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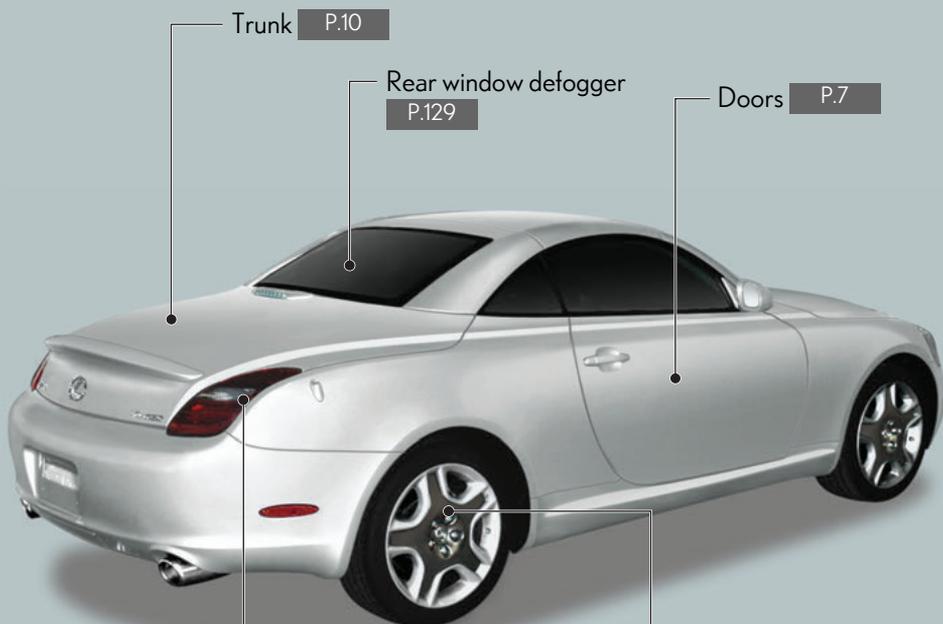
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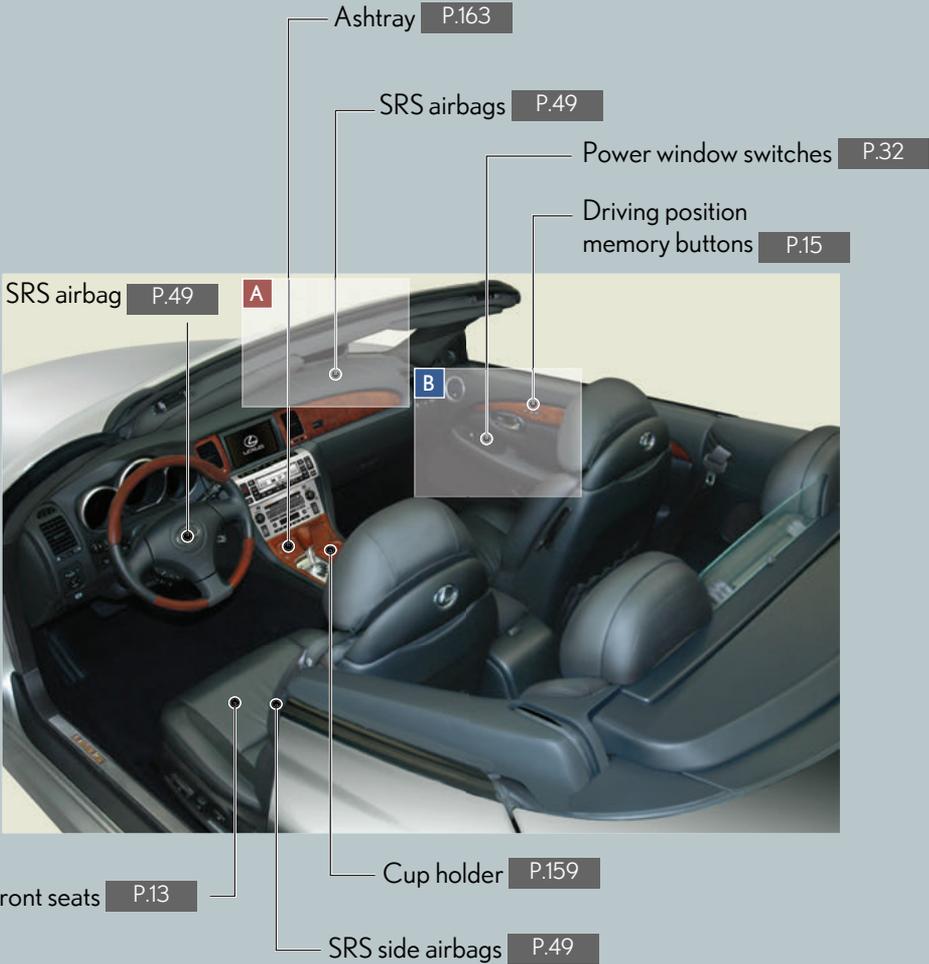
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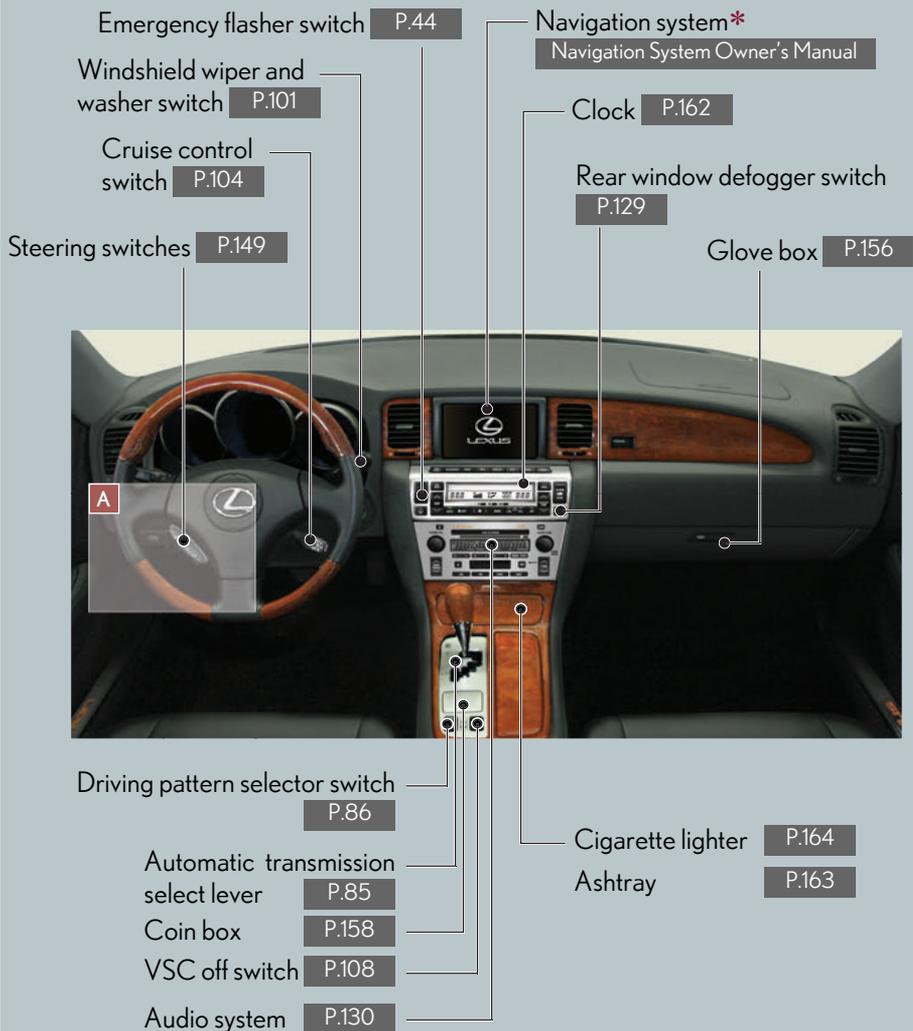


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# Pictorial index

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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.

## Leak detection pump

This pump performs fuel evaporation leakage check. This check is done approximately five hours after the engine is turned off. So you may hear sound coming from underneath the trunk for several minutes. It does not indicate a malfunction.

### 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.

### Safety symbol



In this manual, you will also see a circle with a slash through it. This means “Do not”, “Do not do this”, or “Do not let this happen”.

## Before driving

# 1

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## 1-1. Key information

# 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 rear 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, expose them to high temperatures by placing them in direct sunlight, or get them wet.
- Do not expose the keys to electromagnetic materials or any material that blocks electromagnetic waves.

## 1-2. Opening, closing and locking the doors and trunk 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 doors

Push and hold to sound alarm.

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

### 3 Opens the trunk

### ■ 2-step unlocking function

When you push the UNLOCK button, the driver's door is unlocked. Pushing the button again within 3 seconds unlocks the other door.

### ■ 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 ignition switch is in the ON position.

### ■ Operating indicator

Doors : A buzzer sounds and the hazard lights flash.

(Lock: Once, Unlock: Twice)

Trunk : 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.228)

### ■ Security feature

If a door is not opened for approximately 30 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.

### ■ Customized function

Settings (e.g.: buzzer) can be changed for each remote control. (→P.322)

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

FCC ID: MOZB12UE

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.

## 1-2. Opening, closing and locking the doors and trunk

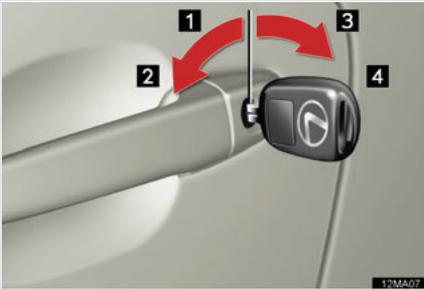
# Doors

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

### ■ Wireless remote control

→P.4

### ■ 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.

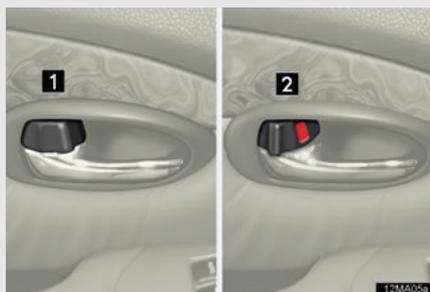
- 4 Opens the side windows (turn and hold)

### ■ 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.

### ■ Door lock prevention

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

### ■ Automatic door locking system

The vehicle locks both side doors automatically, when the automatic transmission selector lever is moved from the P position with the ignition switch in the ON position. This feature can be deactivated or changed. (→P.322)

### ■ Automatic door unlocking system

The vehicle unlocks both side doors automatically when the automatic transmission selector lever is moved to the P position with the ignition switch in the ON position.

This feature can be deactivated or changed. (→P.323)

### ■ Customization

The doors that are automatically locked/unlocked, when the key is used can be changed. (→P.323)

## 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 dangerous injury.

- Always use a seat belt.
- Always lock the doors.
- Ensure that all doors are properly closed.
- Do not pull the inside handle of the door while driving.

## 1-2. Opening, closing and locking the doors and trunk

# Trunk

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

### ■ Trunk opener

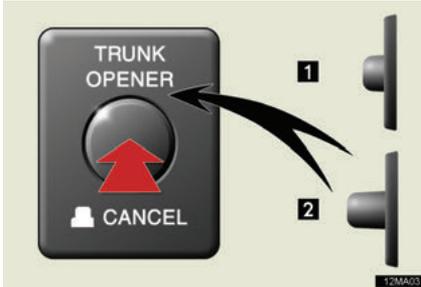


- 1 Push the switch to release the trunk lid.

### ■ Wireless remote control

→P.4

## Locking the trunk lid opener feature



**1** Operative

**2** Inoperative

The main switch is on the left side in the glove box.

When required to leave a key to the vehicle with a parking attendant, provide the attendant with the valet key.

1  
Before driving

### ■ Trunk light

The trunk light turns on when the trunk is opened.

### ■ Trunk handle



Use the grip when closing the trunk.

### ■ When keeping items in the trunk

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

The trunk lid can be opened using a loop of wire in the rear 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.

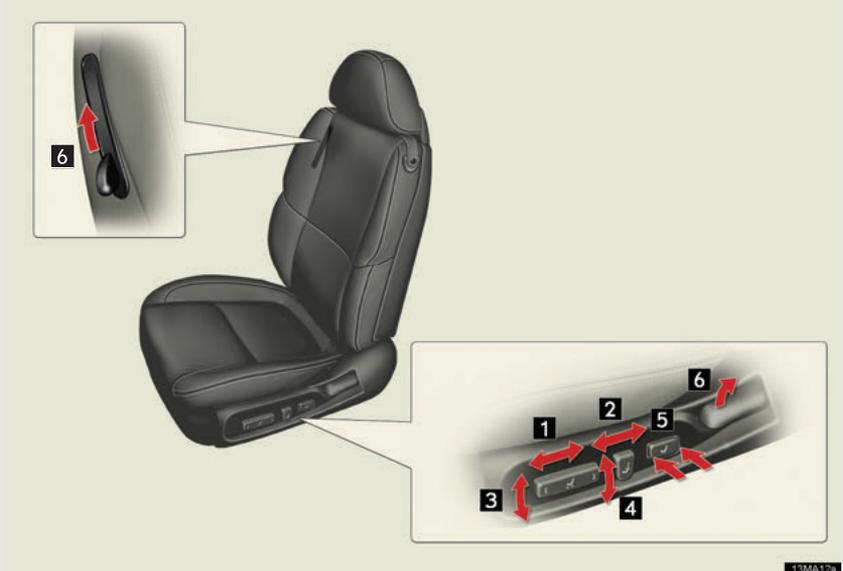
This not only keeps personal belongings from being thrown out, but also prevents exhaust gases from entering the vehicle.

#### ■ 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 adjust switch
- 5 Vertical height adjust 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 ignition key 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.



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 ignition 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.

### ■ Key off operation

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 if the key is removed from the ignition switch.

### ■ 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.(→P.14, P.15)

 **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.

## 1-3. Adjustable components

### Head restraints

The vertical and horizontal positions of the front head restraints can be adjusted.



**1** Grip head restraint and twist to tilt forward or backward.

**2** Grip head restraint and move it up or down.

Push and hold the lock release button when lowering or removing the head restraint.

**3** Removing

Remove the head restraint while pushing the release button.

### Adjusting the height of the front head restraints



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

#### ■ Head restraints of different seats

The head restraints are specially designed for the seats which they are installed.

 **CAUTION****■ Head restraint precautions**

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

- Adjust the head restraint to the correct position at all times.
- Do not drive with head restraints removed.

## 1-3. Adjustable components

# 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 straight and well back in the seat.
- 4 Do not twist the seat belt.

### ■ Wearing 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.

1

Before driving

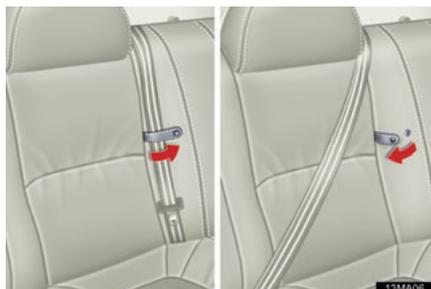
## Front seat belt pretensioners



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 and a rear impact.

### Rear seat belt holders



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

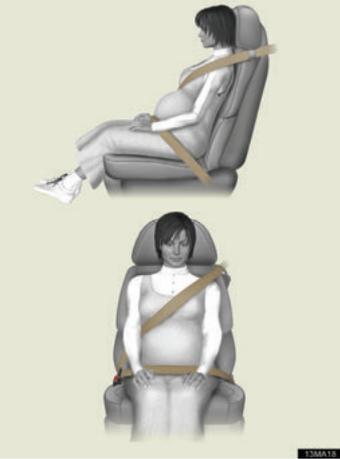
#### ■ Emergency locking retractor (ELR)

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 CRS firmly. To free the belt again, fully retract the belt and then pull the belt out once more. (→P.65)

### ■ Pregnant women



Obtain medical advice and wear the seat belt in the proper way.

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.

### ■ Child seat belt usage

- Use a child restraint system appropriately for the child, until the child becomes large enough to properly wear the vehicle's seat belt. (→P.20)
- When the child becomes large enough to properly wear the vehicle's seat belt, follow the instructions on P.20 regarding seat belt usage.

### ■ Replacing the belt after activation of the pretensioner

The seat belts cannot be used if a pretensioner has activated. After an accident, have your Lexus dealer inspect the pretensioners and replace them, if necessary.

### ■ 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.

### ⚠ CAUTION

#### ■ Wearing a seat belt

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.

- Ensure that all passengers wear a seat belt.
- Always wear a seat belt.
- 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 damage and wear**

- Do not damage the seat belts by allowing the belt, plate or buckle to be jammed in the door.
- Do not use a damaged seat belt until it is replaced. Damaged seat belts cannot protect an occupant from 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.

**■ 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.

 CAUTION**■ 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**

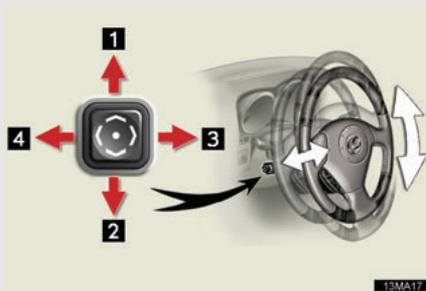
When releasing the seat belt, press on the buckle release button on the extender, not on the seat belt.

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

## 1-3. Adjustable components

# Steering wheel

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



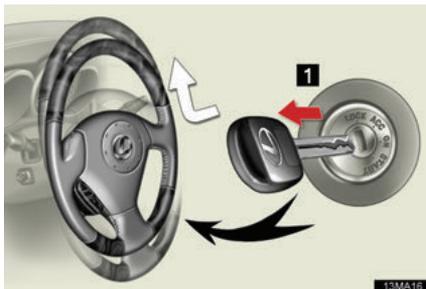
- 1 Up
- 2 Down
- 3 Toward the driver
- 4 Away from the driver

1

Before driving

### 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.323)

### ■ 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 ignition switch and reinsert it.

### 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.

## 1-3. Adjustable components

# Auto anti-glare mirror

In “AUTO” mode, the inside and side 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:

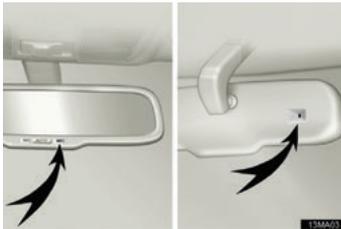
The mirror surfaces dim automatically to reduce the reflected light.

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

1

Before driving

### ■ 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.

## 1-3. Adjustable components

### Side mirrors

Adjust the mirror angle using the switch.



- 1 Select the mirror to adjust (L: left or R: right).
- 2 Adjust the mirror up, down, in or out using the switch.

### Folding the side mirrors



- 1 Push backward.

#### ■ Adjusting the side 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 ignition switch is set to ACC.

**■ Side mirror operating conditions**

The ignition switch must be turned to ACC or ON.

**■ When the mirrors are fogged up**

Turn on the mirror heaters to defog the mirrors. (→P.129)

**⚠ 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 backward.
- 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.

And do not touch the mirror surface also when the wiper switch is on at lower than 77°F (25°C) of the outside temperature.

**⚠ NOTICE****■ If the mirror gets icy**

Do not scrape the mirror face. Use a spray de-icer to de-ice the mirror.

# 1-4. Opening and closing the windows and retractable hardtop

## 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 ignition 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.4, P.7)

**■ 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.

### CAUTION

#### ■ When closing a window

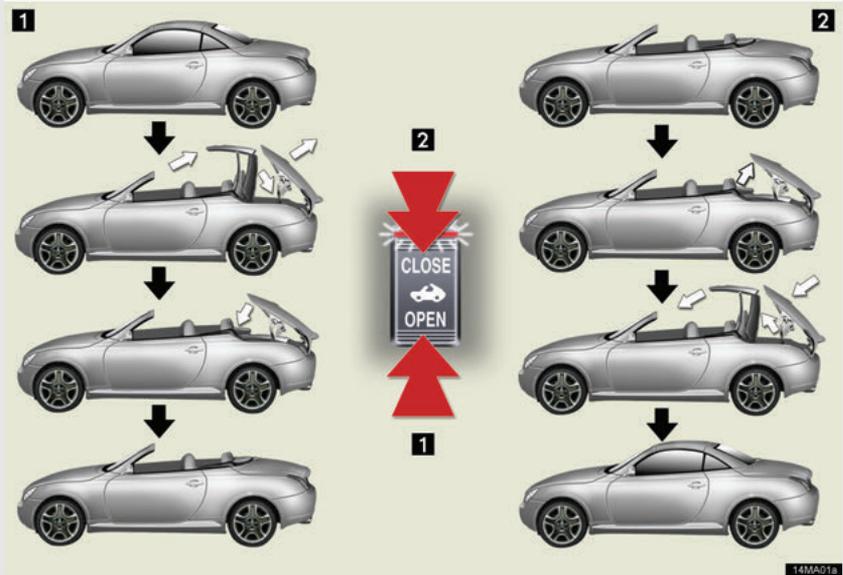
Observe the following precautions. Failing to do so may result in death or serious injury.

