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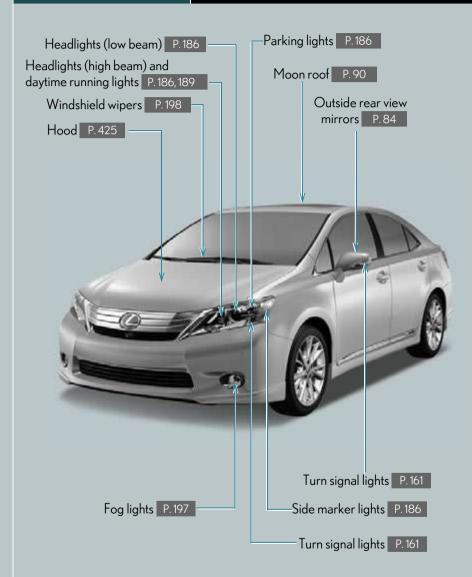
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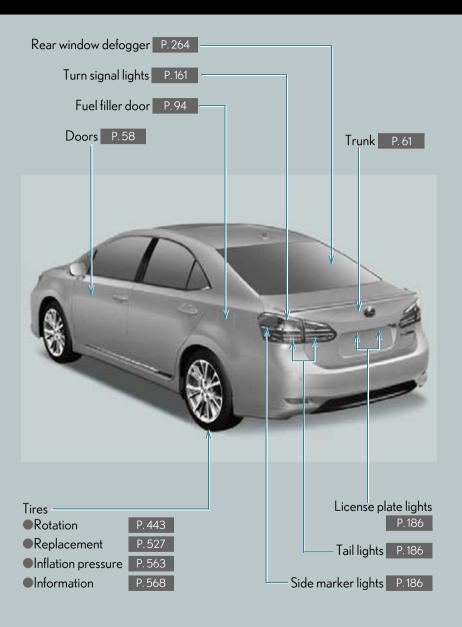
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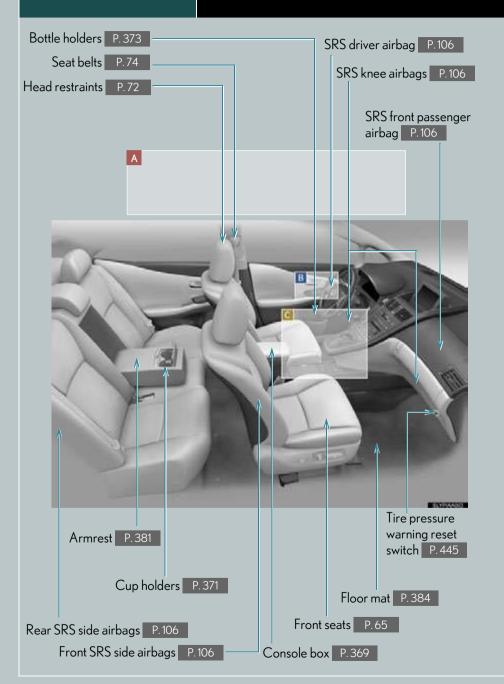
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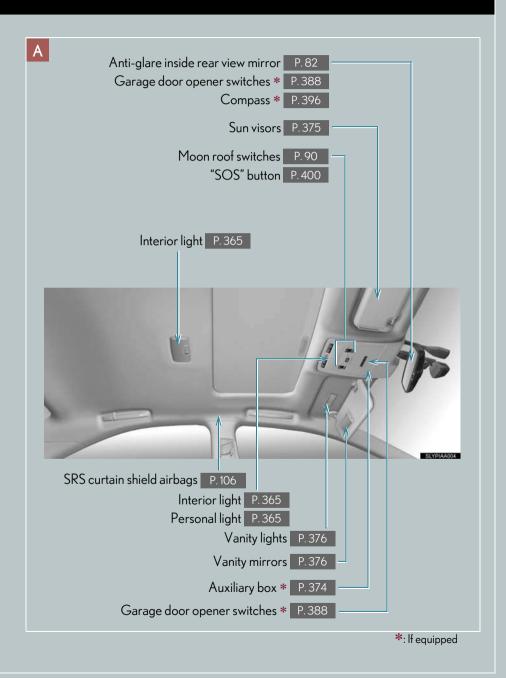




