



2008

**LS 600h L**

OWNER'S MANUAL



2008

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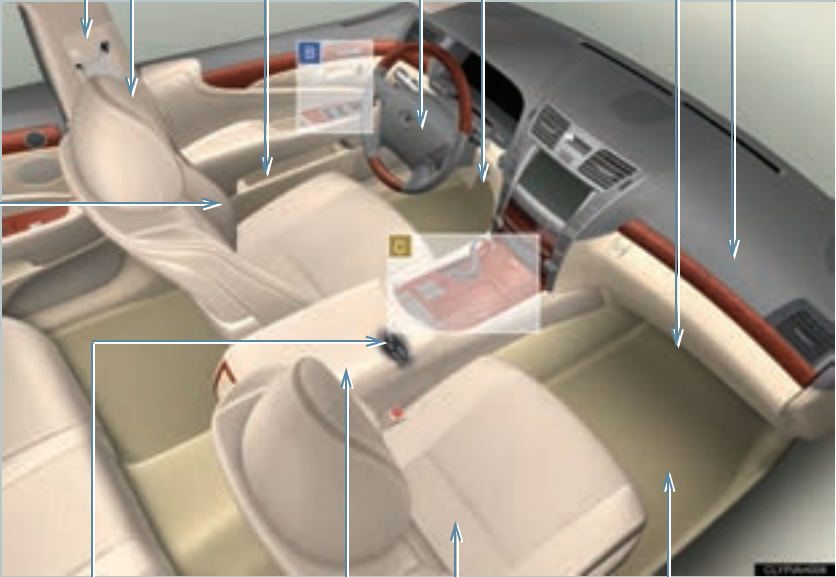
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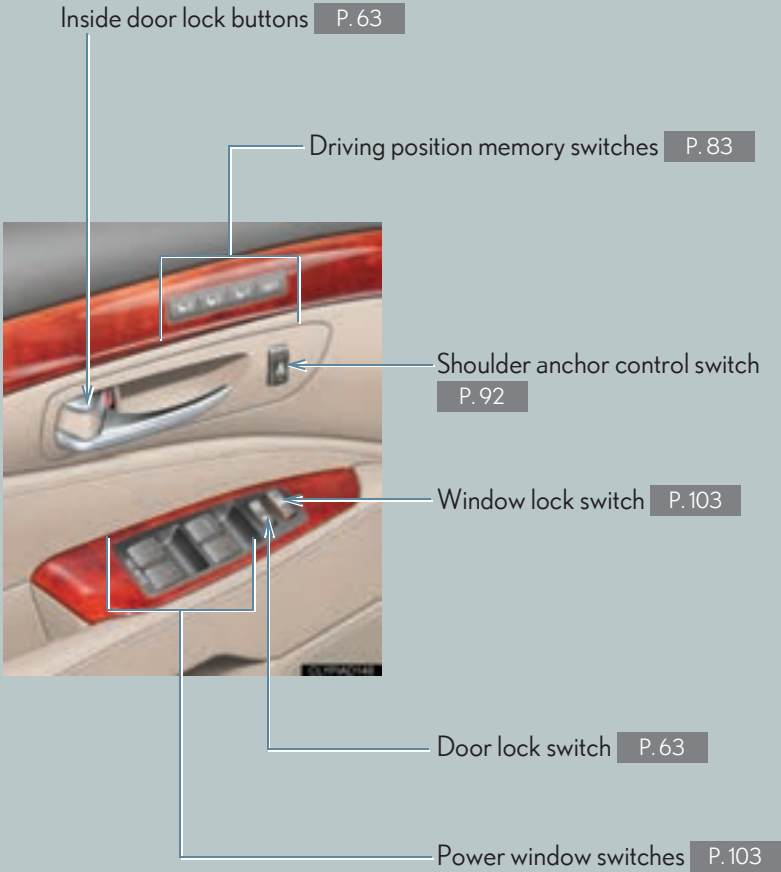
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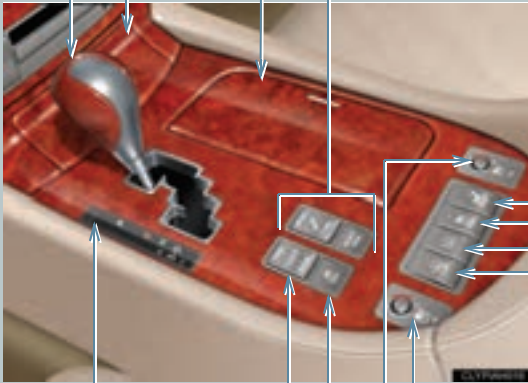
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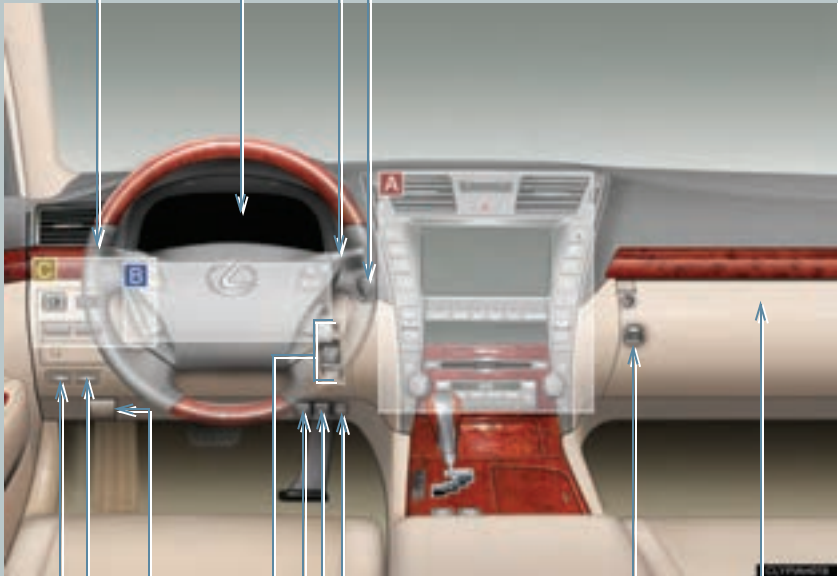
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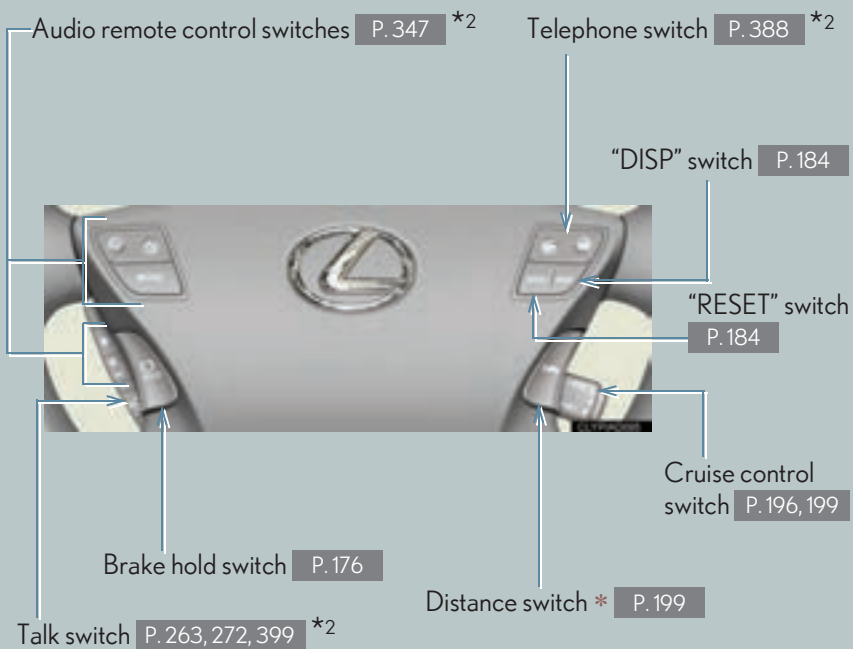
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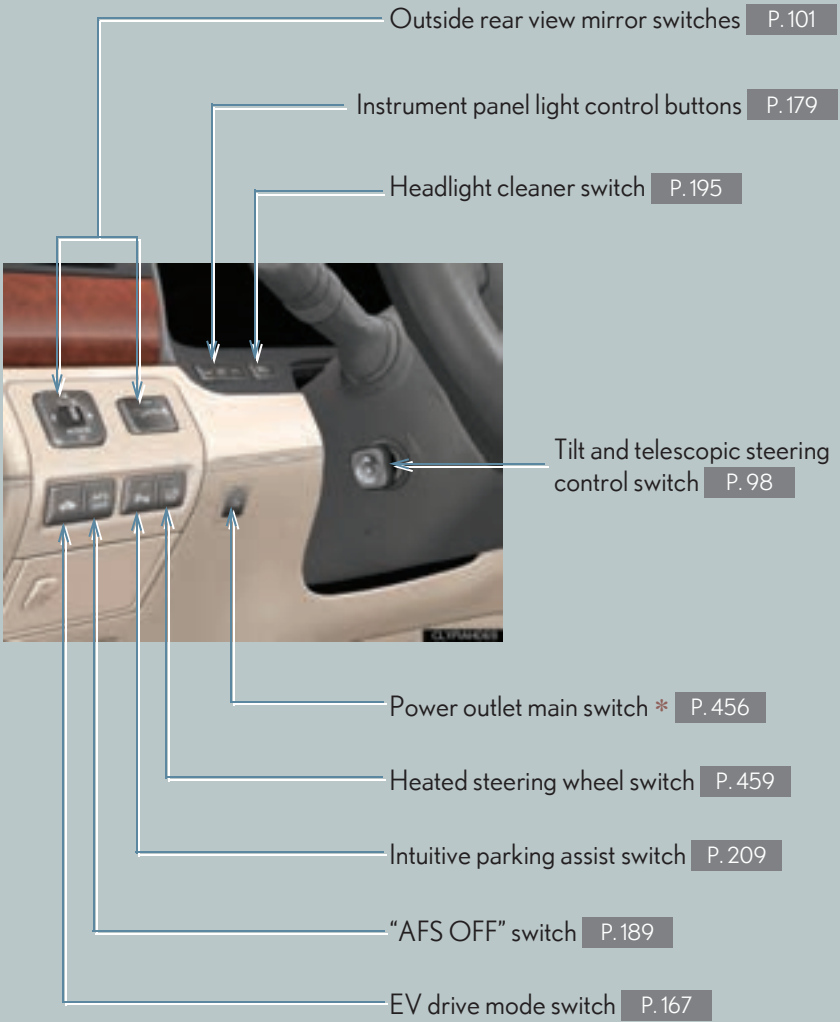
\*: If equipped

\*1: Refer to "Navigation System Owner's Manual".

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C



\*: If equipped

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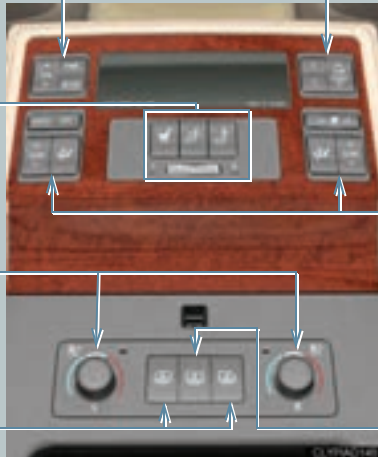
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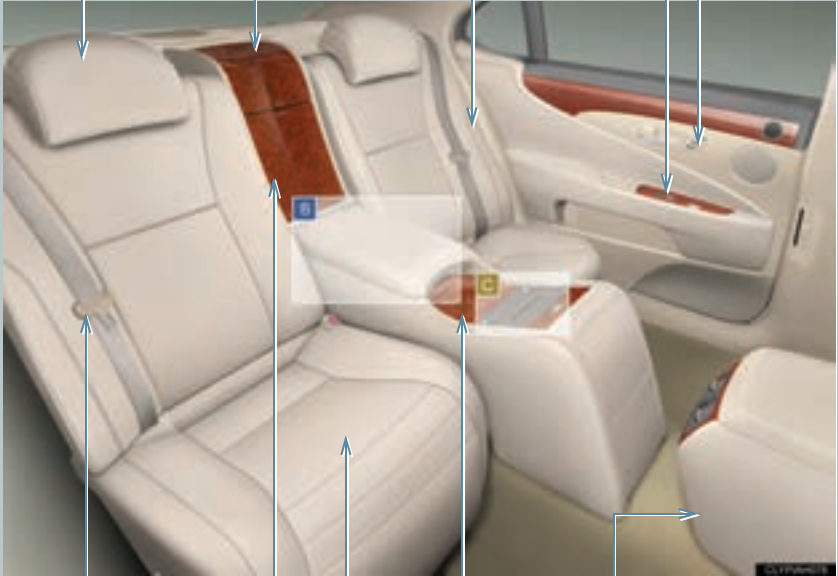
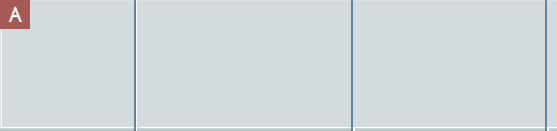
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SRS curtain shield  
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\*: If equipped



**B**

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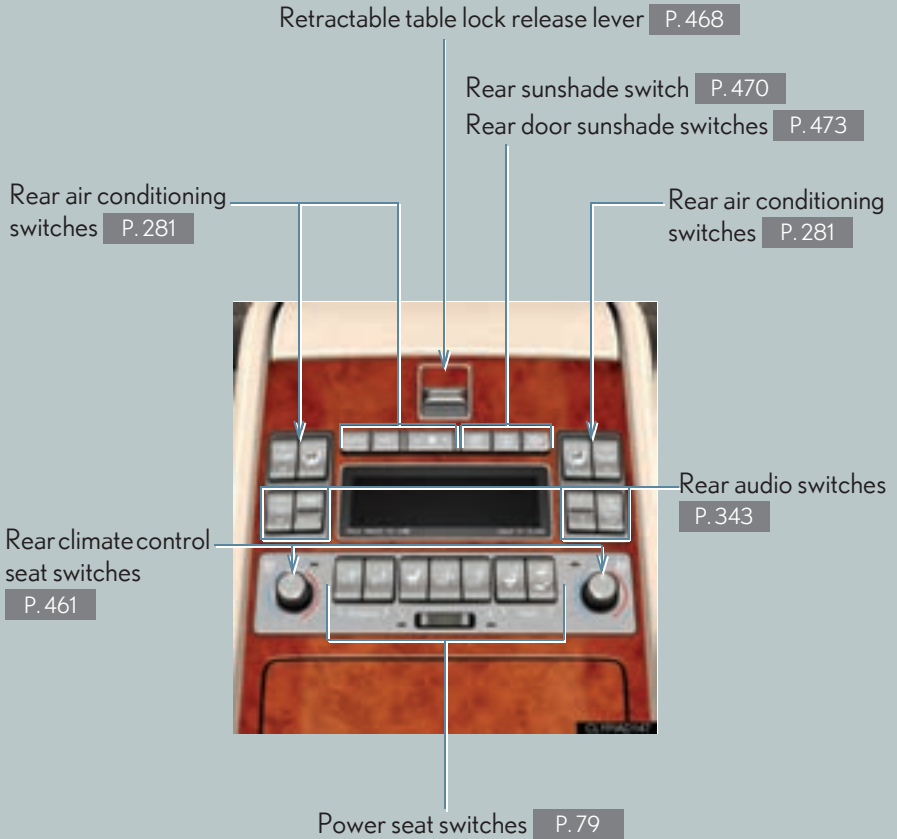


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\*: If equipped

## For your information

### Main Owner's 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 not be modified with non-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.

High voltage parts and cables on the hybrid vehicles emit approximately the same amount of electromagnetic waves as the conventional gasoline powered vehicles or home electronic appliances despite of their electromagnetic shielding.

## **Scrapping of your Lexus**

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

## Perchlorate Material

Special handling may apply, See [www.dtsc.ca.gov/hazardouswaste/perchlorate](http://www.dtsc.ca.gov/hazardouswaste/perchlorate).

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

 **CAUTION**

■ **General precautions while driving**

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

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

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

■ **General precaution regarding children's safety**

Never leave children unattended in the vehicle, and never allow children to have or use the key.

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 moon roof, or other features of the vehicle. In addition, heat build-up or extremely cold temperatures inside the vehicle can be fatal to children.

■ **Dispose of the hybrid battery (traction battery)**

If your vehicle is disposed of without the hybrid battery having been removed, there is a danger of serious electric shock if high voltage parts, cables and their connectors are touched. In the event of that your vehicle must be disposed of, the hybrid battery must be disposed of your Lexus dealer or a qualified service shop. If the hybrid battery is not disposed of properly, they may cause electric shock that can result in death or serious injury.

## Symbols used throughout this manual

### Cautions & Notices

#### CAUTION

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

#### NOTICE

This is a warning against something which, if ignored, may cause damage to the vehicle or its equipment. 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



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

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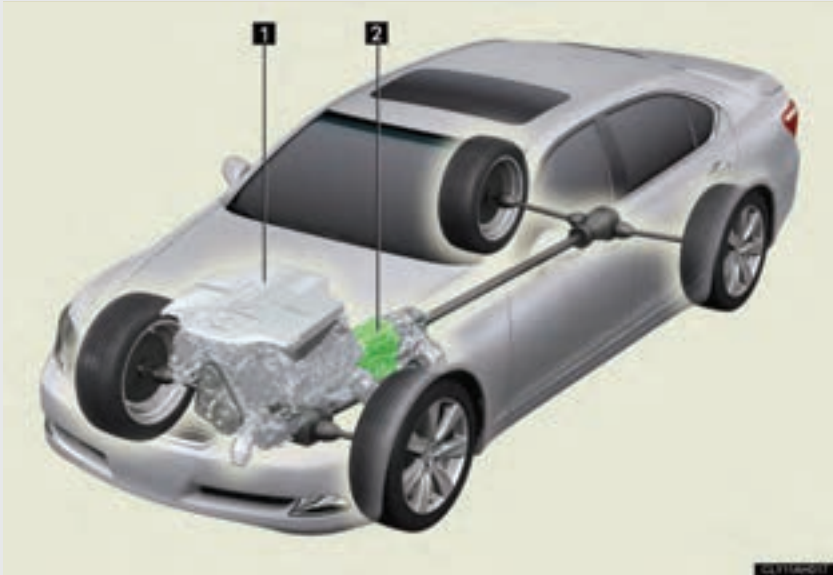


## 1-1. Hybrid system

# Hybrid system

Your vehicle is a hybrid vehicle. It has characteristics different from conventional vehicles. Be sure you are closely familiar with the characteristics of your vehicle, and operate with care.

The hybrid system combines a gasoline engine and an electric motor (traction motor) according to driving conditions, improving fuel efficiency and reducing exhaust emissions.



- 1** Gasoline engine
- 2** Electric motor (Traction motor)
- When stopped/during take-off**

The gasoline engine stops when the vehicle is stopped. During take-off, the electric motor (traction motor) drives the vehicle. At slow speeds or when traveling down a gentle slope, the engine is stopped and the motor is used.

### ■ During normal driving

The gasoline engine is predominantly used. The electric motor (traction motor) charges the hybrid battery as necessary.

### ■ When accelerating sharply

The power of the hybrid battery (traction battery) is added via electric motor (traction motor) to that of the gasoline engine.

### ■ When braking (Regenerative braking)

The electric motor (traction motor) charges the hybrid battery (traction battery).

---

### ■ Regenerative braking

The motor generator converts kinetic energy to electric energy when:

- The accelerator pedal is released.
- The brake pedal is depressed with the shift lever in “D”, “S” or “R”.

### ■ Conditions in which the gasoline engine may not stop

The gasoline engine starts and stops automatically. However, it may not stop automatically in the following conditions:

- The gasoline engine is warming up.
- The hybrid battery (traction battery) is being charged.
- The hybrid battery (traction battery) temperature is low or high.

### ■ Charging the battery

- As the gasoline engine charges the hybrid battery (traction battery), the battery does not need to be charged from an outside source. However, if the vehicle is left parked for a long time the hybrid battery will slowly discharge. For this reason, be sure to drive the vehicle at least once every few months for at least 30 minutes or 10 miles (16 km). If the hybrid battery becomes fully discharged and you are unable to jump-start the vehicle with the 12-volt battery, contact your Lexus dealer.
- If the shift lever is in “N”, the hybrid battery (traction battery) will not be charged. When driving in heavy traffic, operate the vehicle with the shift lever in “D” or “S” to avoid discharging the battery.

- To help prevent the 12-volt battery from becoming discharged, drive the vehicle at least once a month, and operate the accessories only when the “READY” indicator is on. When parking the vehicle, make sure the doors and trunk are closed and all lights are turned off.

### ■ After the 12-volt battery has discharged or has been changed or removed

The gasoline engine may idle at times when it usually would not. The vehicle idles continuously in order to re-learn the engine operating conditions and this does not indicate a malfunction. If this continues for more than a few days, contact your Lexus dealer.

### ■ Sounds and vibrations specific to a hybrid vehicle

There may be no engine sounds or vibration even though the vehicle is able to move. Always put the shift lever in “P” when parked.

The following sounds or vibrations may occur when the hybrid system is operating, and are not a malfunction:

- Motor sounds may be heard from under the vehicle.
- Sounds may be heard from the hybrid battery (traction battery) behind the rear seat when the hybrid system starts or stops.
- Sounds may be heard from the transmission when the hybrid system starts or stops.
- Engine sounds may be heard when accelerating sharply.
- Sounds may be heard due to energy regeneration when you depress the brake pedal.
- Vibration may be felt when the gasoline engine starts or stops.
- You may hear cooling fan sounds coming from the air intake vents behind the rear seat.

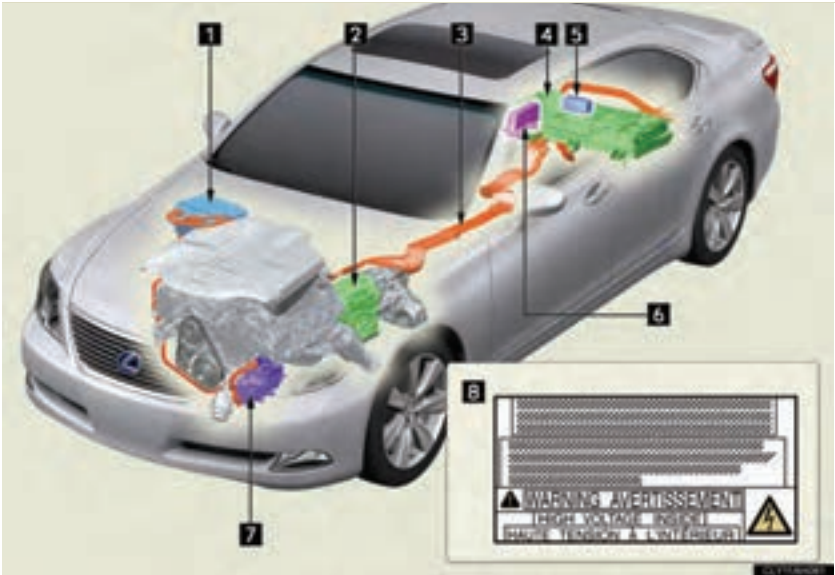
### ■ Hybrid battery (traction battery) cooling

The air conditioning system may operate automatically to cool the hybrid battery (traction battery).

### ■ Maintenance, repair, recycling, and disposal

Contact your Lexus dealer regarding maintenance, repair, recycling and disposal. Do not dispose of the vehicle yourself.

## High voltage components



- |                                      |                               |
|--------------------------------------|-------------------------------|
| 1 Power control unit                 | 5 Service plug                |
| 2 Electric motor (Traction motor)    | 6 DC/DC converter             |
| 3 High voltage cables (orange color) | 7 Air conditioning compressor |
| 4 Hybrid battery (Traction battery)  | 8 Caution label               |

Take care when handling the hybrid system, as it contains a high voltage system (about 650V at maximum) as well as parts that become extremely hot when the hybrid system is operating. Obey the caution labels attached to the vehicle.

### ■ Hybrid battery air vents



There are air intake vents on the package tray for the purpose of cooling the hybrid battery (traction battery). If the vents become blocked, the hybrid battery may overheat, leading to a reduction in hybrid battery output.

### Emergency shut off system

The emergency shut off system blocks off the high voltage current and stops the fuel pump to minimize the risk of electrocution and fuel leakage when a certain level of impact is detected by the impact sensor. If the emergency shut off system activates, your vehicle will not restart. To restart the hybrid system, contact your Lexus dealer.



### Energy monitor/consumption screen




You can view the status of your hybrid system on the multi-information display (→P. 184) and the touch screen (→P. 254). The following images are examples only, and may vary slightly from actual conditions.

**Energy monitor**

- How to display on the touch screen:

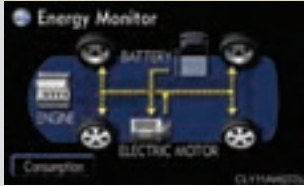
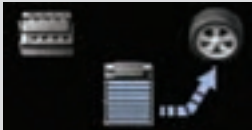
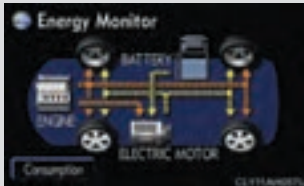
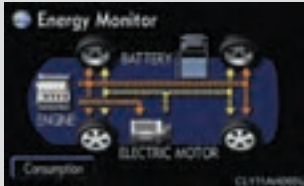

Press  or  to display the information screen, and touch



If the "Consumption" screen is displayed, touch .

- How to display on the multi-information display:



Press the "DISP" switch on the steering wheel several times to select the energy monitor display.

	Touch screen	Multi-information display
When the vehicle is powered by the electric motor (traction motor)		
When the vehicle is powered by both the gasoline engine and the electric motor (traction motor)	 	

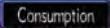
# 1-1. Hybrid system

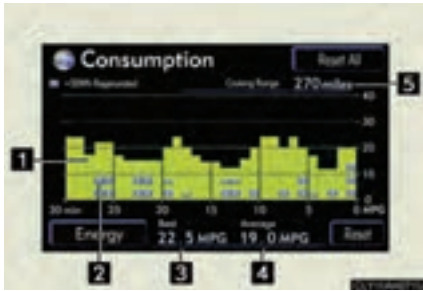
	Touch screen	Multi-information display
When the vehicle is powered by the gasoline engine		
When the vehicle is charging the hybrid battery (traction battery)		
When there is no energy flow		
Hybrid battery (traction battery) status	Low	Full

## ■ Consumption

Press  or  to display the information screen, and touch



If the “Energy Monitor” screen is displayed, touch .





- 1 Fuel consumption in the past 30 minutes
- 2 Regenerated energy in the past 30 minutes  
One symbol indicates 50 Wh. Up to 4 symbols are shown.
- 3 Best past fuel consumption
- 4 Average fuel consumption
- 5 Cruising range

1

Before driving

## ■ Resetting the consumption data

Touching  will reset the average fuel consumption. Touching  will reset all the data (except the cruising range) on the “Consumption” screen.



### Hybrid warning message

A message is automatically displayed when a malfunction occurs in the hybrid system or an improper operation is attempted.



If a warning message is shown on the multi-information display, read the message and follow the instructions.

---

■ **If a warning light comes on or a warning message is displayed, or the 12-volt battery is disconnected**

The hybrid system may not start. In that case, try to start the system again. If the "READY" indicator does not come on, contact your Lexus dealer.

■ **When refueling, the fuel filler door may take a few moments to open**

As part of emission system operation, it may take up to 10 seconds for the fuel filler door to automatically release after the opener switch is pressed. Before refueling is possible, a message will be shown on the multi-information display. (→P. 108)

■ **Running out of fuel**

When the vehicle has run out of fuel and the hybrid system cannot be started, refuel the vehicle with at least enough gasoline to make the low fuel level warning light (→P. 601) go off. If there is only a small amount of fuel, the hybrid system may not be able to start. (The minimum amount of fuel to add to make the low fuel level warning light go out is about 3.4 gal. [13 L, 2.8 Imp.gal], when the vehicle is on a level surface. This value may vary when the vehicle is on a slope.)

**⚠ CAUTION****■ High voltage precautions**

The vehicle has high voltage DC and AC systems as well as a 12-volt system. DC and AC high voltage is very dangerous and can cause severe burns and electric shock that may result in death or serious injury.

- Never touch, disassemble, remove or replace the high voltage parts, cables and their connectors.
- The hybrid system will become hot after starting as the system uses high voltage. Be careful of both the high voltage and the high temperature, and always obey the caution labels attached to the vehicle.



- Never try to open the service plug access hole located in the luggage compartment. The service plug is used only when the vehicle is serviced and is subject to high voltage.

### CAUTION

#### ■ Road accident cautions

Observe the following precautions to reduce the risk of injury:

- Pull your vehicle off the road, put the shift lever in “P”, apply the parking brake, and turn the hybrid system off.
- Do not touch the high voltage parts, cables and connectors.
- If electric wires are exposed inside or outside your vehicle, an electric shock may occur. Never touch exposed electric wires.
- If a fluid leak occurs, do not touch it as it may be strong alkaline electrolyte from the hybrid battery (traction battery). If it comes into contact with your skin or eyes, wash it off immediately with a large amount of water or if possible, boric acid solution. Seek immediate medical attention.
- If a fire occurs in the hybrid vehicle, leave the vehicle as soon as possible. Never use a fire extinguisher that is not meant for electric fires. Using even a small amount of water may be dangerous.
- If your vehicle needs to be towed, do so with four wheels raised. If the wheels with the electric motor (traction motor) are on the ground when towing, the motor may continue to generate electricity. This may cause an electricity leakage leading to a fire. (→P. 590)

#### ■ Nickel-metal hydride battery

Your vehicle contains a sealed nickel-metal hydride battery. If disposed of improperly, it is hazardous to the environment and there is a risk of severe burns and electrical shock that may result in death or serious injury.

#### ■ Emergency shut off system

- Carefully check to see if there are exposed high voltage parts or cables. Never touch the parts or cables. (→P. 33)
- Carefully inspect the ground under the vehicle. If you find that liquid has leaked onto the ground, the fuel system may have been damaged. Leave the vehicle as soon as possible.

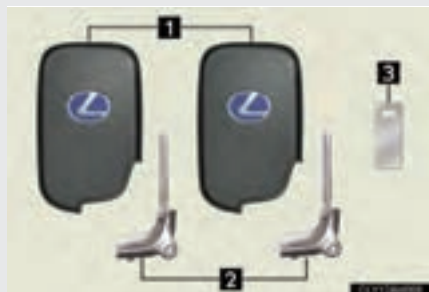
 NOTICE**■ Hybrid battery air vents**

- Do not put foreign objects over the air vents. The hybrid battery (traction battery) may overheat and be damaged.
- Clean the air vents regularly to prevent the hybrid battery (traction battery) from overheating.
- Do not wet the air vents. It may cause a short circuit and damage the hybrid battery (traction battery).
- Do not carry large amounts of water such as water cooler bottles in the vehicle. If water spills over the hybrid battery (traction battery), the battery may be damaged.

## 1-2. Key information

# Keys

The following keys are provided with the vehicle.



### 1 Electronic keys

- Operating the smart access system with push-button start (→P. 46)
- Operating the wireless remote control function (→P. 60)

### 2 Mechanical keys

### 3 Key number plate

## ■ Card key (if equipped)



### 1 Electronic key

Operating the smart access system with push-button start (→P. 46)

### 2 Mechanical key

The card key comes with an information card that includes instructions for use. Lexus recommends that you carry the information card with the card key.

## Using the mechanical key



Take out the mechanical key.

The mechanical key can only be inserted in one direction, as the key only has grooves on one side. If the key cannot be inserted in a lock cylinder, turn it over and re-attempt to insert it.

After using the mechanical key, store it in the electronic key. Carry the mechanical key together with the electronic key. If the electronic key battery depletes or the entry function does not operate properly, you will need the mechanical key. (→P. 624)

1

Before driving

### ■ Card key

- The mechanical key that is stored inside the card key should be used only if a problem arises, such as when the key does not operate properly.
- If it is difficult to take out the mechanical key, push down the lock release button using a pen tip etc. If it is still difficult to pull it out, use a coin etc.



- To store the mechanical key in the card key, insert it inside while pressing the lock release button.



- If the battery cover is not installed and the battery falls out or if the battery was removed because the key got wet, reinstall the battery with the positive terminal facing the Lexus emblem.

- The card key is not waterproof.

### ■ When required to leave the vehicle's key with a parking attendant

Turn the trunk opener main switch off and lock the glove box as circumstances demand. (→P. 69, 437)

Remove the mechanical key for your own use and provide the attendant with the electronic key only.

### ■ Key number plate

Keep the plate in a safe place such as your wallet, not in the vehicle. In the event that a mechanical key is lost, a new key can be made at your Lexus dealer using the key number plate. (→P. 623)

 NOTICE**■ To prevent key damage**

Observe the following:

- Do not drop the keys, subject them to strong shocks or bend them.
- Do not expose the keys to high temperatures for a long period of time.
- Do not get the keys wet or wash them in an ultrasonic washer etc.
- Do not attach metallic or magnetic materials to the keys or place the keys close to such materials.
- Do not disassemble the keys.
- Do not place the keys near objects that produce magnetic fields, such as TVs, audio systems, glass top ranges, or medical electrical equipment, such as low-frequency therapy equipment.

**■ Precautions for handling the card keys**

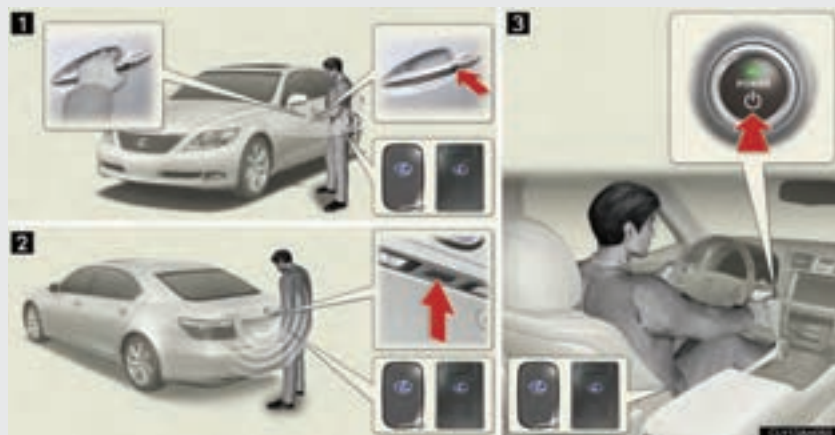
- Do not apply excess force when inserting the mechanical key to the card key. Doing so may damage the card key.
- If the battery or card key terminals get wet, the battery may corrode. If the key is dropped into water, or if drinking water etc. is spilled on the key, immediately remove the battery cover and wipe the battery and terminals. (To remove the battery cover, lightly grasp and pull it.) If the battery is corroded, have your Lexus dealer replace the battery.
- Do not crush the battery cover or use a screwdriver to remove the battery cover. Forcibly removing the battery cover may bend or damage the key.
- If the battery cover is frequently removed, the battery cover may become loose.
- When installing the battery, make sure to check the direction of the battery. Installing the battery in the wrong direction may cause the battery to deplete rapidly.
- The surface of the card key may be damaged, or its coating may peel off in the following situations:
  - The card key is carried together with hard objects, such as coins or keys.
  - The card key is scraped with a sharp object, such as a tip of mechanical pencil.
  - The surface of the card key is wiped with thinners or benzene.



## 1-3. Opening, closing and locking the doors and trunk Smart access system with push-button start

The following operations can be performed simply by carrying the electronic key (including the card key) on your person, for example in your pocket.

(The driver should always carry the electronic key.)