- 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.

# 1-4. Opening and closing the windows and retractable hardtop

## 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

Hold down 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.

### ■ Retractable hardtop operating conditions

- The ignition switch is turned to ON.
- The trunk lid is closed. (→P.10)
- The trunk lid opener main switch is ON. (→P.10)
- The luggage cover in the trunk is properly set. (For opening) (→P.169)

When an vehicle is on an incline or gets on the step, the retractable hardtop may not active 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 pushed, 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 opened (closed) fully

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

### ■ 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.148)

### CAUTION

To avoid serious injury, you must do the following:

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

- 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 be gradually lowered, 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 ignition 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  $-4^{\circ}\text{F}$  ( $-20^{\circ}\text{C}$ ), 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 ignition 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.

# 1-5. Removing the fuel tank cap

## 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.

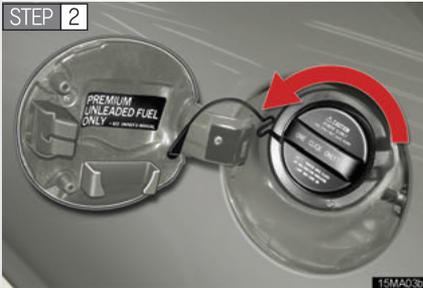
### ■ Removing the fuel tank cap

STEP 1



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

STEP 2



Turn the fuel tank cap slowly to remove.

STEP 3



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 or higher). (→P.301)

#### ■ 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 damage 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.301)
- Do not spill fuel during refueling.

## 1-6. Theft deterrent system

# 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.



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

1

Before driving

### ■ 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.

### ⚠ NOTICE

#### ■ To prevent damage to the key

The key may be damaged if it is:

- Bent
- Subjected to a strong impact
- Left in direct sunlight
- Wet
- Left in close proximity to objects emitting magnetic fields
- In close proximity to an object that interferes with the electromagnetic wave that is emitted

Keep all keys in a safe place.

## 1-6. Theft deterrent system

# Alarm

The system is designed to trigger the alarm, if forcible entry is detected (horn sounds and emergency flashers flash).



Shut the retractable hardtop if it is opened. After exiting the vehicle, shut the doors, trunk and hood, and lock both side doors.

The system will begin operating automatically after 30 seconds.

The security system indicator light will begin flashing when the system is set.

## Deactivating or stopping the alarm



Do one of the following:

- Unlock a door or trunk using a key or remote entry system.
- Turn the ignition switch to ON.

The system will return to standby mode approximately 30 seconds after it operates.

### ■ Items to check before locking the vehicle

To prevent unintended triggering of the alarm, check that there is no one in the vehicle and that all windows are closed before locking the vehicle.

### ■ Alarm operation

The alarm will sound if any of the following conditions occur:

- When a locked door or trunk is opened in any way other than using a key or wireless remote control, such as someone exiting the vehicle after the alarm is activated.
- When the hood is lifted open while the vehicle is locked.
- When the battery is reconnected.

### ■ Sounding an alarm

Manually triggering the alarm will help deter anyone from breaking into or damaging your vehicle. (→P.4)

### ■ 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.

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

This device complies with RSS-210 of Industry 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.

## 1-6. Theft deterrent system

# 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)

16MA01

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.13)
- 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.13)
- 3 Adjust the seatback so that the controls are easily operable. (→P.13)
- 4 Adjust the tilt and telescopic positions of the steering wheel downward so the airbag is facing your chest. (→P.27)
- 5 Lock the head restraint in place with the center of the head restraint closest to the top of your ears. (→P.18)
- 6 Wear the seat belt correctly. (→P.20)

### 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 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.

## 1-7. Safety information

# 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 by interior components.

### ► Side airbags

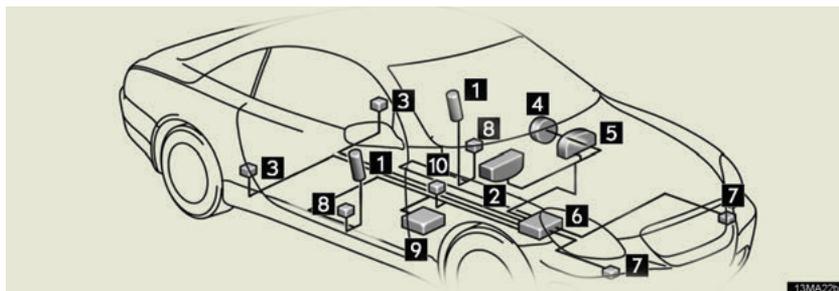
#### **2** Side airbags

Can help protect the torso of the front seat occupants.

1

Before driving

## Airbag system components



- |                          |  |
|--------------------------|--|
| 1 Side airbags           | 6 Airbag sensor assembly                     |
| 2 Front passenger airbag | 7 Front airbag sensors                       |
| 3 Side airbag sensors    | 8 Door side airbag sensors                   |
| 4 Driver airbag          | 9 Occupant detection sensor                  |
| 5 SRS warning light      | 10 Front passenger's seat belt buckle switch |

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 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.).

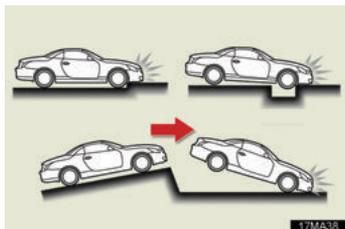
- It is possible that in some collisions where the forward deceleration of the vehicle is very close to the designed threshold level, the SRS front airbags and the seat belt pretensioners may not activate together.
- The SRS front passenger airbag will not activate, if there is no passenger sitting in the front passenger seat. However, the front passenger airbag may deploy, if luggage is put in the seat or the seat belt is buckled up, regardless of the presence of an occupant in the seat.

### ■ 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 luggage is put in the seat or the seat belt is buckled up, regardless of the presence of the occupant in the seat.

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

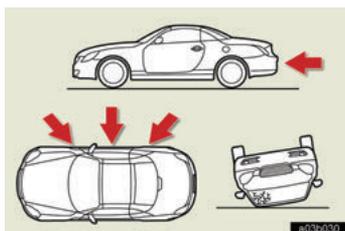
The SRS front airbags may also deploy if a serious impact occurs to the underside of your vehicle. Some examples are shown in the illustration.



- 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)

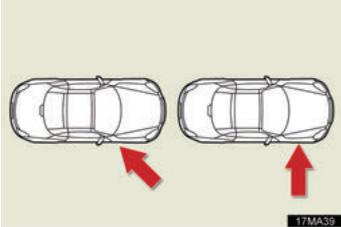
The SRS front airbags are generally not designed to inflate, if the vehicle is involved in a side or rear collision, if it rolls over or if it is involved in a low-speed frontal collision. But, whenever a collision of any type causes sufficient forward deceleration of the vehicle, deployment of the SRS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



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

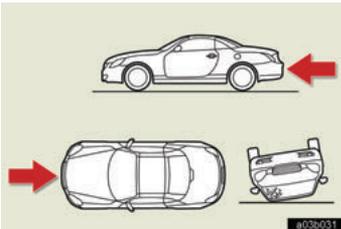
### ■ Types of collisions that may not deploy the SRS airbag (side airbags)

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

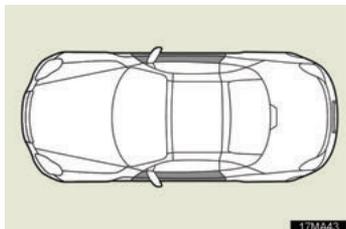
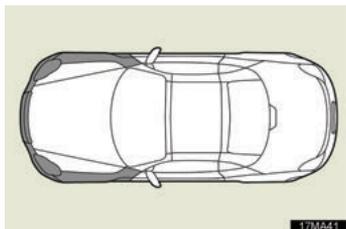
The SRS side airbags are not generally designed to inflate, if the vehicle is involved in a frontal or rear collision, if it rolls over or if it is involved in a low-speed side collision.



- 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 or front passenger airbag cover (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 by 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 while the vehicle is moving.
- 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.60)



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



● Do not attach or lean anything against areas such as the dashboard or steering wheel pad. These items can become projectiles when SRS driver and front passenger airbags deploy.



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

 **CAUTION****■ SRS airbag precautions**

- Do not use seat accessories which cover the parts where the SRS side airbags inflate as this 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.50. 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.

## 1-7. Safety information

# Child restraint system

Lexus strongly recommends the use of child restraint systems.

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

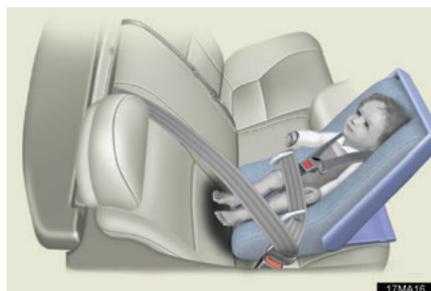
### Points to remember

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

- Choose a child restraint system that conforms 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.63)

### Types of child restraints

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



► INFANT SEAT



▶ CONVERTIBLE SEAT



▶ BOOSTER SEAT

---

■ **When the child restraint system is not in use**

Leave the child restraint system properly secured on the seat. Do not store the restraint loosely on a passenger seat or in the trunk.

■ **When a child is too large for a child restraint system**

Get an appropriate child restraint system for the child. 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.20)

### 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. 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 should not be placed on the front passenger seat except when it is unavoidable. Always move the front seat as far back as possible, because the front passenger airbag could inflate by considerable speed and force. 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.
- 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.

# Installing child restraints

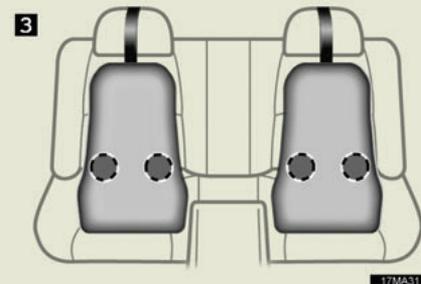
Follow the child restraint system manufacturer's instructions. Firmly secure child restraints using a seat belt or a child restraint lower anchorage belt into both rear seats. Attach the top strap when installing a child restraint.



**1** Seat belts equipped with a child restraint locking mechanism. (ALR/ELR belts except driver's seat belt) (→P.20)



**2** Top strap

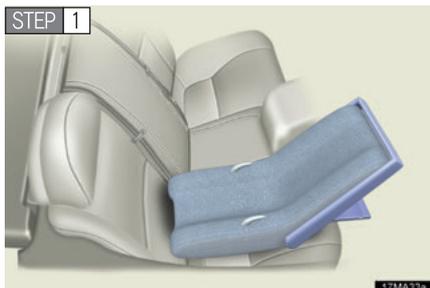


**3** Child restraint lower anchorage

## Installing child restraints using a seat belt

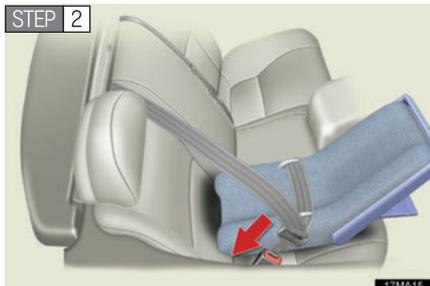
### ■ Rear facing child seat-infant/convertible

STEP 1



Place an infant seat on the seat rear facing rear the rear of the vehicle.

STEP 2



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

STEP 3



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.

STEP 4



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 child 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.



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.

## ■ 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 manufacturer'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.47)

### ⚠ 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:

- ALR mode causes the belt to tighten only which could cause injury or discomfort to the child. (→P.22)
- Do not allow the child to play with the seat belt or the child could be killed or seriously injured.

**CAUTION**

**■ When installing the child restraint system**



● 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 side seat.

● Only put a forward-facing or booster child seat on the front seat when unavoidable. When installing a forward-facing or booster child restraint on the front passenger seat, move the seat as far back as possible. 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 in different directions to be sure it is secure.

● Follow all installation instructions provided by the child restraint system manufacturer.

**■ 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.

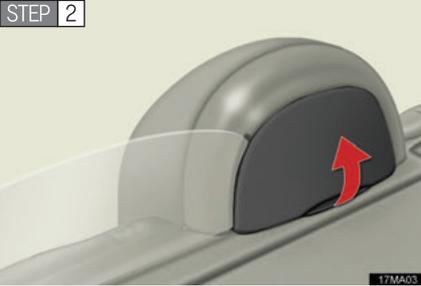
## Child restraint system with a top strap

STEP 1



Secure the child restraint using a seat belt or the lower anchorages. (→P.63)

STEP 2



Insert your hand under the rear cover and remove it.

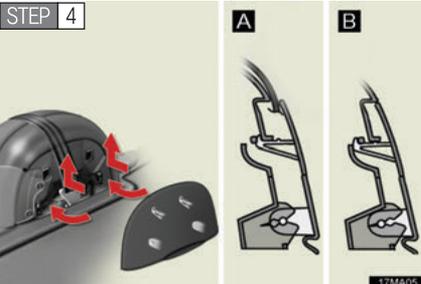
STEP 3



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

Make sure the top strap is securely latched.

STEP 4



Install the rear cover as shown in the illustration **A**.

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

1

Before driving

## Installation with child restraint lower anchorages



### ► Type A

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



### ► Type B

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

If the child restraint has a top strap, the top strap should be latched onto an anchorage.

 **CAUTION****■ To install correctly**

When using the lower anchorages, be sure that there are no foreign objects around the anchorages and that the seat belt is not caught behind the child seat.

Make sure the 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 installing a top strap**

The retractable hardtop should be open. (→P.35)

**■ Child restraint systems that can be installed using the lower anchorages**

Child restraint systems conforming to FMVSS225 or CMVSS210.2 specifications can be used. This vehicle is designed to conform to the SAE J1819.



|   |           |                                       |            |
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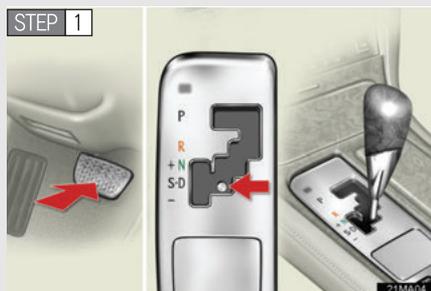
## 2-1. Driving procedures

### Driving the vehicle

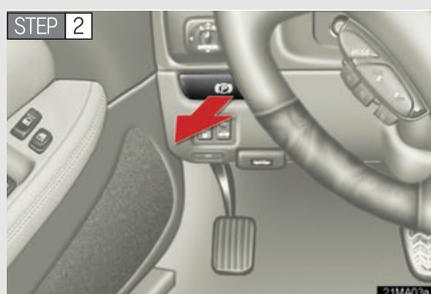
The following procedures should be observed to ensure safe driving.

#### ■ Starting the engine (→P.82)

#### ■ Driving



With the brake pedal depressed, shift the selector lever to D. (→P.85)



Release the parking brake. (→P.90)

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.

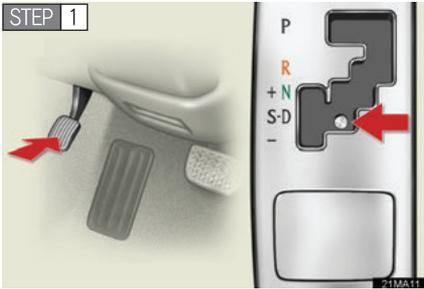
STEP 2 If necessary, set the parking brake. (→P.90)

When the vehicle is stopped for an extended period of time, shift the selector lever to P or N. (→P.85)

## ■ Parking the vehicle

- STEP 1** With the selector lever in D, depress the brake pedal.
- STEP 2** Set the parking brake. (→P.90)
- STEP 3** Shift the selector lever to P. (→P.85)
- STEP 4** Stop the engine.
- STEP 5** Remove the key, go out and lock the doors.

## Starting on a steep incline



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.

### ■ Braking 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 (unleaded and minimum octane rating→P.309).

### 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.
- 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 to stall or lead to poor brake and steering performance, resulting in an accident or damage to the vehicle.
- If you smell exhaust fumes in the vehicle, open the windows and close the trunk lid to ensure plenty of fresh air enters the vehicle. If you can smell exhaust fumes even though there are no other vehicles in the surrounding area, have your vehicle checked by your Lexus dealer. Continued inhalation of exhaust fumes can lead to death by gas poisoning.
- 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.85)
- 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.

### CAUTION

#### ■ While driving the vehicle

- Be careful when driving on slippery surfaces, as the vehicle may skid or spin when downshifting, rapidly accelerating, braking or turning.
- 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.

#### ■ When shifting the selector lever

Use caution if accelerating while shifting.

This may lead to unexpected rapid acceleration of the vehicle that may cause an accident.

#### ■ 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 in hot areas.
  - 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 set 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 leave the engine running in an area with snow build up, or where snow is expected to fall.  
Exhaust gases may enter the interior of the vehicle and cause gas poisoning.

**■ When taking a nap in the vehicle**

- Always turn the engine off. Otherwise, you may accidentally move the selector lever or press the accelerator pedal, which could cause an accident or fire due to abnormal engine overheating. Additionally, if the vehicle is parked in a poorly ventilated area, exhaust fumes may enter the vehicle and cause gas poisoning.

### CAUTION

#### ■ When braking the vehicle

- When the brakes 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 pedal uses up your reserved brake fluid pressure.

- The brake system has 2 independent hydraulic circuits.

If either circuit should fail, the other will still work. However, the pedal will be harder to press, and your stopping distance will increase. Also, the brake system warning light may come on.

### 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.

#### ■ 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.

 NOTICE**■ 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. Expensive 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.268/270)

## 2-1. Driving procedures

# Starting the engine

### ■ Ignition switch



- 1 LOCK:**  
Inserting and removing the key
- 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 ignition switch to START and start the engine.

### ■ Steering lock release



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

### ■ If the engine does not start

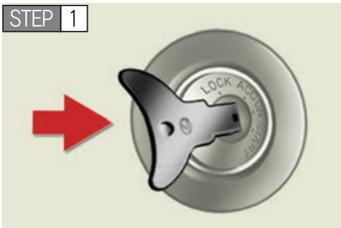
Check whether the other keys will start the engine.

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. (→For your information)

### ■ Starting the engine using the flat key



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



Bring the key case close to the ignition 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 60 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.

### NOTICE

#### ■ To prevent battery discharge

Do not leave the key in the 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.

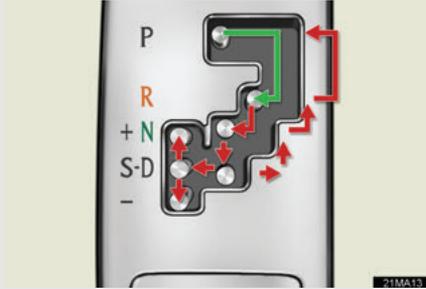
## 2-1. Driving procedures

# 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.

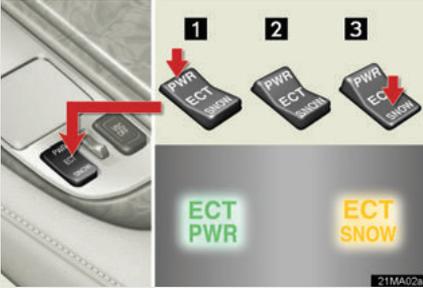
### ■ Shift positions

| Shift position |   |
|----------------|---|
| P              | Parking the vehicle and starting the engine<br>(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.

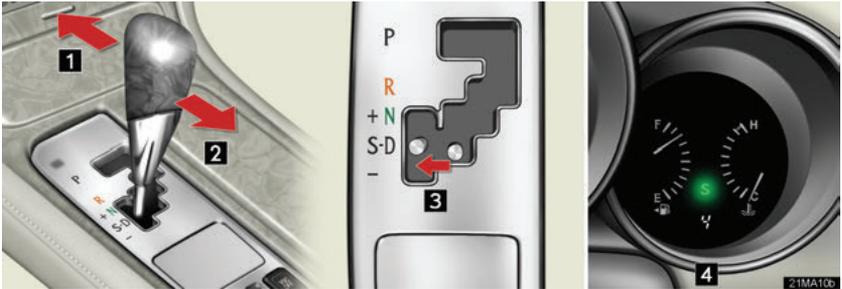
### ■ Selecting a driving mode

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.
- Push **3** to return to regular driving 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<br>mph (km/h) |
|--------------|-----------------------------|
| 4→3          | 88 (142)                    |
| 3→2          | 60 (97)                     |
| 2→1          | 36 (58)                     |

### ■ 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.104)

### ■ 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.280

### ■ If the shift range position indicator light does not come on when the “S” mode is engaged

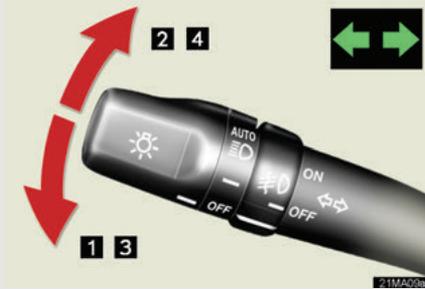
There may be a malfunction in the automatic transmission system.