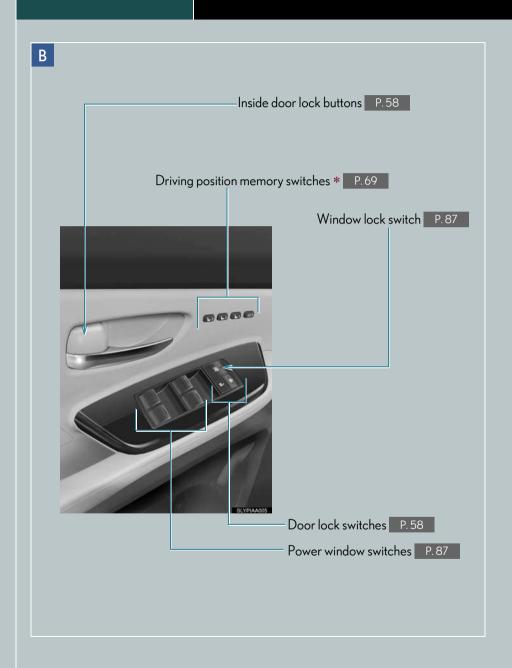
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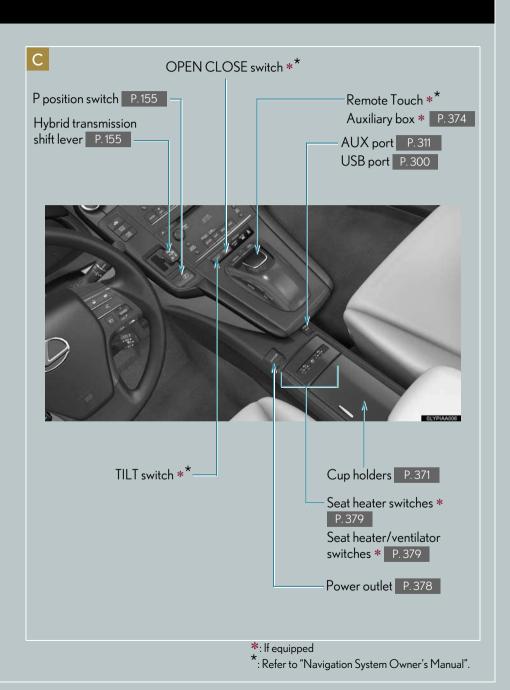
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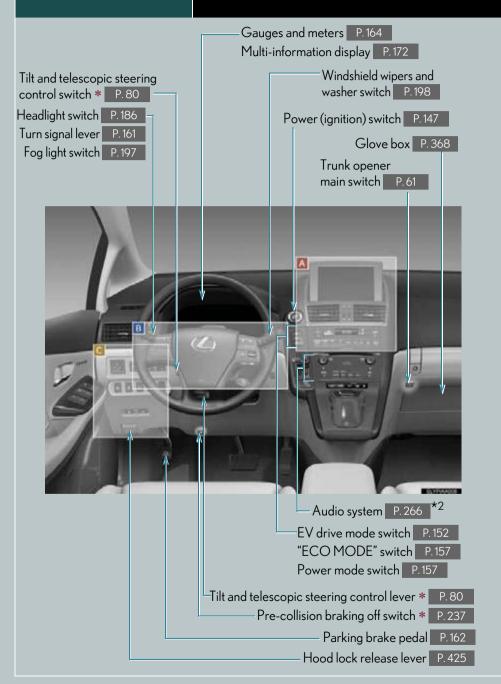
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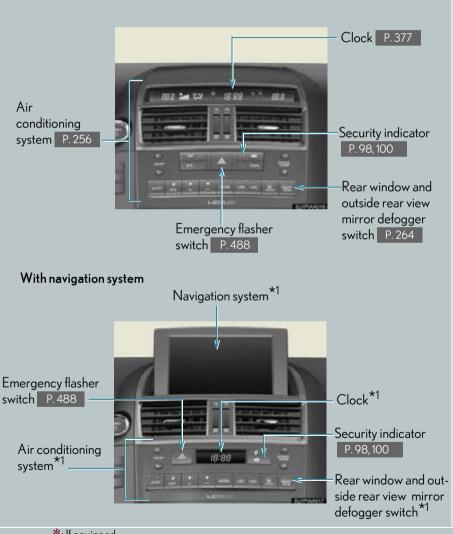
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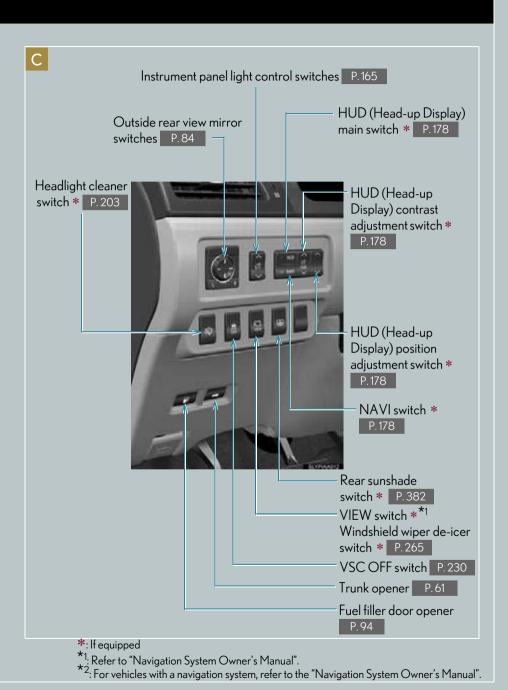
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\*: If equipped
\*1. Refer to "Navigation System Owner's Manual".
\*2: For vehicles with a navigation system, refer to the "Navigation System Owner's Manual".

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### 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 illustrations may differ from your vehicle in terms of color and equipment.

### Noise from under vehicle 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 the sound of a fuel evaporation leakage check and, it does not indicate a malfunction.