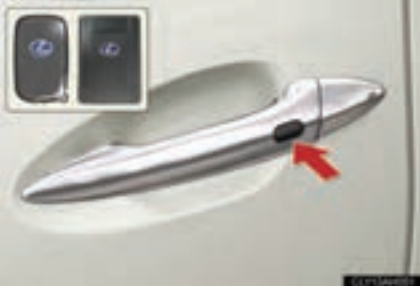


**1** Locks and unlocks the doors (→P. 47)

**2** Opens the trunk (→P. 47)

**3** Starts and stops the hybrid system (→P. 163)

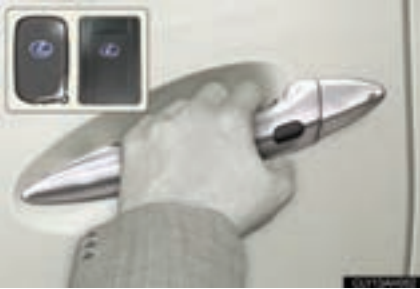
## Locking and unlocking the doors



Press the lock button to lock the door.

Pressing and holding the button closes the windows.

The moon roof will also close. (if equipped)



Grip the handle to unlock the door.

Make sure to touch the sensor on the back of the handle.

The door cannot be unlocked for 3 seconds after the door is locked.

## Opening the trunk

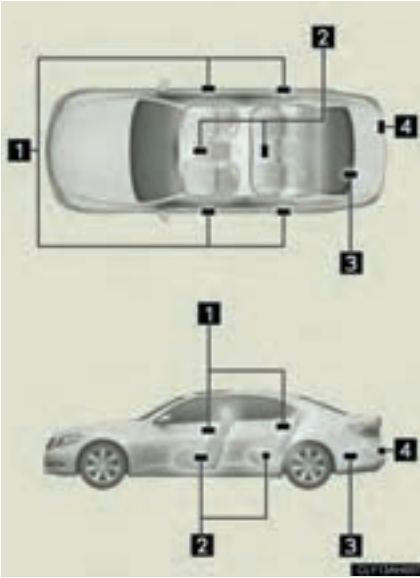


Press the button.

The trunk lid automatically opens fully.

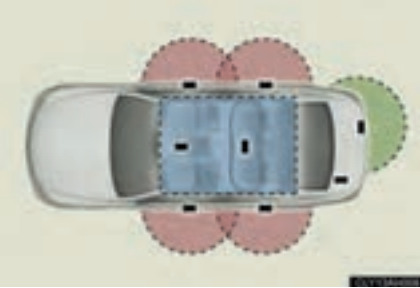
## Antenna location and effective range

### Antenna location



- 1 Antennas outside cabin
- 2 Antennas inside cabin
- 3 Antenna inside trunk
- 4 Antenna outside trunk

### ■ Effective range (areas within which the electronic key is detected)



- When locking or unlocking the doors

The system can be operated when the electronic key is within about 2.3 ft. (70 cm) of an outside door handle. (Only the doors detecting the key can be operated.)

- When opening the trunk

The system can be operated when the electronic key is within about 2.3 ft. (70 cm) of the trunk release button.

- When starting the hybrid system or changing "POWER" switch modes

The system can be operated when the electronic key is inside the vehicle.

### ■ Operation signals

Doors: A buzzer sounds and the emergency flashers flash to indicate that the doors have been locked/unlocked. (Locked: Once; Unlocked: Twice)

Trunk: A buzzer sounds to indicate that the trunk has been unlocked.

Windows and moon roof: A buzzer sounds to indicate that the windows and moon roof are operating.

### ■ Door lock buzzer

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

### ■ Adjusting the volume of the buzzer

The operation signal buzzer and door lock buzzer can be set to the desired volume.



**1** Increases the volume

**2** Decreases the volume

The buzzer can be turned off by turning the knob fully clockwise.

### ■ Conditions affecting operation

The smart access system with push-button start uses weak radio waves. In the following situations, the communication between the electronic key and the vehicle may be affected, preventing the smart access system with push-button start, wireless remote control and immobilizer system from operating properly:

(Ways of coping: →P. 624)





- When the electronic key battery is depleted
- Near a TV tower, electric power plant, gas station, radio station, large display, airport or other facility that generates strong radio waves or electrical noise
- When carrying a portable radio, cellular phone, cordless phone or other wireless communication devices
- When the electronic key is in contact with, or is covered by the following metallic objects
  - Cards to which aluminum foil is attached
  - Cigarette boxes that have aluminum foil inside
  - Metallic wallets or bags
  - Coins
  - Hand warmers made of metal
  - Media such as CDs and DVDs
- When multiple electronic keys are in the vicinity
- When other wireless keys (that emit radio waves) are being used nearby
- When carrying the electronic key together with the following devices that emit radio waves
  - Another vehicle's electronic key or a wireless key that emits radio waves
  - Personal computers or personal digital assistants (PDAs)
  - Digital audio players
  - Portable game systems
- If window tint with a metallic content or metallic objects are attached to the rear window

## 1-3. Opening, closing and locking the doors and trunk



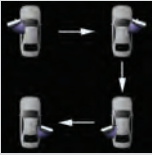

### ■ Switching the door unlock function

It is possible to set which doors the entry function unlocks using the wireless remote control.


**STEP 1** Turn the “POWER” switch to “OFF” mode.

**STEP 2** When the indicator light on the key surface is not on, press and hold  ,  , or  for about 5 seconds while pressing and holding  .

The setting changes each time an operation is performed, as shown below. (When changing the setting continuously, release the buttons, wait for at least 5 seconds, and repeat step 2.)

Multi-information display	Unlocking doors	Beep
	Hold the driver's door handle to unlock only the driver's door.	Exterior: Beeps 3 times Interior: Rings once
	Hold a passenger's door handle to unlock all the doors.	
	Hold the door handle to unlock the front and rear doors on your side.	Exterior: Beeps 4 times Interior: Rings once
	Hold the door handle to unlock the door.	Exterior: Beeps once Interior: Rings once
	Hold a door handle to unlock all doors.	Exterior: Beeps twice Interior: Rings once

**STEP 3** Unlock the doors using the wireless remote control and open one of the doors.

If a door is not opened within 60 seconds after  is pressed, the doors will be locked again and the alarm will automatically be set. In case that the alarm is triggered, immediately stop the alarm. (→P. 115)

### ■ Battery-saving function

In the following circumstances, the entry function is disabled in order to prevent the 12-volt battery from discharging and the electronic key battery from depleting.

- When the entry function has not been used for a month or more
- When the electronic key has been left within approximately 6 ft. (2 m) of the vehicle for 10 minutes or more

The system will resume operation when

- The vehicle is locked using the door handle lock switch when carrying the electronic key on your person.
- The vehicle is locked/unlocked using the wireless remote control function. (→P. 60)
- The vehicle is locked/unlocked using the mechanical key. (→P. 624)

### ■ Electronic key battery depletion

- The standard battery life is 1 to 2 years. (The card key battery life is about a year and a half.)
- The battery becomes depleted even if the electronic key is not used because the key always transmits radio waves. If the smart access system with push-button start or the wireless remote control does not operate, or the detection area becomes smaller, the battery may be depleted. Replace the battery when necessary. (→ P. 552)
- To avoid serious deterioration, do not leave the electronic key within 3 ft. (1m) of the following electrical appliances:
  - TVs
  - Personal computers
  - Cellular phones, cordless phones and battery chargers
  - Recharging cellular phones or cordless phones
  - Glass top ranges
  - Table lamps



### ■ To operate the system properly

Make sure to carry the electronic key when operating the system. Do not get the electronic key too close to the vehicle when operating the system from the outside of the vehicle.

Depending on the position and holding condition of the electronic key, the key may not be detected correctly and the system may not operate properly. (The alarm may go off accidentally, or the door lock prevention may not function.)

### ■ Note for the entry function

- Even when the electronic key is within the effective range (detection areas), the system may not operate properly in the following cases:
  - The electronic key is too close to the window or outside door handle, near the ground, or in a high place when the doors are locked or unlocked.
  - The electronic key is near the ground or in a high place, or too close to the rear bumper center when the trunk is unlocked.
  - The electronic key is on the instrument panel, rear package tray or floor, or in the glove box when the hybrid system is started or “POWER” switch modes are changed.
- As long as the electronic key is within the effective range, the doors may be locked or unlocked by anyone.
- Even if the electronic key is not inside the vehicle, it may be possible to start the hybrid system if the electronic key is near the window.
- The doors may unlock if a large amount of water splashes on the door handle, such as in the rain or in a car wash when the electronic key is within the effective range. (The door will automatically be locked after approximately 60 seconds if the doors are not opened and closed.)
- Gripping the door handle when wearing a glove may not unlock the door.
- If the wireless remote control is used to lock the doors when the electronic key is near the vehicle, there is a possibility that the door may not be unlocked by the entry function. (Use the wireless remote control to unlock the doors.)
- A sudden approach to the effective range or door handle may prevent the doors from being unlocked. In this case, return the door handle to the original position and check that the doors unlock before pulling the door handle again.

### ■ When the vehicle is not driven for extended periods

To prevent theft of the vehicle, do not leave the electronic key within 6 ft. (2 m) of the vehicle.

### ■ Security feature

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

### ■ Alarms and warning indicators

A combination of exterior and interior alarms as well as warnings displayed on the multi-information display is used to prevent theft of the vehicle and unforeseeable accidents resulting from erroneous operation. Perform the appropriate correction procedure described in the following table:

Alarm	Situation	Correction procedure
Exterior alarm sounds once for 2 seconds.	An attempt was made to lock the doors using the entry function while the electronic key was still inside the passenger compartment.	Retrieve the electronic key from the passenger compartment and lock the doors again.
	The trunk was closed with the electronic key inside and all doors were locked.	Retrieve the electronic key from the trunk and close the trunk lid.
Exterior alarm sounds once for 60 seconds.	An attempt was made to exit the vehicle and lock the doors while carrying the electronic key without first turning the "POWER" switch to "OFF" mode.	Turn the "POWER" switch to "OFF" mode and lock the doors again.
Exterior alarm sounds once for 10 seconds.	An attempt was made to lock the vehicle while a door was open.	Close all of the doors and lock the doors again.

### 1-3. Opening, closing and locking the doors and trunk

Alarm	Situation	Correction procedure
Interior alarm pings continuously.	The "POWER" switch was turned to "ACC" mode while the driver's door was open (or the driver's door was opened while the "POWER" switch was in "ACC" mode).	Turn the "POWER" switch to "OFF" mode and close the driver's door.
	The "POWER" switch was turned to "OFF" mode while the driver's door was open.	Close the driver's door.
Interior alarm sounds continuously. <sup>*1</sup>	When the "POWER" switch is in "ON" or "ACC" mode, an attempt was made to open the door and exit the vehicle, and the shift lever was not in "P".	Shift the shift lever to "P" and turn the "POWER" switch to "OFF" mode.
Interior and exterior alarms sound continuously. <sup>*1</sup>	When the "POWER" switch is in "ON" or "ACC" mode, the driver's door was closed after the key was carried outside the vehicle, and the shift lever was not in "P".	Shift the shift lever to "P", turn the "POWER" switch to "OFF" mode and close the driver's door again.
Interior alarm pings once. <sup>*1</sup>	The electronic key has a low battery.	Replace the electronic key battery.
	An attempt was made to start the hybrid system without the electronic key being present, or the electronic key was not functioning normally.	Start the hybrid system with the electronic key present. <sup>*2</sup>

Alarm	Situation	Correction procedure
Interior alarm pings once and exterior alarm sounds 3 times. <sup>*1</sup>	The driver's door was closed after the key was carried outside the vehicle, and the "POWER" switch was not turned to "OFF" mode.	Turn the "POWER" switch to "OFF" mode and close the driver's door again.
	An occupant carried the electronic key outside the vehicle and closed the door while the "POWER" switch was not in "OFF" mode.	Bring the electronic key back into the vehicle.

<sup>\*1</sup>: A warning message will be shown on the multi-information display in the instrument cluster.

<sup>\*2</sup>: If the hybrid system does not start when the electronic key is inside the vehicle, the electronic key battery may be depleted or there may be difficulties receiving the signal from the key. (→P. 53)

#### ■ If the smart access system with push-button start does not operate properly

- Locking and unlocking the doors and trunk: Use the mechanical key. (→P. 624)
- Starting the hybrid system: →P. 625

#### ■ When the electronic key battery is fully depleted

→P. 552

#### ■ Customization

Settings (e.g. smart access system with push-button start) can be deactivated. (→P. 661)

### ■ Certification for the smart access system with push-button start

#### ► U.S.A.

FCC ID: NI4TMLF-4

#### NOTE:

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.

#### ► Canada

#### NOTE:

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****■ Caution regarding interference with electronic devices**

- People with implanted pacemakers or cardiac defibrillators should keep away from the smart access system antennas. (→P. 49) The radio waves may affect the operation of such devices. If necessary, the entry function can be disabled. Ask your Lexus dealer for details, such as the frequency of radio waves and timing of emitting the radio waves. Then, consult your doctor to see if you should disable the entry function.
- User of any electrical medical device other than implanted pacemakers and implanted cardiac defibrillators should consult the manufacturer of the device for information about its operation under the influence of radio waves. Radio waves could have unexpected effects on the operation of such medical devices.

Ask your Lexus dealer for details for disabling the entry function.

## 1-3. 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 all doors
- 2 Unlocks all doors
- 3 Opens the windows (press and hold)  
The moon roof will also open. (if equipped)
- 4 Opens the trunk (press and hold)
- 5 Sounds alarm (press and hold) (→P. 115)

### ■ 2-step unlocking function

When you press , the driver's door is unlocked. Pressing the button again within 3 seconds unlocks the other doors.

### ■ Operation signals

Doors: A buzzer sounds and the emergency flashers flash to indicate that the doors have been locked/unlocked. (Locked: Once; Unlocked: Twice)

Trunk: A buzzer sounds to indicate that the trunk has been unlocked.

Windows and moon roof: A buzzer sounds to indicate that the windows and moon roof are opening.

### ■ Door lock buzzer

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

■ **Adjusting the volume of the buzzer**

The operation signal buzzer and door lock buzzer can be set to the desired volume.  
(→P. 50)

■ **Alarm**

Using the wireless remote control to lock the door will set the alarm system.  
(→P. 115)

■ **Electronic key battery depletion**

→P. 53

■ **Security feature**

→P. 55

■ **If the wireless remote control does not operate properly**

● Locking and unlocking the doors and trunk: Use the mechanical key.  
(→P. 624)

● Starting the hybrid system: →P. 625

■ **When the electronic key battery is fully depleted**

→P. 552

■ **Conditions affecting operation**

→P. 51



### ■ Customization

Settings (e.g. trunk unlocking function) can be changed. (→P. 661)

### ■ Certification for wireless remote control

#### ► U.S.A.

#### NOTE:

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

#### FCC WARNING:

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

#### ► Canada

#### NOTE:

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.

## 1-3. Opening, closing and locking the doors and trunk

### Doors

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

#### ■ Entry function

→P. 47

#### ■ Wireless remote control

→P. 60

#### ■ Door lock switch



- 1 Locks all doors
- 2 Unlocks all doors

#### ■ Inside lock button



- 1 Locks the door
- 2 Unlocks the door

The front doors can be opened by pulling the inside handle even if the lock buttons are in the lock position.

### Locking the front doors from the outside without a key

The door cannot be locked if the "POWER" switch is in "ACC" or "ON" mode, or the electronic key is left inside the vehicle.

The key may not be detected correctly and the door may be locked.

### Rear door child-protector lock



The door cannot be opened from inside the vehicle when the locks are set.

These locks can be set to prevent children from opening the rear doors. Push down on each rear door switch to lock both rear doors.

### Automatic door locking and unlocking systems

The following functions can be set or canceled:

Function	Operation
Shift position linked door locking function	Shifting the shift lever out of "P" with the hybrid system on locks all doors.
Shift position linked door unlocking function	Shifting the shift lever to "P" unlocks all doors.
Speed linked door locking function	All doors are locked when the vehicle speed is approximately 12 mph (20 km/h) or higher.
Driver's door linked door unlocking function	All doors are unlocked when the driver's door is opened within 10 seconds after turning the "POWER" switch to "OFF" mode.

### ■ Setting and canceling the functions

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

**STEP 1** Close all the doors and turn the “POWER” switch to “ON” mode.  
(Perform step 2 within 20 seconds.)

**STEP 2** Shift the shift lever to “P” or “N”, and press and hold the driver's door lock switch (**1** or **2**) for approximately 5 seconds and then release.

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



Function	Shift lever position	Switch position
Shift position linked door locking function	P	<b>1</b>
Shift position linked door unlocking function		<b>2</b>
Speed linked door locking function	N	<b>1</b>
Driver's door linked door unlocking function		<b>2</b>

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

### ■ Impact detection door lock release system

In the event that the vehicle is subject to a strong impact, all the doors are unlocked. Depending on the force of the impact or the type of accident, however, the system may not operate.

### ■ Door closer

In the event that a door is left slightly open, the door closer will automatically close it to the fully closed position.


- The door closer will operate regardless of "POWER" switch mode.
- The door closer will not function if the door has been closed while pulling the inside or outside door handle.
- The door can be opened by pulling the inside or outside door handle, even when the door closer is operating (except when the lock button is in the lock position or the child-protector lock is set).
- The motor sound may be heard for several seconds after the door closer closes the door. This does not indicate a malfunction.

### ■ Using the mechanical key

The doors can also be locked and unlocked with the mechanical key. (→P. 624)

### ■ Customization

Settings (e.g. unlocking function using a key) can be changed. (→P. 661)

 **CAUTION****■ To prevent an accident**

Observe the following precautions while driving the vehicle.

Failure to do so may result in a door opening and an occupant falling out, resulting in death or serious injury.

- Always use a seat belt.
- Always lock all doors.
- Ensure that all doors are properly closed.
- Front doors: Do not pull on the inside door handle while the vehicle is in motion. The door will open even if it is locked.
- Set the rear door child protector locks when children are seated in the rear seat.

**■ Door closer**

In the event that a door is left slightly open, the door closer will automatically close it to the fully closed position. If the child-protector lock is set, the door closer will not stop during operation even if an attempt is made to open the door from inside the vehicle. Be careful not to catch fingers or anything else in the door. Failure to do so may result in serious injury.

 **NOTICE****■ To prevent door closer malfunction**

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

## 1-3. Opening, closing and locking the doors and trunk

### Trunk

The trunk can be opened using the trunk opener, entry function or wireless remote control.

#### ■ Trunk opener



Press the opener switch.

The trunk lid automatically opens fully.

#### ■ Entry function

→P. 47

#### ■ Wireless remote control

→P. 60

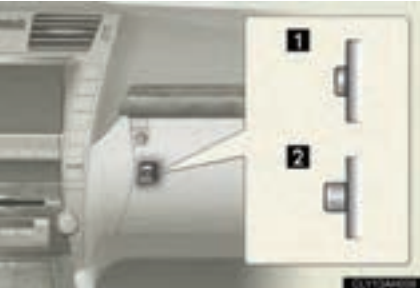
### Trunk closer switch



Pressing the switch closes the trunk lid automatically. (A buzzer sounds.)

Pressing the switch while the trunk lid is closing opens the trunk lid again.

## Canceling the trunk opener feature



Turn the main switch in the glove box off to disable the trunk opener.

- 1 On
- 2 Off

The trunk lid cannot be opened even with the wireless remote control or the entry function.

1

Before driving

### ■ Trunk handle



Use the trunk handle when closing the trunk.

### ■ Trunk easy closer

In the event that the trunk lid is left slightly open, the trunk easy closer will automatically close it to the fully closed position.

### ■ Function to prevent the trunk being locked with the electronic key inside (when all the doors are locked)

Closing the trunk lid with the electronic key left inside the trunk will sound an alarm. In this case, the trunk lid can be opened by pressing the button on the trunk lid.

### ■ Overload protection function

The trunk lid will not operate when excessive load is present on the top of the trunk lid.

### ■ Fall-down protection function

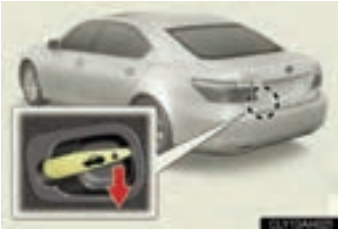
While the trunk lid is opening automatically, applying excessive force to it will stop the opening operation to prevent the trunk lid from rapidly falling down.



### ■ Jam protection function

While the trunk lid is closing automatically, the trunk lid will stop closing and open if something gets caught.

### ■ Internal trunk release lever



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

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

### ■ Using the mechanical key

The trunk can be also opened using the mechanical key. (→P. 624)

### ■ Customization

Setting of power trunk opener and closer function can be deactivated. (→P. 661)

## ⚠ 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.
- Do not allow a child to open or close the trunk lid. Doing so may cause the trunk lid to operate unexpectedly and part of the child's body may become caught.

 **CAUTION****■ Trunk easy closer**

When the trunk lid is not completely closed, the trunk easy closer will automatically close it. Be careful not to catch fingers or anything else in the trunk lid. Failure to do so may result in serious injury.

**■ Power trunk opener and closer**

- When the power trunk opener and closer is operating, check the safety of the surrounding area and take extra care to prevent your fingers etc. from being caught in the trunk lid. Also pay attention to your personal belongings, such as bags or ties.
- Do not attach any accessories other than Lexus genuine parts to the trunk lid. Doing so may prevent the power trunk opener and closer from operating automatically, resulting in a malfunction. It may also cause the trunk lid to fall down after it has fully opened, resulting in serious injury.
- Remove any heavy loads, such as snow, on the trunk lid before opening it. Failure to do so may cause the trunk lid to fall down due to the load after it opens.
- If any abnormality is detected while the power trunk opener and closer is operating, such as when the trunk lid contacts an obstacle, the automatic operation may stop and change to manual operation. Before operating the power trunk opener and closer, make sure that there are no obstacles.

**■ Jam protection function**

- Never use any part of your body to intentionally activate the jam protection function.
- The jam protection function may not work if something gets caught just before the trunk lid fully closes.

### NOTICE

#### ■ To prevent trunk easy closer malfunction

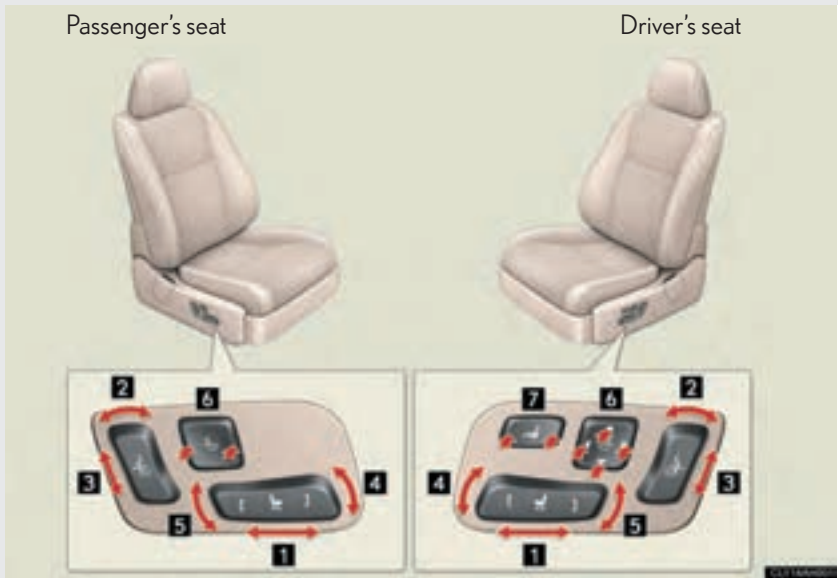
Do not apply force to the trunk lid while the trunk easy closer is operating.

#### ■ To prevent damage to the power trunk opener and closer

- Make sure that there is no luggage or snow on the trunk lid before operating the power trunk opener and closer. In addition, make sure that there is no ice between the trunk lid and frame that prevents movement of the trunk lid. Operating the power trunk opener and closer when excessive load is present on the trunk lid may cause a malfunction.
- Do not apply excessive force to the trunk lid while the power trunk opener and closer is operating.

## 1-4. Adjustable components (seats, mirrors, steering wheel)

### Front seats



#### 1 Seat position switch

The height of the driver's head restraint is automatically adjusted simultaneously with the seat position adjustment operation.

#### 2 Seatback angle switch

#### 3 Head restraint height adjustment switch (→P. 89)

#### 4 Seat cushion (front) angle switch

#### 5 Vertical height adjustment switch

#### 6 Lumbar support switch

Driver's seat: 4-way

Front passenger's seat: 2-way

#### 7 Seat cushion length adjustment switch

### Seat operation switches on the side of the front passenger's seat



- Seatback angle switch
- 1 Forward
- 2 Backward
- Seat position switch
- 3 Forward
- 4 Backward

### Operating the front passenger's seat from the rear seat (4-seat models)



- 1 Moves the front passenger's seat forward  
The signal beeps when seat operation stops at the forward limit.
- 2 Moves the front passenger's seat backward  
The seatback will return to the neutral position.

#### ■ Operating the front passenger's seat from the rear seat (4-seat models)

The front passenger's seat can be operated when the "POWER" switch is in "ON" mode. However, in the following situations, the front passenger's seat does not move even when the switch is operated.

- The front passenger's seat belt is in use.
- The front passenger's door is open. (The front seat will not move forward.)

#### ■ Seat cushion automatic length adjustment (driver's seat only)

If the front of the cushion gets too close to the area around the instrument panel when the seat position is being adjusted, the seat cushion will automatically retract.

### ■ When the retractable table is in use (4-seat models)

The seat operation will stop if a front seat is going to contact the retractable table while the seat is being moved backward. (A warning message will be shown on the multi-information display.)

#### CAUTION

##### ■ Seat adjustment

To reduce the risk of sliding under the lap belt during a collision, do not recline the seat more than necessary.

If the seat is too reclined, 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 in the event of an accident.

Adjustments should not be made while driving as the seat may unexpectedly move and cause the driver to lose control of the vehicle.

##### ■ Operating the front passenger's seat from the driver's seat or rear seat

Do not operate the front passenger's seat when a passenger is seated in it. In addition, do not let anyone sit down in the front passenger's seat while the seat is being operated. The front passenger may catch their legs between the instrument panel and seat, resulting in injury.

#### NOTICE

##### ■ Operating the front passenger's seat from the driver's seat or rear seat

Before operating the front passenger's seat, make sure that there is no luggage or any other objects on the seat or in the footwell that could prevent its operation.

Failure to do so may result in excess force being applied, causing damage to the seat and/or the luggage.

## 1-4. Adjustable components (seats, mirrors, steering wheel)

### Power rear seat (5-seat models) (if equipped)



**1** Seat selection switch

The indicator light for the seat that can be operated comes on.

**2** Seat position adjustment switch

**3** Seatback upper angle adjustment switch

**4** Head restraint height adjustment switch (→P. 89)

The seat return function linked to the door opening operation allows the seat to automatically return to the neutral position for easier access to and from the vehicle.

## Returning the rear seat from the front seats



The seat will return to the neutral position while the button is pressed and held.

1

Before driving

### ■ Canceling the seat return operation



Pressing the “C” button will disable the seat return function. When disabled, the seat will not return when the door is opened.

The indicator light comes on when the seat return function is disabled.

Pressing the button again will enable the seat return function.

Performing either of the following cancels the seat returning operation:

- Press the “SET”, “M” or “C” button.
- Press any of the seat adjustment switches.

### ■ Operating the seat return function after turning the hybrid system off

The seat will automatically return to the neutral position if the door is opened within 45 seconds after the “POWER” switch is turned to “OFF” mode.



 **CAUTION**

■ **Seat adjustment**

To reduce the risk of sliding under the lap belt during a collision, do not recline the seat more than necessary.

If the seat is too reclined, 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 in the event of an accident.

Adjustments should not be made while driving as the seat may unexpectedly move and cause the driver to lose control of the vehicle.

■ **When adjusting the seat position**

Keep sufficient footwell space to prevent your feet from being caught by the front seat.

■ **When returning the rear seats to the neutral position**

Wait until passengers are seated or have gotten off the rear seat before operating the switch to avoid injuring the passengers.

## Power rear seat (4-seat models)



The right-hand rear seat is a relaxation seat, which is equipped with a seatback angle adjustment function and an ottoman.

**1** Seat selection switch

The indicator light for the seat that can be operated comes on.

**2** Seat position adjustment switch

**3** Seatback upper angle adjustment switch

**4** Head restraint height adjustment switch (→P. 89)

**5** Seatback angle adjustment switch

**6** Ottoman angle adjustment switch

**7** Front passenger's seat control switch (→P. 73)

**8** Relaxation mode switch

The seat return function linked to the door opening operation allows the seat to automatically return to the neutral position for easier access to and from the vehicle.

### Returning the rear seat from the front seats



The seat will return to the neutral position while the button is pressed and held.

### Relaxation mode operation

Relaxation mode can be entered by operating a switch. The front passenger seat will move forward and then the seatback of the relaxation seat will recline and the ottoman will simultaneously rise.



1 Enters relaxation mode

2 Returns to the neutral position.

The signal beeps when either operation is completed.

### ■ Relaxation mode

Relaxation mode can be entered when the "POWER" switch is in "ON" mode. However, in the following situations, relaxation mode cannot be entered even when the switch is operated:

- The front passenger's seat belt is in use.
- The front passenger's door is open. (The front seat will not move forward.)

### ■ Canceling the seat return operation

When a rear door is opened, the seat on that side will automatically return to the neutral position.



Pressing the "C" button will disable the seat return function. When disabled, the seat will not return when the door is opened.

The indicator light comes on when the seat return function is disabled.

Pressing the button again will enable the seat return function.

Performing either of the following cancels the seat returning operation:

- Press the "SET", "M" or "C" button.
- Press any of the seat adjustment switches.

### ■ Operation after turning the hybrid system off

- The rear seat can be returned to the neutral position as long as the relaxation mode switch is operated within 45 seconds after the "POWER" switch is turned to "OFF" mode.
- The seat return function is available for 45 seconds after the "POWER" switch is turned to "OFF" mode.

### ■ Seat operation automatic stop function

If the rear seat and front passenger seat are going to come in contact with each other while either of them is being operated, the signal will beep and seat operation will stop.

### CAUTION

#### ■ Seat adjustment

To reduce the risk of sliding under the lap belt during a collision, do not recline the seat more than necessary.

If the seat is too reclined, 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 in the event of an accident.

Adjustments should not be made while driving as the seat may unexpectedly move and cause the driver to lose control of the vehicle.

#### ■ When adjusting the seat position and ottoman angle

Keep sufficient footwell space to prevent your feet from being caught by the front seat.

#### ■ When returning the rear seats to the neutral position

Wait until passengers are seated or have gotten off the rear seat before operating the switch to avoid injuring the passengers.

#### ■ Using the ottoman

- Do not sit on the ottoman.

If someone sits on the ottoman, the seat belt cannot be fitted properly, and they may be thrown from the seat, resulting in death or serious injury in the event of an accident or sudden braking.

- When getting in or out of the vehicle, retract the ottoman. If the ottoman is not retracted, it may cause a fall, resulting in injury.

### NOTICE

#### ■ To prevent an ottoman malfunction

- Do not place any objects in the rear seat footwell that could prevent the operation of the ottoman.
- Do not place heavy luggage on the ottoman.

### Driving position memory

Your preferred driving position (the position of the driver's seat and steering wheel, angle of the outside rear view mirrors, and height of seat belt) can be memorized and recalled with the touch of a button. It is also possible to set this function to activate automatically when the doors are unlocked. Three different driving positions can be entered into memory.

#### ■ Entering a position to memory

Check that the shift lever is set in "P".

**STEP 1** Turn the "POWER" switch to "ON" mode.

**STEP 2** Adjust the driver's seat, steering wheel, outside rear view mirrors and seat belt height to the desired positions.

**STEP 3**



While pressing the "SET" button, press button "1", "2" or "3" until the signal beeps.

If the selected button has already been preset, the previously recorded position will be overwritten.

#### ■ Recalling the memorized position

Check that the shift lever is set in "P".

**STEP 1** Turn the "POWER" switch to "ON" mode.

**STEP 2**



Press button "1", "2" or "3" to recall the memorized position.


### Linking driving position memory with door unlock operation

Record your driving position to button “1”, “2” or “3” before performing the following:

► Using the wireless remote control


**STEP 1** Turn the “POWER” switch to “OFF” mode and close the driver's door.



While pressing the desired button (“1”, “2” or “3”), press  on the wireless remote control until the signal beeps.

The driving position is recalled when the driver's door is unlocked using the entry function or wireless remote control and the driver's door is opened.

**STEP 3** Open one of the doors.

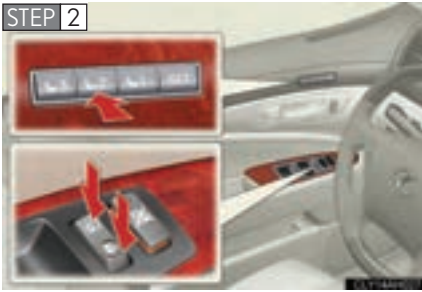
If a door is not opened within 60 seconds after  is pressed, the doors will be locked again and the alarm will automatically be set.

In case that the alarm is triggered, immediately stop the alarm.  
(→P.115)

► Using the door lock switch

Carry only the key (including the card key) to which you want to link the driving position. If 2 or more keys are in the vehicle, the driving position cannot be linked properly.

**STEP 1** Turn the "POWER" switch to "OFF" mode and close the driver's door.




While pressing the desired button ("1", "2" or "3"), press the lock or unlock side on the door lock switch (either the driver or passenger side) until the signal beeps.

The driving position is recalled when the driver's door is unlocked using the entry function or wireless remote control and the driver's door is opened.



### ■ Canceling the linked door unlock operation

**STEP 1** Turn the "POWER" switch to "OFF" mode and close the driver's door.

**STEP 2** Using the wireless remote control: While pressing the "SET" button, press  on the wireless remote control until the signal beeps.  
Using the door lock switch: While pressing the "SET" button, press the lock or unlock side on the door lock switch until the signal beeps.

### ■ Operating the driving position memory after turning the hybrid system off

Memorized positions (except the steering wheel position) can be recalled by operating button "1", "2" or "3" within 30 seconds after the driver's door has been opened even after the "POWER" switch is turned to "OFF" mode.

### ■ Stopping seat position operation part-way through

Perform any of the following operations:

- Press the "SET" button.
- Press button "1", "2" or "3".
- Adjust the seat using the switches (only cancels seat position recall).

### ■ When the retractable table is in use (4-seat models)

The seat operation will stop if a front seat is going to contact the retractable table while the seat is being moved backward. (A warning message will be shown on the multi-information display.)

### CAUTION

#### ■ Seat adjustment caution

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

## 1-4. Adjustable components (seats, mirrors, steering wheel)

### Rear seat position memory (if equipped)

The rear seat position can be memorized and recalled with the touch of a button.

#### ■ Entering a position to memory

**STEP 1** Turn the “POWER” switch to “ON” mode.

**STEP 2** Adjust the rear seat to the desired position.

**STEP 3**



Press the “SET” button until the signal beeps.

If the preset is being used, the previously recorded seat position will be overwritten.

#### ■ Recalling the memorized position



Press the “M” button until the signal beeps.

Relaxation seat: The memorized position will only be recalled if the ottoman is in a position higher than the memorized position. It will not move in an upward direction.

### ■ Seat return function linked to the door opening operation

When the door is opened, the rear seat will automatically return to the neutral position. This function is available for 45 seconds after the "POWER" switch is turned to "OFF" mode.

### ■ Operating the rear seat position memory after turning the hybrid system off

The seat will automatically return to the neutral position as long as the door is opened within 45 seconds after the "POWER" switch is turned to "OFF" mode.