Have the vehicle inspected by your Lexus dealer immediately.

(In this situation, the vehicle operates as if the selector lever is in D.)

## 2-1. Driving procedures

### 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

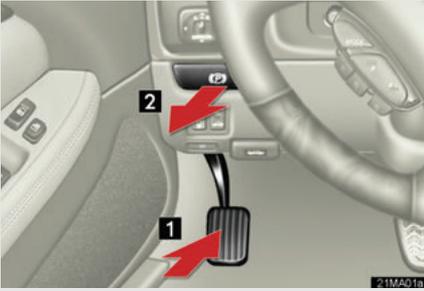
The ignition switch must be turned to ON.

#### ■ If the indicators flash faster than usual

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

## 2-1. Driving procedures

# 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.

## 2-2. Instrument cluster and information display

### 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

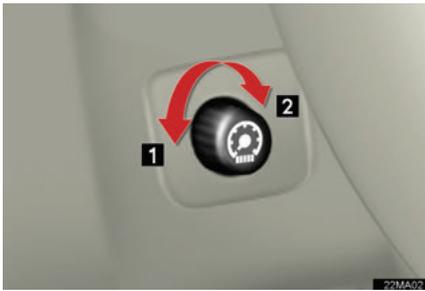
Changes between odometer and trip meter displays.

**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). Immediately stop the vehicle in a safe place and check the engine. (→P.285)

## 2-2. Instrument cluster and information display

### Indicators and warning lights

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



#### ■ Indicators

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



Turn signal indicator  
(→P.89)



Headlight high beam indicator  
(→P.96)



Headlight indicator  
(U.S.A.) (→P.96)



Headlight indicator  
(Canada) (→P.96)



Front fog light indicator  
(→P.100)



Shift position indicator  
(→P.85)



\* AFS OFF indicator  
(→P.98)



Shift range position indicator  
(→P.85)



ECT SNOW indicator  
(→P.86)



ECT PWR indicator  
(→P.86)



Cruise control indicator  
(→P.104)



\* VSC OFF indicator  
(→P.108)



\* Slip indicator  
(→P.107)

### ■ Warning lights

Warning lights inform the driver of a malfunction in the indicated vehicle's systems. (→P.257)



\* These lights turn on when the ignition switch is turned 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, VSC or 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.

## 2-2. Instrument cluster and information display

### Trip information display

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

#### ■ Trip information

- Available driving distance (“Mi” or “km”)
- Available 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.

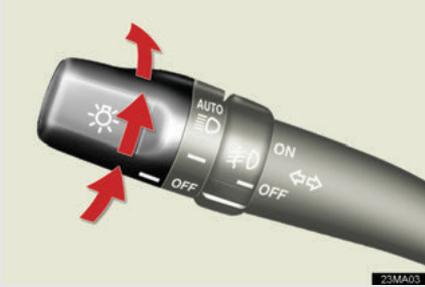
#### ■ When the fuel gauge is close to “E”

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

## 2-3. Operating the headlight and windshield wipers

### Headlight switch

The headlights can be operated manually or automatically.

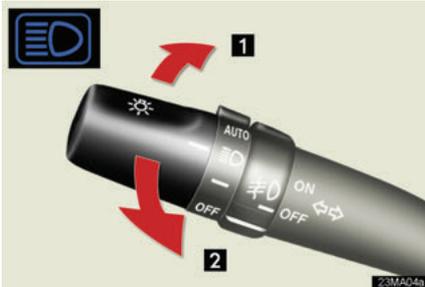


— The side marker, tail, parking, license plate and instrument panel lights turn on.

☰☉ 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.

### ■ 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 turn off automatically, if the engine is stopped and the driver's door is opened while the headlights are turned on.

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

### ■ Automatic headlight leveling system

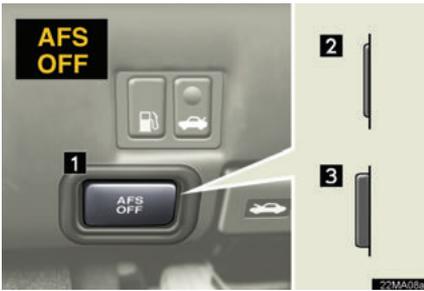
The level of the headlights is automatically adjusted according to the number of passengers and the loading condition of the vehicle, to ensure that the headlights do not interfere other road users.

### ■ Customization

The time takes for headlights to automatically turn on or off can be changed.

## 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.



**1** Adaptive front lighting system cancel switch

**2** Inoperative

**3** Operative

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

### ■ 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

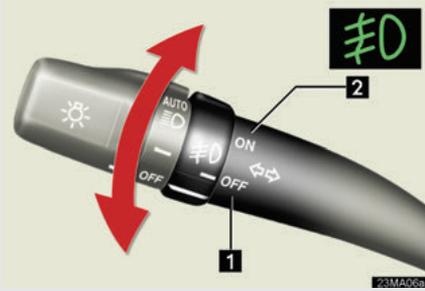
■ **To prevent battery discharge**

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

## 2-3. Operating the headlight and windshield wipers

### 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

## 2-3. Operating the headlight and windshield wipers

### Windshield wipers and washer



- 1 Intermittent windshield wiper operation
- 2 Low-speed windshield wiper operation
- 3 High-speed windshield wiper operation
- 4 Intermittent windshield wiper (interval) adjustment
- 5 Mist operation
- 6 Washer fluid

#### ■ 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.323)

## 2-3. Operating the headlight and windshield wipers

### ■ 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.323)

- 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.

### ■ 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.

## 2-3. Operating the headlight and windshield wipers

### Headlight cleaner switch

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



- 1 Press the switch to clean the headlights.

#### NOTICE

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

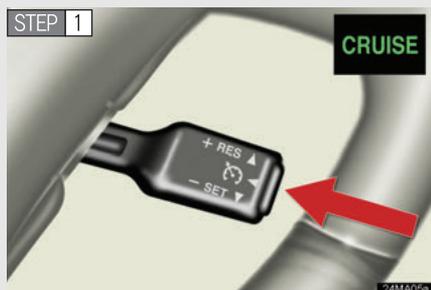
Do not use this function when the washer fluid tank is empty.  
This may cause the washer fluid pump to overheat.

## 2-4. Using other driving systems

### 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.

#### ■ Set the vehicle speed and drive at low speed



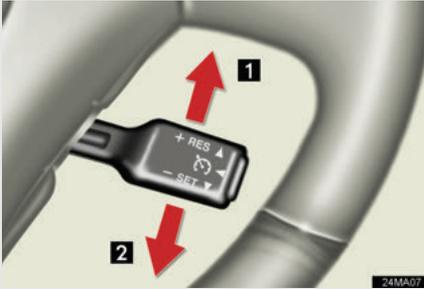
Turn the ON-OFF switch ON.

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

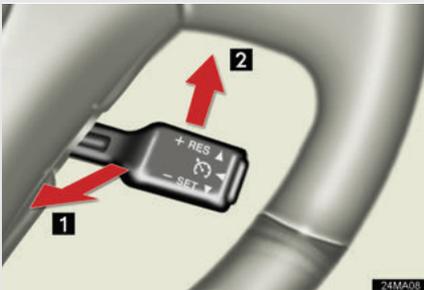


- 1 Increase speed
- 2 Decrease speed

Hold the lever until the desired speed setting is obtained.

Fine adjustment to the set speed (approximately 1.6 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 25 mph (40 km/h).\*

\* Resuming the preset speed is available if the vehicle speed is above 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 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 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.

## 2-4. Using other driving systems

### Driver assist systems

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

#### ■ ABS (Anti-lock Braking System)

Help ensures steering performance in the event of sudden braking or driving on slippery road surfaces.

#### ■ BA (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.

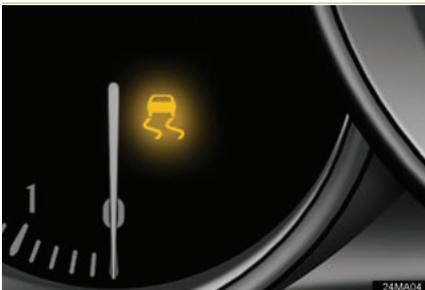
#### ■ TRAC (Traction Control)

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

2

When driving

#### 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 VSC and TRAC

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



- 1 Push the button to turn off VSC and TRAC

The VSC OFF indicator light turns on.

Push the button again to turn the system back on.

### ■ Operating sounds and vibrations caused by the ABS, VSC & 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 ABS, VSC and TRAC systems are operating. None of these indicates that a malfunction has occurred.
  - A sound may be heard.
  - 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 while the ABS is activated.
  - The brake pedal may move down slightly after the ABS is activated.

### ■ If the VSC warning light and VSC OFF indicator stays on

A malfunction may have occurred in the VSC system if the VSC warning light and VSC OFF indicator do not turn off after the key is turned to ON, or while the vehicle is moving. Have the vehicle inspected by your Lexus dealer.

**! CAUTION**

Any of the following conditions may result in an accident which could cause death or serious injury:

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

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

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

The ABS is not designed to shorten the vehicle's stopping distance. Always maintain a safe distance between you and the vehicle in front of you, particularly 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

■ **VSC system limitation**

VSC is not a collision avoidance system, and is not a substitute for safe and careful driving. System performance depends on many factors such as speed, driver input and road conditions.

■ **TRAC may not operate effectively when:**

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

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

■ **When the slip indicator flashes and a warning buzzer sounds**

This situation occurs immediately before VSC is activated. Always drive carefully. Reckless driving may cause an accident.

Exercise particular care when an indicator light flashes and a buzzer sounds.

### CAUTION

#### ■ Replacing tires

Ensure that all tires are the same size and brand, have the same tread pattern, and that the level of tire pressure is at the recommended 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.

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.

$(\text{Cargo capacity}) = (\text{Total load capacity}) - (\text{Total weight of occupants})$

#### ■ Steps for determining correct load limit

**STEP 1** Locate the statement “The combined weight of occupants and cargo should never exceed xxx pounds” on your vehicle’s placard.

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

**STEP 3** Subtract the combined weight of the driver and passengers from xxx pounds or xxx kilograms.

**STEP 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.  $1400 - 750 (5 \times 150) = 650$  lbs.

## 2-5. Driving information

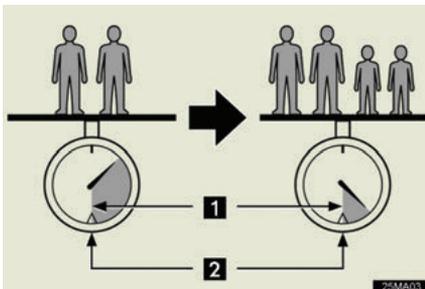
**STEP 5** Determine the combined weight of luggage and cargo being loaded on the vehicle.

The weight may not safely exceed the available cargo and luggage load capacity calculated in Step 4.

**STEP 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

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:

$$645 \text{ lb.} - 366 \text{ lb.} = 279 \text{ lb.} \quad (295 \text{ kg} - 166 \text{ kg} = 129 \text{ kg})$$

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:

$$279 \text{ lb.} - 258 \text{ lb.} = 21 \text{ lb.} \quad (129 \text{ kg} - 117 \text{ kg} = 12 \text{ kg})$$

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.114)

## 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.

## 2-5. Driving information

# 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.111)

### ■ Total load capacity and seating capacity

These are also described on the tire and loading information label. (→P.219)

## 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.

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 72 mph (120 km/h), regardless of the type of snow tires being used.

### ■ 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.
- Slow down sufficiently before entering a curve to ensure that vehicle control is maintained.

## 2-5. Driving information

### 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.

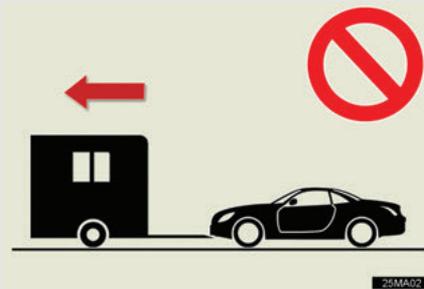


## 2-5. Driving information

# Dinghy towing

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

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.

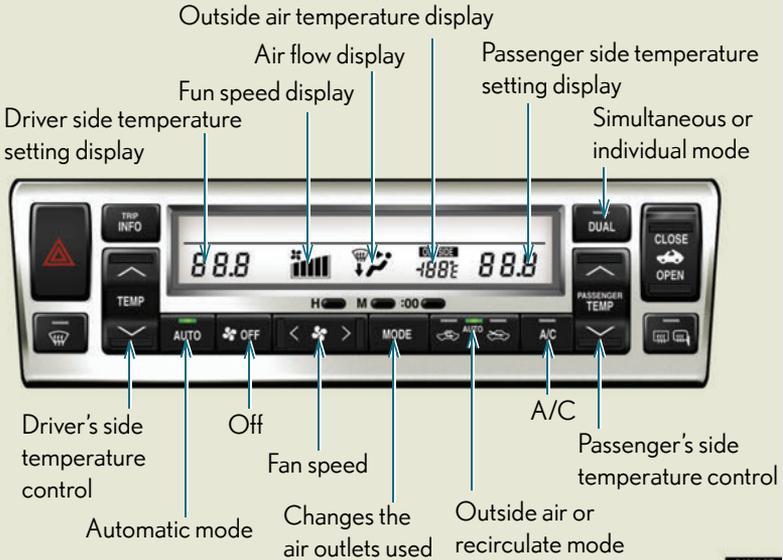


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### 3-1. Using the air conditioning system and defogger

## Automatic air conditioning control

Airflow and outlets automatically adjust according to the temperature setting.



## Using the automatic mode

**STEP 1** Push .

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

**STEP 2** Adjust the temperature setting using .

The temperature for the driver and passenger seats can be set separately. (→P.124)

## Adjusting the settings

### ■ Adjusting the temperature setting

Press .

Use .

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

Press  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  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  to turn the air conditioning system off.

### ■ Defogging the front windshield

**STEP 1** Push .

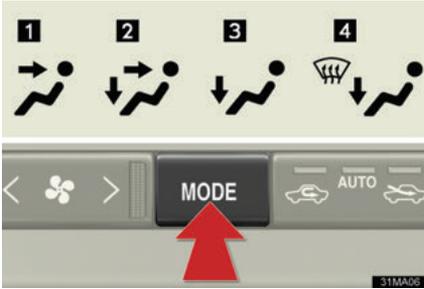
➔ The fan and automatic air conditioning control operate simultaneously.

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

.

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.

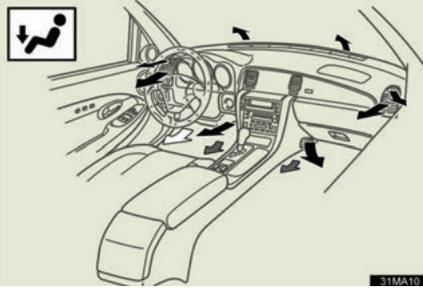


**1** Air flows to the upper body.

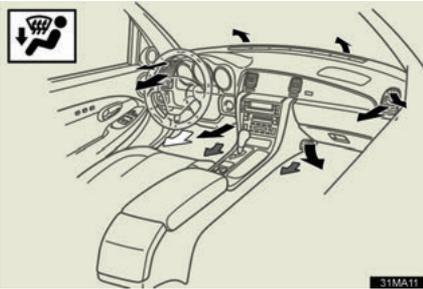


**2** Air flows to the upper body and feet.

### 3-1. Using the air conditioning system and defogger



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.

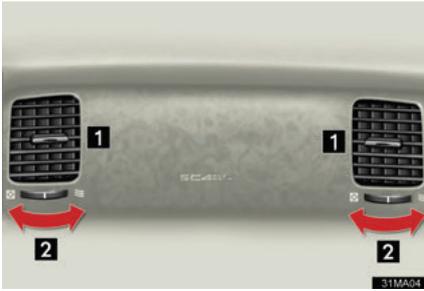
⇒ Floor air vent (→P.127)

#### ■ 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.



### ► Floor air vent

- 1 Turn up to open the vent and down 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.

## 3-1. Using the air conditioning system and defogger

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

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

### ■ Lap-jet vents

Air flows only when the retractable hardtop is opened.

### ■ When the indicator light on switch flashes

Press  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

If it is extremely hot or cold outside the vehicle, the outside temperature displayed may not be accurate.

## 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

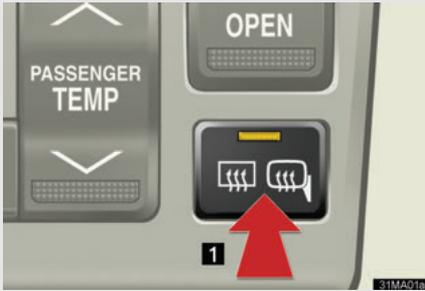
### ■ To prevent battery discharge

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

## 3-1. Using the air conditioning system and defogger

### 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.

#### ■ Window defogger feature

The automatic air conditioning control system detects the operating conditions of the system and automatically switches between recirculated and outside air modes.

#### ■ 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.

## 3-2. Using the audio system

# Audio system

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



32MA08

| Title                           | Page  |
|---------------------------------|-------|
| Opening the audio door          | P.132 |
| Operating the radio             | P.133 |
| Operating the cassette player   | P.137 |
| Operating the CD changer        | P.140 |
| Optimal use of the audio system | P.147 |
| Using the steering switches     | P.149 |

### ■ 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.

### ⚠ 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.

**1** Open/Close**⚠ CAUTION**

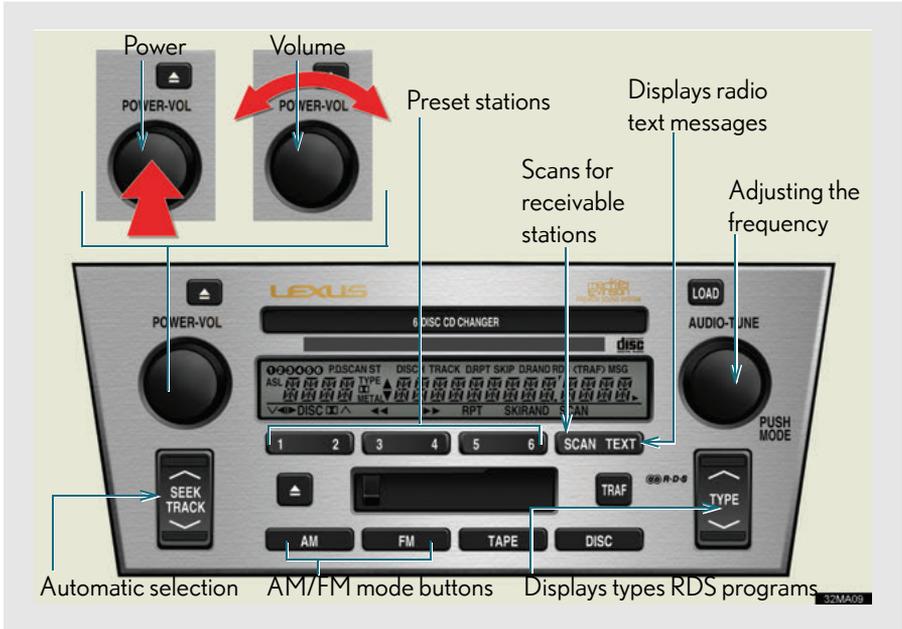
- **When opening or closing the audio door**  
Do not jam your hands in the door.

**⚠ 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.

## 3-2. Using the audio system

### 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.

## 3-2. Using the audio system

### 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  while receiving FM broadcasts.

#### ■ Changing the type of program displayed

Push  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  while receiving radio text messages to redisplay a message.

In case a message is more than a line, hold the . 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

#### ■ Power antenna

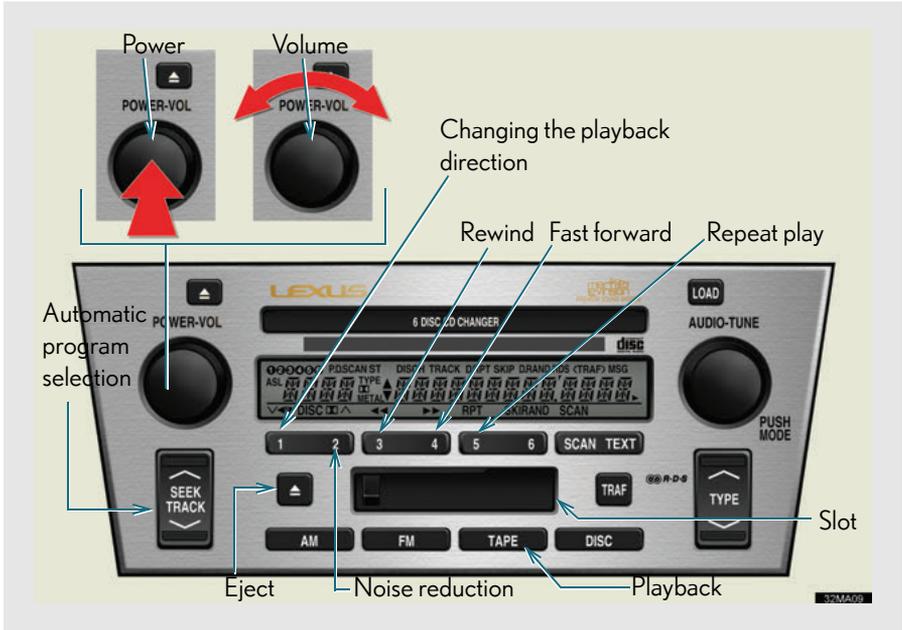
The power antenna automatically extends when the radio mode or RDS is on and retracts when it is off.

