.

STEP 5



Insert your finger, the screwdriver or equivalent into the hole to push down the shift lock override button. You can shift the selector lever while pushing the button.

If you lose your keys

New genuine Lexus keys can be made by your Lexus dealer using master key and the key number stamped on your key number plate.

If all the master keys are lost, the on-board computer must also be replaced.

■ If a key with a built-in remote control is lost

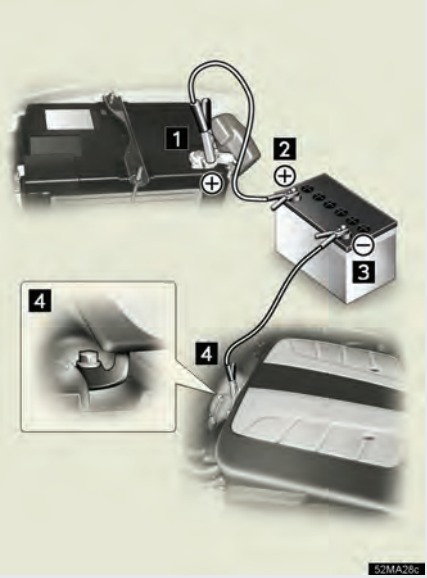
The vehicle settings can be changed so that the wireless remote control function does not operate.
Contact your Lexus dealer for more information.

If the vehicle has a discharged battery

The following procedures may be used to start the engine in the event the vehicle's battery is discharged.
You can call your Lexus dealer or qualified repair shop.

If you have a set of jumper (or booster) cables and a second vehicle with a 12-volt battery, you can jump start your Lexus following the steps below.

STEP 1 Connecting the jumper cables.



1 Positive (+) battery terminal on your vehicle.
2 Positive (+) battery terminal on the second vehicle.
3 Negative (-) battery terminal on the second vehicle.
4 Connect the jumper cables to ground on your vehicle as shown in the illustration.

STEP 2 Start the engine of the second vehicle.
Increase the engine speed slightly and maintain at that level for approximately five minutes.

STEP 3 Maintain the engine speed on the second vehicle and start the vehicle's engine.

STEP 4 Once the vehicle's engine has started, remove the exact reverse jumper cables in the exact reverse order in which they were connected.

Once the engine starts, have the vehicle checked at your Lexus dealer as soon as possible.

Starting the engine when the battery is discharged

The engine cannot be started by push-starting.

Avoiding a discharged battery

- Turn off the headlights and the audio system while the engine is turned off.
- Turn off any unnecessary electrical components when the vehicle runs at a low speed for an extended period, such as in heavy traffic, etc.

When disconnecting the battery

Deactivate the theft deterrent system. If the system is not deactivated, it could sound the alarm and lock the doors.

CAUTION

Avoiding battery fires or explosions

Observe the following precautions to prevent accidentally igniting the flammable gas that may be emitted from the battery.

- Make sure the jumper cable is connected to the correct terminal and that it is not unintentionally in contact with any part other than the intended terminal.
- Do not allow the booster cables to come into contact with the + and - terminals.
- Do not generate a flame near the battery by using a match, cigarette lighter, or smoking.

CAUTION

Battery precautions

The battery contains poisonous and corrosive electrolyte, while related parts contain lead and lead compounds.
Observe the following precautions when handling the battery.

- When working with the battery, always wear safety glasses and take care not to allow any battery fluids (acid) to come into contact with skin, clothing or the vehicle body.
- Do not lean over the battery.
- In the event that battery fluid comes into contact with the skin or eyes, immediately wash the affected area with water and seek medical attention. Place a wet sponge or cloth over the affected area until medical attention can be received.
- Always wash your hands after handling battery-related parts.
- Do not allow children near the battery.

NOTICE

When handling jumper cables

Be careful that the jumper cables do not become tangled in the cooling fan or any of the belts when connecting or disconnecting them.

If your vehicle overheats

If your engine overheats:

STEP 1 Stop the vehicle in a safe place and turn off the automatic air conditioning control.

STEP 2 Check to see if steam is coming out from under the hood.

If you see steam:
Stop the engine. Carefully lift the hood after the steam subsides and then restart the engine.

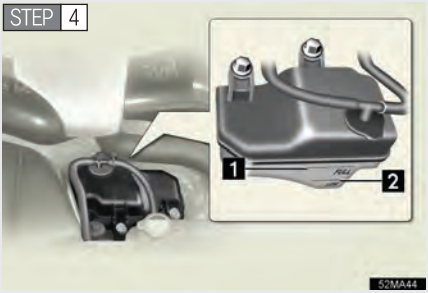
If you do not see steam:
Leave the engine running and carefully lift the hood.

STEP 3 Check to see if the cooling fan is operating.

If the fan is operating:
Wait until the temperature of the engine (shown in the instrument cluster) begins to fall and then stop the engine.

If the fan is not operating:
Stop the engine and call your local Lexus dealer.

STEP 4

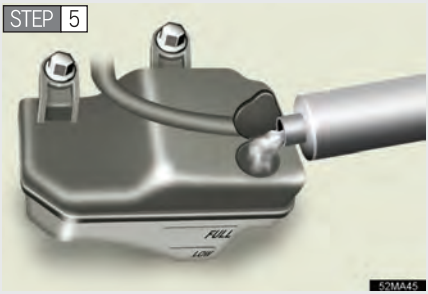


After the engine has cooled down sufficiently, check the level of engine coolant and inspect the radiator core (radiator) for any leaks.

1 Upper line

2 Lower line

STEP 5



Add engine coolant if required.

Water can be used as an emergency measure if engine coolant is unavailable.(→P.226)

Overheating

If you observe the following, your vehicle may be overheating.

- The engine coolant temperature gauge enters the red zone or a loss of power is experienced.
- Steam is coming out from under the hood.

CAUTION

To prevent an accident or injury when inspecting under the hood of your vehicle

- If steam is seen coming from under the hood, do not open the hood until the steam has subsided. The engine compartment may be very hot, causing serious injury such as burns.
- Keep hands and clothing away from the fan and other belts while the engine is running.
- Do not loosen the radiator cap while the engine and radiator are hot.
  Serious injury could result from scalding hot fluid and steam blown out under pressure.

NOTICE

When adding engine coolant

Wait until the engine has cooled down before adding engine coolant. When adding coolant, do so slowly. Adding cool coolant to a hot engine too quickly can cause damage to the engine.

If the vehicle becomes stuck

Carry out the following procedures if the tires spin or the vehicle becomes stuck in mud, dirt, or snow.

STEP 1 Stop the engine. Set the parking brake and shift the selector lever in P.

STEP 2 Remove the mud, snow, or sand from around the stuck tire.

STEP 3 Place wood, stones or some other material to help provide traction under the tires.

STEP 4 Restart the engine.