### ■ Canceling the seat position recall or return operation

Perform any of the following operations:

- Press the "SET", "M" or "C" button.
- Adjust the seat position using the switches.

### ■ Canceling the seat return function

→P. 77, 81



## CAUTION

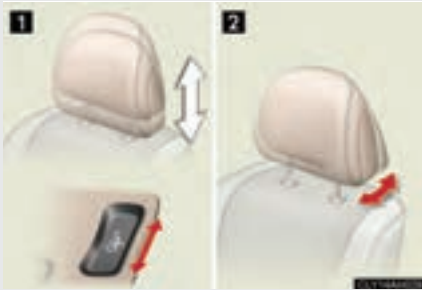
### ■ Seat adjustment caution

Take care during seat adjustment so that the rear passengers do not strike the front seats.

# 1-4. Adjustable components (seats, mirrors, steering wheel)

## Head restraints

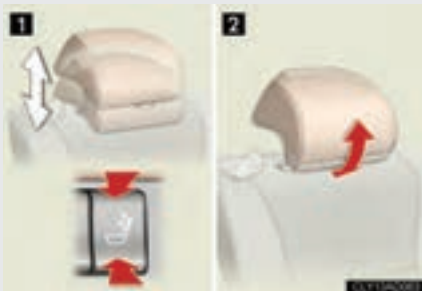
### ■ Front seats



- 1 Vertical adjustment  
→P.73
- 2 Horizontal adjustment

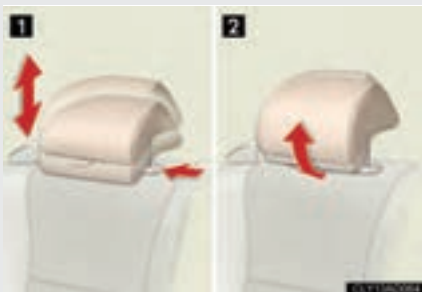
### ■ Outside rear seats

#### ► Power type (vehicles with power rear seat)



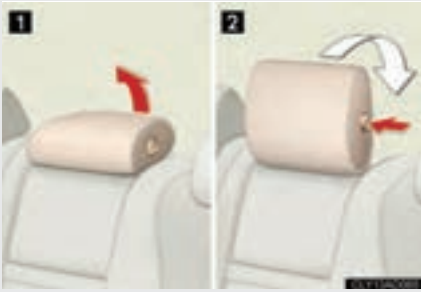
- 1 Vertical adjustment  
5-seat models: →P. 76  
4-seat models: →P. 79
- 2 Horizontal adjustment

#### ► Manual type



- 1 Vertical adjustment  
Push and hold the lock release button when lowering.
- 2 Horizontal adjustment

**■ Rear center seat (5-seat models)**



**1** To use

**2** To fold

**■ Removing the head restraints**

For removal and installation of the head restraint, contact your Lexus dealer.

**■ Adjusting the height of the head restraints (except rear center seat)**



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

**■ Head restraints of different seats**

The head restraints are specially designed for the seats on 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 restraints to the correct position at all times.
- Do not drive with the head restraints removed.

## 1-4. Adjustable components (seats, mirrors, steering wheel)

# Seat belts

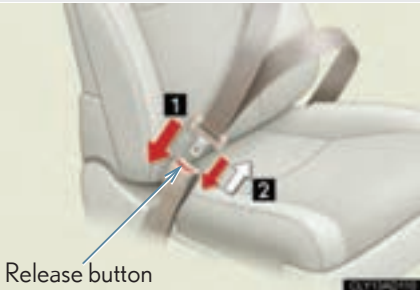
Make sure that all occupants are wearing their seat belts before driving the vehicle.

### ■ Correct use of the seat belts



- 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.
- Position the lap belt as low as possible over the hips.
- Adjust the position of the seatback. Sit up straight and well back in the seat.
- Do not twist the seat belt.

### ■ Fastening and releasing the seat belt



#### 1 Fastening the belt

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

#### 2 Releasing the belt

Press the release button. If the seat belt cannot be pulled out of the retractor, firmly pull the belt and release it.

### ■ Adjusting the seat belt shoulder anchor height (front seats)



- 1 Up
- 2 Down

### ■ Seat belt comfort guide (outside rear seats)



If the shoulder belt sits close to a person's neck, slide the seat belt comfort guide forward.

### ■ Seat belt pretensioners (front and outside rear seats)



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

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

### Pre-collision seat belts (front seats of vehicles with pre-collision system)

When the pre-collision sensor detects an obstacle and determines that a collision is unavoidable, the seat belts lessen collision injury by retracting the slack in the front seat belts before the collision, thus restraining the driver and passenger at an earlier stage.

The seat belts will also operate in the event of sudden braking. (→P. 229, 232)

#### ■ 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 so that you can move around fully.

#### ■ Automatic locking retractor (ALR)

When a passenger's shoulder belt is completely extended and then retracted even slightly, the belt is locked in that position and cannot be extended. This feature is used to hold the child restraint system (CRS) firmly. To free the belt again, fully retract the belt and then pull the belt out once more. (→P. 143)

#### ■ Pregnant women



Obtain medical advice and wear the seat belt in the proper way. (→P. 91)

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 round part of the abdominal area.

If the seat belt is not worn properly, not only the 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

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

- Use a child restraint system appropriate for the child, until the child becomes large enough to properly wear the vehicle's seat belt. (→P. 139)
- When the child becomes large enough to properly wear the vehicle's seat belt, follow the instructions on P. 91 regarding seat belt usage.

### ■ Automatic adjustment of the seat belt shoulder anchor height (driver's seat only)

A desired seat belt shoulder anchor height can be entered to memory and recalled automatically by the driving position memory. (→P. 83)


### ■ Replacing the belt after the pretensioner has been activated

The seat belts cannot be used after a pretensioner has been activated. After an accident, have your Lexus dealer inspect the pretensioners. Make sure the pretensioners are replaced if they have been activated.

### ■ 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.

Failure to do so may cause death or severe injury.

- Ensure that all passengers wear a seat belt.
- Always wear a seat belt properly.
- Each seat belt should be used by one person only. Do not use a seat belt for more than one person at once, including children.
- Lexus recommends that children be seated in the rear seat and always use a seat belt and/or an appropriate child restraint system.
- To achieve a proper seating position, do not recline the seat more than necessary. 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.

**■ Seat belt pretensioners**

Do not place anything, such as a cushion, on the front passenger's seat. Doing so will disperse the passenger's weight, which prevents the sensor from detecting the passenger's weight properly. As a result, the seat belt pretensioner for the front passenger's seat may not activate in the event of a collision.

 **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.
- Inspect the seat belt system periodically. Check for cuts, fraying, and loose parts. Do not use a damaged seat belt until it is replaced. Damaged seat belts cannot protect an occupant from death or serious injury.
- Ensure that the belt and plate 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 the seat belts. Have any necessary repairs carried out by your Lexus dealer. Inappropriate handling of the pretensioner may prevent it from operating properly, resulting in death or serious injury.

■ **Precaution for pre-collision seat belts**

Do not rely on the pre-collision system to avoid accidents. Always pay attention to the surrounding conditions, and drive safely and responsibly.

■ **Using a 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.

 NOTICE

■ **When using a seat belt extender**

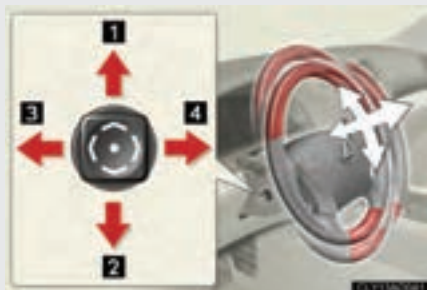
When releasing the seat belt, press on the buckle release button on the extender, not on the seat belt.

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

## 1-4. Adjustable components (seats, mirrors, steering wheel)

### Steering wheel

The steering wheel can be adjusted to a comfortable position while the "POWER" switch is in "ACC" or "ON" mode.



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

#### Auto tilt away




When the "POWER" switch is turned to "OFF" mode, the steering wheel returns to its stowed position by moving up and away to enable easier driver entry and exit.

Turning the "POWER" switch to "ACC" or "ON" mode will return the steering wheel to the original position.

#### ■ Automatic adjustment of the steering position

A desired steering position can be entered to memory and recalled automatically by the driving position memory. (→P. 83)

 **CAUTION**

■ **Caution while driving**

Do not adjust the steering wheel while driving.

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

## 1-4. Adjustable components (seats, mirrors, steering wheel)

### Anti-glare inside rear view mirror

In automatic mode, sensors are used to detect the headlights of vehicles behind and automatically reduce the reflected light.



Turns automatic mode on/off

The indicator comes on when automatic mode is turned on.

The mirror will revert to automatic mode each time the "POWER" switch is turned to "ON" mode.

#### ■ To prevent sensor error



To ensure that the sensors operate properly, do not touch or cover them.

#### ⚠ CAUTION

##### ■ Caution while driving

Do not adjust the position of the mirror while driving.

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

### Outside rear view mirrors

Mirror angle can be adjusted using the switch when the “POWER” switch is in “ACC” or “ON” mode.



- 1 Selects a mirror to adjust (“L”: left or “R”: right)
- 2 Adjusts the mirror up, down, in, or out using the switch

### Folding and extending the mirrors



- 1 Folds the mirrors
- 2 Extends the mirrors

Putting the outside rear view mirror folding switch in the neutral position sets the mirrors to automatic mode. Automatic mode allows the folding or extending of the mirrors to be linked to locking/unlocking of the doors.

#### ■ When the mirrors are fogged up

Turn on the mirror defoggers to defog the mirrors. (→P. 289)

#### ■ Automatic adjustment of the mirror angle

A desired mirror face angle can be entered to memory and recalled automatically by the driving position memory. (→P. 83)



### ■ Linked mirror function when reversing

The outside rear view mirrors will automatically angle downwards when the vehicle is reversing in order to give a better view of the ground. However, this function will not operate when the mirror select switch is in the neutral position (between "L" and "R").

### ■ Auto anti-glare function

When the anti-glare inside rear view mirror is set to automatic mode, the outside rear view mirrors will activate in conjunction with the anti-glare inside rear view mirror to reduce reflected light. (→P.100)

### CAUTION

#### ■ When driving the vehicle

Observe the following precautions while driving.

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

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

#### ■ When a mirror is moving

To avoid personal injury and mirror malfunction, be careful not to get your hand caught by the moving mirror.

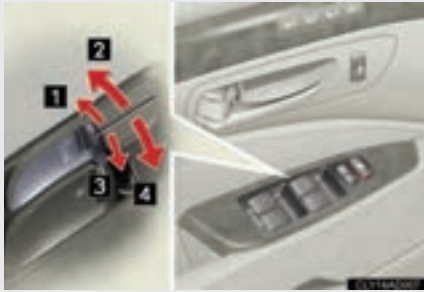
#### ■ When the mirror defoggers are operating

Do not touch the surface of the mirror, as it may be hot.

## 1-5. Opening and closing the windows and moon roof

### 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.

1

Before driving

### Lock switch



Press the switch down to lock passenger window switches.

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

#### ■ The power windows can be operated when

The "POWER" switch is in "ON" mode.

#### ■ Door lock linked window operation

- The power windows can be opened and closed using the mechanical key. (→P. 624)
- The power windows can be opened using the wireless remote control. (→P. 60)
- The power windows can be closed using the entry function. (→P. 47)

### ■ Operating the power windows after turning the hybrid system off

The power windows can be operated for approximately 45 seconds even after the "POWER" switch is turned to "ACC" or "OFF" mode. They cannot, however, be operated once either front 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.

### ■ Customization

Settings (e.g. linked door lock operation) can be changed. (→P. 661)

## CAUTION

### ■ Closing the windows

Observe the following precautions.

Failure 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.  
Closing a power window on someone can cause serious injury, and in some instances, even death.

### ■ Jam protection function

- Never use any part of your body to intentionally activate the jam protection function.
- The jam protection function may not work if something gets caught just before the window fully closes.

## 1-5. Opening and closing the windows and moon roof

### Moon roof (if equipped)

Use the overhead switches to open, close, and tilt the moon roof up and down.

#### ■ Opening and closing



##### 1 Open

The moon roof stops slightly before the fully open position to reduce wind noise. Press the switch again to fully open.

##### 2 Close

Lightly press either of the moon roof switches to stop the moon roof partway.

#### ■ Tilting up and down



##### 1 Tilt up

##### 2 Tilt down

Lightly press either of the roof switches to stop the moon roof partway.

### ■ The moon roof can be operated when

The "POWER" switch is in "ON" mode.

### ■ Moon roof open warning buzzer

The buzzer sounds and a message is shown on the multi-information display in the instrument cluster when the "POWER" switch is turned to "OFF" mode and the driver's door is opened with the moon roof open.

### ■ Door lock linked moon roof operation

- The moon roof can be opened and closed using the mechanical key. (→P. 624)
- The moon roof can be opened using the wireless remote control. (→P. 60)
- The moon roof can be closed using the entry function. (→P. 47)

### ■ Operating the moon roof after turning the hybrid system off

The moon roof can be operated for approximately 45 seconds even after the "POWER" switch is turned to "ACC" or "OFF" mode. It cannot, however, be operated once either front door is opened.

### ■ Jam protection function

If an object is detected between the moon roof and the frame while closing or tilting down, travel is stopped and the moon roof opens slightly.

### ■ When the moon roof does not close normally

Pressing and holding the "CLOSE" switch will close the moon roof.

### ■ Sunshade

The sunshade can be opened and closed manually. However, the sunshade will open automatically when the moon roof is opened.

### ■ Customization

Settings (e.g. linked door lock operation) can be changed. (→P. 661)

 **CAUTION****■ Opening the moon roof**

Observe the following precautions.

Failure to do so may cause death or serious injury.

- Do not allow any passengers to put their hands or heads outside the vehicle while it is moving.
- Do not sit on top of the moon roof.

**■ Closing the moon roof**

Observe the following precautions.

Failure 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 the moon roof is being operated.
- Do not allow children to operate the moon roof.  
Closing the moon roof on someone can cause death or serious injury.

**■ Jam protection function**

- Never use any part of your body to intentionally activate the jam protection function.
- The jam protection function may not work if something gets caught just before the moon roof fully closes.

## 1-6. Refueling

### Opening the fuel tank cap

The fuel tank of your vehicle has a special structure, which requires a reduction in fuel tank pressure before refueling. After the opener switch has been pressed, it will take several seconds until the vehicle is ready for refueling.

#### ■ Before refueling the vehicle

Close all the doors and windows, and turn the “POWER” switch to “OFF” mode.

#### ■ Opening the fuel tank cap



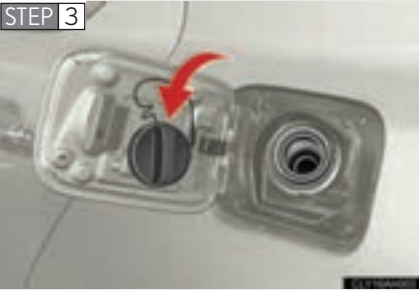
Press the opener switch.

The fuel filler door will open within about 10 seconds of the switch being pressed. Before refueling is possible, a message will be shown on the multi-information display in the instrument cluster to indicate the progress of the fuel filler door opener.



Turn the fuel tank cap slowly to open.

STEP 3



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

### Closing the fuel tank cap



When replacing the fuel tank cap, turn it until a clicking sound is heard.

After releasing your hand, the cap will turn slightly to the opposite direction.



### ■ Fuel types

Premium unleaded gasoline (91 Octane rating [Research Octane Number 96] or higher)

### ■ Fuel tank capacity

Approximately 22.1 gal. (84 L, 18.4 Imp. gal.)

### ■ When the fuel filler door opener is inoperable



- If the fuel filler door opener switch cannot be operated, contact your Lexus dealer to service the vehicle. In case where refueling is urgently necessary, the fuel filler door can be opened using the lever in the trunk.

- Using the lever to open the fuel filler door may not allow for an adequate reduction in fuel tank pressure before refueling. To prevent fuel from spilling out, turn the cap slowly when removing it. During refueling, fuel may spill out from the filler opening due to air being discharged from inside the fuel tank. Therefore, fill the fuel tank carefully and slowly.

 **CAUTION****■ Refueling the vehicle**

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

- After exiting the vehicle and before opening the fuel door, touch an unpainted metal surface to discharge any static electricity. It is important to discharge static electricity before refueling because sparks resulting from static electricity can cause fuel vapors to ignite while refueling.
- Always hold the grips 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 body to come close to an open fuel tank.
- Do not inhale vaporized fuel.  
Fuel contains substances that are harmful 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.

**■ When replacing the fuel cap**

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

### NOTICE

#### ■ Refueling

- Finish refueling within 30 minutes. If more than 30 minutes passes, the internal valve closes. In this condition, fuel may overflow during the refueling process. Press the fuel filler door opener switch again.
- Do not spill fuel during refueling. Doing so may damage the vehicle, such as causing the emission control system to operate abnormally or damaging fuel system components or the vehicle's painted surface.

## 1-7. Theft deterrent system Immobilizer system

The vehicle's keys have built-in transponder chips that prevent the hybrid system from starting if a key has not been previously registered in the vehicle's on-board computer.

Never leave the keys inside the vehicle when you leave the vehicle.



The indicator light flashes after the "POWER" switch has been turned to "OFF" mode to indicate that the system is operating.

1

Before driving

### ■ System maintenance

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

### ■ Conditions affecting operation

Depending on surrounding environment and conditions, the immobilizer system may not operate properly. This may prevent the hybrid system from starting. (→P. 51)

### ■ Certifications for the immobilizer system

► U.S.A.

NOTE:

FCC ID: NI4TMIMB-1

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

FCC WARNING:

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

► 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**

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

 **NOTICE**

■ **To prevent damage to the key**

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

# Alarm

The system sounds the alarm and flashes the vehicle lights when an attempt to steal the vehicle is detected.

### ■ Triggering of the alarm

The alarm is triggered in the following situations:

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

### ■ Setting the alarm system



Close the doors, trunk and hood, and lock all doors.

The system will be set automatically after 30 seconds.

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

### ■ Deactivating or stopping the alarm

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

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

### ■ Items to check before locking the vehicle

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

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


### ■ Triggering of the alarm

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

- The windows and moon roof are closed using a wireless remote control or mechanical key.
- A person inside the vehicle opens a door, the trunk or hood.
- The 12-volt battery is recharged or replaced when the vehicle is locked.

### ■ Panic mode



When  is pressed for longer than about one second, an alarm will sound for about 60 seconds and the vehicle lights flash to deter any person from trying to break into or damage your vehicle.

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

## 1-7. Theft deterrent system

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



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 in a good posture as follows:



- 1 Sit upright and well back in the seat. (→P. 73)
- 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. 73)
- 3 Adjust the seatback so that the controls are easily operable.
- 4 Adjust the tilt and telescopic positions of the steering wheel downward so the SRS driver airbag is facing your chest. (→P. 98)
- 5 Adjust the head restraint in place with the center of the head restraint closest to the top of your ears. (→P. 89)
- 6 Wear the seat belt correctly. (→P. 91)

 **CAUTION****■ While 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 seatback.  
A cushion may prevent correct posture from being achieved, and reduce the effectiveness of the seat belt and head restraint, increasing the risk of death or serious injury to the driver or passenger.
- Do not place anything under the front seats.  
Objects placed under the front seats may become jammed in the seat tracks and stop the seat from locking in place. This may lead to an accident. The adjustment mechanism may also be damaged.

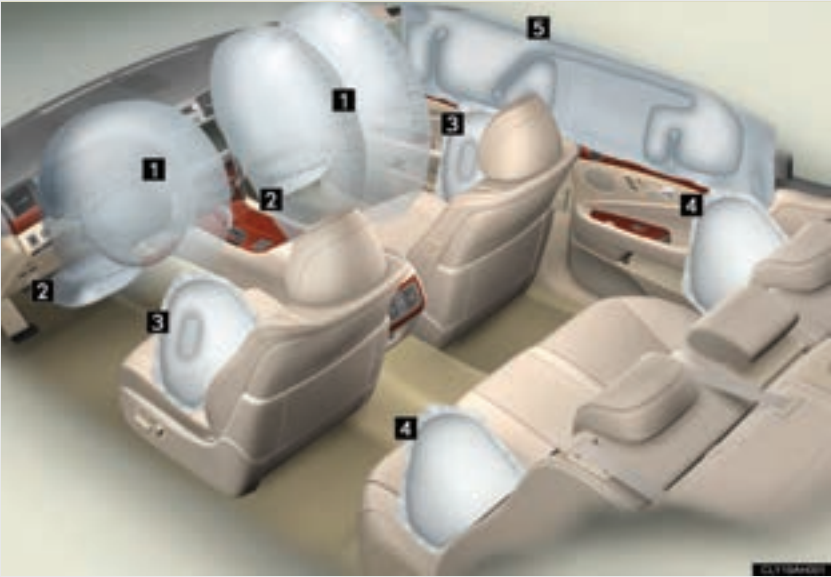
**■ Adjusting the seat position**

- 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.  
Fingers or hands may become jammed in the seat mechanism.

## 1-8. 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.



### ► SRS front airbags

#### 1 SRS driver airbag/front passenger airbag

Can help protect the head and chest of the driver and front passenger from impact with interior components

#### 2 SRS knee airbags

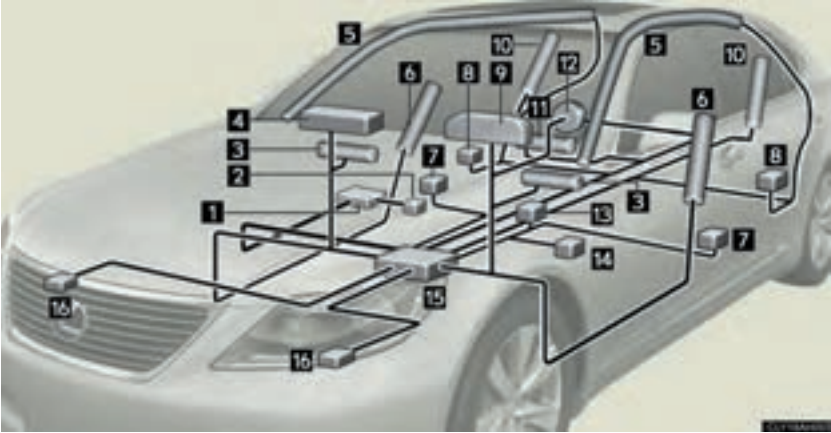
Can help protect the knees of the driver and front passenger

- ▶ SRS side and curtain shield airbags
- 3 Front SRS side airbags
  - Can help protect the torso of the front seat occupants
- 4 Rear SRS side airbags (with power rear seat only)
  - Can help protect the torso of the outside rear seat occupants
- 5 SRS curtain shield airbags
  - Can help protect primarily the head of outside occupants



- 6 SRS seat cushion airbag (with relaxation seat only)
  - Can help restrain the relaxation seat occupant

## SRS airbag system components



- |   |  |
|---|--|
| <b>1</b> Front passenger occupant classification sensor | <b>9</b> SRS warning light                 |
| <b>2</b> Front passenger's seat belt buckle switch      | <b>10</b> Rear side airbags                |
| <b>3</b> Knee airbags                                   | <b>11</b> Seat cushion airbag              |
| <b>4</b> Front passenger airbag                         | <b>12</b> Driver airbag                    |
| <b>5</b> Curtain shield airbags                         | <b>13</b> Driver's seat belt buckle switch |
| <b>6</b> Front side airbags                             | <b>14</b> Driver's seat position sensor    |
| <b>7</b> Side and curtain shield airbag sensors         | <b>15</b> Airbag sensor assembly           |
| <b>8</b> Curtain shield airbag sensors                  | <b>16</b> Front airbag sensors             |

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

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

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

---

### ■ SRS warning light

This warning light system monitors the airbag sensor assembly, front airbag sensors, side and curtain shield airbag sensor assemblies, curtain shield airbag sensor assemblies, driver's seat position sensor, driver's seat belt buckle switch, front passenger occupant classification system, "AIR BAG ON" indicator light, "AIR BAG OFF" indicator light, front passenger's seat belt buckle switch, seat belt pretensioner assemblies, inflators, interconnecting wiring and power sources.  
(→P. 600)

### ■ 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 will be emitted.
- Parts of the airbag module (steering wheel hub, airbag cover and inflator) as well as the seats, and parts of the front pillar and roof side rail, may be hot for several minutes. The airbag itself may also be hot.
- The front windshield may crack.

### ■ Operating conditions (SRS front airbags and SRS seat cushion airbag)

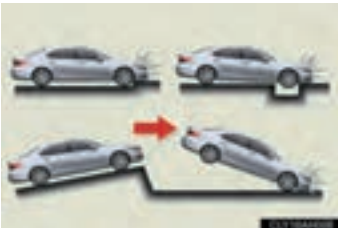
- The SRS front airbags and SRS seat cushion airbag will deploy if the severity of the frontal impact is above the designed threshold level, comparable to an approximate 15 mph (25 km/h) collision when the vehicle impacts straight into a fixed barrier that does not move or deform.

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, SRS seat cushion airbag 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 SRS front passenger airbag may deploy if luggage is put in the seat, or the seat belt is fastened, even if the seat is unoccupied.(→P. 91)

### ■ Conditions under which the SRS airbags may deploy (inflate), other than a collision (SRS front airbags and SRS seat cushion airbag)

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



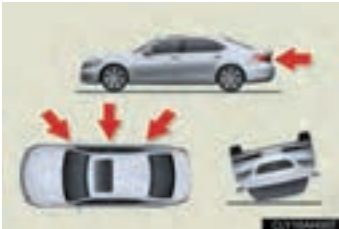
- Hitting a curb, edge of pavement or hard surface
- Falling into or jumping over a deep hole
- Landing hard or vehicle falling

### ■ Operating conditions (SRS side and curtain shield airbags)

- The SRS side airbags and curtain shield airbags are designed to inflate when the passenger compartment is subjected to certain types of severe impacts from the side.
- The front SRS side airbag on the passenger seat will not activate if there is no passenger sitting in the front passenger seat. However, the front SRS side airbag on the passenger seat may deploy if luggage is put in the seat, even if the seat is unoccupied. (→P. 91)

### ■ Types of collisions that may not deploy the SRS airbags (SRS front airbags and SRS seat cushion airbag)

The SRS front airbags and SRS seat cushion airbag 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 and SRS seat cushion airbag may occur.



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



### ■ Types of collisions that may not deploy the SRS airbags (SRS side and curtain shield airbags)

The SRS side airbag and curtain shield 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 and curtain shield 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.

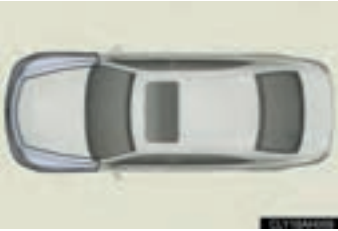


- Collision from the front
- Collision from the rear
- Vehicle rollover

## ■ When to contact your Lexus dealer

In the following cases, contact your Lexus dealer as soon as possible. Do not disconnect the 12-volt battery cables before contacting them.

- Any of the SRS airbags has been inflated.



- The front of the vehicle is damaged or deformed, or was involved in an accident that was not severe enough to cause the SRS airbags to inflate.



- A portion of the doors is damaged or deformed, or the vehicle was involved in an accident that was not severe enough to cause the SRS side airbags and curtain shield airbags to inflate.



- The pad section of the steering wheel, dashboard near the front passenger airbag or lower portion of the instrument panel is scratched, cracked, or otherwise damaged.



- With relaxation seat only: The seat cushion surface is scratched, cracked, or otherwise damaged.



- The surface of the seats with the side air-bag is scratched, cracked, or otherwise damaged.
- The portion of the front pillars, rear pillars or roof side rail garnishes (padding) containing the curtain shield airbags inside is scratched, cracked, or otherwise damaged.

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

Observe the following precautions regarding the SRS 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 the seat belts.
- The SRS driver airbag deploys with 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 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 SRS driver's airbag may not activate correctly in a collision, resulting in death or serious injury in the event of a collision. Be sure to wear the seat belt with the seat belt extender.
- The SRS front passenger airbag also deploys with 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.
- Improperly seated and/or restrained infants and children can be killed or seriously injured by a deploying airbag. 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.139)

 CAUTION

 SRS airbag precautions


- Do not sit on the edge of the seat or lean against the dashboard.
- Do not allow a child to sit on the knees of a front passenger while the vehicle is moving.
- Do not drive the vehicle while the driver or passenger have items resting on their knees.
- Do not lean against the door, the roof side rail or the front, side and rear pillars.
- Do not allow anyone to kneel on the passenger seats toward the door or put their head or hands outside the vehicle.

**⚠ CAUTION**

**■ SRS airbag precautions**



- Do not attach anything to or lean anything against areas such as the dashboard, steering wheel pad or lower portion of the instrument panel.

These items can become projectiles when SRS driver, front passenger and knee airbags deploy.



- Do not attach anything to areas such as the door, windshield glass, side door glass, front and rear pillars, roof side rail or assist grip.

- Do not hang coat hangers or other hard objects on the coat hooks. All of these items could become projectiles and seriously injure or kill you, should the SRS curtain shield airbag deploy.
- If a vinyl cover is put on the area where the SRS knee airbag will deploy, be sure to remove it.
- Do not use seat accessories which cover the parts where the SRS side airbags and SRS seat cushion airbag inflate as they may interfere with inflation of the SRS airbags.
- Do not strike or apply significant levels of force to the area of the SRS airbag components shown on P.122.  
Doing so can cause the SRS airbags to malfunction.
- Do not touch any of the component parts immediately after the SRS airbags have deployed (inflated) as they may be hot.
- If breathing becomes difficult after the SRS airbags have deployed, 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 and front pillar garnish, are damaged or cracked, have them replaced by your Lexus dealer.

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

- Do not place anything, such as a cushion, on the front passenger's seat. Doing so will disperse the passenger's weight, which prevents the sensor from detecting the passenger's weight properly. As a result, the SRS front passenger airbag may not deploy in the event of a collision.

**■ Modification and disposal of SRS airbag system components**

Do not dispose of your vehicle or perform any of the following modifications without consulting your Lexus dealer.

The SRS airbags may malfunction or 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, front, side and rear pillars or roof side rails
- Repairs or modifications 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 mobile two-way radios or CD players
- Modifications to your vehicle for a person with a physical disability



## 1-8. Safety information

### Front passenger occupant classification system

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



- 1 SRS warning light
- 2 Front passenger's seat belt reminder light
- 3 "AIR BAG OFF" indicator light
- 4 "AIR BAG ON" indicator light

## Conditions and operation of the front passenger occupant classification system

### ■ Adult<sup>\*1</sup>

Indicator/ warning light	“AIR BAG ON” and “AIR BAG OFF” indicator lights	“AIR BAG ON”
	SRS warning light	Off
	Front passenger’s seat belt reminder light	Flashing <sup>*2</sup>
Devices	Front passenger airbag	Activated
	Side airbag on the right side passenger seats	
	Curtain shield airbag in the front passenger side	
	Front passenger knee airbag	
	Front passenger’s seat belt pretensioner	

1

Before driving

### ■ Child<sup>\*3</sup> or child restraint system<sup>\*4</sup>

Indicator/ warning light	“AIR BAG ON” and “AIR BAG OFF” indicator lights	“AIR BAG OFF” <sup>*5</sup>
	SRS warning light	Off
	Front passenger’s seat belt reminder light	Flashing <sup>*2</sup>
Devices	Front passenger airbag	Deactivated
	Side airbag on the right side passenger seats	
	Curtain shield airbag in the front passenger side	Activated
	Front passenger knee airbag	Deactivated
	Front passenger’s seat belt pretensioner	Activated

■ **Unoccupied**

Indicator/ warning light	"AIR BAG ON" and "AIR BAG OFF" indicator lights	Not illuminated
	SRS warning light	Off
	Front passenger's seat belt reminder light	
Devices	Front passenger airbag	Deactivated
	Side airbag on the right side passenger seats	
	Curtain shield airbag in the front passenger side	Activated
	Front passenger knee airbag	Deactivated
	Front passenger's seat belt pretensioner	

■ **There is a malfunction in the system**

Indicator/ warning light	"AIR BAG ON" and "AIR BAG OFF" indicator lights	"AIR BAG OFF"
	SRS warning light	On
	Front passenger's seat belt reminder light	Off
Devices	Front passenger airbag	Deactivated
	Side airbag on the right side passenger seats	
	Curtain shield airbag in the front passenger side	Activated
	Front passenger knee airbag	Deactivated
	Front passenger's seat belt pretensioner	Activated

- \*1: The system judges a person of adult size as an adult. When a smaller adult sits in the front passenger seat, the system may recognize him/her as a child depending on his/her physique and posture.
- \*2: In the event the front passenger does not wear a seat belt
- \*3: When a larger child who has outgrown a child restraint system sits in the front passenger seat, the system may recognize him/her as an adult depending on his/her physique or posture.

- \*4: Never install a rear-facing child restraint system on the front passenger seat. A forward-facing child restraint system should only be installed on the front passenger seat when it is unavoidable. (→P. 139)
- \*5: In case the indicator light is not illuminated, consult this manual on how to install the child restraint system properly. (→P. 143)

 **CAUTION****■ Front passenger occupant classification system precautions**

Observe the following precautions regarding front passenger occupant classification system.

Failure to do so may cause death or serious injury.

- Wear the seat belt properly.
- Make sure the front passenger's seat belt plate has not been left inserted into the buckle before someone sits in the front passenger seat.
- Make sure the "AIR BAG OFF" indicator light is not illuminated when using the seat belt extender for the front passenger seat. If the "AIR BAG OFF" indicator light is illuminated, disconnect the extender tongue from the seat belt buckle, and reconnect the seat belt. Reconnect the seat belt extender after making sure the "AIR BAG ON" indicator light is illuminated. If you use the seat belt extender while the "AIR BAG OFF" indicator light is illuminated, the front passenger airbag, side airbag on the front passenger side and front passenger knee airbag may not activate correctly, which could cause death or serious injury in the event of a collision.
- Do not put weight on the front passenger seat by putting your hands or feet on the front passenger seat seatback from the rear passenger seat.
- Do not let a rear passenger lift the front passenger seat with their feet or press on the seatback with their legs.
- Do not put objects under the front passenger seat.

 CAUTION

■ **Front passenger occupant classification system precautions**

- Do not recline the front passenger seatback so far that it touches a rear seat. This may cause the “AIR BAG OFF” indicator light to be illuminated, which indicates that the passenger’s airbags will not deploy in the event of a severe accident. If the seatback touches the rear seat, return the seatback to a position where it does not touch the rear seat. Keep the front passenger seatback as upright as possible when the vehicle is moving. Reclining the seatback excessively may lessen the effectiveness of the seat belt system.
- If an adult sits in the front passenger seat, the “AIR BAG ON” indicator light is illuminated. If the “AIR BAG OFF” indicator is illuminated, ask the passenger to sit up straight, well back in the seat, feet on the floor, and with the seat belt worn correctly. If the “AIR BAG OFF” indicator still remains illuminated, either ask the passenger to move to the rear seat, or if that is not possible, move the front passenger seat fully rearward.
- When it is unavoidable to install a forward-facing child restraint system on the front passenger seat, install the child restraint system on the front passenger seat in the proper order. (→P.143)
- Do not modify or remove the front seats.
- Do not kick the front passenger seat or subject it to severe impact. Otherwise, the SRS warning light may come on to indicate a malfunction of the detection system. In this case, contact your Lexus dealer immediately.
- Child restraint systems installed on the rear seat should not contact the front seatbacks.
- Do not use a seat accessory, such as a cushion or seat cover, that covers the seat cushion surface.
- Do not modify or replace the upholstery of the front seat.