 CAUTION

■ **Before extending the antenna**

Confirm that no one is close enough to get injured.

### 3-2. Using the audio system



#### 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.

## 3-2. Using the audio system

### Using Dolby® noise reduction

Push the  (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  (DD) and  (RPT): Push the same button.

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

#### ■ 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**

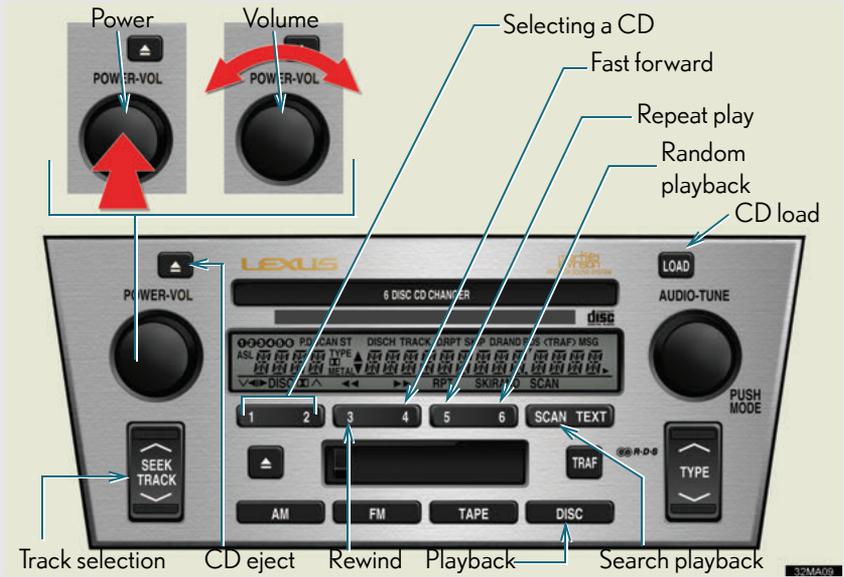
Do not use a cassette tape, if it has been damaged or tangled or if its label is peeling off.

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.

Operable and display parts



## 3-2. Using the audio system

### 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.142)

**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 v 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** (v) 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  (RAND).

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

#### ■ From all CDs

Press and hold the  (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 button

The operation will be canceled automatically.

#### ■ If you accidentally push the for the CD button

Push the  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  (RPT) and  (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.

**■ 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.

### 3-2. Using the audio system



## 3-2. Using 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            | -7 to 7  | Low              | High              |
| Midrange             | MID            | -7 to 7  |                  |                   |
| Treble               | TRE            | -7 to 7  |                  |                   |
| 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.

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.

## 3-2. Using the audio system

### Adjusting the volume

Push  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  until you hear a beep.

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

### Selecting a radio station

**STEP 1** Push  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  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.

### 3-3. Turning on interior lights

## Interior lights list



- 1 Interior light and front personal lights (→P.153, P.154)
- 2 Door courtesy lights
- 3 Ignition 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.

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

After all the 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.153)

#### Personal lights

**1** On/Off



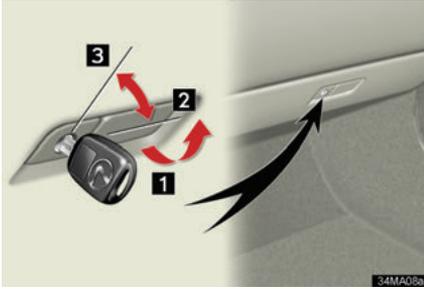
### 3-4. Storage

## Storage features



- 1 Glove box
- 2 Rear 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

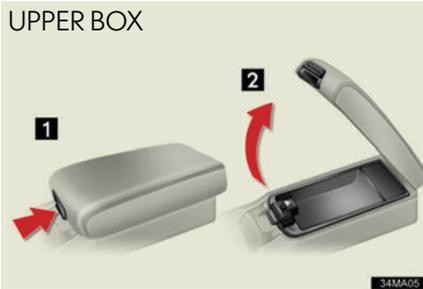
The glove box can be operated with the master key.

## Glove box light

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

## Rear console box

### UPPER BOX

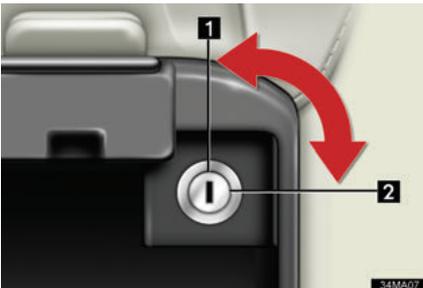


- 1 Press the button to release the lock
- 2 Lift armrest to open

### LOWER BOX



- 1 Pull up on lower tab
- 2 Lift to open



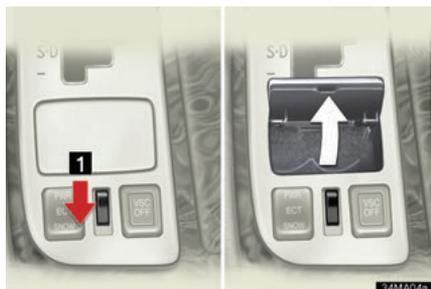
- 1 Unlock the lower box
- 2 Lock the lower box

The lower box can be operated with the master key.

### ■ Loop of wire to unlock the trunk lid

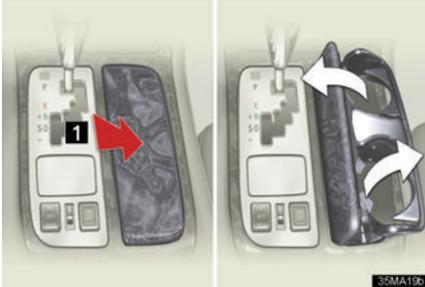
The loop of wire to unlock the trunk lid is in the rear console box. (→P.288)

## Coin box



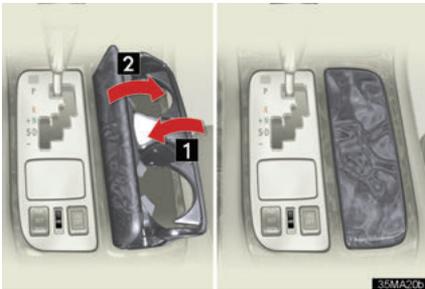
**1** Open

## Cup holder



### 1 Open

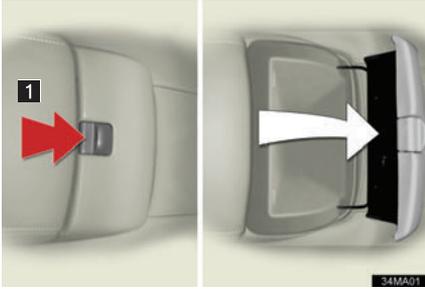
Press down and release the right side of the cup holder lid to open.



### 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, 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.

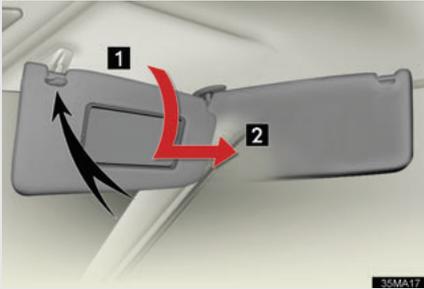
### NOTICE

#### ■ During hot weather

Do not leave anything flammable or non-heat resistant inside the vehicle (lighter, glasses, etc.)

### 3-5. Other interior features

## 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.

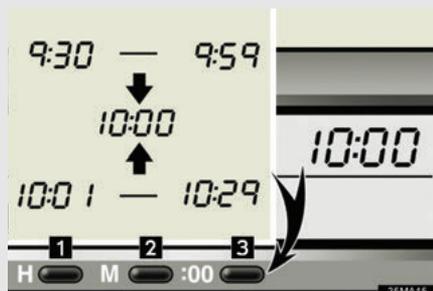
#### NOTICE

**■ To prevent battery from being discharged**

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

### 3-5. Other interior features

## Clock



**1** H button : Adjusts the hour.

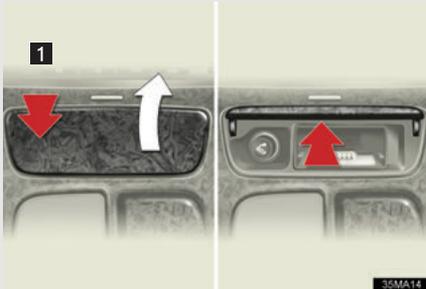
**2** M button : Adjusts the minutes.

**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

### 3-5. Other interior features

## Ashtray



**1** 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.

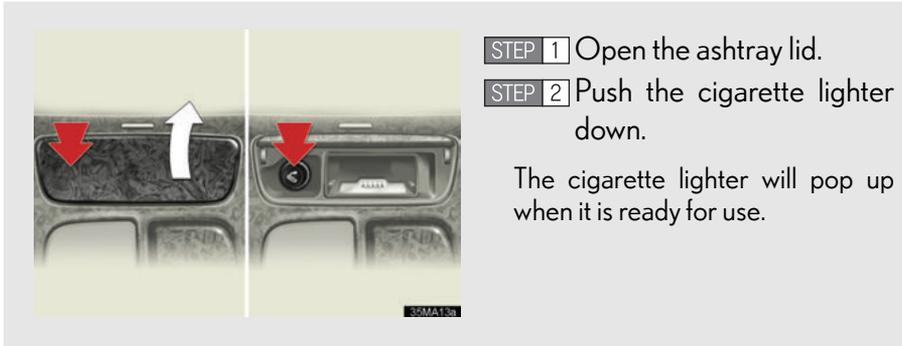
#### NOTICE

#### ■ 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.

### 3-5. Other interior features

## Cigarette lighter



#### ■ Cigarette lighter operating conditions

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

#### ⚠ CAUTION

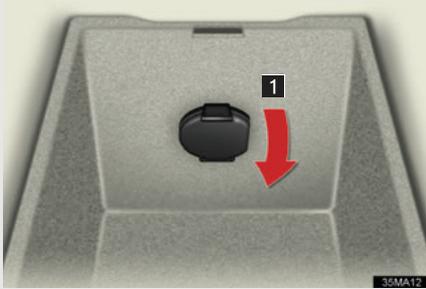
##### ■ To avoid burns and fires

- 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.

### 3-5. Other interior features

## Power outlet

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



1 Open

#### ■ Power outlet operating conditions

The ignition switch must be turned to ACC or ON.

#### NOTICE

#### ■ To avoid damaging the accessory outlet

Close the accessory socket lid when the accessory socket is not in use.

Foreign objects or liquids that enter the accessory socket may cause a short circuit.

#### ■ To prevent the fuse from being blown

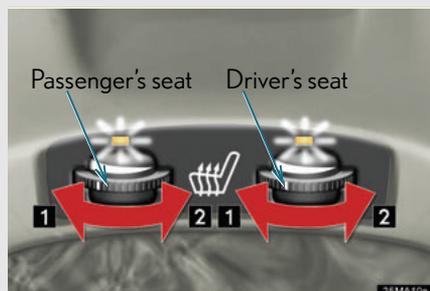
Do not use an accessory that uses more than 12 V 10 A.

#### ■ To prevent the battery from being discharged

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

### 3-5. Other interior features

## 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 ignition 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
- 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.

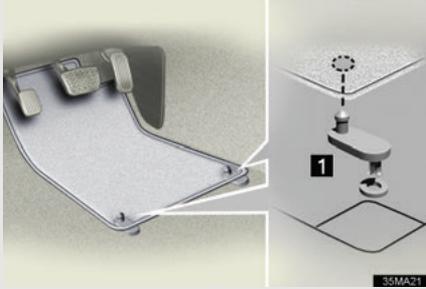
##### ■ To prevent battery discharged

Turn the switches off when the engine is not running.

### 3-5. Other interior features

## Floor mats

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



- 1 Secure the mat with the lock clips.

#### CAUTION

##### When inserting the floor mat

Make sure the floor mat is properly placed on the floor carpet. If the floor mat slips and interferes with the movement of the pedals during driving, it may cause an accident.

## 3-5. Other interior features

### Trunk features

#### ■ Cargo hooks



Cargo hooks are provided for securing loose items.

#### ■ First-aid kit space



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

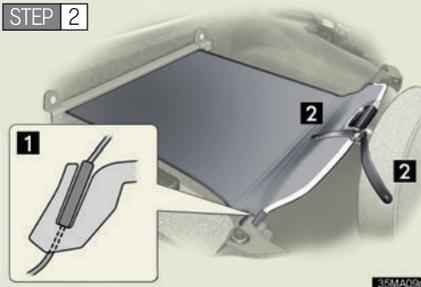
## ■ Luggage cover

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.

### 3-5. Other interior features

## 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**<sup>®</sup> Universal Transceiver) is manufactured under license from HomeLink<sup>®</sup>.

### Programming the HomeLink<sup>®</sup> (for U.S.A. owners)

The HomeLink<sup>®</sup> 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

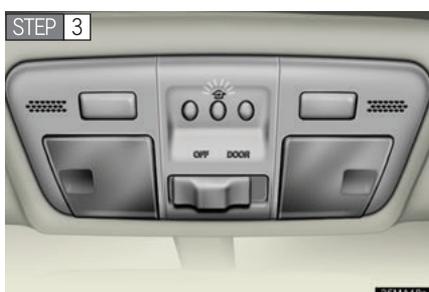
### ■ Programming the HomeLink<sup>®</sup>

**STEP 1** Point the remote control for the device 1 to 3 in. (25 to 75 mm) from the HomeLink<sup>®</sup> control buttons.

Keep the indicator light on the HomeLink<sup>®</sup> in view while programming.



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



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<sup>®</sup> control buttons.  
Keep the indicator light on the HomeLink<sup>®</sup> in view while programming.
- STEP 2** Press and hold the selected HomeLink<sup>®</sup> button.
- STEP 3** Repeatedly press and release (cycle) the device remote control button every two seconds until step **4** is complete.
- STEP 4** When the indicator light on the HomeLink<sup>®</sup> compatible transceiver starts flashing rapidly, release the buttons.
- STEP 5** Press the newly programmed HomeLink<sup>®</sup> button to see if it operates the device.
- STEP 6** Repeat the steps for each remaining HomeLink<sup>®</sup> 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<sup>®</sup> 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 that may be 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<sup>®</sup> 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.



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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 cham-  
ois.
- 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 pol-  
ish begin to deteriorate. A good way to determine this, is by check-  
ing 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 win-  
dows or door weather seals of your vehicle.

Before entering the automatic car wash, check that the fuel filler door on your vehi-  
cle 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 point.

**■ 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

■ **Exhaust gases 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.

# 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

Be careful not to splash water or spill liquid on the floor.

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 "Owner's Manual Supplement/Scheduled Maintenance".

### ■ Do-it-yourself maintenance (→P.190)

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", "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.207)
- 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.

## 4-2. Maintenance

### General maintenance

Listed below are the general maintenance items that should be performed at the interval specified in the 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.207)                |
| Brake fluid               | • At the correct level? (→P.204)            |
| Engine coolant            | • At the correct level? (→P.202)            |
| Engine oil                | • At the correct level? (→P.198)            |
| Exhaust system            | • No fumes or strange sound?                |
| Power steering fluid      | • At the correct level? (→P.206)            |
| Radiator/condenser/ hoses | • Not blocked with foreign matter? (→P.204) |
| Washer fluid              | • Sufficient? (→P.211)                      |

## Vehicle interior

| Items                                   | Check points   |
|---|--|
| Accelerator pedal                       | <ul style="list-style-type: none"> <li>• Moves smoothly (without uneven pedal effort or catching)?</li> </ul>  |
| Automatic transmission "Park" mechanism | <ul style="list-style-type: none"> <li>• Can hold the vehicle securely on a incline with the selector lever in "P"?</li> </ul>   |
| Brakes                                  | <ul style="list-style-type: none"> <li>• Not pull to one side when applied?</li> <li>• Loss of brake effectiveness?</li> <li>• Spongy feeling brake pedal?</li> <li>• Pedal almost touches floor?</li> </ul> |
| Brake pedal                             | <ul style="list-style-type: none"> <li>• Does it have appropriate clearance and correct amount of free play?</li> </ul>  |
| Head restraints                         | <ul style="list-style-type: none"> <li>• Move smoothly and lock securely?</li> </ul>   |
| Indicators/buzzers                      | <ul style="list-style-type: none"> <li>• Function properly?</li> </ul>   |
| Lights                                  | <ul style="list-style-type: none"> <li>• Do all the lights come on?</li> <li>• Headlights aimed correctly? (→P.240)</li> </ul>   |
| Parking brake                           | <ul style="list-style-type: none"> <li>• Moves smoothly?</li> <li>• Can hold the vehicle securely on a incline?</li> </ul>   |
| Seats                                   | <ul style="list-style-type: none"> <li>• The seat controls operate properly?</li> </ul>  |
| Seat belts                              | <ul style="list-style-type: none"> <li>• Does the seat belt system operate smoothly?</li> <li>• Are the belts undamaged?</li> </ul>  |
| Steering wheel                          | <ul style="list-style-type: none"> <li>• Moves smoothly?</li> <li>• Has correct free play?</li> <li>• No strange noise?</li> </ul>   |

## Vehicle exterior

| Items       | Check points   |
|-------------|--|
| Door/ trunk | <ul style="list-style-type: none"> <li>• Do they operate smoothly?</li> <li>• Do the locks work properly?</li> </ul>   |
| Engine hood | <ul style="list-style-type: none"> <li>• Does the hood latch and lock work properly?</li> </ul>  |
| Fluid leaks | <ul style="list-style-type: none"> <li>• Are there any leaks when the vehicle is parked?</li> </ul>  |
| Tire        | <ul style="list-style-type: none"> <li>• Is the inflation pressure correct? (→P.219)</li> <li>• Are tire surfaces worn or damaged? (→P.212)</li> <li>• Do the tires need to be rotated according to the maintenance schedule? (→P.212)</li> <li>• Are the wheel lug nuts loose?</li> </ul> |

# 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.

## 4-3. Do-it-yourself maintenance

### 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<br>(→P.207)    | <ul style="list-style-type: none"><li>• Warm water</li><li>• Baking soda</li><li>• Grease</li><li>• Conventional wrench<br/>(for terminal clamp bolts)</li></ul>   |
| Blade type fuses<br>(→P.230)     | <ul style="list-style-type: none"><li>• Fuse with same amperage rating as original</li></ul>   |
| Brake fluid level<br>(→P.204)    | <ul style="list-style-type: none"><li>• FMVSS No.116 DOT 3 or SAE J1703 brake fluid</li><li>• Rag or paper towel</li><li>• Funnel (used only for adding fluid)</li></ul>   |
| Cartridge type fuses<br>(→P.238) | <ul style="list-style-type: none"><li>• Genuine Lexus fuse or equivalent with same amperage rating as original</li></ul>   |
| Engine air filter                | <ul style="list-style-type: none"><li>• Genuine Lexus engine air filter or equivalent</li></ul>  |
| Engine coolant level<br>(→P.202) | <ul style="list-style-type: none"><li>• “Toyota Super Long Life Coolant” or similar high quality ethylene glycol based non-silicate, non-amine, non-nitrate 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).</li><li>• Funnel (used only for adding coolant)</li></ul> |
| Engine oil level<br>(→P.198)     | <ul style="list-style-type: none"><li>• “Toyota Genuine Motor Oil” or equivalent</li><li>• Rag or paper towel</li><li>• Funnel (used only for adding oil)</li></ul>  |
| Headlight aim<br>(→P.240)        | <ul style="list-style-type: none"><li>• Phillips-head screwdriver</li></ul>  |

| Do-it-yourself maintenance             | Parts and tools   |
|--|---|
| Power steering fluid level<br>(→P.206) | <ul style="list-style-type: none"> <li>• Automatic transmission fluid DEXRON® II or III</li> <li>• Rag or paper towel</li> <li>• Funnel (used only for adding fluid)</li> </ul> |
| Radiator and condenser<br>(→P.204)     | —   |
| Tire inflation pressure<br>(→P.219)    | <ul style="list-style-type: none"> <li>• Tire pressure gauge</li> <li>• Compressed air source</li> </ul>  |
| Washer fluid<br>(→P.211)               | <ul style="list-style-type: none"> <li>• Washer fluid containing antifreeze (for winter use)</li> <li>• Funnel (used only for adding washer fluid)</li> </ul>                   |

### CAUTION

The engine compartment contains many mechanisms and fluids that may 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 ignition is off. With the ignition 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.197)

#### ■ When working on or under the vehicle:

- Do not get under the vehicle with just the jack supporting it. Always use automotive jack stands or other solid supports.
- 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 or excessive engine wear due to dirt in the air may cause.