STEP 5 Shift the shift lever to the "D" or "R" position and carefully apply the accelerator to free the vehicle.
Turn off TRAC/VSC if these functions are hampering your attempts to free the vehicle. (→P.135)

CAUTION

When attempting to free a stuck vehicle

If you choose to rock the vehicle back and forth to free it, make sure the surrounding area is clear, to avoid striking other vehicles, objects or persons. The vehicle may also lunge forward or lunge back suddenly as it becomes free, use extreme caution.

When shifting the selector lever

Be careful not to shift the selector lever with the accelerator pedal depressed.
This may lead to unexpected rapid acceleration of the vehicle that may cause an accident and result in death or serious injury.

NOTICE

To avoid damaging the transmission and other components

- Do not operate the selector lever while depressing the accelerator pedal.
- Avoid spinning the wheels and do not rev the engine.
- If the vehicle remains stuck after trying these procedures the vehicle may require towing to be freed.

If the retractable hardtop does not close

If the retractable hardtop does not close, check the conditions for the retractable hardtop operating. (→P.51)

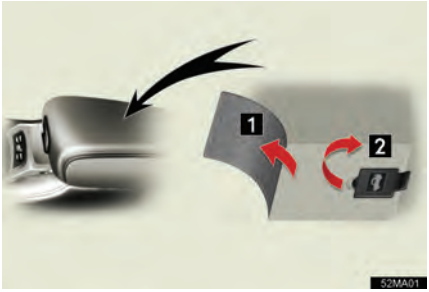
Although the conditions are met, if the retractable hardtop does not close, close it manually following the procedure below.

Be sure to have the system checked by your Lexus dealer as soon as possible.

STEP 1 Unlocking the trunk lid

Push the trunk lid opener switch.

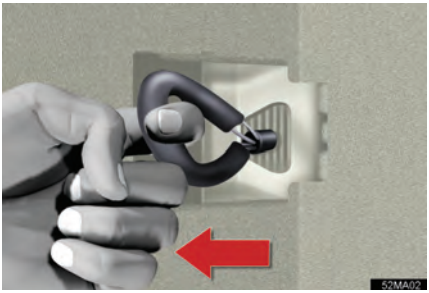
If the opener does not work, follow these procedures.



1 Mat

2 Cover

1. Lift up the mat in the lower box contained in the console box.
2. Open the cover.

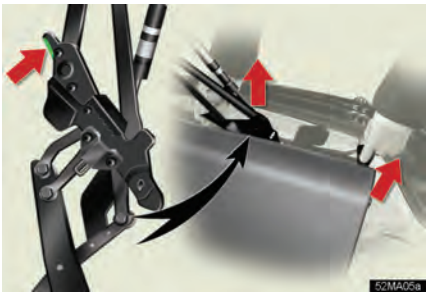


3. Pull the loop of wire.

Opening the trunk lid fully

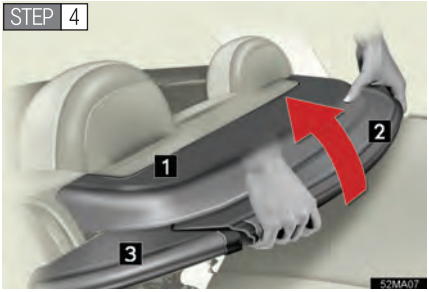
Raising the luggage links

1. Pull out the green loops of wire from openings of the cover on both sides of the trunk.



2. While pulling out the loop of wire with one hand, put your other hand over the front side of the luggage link (where green painting is applied).

3. Raise it gradually.



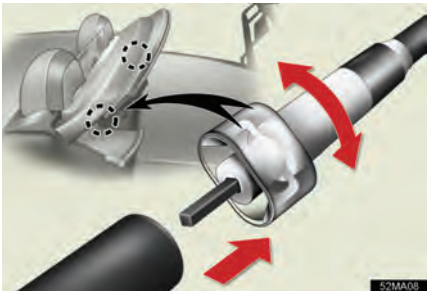
Raising the package tray

1 Main board

2 Slide board

3 Side board

1. Put your hands under the slide board and raise the package tray gradually at 30° to 45°.



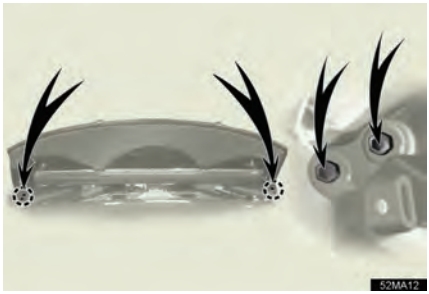
2. Disconnect the joints of the cables at both ends under the package tray manually.

3. Raise the package tray gradually until it stops.

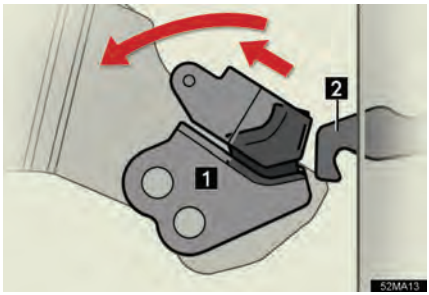
4. Push down the slide board as low as the main board.

Closing the roof panel partially

1. Take out the Allen wrench located in the trunk.



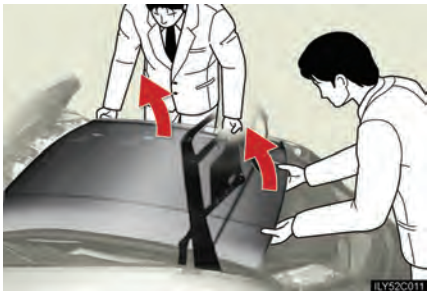
2. Remove the 2 bolts on each side using the longer side of the Allen wrench.



1 Roof stopper

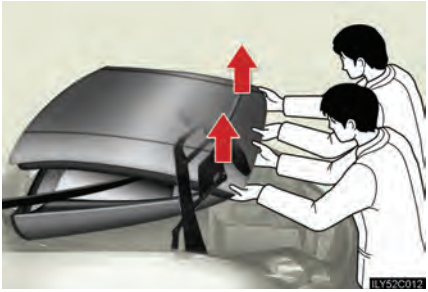
2 Hook

3. Slide the roof stoppers on each side and take them off from the hooks.



4. Insert your hands at the lower part of the roof and lift the roof upward gradually.

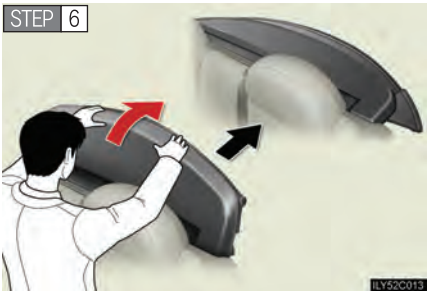
   At this time, the person on the side of the vehicle should lift the front of the roof a little and then 2 people should lift it gradually.