# Child restraint systems

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

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

### 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 appropriate to the age and size of the child.
- For installation details, follow the instructions provided with the child restraint system.  
General installation instructions are provided in this manual. (→P.143)

### Types of child restraints

Child restraint systems are classified into the following 3 types according to the age and size of the child.

#### ► Infant seat



► Convertible seat



► Booster seat



■ When installing a child restraint system on a rear outboard seat (power rear seat only)



When using a child restraint system in a rear outboard seat, adjust the following:

- The upper seatback to the rearmost position
- 4-seat models: The seatback to the most upright position
- The seat cushion to the fully rearward position
- The head restraint to the lowest and rearmost position

### ■ When installing a child restraint system on the front passenger seat



When you have to use a child restraint system on the front passenger seat, adjust the following:

- The seatback to the most upright position
- The seat cushion to the fully rearward and highest position
- The seat belt height to the lowest position

### ■ 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.

### ■ Selecting an appropriate child restraint system

Get an appropriate child restraint system for the child. If the child is too large for a child restraint system, sit the child on a rear seat and use the vehicle's seat belt. (→P. 91)



### 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 the use of a proper child restraint system that conforms to the size of the child, installed on the rear seat. According to accident statistics, the child is safer when properly restrained in the rear seat than in the front seat.
- Never install a rear-facing child restraint system on the front passenger seat even if the "AIR BAG OFF" indicator light is illuminated. In the event of an accident, the force of the rapid inflation of the front passenger airbag can cause death or serious injury to the child if the rear-facing child restraint system is installed on the front passenger seat.
- A forward-facing child restraint system should be allowed to be installed on the front passenger seat only when it is unavoidable. Always move the seat as far back as possible even if the "AIR BAG OFF" indicator light is illuminated, because the front passenger airbag could inflate with 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 a 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, front pillar or roof side rail from which the SRS side airbags or SRS curtain shield airbags deploy even if the child is seated in the child restraint system. It is dangerous if the side airbags and curtain shield 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 to the outside rear seats using a seat belt or child restraint lower anchor belts. 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. 91)



- 2** Child restraint lower anchors  
Lower anchors are provided for the rear outside seats. (Buttons displaying the location of the anchors are attached to the seats.)



- 3** Anchor bracket (for top strap)  
Anchor brackets are provided for each rear seat.

**Installing child restraints using a seat belt (child restraint lock function belt)**

**■ Rear-facing child restraint system— Infant/convertible**

**STEP 1**



Place the child restraint system on the rear seat facing 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 allow it to retract to put it in lock mode. In lock mode, the belt cannot be extended.

STEP 4



While pushing the child restraint system down into the rear seat, allow the shoulder belt to retract until the child restraint system 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 seat

STEP 1



Place the child restraint system on the seat facing the front of the vehicle.

STEP 2



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

STEP 3



Fully extend the shoulder belt and allow it to retract to put it in lock mode. In lock mode, the belt cannot be extended.



While pushing the child restraint system into the rear seat, allow the shoulder belt to retract until the child restraint system 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 seat



Place the child restraint system on the seat facing the front of the vehicle.



Sit the child in the child restraint system. Fit the seat belt to the child restraint system according to the 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. 91)

## Removing a child restraint installed with a seat belt



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

1

Before driving

## Installation with child restraint lower anchors



**STEP 1** Widen the gap between the seat cushion and seat-back slightly.

**STEP 2** Latch the hooks of the lower straps onto the anchors.

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

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

► Type A



► Type B

**STEP 1** Widen the gap between the seat cushion and seatback slightly.

**STEP 2** Latch the buckles onto the anchors.

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

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

### Child restraint systems with a top strap



Secure the child restraint using a seat belt or lower anchors, and move the head restraint in place at the lowest position. (→P. 89)

STEP 2



Open the anchor bracket cover, latch the hook onto the anchor bracket and tighten the top strap.

Make sure the top strap is securely latched.

1

Before driving

### ■ Laws and regulations pertaining to anchorages

Anchorage conform to FMVSS225 or CMVSS210.2.

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

This vehicle is designed to conform to the SAE J1819.

### ⚠ CAUTION

#### ■ When installing a booster seat

To prevent the belt from going into ALR lock mode, do not fully extend the shoulder belt. (→P. 93)

- ALR mode causes the belt to tighten only. This could cause injury or discomfort to the child.
- Do not allow the child to play with the seat belt or the child could be killed or seriously injured.



**! CAUTION**

**■ When installing a child restraint system**

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

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




- If the driver's seat interferes with the child restraint system and prevents it from being attached correctly, attach the child restraint system to the right-hand rear seat.



- Only put a forward-facing child restraint system on the front seat when unavoidable. When installing a forward-facing child restraint on the front passenger seat, move the seat as far back as possible even if the "AIR BAG OFF" indicator light is illuminated. Failure to do so may result in death or serious injury 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. Failure 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 restraint system in different directions to be sure it is secure.
- Follow all installation instructions provided by the child restraint system manufacturer.

 **CAUTION****■ Do not use a seat belt extender**

If a seat belt extender is used when installing a child restraint system, 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 a collision.

**■ To correctly attach a child restraint system to the anchors**

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



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## 2-1. Driving procedures

# Driving the vehicle

The following procedures should be observed to ensure safe driving:

### ■ Starting the hybrid system (→P. 163)

#### ■ Driving

**STEP 1** With the brake pedal depressed, shift the shift lever to “D”.  
(→P.169)

**STEP 2** Release the parking brake. (→P.174)

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

#### ■ Stopping

**STEP 1** With the shift lever in “D”, depress the brake pedal.

**STEP 2** If necessary, set the parking brake.

When the vehicle is stopped for an extended period of time, shift the shift lever to “P”.  
(→P.169)

#### ■ Parking the vehicle

**STEP 1** With the shift lever in “D”, depress the brake pedal.

**STEP 2** Set the parking brake. (→P.174)

**STEP 3** Shift the shift lever to “P”. (→P.169)

**STEP 4** Press the “POWER” switch and stop the hybrid system.

**STEP 5** Lock the door, making sure that you have the electronic key on your person.

### Starting on a steep uphill

**STEP 1** Set the parking brake and shift the shift lever to “D”.

**STEP 2** Gently depress the accelerator pedal.

**STEP 3** Release the parking brake.

### ■ Driving in the rain

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

### ■ Breaking in your new Lexus

To extend the life of the vehicle, the following precautions are recommended to observe:

- For the first 186 miles (300 km):  
Avoid sudden stops.
- For the first 621 miles (1000 km):
  - Do not drive at extremely high speeds.
  - Avoid sudden acceleration.
  - Do not drive continuously in the low range in the “S” position.
  - Do not drive at a constant speed for extended periods.

### ■ Drum-in-disc type parking brake system

Your vehicle has a drum-in-disc type parking brake system. This type of brake system needs bedding-down of the brake shoes periodically or whenever the parking brake shoes and/or drum are replaced. Have your Lexus dealer perform the bedding down.

### ■ Operating your vehicle in a foreign country


Comply with the relevant vehicle registration laws and confirm the availability of the correct fuel. (→P. 638)

### ■ For efficient use

- Put the shift lever into “D” when driving.  
In the “N” position, the gasoline engine operates but electricity cannot be generated. The hybrid battery (traction battery) will be discharged, requiring unnecessary engine power to recharge.
- Drive your vehicle smoothly.  
Avoid abrupt acceleration and deceleration. Gradual acceleration and deceleration will make more effective use of the electric motor (traction motor) without having to use gasoline engine power.
- Avoid repeated acceleration.  
Repeated acceleration consumes hybrid battery (traction battery) power, resulting in poor acceleration. Battery power can be restored by driving with the accelerator pedal slightly released.
- Put the shift lever into “P” when parking.  
In the “N” position, the hybrid battery (traction battery) does not recharge. Leaving the shift lever in the “N” position for an extended period of time may discharge the hybrid battery. The vehicle cannot run if the hybrid battery is discharged.

### ■ Normal characteristics after turning off the hybrid system

Approximately five hours after the hybrid system is turned off, you may hear sound coming from under the vehicle for several minutes. This is because the fuel evaporation leakage check is performed. It does not indicate a malfunction.

 **CAUTION**
**■ When starting the vehicle**

Always keep your foot on the brake pedal while stopped with the hybrid system operating. This prevents the vehicle from creeping.

**■ When driving the vehicle**

- Do not drive if you are unfamiliar with the location of the brake and accelerator pedals to avoid depressing the wrong pedal.
  - Accidentally depressing the accelerator pedal instead of the brake pedal will result in sudden acceleration that may lead to an accident that could result in death or serious injury.
  - When backing up, you may twist your body around, leading to a difficulty in operating the pedals. Make sure to operate the pedals properly.
  - Make sure to keep a correct driving posture even when moving the vehicle only slightly, allowing you to depress the brake and accelerator pedals properly.
  - Depress the brake pedal using your right foot. Depressing the brake pedal using your left foot may delay response in an emergency, resulting in an accident.
- The driver should pay attention to pedestrians when the vehicle is powered only by the electric motor (traction motor). Because there is no engine noise, the pedestrians may misjudge the vehicle's movement.
- Do not drive the vehicle over or stop the vehicle near flammable materials.
- Do not let the vehicle roll backward while the shift lever is in a driving position, or roll forward while the shift lever is in "R".  
Doing so may result in an accident or damage to the vehicle.
- If the smell of exhaust is noticed inside the vehicle, open the windows and check that the trunk is closed. Large amounts of exhaust in the vehicle can cause driver drowsiness and an accident, resulting in death a serious health hazard. Have the vehicle inspected by your Lexus dealer immediately.
- Do not under any circumstances shift the shift lever to "P" or "R" while the vehicle is moving.  
Doing so can cause significant damage to the transmission system and may result in a loss of vehicle control.
- Do not shift the shift lever to "N" while the vehicle is moving.  
Doing so may cause insufficient engine braking and lead to an accident.



### CAUTION


- Do not turn the hybrid system off while driving.  
The power steering system will not operate properly if the hybrid system is off.
- 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. 170)
- 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.
- Do not adjust the position of the steering wheel, the seat, or the inside or outside rear view mirrors while driving.  
Doing so may result in a loss of vehicle control that can cause accidents that may result in death or serious injury.
- Always check that all passengers' arms, heads or other parts of their body are not outside the vehicle, as this may result in death or serious injury.

#### ■ When driving on slippery road surfaces

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

#### ■ When shifting the shift lever

Be careful not to shift the shift lever with the accelerator pedal depressed. This may lead to unexpected rapid acceleration of the vehicle that may cause an accident and result in death or serious injury.

 **CAUTION**
**■ When the vehicle is stopped**

- Do not race the hybrid system.  
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 hybrid system on 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 hybrid system is operating to prevent an accident caused by the vehicle moving.

**■ When the vehicle is parked**

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

### CAUTION

#### ■ Exhaust gases

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

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

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

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

#### ■ When braking the vehicle

- If the electronically controlled brake system does not operate, do not follow other vehicles closely and avoid downhills or sharp turns that require braking. In this case, even though the brakes still operate, the brake pedal should be depressed more firmly than usual. Braking distance also becomes longer.
- The brake system consists of 3 individual hydraulic systems: if one of the systems fails, the others will still operate. In this case, the brake pedal should be depressed more firmly than usual and braking distance becomes longer. If this happens, do not continue to drive the vehicle. If the brake system warning light (red indicator) comes on together with buzzer sound while driving, immediately stop the vehicle in a safe place and contact your Lexus dealer.

#### ■ If the vehicle becomes stuck or bogged

Do not spin the wheels recklessly when any of the tires is up in the air, or stuck in sand or mud, etc. This may damage the drive system components or propel the vehicle forward (or in another direction) and cause an accident.

 NOTICE**■ When driving the vehicle**

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

**■ When parking the vehicle**

Always put the shift lever in "P". Failure to do so may cause the vehicle 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 motor.
- When driving over bumps in the road, drive as slowly as possible to avoid damaging the wheels, underside of the vehicle, etc.

**■ If you get a flat tire while driving**

A flat or damaged tire may cause the following situations. Hold the steering wheel firmly and gradually depress 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. 610)

### NOTICE

#### ■ When encountering flooded roads

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

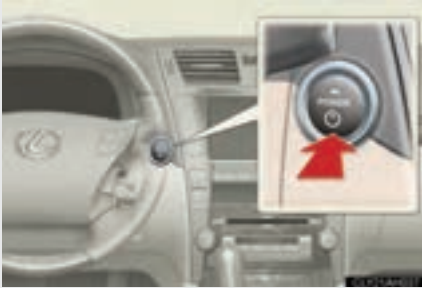
- Engine stalling
- Short in electrical components
- Engine damage caused by water immersion

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

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

# Starting the hybrid system

Modes can be switched by pressing the “POWER” switch when carrying the electronic key on your person. (The hybrid system can be started in any mode by operating the switch at the same time as depressing the brake pedal.)



### ■ Starting the hybrid system

**STEP 1** Check that the parking brake is set.

**STEP 2** Check that the shift lever is set in “P”.

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

The “POWER” switch indicator turns green.

**STEP 4**

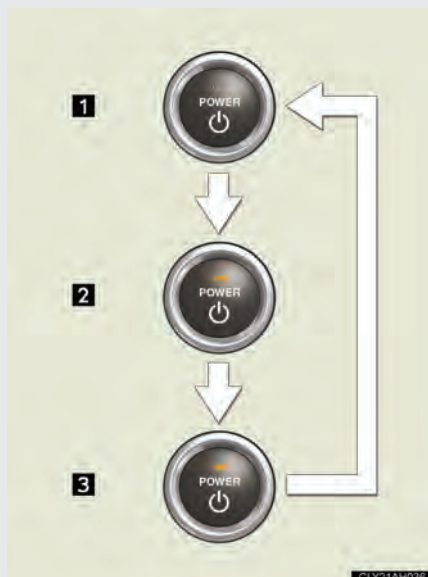


Press the “POWER” switch.

After a while, the “READY” indicator comes on with a beep sound.

The vehicle can move when the “READY” indicator is on even if the engine is stopped.

### ■ Changing “POWER” switch modes



#### 1 “OFF” mode\*

Emergency flashers can be used.

#### 2 “ACC” mode

Some electrical components such as the audio system can be used.

#### 3 “ON” mode

All electrical components can be used.

\*: If the shift lever is in a position other than “P” when turning off the hybrid system, the “POWER” switch will be turned to “ACC” mode, not to “OFF” mode.

### ■ If the hybrid system does not start

The immobilizer system may not have been deactivated. (→P. 113)

### ■ When the steering lock cannot be released



The green indicator light on the “POWER” switch will flash and a message will be shown on the multi-information display. Press the “POWER” switch again while turning the steering wheel left and right.

### ■ When the “POWER” switch indicator flashes in amber

The system may be malfunctioning. Have the vehicle inspected by your Lexus dealer immediately.

**■ If the “READY” indicator does not come on**

If the “READY” indicator does not come on when you press the “POWER” switch with the shift lever in “P” and the brake pedal depressed, contact your Lexus dealer immediately.

**■ Auto power off function**

If the vehicle is left in “ACC” mode for more than an hour with the shift lever in “P”, the “POWER” switch will automatically turn off.

**■ When the ambient temperature is low, such as during winter driving conditions**

It may take time until the “READY” indicator comes on.

**■ Sounds and vibrations specific to a hybrid vehicle**

→P. 32

**■ When the hybrid system is malfunctioning**

→P. 600

**■ Electronic key battery depletion**

→P. 53

**■ When the electronic key battery is discharged**

→P. 552

**■ Conditions affecting operation**

→P. 51

**■ Note for the entry function**

→P. 54



### CAUTION

#### ■ When starting the hybrid system

Always start the hybrid system while sitting in the driver's seat. Do not depress the accelerator pedal while starting the hybrid system under any circumstances. Doing so may cause an accident resulting in death or serious injury.

#### ■ Caution when driving

Do not touch the "POWER" switch while driving. Pressing and holding the "POWER" switch will stop the hybrid system, which may lead to an unexpected accident.

### NOTICE

#### ■ To prevent the 12-volt battery from being discharged

Do not leave the "POWER" switch in "ACC" or "ON" mode for long periods of time without the hybrid system on.

#### ■ When starting the hybrid system

- Do not race a cold hybrid system.
- If the hybrid system becomes difficult to start, have the hybrid system checked immediately by your Lexus dealer.

## 2-1. Driving procedures

### EV drive mode

In EV drive mode the electric motor (traction motor), powered by the hybrid battery (traction battery), is used to drive the vehicle.

This mode allows you to drive in residential areas early in the morning or late at night, or indoor parking lot etc. without concern for noises and gas emissions.



#### On/off

When EV drive mode is turned on, the EV drive mode indicator will come on. Pressing the switch when in EV drive mode will return to normal driving (using the gasoline engine and electric motor [traction motor]).

#### ■ Situations in which EV drive mode cannot be turned on

It may not be possible to turn EV drive mode on in the following situations. If it cannot be turned on, a buzzer will sound and a message will be shown on the multi-information display.

- The temperature of the hybrid system is high.  
The vehicle has been left in the sun, driven on a hill, driven at high speeds, etc.
- The temperature of the hybrid system is low.  
The vehicle has been left in temperatures lower than about 32°F (0°C) for a long period of time etc.
- The gasoline engine is warming up.
- The hybrid battery (traction battery) is low.  
The remaining battery level indicated in the "Energy Monitor" display is level 3 or lower. (→P. 34)
- Vehicle speed is about 25 mph (40 km/h) or more.  
EV drive mode may be automatically canceled when vehicle speed becomes about 18 mph (30 km/h) if engine coolant temperature is low.

- The accelerator pedal is depressed firmly or the vehicle is on a hill etc.
- The windshield defogger is in use.

### ■ Automatic cancelation of EV drive mode

When driving in EV drive mode, the gasoline engine may automatically restart in the following situations. When EV drive mode is canceled, a buzzer will sound and the EV drive mode indicator will flash and go off.

- The hybrid battery (traction battery) becomes low.  
The remaining battery level indicated in the "Energy Monitor" display is level 2 or lower. (→P. 34)
- Vehicle speed becomes more than about 25 mph (40 km/h).
- The accelerator pedal is depressed firmly or the vehicle is on a hill etc.

When it is possible to inform the driver of automatic cancelation in advance, a prior notice screen will appear on the multi-information display.

### ■ Possible driving distance when driving in EV drive mode

Possible driving distance when driving in EV drive mode is up to about 1/2 mile (1 km) if driven at a speed of about 25 mph (40 km/h) or less. (Possible driving distance depends on the hybrid battery [traction battery] level and driving conditions.)

### ■ Fuel economy

LS600hL is designed to achieve the best possible fuel economy during normal driving (using the gasoline engine and electric motor [traction motor]). Driving in EV drive mode more than necessary may lower fuel economy.

## CAUTION

### ■ Caution while driving

When driving in EV drive mode, pay special attention to the area around the vehicle. Because there is no engine noise, pedestrians, people riding bicycles or other people and vehicles in the area may not be aware of the vehicle starting off or approaching them, so take extra care while driving.

## 2-1. Driving procedures

# Transmission

Select a shift position appropriate for the driving conditions.

### ■ Shifting the shift lever



← While the “POWER” switch is in “ON” mode, depress the brake pedal and move the shift lever.

■ Shift position uses

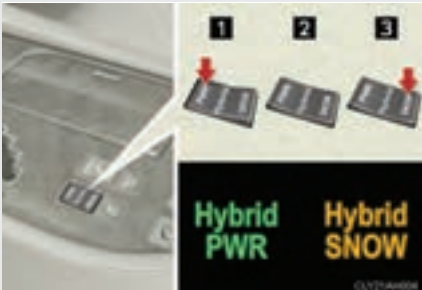
Shift position	Function
P	Parking the vehicle or starting the hybrid system
R	Reversing
N	Neutral
D	Normal driving* <sup>1</sup>
S	“S” mode driving* <sup>2</sup> (→P.171)

\*<sup>1</sup>: To improve fuel consumption and reduce noises, set the shift lever in the “D” position for normal driving.

\*<sup>2</sup>: Selecting shift ranges using “S” mode, you can control engine braking forces.

■ Selecting a driving mode

The following patterns can be selected to suit current driving and operating conditions.



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

**2** Normal mode

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

Press “SNOW” to return to normal mode.

## Changing shift ranges in “S” mode

Shift the shift lever to the “S” position and operate the shift lever.



- 1 Upshifting
- 2 Downshifting

The initial shift range in “S” mode is set automatically to “4”, “5”, “6” or “7” according to vehicle speed.

### Shift ranges and their functions

- You can choose from 8 levels of engine braking force.
- A lower shift range will provide greater engine braking force than a higher shift range, and the engine revolutions will also increase.

### Downshifting restrictions in “S” mode

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

Downshifting	Maximum speed mph (km/h)
7→6	120 (193)
6→5	96 (154)
5→4	76 (122)
4→3	55 (89)
3→2	47 (76)
2→1	35 (57)

### ■ When in heavy traffic

If the shift lever is in "N", the hybrid battery (traction battery) will not be charged. To help prevent the battery from discharging, avoid putting the shift lever in "N" for an extended period of time.

### ■ "S" mode

- When the shift range is "6" or lower, holding the shift lever toward "+" sets the shift range to "8".
- When the shift range is "6" or higher, moving the shift lever toward "-" may change down by 2 shift ranges or more depending on driving conditions.
- To prevent the engine from over-revving, upshifting may automatically occur.

### ■ When driving with the cruise control system

Engine braking will not occur in "S" mode, even when downshifting to "7", "6", "5" or "4". (→P. 196, 199)

### ■ Snow mode automatic deactivation

Snow mode is automatically deactivated if the "POWER" switch is turned to "OFF" mode after driving in snow mode.

### ■ If the shift lever cannot be shifted from "P"

→P. 620

# Turn signal lever



- 1 Right turn
- 2 Left turn
- 3 Move and hold the lever part-way to signal a lane change.  
The right hand signal will flash until you release the lever.
- 4 Move and hold the lever part-way to signal a lane change.  
The left hand signal will flash until you release the lever.

■ **Turn signals can be operated when**

The "POWER" switch is in "ON" mode.

■ **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

For the parking brake, an electrical parking brake system is adopted.

#### ■ Manual mode



#### 1 Sets the parking brake

If the parking brake switch is operated when the “POWER” switch is not in “ON” mode, the parking brake indicator light will come on and stay on for a while.

Press and hold the parking brake switch if an emergency occurs and it is necessary to operate the parking brake while driving.

#### 2 Releases the parking brake

Operate the parking brake switch while depressing the brake pedal. Make sure that the parking brake indicator light goes off.

#### ■ Automatic mode



#### On/off

The parking brake is set automatically according to shift lever operation.

Operate the shift lever with the brake pedal depressed.

- When the shift lever is moved out of “P”  
The parking brake will be released.
- When the shift lever is moved into “P”  
The parking brake will be set.

### ■ Parking brake operation

- When the “POWER” switch is not in “ON” mode, the parking brake cannot be released using the parking brake switch.
- When the “POWER” switch is not in “ON” mode, automatic mode (automatic brake setting and releasing) is not available.
- If the parking brake is operated repeatedly over a short period of time, the system may restrict operation to prevent overheating. If this happens, refrain from operating the parking brake. Normal operation will return after about 1 minute.

### ■ Parking brake indicator light

When the “POWER” switch is turned to “OFF” mode with the parking brake set, the parking brake indicator light will stay on for about 15 seconds. This does not indicate a malfunction.

### ■ Parking brake operation sound

When the parking brake operates, a motor sound (whirring sound) may be heard. This does not indicate a malfunction.

### ■ When there is a malfunction in the system

Warning lights and/or warning messages will turn on or flash. (→P. 599, 607)  
Depending on the condition, the parking brake indicator light may flash.

### NOTICE

#### ■ When parking the vehicle

Before you leave the vehicle, set the parking brake, shift the shift lever to “P” and make sure that the vehicle does not move.

#### ■ When the system malfunctions

Stop the vehicle in a safe place and check the warning messages.

#### ■ When the parking brake cannot be released due to a malfunction

Use the parking brake release tool to manually release the parking brake.  
(→P. 621)

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

## 2-1. Driving procedures

# Brake Hold

The brake hold system keeps the brake applied when the shift lever is in “D”, “S” or “N” with the system on and the brake pedal has been depressed to stop the vehicle. The system releases the brake when the accelerator pedal is depressed with the shift lever in “D” or “S” to allow smooth start off.



Turns the brake hold system on

The brake hold standby indicator comes on. While the system is holding the brake, the brake hold operated indicator light comes on.

### ■ Brake hold system operating conditions

The brake hold system cannot be turned on in the following conditions:

- The trunk or hood is not closed.
- The driver's door is not closed.
- The driver is not wearing the seat belt.

If any of the conditions above are detected when the brake hold system is enabled, the system will turn off and the brake hold operated indicator light will go off. In addition, if any of the conditions are detected while the system is holding the brake, a warning buzzer will sound and a message will be shown on the multi-information display. The parking brake will then be set automatically.

### ■ Brake hold function

- If the brake pedal is left released for a period of about 3 minutes after the system has started holding the brake, the parking brake will be set automatically. In this case, a warning buzzer sounds and a message is shown on the multi-information display.
- To turn the system off while the system is holding the brake, firmly depress the brake pedal and press the button again.
- The brake hold function may not hold the vehicle when the vehicle is on a steep incline. In this situation, it may be necessary for the driver to apply the brakes. The multi-information display will inform the driver of this situation.

### ■ When the parking brake is set automatically while the system is holding the brakes

The parking brake will not be released automatically. Release the parking brake by operating the parking brake switch, making sure that the parking brake indicator light goes off. (→P. 174)

### ■ When there is a malfunction in the system

Warning lights and/or warning messages will turn on or flash. (→P. 599, 607)

### CAUTION

#### ■ When stopped on a slippery road

The system cannot stop the vehicle when the gripping ability of the tires has been exceeded. Do not use the system when stopped on a slippery road.

### NOTICE

#### ■ When parking the vehicle

The brake hold system is not designed for use when parking the vehicle for a long period of time. Turning the "POWER" switch to "OFF" mode while the system is holding the brake may release the brake, which would cause the vehicle to move. When operating the "POWER" switch, depress the brake pedal, set the parking brake and shift the shift lever to "P".

## 2-2. Instrument cluster

# Gauges and meters



The units used on the speedometer and the tachometer gauge display may differ depending on the model/type.

The following gauges, meters and display illuminate when the “POWER” switch is in “ON” mode:

**1** Tachometer

Displays the engine speed in revolutions per minute

**2** Multi-information display

→P.184

**3** Speedometer

Displays the vehicle speed

**4** Fuel gauge

Displays the quantity of fuel remaining in the tank

**5** Trip meter and trip meter reset buttons

**6** Odometer

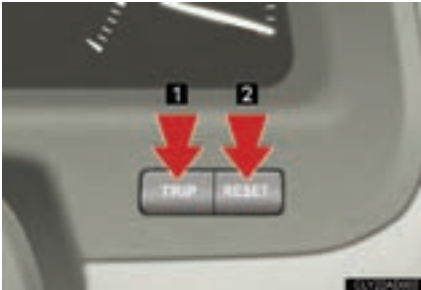
Displays the total distance the vehicle has been driven

**7** Trip meter

Displays the distance the vehicle has been driven since the meter was last reset. Trip meters “A” and “B” can be used to record and display different distances independently.

- 8 Instrument panel light control buttons
- 9 Hybrid system indicator  
Displays hybrid system output or regeneration level

### Trip meter and trip meter reset buttons



- 1 Changes the display
- 2 Resets the trip meter currently displayed to "0"

2

When driving

### Instrument panel light control buttons

The brightness of the instrument panel lights can be adjusted.



- 1 Darker
- 2 Brighter

### ■ Hybrid system indicator

- By keeping the indicator needle within the “ECO” zone, more fuel-efficient driving can be achieved.
- The “CHG” zone indicates regeneration\* status. Regenerated energy will be used to charge the battery.

\*: When used in this manual, “regeneration” refers to the conversion of energy created by the movement of the vehicle into electrical energy.

### ■ Engine speed

On hybrid vehicles, engine speed is precisely controlled in order to help improve fuel efficiency and reduce exhaust emissions etc.

There are times when the engine speed that is displayed may differ even when vehicle operation and driving conditions are the same.

### 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 engine speed.

# Indicators and warning lights

The indicator and warning lights on the instrument cluster and center panel inform the driver of the status of the vehicle's various systems.

### ► Instrument cluster



The units used on the speedometer and the tachometer gauge display may differ depending on the model/type.




















### ► Center panel





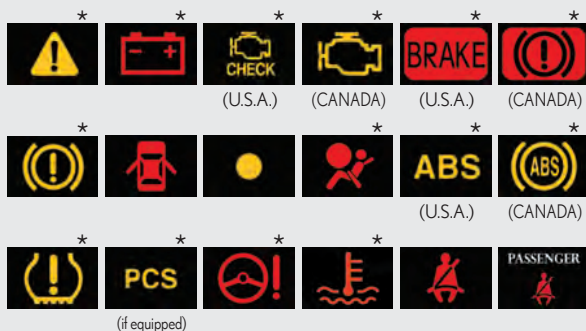
## ■ Indicators

The indicators inform the driver of the operating state of the vehicle's various systems.

	Turn signal indicator (→P.173)		Cruise control indicator (→P.196,199)
	Headlight high beam indicator (→P.188)		EV drive mode indicator (→P.167)
	Headlight indicator (→P.188)		* "AFS OFF" indicator (→P.189)
(U.S.A.)			
	Tail light indicator (→P.188)		* Slip indicator (→P.224)
(CANADA)			
	Front fog light indicator (→P.191)		* Brake hold standby indicator (→P.176)
	"Hybrid PWR" indicator (→P.170)		* Brake hold operated indicator (→P.176)
	"Hybrid SNOW" indicator (→P.170)		Parking brake indicator (→P.174)
		(U.S.A.)	
	"SPORT" mode indicator (→P.218)		Parking brake indicator (→P.174)
		(CANADA)	
	"COMFORT" mode indicator (→P.218)		* SRS airbag on-off indicator (→P.134)
	"HEIGHT HIGH" indicator (→P.218)		

## ■ Warning lights

Warning lights inform the driver of malfunctions in any of the vehicle's systems. (→P. 599)



\*: These lights turn on when the “POWER” switch is turned to “ON” mode to indicate that a system check is being performed. They will turn off after the hybrid system is on, or after a few seconds. There may be a malfunction in a system if a light does not come on, or if the lights do not turn off. Have the vehicle inspected by your Lexus dealer.

## ⚠ CAUTION

### ■ If a safety system warning light does not come on

Should a safety system light such as ABS and the SRS airbag warning light not come on when you start the hybrid system, 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.

## Multi-information display

The multi-information display presents the driver with a variety of driving-related data, including the current outside air temperature.



- Trip information (→P.185)

Displays cruising range, fuel consumption and other cruising related information

- Shift position and shift range (→P.169)

- “READY” indicator (→P.163)

- Intuitive parking assist display\* (→P.209)

- Dynamic radar cruise control display\* (if equipped) (→P.199)

- Warning messages (→P.607)

Automatically displayed when a malfunction occurs in one of the vehicle's systems

\*: Automatically displayed when the system is used

## Trip information



### 1 "DISP" switch

Items displayed can be switched by pressing the "DISP" switch.

### 2 "RESET" switch

#### ■ Outside temperature

Displays the outside air temperature

The temperature range that can be displayed is from -40°F (-40°C) to 122°F (50°C).

#### ■ Energy monitor

Displays the status of the hybrid system (→P. 34)

#### ■ Power monitor

Displays the instantaneous output from the hybrid system in approximate kilowatts

#### ■ Engine coolant temperature

Displays the engine coolant temperature

#### ■ Cruising range

Displays the estimated maximum distance that can be driven with the quantity of fuel remaining

This distance is computed based on your average fuel consumption. As a result, the actual distance that can be driven may differ from that displayed.

#### ■ Current fuel consumption

Displays the current rate of fuel consumption

### ■ **Average fuel consumption after refueling**

Displays the average fuel consumption since the vehicle was last refueled

### ■ **Distance after refueling**

Displays the distance the vehicle has been driven since the vehicle was last refueled

### ■ **Elapsed time**

Displays the elapsed time since it was last reset

The function can be reset by pressing the “RESET” switch when the elapsed time is displayed.

### ■ **Average vehicle speed**

Displays the average vehicle speed since the hybrid system was started or the function was reset

The function can be reset by pressing the “RESET” switch when the average vehicle speed is displayed.

### ■ **Tire inflation pressure**

Displays inflation pressure of each tire. There is no correlation between the order of the displayed values and the tire positions.

It may take a few minutes to display the tire inflation pressure after the “POWER” switch is turned to “ON” mode. It may also take a few minutes to display the tire inflation pressure after inflation pressure has been adjusted.

---

**■ To turn off the background images on the trip information screen**

When information is displayed together with a background image, press the “DISP” switch for 1 second or more.

Pressing the switch again for longer than 1 second turns on the background images.

**■ Tire inflation pressure**

Tire inflation pressure changes with temperature. The displayed values may also be different from the values measured using other gauges.

**■ Liquid crystal display**

Small spots or light spots may appear on the display. This phenomenon is characteristic of liquid crystal displays, and there is no problem continuing to use the display.

 NOTICE**■ The multi-information display at low temperatures**

Allow the interior of the vehicle to warm up before using the liquid crystal information display. At extremely low temperatures, the information display monitor may respond slowly, and display changes may be delayed.

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

### Headlight switch

The headlights can be operated manually or automatically.

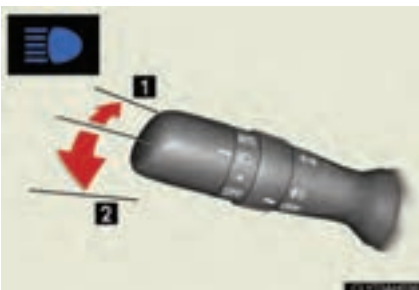


● The side marker, parking, tail, license plate and instrument panel lights turn on.

☰☞ The headlights and all lights listed above turn on.

**AUTO** The headlights, other exterior lights and instrument panel lights turn on and off automatically. (When the "POWER" switch is in "ON" mode)

### Turning on the high beam headlights



1 With the headlights on, push the lever away from you to turn on the high beams.

Pull the lever toward you 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.

## AFS

AFS (Adaptive Front-lighting System) improves visibility at intersections and on curves by automatically adjusting the direction of the light axis of the headlights according to vehicle speed and the degree of the tire angle that are controlled by steering input.

Operates at speeds of 6 mph (10 km/h) or higher

### ■ Deactivating AFS



On/off

The indicator turns on when the AFS is deactivated.

2

When driving

### ■ Daytime running light system

To make your vehicle more visible to other drivers, the headlights turn on automatically (at a reduced intensity) whenever the hybrid system is started and the parking brake is released. 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 to malfunction.



### ■ Automatic light off system

- When the headlights come on: The headlights turn off 30 seconds after a door is opened and closed if the "POWER" switch has been turned to "ACC" or "OFF" mode. (The lights turn off immediately if  on the key is pressed after all doors are locked.)
- When only the tail lights come on: The tail lights turn off automatically if the "POWER" switch is turned to "ACC" or "OFF" mode and driver's door is opened.

To turn the lights on again, turn the "POWER" switch to "ON" mode, or turn the light switch to "OFF" once and then back to the  or  position.

### ■ Automatic headlight leveling system

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

### ■ If the "AFS OFF" indicator flashes

It may indicate a malfunction in the system. Contact your Lexus dealer.