Also, a backfire could cause a fire in the engine compartment.

## 4-3. Do-it-yourself maintenance

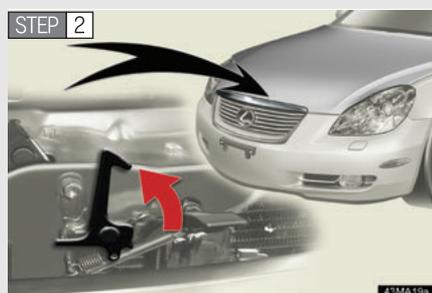
### Hood

Lift the hood to inspect engine components and fluid levels.



Pull the hood release lever.

The hood will pop up slightly.



Lift the hood catch and lift the hood.

#### CAUTION

##### ■ Pre-driving check

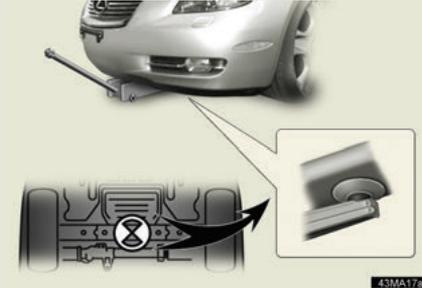
Check that the hood is fully closed and locked.

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.

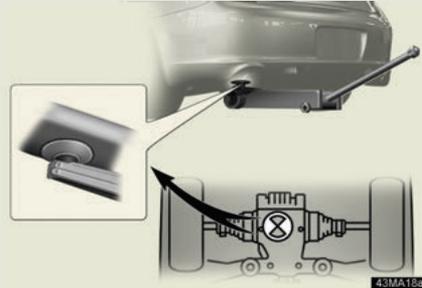
## 4-3. Do-it-yourself maintenance

### Positioning the jack

When raising your vehicle, position the jack correctly. Improper placement may damage your vehicle or cause injury.



► FRONT



► REAR

 **CAUTION**

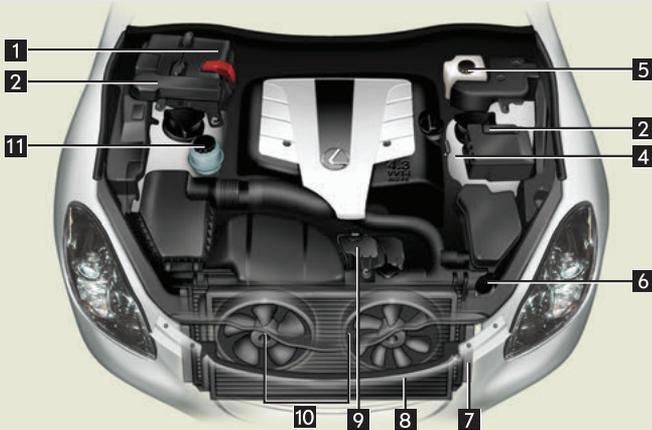
■ **When raising your vehicle:**

Make sure to observe the following to reduce the possibility of death or serious injury.

- Do not put any part of your body or get underneath the vehicle supported only by the 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 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 jack properly at the jack point.  
Raising the vehicle with an improperly positioned jack will damage the vehicle or may allow the vehicle to fall off the 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 jack.

## 4-3. Do-it-yourself maintenance

### Engine compartment



- |                                    |                 |  |          |
|------------------------------------|-----------------|--|----------|
| <b>1</b> Battery                   | (→P.207)        | <b>7</b> Radiator                        | (→P.204) |
| <b>2</b> Fuse box                  | (→P.230, P.238) | <b>8</b> Condenser                       | (→P.204) |
| <b>3</b> Engine oil filler cap     | (→P.198)        | <b>9</b> Engine coolant reservoir        | (→P.202) |
| <b>4</b> Engine oil level dipstick | (→P.198)        | <b>10</b> Electric cooling fans          |          |
| <b>5</b> Brake fluid reservoir     | (→P.204)        | <b>11</b> Power steering fluid reservoir | (→P.206) |
| <b>6</b> Washer fluid tank         | (→P.211)        |  |          |

## Engine oil

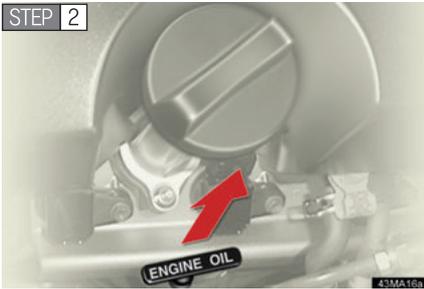
With the engine at operating temperature and turned off, check the oil level on the dipstick.

### ■ Checking the engine oil

**STEP 1** Park the vehicle on level ground.

After turning off the engine, wait a few minutes for the oil to drain back into the bottom of the engine.

**STEP 2**

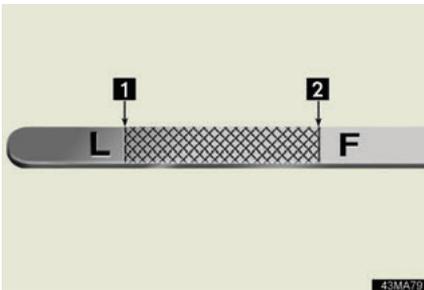


Hold a rag under the end and pull the dipstick out.

**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.

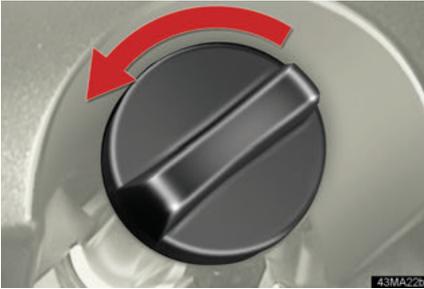


**1** Low

**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.

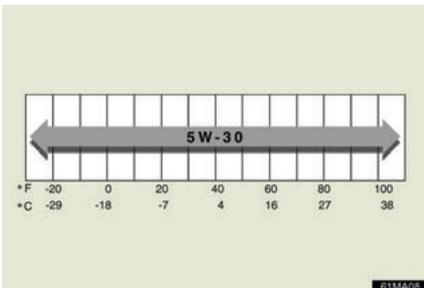
**STEP 2** Add engine oil slowly, checking the dipstick.

**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 is not available, SAE 10W-30 may be used. However, it should be replaced with 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

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### ■ Resetting the engine oil replacement reminder (U.S.A. only)

**STEP 1** Turn the ignition key to the "OFF" position with the odometer reading shown. (→P.91)

**STEP 2** Turn the ignition key 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**

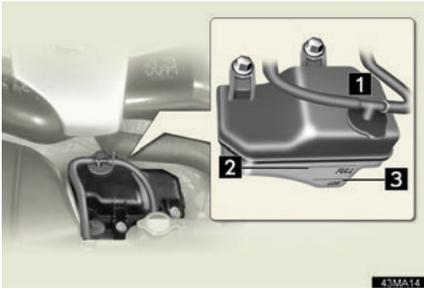
Check the oil level regularly.

**■ 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**

Do not use plain water alone.

**■ 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 ignition 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

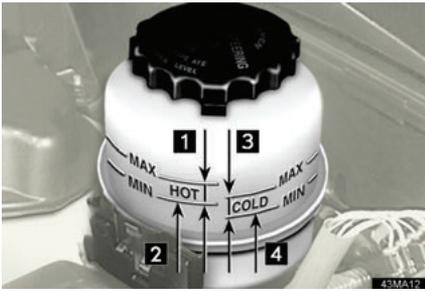
It is normal for the brake fluid level to go down slightly as the brake pads wear or when the fluid level in the accumulator is high.

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**

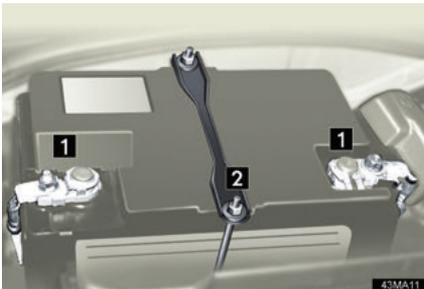
Check the steering box case, vane pump and hose connections for leaks or damage.

**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 safely 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



Add washer fluid it approaches the NORMAL (maximum) line.

### 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.

## 4-3. Do-it-yourself maintenance

# Tires

Replace the tires when the tread wear indicators show.

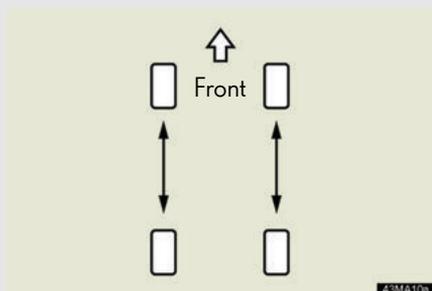
### ■ Checking tires



- 1 New tread
- 2 Tread wear indicator
- 3 Worn tread

The location of tread wear 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.

Lexus recommends tire rotation per the maintenance schedule to equalize tire wear and extend tire life.

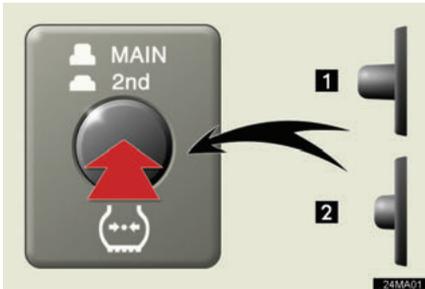
## Setting the tire pressure warning system

To activate the tire pressure warning system, it is necessary to register the ID code of the sender on the selector switch. Once registered, change the setting position each time you replace the tires and wheels. Re-registration is no required.

### ■ Registering the ID code

ID codes should be registered by Lexus dealer. 2 sets of ID codes can be registered. The code of the tires originally installed on the vehicle is registered on the switch at "MAIN". Have a new tires set with new tire pressure sensors registered at "2nd" by Lexus dealer.

### ■ Selecting the position



1 Main position

2 2nd position

The selector switch is located on the right side in the glove box.

### ■ When to replace your vehicle's tires

If either of the following occurs, the tire should be replaced:

- Tire damage such as cuts, splits, cracks deep enough to expose the fabric, or bulges indicating internal damage
- If a tire often goes flat or cannot be properly repaired due to the size or location of a cut or other damage

If you are not sure, see your Lexus dealer.

### ■ When replacing tires and wheels

Be sure to install tire pressure sensors on the wheels.

The ways to set up are below.

- Remove the sensor from the old wheel and install it to the new wheel.
- Keep the same wheel with tire pressure sensor and replace the tire alone.
- Use a new wheel and sensor. You have to register an ID code for a new sensor.

### ■ When purchasing new tires

Consult your Lexus dealer.

### ■ Tire life

Any tire over 6 years old must be checked by a qualified technician even if it has never or seldom 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

Generally, low profile tires will wear more rapidly and tire grip performance will be reduced on snowy and/or icy roads when compared to high aspect ratio tires, etc. Be sure to use snow tires or tire chains on snowy and/or icy roads and drive carefully at the speed appropriate for road and weather conditions.

### ■ Tire selection

When replacing a tire, use a tire of the same size and construction, and the same or greater maximum load as the originally installed tires.

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.

As for the Gross Axle Weight Ratings (GAWR), see the Certification Label.  
(→P.301)

### ■ Types of tires

#### 1. Summer tires:

Summer tires are high-speed capability 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, we recommend using snow tires. If 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 restrictions. Snow tires should be installed on all wheels. Installing snow tires on the rear wheels only can lead to an excessive difference in road grip capability between the front and rear tires which could cause loss of vehicle control. (→P.115)

### ■ Certification for the tire pressure warning system (for vehicles sold in 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.

#### NOTICE:

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 tire pressure warning 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.

 CAUTION**■ Take care that the selector switch is set correctly**

If the tires whose ID code is registered at “MAIN” are used, the system will not work correctly if the selector switch is set to “2nd”. If the tires whose ID code is registered at “2nd” are stored nearby, the system will mistakenly detect their tire inflation pressure (and vice versa).

**■ When inspecting or replacing tires**

Observe the following instructions, as failure to do so may cause dangerous handling characteristics resulting in loss of control and could cause death or serious injury.

- Do not mix radial, bias belted, or bias-ply tires on your vehicle, or use tires other than the manufacturer’s recommended size.
- Do not mix summer and all season tires on your vehicle.
- Do not use tires other than the manufacturer’s designated tires, and never mix tires or wheels of different size to the originals.
- Do not mix run-flat and standard tires.
- Consult your Lexus dealer before purchasing new tires. If you change from run-flat tires to standard tires, a spare tire should also be purchased.

 NOTICE**■ Low profile tires**

Low profile tires like P245/40R18 93V, 245/40ZR18 or 245/40R18 93Y 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 the tire inflation pressure is low, the tire may cause greater damage. Check the tire inflation pressure on a regular basis. (→P.219)
- Avoid driving onto high, sharp-edged objects and other road hazards. If this cannot be avoided, be careful and drive as slowly as possible.

### NOTICE

#### ■ **When replacing the tires and wheels**

Have your Lexus dealer replace the tires, wheels, sensors and register ID codes.

If you need sensors, you can purchase them from your Lexus dealer.

#### ■ **If tire pressures become low while driving (vehicles with standard tires)**

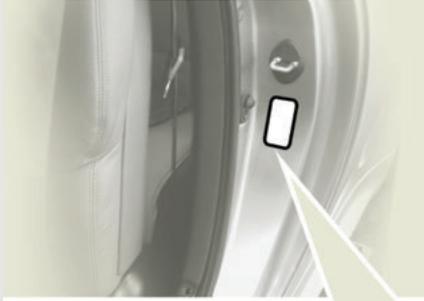
Do not continue driving, your tires and/or wheels may be ruined.

## 4-3. Do-it-yourself maintenance

### Tire inflation pressure

#### Tire inflation pressure

The recommended cold tire inflation pressure and tire size is displayed on the tire and loading information label.



► Type A&B

| TIRE AND LOADING INFORMATION  |            |                    | INFORMATION SUR LES PNEUS ET LE CHARGEMENT   |            |                              |
|---|------------|--------------------|--|------------|------------------------------|
| SEATING CAPACITY: TOTAL X<br>FRONT X REAR X<br>The combined weight of occupants and cargo should never exceed XXX kg or XXX lb. |            |                    | NOMBRE DE PLACES ASSISES : TOTAL X<br>AVANT X ARRIERE X<br>Le poids total des occupants et du chargement ne doit jamais être supérieur à XXX kg ou XXX lb. |            |                              |
| TIRE  | SIZE       | COLD TIRE PRESSURE | PNEUS  | DIMENSION  | PRESSON DE SOUFFLAGE À FROID |
| FRONT   | XXX/XX/XX  | XXXkPa,XXPSI       | AVANT  | XXX/XX/XX  | XXXkPa,XXPSI                 |
| REAR  | XXX/XX/XX  | XXXkPa,XXPSI       | ARRIÈRE  | XXX/XX/XX  | XXXkPa,XXPSI                 |
| SPARE   | TXXX/XX/XX | XXXkPa,XXPSI       | SECOURS  | TXXX/XX/XX | XXXkPa,XXPSI                 |
| SEE OWNER'S MANUAL FOR ADDITIONAL INFORMATION   |            |                    | POUR DE PLUS AMPLES INFORMATIONS, VOIR LE MANUEL DU PROPRIÉTAIRE   |            |                              |

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► Type C

| TIRE AND LOADING INFORMATION  |           |                    | INFORMATION SUR LES PNEUS ET LE CHARGEMENT   |           |                              |
|---|-----------|--------------------|--|-----------|------------------------------|
| SEATING CAPACITY: TOTAL X<br>FRONT X REAR X<br>The combined weight of occupants and cargo should never exceed XXX kg or XXX lb. |           |                    | NOMBRE DE PLACES ASSISES : TOTAL X<br>AVANT X ARRIERE X<br>Le poids total des occupants et du chargement ne doit jamais être supérieur à XXX kg ou XXX lb. |           |                              |
| TIRE  | SIZE      | COLD TIRE PRESSURE | PNEUS  | DIMENSION | PRESSON DE SOUFFLAGE À FROID |
| FRONT   | XXX/XX/XX | XXXkPa,XXPSI       | AVANT  | XXX/XX/XX | XXXkPa,XXPSI                 |
| REAR  | XXX/XX/XX | XXXkPa,XXPSI       | ARRIÈRE  | XXX/XX/XX | XXXkPa,XXPSI                 |
| SPARE   | NONE      | NONE               | SECOURS  | AUCUN     | AUCUN                        |
| SEE OWNER'S MANUAL FOR ADDITIONAL INFORMATION   |           |                    | POUR DE PLUS AMPLES INFORMATIONS, VOIR LE MANUEL DU PROPRIÉTAIRE   |           |                              |

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Recommended cold tire inflation pressure

| Tire size      | Inflation pressure psi (kPa, kgf/cm <sup>2</sup> 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<sup>2</sup> 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<sup>2</sup>, 4.2 bar). (→P.307)

### ■ 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 an overheated tire
- Poor sealing of the tire bead
- Wheel deformation and/or tire separation
- A greater possibility of tire damage from road hazards

# Wheels

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:

- A wheel of a different size or type;
- Used wheels; or
- Bent wheels that have been straightened.

### ■ Aluminum wheel precautions

- Use only Lexus wheel nuts and a wrench designed for your aluminum wheels if you have rotated, repaired or changed 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.

**⚠ CAUTION****■ When replacing wheels**

- Do not use wheels other than the manufacturer's recommended wheel or wheel size, 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****■ To avoid tire pressure sensor malfunction**

- Do not use non-genuine wheels.
- Using differing tire types with genuine wheels may also cause a malfunction.

**■ Wheel ornaments**

Do not remove the wheel ornaments. Doing so may cause damage to the clips inside the ornaments.

## 4-3. Do-it-yourself maintenance

### Air conditioning filter

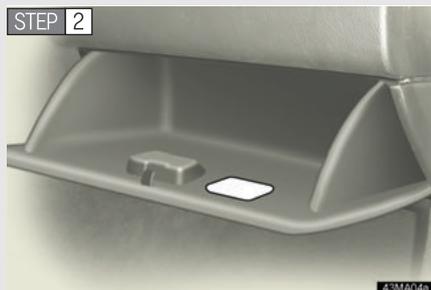
The air conditioning filter must be changed regularly to maintain air conditioning efficiency.

#### ■ How to replace the air conditioning filter

**STEP 1** Turn the ignition switch to LOCK.

**STEP 2**

Open the glove box.

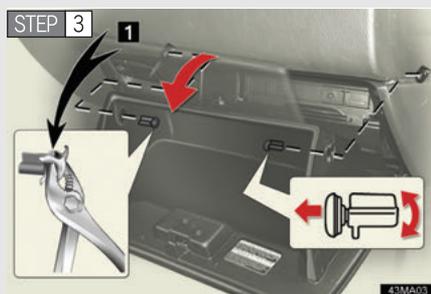


**STEP 3**

**1**

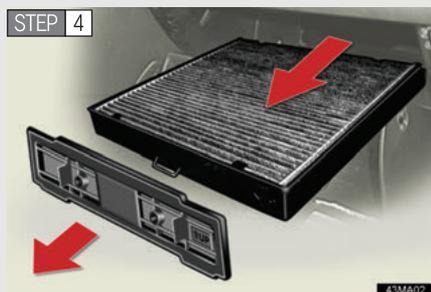
**1** Soft cloth

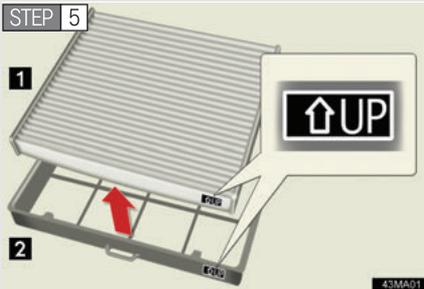
Use pliers to remove the 2 pins installed on the upper part of the glove box and lower the glove box.



**STEP 4**

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 “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.