5. After the roof is lifted up to a certain point, 2 people lift it on the rear side of the vehicle in unison.

6. Stop lifting the roof in this position.

STEP 6

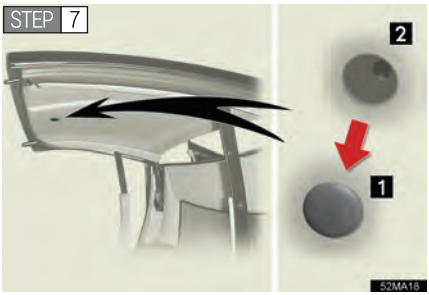


Folding down the package tray

With the slide board as low as the main board, fold down the main board rearward.

Place your hands as shown in the illustration.

STEP 7

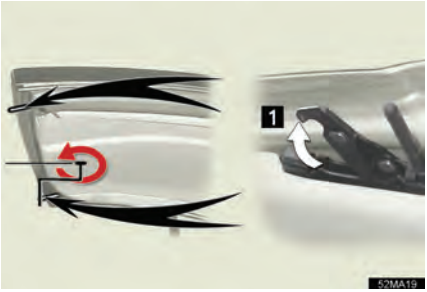


Closing the roof panel fully

1 Service hole cover

2 Drive gear shaft

1. Remove the service hole cover from the roof head lining using a flathead screwdriver or equivalent.

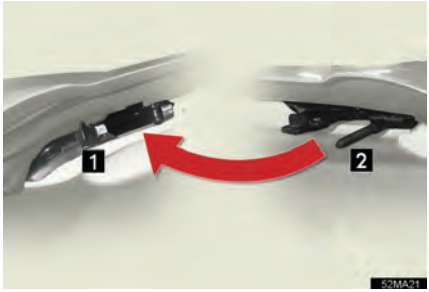


1 Hook

2. Insert the wrench tip into the drive gear shaft and turn the wrench about one turn counterclockwise as viewed from the bottom.

   Make sure the hook protrudes from the roof panel.

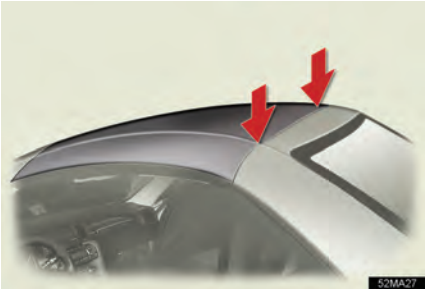
3. Gradually close the roof panel, then the rear window.



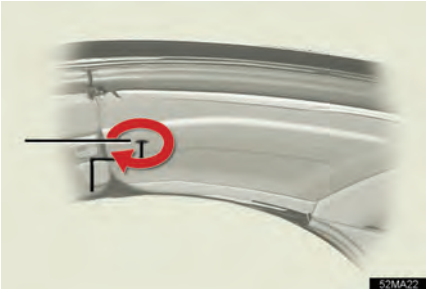
1 Guide hole

2 Guide pin

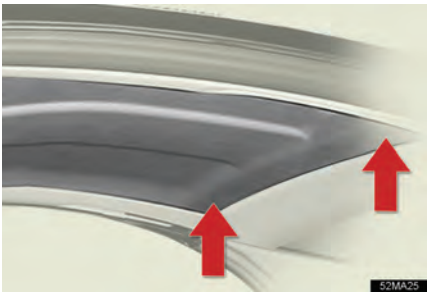
4. Make sure the guide pins at the top of the roof panel are in the guide holes on the windshield.



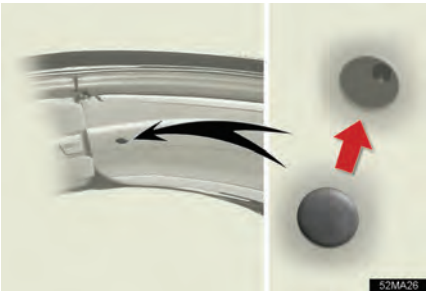
5. Push down in the vicinity of the line separating the roof panel and rear window.



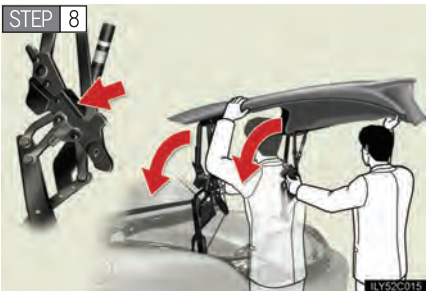
6. Insert the wrench tip into the drive gear shaft and turn the wrench about one turn clockwise as viewed from the bottom.



7. From the inside, push in the vicinity of the line separating the roof panel and rear window to make sure the top is locked securely.



8. Install the service hole cover as installed previously.



Closing the front of trunk lid

Put your hand over the rear side the luggage link and apply downward pressure gradually.

After lowering it to its limit, push once to secure.

Closing the rear of trunk lid

Close the trunk lid as you do usually.

Some procedures require 2 people

Some procedures require 2 skilled people having strength. If they are not confident in strength and if there is no other person, besides you, to perform the work, have your vehicle inspected at Lexus dealer as soon as possible. In other procedures, you may be injured by performing them with bare hands. In that case, wear gloves or use a piece of rag for protection.

CAUTION

■ When manually closing the retractable hardtop

- Stop the vehicle in a safe, level place.
- Make sure the parking brake is applied, and the selector lever is in the "P" position.
- Do not perform the procedure if anyone is in the vehicle.
- Do not perform the procedure in strong winds.
- Leave the engine switch off with the hardtop partially closed.

■ When raising the luggage links

- Wear gloves or apply a piece of rag where your hands are put.
- Take care not to pinch your hand in the luggage link.
- Make sure the luggage links have been fully raised and extended before release.
- Take care when lifting the trunk lid, the rear of the lid will reach head height.

■ When raising the package tray

Take care not to injure your hands when disconnecting the joints of the cables.

■ When closing the roof panel partially

Do not stop lifting until the rear window is perpendicular to the ground.

■ When closing the roof panel fully

Take care not to catch your hands.

■ When closing the front of trunk lid

Wear gloves or apply a piece of rag where your hands are put.

NOTICE

■ **When manually closing the retractable hardtop**

Lower the radio antenna during the procedure.

■ **When raising the luggage links**

Do not apply force to parts other than those marked with green paint.

■ **When raising the package tray**

Do not apply force directly to the side board. It will move in accordance with movement of the main board.

■ **When closing the roof panel partially**

- Do not use the shorter side of the Allen wrench.
- Do not stop lifting the roof until the rear window is perpendicular to the ground.
- Stop lifting once the roof panel when the rear window is perpendicular to the ground. Further closing of the roof may cause the damage to the package tray.

■ **When closing the roof panel fully**

- The wrench will stop after one rotation. Do not attempt to turn the wrench further.

■ **If the retractable hardtop mechanism is malfunctioning**

- Drive your vehicle at low speeds. High speed driving could cause the trunk lid to open.

Closing the quarter windows

The quarter windows can be closed electrically using the following operation.

STEP 1 Turn the engine switch on.

STEP 2 Turn the trunk lid opener main switch from the operative position to the inoperative position (in the cancelled position). (→P.25)

STEP 3 Push the "OPEN/CLOSE" switch on the "OPEN" side twice slowly within 10 seconds after step 2.