### ■ Customization

Settings (e.g. light sensor sensitivity) can be changed. (→P. 661)

#### NOTICE

### ■ To prevent the 12-volt battery from being discharged

Do not leave the lights on longer than necessary when the hybrid system is off.

## 2-3. Operating the lights 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 Turns the front fog lights off
- 2 Turns the front fog lights on

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

### Windshield wipers and washer

With “AUTO” selected, the wipers will operate automatically when the sensor detects falling rain. The system automatically adjusts wiper timing in accordance with rain volume and vehicle speed.



- 1 Rain-sensing wiper operation
- 2 Low speed wiper operation
- 3 High speed wiper operation
- 4 Temporary operation



- 5 Wash/wipe operation

Wipers operate automatically. (After operating several times, the wipers operate one more time after a short delay to prevent dripping.)

### ■ The windshield wiper and washer can be operated when

The "POWER" switch is in "ON" mode.

### ■ Effects of vehicle speed on wiper operation

With the settings other than "AUTO" also, the time until drop prevention wiper sweep occurs is changed depending on vehicle speed.

With "LO" selected, wiper operation will be switched from low speed to intermittent wiper operation only when the vehicle is stationary.

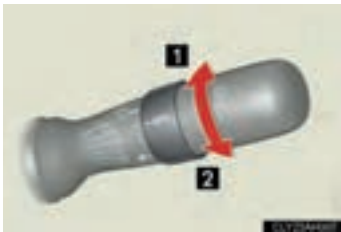
(However, the mode cannot be switched when the adjustment dial for the sensor sensitivity is set to the lowest position.)

### ■ "AUTO" mode



The raindrop sensor judges the amount of raindrops.

An optical sensor is adopted. It may not operate properly when sunlight from the rising or setting of the sun intermittently strikes the windshield, or if bugs etc. are present on the windshield.



The sensitivity of sensor can be adjusted by turning the knob.

**1** Decreases the sensitivity (-)

**2** Increases the sensitivity (+)

### ■ If no windshield washer fluid sprays

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

### CAUTION

#### ■ Caution regarding the use of windshield wipers in "AUTO" mode

The windshield wipers may operate unexpectedly if the sensor is touched or the windshield is subject to vibration in "AUTO" mode. Take care that your fingers or anything else do not become caught in the windshield wipers.

### NOTICE

#### ■ When the windshield is dry

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

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

Damage to the washer fluid pump may be caused if the lever is pulled toward you and held continually.

#### ■ When using an automatic car wash

Set the wiper switch to "OFF".

If the wiper switch is in "AUTO", the wipers may operate and the wiper blades may be damaged.

## Headlight cleaner switch

Washer fluid can be sprayed on the headlights.



Press the switch to clean the headlights.

■ **The headlight cleaner can be operated when**

The "POWER" switch is in "ON" mode and the headlight switch is turned on.

 **NOTICE**

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

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

## 2-4. Using other driving systems

### Cruise control (if equipped)

Use the cruise control to maintain a set speed without using the accelerator.



#### ■ Setting the vehicle speed



Press the "ON-OFF" button to activate the cruise control.

Press the button once more to deactivate the cruise control.



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

### ■ Adjusting the speed setting



- 1 Increases speed
- 2 Decreases speed

Hold the lever until the desired speed setting is obtained.

Fine adjustment of the set speed can be made by lightly pushing the lever up or down and releasing it.

### ■ Canceling and resuming regular acceleration



- 1 Cancel

Push the lever toward you to cancel cruise control.

The speed setting is also canceled when the brakes are applied.

- 2 Resume

To resume cruise control and return to the set speed, push the lever up.

Resuming is available when vehicle speed is approximately 25 mph (40 km/h) or more.

### ■ Cruise control can be set when

- The shift lever is in "D". (Recommended)  
The cruise control can also be set when the shift lever is in the "S" position and range "4", "5", "6", "7" or "8" has been selected.
- Vehicle speed is between approximately 25 mph (40 km/h) and 125 mph (200 km/h).



### ■ Accelerating

The vehicle can accelerate normally.

### ■ Automatic cruise control cancelation

The cruise control will stop maintaining the vehicle speed in any of the following situations:

- Actual vehicle speed falls more than 10 mph (16 km/h) below the preset vehicle speed.  
At this time, the memorized set speed is not retained.
- Actual vehicle speed is below approximately 25 mph (40km/h).
- VSC is activated.

### ■ If the cruise control indicator light flashes

Press the “ON-OFF” button once to deactivate the system, and then press the button again to reactivate the system.

If the cruise control speed cannot be set or if the cruise control cancels immediately after being activated, there may be a malfunction in the cruise control system. Have the vehicle inspected by your Lexus dealer.

### CAUTION

#### ■ To avoid operating the cruise control by mistake

Keep the “ON-OFF” button off when not in use.

#### ■ Situations 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 could cause serious or fatal accident.

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

Vehicle speed may exceed the set speed when driving down a steep hill.

## 2-4. Using other driving systems

### Dynamic radar cruise control (if equipped)

Dynamic radar cruise control supplements conventional cruise control with a vehicle-to-vehicle distance control. In the vehicle-to-vehicle distance control mode, the vehicle automatically accelerates or decelerates in order to maintain a set following distance from vehicles ahead.



■ Set the vehicle speed



Press the "ON-OFF" button to activate the cruise control.

Press the button once more to deactivate the cruise control.

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

### Selecting conventional constant speed control mode



**1** Press the “ON-OFF” button to activate the cruise control.

Press the button once more to deactivate the cruise control.

**2** Switch to constant speed control mode.

(Push the lever away from you and hold for approximately one second.)

Vehicle-to-vehicle distance control mode is always reset when the “POWER” switch is turned to “ON” mode.

### ■ Adjusting the speed setting



**1** Increases speed

**2** Decreases speed

Hold the lever until the desired speed setting is displayed.

Fine adjustment of the set speed can be made by lightly pushing the lever up or down and releasing it.

### ■ Canceling and resuming the speed setting



#### 1 Cancel

Push the lever toward you to cancel cruise control.

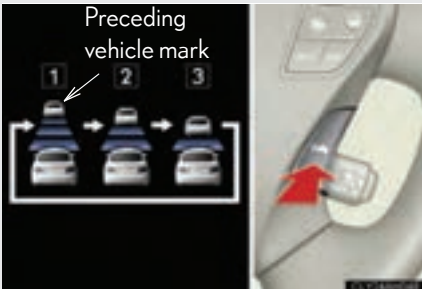
The setting is also canceled when the brakes are applied.

#### 2 Resume

To resume cruise control and return to the set speed, push the lever up.

Resuming is available when vehicle speed is approximately 28 mph (45 km/h) or more.

### ■ Changing the vehicle-to-vehicle distance



Each press of the switch changes the vehicle-to-vehicle distance.

#### 1 Long

#### 2 Medium

#### 3 Short

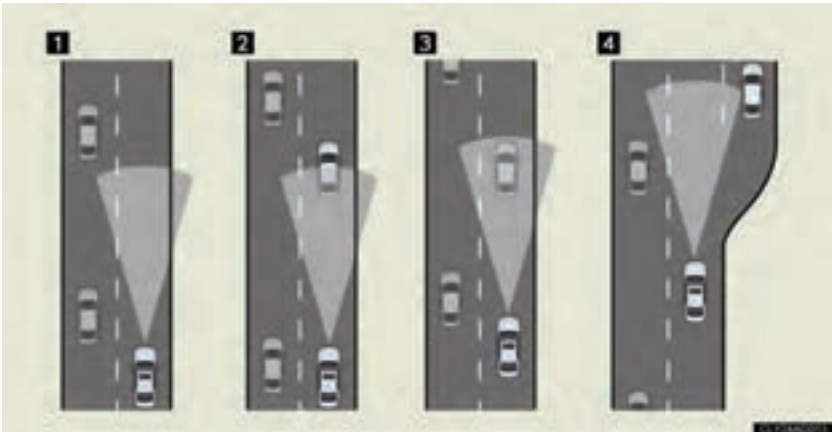
The vehicle-to-vehicle distance is set automatically to the long mode when the "POWER" switch is turned to "ON" mode.

A mark will be displayed to indicate the presence of the vehicle if a vehicle is running ahead of you.

### Driving in vehicle-to-vehicle distance control mode

This mode employs a radar sensor to detect the presence of vehicles up to approximately 400 ft. (120 m) ahead and to judge the distance between your vehicle and those the vehicle ahead of you.

Note that vehicle-to-vehicle distance will close in when traveling on long downhill slopes.



**1** Example of constant speed cruising

When there are no vehicles ahead

The vehicle travels at the speed set by the driver. The desired vehicle-to-vehicle distance can also be set by operating the vehicle-to-vehicle distance switch.

**2** Example of deceleration cruising

When the vehicle ahead is driving slower than the set speed

When a vehicle is detected running ahead of you, in the same lane, the system automatically decelerates your vehicle. When a greater reduction in vehicle speed is necessary, the system applies the brakes. A warning tone warns you if the system cannot decelerate sufficiently to prevent your vehicle from closing in on the vehicle ahead.

**3** Example of follow-up cruising

When following a vehicle driving slower than the set speed

The system continues follow-up cruising while adjusting for changes in the speed of the vehicle ahead in order to maintain the vehicle-to-vehicle distance set by the driver.

**4** Example of acceleration

When there are no longer vehicles driving slower than the set speed in the lane ahead

When the vehicle ahead of you executes a lane change, the system slowly accelerates until the set vehicle speed is reached. The system then returns to fixed speed cruising.

**Approach warning**

When your vehicle is too close to a vehicle ahead, and sufficient automatic deceleration via the cruise control is not possible, the display will flash and the buzzer will sound to alert the driver. An example of this would be if another driver cuts in front of you while you are following a vehicle. Apply the brakes to ensure an appropriate vehicle-to-vehicle distance.

**Warning lights and messages for dynamic radar cruise control**

Warning lights and messages are used to indicate a system malfunction or to inform the driver of the need for caution while driving. (→P. 607)

**Switching modes**

The mode cannot be switched to constant speed control mode if vehicle-to-vehicle distance control mode has been used. The mode also cannot be switched from constant speed control to vehicle-to-vehicle distance control mode. Turn the system off by pressing the "ON-OFF" button, and turn it on again.

### ■ Dynamic radar cruise control can be set when

- The shift lever is in "D". (Recommended)  
Dynamic radar cruise control can also be set when the shift lever is in the "S" position and range "4", "5", "6", "7" or "8" has been selected.
- Vehicle speed is between approximately 27 mph (43 km/h) and 87 mph (139 km/h).

### ■ Accelerating

The vehicle can accelerate normally.

### ■ Automatic cancelation of vehicle-to-vehicle distance control

Vehicle-to-vehicle distance control driving is automatically canceled in the following situations:

- Actual vehicle speed falls below 25 mph (40 km/h).
- VSC is activated.
- The sensor cannot operate correctly because it is covered in some way.
- The windshield wipers are operating at high speed.
- The driving mode select switch is set to snow mode.

If vehicle-to-vehicle distance control driving is automatically canceled for any other reason, there may be a malfunction in the system. Contact your Lexus dealer.

### ■ Automatic cancelation of constant speed control

The cruise control will stop maintaining the vehicle speed in 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.
- Actual vehicle speed falls below 25 mph (40 km/h).
- VSC is activated.

### ■ Vehicle-to-vehicle distance settings

Select a distance from the table below. Note that the distances shown correspond to a vehicle speed of 50 mph (80 km/h). Vehicle-to-vehicle distance increases/decreases in accordance with vehicle speed.

Distance options	Vehicle-to-vehicle distance
Long	Approximately 164 ft. (50 m)
Medium	Approximately 132 ft. (40 m)
Short	Approximately 100 ft. (30 m)

### ■ Radar sensor and grille

Always keep the sensor and grille clean to ensure that the vehicle-to-vehicle distance control operates properly. (Some obstructions, such as snow, ice or plastic objects, cannot be detected by the obstruction sensor.)

Dynamic radar cruise control is canceled if an obstruction is detected.



Radar sensor

### ■ Approach warning

In the following instances, there is a possibility that the warnings will not occur:

- When the speed of the vehicle ahead matches or exceeds your vehicle's speed
- When the vehicle ahead is traveling at an extremely slow speed
- Immediately after the cruise control speed has been set
- At the instant the accelerator is applied



### ■ Certification

- ▶ For vehicles sold in U.S.A.

#### FCC WARNING

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

#### FCC RF exposure information

This device complies with the FCC RF exposure requirements.

- ▶ 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 received, including interference that may cause undesired operation of the device.

### CAUTION

#### ■ Before using dynamic radar cruise control

Do not overly rely on vehicle-to-vehicle distance control.

Be aware of the set vehicle speed. If automatic deceleration/acceleration is not appropriate, adjust the vehicle speed, as well as the distance between your vehicle and vehicles ahead by applying the brakes etc.

#### ■ To avoid operating dynamic radar cruise control by mistake

Keep the "ON-OFF" button off when not in use.

 **CAUTION****■ Situations unsuitable for dynamic radar cruise control**

Do not use dynamic radar cruise control in any of the following situations. Doing so may result in inappropriate speed control and could cause a serious or fatal accident.

- In heavy traffic
- On roads with sharp bends
- On winding roads
- On slippery roads, such as those covered with rain, ice or snow
- On steep downhills, or where there are sudden changes between sharp up and down gradients  
Vehicle speed may exceed the set speed when driving down a steep hill.
- At entrances to expressways
- When weather conditions are bad enough that they may prevent the sensors from functioning correctly (fog, snow, sandstorm, heavy rain, etc.)
- When the approach warning buzzer can be heard often

**■ When the radar sensor may not be correctly detecting the vehicle ahead**

Apply the brakes as necessary when any of the following types of vehicles are in front of you.

As the sensor may not be able to correctly detect these types of vehicles, the approach warning (→P. 203) will not be activated, and an accident may result.

- Vehicles that cut in suddenly
- Vehicles traveling at low speeds
- Vehicles that are not moving
- Vehicles with small rear ends (trailers with no load on board etc.)
- Motorcycles traveling in the same lane

### CAUTION

#### ■ Conditions under which the vehicle-to-vehicle distance control may not function correctly

Apply the brakes as necessary in the following conditions as the radar sensor may not be able to correctly detect vehicles ahead, and an accident may result:

- When water or snow thrown up by the surrounding vehicles hinders the functioning of the radar sensor
- When your vehicle is pointing upwards (caused by a heavy load in the trunk etc.)
- When the road curves or when the lanes are narrow
- When steering wheel operation or your position in the lane is unstable
- When the vehicle ahead of you decelerates suddenly

#### ■ To ensure the radar sensor functions correctly

Do not do the following to the sensor or grille as doing so may cause the sensor not to function correctly and could result in an accident:

- Stick or attach anything to it
- Leave it dirty
- Disassemble or subject it to strong shocks
- Modify or paint it
- Replace it with a non-genuine part

#### ■ Handling the radar sensor

Observe the following to ensure the cruise control system can function effectively:

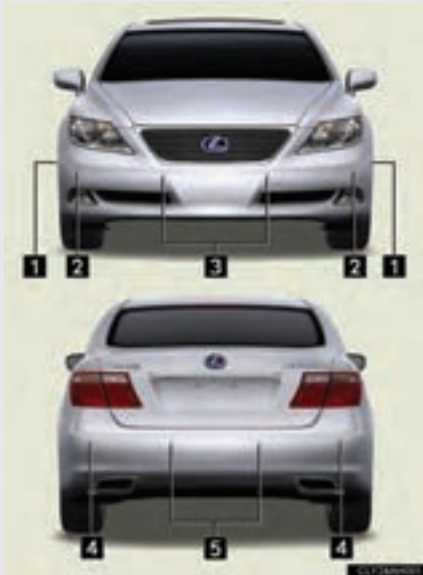
- Keep the sensor and front grille clean at all times.  
Clean the sensor and front grille with a soft cloth so you do not mark or damage them.
- Do not subject the sensor or surrounding area to a strong impact.  
If the sensor moves even slightly off position, the system may malfunction. If the sensor or surrounding area is subject to a strong impact, always have the area inspected and adjusted by a Lexus dealer.
- Do not disassemble the sensor.
- Do not attach accessories or stickers to the sensor, grille or surrounding area.
- Do not modify or paint the sensor and grille.

## 2-4. Using other driving systems

### Intuitive parking assist

The distance to obstacles measured by the sensors is communicated via the multi-information display and a buzzer when parallel parking or maneuvering into a garage. Always check the surrounding area when using this system.

#### ■ Types of sensors



- 1 Front side sensors
- 2 Front corner sensors
- 3 Front center sensors
- 4 Rear corner sensors
- 5 Rear center sensors

#### ■ Intuitive parking assist switch



#### On/off

When on, the indicator light comes on and the buzzer sounds to inform the driver that the system is operational.

Press the button to switch the on/off mode.

## Display

When the sensors detect an obstacle, the graphic is shown on the multi-information display and touch screen according to position and distance to the obstacle.

### ■ Multi-information display



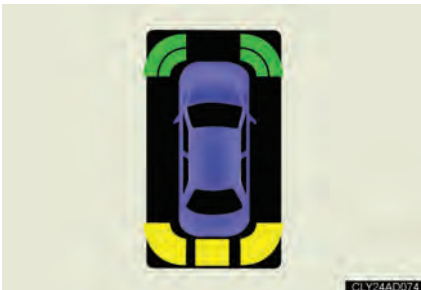
- 1 Front side sensors and front corner sensors operation
- 2 Front center sensors operation
- 3 Rear corner sensors operation
- 4 Rear center sensors operation

### ■ Touch screen



When the vehicle is moving forward

The graphic is automatically displayed when an obstacle is detected. The screen can be set so that the graphic is not displayed. (→P. 215)







When the vehicle is moving backward

A simplified image is displayed on the right upper corner of the touch screen when an obstacle is detected.

## The distance display and buzzer

When a sensor detects an obstacle, the direction of and the approximate distance to the obstacle are displayed and the buzzer sounds.




### ► Center sensors

Level	1	2	3	4
Display example of front center sensor				
Buzzer	Slow	Medium	Fast	Continuous

2

When driving

### ► Corner sensors and side sensors

Level	1	2	3	4
Display example of front right sensor	-			
Buzzer	-	Medium	Fast	Continuous

■ Detection level and approximate distance to an obstacle

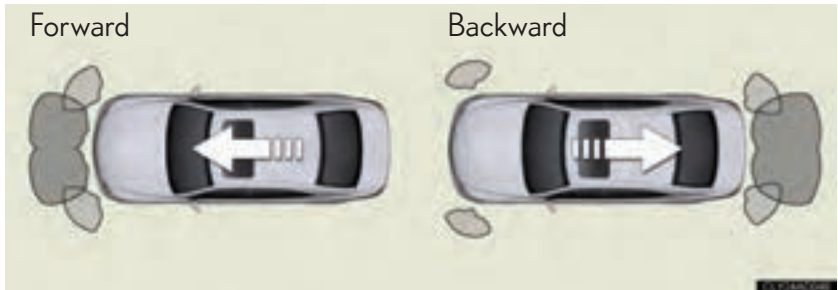
Level	1	2	3	4
Front side sensors	-	1.5 to 11 ft. (50 to 37.5 cm)	11 to 10 ft. (37.5 to 30 cm)	1.0 ft. (30 cm) or less
Front corner sensors	-	1.8 to 11 ft. (60 to 37.5 cm)	11 to 10 ft. (37.5 to 30 cm)	1.0 ft. (30 cm) or less
Front center sensors	3.0 to 1.5 ft. (100 to 50 cm)	1.5 to 11 ft. (50 to 37.5 cm)	11 to 10 ft. (37.5 to 30 cm)	1.0 ft. (30 cm) or less
Rear corner sensors	-	1.8 to 11 ft. (60 to 37.5 cm)	11 to 0.8 ft. (37.5 to 25 cm)	0.8 ft. (25 cm) or less
Rear center sensors	4.5 to 2.0 ft. (150 to 60 cm)	2.0 to 14 ft. (60 to 45 cm)	14 to 11 ft. (45 to 35 cm)	1.1 ft. (35 cm) or less

## Sensors that operate and detection range

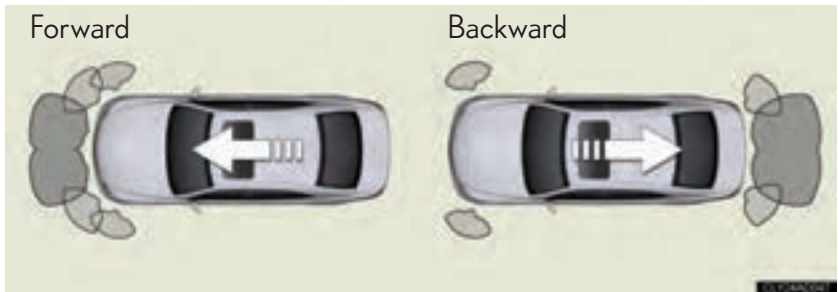
The following diagrams show the sensor detection range. Note that sensors may not be able to detect obstacles that are extremely close to the vehicle.

### Sensors that operate

- ▶ Vehicles with advanced parking guidance system

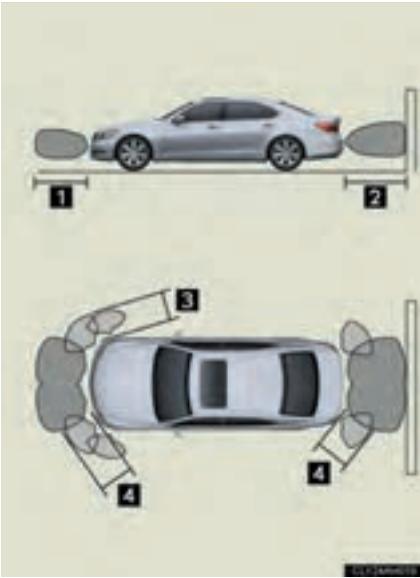


- ▶ Vehicles without advanced parking guidance system





■ Detection range of the sensors



- 1 Approx. 3.0 ft. (100 cm)
- 2 Approx. 4.5 ft. (150 cm)
- 3 Approx. 1.5 ft. (50 cm)
- 4 Approx. 2.0 ft. (60 cm)

The diagram shows the detection range of the sensors. Note that the sensors may not be able to detect obstacles that are extremely close to the vehicle.

The range of the sensors may change depending on the shape of the object etc.

## Customization of the intuitive parking assist

The buzzer volume, display and buzzer timing and display of the graphic on the screen can be customized.

Press  to display the information screen, and touch .



### Buzzer volume

**STEP 1** Touch .


**STEP 2** Touch a switch (from  to ) to adjust the buzzer volume, and touch .

### Display and buzzer timing

**STEP 1** Touch .

**STEP 2** Set the display and buzzer timing for the front and the rear center sensors. When  or  is touched, the triangle marks move between green (turns on at level 1) and orange (turns on at level 2) to select the timing.

### Display of the graphic on the screen when the vehicle is moving forward

Touch . When this switch is touched, display setting switches between on and off.

### ■ Sensor detection information

● Certain vehicle conditions and the surrounding environment may affect the ability of a sensor to correctly detect an obstacle. Particular instances where this may occur are listed below.

- There is dirt, snow or ice on a sensor.
- A sensor is frozen.
- A sensor is covered in any way.
- The vehicle is leaning considerably to one side.
- On an extremely bumpy road, on an incline, on gravel, or on grass
- The vicinity of the vehicle is noisy due to vehicle horns, motorcycle engines, air brakes of large vehicles, or other loud noises producing ultrasonic waves.
- There is another vehicle equipped with parking assist sensors in the vicinity.
- A sensor is coated with a sheet of spray or heavy rain.
- The vehicle is equipped with a fender pole or radio antenna.
- Towing eyelets are installed.
- A bumper or sensor receives a strong impact.
- The vehicle is approaching a tall or right-angled curb.
- In harsh sunlight or intense cold weather
- A non-genuine Lexus suspension (lowered suspension etc.) is installed.

In addition to the examples above, there are instances in which, because of their shapes, signs and other objects may be judged by a sensor to be closer than they are.

● The shape of the obstacle may prevent a sensor from detecting it. Pay particular attention to the following obstacles:

- Wires, fences, ropes, etc.
- Cotton, snow and other materials that absorb radio waves
- Sharply-angled objects
- Low obstacles
- Tall obstacles with upper sections projecting outwards in the direction of your vehicle

### ■ If the display flashes and a message is displayed

→P. 599, 607

### ■ Certification (Canada only)

This ISM device complies with Canadian ICES-001.

 **CAUTION****■ Caution when using the intuitive parking assist**

Observe the following precautions.

Failure to do so may result in the vehicle being unable to be driven safely and possibly cause an accident.

- Do not use the sensor at speeds in excess of 6 mph (10 km/h).
- Do not attach any accessories within the sensor range.

 **NOTICE****■ Notes when washing the vehicle**

Do not apply intensive bursts of water or steam to the sensor area.  
Doing so may result in the sensor malfunctioning.

## 2-4. Using other driving systems

# Electronically modulated air suspension

The vehicle adjusts the damping of the shock absorbers and maintains vehicle height automatically in response to driving conditions to help provide enhanced driving comfort and vehicle control.

### ■ Vehicle height adjustment

The vehicle's height is maintained at the selected level regardless of the number of occupants and luggage weight.



Turn the "HEIGHT HIGH" switch on.

The indicator light comes on.

Press the switch once more to cancel the HIGH mode.

### ■ Damping mode selection

You can select the damping mode of the shock absorbers.



#### 1 Sport

The indicator light comes on.

#### 2 Normal

#### 3 Comfort

The indicator light comes on.

### ■ Operating sound of the air suspension compressor

When the vehicle height is lowered, such as when entering or loading the vehicle, or HIGH mode is selected, the compressor may operate and a whirring sound may be heard. This does not indicate a malfunction.

 **CAUTION**

■ **Be sure to stop the hybrid system in the following situations in order to stop operation of the electronically modulated air suspension:**

- The vehicle is parked on a curb.
- Any of the wheels is stuck in a ditch.
- It is necessary to jack up the vehicle.
- It is necessary to tow the vehicle with part of it lifted.

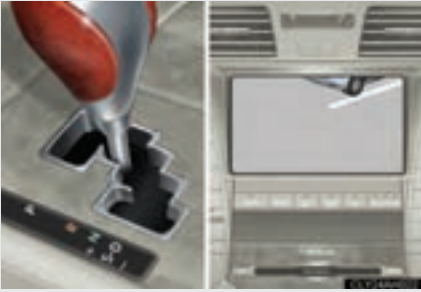
If the "POWER" switch remains in "ON" mode, the vehicle height may change, resulting in accidental damage.

## 2-4. Using other driving systems

### Rear view monitor system (if equipped)

The rear view monitor system assists the driver by displaying an image of the area behind the vehicle. The image is displayed in reverse on the screen. This reversed image is a similar image to the one on the inside rear view mirror.

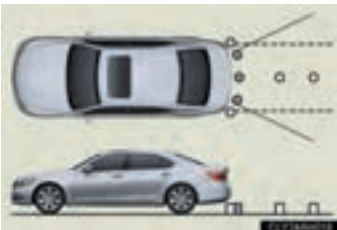
For the advanced parking guidance system, refer to the “Navigation System Owner’s Manual”.



The rear view image is displayed when the shift lever is in the “R” position.

If the shift lever is shifted out of “R”, the screen returns to the previous one.

#### ■ Displayed area



The area covered by the camera is limited. Objects that are close to either corner of the bumper or under the bumper cannot be seen on the screen.

The area displayed on the screen may vary according to vehicle orientation or road conditions.



### ■ Rear view monitor system camera



In the following cases, it may become difficult to see the images on the screen, even when the system is functioning correctly:

- The vehicle is in a dark area, such as at night.
- The temperature near the lens is extremely high or low.
- Water droplets are on the camera lens or humidity is high, such as when it rains.
- Foreign matter, such as snow or mud, adheres to the camera lens.
- The sun or headlights are shining directly into the camera lens.

### ■ Smear effect



If a bright light, such as sunlight reflected off the vehicle body, is picked up by the camera, a smear effect\* characteristic to the camera may occur.

\*: Smear effect — A phenomenon that occurs when a bright light is picked up by the camera; when transmitted by the camera, the light source appears to have a vertical streak above and below it.



### CAUTION

- **When using the rear view monitor system, observe the following precautions to avoid an accident that could result in death or serious injuries:**
  - Never depend solely on the monitor system when reversing.
  - Always check visually and with the mirrors to confirm your intended path is clear.
  - Depicted distances between objects and flat surfaces differ from actual distances.
  - Do not use the system if the trunk is open.
- **Conditions which may affect the rear view monitor system**
  - If the back of the vehicle has been hit, the camera's position and mounting angle may have changed. Have the vehicle inspected by your Lexus dealer.
  - Rapid temperature changes, such as when hot water is poured on the vehicle in cold weather, may cause the system to function abnormally.
  - If the camera lens is dirty, it cannot transmit a clear image. Rinse with water and wipe with a soft cloth. If extremely dirty, wash with a mild cleanser and rinse.
  - The displayed image may be darker and moving images may be slightly distorted when the system is cold.

### Driving assist systems

To help enhance driving safety and performance, the following systems operate automatically in response to various driving situations. Be aware, however, that these systems are supplementary and should not be relied upon too heavily when operating the vehicle.

#### ■ ABS (Anti-lock Brake System)

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

#### ■ BA (Brake Assist)

Generates an increased level of braking force after the brake pedal is depressed, 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)

Maintains drive power and prevents any of the drive wheels from spinning when starting the vehicle or accelerating on slippery roads

#### ■ Hill-start assist control

Prevents the vehicle from rolling backward when starting on an incline or slippery slope

#### ■ VGRS (Variable Gear Ratio Steering)

Adjusts the wheel turning angle in accordance with the vehicle speed and steering wheel movement

#### ■ EPS (Electric Power Steering)

Employs an electric motor to reduce the amount of effort needed to turn the steering wheel

#### ■ Active stabilizer suspension system (if equipped)

Reduces sway when cornering according to steering wheel movement and the selected suspension damping mode, in order to maintain a stable vehicle posture

### ■ VDIM (Vehicle Dynamics Integrated Management)

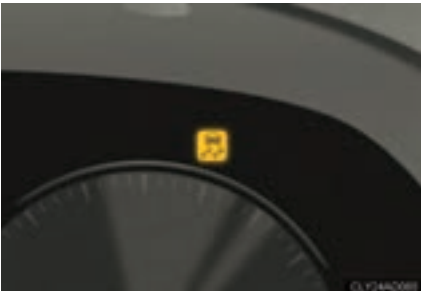
Provides integrated control of the ABS, BA, TRAC, VSC, hill-start assist control, EPS, and VGRS systems

Maintains vehicle stability when swerving on slippery road surfaces by controlling the brakes and hybrid system output, steering assist, and steering ratio

### ■ PCS (Pre-Collision System) (if equipped)

→P. 229, 232

### When the VSC/TRAC/hill-start assist control systems are operating



If the vehicle is in danger of slipping, rolling backward when starting on an incline, or if any of the drive wheels spin, the slip indicator light flashes to indicate that the VSC/TRAC/hill-start assist control systems have been engaged.

A buzzer (intermittent) sounds to indicate that VSC is operating.

The stop lights and high mounted stoplight turn on when the hill-start assist control system is operating.

The slip indicator light flashes as well when ABS is operating.

## Disabling TRAC and/or VSC

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



### ● Turning off TRAC

Quickly press and release the switch to turn off TRAC.

The slip indicator light should come on.

Press the switch again to turn the system back on.

### ● Turning off TRAC and VSC

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

The slip indicator light will come on and a message will be shown on the multi-information display.

Press the switch again to turn the system back on.

### ■ Automatic reactivation of TRAC and VSC

Turning the “POWER” switch to “OFF” mode after turning off the TRAC and VSC systems will automatically re-enable them.

### ■ Automatic TRAC reactivation

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

### ■ Automatic TRAC/VSC reactivation

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

### ■ Sounds and vibrations caused by the ABS, BA, VSC, TRAC, hill-start assist control and VGRS systems

- A sound may be heard from the engine compartment when the hybrid system is started or just after the vehicle begins to move. This sound does not indicate that a malfunction has occurred in any of these systems.

- Any of the following conditions may occur when the above systems are operating. None of these indicates that a malfunction has occurred.

- Vibrations may be felt through the vehicle body and steering.
- A motor sound may be heard after the vehicle comes to a stop.

### ■ Hill-start assist control is operational when

- The shift lever is in the “D” or “S” position.
- The brake pedal is not depressed.

### ■ EPS operation sound

When the steering wheel operates, a motor sound (whirring sound) may be heard. This does not indicate a malfunction.

### ■ VGRS is disabled in the following situations

The center position of the steering wheel may change when VGRS is disabled. However, the position will return to normal after VGRS is re-enabled.

- When the steering wheel has been operated for an extended period of time while the vehicle is stopped or is moving very slowly
- When the steering wheel has been held fully to the left or right
- When the 12-volt battery is low or the voltage temporarily drops
- After the hybrid system is started at lower than -22°F (-30°C)

### ■ Reduced effectiveness of EPS

The effectiveness of EPS is reduced to prevent the system from overheating when there is frequent steering input over an extended period of time. The steering wheel may feel heavy as a result. Should this occur, refrain from excessive steering input or stop the vehicle and turn the hybrid system off. The system should return to normal within 10 minutes.

### CAUTION

#### ■ The ABS does not operate effectively when

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

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

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

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

#### ■ 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 stability and power may be lost.

#### ■ If hill-start assist control does not operate effectively

The hill-start assist control may not operate effectively on steep inclines and roads covered in ice.

### CAUTION

#### ■ When the VSC is activated

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

#### ■ When TRAC and VSC are off

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

#### ■ Replacing tires

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

The ABS and VSC systems will not function correctly if different tires are fitted on the vehicle.

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

#### ■ Handling of tires and suspension

Using tires with any kind of problem or modifying the suspension will affect the driving assist systems, and may cause the system to malfunction.

### Pre-Collision System (if equipped)

Safety systems such as the brakes and seat belts are automatically engaged to lessen impact and injuries to occupants as well as vehicle damage when the radar sensor detects an unavoidable frontal collision.

#### ■ Pre-collision seat belts

The front seat belts are immediately retracted as the effect of the pretensioner is increased (→P. 93) to help prepare the driver and front passenger. In the event of sudden braking or skidding, the system will operate even if no obstacle has been detected.

However, the system will not operate in the event of skidding when the TRAC/VSC systems are disabled.

#### ■ Pre-collision brake assist

Applies greater braking force in relation to how strongly the brake pedal is depressed

#### Radar sensor



Detects vehicles or other obstacles on or near the road ahead and determines whether a collision is imminent based on the position, speed, and heading of the obstacles

#### ■ Obstacles not detected

The sensor cannot detect plastic obstacles such as pylons. There may also be occasions when the sensor cannot detect pedestrians, animals, bicycles, motorcycles, trees, or snowdrifts.



### ■ The pre-collision system is operational when

- Pre-collision seat belt:
  - Vehicle speed is above 3 mph (5 km/h).
  - The relative speed difference between your vehicle and another vehicle that is forward of your vehicle, or the speed at your vehicle is approaching an obstacle is greater than 18 mph (30 km/h).
  - The front occupants are wearing a seat belt.
- Pre-collision brake assist:
  - Vehicle speed is above 18 mph (30 km/h).
  - The relative speed difference between your vehicle and another vehicle that is forward of your vehicle, or the speed at your vehicle is approaching an obstacle is greater than 18 mph (30 km/h).
  - The brake pedal is depressed.