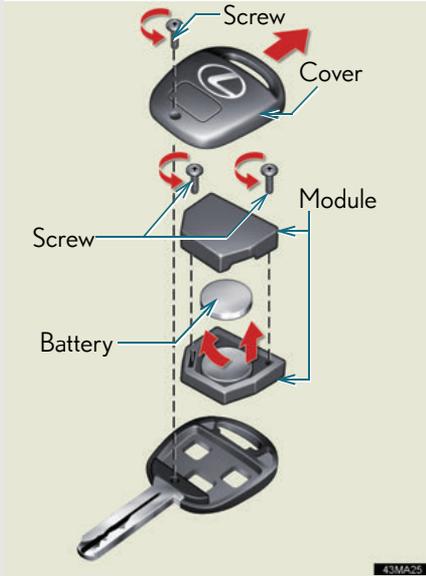
## 4-3. Do-it-yourself maintenance

# 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.

### ■ 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 clean 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.

## 4-3. Do-it-yourself maintenance

### 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.



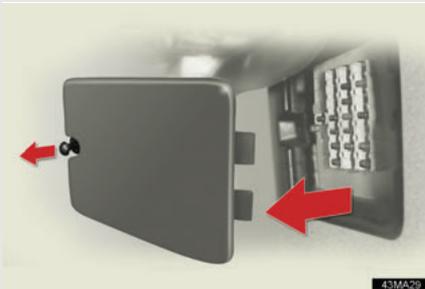
► Fuse box inside the engine compartment

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

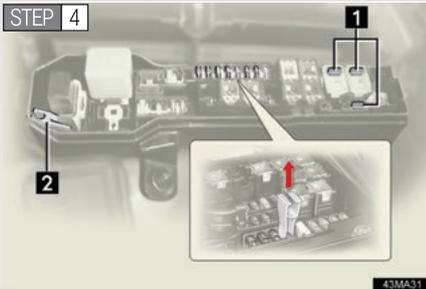
Pull the knob and remove the lid.



- ▶ 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.233)



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.242)

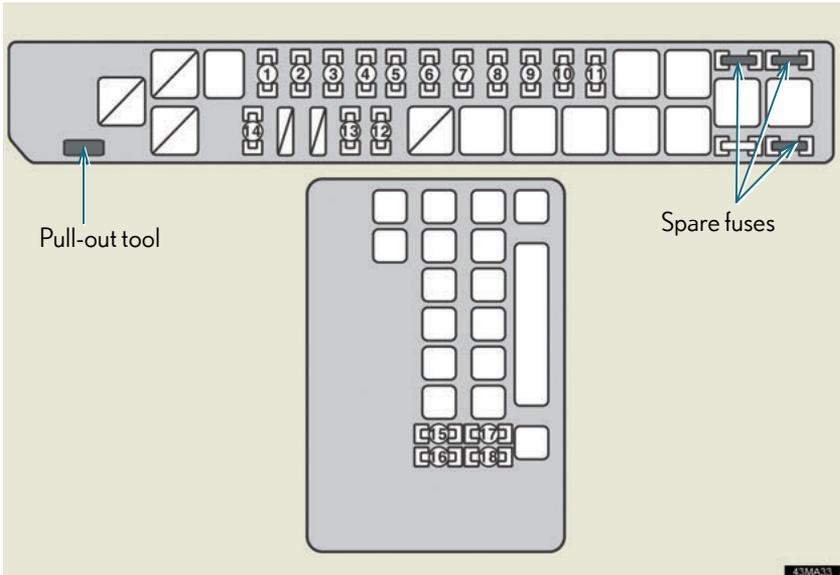
- 2 Blown fuse

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



## 4-3. Do-it-yourself maintenance

|   | 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 | TEL        | 5      | Telephone  |
| ⑩ | ALT-S      | 5      | Charging system  |
| ⑪ | EFI        | 25     | Multiport fuel injection system/sequential multiport fuel injection system   |
| ⑫ | H-LP R LWR | 15     | Right-hand headlight (low beam)  |
| ⑬ | H-LP L LWR | 15     | Left-hand headlight (low beam)   |
| ⑭ | H-LP UPR   | 20     | Headlight (high beam), Headlight switch  |
| ⑮ | STARTER    | 7.5    | Starting system  |
| ⑯ | EFI NO.2   | 10     | Multiport fuel injection system/sequential multiport fuel injection system, Emission control system  |
| ⑰ | 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 |
| ⑱ | 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



43MA35

|   | 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, Ignition 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.

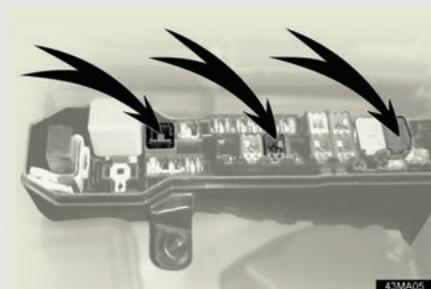
- Never use a fuse of higher amperage rating, or use any other object in place of a fuse.
- Always use genuine Lexus fuses, or equivalent. Do not use copper wire or other objects, even as a temporary measure.
- Do not modify the fuse or the fuse box.

## 4-3. Do-it-yourself maintenance

### 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

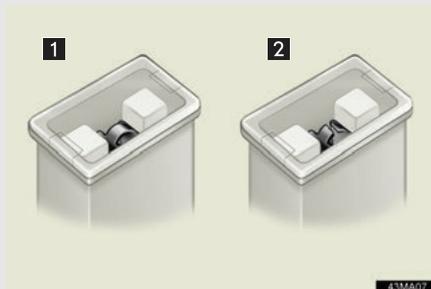


▶ Fuse box inside the engine compartment



▶ 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.

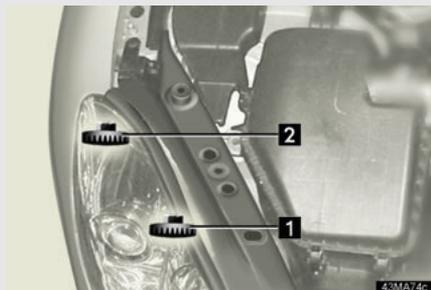
** NOTICE****■ Before replacing fuses**

Have the cause of electrical overload determined and repaired by your Lexus dealer.

## 4-3. Do-it-yourself maintenance

### 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.

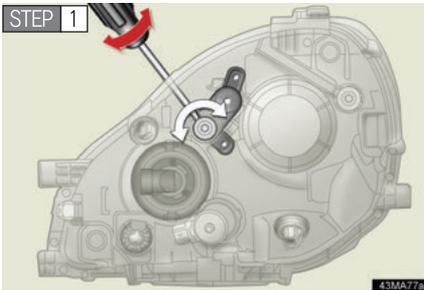
**STEP 4** Bounce the vehicle several times.

**STEP 5** Check the headlight aim.

## Adjusting the headlight aim

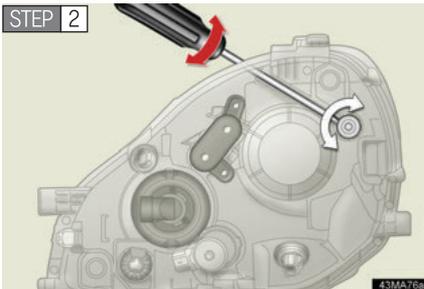


- 1 For adjusting bolt A
- 2 For adjusting bolt B



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.

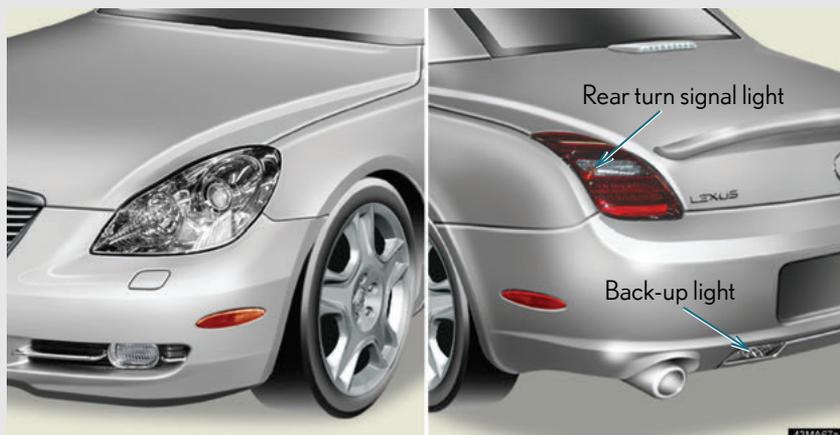
## 4-3. Do-it-yourself maintenance

### 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.308)

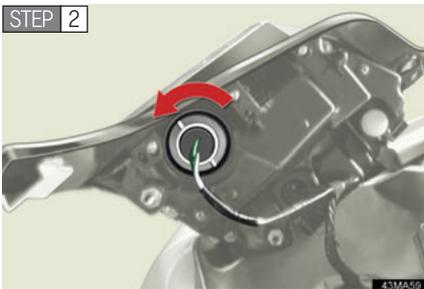


## Replacing light bulbs

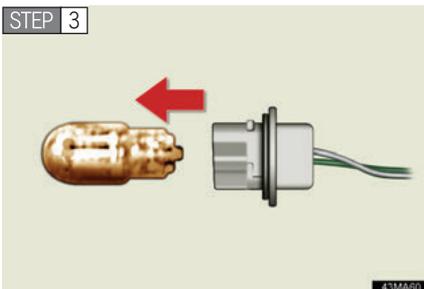
### Rear turn signal lights



Use a wrench.



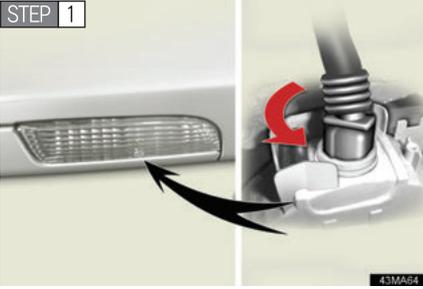
Turn counterclockwise.



Remove the bulb.

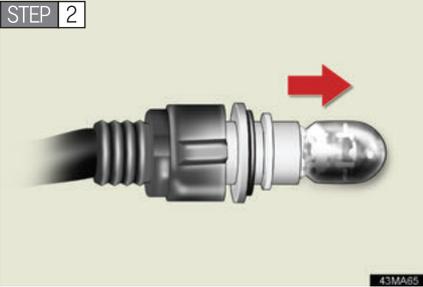
■ Back-up light

STEP 1



Turn counterclockwise.

STEP 2



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 tail, stop and high mounted stop lights consist of a number of LEDs. If any LED burns out, we recommend you take your vehicle to your Lexus dealer to have the light inspected as soon as possible.

### ■ 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 voltage socket while the headlights are turned on. The sockets are usually charged with 20,000 volts. Touching the socket may cause severe injury due to electric shock.

**⚠ NOTICE**

**■ To prevent damage or fire**

- Make sure the bulb is fully seated and locked to prevent damage or fire.
- If your hands touch the glass portion of the bulb, wipe the bulb with alcohol before use.

## When trouble arises

# 5

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## 5-1. Essential information

### 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.250)

If they are damaged, use a towing dolly or flat bed truck.

#### ■ Before towing

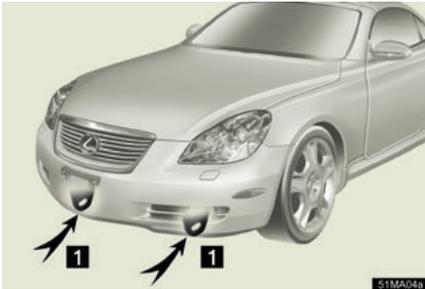
In the following cases, there may be a problem with your transmission. Contact your Lexus dealer before towing.

- 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 eye-let(s). This should only be 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 ignition 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.

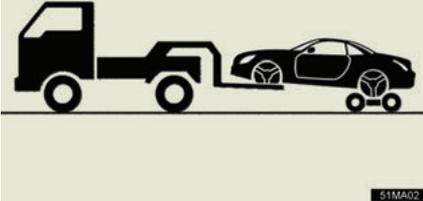
### ⚠ NOTICE

#### ■ 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**

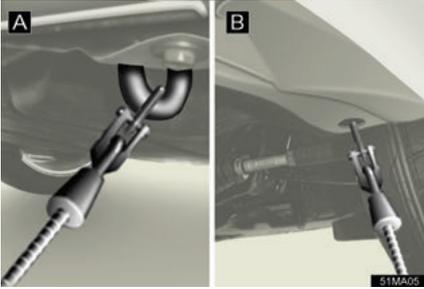
- Do not tow with the key removed or in the LOCK position. The steering lock mechanism is not strong enough to hold the front wheels straight.
- When raising the vehicle, ensure adequate ground clearance for towing at the opposite end of the raised vehicle. Without adequate clearance, the vehicle could 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.

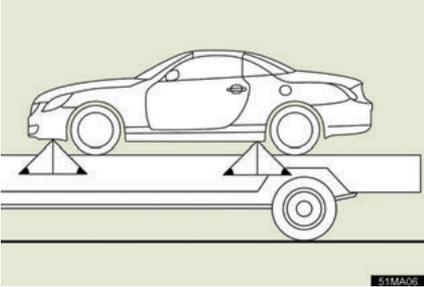
## Transporting your Lexus on a flat bed truck



If your Lexus is transported by a flat bed, it should be tied down at locations A and B as shown.

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

## 5-1. Essential information

# 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 ignition 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 it 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.

### 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 VSC Electronic Control Unit (ECU) may contain another EDR. In case the VSC or Brake Assist system is activated, or the lateral acceleration is beyond a certain value, this device may record some or all of the following information:

- Yaw rate
- Lateral and longitudinal acceleration
- Steering wheel angle
- Vehicle speed
- To what extent the accelerator pedal was depressed
- To what extent the brake pedal was applied
- To what extent the ECU controlled the rotation speed of each of the 4 wheels
- VSC 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 of law

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

## 5-2. Steps to take in an emergency 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   |
|---|---|
| <br>(U.S.A)<br><br>(Canada) | <b>Brake system warning light (Warning buzzer)*</b> <ul style="list-style-type: none"><li>• Low brake fluid</li><li>• Malfunction in the brake booster system</li></ul> 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   |
|---|---|
|  | <p><b>Charging system warning light</b></p> <p>Indicates a malfunction in the vehicle's charging system.</p>  |
|  | <p><b>Low engine oil pressure warning light</b></p> <p>Indicates an abnormal level of engine oil pressure.</p> <p>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.</p> |

**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  |
|---|--|
| <br>(U.S.A)<br><br>(Canada)     | <p><b>Malfunction indicator lamp</b></p> <p>Indicates a malfunction in:</p> <ul style="list-style-type: none"> <li>• The electronic engine control system;</li> <li>• The electronic throttle control system; or</li> <li>• The electronic automatic transmission control system.</li> </ul> |
|    | <p><b>SRS warning light</b></p> <p>Indicates a malfunction in:</p> <ul style="list-style-type: none"> <li>• The SRS airbag system; or</li> <li>• The seat belt pretension system.</li> </ul>   |
|    | <p><b>Adaptive front lighting system off indicator light</b></p> <p>Indicates a malfunction in:</p> <ul style="list-style-type: none"> <li>• The adaptive front lighting system; or</li> <li>• The headlight automatic leveling system if the light flashes.</li> </ul>                      |
| <br>(U.S.A)<br><br>(Canada) | <p><b>ABS warning light</b></p> <p>Indicates a malfunction in:</p> <ul style="list-style-type: none"> <li>• The ABS; or</li> <li>• The brake assist system.</li> </ul> <p>If both the ABS and brake system warning light remain on (→P.258)</p>  |

| Warning lights  | Warning light/Details  |
|---|--|
|  | <p><b>Vehicle stability control system warning light</b></p> <p>Indicates a malfunction in the VSC system.</p>   |
|  | <p><b>Low tire pressure warning light (Warning chimes)</b></p> <ul style="list-style-type: none"> <li>• Low tire pressure</li> <li>• Malfunction in the low tire pressure warning system</li> </ul>        |
|  | <p><b>Rear light failure warning light</b></p> <p>Indicates a malfunction in:</p> <ul style="list-style-type: none"> <li>• Tail light;</li> <li>• Stop light; or</li> <li>• Licence plate light</li> </ul> |

### ■ 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.

■ **If the low tire pressure warning light comes on or blinks, or chimes sound**

**Vehicles with run-flat tires**

- If the warning light is on, the tire inflation pressure is lower than specified

**STEP 1** Stop your vehicle at a safe place as soon as possible.

**STEP 2** Check and adjust the tire inflation pressure as specified on the tire and loading information label. (→P.219) If the warning light comes on or blinks even after tire inflation pressure adjustment, it is probable that you have a flat tire.

If you cannot verify the tire inflation pressure soon, go to the nearest Lexus dealer or authorized tire dealer at the moderate speed.

**STEP 3** If any tire must be replaced, see “If you have a flat tire” (→P.268)

- If the warning light blinks and chimes sound every few minutes, the tire inflation pressure is very low

**STEP 1** Decrease your speed as soon as possible and call a Lexus dealer, Roadside Assistance or Customer Service Assistance (→ Inside front cover)

**STEP 2** Take your vehicle to the nearest Lexus dealer or authorized tire dealer at the moderate speed.

**STEP 3** The tire must be replaced. (→P.212)  
Do not use the repaired tire.

### Vehicles with standard tires

- If the warning light is on, the tire inflation pressure is lower than specified

**STEP 1** Stop your vehicle at a safe place as soon as possible.

**STEP 2** Check and adjust the tire inflation pressure as specified on the tire and loading information label. (→P.219) If the warning light comes on or blinks even after tire inflation pressure adjustment, it is probable that you have a flat tire.

**STEP 3** If the tire goes flat, change to the spare tire. (→P.270)

The warning light remains on even if the spare tire is mounted.

- If the low tire pressure warning light blinks and chimes sound every few minutes, the tire inflation pressure is very low

**STEP 1** Stop your vehicle at a safe place as soon as possible.

**STEP 2** Check the tire inflation pressure and locate the deflated tire. (→P.219)

**STEP 3** Change to the spare tire. (→P.272)

The warning light remains on even if the spare tire is mounted.

#### ■ The low tire pressure warning light may turn on due to natural causes

The 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.

#### ■ If the low tire pressure warning light does not go off more than 15 minutes after air is put in the deflated tire

If there is no flat tire, the system might be malfunctioning. Consult your Lexus dealer.

#### ■ If you drive at high speed with the tires not inflated at the designated pressure for high speed driving

The low tire pressure warning light may turn on. In this case, decreasing the speed will turn off the warning light.

### ■ System malfunction

The warning light comes on if the system does not work properly.

The system will be disabled in the conditions below:

- Electric devices or facilities using similar radio wave frequencies are nearby.
- If a radio set at similar frequencies is in use.
- Much snowflakes or ice gets on the vehicle, in particular, around the wheels or wheel housings.
- The sensor battery is expired.
- The tires not equipped with tire pressure sensor are used.
- Although the tires are equipped with the tire pressure sensors, the selector switch is set to other tire setting (→P.213)

 CAUTION**■ When the low tire pressure warning light comes on, or the warning light blinks and chimes sound (Vehicles with run-flat tires)**

As soon as possible, take your vehicle to the nearest Lexus dealer, tire dealer or gas station if the light is on, or the nearest Lexus dealer or authorized tire dealer if the light is blinking, observing the following precautions:

- Decelerate to the most appropriate speed that conditions permit. Do not drive over 55 mph (90 km/h). If the warning light is blinking, do not drive for longer than 100 miles (160 km).
- Avoid abrupt maneuvering and braking.  
If the vehicle's tires deteriorate, you could lose control of the vehicle, resulting in death or serious injury.

**■ When the low tire pressure warning light comes on, or the warning light blinks and chimes sound (Vehicles with standard tires)**

- Decrease speed as soon as possible.
- Avoid abrupt maneuvering and braking.  
If the vehicle's tires deteriorate, you could lose control of the vehicle, resulting in death or serious injury.

**■ If a blowout or sudden air leakage should occur**

The low tire pressure warning system may not activate immediately.

 NOTICE**■ In the event of a flat or deflated tire (Vehicles with run-flat tires)**

- Take care not to drive over curb-stones or holes in the road, as deflated tire pressure affects tire cushion performance. The wheels, tires, body, suspension and other components could be damaged.
- If a run-flat tire goes flat, your ground clearance is reduced. Avoid driving over obstacles, and drive slowly on rough, unpaved roads and speed bumps.  
In addition, do not attempt to use an automatic car wash, as the vehicle may get caught.