STEP 4 Hold down the same switch on the "CLOSE" side once within 10 seconds after step 3.

CAUTION

To avoid serious injury when closing the quarter windows

Always make sure nobody places any part of their body on the windows, and that it is safe to close the windows before doing so.

If anything should get caught in the windows, release the switch immediately to cease operation.

Vehicle specifications 6

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Maintenance data (fuel, oil level, etc.)

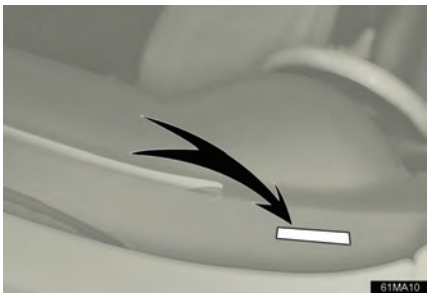
Dimensions and weight

Overall length	178.5 in. (4535 mm)
Overall width	71.9 in. (1825 mm)
Overall height	53.1 in. (1350 mm)*
Wheelbase	103.1 in. (2620 mm)
Tread - Front - Rear	61.0 in. (1550 mm) 60.4 in. (1535 mm)
Vehicle capacity weight (occupants + luggage)	645 lb. (295 kg)

*Unladen vehicle

Vehicle identification

The vehicle identification number (VIN) is the legal identifier for your vehicle. This is the primary identification number for your Lexus. It is used in registering the ownership of your vehicle.



This number is stamped on the top left of the instrument panel.

This number is also on the Certification Label.

The engine number is stamped on the engine block.

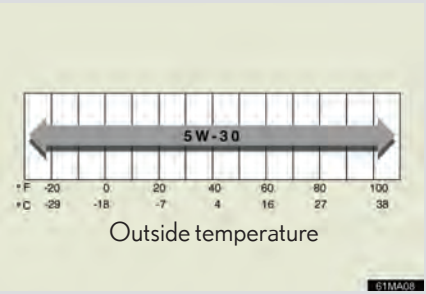
Engine

Model	3UZ-FE
Type	8-cylinder V type, 4-cycle, gasoline
Bore and stroke	3.58 × 3.25 in. (91.0 × 82.5 mm)
Displacement	261.9 cu.in. (4293 cm^3)
Valve clearance (engine cold) Intake exhaust	0.006 - 0.010 in. (0.15 - 0.25 mm) 0.010 - 0.014 in. (0.25 - 0.35 mm)
Drive belt tension	Automatic adjustment

Fuel

Fuel type	Premium unleaded gasoline only
Octane rating	91 (Research octane number 96) or higher
Fuel tank capacity	19.8 gal. (75 L, 16.5 Imp.gal)

Lubrication system

Oil capacity drain and refill (reference) with filter without filter	 5.5 qt. (5.2 L, 4.6 Imp.qt.) 4.9 qt. (4.6 L, 4.0 Imp.qt.)
Oil grade	ILSAC multigrade engine oil
Recommended oil viscosity	Use Lexus approved "Toyota Genuine Motor Oil" or equivalent to satisfy the grade and viscosity shown below. 

Oil viscosity

- The 5W portion of the oil viscosity rating indicates the characteristic of the oil which allows cold startability. Oils with a lower value before the W allow for easier starting of the engine in cold weather.
- The 30 in 5W-30 indicates the oil viscosity when the oil is at its operating temperature. An oil with a higher viscosity may be better suited if the vehicle is operated at high speeds, or under extreme load condition.

Cooling system

Capacity	10.5 qt. (9.9 L, 8.7 Imp.qt.)
Coolant type	Use either of the following: • "Toyota Super Long Life Coolant" • Similar high quality ethylene glycol based non-silicate, non-amine, non-nitrite, and non-borate coolant with long-life hybrid organic acid technology Do not use plain water alone.

Ignition system

Spark plug		
-Make	DENSO	SK20R11
	NGK	IFR6A11
- Gap		0.039 - 0.043 in. (1.0 - 1.1 mm)

NOTICE

Iridium-tipped spark plugs

Use only iridium-tipped spark plugs. Do not adjust gap when tuning engine.

Electrical system

Battery	
- Open voltage at 68°F (20°C):	12.6–12.8 V Fully charged 12.2–12.4 V Half charged 11.8–12.0 V Discharged [Voltage checked 20 minutes after the key is removed with all the lights turned off]
- Charging rates	5A max.

Differential

Oil capacity	1.42 qt. (1.35 L, 1.19 Imp.qt.)
Oil type and viscosity	Toyota Genuine Differential Gear Oil LT 75W-85 GL-5 or equivalent

"Toyota Genuine Differential Gear Oil" is filled in your Lexus vehicle at factory fill. Use Lexus approved "Toyota Genuine Differential Gear Oil" or an equivalent of matching quality to satisfy the above specification. Please contact your Lexus dealer for further details.

Automatic Transmission

Fluid capacity *	9.1 qt. (8.6 L, 7.6 Imp.qt.)
Fluid type	Toyota Genuine ATF WS

* The fluid capacity is provided as a reference. If replacement is necessary, contact your Lexus dealer.

Brakes

Pedal clearance *1	3.9 in. (100 mm) Min.
Pedal free play	0.008 - 0.08 in. (0.2 - 2 mm)
Brake pad wear limit	0.04 in. (1.0 mm)
Parking brake lining wear limit	0.04 in. (1.0 mm)
Parking brake adjustment *2	7 - 9 clicks
Fluid type	SAE J1703 or FMVSS No. 116 DOT 3

*1 Minimum pedal clearance when depressed with the force of 44 lbf. (196 N, 20kgf) with the engine running

*2 Parking brake adjustment when depressed with the force of 66.1 lbf. (294N, 30 kgf)

Steering

Free play	Less than 1.2 in. (30 mm)
Power steering fluid	Automatic transmission fluid DEXRON®II or III

Tires and wheels (Type A)

Tire size	245/40R18 93Y
Tire inflation pressure (Recommended cold tire inflation pressure)	Driving in normal conditions Front 33 psi (230 kPa, 2.3 kgf/cm^2 or bar) Rear 33 psi (230 kPa, 2.3 kgf/cm^2 or bar) Driving at high speeds above 112 mph (180 km/h) (in countries where such speeds are permitted by law) Add 12 psi (80 kPa, 0.8 kgf/cm^2) to the front tires and rear tires. Never exceed the maximum cold tire inflation pressure molded on the tire sidewall.
Wheel size	18 × 8 JJ
Wheel nut torque	76 ft•lbf. (103 N•m, 10.5 kgf•m)

Tires and wheels (Type B)

Tire size	P245/40R18 93V
Tire inflation pressure (Recommended cold tire inflation pressure)	Driving in normal conditions Front 33 psi (230 kPa, 2.3 kgf/cm^2 or bar) Rear 33 psi (230 kPa, 2.3 kgf/cm^2 or bar) Driving at high speeds above 112 mph (180 km/h) (in countries where such speeds are permitted by law) Add 12 psi (80 kPa, 0.8 kgf/cm^2) to the front tires and rear tires. Never exceed the maximum cold tire inflation pressure molded on the tire sidewall.
Wheel size	18 × 8 JJ
Wheel nut torque	76 ft•lbf. (103 N•m, 10.5 kgf•m)