### ■ Conditions that may trigger the system even if there is no danger of collision

- When there is an object by the roadside at the entrance to a curve
- When passing an oncoming vehicle on a curve
- When driving over a narrow iron bridge
- When there is a metal object on the road surface
- When driving on an uneven road surface
- When passing an oncoming vehicle on a left-turn
- When your vehicle rapidly closes on the vehicle in front

When the system is activated in the situations described above, there is also a possibility that the seat belts will retract quickly and the brakes will be applied with a force greater than normal. When the seat belt is locked in the retracted position, stop the vehicle in a safe place, release the seat belt and refasten it.

### ■ When there is a malfunction in the system

Warning lights and/or warning messages will turn on or flash. (→P. 599, 607)

## ■ Certification

- ▶ For vehicles sold in U.S.A.

### FCC WARNING

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

### FCC RF exposure information

This device complies with the FCC RF exposure requirements.

- ▶ 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 received, including interference that may cause undesired operation of the device.

## CAUTION

### ■ Handling the radar sensor

Observe the following to ensure the pre-collision system can function effectively:

- Keep the sensor and front grille clean at all times.  
Clean the sensor and front grille with a soft cloth so you do not mark or damage them.
- Do not subject the sensor or surrounding area to a strong impact.  
If the sensor moves even slightly off position, the system may malfunction. If the sensor or surrounding area is subject to a strong impact, always have the area inspected and adjusted by a Lexus dealer.
- Do not disassemble the sensor.
- Do not attach accessories or stickers to the sensor, grille or surrounding area.
- Do not modify or paint the sensor and grille.

### ■ Limitations of the pre-collision system

Do not rely on the pre-collision system. Always drive safely, taking care to observe your surroundings and checking for any obstacles or other road hazards.

### Pre-Collision System (with camera sensor) (if equipped)

Safety systems such as the brakes and seat belts are automatically engaged to lessen impact and injuries to occupants as well as vehicle damage when the radar sensor detects an unavoidable frontal collision.

#### ■ Pre-collision seat belts

The front seat belts are immediately retracted as the effect of the pretensioner is increased (→P. 93) to help prepare the driver and front passenger. In the event of sudden braking or skidding, the system will operate even if no obstacle has been detected.

However, the system will not operate in the event of skidding when the TRAC/VSC systems are disabled.

#### ■ Pre-collision brake assist

When there is a high possibility of a frontal collision, the system applies greater braking force in relation to how strongly the brake pedal is depressed.

#### ■ Pre-collision braking

When there is a high possibility of a frontal collision, the system warns the driver using a warning light, warning display and buzzer. If the system determines that a collision is unavoidable, the brakes are automatically applied to reduce the collision speed. Pre-collision braking can be disabled using the pre-collision braking off button. (→P. 233)

#### ■ Suspension control

When the system determines that a collision is unavoidable, the suspension switches to "SPORT" mode to help prevent the front of the vehicle from dropping when the brakes are applied suddenly.

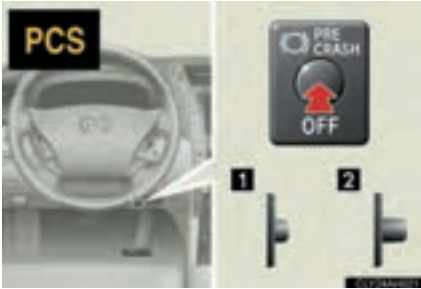
#### ■ Steering gear control (VGRS)

When the system determines that a collision is unavoidable, the steering gear ratio is changed to help improve the response to steering input.

#### ■ Driver monitor system

When the system determines that there is a possibility of a collision, and the driver is not facing forward, PCS warnings are given in advance to warn the driver. In some circumstances, the brakes will be applied briefly to give a sensory warning to the driver (pre-collision alert braking). (→P. 234)

## Disabling pre-collision braking



- 1 Pre-collision braking disabled
- 2 Pre-collision braking enabled

The “PCS” warning light flashes when pre-collision braking is disabled.

## Radar sensor



Detects vehicles or other obstacles on or near the road ahead and determines whether a collision is imminent based on the position, speed, and heading of the obstacles

## Camera sensors

▶ Discharge headlights



▶ LED headlights



Detect pedestrians and other three-dimensional objects on or near the road ahead together with the radar sensor while the vehicle is moving. When the headlights are on, near-infrared rays are projected to ensure proper detection performance in the night time.

1 Camera sensors

2 Near-infrared ray transmitters

## Driver monitor sensor



Detects the direction the driver is facing. The system determines whether the driver is facing forward.

### ■ Obstacles not detected

The sensor cannot detect plastic obstacles such as pylons. There may also be occasions when the radar sensor cannot detect pedestrians, animals, bicycles, motorcycles, trees, or snowdrifts.

### ■ A camera sensor cannot detect obstacles in the following situations:

- A camera sensor is directly receiving intense light, such as sunlight.
- Visibility is poor because of bad weather or other reasons.
- The sensor temperature is extremely high.

### ■ The pre-collision system is operational when

- Pre-collision seat belts:
  - Vehicle speed is above 3 mph (5 km/h).
  - The relative speed difference between your vehicle and another vehicle that is forward of your vehicle, or the speed at which your vehicle is approaching an obstacle is greater than 18 mph (30 km/h).
  - The front occupants are wearing a seat belt.
- Pre-collision brake assist:
  - Vehicle speed is above 18 mph (30 km/h).
  - The relative speed difference between your vehicle and another vehicle that is forward of your vehicle, or the speed at which your vehicle is approaching an obstacle is greater than 18 mph (30 km/h).
  - The brake pedal is depressed.
- Pre-collision braking:
  - The pre-collision braking off button is not pressed.
  - Vehicle speed is above 9 mph (15 km/h).
  - The relative speed difference between your vehicle and another vehicle that is forward of your vehicle, or the speed your vehicle is approaching an obstacle is greater than 9 mph (15 km/h).
- Suspension control:
  - Vehicle speed is above 3 mph (5 km/h).
  - The relative speed difference between your vehicle and another vehicle that is forward of your vehicle, or the speed at which your vehicle is approaching an obstacle is greater than 18 mph (30 km/h).

- Steering gear control (VGRS):

- Vehicle speed is above 18 mph (30 km/h).
- The relative speed difference between your vehicle and another vehicle that is forward of your vehicle, or the speed at which your vehicle is approaching an obstacle is greater than 18 mph (30 km/h).

- Pre-collision alert braking:

- The pre-collision braking off button is not pressed.
- The system determines that the driver is not facing forward.
- Vehicle speed is above 24 mph (40 km/h).
- The relative speed difference between your vehicle and another vehicle that is forward of your vehicle, or the speed at which your vehicle is approaching an obstacle is greater than 24 mph (40 km/h).
- The steering is not being turned.

- **Conditions that may trigger the system even if there is no danger of collision**

- When there is an object by the roadside at the entrance to a curve
- When passing an oncoming vehicle on a curve
- When driving over a narrow iron bridge
- When there is a metal object on the road surface
- When driving on an uneven road surface
- When passing an oncoming vehicle on a left-turn
- When your vehicle rapidly closes on the vehicle in front
- When your vehicle is skidding with the TRAC/VSC system off

When the system is activated in the situations described above, there is also a possibility that the seat belts will retract quickly and the brakes will be applied with a force greater than normal. When the seat belt is locked in the retracted position, stop the vehicle in a safe place, release the seat belt and refasten it.

- **When there is a malfunction in the system**

Warning lights and/or warning messages will turn on or flash. (→P. 599, 607)

## ■ Certification

- ▶ For vehicles sold in U.S.A.

### FCC WARNING

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

### FCC RF exposure information

This device complies with the FCC RF exposure requirements.

- ▶ 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 received, including interference that may cause undesired operation of the device.



### CAUTION

#### ■ Handling the radar sensor

Observe the following to ensure the pre-collision system can function effectively:


- Keep the sensor and front grille clean at all times.  
Clean the sensor and front grille with a soft cloth so you do not mark or damage them.
- Do not subject the sensor or surrounding area to a strong impact.  
If the sensor moves even slightly off position, the system may malfunction. If the sensor or surrounding area is subject to a strong impact, always have the area inspected and adjusted by a Lexus dealer.
- Do not disassemble the sensor.
- Do not attach accessories or stickers to the sensor, grille or surrounding area.
- Do not modify or paint the sensor and grille.

#### ■ Handling the driver monitor sensor

Observe the following to ensure the driver monitor sensor can function effectively.

Failure to do so may result in a malfunction or may prevent the system from correctly determining the direction the driver is facing.

- Do not disassemble, damage, lift or pull on the sensor.
- Do not touch the sensor while driving.
- Do not wet or spill water on the sensor.
- Do not drop anything on or allow anything to hit against the sensor. Do not subject the sensor to an impact.
- Make sure that there are no scratches, dirt or stickers on the side of the sensor that faces the driver.
- Do not place any objects in front of the side of the sensor that faces the driver or cover the sensor.

 **CAUTION****■ Handling the camera sensors**

Observe the following to ensure that the PCS functions correctly:

- Keep the windshield clean at all times.  
PCS effectiveness may be reduced due to the presence of raindrops, condensation, ice or snow on the windshield.
- Do not change the installation position of a camera sensor, or remove and reinstall it. The direction of a camera sensor is precisely adjusted.
- When it is cold, using the heater with air blowing to the feet may allow the upper part of the windshield to fog up. This will have a negative effect on the images. In such a case, use the windshield defogger to provide warm, dry air to the windshield.
- Do not place anything on the dashboard.  
Images reflected on the windshield may reduce the effectiveness of a camera sensor.
- Do not attach a sticker or other items to the windshield near a camera sensor.

**■ Determining the direction the driver is facing**

The direction the driver is facing may not be determined correctly if any of the following conditions exist:

- There is an object between the driver monitor sensor and the driver's face, such as when the sensor is blocked.
- A part of the driver's face is covered.
- The sensor or the driver's face is exposed to intense light such as sunlight.
- The driving posture is improper.

**■ Headlights**

The near-infrared ray transmitter projects strong energy that is not visible. Although the transmitter normally turns off when the vehicle is stopped, never look into the headlights for your safety.

**■ Limitations of the pre-collision system**

Do not rely on the pre-collision system. Always drive safely, taking care to observe your surroundings and checking for any obstacles or other road hazards.

### NOTICE

#### ■ Camera sensors

Observe the following to ensure that the PCS functions correctly:

- Do not subject a camera sensor to a strong impact or force, and do not disassemble a camera sensor.
- Do not scratch camera lens, or let it get dirty.

#### ■ Headlights

Observe the following to ensure proper near-infrared ray projection:

- Keep the headlights clean at all times.
- The detection performance may deteriorate if the high beams are misaligned or the high beams are inoperative.

#### ■ Precautions for cleaning the driver monitor sensor

- Gently wipe the sensor with a soft cloth to prevent damage.
- Wipe any excess dirt with a cloth dampened with neutral detergent, all liquids having been wringed out of the cloth. After that, wipe again with a dry cloth.
- Do not use benzene, thinner, glass cleaners, wax, etc.

## Cargo and luggage

Take notice of the following information about storage precautions, cargo capacity and load:

- Stow cargo and luggage in the trunk whenever 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—

- (1) Locate the statement “The combined weight of occupants and cargo should never exceed XXX kg or XXX lbs.” on your vehicle’s placard.
- (2) Determine the combined weight of the driver and passengers that will be riding in your vehicle.
- (3) Subtract the combined weight of the driver and passengers from XXX kg or XXX lbs.
- (4) The resulting figure equals the available amount of cargo and luggage load capacity.

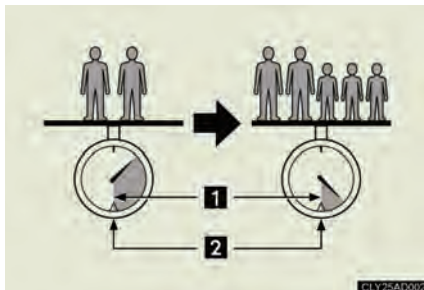
For example, if the “XXX” amount equals 1400 lbs. and there will be five 150 lb passengers in your vehicle, the amount of available cargo and luggage load capacity is 650 lbs.  $(1400 - 750 (5 \times 150) = 650$  lbs.)

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

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

Lexus does not recommend towing a trailer with your vehicle. Your vehicle is not designed for trailer towing.

### Example based on your vehicle



- 1 Cargo capacity
- 2 Total load capacity


When 2 people with a combined weight of 366 lb. (166 kg) are riding in your vehicle, which has a total load capacity of 825 lb. (375 kg), the available amount of cargo and luggage load capacity will be as follows:

$$825 \text{ lb.} - 366 \text{ lb.} = 459 \text{ lb.} \quad (375 \text{ kg} - 166 \text{ kg} = 209 \text{ kg})$$

In this condition, if 3 more passengers with a combined weight of 388 lb. (176 kg) get in, the available cargo and luggage load will be reduced as follows:

$$459 \text{ lb.} - 388 \text{ lb.} = 71 \text{ lb.} \quad (209 \text{ kg} - 176 \text{ kg} = 33 \text{ kg})$$

As shown in the example above, if the number of occupants increases, the cargo and luggage load will be reduced by an amount that equals the increased weight due to the additional occupants. 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.

 **CAUTION****■ Things that must not be carried in the trunk**

The following things may cause a fire if loaded in the trunk:

- Receptacles containing gasoline
- Aerosol cans

**■ 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.

**■ Capacity and distribution**

- 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. Improper loading may cause deterioration of steering or braking control which may cause death or serious injury.

## 2-5. Driving information

# Vehicle load limits

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

### ■ Total load capacity:

#### ▶ 5-seat models

825 lb (375 kg)

#### ▶ 4-seat models

675 lb (307 kg)

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

### ■ Seating capacity:

#### ▶ 5-seat models

5 occupants (Front 2, Rear 3)

#### ▶ 4-seat models

4 occupants (Front 2, Rear 2)

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

### ■ Towing capacity

Lexus does not recommend towing a trailer with your vehicle.


### ■ Cargo capacity

Cargo capacity may increase or decrease depending on the weight and the number of occupants.

---

### ■ Total load capacity and seating capacity

These details are also described on the tire and loading information label.  
(→P. 543)

 **CAUTION****■ Overloading the vehicle**

Do not overload the vehicle.

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



## 2-5. Driving information

# Winter driving tips

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

### ■ Pre-winter preparations

- Use fluids that are appropriate to the prevailing outside temperatures.
  - Engine oil
  - Engine/power control unit coolant
  - Washer fluid
- Have a service technician 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 the 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 according to the driving conditions:

- Do not try to forcibly open a window or move a wiper that is frozen. Pour 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 have accumulated 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

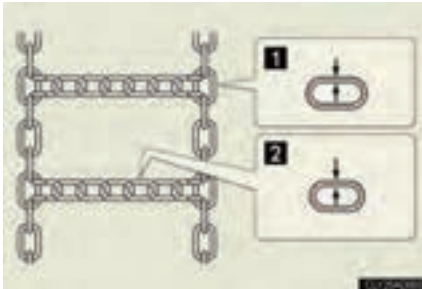
Park the vehicle and move the shift lever to "P" without setting the parking brake. The parking brake may freeze up, preventing it from being released.

2

When driving

## Selecting snow chains

Use the correct snow chain size when mounting the snow chains. Chain size is regulated for each tire size.



- 1 Side chain  
(0.12 in. [3 mm] in diameter)
- 2 Cross chain  
(0.16 in. [4 mm] in diameter)

## 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.
- Install the chains on the rear tires.
- Retighten the chains after driving 1/4 - 1/2 mile (0.5 - 1.0 km).

### ■ Snow chain installation

Observe the following precautions when installing and removing chains:

- 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 in the accompanying instructions.

### CAUTION

#### ■ Driving with snow tires

Observe the following precautions to reduce the risk of accidents.

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

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

#### ■ Driving with snow chains

Observe the following precautions to reduce the risk of accidents.

Failure to do so may result in the vehicle being unable to be driven safely, and 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 over potholes.
- Avoid sudden turns and braking, as use of chains may adversely affect vehicle handling.
- Slow down sufficiently before entering a curve to ensure that vehicle control is maintained.

 NOTICE**■ Repairing or replacing snow tires**

Request repairs and obtain replacement of snow tires from Lexus dealers or legitimate tire retailers.

This is because the removal and attachment of snow tires affects the operation of the tire air pressure sensor.

**■ Fitting tire chains**

The tire air pressure sensor may not function correctly when tire chains are fitted.

## 2-5. Driving information

### Trailer towing

Lexus does not recommend towing a trailer with your vehicle. Lexus also does not recommend the installation of a tow hitch or the use of 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 carriers.



## Dinghy towing

Your vehicle is not designed to be dinghy towed (with 4 wheels on the ground) behind a motor home.



 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 touch screen

## Touch screen (without navigation system)

By touching the screen with your finger, you can control the audio system and air conditioning system, and adjust the screen display etc.

Press  to display the “Information” screen.

Owners of models equipped with a navigation system should refer to the “Navigation System Owner’s Manual”.



Button/switch	Page
"CLIMATE"	P. 262, 271
"AUDIO"	P. 292
"INFO" (Displaying the "Information" screen)	P. 254
"DISP" (Adjusting the display)	P. 257
"Trip information"	P. 34
"Telephone"	P. 393
"LEXUS Park Assist"	P. 215
"Screen Setting"	P. 259
"Beep Off"	P. 257
"Adjust Clock"	P. 450

### The initial screen



If the “POWER” switch is turned to “ACC” or “ON” mode, the initial screen will be displayed for a few seconds as the system starts up.

#### ■ To avoid damaging the touch screen

- Touch the screen lightly with your finger. If there is no response, remove your finger from the screen and try again.
- Remove any dirt on the screen by wiping with a soft cloth. Do not use detergent.

#### ■ When using the touch screen

- If the screen is cold, the display may be dark, or the system may seem to be operating slightly slower than normal.
- The screen may seem dark and hard to see when viewed through sunglasses. Change your angle of viewing, adjust the display on the “Display” screen or remove your sunglasses.

## 3-1. Using the touch screen

# Setting the touch screen

You can change the touch screen to your desired settings.

### Turning off the beep sound

The beep that sounds when a touch screen switch is touched can be turned off.

**STEP 1** Press  .



Touch  .

### Adjusting the display

**STEP 1** Press  .

**STEP 2** Adjust the display as desired using  /  and  /  .

If you do not touch the screen for 20 seconds, the system will return to the previous screen.

► With CD mode



► With DVD mode



"Color"	Red	Green
"Tone"	Lighter	Darker
"Contrast"	Weaker	Stronger
"Brightness"	Darker	Brighter

■ "Day Mode"



When the headlights are turned on, the screen dims. However, the screen can be switched to "Day Mode".

The screen will stay in "Day Mode" when the headlights are turned on until is touched again.

■ To turn off the picture display

If is touched, the screen display is turned off, and guidance is by voice only.

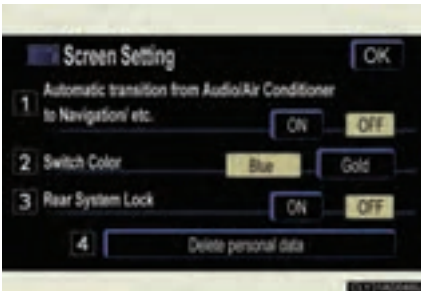
### ■ Opening or closing the rear display (if equipped)



Touching **Rear** opens or closes the rear display.

## Screen settings

The following screen settings can be changed:



#### 1 Automatic transition

20 seconds after audio system use, the system will return the display to the previous screen.

#### 2 Switch color

You can select the switch color.

#### 3 Rear system lock (if equipped)

The operation lock on the rear seat entertainment system can be turned on or off.

#### 4 Personal data deletion



The following personal data is deleted:

- User selection settings
- Phone book data
- Dialed numbers and incoming calls
- Speed dial
- Bluetooth® phone data
- Security code

### ■ Setting automatic transition

**STEP 1** Press  .


**STEP 2** Touch  on the “Information” screen.

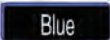

**STEP 3** Touch  or  on the “Screen Setting” screen.

**STEP 4** Touch  .

### ■ Setting the switch color

**STEP 1** Press  .


**STEP 2** Touch  on the “Information” screen.


**STEP 3** Touch  or  on the “Screen Setting” screen.

**STEP 4** Touch  .

### ■ Setting the rear system lock

**STEP 1** Press  .


**STEP 2** Touch  on the “Information” screen.

**STEP 3** Touch  or  on the “Screen Setting” screen.

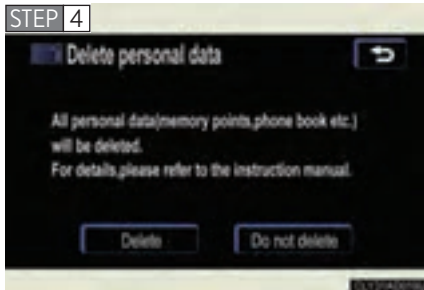
**STEP 4** Touch  .

### ■ To delete personal data

**STEP 1** Press  .

**STEP 2** Touch  on the “Information” screen.

**STEP 3** Touch  on the “Screen Setting” screen.



Touch  .

Check carefully beforehand, as data cannot be retrieved once deleted.

### ■ When deleting personal data

Data can only be deleted when the vehicle is stopped.

### ■ When selling the vehicle

Be sure to delete both the call history and personal data.


### ■ If you touch

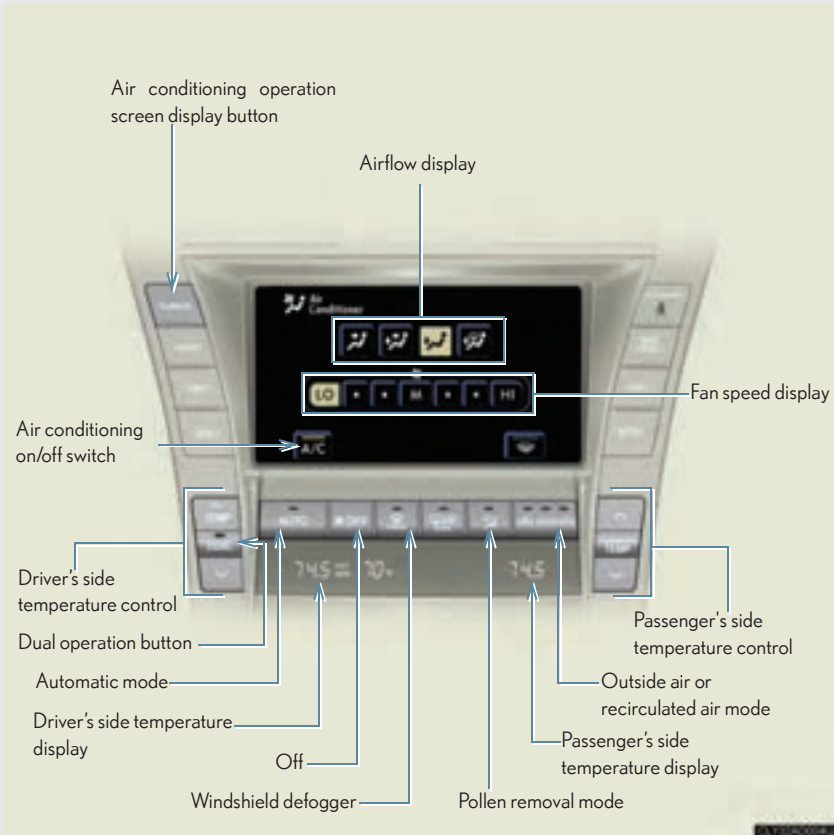
The display returns to the previous screen.



### 3-2. Using the air conditioning system and defogger Front air conditioning system (without rear air conditioning system)

Airflow and outlets are automatically adjusted according to the temperature setting.


Press  to display the air conditioning operation screen.



This illustration is for a vehicle equipped with the navigation system.

### Using the speech command system (if equipped)



Pull  to operate the speech command system. (→ “Navigation System Owner’s Manual”)


### Using the automatic mode

**STEP 1** Press  .

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

**STEP 2** Press  to switch to automatic air intake mode.


➔ The air conditioning system automatically switches between outside air and recirculated air modes.


**STEP 3** Press  $\wedge$  on  to increase the temperature and  $\vee$  to decrease the temperature.


The temperature for the driver and passenger seats can be set separately.



## Adjusting the settings

### ■ Adjusting the temperature setting

Press  $\wedge$  on  to increase the temperature and  $\vee$  to decrease the temperature.


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

Dual mode (the indicator on  is on.): The temperature for the left-hand seat and right-hand seat can be adjusted separately. Operating the passenger's side temperature control will enter dual mode.

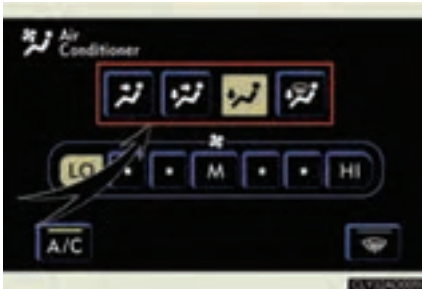
Simultaneous mode (the indicator on  is off.): Only  (driver's side) can be used to adjust the temperature for all seats.

### ■ Adjusting the fan speed

Touch any switch of  (decrease  $\leftrightarrow$  increase) on the operation screen.

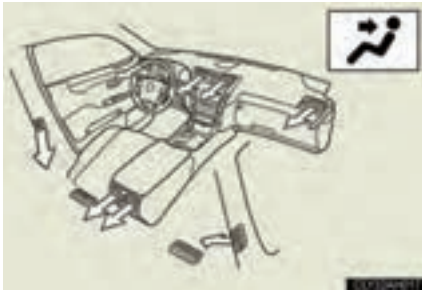
Press  to turn the fan off.

### ■ Changing the air outlets

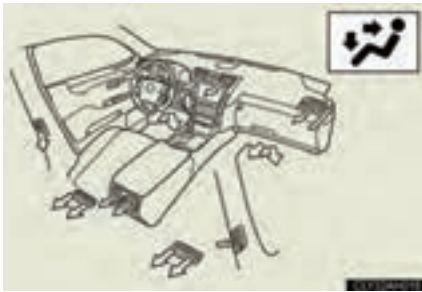


Touch any mode on the operation screen.

Air flows as shown below according to the mode selected.

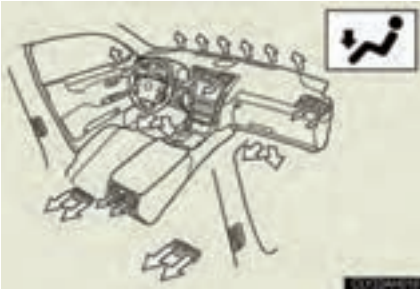


Upper body

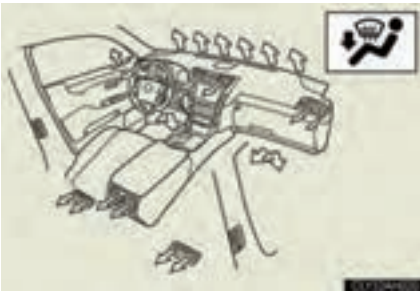


Upper body and feet

## 3-2. Using the air conditioning system and defogger





Feet



Feet and front windshield

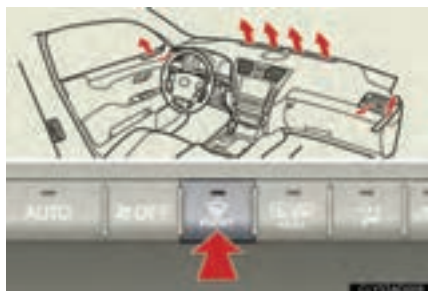
### ■ Switching between outside air and recirculated air modes

Press  .

The mode switches between  (recycles air inside the vehicle), “AUTO” and  (introduces air from outside the vehicle) modes each time the button is pressed.

When the air intake control system is switched to automatic mode, it operates automatically.

## Defogging the windshield




Press .

The air conditioning system control operates automatically.


## Pollen removal mode



Press .

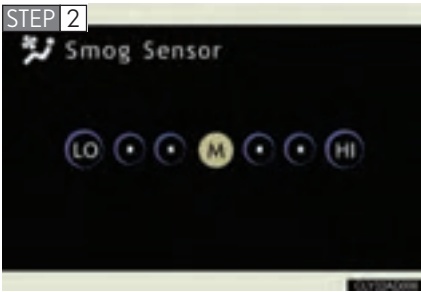
Outside air mode switches to  (recirculated air) mode. Pollen is removed from the air and the air flows to the upper part of the body.


Usually the system will turn off automatically after approximately 3 minutes.

To stop the operation, press  again.

### Adjusting the sensitivity of the air intake control in automatic mode

**STEP 1** Press  until the “Smog Sensor” screen appears while the vehicle is stopped.



Touch any switch of  (lower sensitivity ↔ higher sensitivity) on the operation screen.

### Adjusting the position and opening and closing the air outlets

#### ► Front center outlets



- 1 Direct air flow to the left or right, up or down.
- 2 Turn the knob to open or close the vent.

#### ► Front side outlets



- 1 Direct air flow to the left or right, up or down.
- 2 Turn the knob to open or close the vent.

► Rear center outlets



- 1 Direct air flow to the left or right, up or down.
- 2 Turn the knob to open or close the vent.


► Rear side outlets



- 1 Direct air flow to the left or right, up or down.
- 2 Turn the knob to open or close the vent.

■ Using the automatic mode

Fan speed is adjusted automatically in accordance with the temperature setting and ambient conditions. As a result, the following may occur:

- The system may switch automatically to recirculated air mode when the coolest temperature setting is selected in summer.
- Immediately after  is pressed, the fan may stop for a while until warm or cool air is ready to flow.
- Cool air may flow to the area around the upper body when the heater is on.


■ Using the system in recirculated air mode

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



## 3-2. Using the air conditioning system and defogger

### ■ Window defogger feature

Recirculated air mode may automatically switch to  (outside air) mode in situations where the windows need to be defogged.

### ■ When the hybrid battery cooling system operates



If the hybrid battery cooling system operates when the air conditioning is off, a message will be shown on the multi-information display and the air conditioning will automatically turn on. (→P. 184)

### ■ Automatic mode for air intake control

In automatic mode, the system detects exhaust gas and other pollutants and automatically switches between outside air and recirculated air modes.


When the air conditioning is off, and the fan is operating, turning the "AUTO" mode on will activate the air conditioning system.

### ■ Pollen removal mode

- When the outside air is cold, the following may occur:
  - Outside air mode does not switch to .
  - The air conditioning system operates automatically.
  - The operation cancels after 1 minute.
- In rainy weather, the windows may fog up. Press .

### CAUTION

#### ■ To prevent the windshield from fogging up

Do not use  during cool air operation in extremely humid weather. The difference between the temperature of the outside air and that of the windshield can cause the outer surface of the windshield to fog up, blocking your vision.

### NOTICE


#### ■ To prevent the 12-volt battery from being discharged

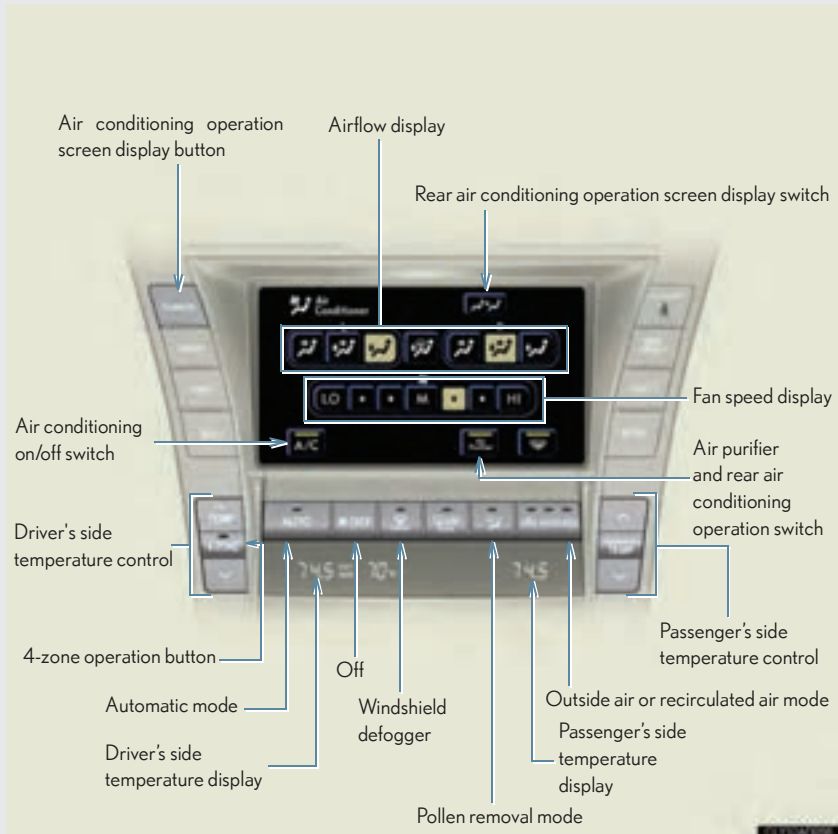
Do not leave the air conditioning system on longer than necessary when the hybrid system is off.

### 3-2. Using the air conditioning system and defogger

## Front air conditioning system (with rear air conditioning system)

Airflow and outlets are automatically adjusted according to the temperature setting.


Press  to display the air conditioning operation screen.



This illustration is for a vehicle equipped with the navigation system.

### Using the speech command system (if equipped)




Pull  to operate the speech command system. (→ “Navigation System Owner’s Manual”)

### Using the automatic mode



**STEP 1** Press  .

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

“AUTO” will be displayed on the control panel.

**STEP 2** Press  to switch to automatic air intake mode.


➔ The air conditioning system automatically switches between outside air and recirculated air modes.


**STEP 3** Press  to increase the temperature and  to decrease the temperature.


Air outlets and fan speed for the right-hand and left-hand seats may be set separately depending on the temperature setting.



## Adjusting the settings

### ■ Adjusting the temperature setting

Press  $\wedge$  on  to increase the temperature and  $\vee$  to decrease the temperature.


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

Individual mode (the indicator on  is on.): The temperature for the driver's, front passenger's and rear seats ( $\rightarrow$ P. 283) can be adjusted separately. Operating the passenger's side temperature control will enter individual mode.

Simultaneous mode (the indicator on  is off.): Only  (driver's side) can be used to adjust the temperature for all seats.

### ■ Adjusting the fan speed

Touch any switch of  (decrease  $\leftrightarrow$  increase) on the operation screen.

Press  to turn the fan off.

### ■ Changing the air outlets

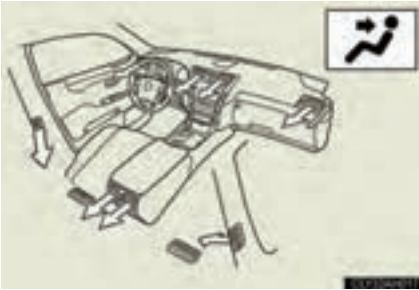


Touch any mode on the operation screen.

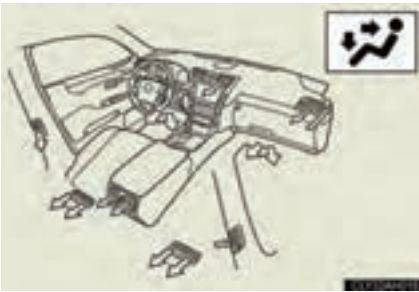
- 1 L: Left-hand front seat
- 2 R: Right-hand front seat

Different air outlets for the left-hand and right-hand front seats can be chosen.

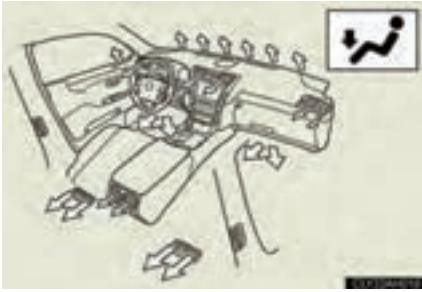
Air flows as shown below according to the mode selected.