**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                                       |
|---|--|---|
|    | <p><b>Low engine oil level warning light</b></p> <p>Low level of engine oil</p>  | <p>Check the level of engine oil and add if necessary.</p>  |
|    | <p><b>Open door warning light (Warning buzzer)*<sup>1</sup></b></p> <p>Indicates that a door or trunk lid is not fully closed.</p> | <p>Check that both side doors and trunk lid are closed.</p> |
|    | <p><b>Low fuel level warning light</b></p> <p>Fuel level<br/>(Less than approximately 2.9 gal. [11 L, 2.4 Imp.gal.]</p>            | <p>Refuel the vehicle.</p>                                  |
|  | <p><b>Low washer fluid warning light</b></p> <p>Low level of washer fluid</p>  | <p>Fill the tank.</p>                                       |
| <p><b>MAINT REQD</b><br/>(U.S.A)</p>  | <p><b>Engine oil replacement reminder light</b></p> <p>Indicates when to replace the engine oil.</p>                               | <p>Replace the engine oil.</p>                              |

| Warning lights  | Warning light/Details  | Correction procedures |
|---|--|-----------------------|
|  | <p><b>Driver's seat belt reminder warning light</b><br/> <b>(Warning buzzer)*<sup>2</sup></b><br/> Warns the driver to wear his/her seat belt.</p>                 | Wear the seat belt.   |
|  | <p><b>Front passenger's seat belt reminder warning light</b><br/> <b>(Warning buzzer)*<sup>2</sup></b><br/> Warns the front passenger to wear their seat belt.</p> | Wear the seat belt.   |

\*<sup>1</sup> 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.

\*<sup>2</sup> 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 is placed on the front passenger seat, the front passenger detection sensor may cause the warning light to flash and a chime to sound, even if a passenger is not sitting in the seat.
- If a cushion is placed on the seat, the sensor may not detect a passenger, and the warning light may not operate properly.

#### ■ If the open retractable hardtop warning buzzer sounds

Immediately stop your vehicle and open or close the retractable hardtop fully.

## 5-2. Steps to take in an emergency

### 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 low tire pressure warning light blinks and chimes sound. (→P.261)

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#### ■ In some condition (such as at high temperatures)

You could not continue driving for up to 100miles (160km).

#### ■ 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**

- Have the tires replaced by the nearest Lexus dealer or authorized tire dealer. The tire pressure sensors will be affected by the installation or removal of tires.
- Replace the grommets for the tire pressure sensors as well.

**■ To avoid damaging the tire pressure sensors**

Do not use liquid sealants on flat tires.

## 5-2. Steps to take in an emergency

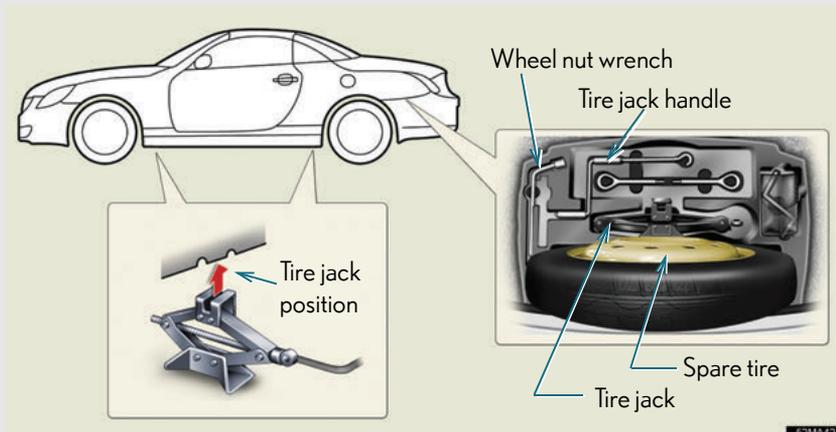
### If you have a flat tire (Vehicles with standard tires)

Remove the flat tire and replace it with the spare provided.

#### ■ Before jacking the vehicle

- Stop the vehicle on a hard, flat 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

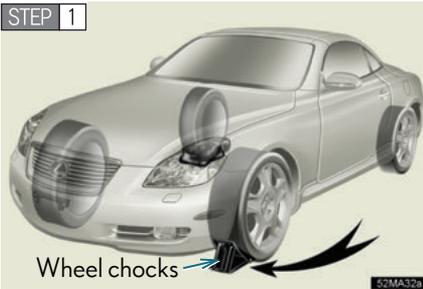
The compact spare tire can be used many times, if necessary. It has tread life of up to 3000 miles (4800 km) depending on road conditions and your driving habits. When tread wear indicators appear on the tire, replace the tire. (→P.212)

### ■ When using the compact spare tire

As the spare tire is not equipped with the tire pressure sensor, low inflation pressure of the spare tire will not be warned.

## Replacing a flat tire

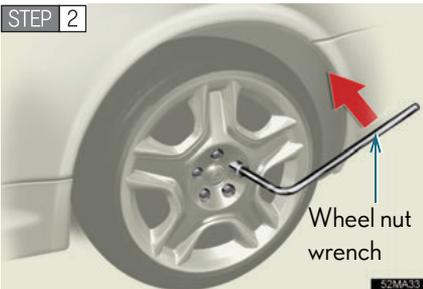
STEP 1



Chock the tires.

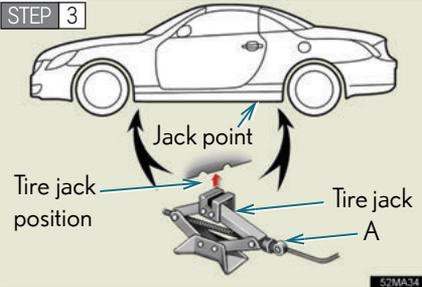
| Flat tire  |                 | Wheel chock positions                      |
|------------|-----------------|--|
| Front tire | Left-hand side  | Behind the rear right-hand side tire       |
|            | Right-hand side | Behind the rear left-hand side tire        |
| Rear tire  | Left-hand side  | In front of the front right-hand side tire |
|            | Right-hand side | In front of the front left-hand side tire  |

STEP 2



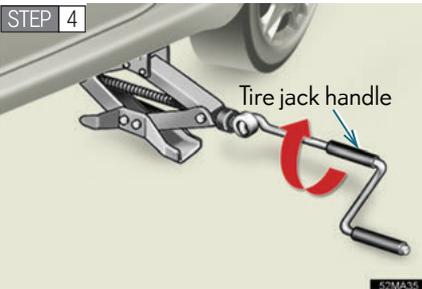
Slightly loosen the nuts (one turn).

STEP 3



Turn the tire jack joint "A" by hand until the jack is in contact with the jack point.

STEP 4



Raise the vehicle until the tire is slightly raised off the ground.

STEP 5

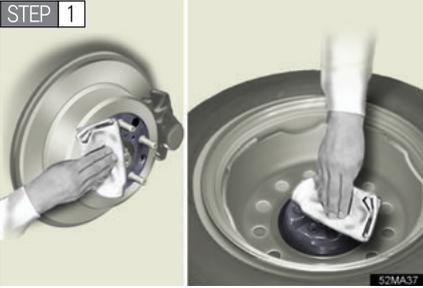


Remove all the nuts and the tire.

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

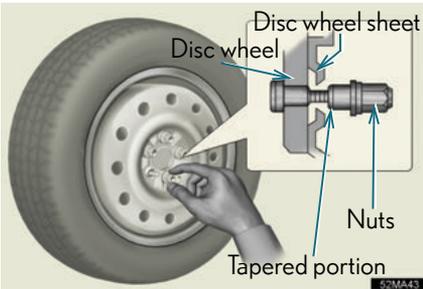


Remove any dirt or foreign matter from the wheel contact surface.

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.

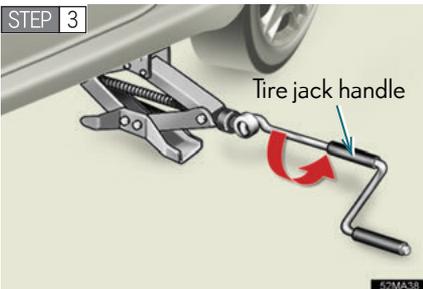
STEP 2

Install the compact spare tire and loosely tighten each nut by hand to approximately the same amount.

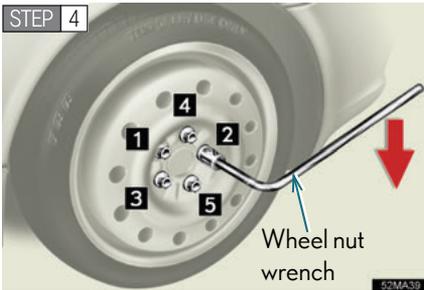


Tighten the nuts until the tapered portion comes into loose contact with the disc wheel sheet.

STEP 3

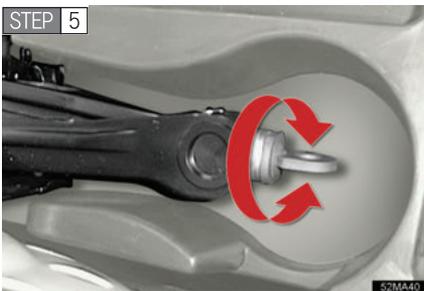


Lower the vehicle.



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)



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

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.

 **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.

**■ 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.

 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.

**■ 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<sup>2</sup>, 4.2 bar).

 NOTICE

■ **When the tires must be repaired or replaced**

- Take the vehicle to the nearest Lexus dealer or authorized tire dealer. The tire pressure sensors will be affected by tire installation or removal.
- Replace the grommets for the tire pressure sensors as well.

■ **To avoid damaging the tire pressure sensors**

- Do not use liquid sealants on flat tires.

## 5-2. Steps to take in an emergency If the engine will not start

If the engine will not start, even though correct starting procedures are being followed (→P.82), 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.82). 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.282)
- 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.282)
- There may be a malfunction in the engine immobilizer system. (→P.43)

## 5-2. Steps to take in an emergency

### 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.

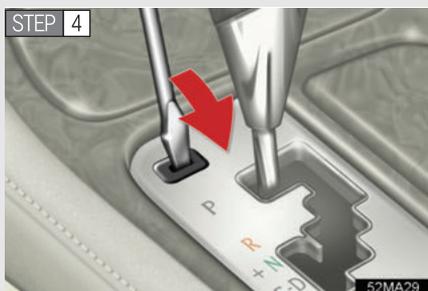
The following steps may be used as an emergency measure to ensure the selector lever can be shifted.

**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.

## 5-2. Steps to take in an emergency

### If you lose your keys

**New keys can be ordered from your Lexus dealer.**

If all the master keys are lost, the on-board computer must also be replaced.

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#### ■ 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.

## 5-2. Steps to take in an emergency

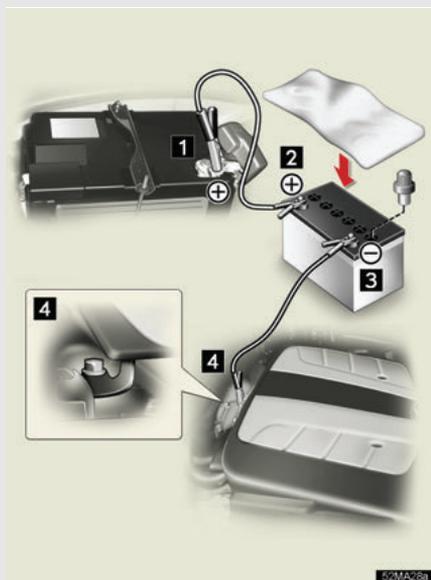
### If the vehicle has a discharged battery

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, Roadside Assistance or Lexus Customer Service Assistance.

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.



If required, remove all vent plugs from the booster battery. Lay a cloth over the open vents on the booster battery. (This helps reduce the explosion hazard, personal injuries and burns.)

- 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.

#### ■ 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**

**To prevent damaging the vehicle**

Do not pull- or push-start the vehicle because the three-way catalytic converter may overheat and become a fire hazard.

**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.

## 5-2. Steps to take in an emergency If your vehicle overheats

### If your engine overheats:

**STEP 1** Stop the vehicle in a safe place and turn off the automatic climate control.

**STEP 2** Check to see if steam is coming out from under the hood.

If you see steam:  
Stop 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**

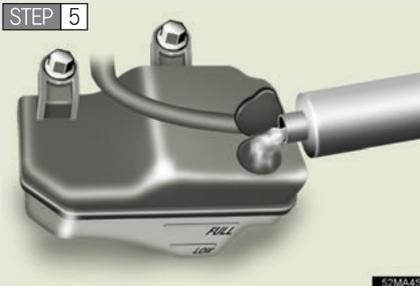


After the engine has cooled down sufficiently, check the level of engine coolant and inspect the radiator core (radiator) for any leaks.

**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.202)

### ■ 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

- 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.

## 5-2. Steps to take in an emergency If the vehicle becomes stuck

Carry out the following procedures if the tires spin or the vehicle becomes stuck in mud, dirt, or snow to the extent that it cannot move.

- Stop the engine. Set the parking brake and put the transmission selector lever in “P”.
- Remove the mud, snow, or sand from around the stuck tire.
- Place wood, stones or some other material to help provide traction under the tires.
- Restart the engine.
- Turn off the traction control system. (→P.108)

### 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.

### 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.

## 5-2. Steps to take in an emergency

### If the retractable hardtop does not close

If the retractable hardtop does not close, check the conditions for the retractable hardtop operating. (→P.35)

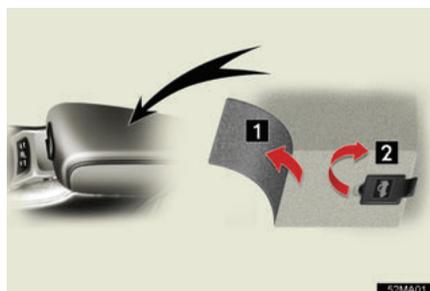
Although the conditions are met, if the retractable hardtop does not close, close it manually following the procedure below.

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.

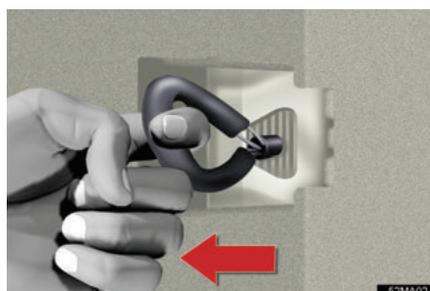
If the opener does not work, follow these procedures.



#### 1 Mat

#### 2 Cover

1. Lift up the mat in the lower box contained in the rear console box.
2. Open the cover.



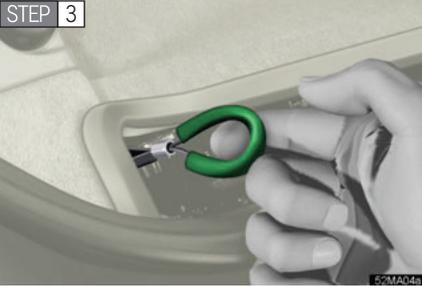
3. Pull the loop of wire.

STEP 2



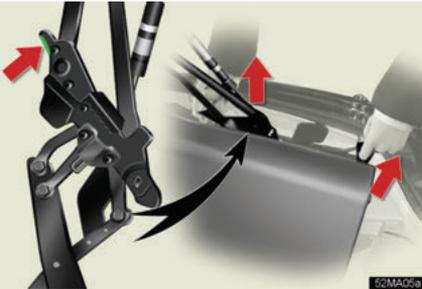
Opening the trunk lid fully

STEP 3



Raising the luggage links

1. Pull out the green loops of wire from openings of the cover on both sides of the trunk.

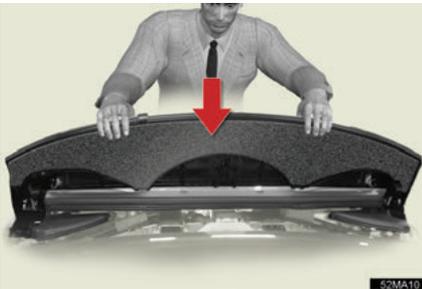
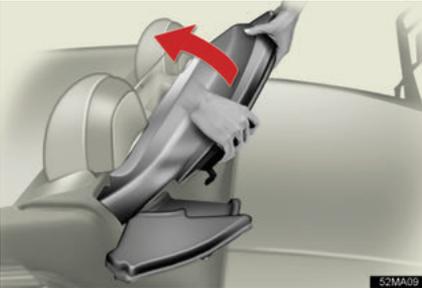
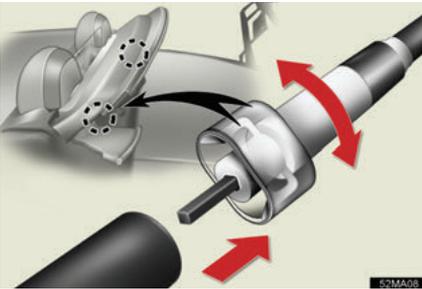
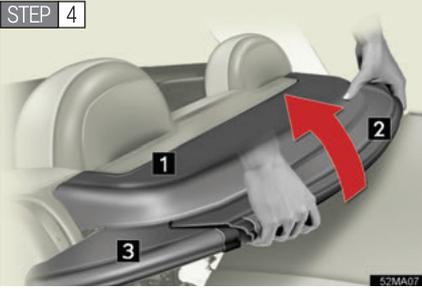


2. While pulling out the loop of wire with one hand, put your other hand over the front side of the luggage link (where green painting is applied).



3. Raise it gradually.

STEP 4



### Raising the package tray

- 1 Main board
- 2 Slide board
- 3 Side board

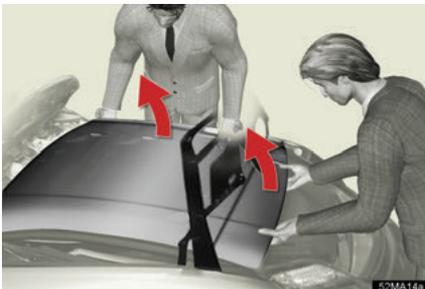
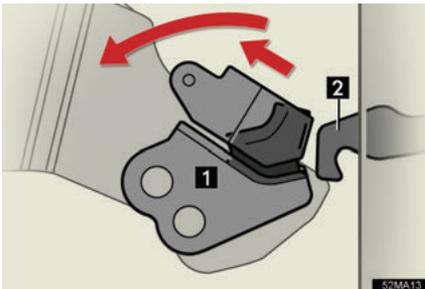
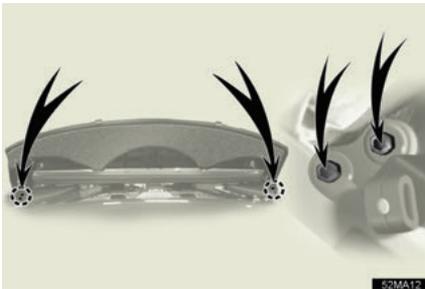
1. Put your hands under the slide board and raise the package tray gradually at 30° to 45°.

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.

STEP 5



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.

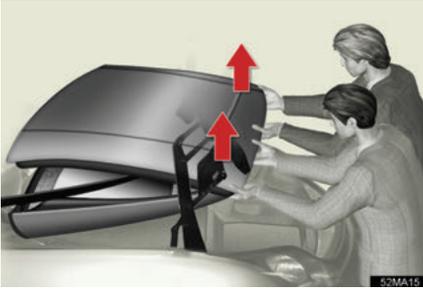
**1** Roof stopper

**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.

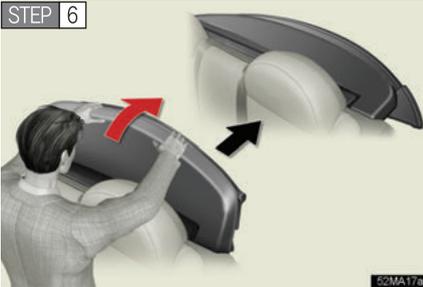
At this time, the person on the side of the vehicle should lift the front of the roof a little and then 2 people should lift it gradually.



5. After the roof is lifted up to a certain point, 2 people lift it on the rear side of the vehicle in unison.



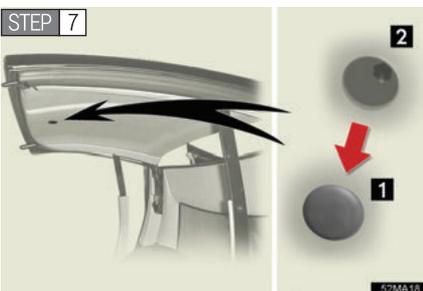
6. Stop lifting the roof in this position.



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.

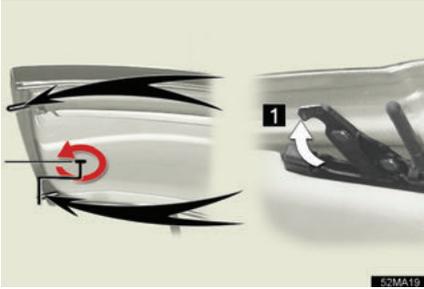


Closing the roof panel fully

**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.



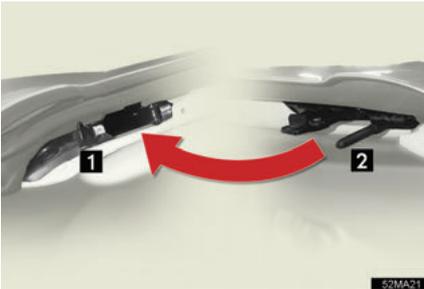
**1** Hook

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.