Tires and wheels (Type C)

Tire size	245/40ZR18
Tire inflation pressure (Recommended cold tire inflation pressure)	Driving in normal conditions Front 33 psi (230 kPa, 2.3 kgf/cm^2 or bar) Rear 33 psi (230 kPa, 2.3 kgf/cm^2 or bar) Driving at high speeds above 112 mph (180 km/h) (in countries where such speeds are permitted by law) Add 12 psi (80 kPa, 0.8 kgf/cm^2) to the front tires and rear tires. Never exceed the maximum cold tire inflation pressure molded on the tire sidewall.
Wheel size	18 × 8 JJ
Wheel nut torque	76 ft•lbf. (103 N•m, 10.5 kgf•m)

Spare

Tire size	T145/70R17 106M
Tire inflation pressure	60 psi (420 kPa, 4.3 kgf/cm^2, 4.2 bar)
Wheel size	17 × 4 T
Wheel nut torque	76 ft•lbf. (103 N•m, 10.5 kgf•m)

Light bulbs

	Light Bulbs	Bulb No.	W	Type
Exterior	Headlight (Low beam)	D4S	35	B
	Front turn signal light	3457NA	30	G
	Headlight (High beam)	9005	60	A
	Parking light	168	5	C
	Fog lights	H3	55	F
	Front side marker light	168	5	C
	Trunk light	194	3.8	C
	Rear side marker light	168	5	C
	Rear turn signal light	—	21	G
	Back-up light	7440	21	C
Interior	Front personal / Interior lights	—	8	E
	Vanity lights	—	1.5	D
	Door courtesy lights	194	3.8	C
	Foot lights	—	1.4	C

A: HB3 halogen bulbs

B: D4S discharge bulbs

C: Wedge base bulbs

D: Double end bulbs

E: Single end bulbs

F: H3 halogen bulbs

G: Wedge base bulbs (amber)

Fuel information

Your vehicle must use only unleaded gasoline.
Premium unleaded gasoline with an octane rating of 91 (Research Octane Number 96) or higher required for optimum engine performance. If 91 octane cannot be obtained, you may use unleaded gasoline with an octane rating as low as 87 (Research Octane Number 91). Use of unleaded gasoline with an octane rating lower than 91 may result in engine knocking. Persistent knocking can lead to engine damage and should be corrected by refueling with higher octane unleaded gasoline.

At minimum, the gasoline you use should meet the specifications of ASTM D4814 in the USA and CGSB 3.5-M93 in Canada.

Fuel tank opening for unleaded gasoline

To help prevent incorrect fueling, your Lexus has a fuel tank opening that will only accept the special nozzle on unleaded fuel pumps.

If your engine knocks...

- Consult your Lexus dealer.
- You may occasionally notice light knocking for a short time while accelerating or driving up hills. This is normal and there is no need for concern.

Gasoline quality

In very few cases, driveability problems may be caused by the brand of gasoline you are using. If driveability problems persist, try changing the brand of gasoline. If this does not correct the problem, consult your Lexus dealer.

Gasoline quality standards

- Automotive manufacturers in the US, Europe and Japan have developed a specification for fuel quality called World-Wide Fuel Charter (WWFC) that is expected to be applied worldwide.
- The WWFC consists of four categories that are based on required emission levels. In the US, category 3 or 4 has been adopted.
- The WWFC improves air quality by lowering emissions in vehicle fleets, and customer satisfaction through better vehicle performance.

Lexus recommends the use of gasoline containing detergent additives

- Lexus recommends the use of gasoline that contains detergent additives to avoid build-up of engine deposits.
- All gasoline sold in the US contains detergent additives to clean and/or keep clean intake systems.

Lexus recommends the use of cleaner burning gasoline

Cleaner burning gasoline, including reformulated gasoline that contains oxygenates such as ethanol or MTBE (Methyl Tertiary Butyl Ether) is available in many areas.

Lexus recommends the use of cleaner burning gasoline and appropriately blended reformulated gasoline. These types of gasoline provide excellent vehicle performance, reduce vehicle emissions, and improve air quality.

Lexus does not recommend blended gasoline

- Lexus allows the use of oxygenate blended gasoline where the oxygenate content is up to 10% ethanol or 15% MTBE.
- If you use gasohol in your Lexus, be sure that it has an octane rating no lower than 87.
- Lexus DOES NOT recommend the use of gasoline containing methanol.

Lexus does not recommend gasoline containing MMT

Some gasoline contain an octane enhancing additive called MMT (Methylcyclopentadienyl Manganese Tricarbonyl).

Lexus DOES NOT recommend the use of gasoline that contains MMT. If fuel containing MMT is used, your emission control system may be adversely affected.

The Malfunction Indicator Lamp on the instrument cluster may come on. If this happens, contact your Lexus dealer for service.

NOTICE

Notice of fuel quality

- Do not use improper fuels. If improper fuels are used the engine will be damaged.
- Do not use leaded gasoline.
  Leaded gasoline can cause damage to your vehicle's three-way catalytic converters causing the emission control system to malfunction.
- Do not use gasohol other than stated above.
  It will cause fuel system damage or vehicle performance problems.
- Use of unleaded fuel with an octane number or rating lower than stated above will cause persistent heavy knocking.
  If severe, this will lead to engine damage.

Fuel-related poor driveability

If after using a different type of fuel, poor driveability is encountered (poor hot starting, vaporization, engine knocking, etc.), discontinue the use of that type of fuel.

When refueling with gasohol

Take care not to spill gasohol.

It may cause paint damage.

Tire information

Typical tire symbols

1 Tire size (→P.343)

2 DOT and Tire Identification Number (TIN) (→P.342)

3 Location of treadwear indicators (→P.236)

4 Run-flat tire (RFT) or standard tire (→P.295)

This vehicle can be equipped with either run-flat tires (RFT) or standard tires. A "RFT" or "DSST" mark is molded on the sidewall of the run-flat tire.

5 Turning indicator (→P.236)

Some vehicles are equipped with directional tires.

6 Tire ply composition and materials

Plies are layers of rubber-coated parallel cords. Cords are the strands which form the plies in a tire.

7 Radial tires or bias-ply tires

A radial tire has "RADIAL" on the sidewall. A tire not marked "RADIAL" is a bias-ply tire.

8 "TUBELESS" or "TUBE TYPE"

A tubeless tire does not have a tube and air is directly filled in the tire. A tube type tire has a tube inside the tire and the tube maintains the air pressure.

9 Load limit at maximum cold tire inflation pressure (→P.238)

10 Maximum cold tire inflation pressure (→P.334)

This means the pressure to which a tire may be inflated.

11 Uniform tire quality grading

For details, see "Uniform tire quality grading" that follows.