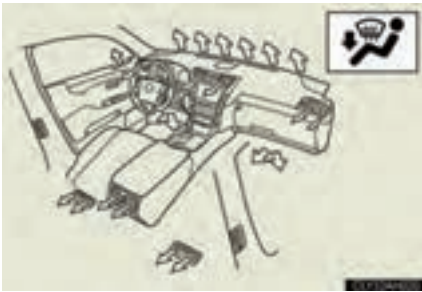
Upper body



Upper body and feet





Feet



Feet and front windshield

### ■ Switching between outside air and recirculated air modes

Press  .


The mode switches between  (recycles air inside the vehicle), "AUTO" and  (introduces air from outside the vehicle) modes each time the button is pressed.

When the air intake control system is switched to automatic mode, it operates automatically.

### Turning the air purifier off

Touch  on the operation screen.

The air purifier will turn off when the indicator on the switch goes off. Air will not flow from the roof vents.



To turn the air purifier on, touch  again.

### Changing the rear seat settings

#### ■ Adjusting the temperature setting


**STEP 1** Touch .



Touch  (increase) or  (decrease) on the operation screen. Operating the switch will enter individual mode.

**1** L: Left-hand rear seat

**2** R: Right-hand rear seat

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

#### ■ Adjusting the fan speed (air purifier and cool air from the roof vents)

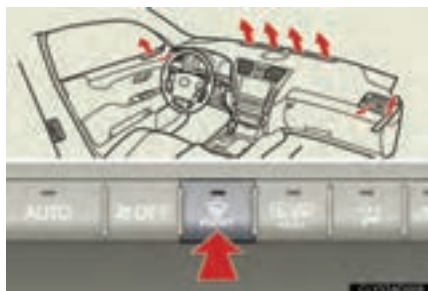
**STEP 1** Touch .

**STEP 2** Touch any switch of  (decrease ↔ increase) on the operation screen.

According to the air outlets currently selected, the fan speed of either the cool air from the roof vents or air purifier will be adjusted. (→P. 285)

Press  to turn the fan off.

## Defogging the windshield




Press .

The air conditioning system control operates automatically.


## Pollen removal mode



Press .

Outside air mode switches to  (recirculated air) mode. Pollen is removed from the air and the air flows to the upper part of the body.

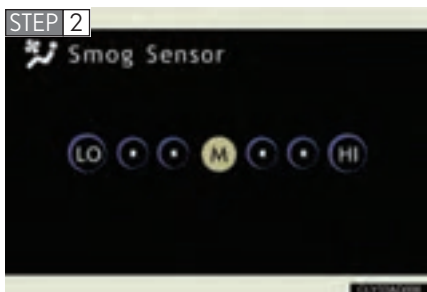
Usually the system will turn off automatically after approximately 3 minutes.


To stop the operation, press  again.



### Adjusting the sensitivity of the air intake control in automatic mode

**STEP 1** Press  until the “Smog Sensor” screen appears while the vehicle is stopped.



Touch any switch of  (lower sensitivity ↔ higher sensitivity) on the operation screen.

### Adjusting the position and opening and closing the air outlets

#### ► Front center outlets



- 1 Direct air flow to the left or right, up or down.
- 2 Turn the knob to open or close the vent.

#### ► Front side outlets




- 1 Direct air flow to the left or right, up or down.
- 2 Turn the knob to open or close the vent.

Air outlets of the rear seat. (→P. 286)

### ■ Using the automatic mode

Fan speed is adjusted automatically in accordance with the temperature setting and ambient conditions. As a result, the following may occur:

- The system may switch automatically to recirculated air mode when the coolest temperature setting is selected in summer.
- Immediately after  is pressed, the fan may stop for a while until warm or cool air is ready to flow.
- Cool air may flow to the area around the upper body when the heater is on.

### ■ Using the system in recirculated air mode

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

### ■ Window defogger feature

Recirculated air mode may automatically switch to  (outside air) mode in situations where the windows need to be defogged.

### ■ When the hybrid battery cooling system operates



If the hybrid battery cooling system operates when the air conditioning is off, a message will be shown on the multi-information display and the air conditioning will automatically turn on. (→P.184)

### ■ Automatic mode for air intake control

In automatic mode, the system detects exhaust gas and other pollutants and automatically switches between outside air and recirculated air modes.

When the air conditioning is off, and the fan is operating, turning the "AUTO" mode on will activate the air conditioning system.

### ■ Pollen removal mode


- When the outside air is cold, the following may occur:
  - Outside air mode does not switch to .
  - The air conditioning system operates automatically.
  - The operation cancels after 1 minute.
- In rainy weather, the windows may fog up. Press .

### ■ Air purifier

The air purifier will turn on when turning the rear air conditioning system on.

### CAUTION

#### ■ To prevent the windshield from fogging up

Do not use  during cool air operation in extremely humid weather. The difference between the temperature of the outside air and that of the windshield can cause the outer surface of the windshield to fog up, blocking your vision.

### NOTICE

#### ■ To prevent the 12-volt battery from being discharged

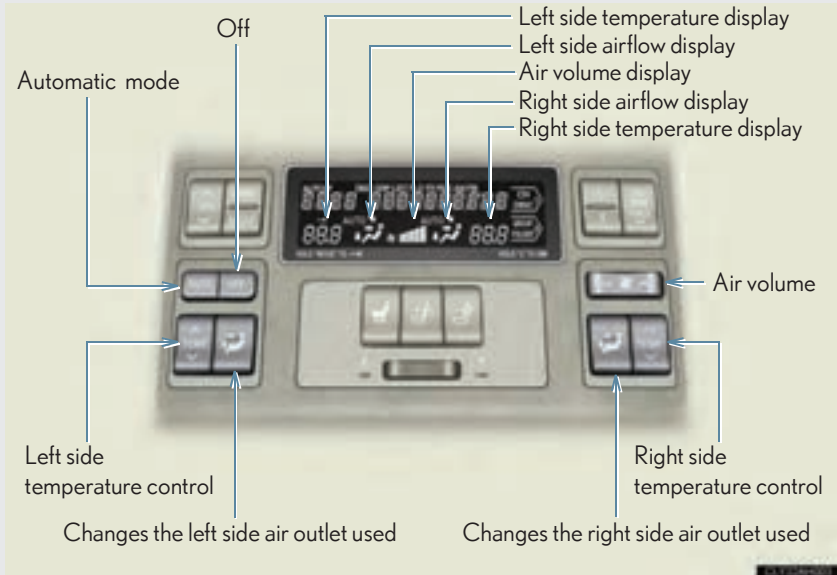
Do not leave the air conditioning system on longer than necessary when the hybrid system is off.

## 3-2. Using the air conditioning system and defogger

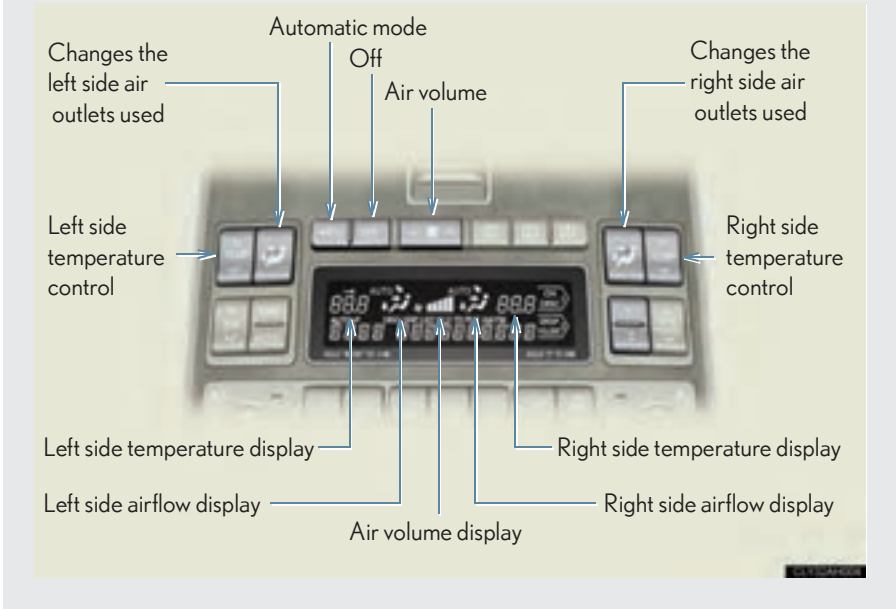
### Rear air conditioning system (if equipped)

Airflow and outlets are automatically adjusted according to the temperature setting.

#### ► 5-seat models



► 4-seat models




## Using the automatic mode

**STEP 1** Press  .

➔ The air conditioning system and air purifier will operate, and air outlets and fan speed will be set automatically.


“AUTO” will be displayed on the control panel.

**STEP 2** Press  $\wedge$  on  to increase the temperature and  $\vee$  to decrease the temperature.

Air outlets and fan speed for the right-hand and left-hand seats may be set separately depending on the temperature setting.

## Adjusting the settings


### ■ Adjusting the temperature setting

Press  $\wedge$  on  to increase the temperature and  $\vee$  to decrease the temperature.

Air outlets and fan speed for the right-hand and left-hand seats may be set separately depending on the temperature setting.

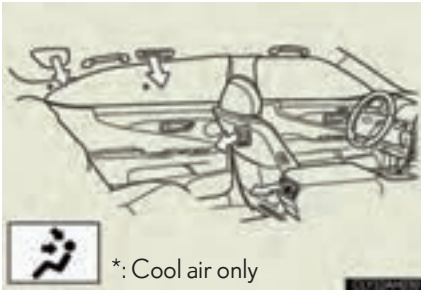
### ■ Changing the air outlets

Press .


The air outlets change as follows each time the  is pressed.

Different air outlets for the right-hand and left-hand rear seats can be chosen.

Air flows as shown below according to the mode selected.




Upper body

When the indicator on  (on the front operation screen) is on



Upper body

When the indicator on  (on the front operation screen) is off



Upper body and feet



Feet

■ Adjusting the air volume

The volume of cool air or air from the air purifier can be adjusted according to the mode selected.


Press ^ (increase) or v (decrease) on .



Cool air flows from roof vents.



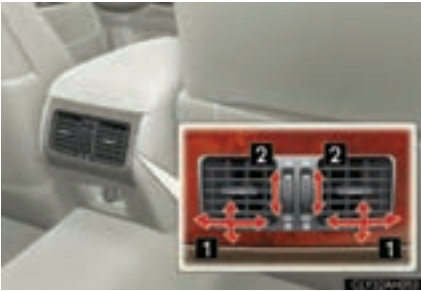
Air purifier operation (air flows from the rear package tray.)

Press  to turn the fan off.



## Adjusting the position and opening and closing the air outlets

### ► Rear center outlets



- 1 Direct air flow to the left or right, up or down.
- 2 Turn the knob to open or close the vent.

### ► Rear side outlets



- 1 Direct air flow to the left or right, up or down.
- 2 Turn the knob to open or close the vent.

### ► Roof side outlets



- 1 Direct air flow to the left or right, up or down.

## ■ Button lock function

### ▶ 5-seat models



To prevent inadvertent operation, the buttons on the rear armrest can be locked. Press **MODE** until you hear a beep to lock the buttons. Pressing **MODE** again until you hear a beep will release the lock.

The indicator appears on the display when the buttons are locked.



### ▶ 4-seat models



### ■ Rear control panel illumination off function

#### ▶ 5-seat models



Control panel illumination on the rear armrest can be turned off. Press  until you hear a beep to turn the illumination off. Pressing  again until you hear a beep will turn the illumination on.

#### ▶ 4-seat models



### ■ Replacing the rear air conditioning filter

Replacing the air filter when using rear air conditioning or air purifier reduces air flow or deodorizing performance. (→P. 551)

#### NOTICE

#### ■ To prevent the 12-volt battery from being discharged

Do not leave the air conditioning system on longer than necessary when the hybrid system is off.

### 3-2. Using the air conditioning system and defogger

## Rear window and outside rear view mirror defoggers

These features are used to defog the rear window, and to remove rain-drops, dew and frost from the outside rear view mirrors.



#### On/off

Press the button to turn on the rear window and outside rear view mirror defoggers. The defoggers will automatically turn off after approximately 15 minutes. Pressing the button again also turns the defoggers off.

#### CAUTION

#### ■ When the outside rear view mirror defoggers are on

Do not touch the outside surface of the rear view mirrors, as they can become very hot and burn you.

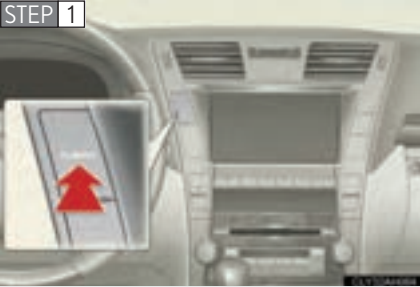
### 3-2. Using the air conditioning system and defogger

## Windshield wiper de-icer (if equipped)

This feature is used to prevent ice from building up on the windshield and wiper blades.

► Vehicles without navigation system

STEP 1



Press  .

► Vehicles with navigation system

STEP 1




Press  .

STEP 2



On/off

Touch the switch to turn on the windshield wiper de-icer. The windshield wiper de-icer will automatically turn off after approximately 15 minutes. Touching the switch again also turns the de-icer off.

 CAUTION


■ **When the windshield wiper de-icer is on**

Do not touch the glass at the lower part of the windshield or to the side of the front pillars as the surfaces can become very hot and burn you.

### 3-3. Using the audio system

## Audio system (without navigation system)

DVD player with changer and AM/FM radio

Press  to display the audio operation screen.

Owners of models equipped with a navigation system should refer to the “Navigation System Owner's Manual”.



Title	Page
Using the radio	P. 295
Using the DVD player	P. 300
Playing an audio CD	P. 303
Playing MP3 and WMA discs	P. 307
Playing DVD video/audio	P. 311
Playing a video CD	P. 324
DVD player and DVD video disc information	P. 328
Optimal use of the audio/video system	P. 338
Using the AUX adapter	P. 342
Using the rear seat audio controls	P. 343
Using the steering wheel audio buttons	P. 347

### ■ Using cellular phones

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



#### CAUTION

##### ■ For vehicles sold in U.S.A. and Canada

###### ● Part 15 of the FCC Rules

FCC Warning:

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

###### ● Laser products

- Do not take this unit apart or attempt to make any changes by yourself.

This is an intricate unit that uses a laser pickup to retrieve information from the surface of compact discs. The laser is carefully shielded so that its rays remain inside the cabinet. Therefore, never try to disassemble the player or alter any of its parts since you may be exposed to laser rays and dangerous voltages.

- This product utilizes a laser.

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

#### NOTICE

##### ■ To prevent the 12-volt battery from being discharged

Do not leave the audio system on longer than necessary when the hybrid system is off.

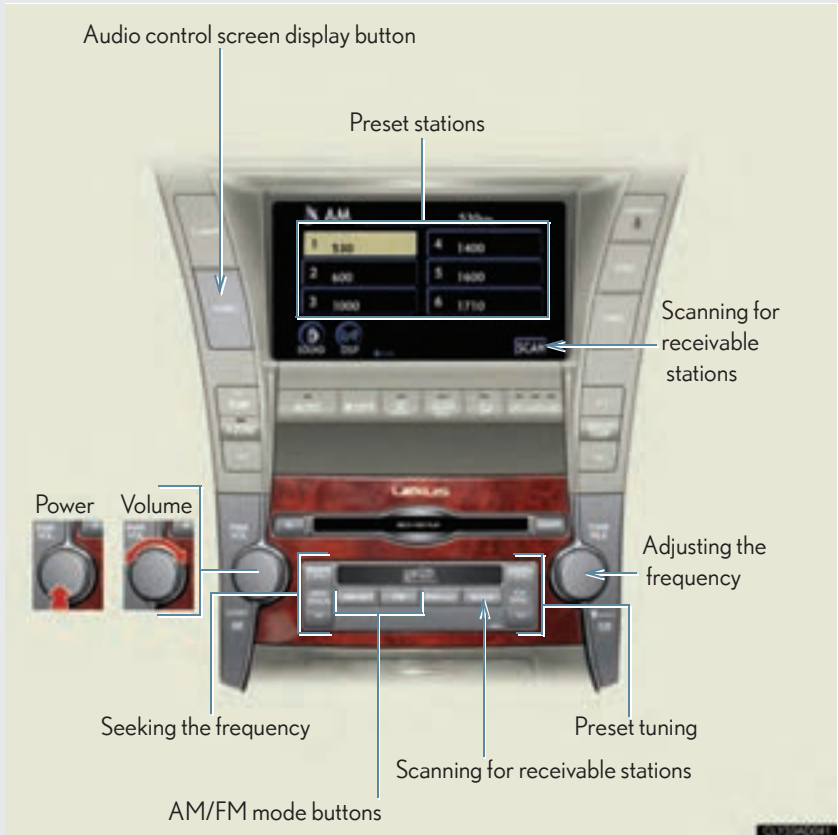
##### ■ To avoid damaging the audio system

Take care not to spill drinks or other fluids on the audio system.

### 3-3. Using the audio system

## Using the radio

Press **AM-SAT** or **FM** to choose either an AM or FM band.



#### Setting station presets

**STEP 1** Search for desired stations by turning  or pressing







**STEP 2** Touch and hold one of the preset stations (1 - 6) until you hear a beep.

#### Scanning radio stations

##### ■ Scanning the preset radio stations

###### ▶ AM station

**STEP 1** Touch  on the screen or press  until "P-SCAN" appears.  
Preset stations will be played for a few seconds each.

**STEP 2** When the desired station is reached, touch  or press  once again.

###### ▶ FM station

**STEP 1** Press  until "P-SCAN" appears.

**STEP 2** When the desired station is reached, press the button once again.

## ■ Scanning all radio stations within range

### ▶ AM station

**STEP 1** Touch **SCAN** on the screen or press **SCAN**.

“SCAN” appears on the screen and all stations within range will be played for a few seconds each.

**STEP 2** When the desired station is reached, touch **SCAN** or press **SCAN** once again.

### ▶ FM station

**STEP 1** Press **SCAN**.

“SCAN” appears on the screen and all stations within range will be played for a few seconds each.

**STEP 2** When the desired station is reached, press **SCAN** once again.

## RDS (Radio Data System)

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

**STEP 1**



Touch **TYPE** or **TYPE** on the screen.

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

- “ROCK”
- “EASYLIS” (Easy listening)
- “CLS/JAZZ” (Classical music and Jazz)
- “R & B” (Rhythm and Blues)
- “INFORM” (Information)
- “RELIGION”
- “MISC” (Miscellaneous)
- “ALARM” (Emergency messages)

If the system receives no RDS stations, “NO PTY” appears on the display.

When a program is set, “TYPE SEEK” appears.

**STEP 2** Touch **TYPE SEEK** on the screen or press  $\wedge$  or  $\vee$  on **SEEK TRACK**.

The radio seeks or scans for stations by the relevant program type.

If no radio station of that type is found, “NOTHING” appears on the screen.

#### ■ Displaying radio text messages



Touch **MSG** on the screen.

If “MSG” appears on the screen, a text message may be displayed.

When you touch **MSG OFF**, the display returns.

### ■ Traffic announcement



Touch **TRAF** on the screen.

“TRAF SEEK” appears on the display, and the radio will start seeking any station broadcasting traffic program information.

If no traffic program station is found, “NOTHING” appears on the display.

### ■ When the 12-volt battery is disconnected

All preset stations are erased.

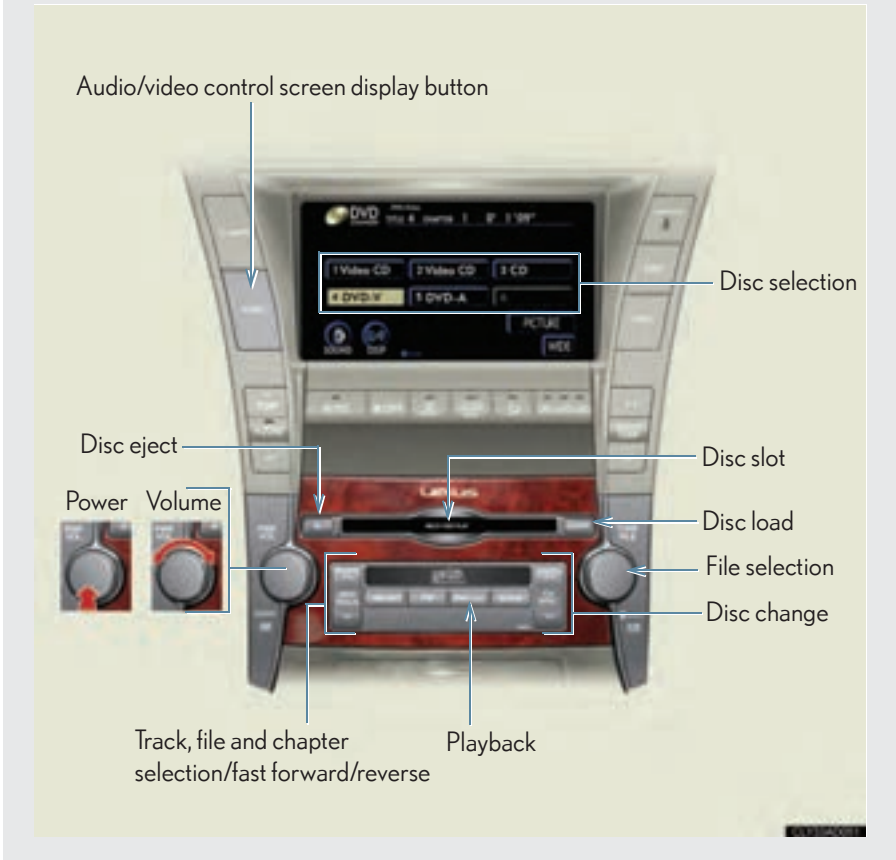
### ■ Reception sensitivity

- 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 radio antenna is mounted inside the rear window. To maintain clear radio reception, do not attach metallic window tinting or other metallic objects to the antenna wire mounted inside the rear window.

### 3-3. Using the audio system

## Using the DVD player

Insert a disc or press **DISC-AUX** or **DISC** with a disc inserted.



## Loading a disc

### ■ Loading a single disc

**STEP 1** Press **LOAD**.

**STEP 2** When the indicator changes from flashing amber to green, insert a disc after the DVD player door opens.

### ■ Loading multiple discs

**STEP 1** Press and hold **LOAD** until you hear a beep.

**STEP 2** When the indicator changes from flashing amber to green, insert a disc after the DVD player door opens.

**STEP 3** After inserting a disc, wait until the indicator changes from flashing amber to green, then insert the next disc after the DVD player door has opened.

**STEP 4** Repeat steps 2 and 3 until you have inserted all discs.

To cancel the operation, press the **LOAD** or **DISC-AMP** button. If you do not insert a disc within 15 seconds, loading will be canceled automatically.

### ■ DVD hint screen



This screen appears when a DVD video, DVD audio or video CD is first selected with the "POWER" switch in "ACC" or "ON" mode.

Touch **OK** once you have read the message.



## Ejecting discs

### Ejecting a disc

**STEP 1** To select the disc to be ejected, touch the desired disc on the

screen or press  $\wedge$  or  $\vee$  on



**STEP 2** Press  and remove the disc.

### Ejecting all discs

Press and hold  until you hear a beep, and remove the discs.

## Selecting a disc

### To select a disc to play



Touch the desired disc on the

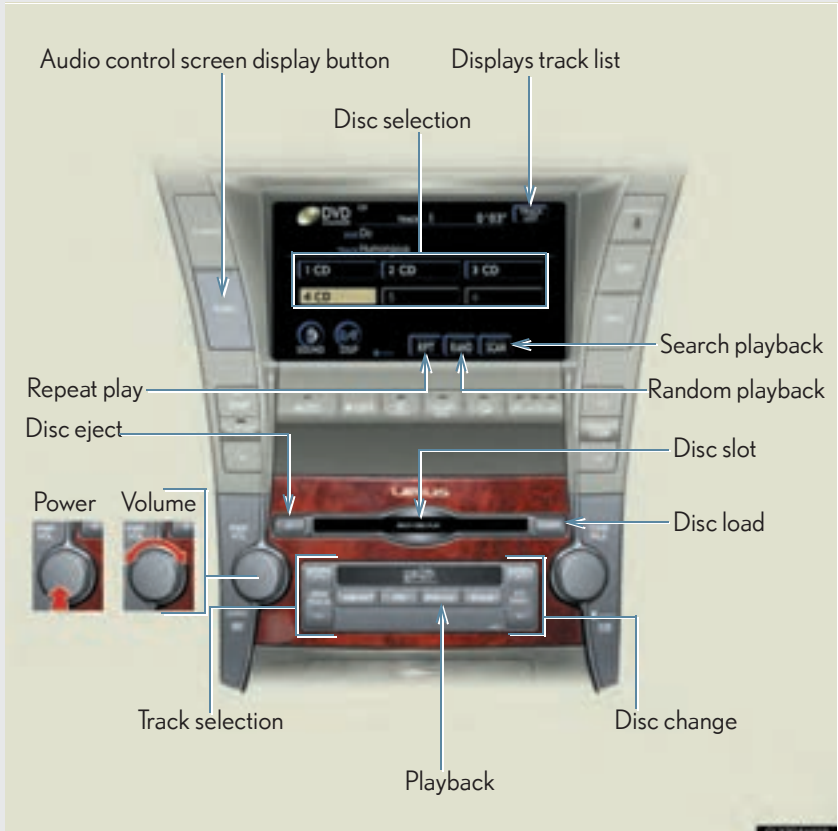
screen or press  $\wedge$  or  $\vee$  on



### 3-3. Using the audio system

## Playing an audio CD

Insert a disc or press **DISC** with a disc inserted.




## Loading and ejecting discs

→P. 301

## Selecting, fast forwarding and scanning tracks

### ■ Selecting a track

Press  $\wedge$  to move up and  $\vee$  to move down using  until the desired track number appears on the screen.

To fast forward or reverse, press and hold  $\wedge$  or  $\vee$  on .



### ■ Selecting a track from the track list

**STEP 1** Touch  on the screen.

**STEP 2**




Touch the desired track number.

 or : changes the list by 6 track groups

This function is available only when the vehicle is not moving.

### ■ Scanning a disc

**STEP 1** Touch  on the screen.

“SCAN” appears on the screen.

The first 10 seconds of each track will be played.

**STEP 2** Touch  once again when the desired track is reached.

## Selecting a disc

### ■ Selecting a disc to play

→P. 302

### ■ Scanning loaded discs

**STEP 1** Touch and hold **SCAN** on the screen until “D-SCAN” appears.

The first 10 seconds of the first track on each disc will be played.

**STEP 2** Touch **SCAN** once again when the desired disc is reached.

## Random playback

### ■ Current disc

Touch **RAND** on the screen.

Songs are played in random order.

### ■ All discs

Touch and hold **RAND** on the screen until “D-RAND” appears.

Tracks on all loaded discs are played in random order.

## Repeating a track or a disc

### ■ Repeating a track

Touch **RPT** on the screen.

### ■ Repeating a disc

Touch **RPT** on the screen and hold until “D-RPT” appears.

### ■ Canceling random, repeat and scan playback

Touch **RAND**, **RPT** or **SCAN** on the screen once again.

### ■ Displaying the title and artist name


If a CD-TEXT disc is inserted, the titles of the disc and track will be displayed. Up to 16 letters can be displayed.

### ■ Error messages

→P. 328

### 3-3. Using the audio system

## Playing MP3 and WMA discs

Insert an MP3 or WMA disc or press  with a disc inserted.



## Loading and ejecting MP3 and WMA discs



→P. 301

## Selecting MP3 and WMA discs

→P. 304

## Selecting a folder

### ■ Selecting a folder

Touch “FOLDER ” or “FOLDER ” on the screen to select the next/previous folder.



### ■ Selecting a folder from the folder list


**STEP 1** Touch  on the screen.

**STEP 2**



Touch the desired folder number.



 or :changes the list by 6 folder groups

:displays the details of the file currently playing

:displays the file list

This function is available only when the vehicle is not moving.

### ■ Selecting the desired folder by cueing the first file of each folder

Touch and hold  on the screen until “FLD·SCAN” appears. When the desired folder is reached, touch  once again.

## Selecting and scanning files

### ■ Selecting one file at a time

Turn  or press  $\wedge$  or  $\vee$  on  to select the desired file.

### ■ Selecting a file from the file list

**STEP 1** Touch **FOLDER LIST** on the screen to turn the folder list on.

**STEP 2**





Touch **FILE** on the folder list screen.

**STEP 3**



Touch the desired file number.

 or  : changes the list by 6 groups

**FOLDER** : displays the folder list

**DETAIL** : displays the details of the file currently playing

This function is available only when the vehicle is not moving.



#### ■ Selecting a desired file by cueing the files in the folder

Touch **SCAN** on the screen.

When the desired file is reached, touch **SCAN** once again.

#### Repeat play

#### ■ Repeating a file

Touch **RPT** on the screen.

#### ■ Repeating all of the files in a folder

Touch and hold **RPT** on the screen until “FLD RPT” appears.

#### Random playback

#### ■ Playing files from a particular folder in random order

Touch **RAND** on the screen.

#### ■ Playing all the files on a disc in random order

Touch and hold **RAND** on the screen until “FLD RAND” appears.

---

#### ■ Canceling random, repeat and scan playback

Touch **RAND**, **RPT** or **SCAN** on the screen once again.

#### ■ Error messages

→P.328

### 3-3. Using the audio system

## Playing DVD video/audio

For safety reasons, you can enjoy the visual contents of discs only when the vehicle is completely stopped with the “POWER” switch in “ACC” or “ON” mode and the parking brake applied. While you are driving, only audio contents may be played.

When a DVD video disc or DVD audio disc is inserted while driving, the audio contents of the main feature will automatically be played. However, some discs may not be played from the main story.

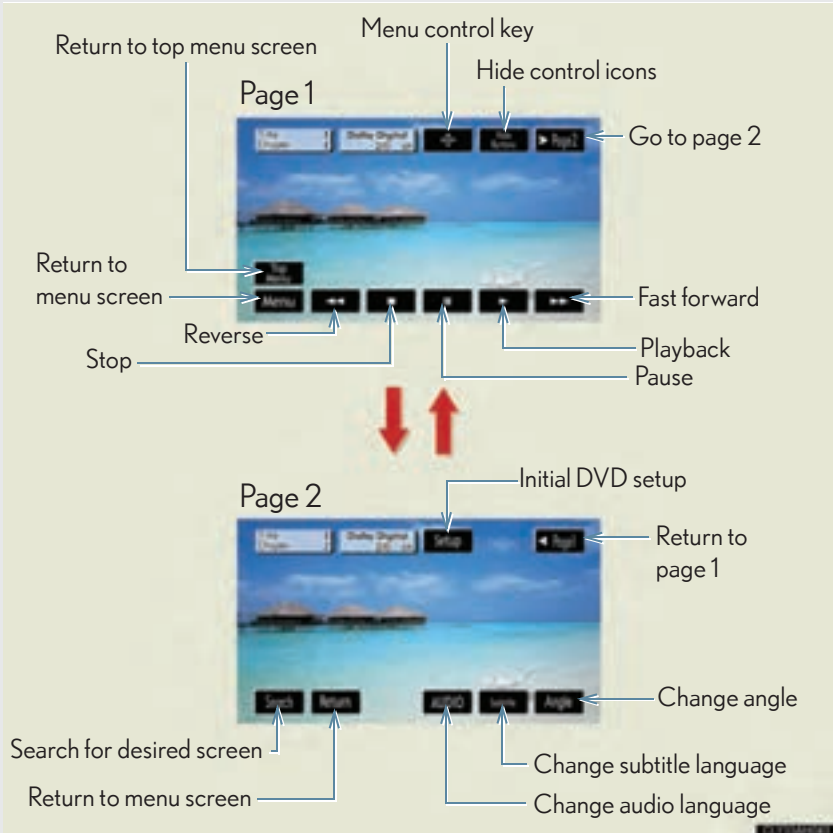
Insert a disc or press  with a disc inserted.




### ■ Control icon screen

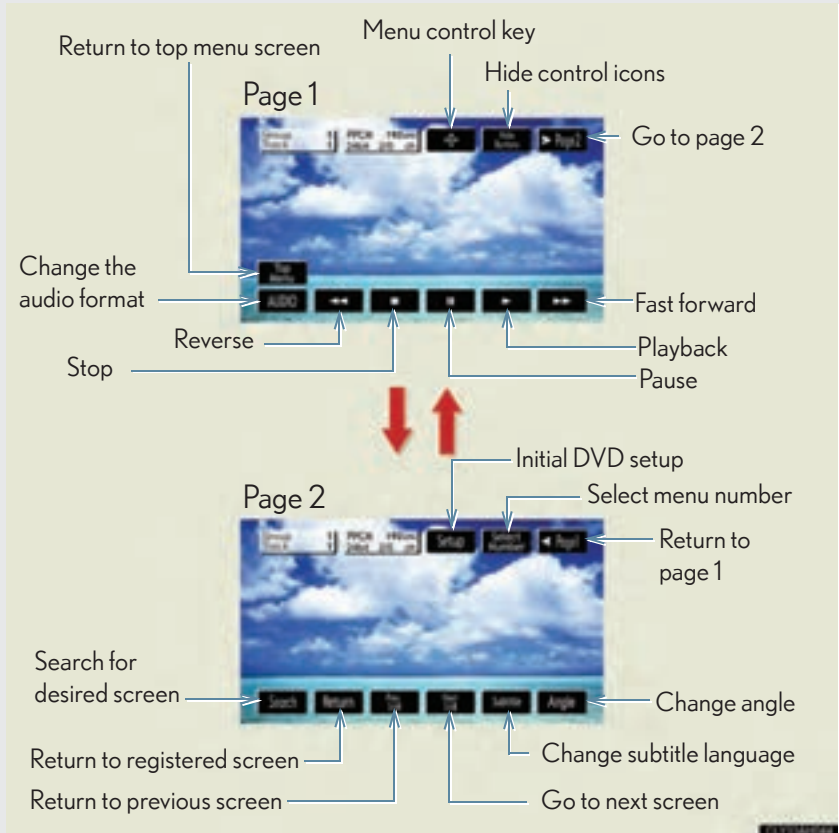
Touch any part of the screen if no icons are shown while watching a video, and the following screen appears.


#### ▶ DVD video mode



If  appears on the screen when you touch an icon, the operation relevant to that control is not permitted.

## ▶ DVD audio mode






If  appears on the screen when you touch an icon, the operation relevant to that control is not permitted.

#### Loading, ejecting and selecting discs

→P. 301

#### Fast forwarding/reversing a disc

Touch and hold  or  on the screen or press and hold  $\wedge$  or  $\vee$

on  until you hear a beep.

#### Slow playback

Touch  and then touch . Video is played slowly while you are touching .


#### Searching for a desired screen


##### ■ Searching by title (DVD video mode)



**STEP 1** Touch  on the control icon screen.


**STEP 2**



Input the desired title number and then touch .

: deletes the last input number

: hides the icons. To display the icons, touch .

: returns to the previous screen

### ■ Searching by group (DVD audio mode)

**STEP 1** Touch **Search** on the control icon screen.



Input the group number and then touch **Enter**.

**Clear**: deletes the last input number

**<< OFF**: hides the icons. To display the icons, touch **>> ON**.

**↩**: returns to the previous screen

### ■ Playing a bonus group (DVD audio mode only, if the DVD has bonus options)

**STEP 1** Touch **Search** on the control icon screen.



Input the desired bonus group number on the group search screen and touch **Enter**.