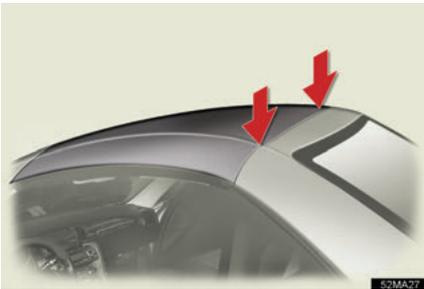
3. Gradually close the roof panel, then the rear window.



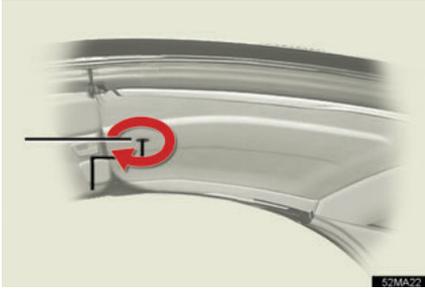
**1** Guide hole

**2** Guide pin

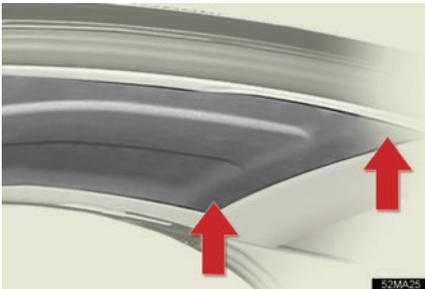
4. Make sure the guide pins at the top of the roof panel are in the guide holes on the windshield.



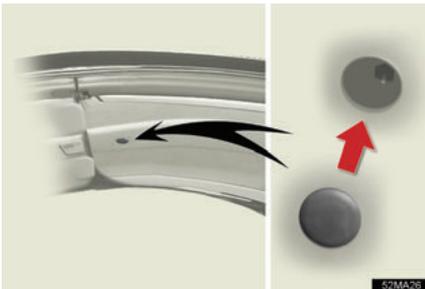
5. Push down in the vicinity of the line separating the roof panel and rear window.



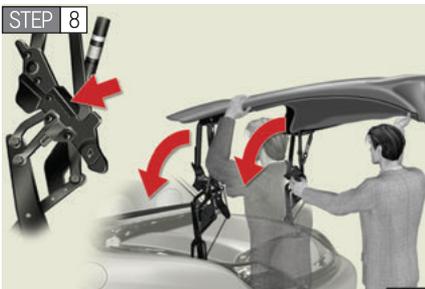
6. Insert the wrench tip into the drive gear shaft and turn the wrench about one turn clockwise as viewed from the bottom.



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 ignition 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 ignition switch on.
- STEP 2** Turn the trunk lid opener main switch from the operative position to the inoperative position (in the cancelled position). (→P.10)
- 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 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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## 6-1. Specifications

### Maintenance data

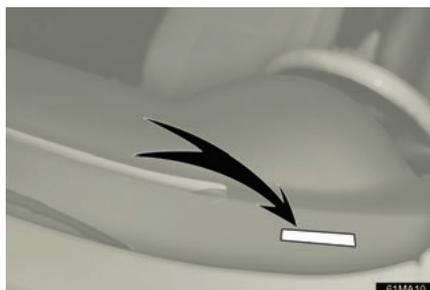
#### Dimensions and weight

|  |   |
|--|---|
| 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 61.0 in. (1550 mm)<br>- Rear 60.4 in. (1535 mm) |
| Vehicle capacity weight<br>(occupants + luggage) | 645 lb. (295 kg)  |

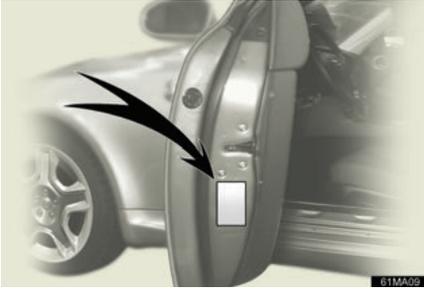
\*Unladen vehicle

#### 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.

## 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 <sup>3</sup> ) |
| Valve clearance<br>(engine cold) | 0.006 - 0.010 in. (0.15 - 0.25 mm)   |
| Intake exhaust                   | 0.010 - 0.014 in. (0.25 - 0.35 mm)   |
| Drive belt tension               | Automatic adjustment                 |

## Fuel

|                    |  |
|--------------------|--|
| Fuel type          | 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**

|   |   |
|---|---|
| <p>Oil capacity<br/>(drain and refill)</p> <p>with filter</p> <p>without filter</p> | <p>5.5 qt. (5.2 L, 4.6 Imp.qt.)</p> <p>4.9 qt. (4.6 L, 4.0 Imp.qt.)</p>   |
| <p>Oil grade</p>  | <p>ILSAC multigrade engine oil</p>  |
| <p>Recommended oil viscosity</p>  | <p>Use Lexus approved “Toyota Genuine Motor Oil” or equivalent to satisfy the above grade and following viscosity.</p> <div data-bbox="452 662 880 954" style="text-align: center;"> <p>Temperature range anticipated before next oil change</p> </div> |

\* 5W-30 is an oil that provides optimal levels of fuel efficiency

Oil viscosity

- “5W” oils are for use in areas where the ambient temperature is -13°F (-25°C) or above. “10W” oils are for areas where the ambient temperature is -4°F (-20°C) or above. Oils with smaller figures are better for engine starting in cold weather and fuel efficiency.
- “XX-30” indicates oil viscosity. Oils with larger figures have better thermostability and are good for high-speed driving.

## Cooling system

|              |  |
|--------------|--|
| Capacity     | 10.5 qt. (9.9 L, 8.7 Imp.qt.)  |
| Coolant type | <p>Use either of the following:</p> <ul style="list-style-type: none"> <li>• “Toyota Super Long Life Coolant”</li> <li>• Similar high quality ethylene glycol based non-silicate, non-amine, non-nitrite, and non-borate coolant with long-life hybrid organic acid technology</li> </ul> <p>Do not use plain water alone.</p> |

## Ignition system

|            |       |                    |
|------------|-------|--------------------|
| Spark plug |       |                    |
| - Make     | DENSO | SK20R11            |
|            | NGK   | IFR6A11            |
| - Gap      |       | 0.043 in. (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 75 W-85 GL-5, Toyota Genuine Dif-  
ferential Synthetic gear oil  
API GL-5 SAE 75W-90  
or their equivalent

## Automatic Transmission

|                                    |   |
|------------------------------------|---|
| Fluid capacity<br>Drain and refill | 1.8 qt. (1.7 L, 1.5 Imp.qt.)                      |
| Fluid type                         | Toyota Genuine ATF WS<br>(ATF JWS3324 or NWS9638) |

## Brakes

|  |                                  |
|--|----------------------------------|
| Pedal clearance <sup>*1</sup>          | 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 <sup>*2</sup> | 7 - 9 clicks                     |
| Fluid type                             | SAE J1703 or FMVSS No. 116 DOT 3 |

<sup>\*1</sup> Minimum pedal clearance when depressed with the force of 44 lbf. (196 N, 20kgf) with the engine running

<sup>\*2</sup> 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<br>(Recommended cold tire inflation pressure) | <p>Driving in normal conditions</p> <p>Front 33 psi (230 kPa, 2.3 kgf/cm<sup>2</sup> or bar)</p> <p>Rear 33 psi (230 kPa, 2.3 kgf/cm<sup>2</sup> or bar)</p> <p>Driving at high speeds above 112 mph (180 km/h)<br/>(in countries where such speeds are permitted by law)</p> <p>Add 12 psi (80 kPa, 0.8 kgf/cm<sup>2</sup>) to the front tires and rear tires. Never exceed the maximum cold tire inflation pressure molded on the tire sidewall.</p> |
| 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<br>(Recommended cold tire inflation pressure) | <p>Driving in normal conditions</p> <p>Front 33 psi (230 kPa, 2.3 kgf/cm<sup>2</sup> or bar)</p> <p>Rear 33 psi (230 kPa, 2.3 kgf/cm<sup>2</sup> or bar)</p> <p>Driving at high speeds above 112 mph (180 km/h)<br/>(in countries where such speeds are permitted by law)</p> <p>Add 12 psi (80 kPa, 0.8 kgf/cm<sup>2</sup>) to the front tires and rear tires. Never exceed the maximum cold tire inflation pressure molded on the tire sidewall.</p> |
| 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<br>(Recommended cold<br>tire inflation pressure) | <p>Driving in normal conditions<br/>           Front 33 psi (230 kPa, 2.3 kgf/cm<sup>2</sup> or bar)<br/>           Rear 33 psi (230 kPa, 2.3 kgf/cm<sup>2</sup> or bar)</p> <p>Driving at high speeds above 112 mph (180 km/h)<br/>           (in countries where such speeds are permitted by law)<br/>           Add 12 psi (80 kPa, 0.8 kgf/cm<sup>2</sup>) to the front tires<br/>           and rear tires. Never exceed the maximum cold tire<br/>           inflation pressure molded on the tire sidewall.</p> |
| 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 <sup>2</sup> , 4.2 bar) |
| Wheel size              | 17 × 4 T  |
| Wheel nut torque        | 76 ft•lbf. (103 N•m, 10.5 kgf•m)                    |

|                    |
|--------------------|
| <b>Light bulbs</b> |
|--------------------|

|          | 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    |
|          | Glove box light                  | —        | 1.2 | 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.

Select premium unleaded gasoline with an Octane Rating of 91 (Research Octane Number 96) or higher for optimum engine performance.

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 premium fuel is not available, you may temporarily use unleaded gasoline with an Octane Rating as low as 87 (Research Octane Number 91).

### ■ 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 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 gasoline quality

- 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.

## 6-1. Specifications

### Tire information

#### Typical tire symbols



61MA11



61MA01

- |   |          |
|---|----------|
| <b>1</b> Tire size                                | (→P.315) |
| <b>2</b> DOT and Tire Identification Number (TIN) | (→P.314) |
| <b>3</b> Location of tread wear indicators        | (→P.212) |

**4** Run-flat tire (RFT) or standard tire (→P.268)

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.212)

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.215)**10** Maximum cold tire inflation pressure (→P.306)

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.

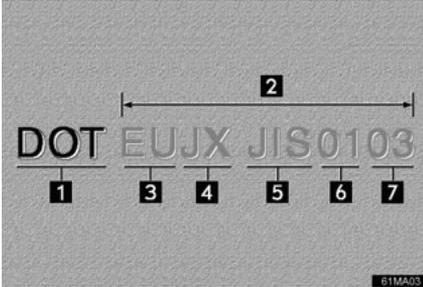
**12** Summer tire or all season tire (→P.215)

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.271)

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)

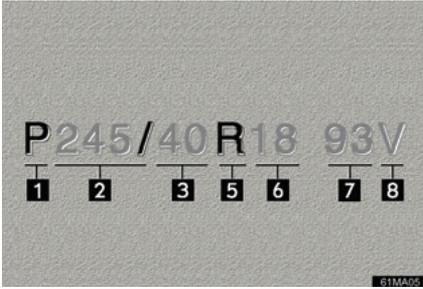


- 1 "DOT" symbol\*
- 2 Tire Identification Number (TIN)
- 3 Tire manufacturer's identification mark
- 4 Tire size code
- 5 Manufacturer's optional tire type code (3 or 4 letters)
- 6 Manufacturing week
- 7 Manufacturing year

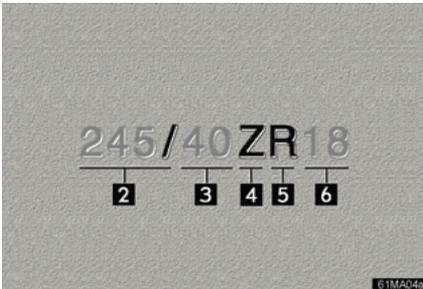
\* The "DOT" symbol certifies that the tire conforms to applicable Federal Motor Vehicle Safety Standards.

## Tire size

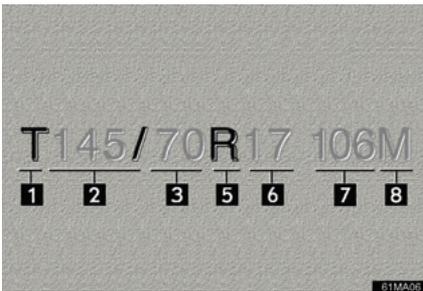
### Typical tire size information



▶ Type A and B



▶ Type C



▶ Spare

The illustration indicates typical tire size.

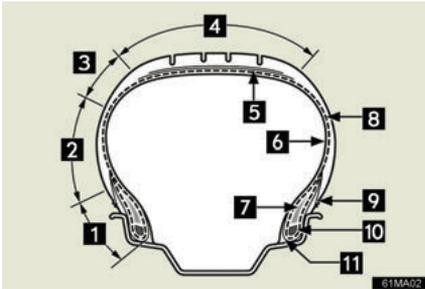
- 1 Tire use (P = Passenger car, T = Temporary use)
- 2 Section width (in millimeters)
- 3 Aspect ratio (tire height to section width)
- 4 Speed category (alphabet with one letter)
- 5 Tire construction code (R = Radial, D = Diagonal)
- 6 Wheel diameter (in inches)
- 7 Load index (2 digits or 3 digits)
- 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: Tread wear 200 Traction AA Temperature A

### ■ Tread wear

The tread wear grade is a comparative rating based on the wear rate of the tire when tested under controlled conditions on a specified government test course.

For example, a tire graded 150 would wear one and a half (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                             | Definition  |
|---|---|
| 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).            |
| 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.   |
| 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 inflation pressure                    | The maximum cold inflated pressure to which a tire may be inflated, shown on the sidewall of the tire.  |
| Maximum loaded vehicle weight                 | The sum of:<br>(a) Curb weight<br>(b) Accessory weight<br>(c) Vehicle capacity weight<br>(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.   |
| 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. |
| Vehicle capacity weight (Total load capacity) | The rated cargo and luggage load plus 150 lb. (68 kg) times the vehicle's designated seating capacity.  |

| Tire related term                | Definition  |
|----------------------------------|---|
| Intended outboard sidewall       | (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<br>(b) The outward facing sidewall of asymmetrical tire that has a particular side that must always face outward when mounted on a vehicle. |
| Occupant distribution            | Distribution of occupants in a vehicle as specified in the third column of Table 1* below.  |
| Recommended inflation pressure   | Cold tire inflation pressure recommended by a manufacturer.   |
| 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 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.   |

\*: 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                       |

## 6-2. Owner's customize

### 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.4) | 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) | 30 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<br>(→P.7)                       | Unlock function   | One turn unlocks the driver's door, second turn unlocks passenger's door | Ask your Lexus dealer |
|   | Shift position detection automatic door lock function                     | ON   | Ask your Lexus dealer |
|   | Shift position detection automatic door unlock function                   | ON   | Ask your Lexus dealer |
| Power windows<br>(→P.32)                  | Integrated door key operation   | ON   | OFF                   |
|   | Wireless remote control integrated operation                              | Open   | OFF                   |
| Alarm<br>(→P.44)                          | Wireless remote control theft deterrent buzzer                            | ON   | OFF                   |
| Automatic light control system<br>(→P.96) | Ambient light sensor sensitivity  | Ask your Lexus dealer  |                       |
|   | Time period before lights turn off  | 30 seconds   | Ask your Lexus dealer |
| Windshield wiper<br>(→P.101)              | Automatic shift from LO speed to intermittent when the vehicle is stopped | ON   | OFF                   |
|   | Automatic wipe during mist operation                                      | ON   | OFF                   |
| Steering column<br>(→P.27)                | 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.13      |
| Power windows                   | Reconnected, replaced or recharged the battery. | P.32      |
| Engine oil replacement reminder | Changed engine oil.                             | P.198     |



## Reporting safety defects for US owners

If you believe that your vehicle has a defect which could cause a crash or could cause death or injury, 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 either call the Auto Safety Hotline toll-free at 1-800-424-9393 (or 366-0123 in Washington, D.C. area) or write to: NHTSA, U.S. Department of Transportation, the Washington, D.C. 20590.

You can also obtain other information about motor vehicle safety from the Hotline.





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## What to do if...

## What to do if...



A tire puncture

P.268/  
270

If you have a flat tire



The engine does not start

P.279

If the engine will not start

P.43

Engine immobilizer system

P.282

If the vehicle has a discharged battery



The transmission selector lever cannot be moved out

P.280

If the transmission selector lever cannot be shifted from P



The engine coolant temperature gauge enters the red zone

P.285

If your vehicle overheats



Steam can be seen coming from under the hood



You lose your key

P.281

If you lose your keys



The battery is discharged

P.282

If the vehicle has a discharged battery



The doors cannot be locked

P.7

Doors



The horn begins to sound

P.44

Alarm



The vehicle is stuck in mud or sand

P.287

If the vehicle becomes stuck



The warning light or indicator light comes on

P.257

If the warning light turns on



■ Warning lights

|                |  |       |                   |  |       |
|----------------|--|-------|-------------------|--|-------|
| <b>VSC</b>     | VSC system warning light                           | P.261 | <b>MAINT REQD</b> | Engine oil replacement reminder light (U.S.A.)     | P.266 |
| <b>BRAKE</b>   | Brake system warning light (U.S.A.)                | P.257 |                   | SRS warning light                                  | P.260 |
|                | Brake system warning light (Canada)                | P.257 |                   | Open door warning light                            | P.266 |
| <b>ABS</b>     | ABS warning light (U.S.A.)                         | P.260 |                   | Malfunction indicator lamp (U.S.A.)                | P.260 |
|                | ABS warning light (Canada)                         | P.260 |                   | Malfunction indicator lamp (Canada)                | P.260 |
| <b>AFS OFF</b> | Adaptive front lighting system off indicator light | P.260 |                   | Charging system warning light                      | P.259 |
|                | Low engine oil level warning light                 | P.266 |                   | Driver's seat belt reminder warning light          | P.267 |
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|                | Low fuel level warning light                       | P.266 |                   | Rear light failure warning light                   | P.261 |
|                | Low tire pressure warning light                    | P.261 |                   | Low engine oil pressure warning light              | P.259 |

## GAS STATION INFORMATION



Trunk opener

P.10



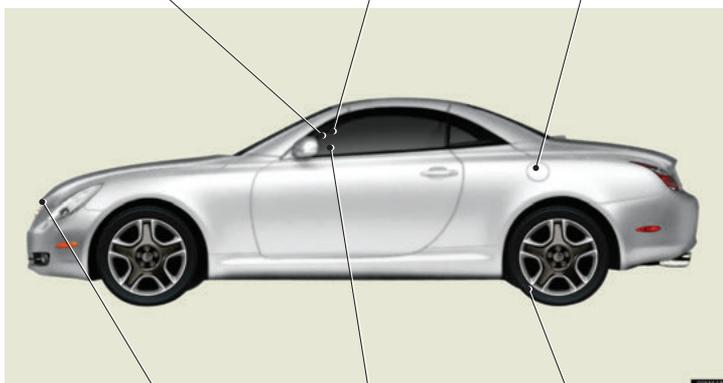
Hood lock release lever

P.194



Fuel filler door

P.39



Auxiliary catch lever

P.194

Fuel filler door opener

P.39

Tire inflation pressure

P.219



|  |  |  |       |
|--|--|--|-------|
| Fuel tank capacity                     | 19.8 gal. (75 L, 16.5 Imp.gal.)  | P.301  |       |
| Fuel type                              | Unleaded gasoline only   | P.301  |       |
| Cold tire inflation pressure           | P245/40R18 93V<br>245/40R18 93Y<br>245/40ZR18  | psi (kPa, kgf/cm <sup>2</sup> or bar)<br>33 (230, 2.3)<br>33 (230, 2.3)<br>33 (230, 2.3) | P.306 |
| Engine oil capacity (Drain and refill) | With filler<br>Without filler  | qt. (L, Imp.qt.)<br>5.5 (5.2, 4.6)<br>4.9 (4.6, 4.0)                                     | P.302 |
| Engine oil type                        | Toyota Genuine Motor Oil or equivalent<br>Oil grade: ILSAC multigrade engine oil<br>Recommended oil viscosity: SAE-5W-30 | P.302  |       |



### Your Lexus dealer

Your Lexus dealer will provide quality maintenance and any other assistance you may require.

If there is not a Lexus dealer near you, please call the following number:

#### ■ U.S. OWNERS

- In the U.S. mainland or Canada:

Lexus Roadside Assistance

**1-800-25-LEXUS** or **1-800-255-3987** (Toll-Free)

- In Hawaii:

Servco Automotive Roadside Assistance/Customer Services

**1-800-25-LEXUS** or **1-800-255-3987** (Toll-Free)

#### ■ CANADIAN OWNERS

- In Canada or the U.S. mainland:

Lexus Roadside Assistance/Customer Service

**1-800-26-LEXUS** or **1-800-265-3987** (Toll-Free)

Please access our **websites** for further information.

- The U.S. mainland: [www.lexus.com](http://www.lexus.com)
- Hawaii: [www.servcolexus.com](http://www.servcolexus.com)
- Canada: [www.lexus.ca](http://www.lexus.ca)

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