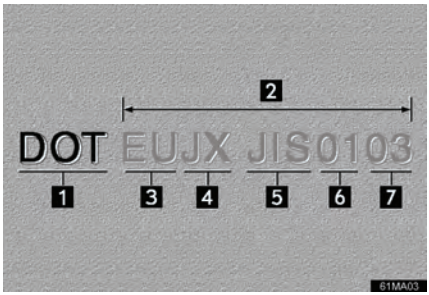
12 Summer tire or all season tire (→P.238)

An all season tire has "M+S" on the sidewall. A tire not marked "M+S" is a summer tire.

13 "TEMPORARY USE ONLY" (→P.298)

A compact spare tire is identified by the phrase "TEMPORARY USE ONLY" molded into its sidewall. This tire is designed for temporary emergency use only.

Typical DOT and tire identification number (TIN)

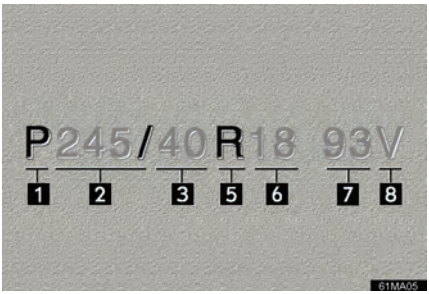


1 "DOT" symbol*
2 Tire Identification Number (TIN)
3 Tire manufacturer's identification mark
4 Tire size code
5 Manufacturer's optional tire type code (3 or 4 letters)
6 Manufacturing week
7 Manufacturing year

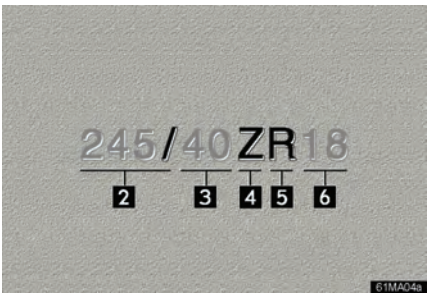
* The "DOT" symbol certifies that the tire conforms to applicable Federal Motor Vehicle Safety Standards.

Tire size

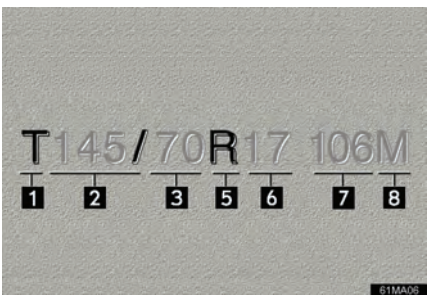
Typical tire size information



▶ Type A and B



▶ Type C



▶ Spare

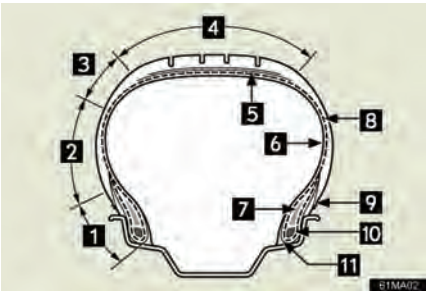
The illustration indicates typical tire size.

1 Tire use (P = Passenger car, T = Temporary use)
2 Section width (in millimeters)
3 Aspect ratio (tire height to section width)
4 Speed category (alphabet with one letter)
5 Tire construction code (R = Radial, D = Diagonal)
6 Wheel diameter (in inches)
7 Load index (2 digits or 3 digits)
8 Speed symbol (alphabet with one letter)

Tire measurements

1 Section width
2 Tire height
3 Wheel diameter

Tire section names



1 Bead
2 Sidewall
3 Shoulder
4 Tread
5 Belt
6 Inner liner
7 Reinforcing rubber
8 Carcass
9 Rim lines
10 Bead wires
11 Chafer

Uniform Tire Quality Grading

This information has been prepared in accordance with regulations issued by the National Highway Traffic Safety Administration of the U.S. Department of Transportation.
It provides the purchasers and/or prospective purchasers of Lexus vehicles with information on uniform tire quality grading.

Your Lexus dealer will help answer any questions you may have as you read this information.

DOT quality grades

All passenger vehicle tires must conform to Federal Safety Requirements in addition to these grades. Quality grades can be found where applicable on the tire sidewall between tread shoulder and maximum section width.

For example: Treadwear 200 Traction AA Temperature A

Treadwear

The treadwear 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 (1 - 1/2) 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, however, and may depart significantly from the norm due to variations in driving habits, service practices and differences in road characteristics and climate.

Traction AA, A, B, C

The traction grades, from highest to lowest, are AA, 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.

Warning: The traction grade assigned to this tire is based on braking (straight ahead) traction tests and does not include cornering (turning) traction.

Temperature A, B, C

The temperature grades are A (the highest), B, and C, representing the tire's resistance to the generation of heat and its ability to dissipate heat when tested under controlled conditions on a specified indoor laboratory test wheel.

Sustained high temperature can cause the material of the tire to degenerate and reduce tire life, and excessive temperature can lead to sudden tire failure.

The grade C corresponds to a level of performance which all passenger car tires must meet under the Federal Motor Vehicle Safety Standard No. 109.

Grades B and A represent higher levels of performance on the laboratory test wheel than the minimum required by law.

Warning: The temperature grades for this tire are established for a tire that is properly inflated and not overloaded.
Excessive speed, under inflation, or excessive loading, either separately or in combination, can cause heat buildup and possible tire failure.

Glossary of tire terminology

Tire related term	Meaning
Cold tire inflation pressure	Tire pressure when the vehicle has been parked for three hours or more, or has not been driven more than 1 mile or 1.5 km under that condition
Maximum inflation pressure	The maximum cold inflated pressure to which a tire may be inflated, shown on the sidewall of the tire
Recommended inflation pressure	Cold tire inflation pressure recommended by a manufacturer
Accessory weight	The combined weight (in excess of those standard items which may be replaced) of automatic transmission, power steering, power brakes, power windows, power seats, radio and heater, to the extent that these items are available as factory-installed equipment (whether installed or not)
Curb weight	The weight of a motor vehicle with standard equipment, including the maximum capacity of fuel, oil and coolant, and if so equipped, air conditioning and additional weight optional engine
Maximum loaded vehicle weight	The sum of: (a) Curb weight (b) Accessory weight (c) Vehicle capacity weight (d) Production options weight
Normal occupant weight	150 lb. (68 kg) times the number of occupants specified in the second column of Table 1 that follows
Occupant distribution	Distribution of occupants in a vehicle as specified in the third column of Table 1* below