**<**: deletes the number

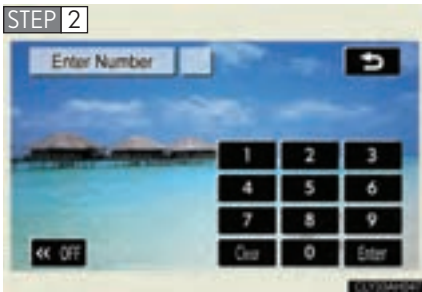
**↩**: returns to the previous screen


### ■ Searching by chapter/track

Press  $\wedge$  or  $\vee$  on  to select a chapter/track.



### ■ Selecting a menu number (DVD audio mode only)


**STEP 1** Touch  on the control icon screen.

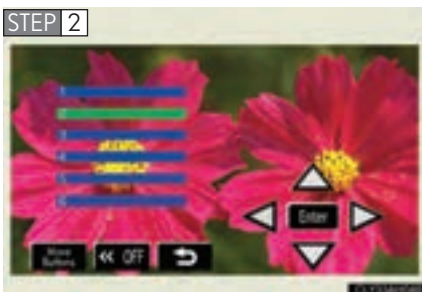



Input the desired menu number on the screen and touch .

### Using the DVD menu



**STEP 1** Touch  or  on the control icon screen.


Touch  if the menu control key does not appear on the menu screen.



Touch  $\blacktriangle$ ,  $\blacktriangledown$ ,  $\blacktriangleleft$  or  $\blacktriangleright$  to select a menu item, and touch  to select.

: moves icons up or down

: hides icons. To display icons, touch .

: returns to the previous screen

Note that specific items or the operating method differs from one DVD to another. Refer to the manual that comes with the DVD disc. (The above image is an example.)

### Changing the subtitle language



Touch **Subtitle** on the control icon screen.

Each time you touch the switch, the next available language is selected.

**Hide** : hides the subtitles

**↩** : returns to the previous screen

### Changing the audio language (DVD video only)

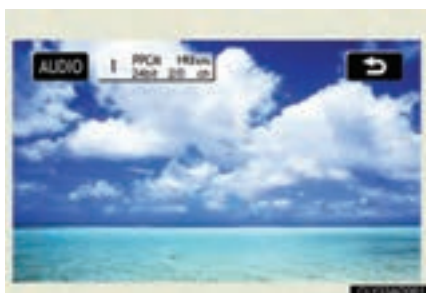


Touch **AUDIO** on the control icon screen.

Each time you touch the switch, the next available language is selected.

**↩** : returns to the previous screen

### Changing the audio format (DVD audio only)



Touch **AUDIO** on the control icon screen.

Each time you touch the switch, the next available audio format is selected.

**↩** : returns to the previous screen



## Changing the angle (if the angle option is available)

**STEP 1** Touch **Angle** on the control icon screen.

**STEP 2**



Touch **Angle**.

Each time you touch the switch, the next available angle is selected.

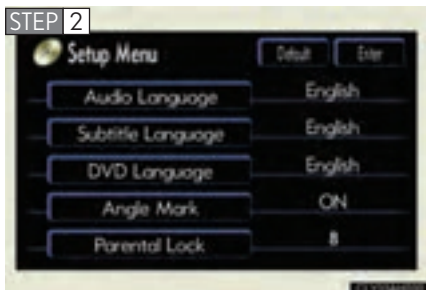
**↩**: returns to the previous screen

## Initial DVD setup

■ Displaying “Setup Menu” screen

**STEP 1** Touch **Setup** on the control icon screen.

**STEP 2**



After you change the initial settings, touch **Enter**.

**Default**: restores default settings

### ■ Setting audio language

**STEP 1** Touch **Audio Language** on the “Setup Menu” screen.

**STEP 2** Select the desired language.

If you cannot find the desired language, touch **Other** and input the desired language code. (→P. 321)

**↶**: returns to the previous screen

### ■ Setting subtitle language

**STEP 1** Touch **Subtitle Language** on the “Setup Menu” screen.

**STEP 2** Select the desired language.

If you cannot find the desired language, touch **Other** and input the desired language code. (→P. 321)

**↶**: returns to the previous screen

### ■ Setting menu language

**STEP 1** Touch **DVD Language** on the “Setup Menu” screen.

**STEP 2** Select the desired language.

If you cannot find the desired language, touch **Other** and input the desired language code. (→P. 321)

**↶**: returns to the previous screen

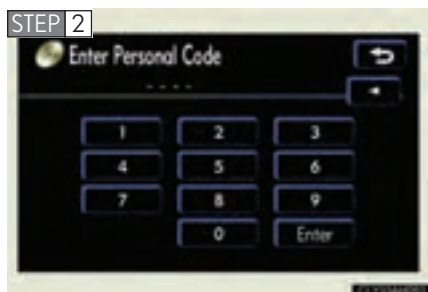
### ■ Setting angle mark “ON” or “OFF”

If the DVD has angle options, you can turn the angle mark on or off.

Touch **Angle Mark** on the “Setup Menu” screen. Each time you touch the switch, the multi angle mark on the screen turns on or off alternately.

## ■ Parental lock

**STEP 1** Touch **Parental Lock** on the “Setup Menu” screen.



Input the 4-digit personal code and then touch **Enter**.

If you enter wrong numbers, touch **←** to delete the numbers.

Touch **←** 10 times to delete the personal code.

**STEP 3** Select a parental level (1 - 8). (→P. 331)

**↩**: returns to the previous screen

## ■ Entering a language code

If you touch **Other** on the “Select Audio Language” screen, “Select Subtitle Language” screen or “Select DVD Language” screen, you can select a language by entering the 4-digit language code if that language is available.



Input the 4-digit language code and then touch **Enter**.

**←**: deletes the last input digit

**↩**: returns to the previous screen

## ● Language codes

Code	Language	Code	Language	Code	Language
0514	English	0207	Bulgarian	0712	Galician
0618	French	0208	Bihari	0714	Guarani
0405	German	0209	Bislama	0721	Gujarati
0920	Italian	0214	Bengali	0801	Hausa
0519	Spanish	0215	Tibetan	0809	Hindi
2608	Chinese	0218	Breton	0818	Croatian
1412	Dutch	0301	Catalan	0821	Hungarian
1620	Portuguese	0315	Corsican	0825	Armenian
1922	Swedish	0319	Czech	0901	Interlingua
1821	Russian	0325	Welsh	0905	Interlingue
1115	Korean	0401	Danish	0911	Inupiak
0512	Greek	0426	Bhutani	0914	Indonesian
0101	Afar	0515	Esperanto	0919	Icelandic
0102	Abkhazian	0520	Estonian	0923	Hebrew
0106	Afrikaans	0521	Basque	1001	Japanese
0113	Amharic	0601	Persian	1009	Yiddish
0118	Arabic	0609	Finnish	1023	Javanese
0119	Assamese	0610	Fiji	1101	Georgian
0125	Aymara	0615	Faroese	1111	Kazakh
0126	Azerbaijani	0625	Frisian	1112	Greenlandic
0201	Bashkir	0701	Irish	1113	Cambodian
0205	Byelorussian	0704	Scots-Gaelic	1114	Kannada

### 3-3. Using the audio system

Code	Language	Code	Language	Code	Language
1119	Kashmiri	1415	Norwegian	1914	Shona
1121	Kurdish	1503	Occitan	1915	Somali
1125	Kirghiz	1513	(Afan) Oromo	1917	Albanian
1201	Latin	1518	Oriya	1918	Serbian
1214	Lingala	1601	Panjabi	1919	Siswati
1215	Laothian	1612	Polish	1920	Sesotho
1220	Lithuanian	1619	Pashto, Pushto	1921	Sundanese
1222	Latvian	1721	Quechua	1923	Swahili
1307	Malagasy	1813	Rhaeto- Romance	2001	Tamil
1309	Maori	1814	Kirundi	2005	Telugu
1311	Macedonian	1815	Romanian	2007	Tajik
1312	Malayalam	1823	Kinyarwanda	2008	Thai
1314	Mongolian	1901	Sanskrit	2009	Tigrinya
1315	Moldavian	1904	Sindhi	2011	Turkmen
1318	Marathi	1907	Sangho	2012	Tagalog
1319	Malay	1908	Serbo- Croatian	2014	Setswana
1320	Maltese	1909	Sinhalese	2015	Tonga
1325	Burmese	1911	Slovak	2018	Turkish
1401	Nauru	1912	Slovenian	2019	Tsonga
1405	Nepali	1913	Samoan	2020	Tatar

Code	Language	Code	Language	Code	Language
2023	Twi	2209	Vietnamese	2515	Yoruba
2111	Ukrainian	2215	Volapük	2621	Zulu
2118	Urdu	2315	Wolof		
2126	Uzbek	2408	Xhosa		

### ■ Error messages

If “Region Code Error” is displayed, check if the region code printed on the DVD matches the player's region code.

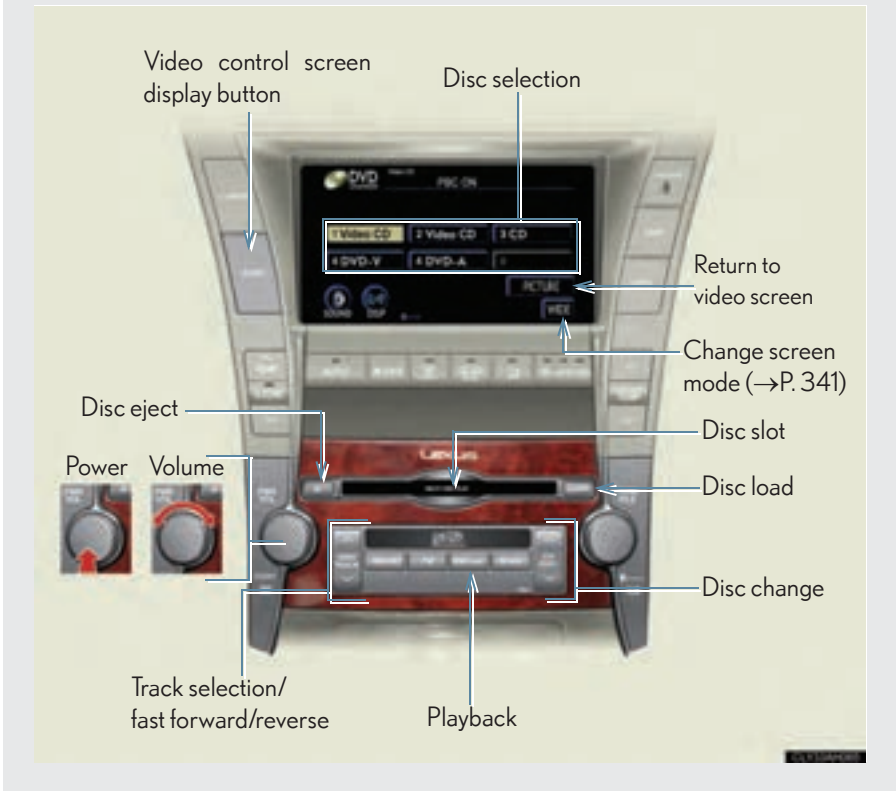
If a different message is displayed: →P. 328

### 3-3. Using the audio system

## Playing a video CD

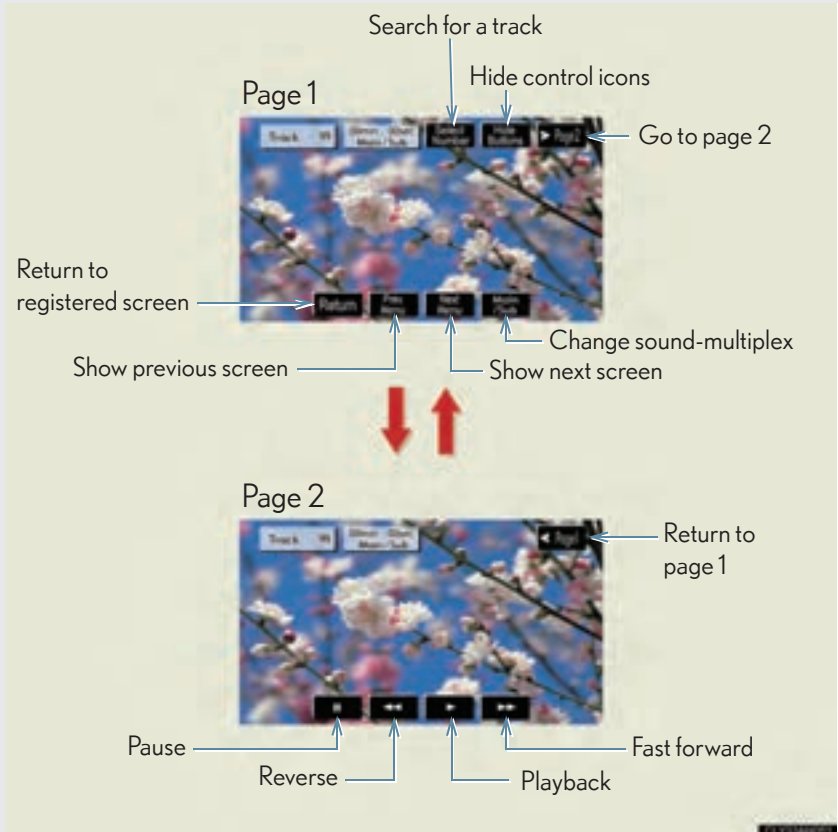
For safety reasons, you can enjoy the visual contents of discs only when the vehicle is completely stopped with the “POWER” switch in “ACC” or “ON” mode and the parking brake applied. While you are driving, only audio contents may be played.


Insert a disc or press  with a disc inserted.



### ■ Control icon screen

Touch any part of the screen if no icons are shown while watching a video CD, and the following screen appears.



If  appears on the screen when you touch an icon, the operation relevant to that control is not permitted.



#### Loading, ejecting and selecting discs




→P. 301

#### Fast forwarding/reversing a video CD

Touch and hold  or  on the control icon screen or press and

hold  or  on  until you hear a beep.

#### Slow playback

Touch  and then touch  on the control icon screen. Video is played slowly while you are touching .


#### Using the video CD menu

Touch  on the control icon screen.

Refer to the manual that comes with the video CD for specific menu items.

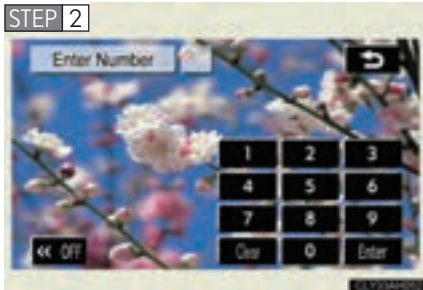
## Selecting a desired screen

### ■ Searching manually

Touch **Prev Menu** or **Next Menu** on the screen, or press  $\wedge$  or  $\vee$  on  until the desired screen appears.

### ■ Searching by number

**STEP 1** Touch **Select Number** on the control icon screen.



Input the desired track number on the screen and touch **Enter**.

**Clear**: deletes the last input number

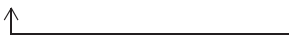
**<< OFF**: hides icons. To display icons, touch **>> ON**.

**↶**: returns to the previous screen

## Changing the sound-multiplex mode

Touch **Main/Sub** on the control icon screen. The mode cycles through each time the switch is touched.

“Main” → “Sub” → “Main/Sub”



### ■ Error messages

→P.328

### 3-3. Using the audio system

## DVD player and DVD video disc information

### ■ Error messages







Refer to the following table and take the appropriate measures. If the problem is not rectified, take the vehicle to your Lexus dealer.

Message	Cause	Correction Procedures
No disc	There is no disc in the DVD changer.	Insert a disc.
Check DISC X	<ul style="list-style-type: none"><li>• The disc X is dirty or damaged.</li><li>• The disc X is inserted upside down.</li><li>• The disc X is not playable with the player.</li></ul>	<ul style="list-style-type: none"><li>• Clean the disc .</li><li>• Insert the disc correctly.</li><li>• Confirm the disc is playable with the player.</li></ul>
DVD error	<ul style="list-style-type: none"><li>• There is a malfunction within the system.</li><li>• Operation is stopped due to a high temperature inside the player.</li></ul>	<ul style="list-style-type: none"><li>• Eject the disc.</li><li>• Eject the disc and allow the player to cool down.</li></ul>
NO MUSIC FILE	This indicates that no playable data is included in the disc.	Eject the disc.

### ■ DVD video discs

- The DVD player conforms to NTSC color TV formats.
- Region code: Some DVD video discs have a region code indicating the region in which you can use the DVD video disc. If the DVD video disc is not labeled as "ALL" or "1", you cannot use it on this DVD player. If you attempt to play an inappropriate DVD video disc on this player, "Region Code Error" appears on the screen. Even if the DVD video disc does not have a region code, you may not be able to use it.
- The DVD player supports multi-channel sound is output.

### ■ Symbols shown on DVD video discs

Symbol	Meaning
	Indicates NTSC format
	Indicates the number of audio tracks
	Indicates the number of language subtitles
	Indicates the number of angles
	Indicates the screen display ratios available Wide screen: 16:9 Standard: 4:3
	Indicates the disc's region code ALL: in all countries Number: region code

#### ■ Discs that can be used

Discs with the marks shown below can be used.

Playback may not be possible depending on recording format or disc features, or due to scratches, dirt or deterioration.



#### ■ DVD player protection feature

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

#### ■ If discs are left inside the DVD player or in the ejected position for extended periods

Discs may be damaged and may not play properly.

#### ■ Lens cleaners

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

#### ■ DVD video disc information

##### ● DVD video discs

A DVD video disc is a Digital Versatile Disc that holds video. DVD video discs have adopted “MPEG2”, one of the world standards of digital compression technologies. The picture data is compressed by 1/40 on average and stored. Variable rate encoded technology in which the volume of data assigned to the picture is changed depending on the picture format has also been adopted. Audio data is stored using PCM and Dolby digital, which enables higher quality of sound. Furthermore, multi-angle and multi-language features will also help you enjoy the more advanced technology of DVD video.

- Viewer restrictions

This feature limits what can be viewed in conformity with the level of restrictions of the country. The level of restrictions varies depending on the DVD video disc. Some DVD video discs cannot be played at all, or violent scenes are skipped or replaced with other scenes.

Level 1: DVD video discs for children can be played.

Level 2-7: DVD video discs for children and G-rated movies can be played.

Level 8: All types of DVD video discs can be played.

- Multi-angle option

You can enjoy the same scene from different angles.

- Multi-language option

You can select the subtitle and audio languages.

- Region codes

The region codes are provided on DVD players and DVD discs. If the DVD video disc does not have the same region code as the DVD player, you cannot play the disc on the DVD player. (→P. 328)

- Audio

This DVD player can play linear PCM, Dolby Digital and MPEG audio format DVDs. Other decoded types cannot be played.

- Title and chapter

Video and audio programs stored in DVD video discs are divided into parts by title and chapter.

Title: The largest unit of the video and audio programs stored on DVD video discs. Usually, one movie, one album, or one audio program is assigned as a title.

Chapter: A title is comprised of one or more chapters.

### ■ Sound

#### ● Dolby Digital

Manufactured under license from Dolby Laboratories

“Dolby”, “Pro Logic”, and the double-D symbol are trademarks of Dolby Laboratories. Confidential unpublished works.

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This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation.

Reverse engineering or disassembly is prohibited.

#### ● DTS

“DTS” and “DTS Digital Surround” are registered trademarks of Digital Theater System, Inc.

### ■ MP3 and WMA files

MP3 (MPEG Audio LAYER 3) is a standard audio compression format.

Files can be compressed to approximately 1/10 of their original size by using MP3 compression.

WMA (Windows Media <sup>TM</sup>Audio) is a Microsoft audio compression format.

This format compresses audio data to a size smaller than that of the MP3 format.

There is a limit to the MP3 and WMA file standards that can be used and to the media/formats on which the files are recorded.

#### ● MP3 file compatibility

- Compatible standards

MP3 (MPEG1 LAYER3, MPEG2 LSF LAYER3)

- Compatible sampling frequencies

MPEG1 LAYER3: 32, 44.1, 48 (kHz)

MPEG2 LSF LAYER3: 16, 22.05, 24 (kHz)

- Compatible bit rates (compatible with VBR)

MPEG1 LAYER3: 64, 80, 96, 112, 128, 160, 192, 224, 256, 320 (kbps)

MPEG2 LSF LAYER3: 64, 80, 96, 112, 128, 144, 160 (kbps)

- Compatible channel modes: stereo, joint stereo, dual channel and monaural

- WMA file compatibility

- Compatible standards  
WMA Ver. 7, 8, 9
- Compatible sampling frequencies  
32, 44.1, 48 (kHz)
- Compatible bit rates (only compatible with 2-channel playback)  
Ver. 7, 8: CBR 48, 64, 80, 96, 128, 160, 192 (kbps)  
Ver. 9: CBR 48, 64, 80, 96, 128, 160, 192, 256, 320 (kbps)

- Compatible media

Media that can be used for MP3 and WMA playback are CD-Rs and CD-RWs. Playback in some instances may not be possible if the CD-R or CD-RW is not finalized. Playback may not be possible or the audio may jump if the disc is scratched or marked with fingerprints.

- Compatible disc formats

The following disc formats can be used:

- Disc formats: CD-ROM Mode 1 and Mode 2  
CD-ROM XA Mode 2, Form 1 and Form 2
- File formats: ISO9660 Level 1, Level 2, (Romeo, Joliet)  
MP3 and WMA files written in any format other than those listed above may not play correctly, and their file names and folder names may not be displayed correctly.

Items related to standards and limitations are as follows:

- Maximum directory hierarchy: 8 levels (including the root)
- Maximum length of folder names/file names: 32 characters
- Maximum number of folders: 192 (including the root)
- Maximum number of files per disc: 255

- File names

The only files that can be recognized as MP3/WMA and played are those with the extension .mp3 or .wma.

- Discs containing multi-session recordings

As the audio system is compatible with multi-sessions, it is possible to play discs that contain MP3 and WMA files. However, only the first session can be played.



#### ● ID3 and WMA tags

ID3 tags can be added to MP3 files, making it possible to record the track title, artist name, etc.

The system is compatible with ID3 Ver. 1.0, 1.1, and Ver. 2.2, 2.3 ID3 tags. (The number of characters is based on ID3 Ver. 1.0 and 1.1.)

WMA tags can be added to WMA files, making it possible to record the track title and artist name in the same way as with ID3 tags.

#### ● MP3 and WMA playback

When a disc containing MP3 or WMA files is inserted, all files on the disc are first checked. Once the file check is finished, the first MP3 or WMA file is played. To make the file check finish more quickly, we recommend you do not write in any files other than MP3 or WMA files or create any unnecessary folders.


Discs that contain a mixture of music data and MP3 or WMA format data cannot be played.

#### ● Extensions

If the file extensions .mp3 and .wma are used for files other than MP3 and WMA files, they may be mistakenly recognized and played as MP3 and WMA files. This may result in large amounts of interference and damage to the speakers.

#### ● Playback

- To play MP3 files with steady sound quality, we recommend a fixed bit rate of at least 128 kbps and a sampling frequency of 44.1 kHz.
- CD-R or CD-RW playback may not be possible in some instances, depending on the characteristics of the disc.
- There is a wide variety of freeware and other encoding software for MP3 and WMA files on the market, and depending on the status of the encoding and the file format, poor sound quality or noise at the start of playback may result. In some cases, playback may not be possible at all.
- When files other than MP3 or WMA files are recorded on a disc, it may take more time to recognize the disc and in some cases, playback may not be possible at all.
- Microsoft, Windows, and Windows Media are the registered trademarks of Microsoft Corporation in the U.S. and other countries.

 **CAUTION****■ DVD video precaution**

Conversational speech on some DVDs is recorded at a low volume to emphasize the impact of sound effects. If you adjust the volume assuming that the conversations represent the maximum volume level that the DVD will play, you may be startled by louder sound effects or startled when you change to a different audio source.

Loud sounds may have a significant impact on the human body or pose a driving hazard. Keep this in mind when you adjust the volume.

 NOTICE

■ Discs and adapters that cannot be used

Do not use the following types of discs, 3 in. (8 cm) disc adapters or Dual Discs. Doing so may damage the player and/or disc insert/eject function.



- Discs that have a diameter that is not 4.7 in. (12 cm)



- Low-quality or deformed discs



- Discs with a transparent or translucent recording area



- Discs that have tape, stickers or CD-R labels attached to them, or that have had the label peeled off

 NOTICE**■ Player precautions**

Failure to follow the precautions below may result in damage to the discs or the player itself.


- Do not insert anything other than discs into the disc slot.
- Do not apply oil to the player.
- Store discs away from direct sunlight.
- Never try to disassemble any part of the player.



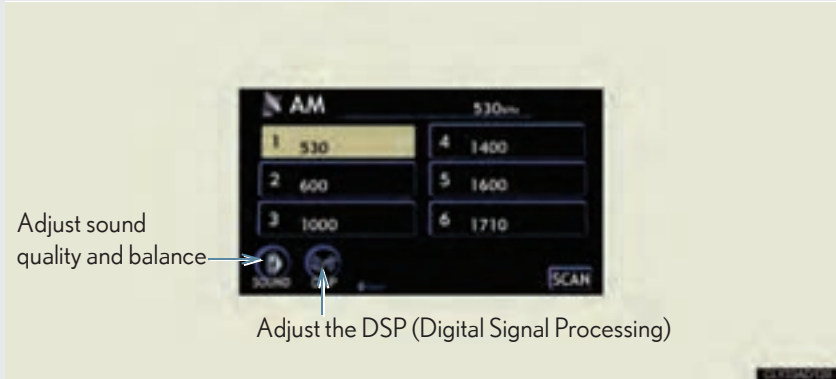
- Do not insert more than one disc at a time.

### 3-3. Using the audio system

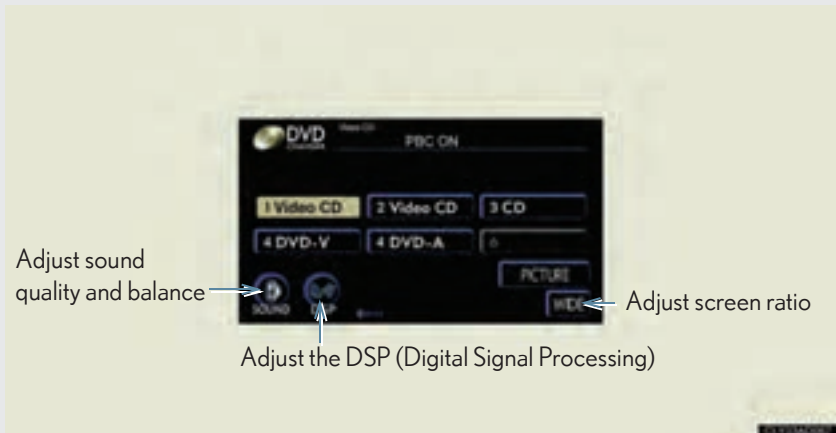
## Optimal use of the audio/video system

Press  to display the audio/video control screen.

#### ▶ Operating the radio and audio CD



#### ▶ Operating the DVD video/audio and video CD



## Adjusting sound quality and balance

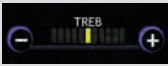


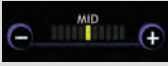
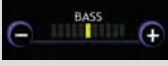
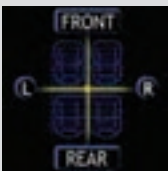




**STEP 1** Touch  on the screen.



Adjust the settings, referring to the following table.

Once you have finished, touch


.

Sound quality mode	Display	Level	Touch
High-pitched tones*		-5 to 5	 or 
Mid-pitched tones*		-5 to 5	
Low-pitched tones*		-5 to 5	
Front/rear volume balance		F7 to R7	 or 
Left/right volume balance		L7 to R7	 or 

\*: The sound quality level is adjusted individually in each radio, CD or DVD mode.

## Setting DSP (Digital Signal Processing)



The following features can be set as desired by touching  on the screen:

### ■ Turning Automatic Sound Levelizer (ASL) “ON” or “OFF”

Touch  or .

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

### ■ Turning the surround “ON” or “OFF”

Touch  or .

## Setting the screen ratio mode

**STEP 1** Touch **WIDE** on the screen.



Touch one of **NORMAL**, **WIDE1** or **WIDE2** to match the screen ratio printed on the DVD.

Screen ratio mode	Details
"NORMAL"	Suitable for 4:3 screen ratio
"WIDE1"	Expands the normal screen horizontally to fill the display
"WIDE2"	Suitable for 16:9 screen ratio



### 3-3. Using the audio system

## Using the AUX adapter

This adapter can be used to connect a portable audio device and listen to it through the vehicle's speakers.

**STEP 1**



Connect the portable audio device.

**STEP 2** Press  .

#### ■ Operating portable audio devices connected to the audio system

The volume can be adjusted using the vehicle's audio controls. All other adjustments must be made on the portable audio device itself.

#### ■ When using a portable audio device connected to the power outlet

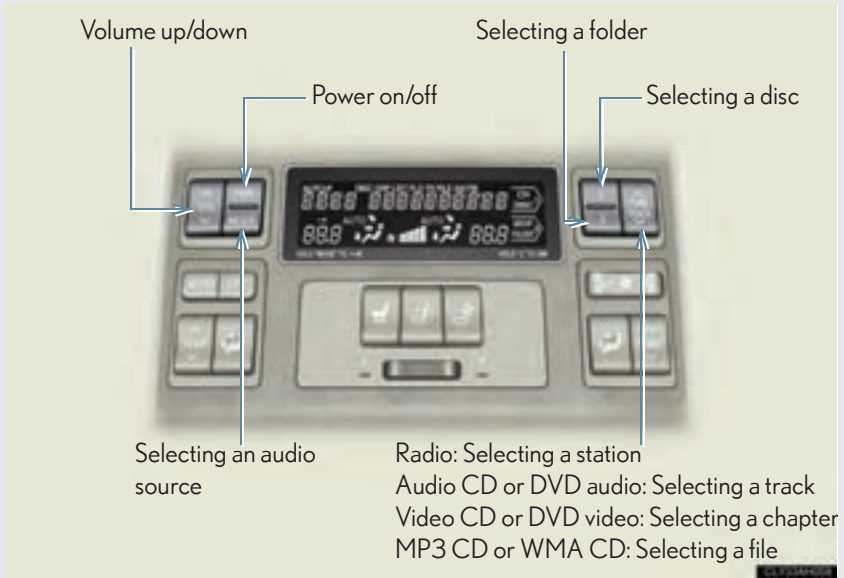
Noise may occur during playback. Use the power source of the portable audio device.

### 3-3. Using the audio system

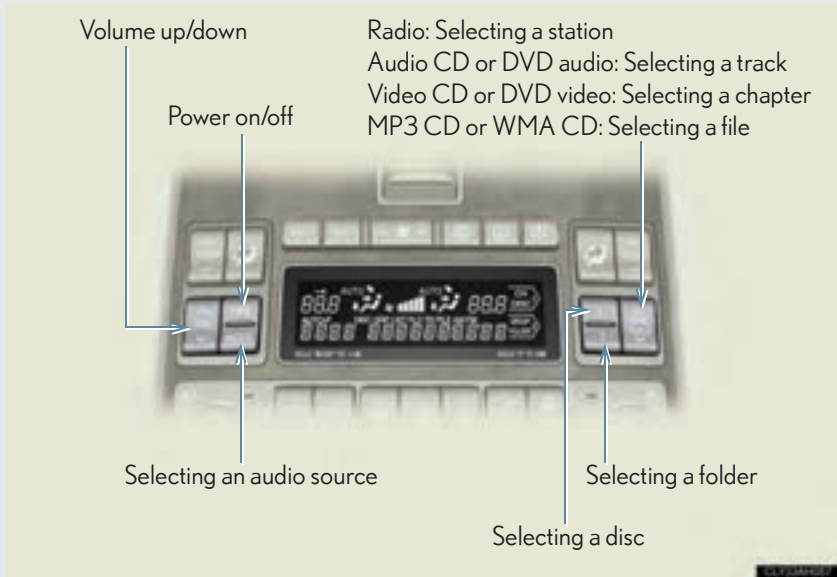
## Using the rear seat audio controls (if equipped)

Some front audio features can be controlled from the rear seats.

#### ► 5-seat models



► 4-seat models




### Turning the power

Press  to turn the front audio system on.

Pressing the button again turns the system off.

### Changing the audio source

Press  to change the audio source. The audio source changes as follows each time the button is pressed. If a CD or DVD is not inserted, that mode will be skipped.

AM → FM1 → FM2 → DVD changer → AUX



### Adjusting the volume

Press  $\wedge$  on  to increase the volume and  $\vee$  to decrease the volume.

Press and hold the button to continue increasing or decreasing the volume.




### Selecting a radio station

**STEP 1** Press  to select a frequency band.





**STEP 2** Press  $\wedge$  or  $\vee$  on  to select a radio station.

To scan for receivable stations, press and hold the button until you hear a beep.

#### Selecting a track (audio CD or DVD audio) or chapter (video CD or DVD video)

- STEP 1** Press  to select the DVD changer.
- STEP 2** Press  (DISC) to select a disc.
- STEP 3** Press  $\wedge$  or  $\vee$  on  to select a track or chapter.

#### Selecting a file (MP3 CD or WMA CD)

- STEP 1** Press  to select the DVD changer.
- STEP 2** Press  (DISC) to select a disc.
- STEP 3** Press  (FOLDER) to select a folder.
- STEP 4** Press  $\wedge$  or  $\vee$  on  to select a file.

#### ■ Button lock function

To prevent inadvertent operation, some buttons on the rear armrest can be locked. (→P. 287)

#### ■ Rear control panel illumination off function

Control panel illumination on the rear armrest can be turned off. (→P. 288)

#### ■ When “ERROR”, “WAIT” or “NO MUSIC” is shown on the display

Refer to the following and take the appropriate measures. If the problem is not rectified, take the vehicle to your Lexus dealer.

“ERROR”: This indicates a trouble either in the disc or inside the player. The disc may be dirty, damaged, or inserted up-side down.

“WAIT”: Operation is stopped due to a high temperature inside the player. Eject the disc and allow the player to cool down.

“NO MUSIC”: This indicates that an MP3/WMA file is not included in the disc.


## Using the steering wheel audio switches

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




- 1 Turns the power on, selects audio source
- 2 Volume
- 3 Radio mode: Selects radio stations  
CD mode: Selects tracks, files (MP3 and WMA) and discs  
DVD mode: Selects tracks, chapters and discs

### Turning on the power

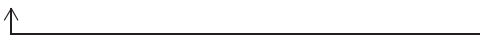
Press  when the audio system is turned off.

The audio system can be turned off by holding the switch down for 1 second or more.



### Changing the audio source

Press  when the audio system is turned on. The audio source changes as follows each time the switch is pressed. If no discs are inserted in the changer, that mode will be skipped.

FM1→FM2→DVD changer→AUX→AM



#### Adjusting the volume

Pull  to increase the volume and  to decrease the volume.

Hold up the switch to continue increasing or decreasing the volume.

#### Selecting a radio station


**STEP 1** Press  to select the radio mode.

**STEP 2** Press  $\wedge$  or  $\vee$  on  to select a radio station.

To scan for receivable stations, press and hold  $\wedge$  or  $\vee$  on the switch until you hear a beep.

#### Selecting a track/file or chapter

**STEP 1** Press  to select the CD or DVD mode.

**STEP 2** Press  $\wedge$  or  $\vee$  on  to select the desired track/file or chapter.

#### Selecting a disc in the DVD player

**STEP 1** Press  to select the CD or DVD mode.

**STEP 2** Press and hold  $\wedge$  or  $\vee$  on  until a beep is heard.

#### ■ Canceling automatic selection of a radio station

Press the same switch.

#### CAUTION

##### ■ To reduce the risk of an accident

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