Tire related term	Meaning
Production options weight	The combined weight of installed regular production options weighing over 5 lb. (2.3 kg) in excess of the standard items which they replace, not previously considered in curb weight or accessory weight, including heavy duty brakes, ride levelers, roof rack, heavy duty battery, and special trim
Rim	A metal support for a tire or a tire and tube assembly upon which the tire beads are seated
Rim diameter (Wheel diameter)	Nominal diameter of the bead seat
Rim size designation	Rim diameter and width
Rim type designation	The industry manufacturer's designation for a rim by style or code
Rim width	Nominal distance between rim flanges
Vehicle capacity weight (Total load capacity)	The rated cargo and luggage load plus 150 lb. (68 kg) times the vehicle's designated seating capacity
Vehicle maximum load on the tire	The load on an individual tire that is determined by distributing to each axle its share of the maximum loaded vehicle weight, and dividing by two
Vehicle normal load on the tire	The load on an individual tire that is determined by distributing to each axle its share of curb weight, accessory weight, and normal occupant weight (distributed in accordance with Table 1* below), and dividing it by two
Weather side	The surface area of the rim not covered by the inflated tire
Bead	The part of the tire that is made of steel wires, wrapped or reinforced by ply cords and that is shaped to fit the rim

Tire related term	Meaning
Bead separation	A breakdown of the bond between components in the bead
Bias ply tire	A pneumatic tire in which the ply cords that extend to the beads are laid at alternate angles substantially less than 90 degrees to the centerline of the tread
Carcass	The tire structure, except tread and sidewall rubber which, when inflated, bears the load
Chunking	The breaking away of pieces of the tread or sidewall
Cord	The strands forming the plies in the tire
Cord separation	The parting of cords from adjacent rubber compounds
Cracking	Any parting within the tread, sidewall, or innerliner of the tire extending to cord material
CT	A pneumatic tire with an inverted flange tire and rim system in which the rim is designed with rim flanges pointed radially inward and the tire is designed to fit on the underside of the rim in a manner that encloses the rim flanges inside the air cavity of the tire
Extra load tire	A tire designed to operate at higher loads and at higher inflation pressures than the corresponding standard tire
Groove	The space between two adjacent tread ribs
Innerliner	The layer(s) forming the inside surface of a tubeless tire that contains the inflating medium within the tire
Innerliner separation	The parting of the innerliner from cord material in the carcass

Tire related term	Meaning
Intended outboard side-wall	(a)The sidewall that contains a whitewall, bears white lettering, or bears manufacturer, brand, and/or model name molding that is higher or deeper than the same molding on the other sidewall of the tire, or (b)The outward facing sidewall of asymmetrical tire that has a particular side that must always face out-ward when mounted on a vehicle
Light truck (LT) tire	A tire designated by its manufacturer as primarily intended for use on lightweight trucks or multipurpose passenger vehicles
Load rating	The maximum load that a tire is rated to carry for a given inflation pressure
Maximum load rating	The load rating for a tire at the maximum permissible inflation pressure for that tire
Maximum permissible inflation pressure	The maximum cold inflation pressure to which a tire may be inflated
Measuring rim	The rim on which a tire is fitted for physical dimension requirements
Open splice	Any parting at any junction of tread, sidewall, or inner-liner that extends to cord material
Outer diameter	The overall diameter of an inflated new tire
Overall width	The linear distance between the exteriors of the side-walls of an inflated tire, including elevations due to labeling, decorations, or protective bands or ribs

Tire related term	Meaning
Passenger car tire	A tire intended for use on passenger cars, multipurpose passenger vehicles, and trucks, that have a gross vehicle weight rating (GVWR) of 10,000 lb. or less
Ply	A layer of rubber-coated parallel cords
Ply separation	A parting of rubber compound between adjacent plies
Pneumatic tire	A mechanical device made of rubber, chemicals, fabric and steel or other materials, that, when mounted on an automotive wheel, provides the traction and contains the gas or fluid that sustains the load
Radial ply tire	A pneumatic tire in which the ply cords that extend to the beads are laid at substantially 90 degrees to the centerline of the tread
Reinforced tire	A tire designed to operate at higher loads and at higher inflation pressures than the corresponding standard tire
Section width	The linear distance between the exteriors of the sidewalls of an inflated tire, excluding elevations due to labeling, decoration, or protective bands
Sidewall	That portion of a tire between the tread and bead
Sidewall separation	The parting of the rubber compound from the cord material in the sidewall

Tire related term	Meaning
Snow tire	A tire that attains a traction index equal to or greater than 110, compared to the ASTM E-1136 Standard Reference Test Tire, when using the snow traction test as described in ASTM F-1805-00, Standard Test Method for Single Wheel Driving Traction in a Straight Line on Snow-and Ice-Covered Surfaces, and which is marked with an Alpine Symbol ( ) on at least one sidewall
Test rim	The rim on which a tire is fitted for testing, and may be any rim listed as appropriate for use with that tire
Tread	That portion of a tire that comes into contact with the road
Tread rib	A tread section running circumferentially around a tire
Tread separation	Pulling away of the tread from the tire carcass
Treadwear indicators (TWI)	The projections within the principal grooves designed to give a visual indication of the degrees of wear of the tread
Wheel-holding fixture	The fixture used to hold the wheel and tire assembly securely during testing

*: Table 1—Occupant loading and distribution for vehicle normal load for various designated seating capacities

Designated seating capacity, Number of occupants	Vehicle normal load, Number of occupants	Occupant distribution in a normally loaded vehicle
2 through 4	2	2 in front
5 through 10	3	2 in front, 1 in second seat
11 through 15	5	2 in front, 1 in second seat, 1 in third seat, 1 in fourth seat
16 through 20	7	2 in front, 2 in second seat, 2 in third seat, 1 in fourth seat

Customizable features

Your vehicle includes a variety of electronic features that can be personalized to your preferences. Programming these preferences requires specialized equipment and may be performed by an authorized Lexus dealership.

Item	Function	Default setting	After customization
Wireless remote control (→P.18)	Wireless remote control function	ON	OFF
	Door unlock function	One push unlocks the driver's door, second push unlocks passenger's door	Ask your Lexus dealer
	Operation indicator buzzer	ON	OFF
	Operation indicator buzzer volume	Ask your Lexus dealer	
	Open door warning function (when locking the vehicle)	ON	OFF
	Automatic door locking function (if a door is not opened after being unlocked)	ON	OFF
		60 seconds	Ask your Lexus dealer
	Trunk unlock function	Push for about 1 second	Ask your Lexus dealer
	Lock/Unlock turn signal light confirmation	ON	OFF

Item	Function	Default setting	After customization
Door lock (→P.21)	Unlock function	One turn unlocks the driver's door, second turn unlocks passenger's door	Ask your Lexus dealer
	Speed-detecting automatic door lock function	OFF	ON
	Opening driver's door unlocks all doors	OFF	ON
	Shift the shift lever to "P" unlocks all doors	ON	OFF
	Shift the shift lever to position other than "P" locks all doors	ON	OFF
Power windows (→P.48)	Integrated door key operation	ON	OFF
	Wireless remote control integrated operation	Open	OFF
Alarm (→P.61)	Wireless remote control theft deterrent buzzer	ON	OFF
Automatic light control system (→P.123)	Ambient light sensor sensitivity	Ask your Lexus dealer	
	Time period before lights turn off	30 seconds	Ask your Lexus dealer
Windshield wiper (→P.127)	Automatic shift from LO speed to intermittent when the vehicle is stopped	ON	OFF
	Drip prevention function	ON	OFF
Steering column(→P.42)	Automatic tilt-away function	ON	OFF

Initializing your Lexus

The following features should be initialized after certain maintenance is performed to ensure the system operates correctly.

Item	Maintenance performed	Reference
Front seats	Reconnected, replaced or recharged the battery.	P.28
Power windows	Reconnected, replaced or recharged the battery.	P.48
Engine oil replacement reminder	Changed engine oil.	P.222
Tire pressure warning system	When changing the tire inflation pressure by changing traveling speed or load weight, etc.	P. 237

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Reporting safety defects for U.S. owners

If you believe that your vehicle has a defect which could cause a crash or could cause injury or death, you should immediately inform the National Highway Traffic Safety Administration (NHTSA) in addition to notifying the Lexus Division of Toyota Motor Sales, U.S.A., Inc. (Toll-free: 1-800-25-LEXUS).

If NHTSA receives similar complaints, it may open an investigation, and if it finds that a safety defect exists in a group of vehicles, it may order a recall and remedy campaign. However, NHTSA cannot become involved in individual problems between you, your dealer, or the Lexus Division of Toyota Motor Sales, U.S.A., Inc.

To contact NHTSA, you may call the Vehicle Safety Hotline toll-free at 1-888-327-4236 (TTY: 1-800-424-9153); go to *http://www.safercar.gov*; or write to: Administrator, NHTSA, 1200 New Jersey Ave, S.E., Washington, DC 20590. You can also obtain other information about motor vehicle safety from *http://www.safercar.gov*.

Seat belt instructions for Canadian owners (in French)

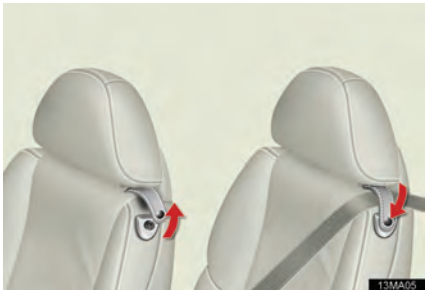
The following is a French explanation of seat belt instructions extracted from the seat belt section in this manual.

See the seat belt section for more detailed seat belt instructions in English.

Utilisation adéquate de la ceinture de sécurité

1. Tirez sur la ceinture épaulière jusqu'à ce qu'elle recouvre entièrement l'épaule; elle ne doit cependant pas venir en contact avec le cou ni glisser de l'épaule.
2. Placez la ceinture abdominale le plus bas possible sur les hanches.
3. Réglez la position du siège vers l'arrière. Tenez-vous assis dans le fond du siège, le dos droit.
4. Ne faites pas vriller la ceinture de sécurité.

Guide de ceinture de sécurité



Les guides de ceinture de sécurité sont fixés aux épaulements des sièges avant afin de permettre aux occupants plus petits assis à l'avant d'utiliser facilement les ceintures de sécurité.

Lorsque vous accédez aux sièges arrière ou que vous les quittez, libérez la ceinture de sécurité de son guide.

Entretien et soin

Ceintures de sécurité

Avec un tissu ou une éponge, nettoyez à l'aide d'un savon doux et de l'eau tiède. Vérifiez aussi les ceintures pour vous assurer qu'elles ne présentent pas d'usure excessive, d'effilochage ou de coupures.

ATTENTION

Dommages et usure de la ceinture de sécurité

Vérifiez périodiquement le système de ceintures de sécurité. Assurez-vous qu'il n'y a pas de coupures, d'effilochures ni de pièces desserrées. N'utilisez pas une ceinture de sécurité endommagée avant qu'elle soit remplacée. Les ceintures de sécurité endommagées ne peuvent pas protéger les occupants contre les blessures.

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For details of equipment related to the navigation system and touch screen, such as Hands-free system (for cellular phone), refer to the “Navigation System Owner’s Manual”.

Abbreviation/Acronym list

ABBREVIATIONS	MEANING
A/C	Air Conditioning
ABS	Anti-lock Brake System
ACC	Accessory
AFS	Adaptive Front-lighting System
ALR	Automatic Locking Retractor
CRS	Child Restraint System
ECU	Electronic Control Unit
EDR	Event Data Recorder
ELR	Emergency Locking Retractor
GAWR	Gross Axle Weight Ratings
I/M	Emission inspection and maintenance
INFO	Information
LATCH	Lower Anchors and Tethers for Children
LED	Light Emitting Diode
MMT	Methylcy clopentadienyl Manganese Tricarbonyl
M + S	Mud and Snow
MTBE	Methyl Tertiary Butyl Ether
OBD	On Board Diagnostics
PWR	Power
SRS	Supplemental Restraint System
TIN	Tire Identification Number
TPMS	Tire Pressure Monitoring (Warning) System
TRAC	Traction Control
VIN	Vehicle Identification Number
VSC	Vehicle Stability Control

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P.284 If the warning light turns on

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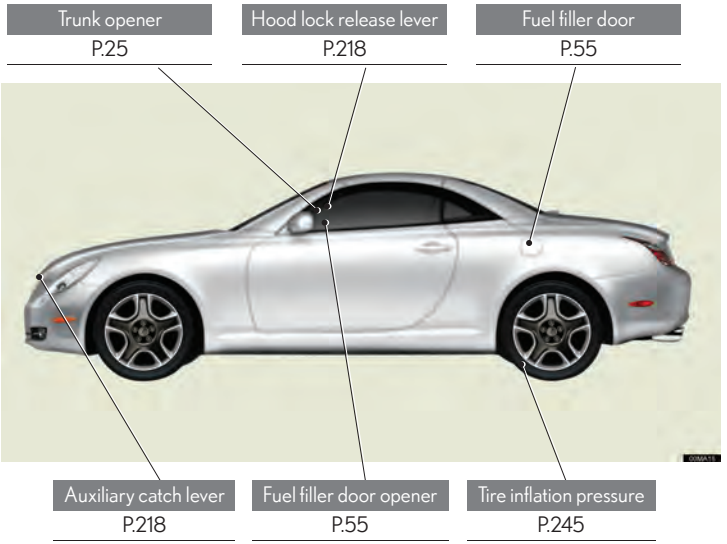
GAS STATION INFORMATION



Fuel tank capacity	19.8 gal. (75 L, 16.5 Imp.gal.)	P.330
Fuel type	Unleaded gasoline only	P.330
Cold tire inflation pressure	psi (kPa, kgf/cm^2 or bar) P245/40R18 93V 33 (230, 2.3) 245/40R18 93Y 33 (230, 2.3) 245/40ZR18 33 (230, 2.3)	P.334
Engine oil capacity (Drain and refill)	qt. (L, Imp.qt.) With filter 5.5 (5.2, 4.6) Without filter 4.9 (4.6, 4.0)	P.330
Engine oil type	Toyota Genuine Motor Oil or equivalent Oil grade: ILSAC multigrade engine oil	P.330

ソU-5

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