### 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.

Unwanted noise may occur in the reception of the mobile two-way radio.

### Scrapping of your Lexus

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

### Perchlorate Material

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

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

### **A** 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 could result in death or serious injury.

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.

### ■ Disposal 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 that your vehicle must be disposed of, the hybrid battery must be disposed of by your Lexus dealer or a qualified service shop. If the hybrid battery is not disposed of properly, it may cause electric shock that can result in death or serious injury.

## Symbols used throughout this manual

### Cautions & Notices



### **A** CAUTION

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

### Symbols used in illustrations



### Safety symbol

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





### Arrows indicating operations

- Indicates the action (pushing, turning, etc.) used to operate switches and other devices.
- Indicates the outcome of an operation (e.g. a lid opens).

## Before driving

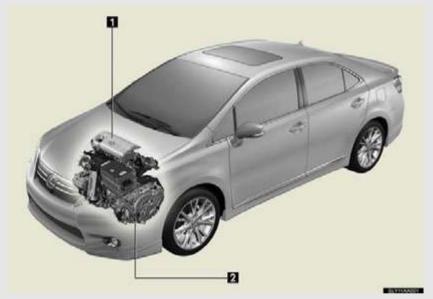
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# 1-1. Hybrid system Hybrid system

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 the use of a gasoline engine and an electric motor (traction motor) according to driving conditions, improving fuel efficiency and reducing exhaust emissions.



- Gasoline engine
- Electric motor (Traction motor)
- When stopped/during start off

The gasoline engine stops\* when the vehicle is stopped. During start 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.

When shift position N is selected, the hybrid battery (traction battery) will not be charged. Thus, select P when the vehicle is stopped. In addition, when driving in heavy traffic, use D or B.

\*: However, when the hybrid battery (traction battery) need to be charged or while the engine is being warmed up, the gasoline engine may not stop automatically.

### 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 to that of the gasoline engine via the electric motor (traction motor).

### ■ When braking (regenerative braking)

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

### ■ Regenerative braking

In the following situations, kinetic energy is converted to electric energy and deceleration force can be obtained in conjunction with the recharging of the hybrid battery (traction battery).

- The accelerator pedal is released while driving with shift position D or B selected.
- The brake pedal is depressed while driving with shift position D or B selected.

### ■ 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:

- During gasoline engine warm-up
- During hybrid battery (traction battery) charging
- When the temperature of the hybrid battery (traction battery) is high or low
- When the heater is switched on.

### ■ 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.

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

The gasoline engine may not stop even if the vehicle is running on the hybrid battery (traction battery). If this continues for 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 change the shift position to P, and apply the parking brake when parked.

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

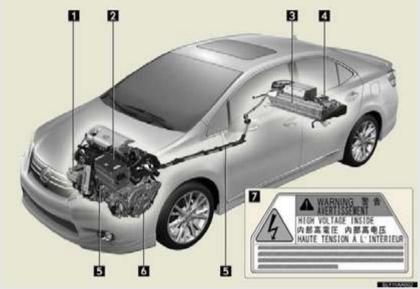
- Motor sounds may be heard from the engine compartment.
- Sounds may be heard from the hybrid battery (traction battery) behind the rear seats when the hybrid system starts or stops.
- Sounds from the hybrid system may be heard when the trunk lid is open.
- Sounds may be heard from the transaxle when the engine is started or stopped, or while the engine is idling.
- Engine sounds may be heard when accelerating sharply.
- Sounds may be heard due to regenerative braking when the brake pedal is depressed and accelerator is loosened.
- Other sounds, such as motors and mechanical noises, may be heard from the brake system when the brake pedal is depressed.
- Vibration may be felt when the gasoline engine starts or stops.
- Cooling fan sounds may be heard from the air intake vent on the side of rear left seatback.
  - When driving in Eco drive mode, the fan noise may be louder than when driving normally.

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

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

## **Hybrid system precautions**

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.



- 11 Air conditioning compressor
- 2 Power control unit
- B Hybrid battery (traction battery) and DC/DC converter
- 4 Service plug

- High voltage cables (orange)
- 6 Electric motor (traction motor)
- **7** Caution label

### Hybrid battery air vent



There is an air intake vent on the side of the rear left seatback for the purpose of cooling the hybrid battery (traction battery). If the vent become blocked, the hybrid battery may overheat, leading to a reduction in hybrid battery output.

### Emergency shut off system

When a certain level of impact is detected by the impact sensor, 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. If the emergency shut off system activates, your vehicle will not restart. To restart the hybrid system, contact your Lexus dealer.

### 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.  $(\rightarrow P. 507)$ 

## ■ If a warning light comes on, 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.

### ■ Electromagnetic waves

- High voltage parts and cables on the hybrid vehicles incorporate electromagnetic shielding, and therefore emit approximately the same amount of electromagnetic waves as conventional gasoline powered vehicles or home electronic appliances.
- Your vehicle may cause sound interference in some third party-produced radio parts.

### ■ 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  $(\rightarrow P. 501)$  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 2.6 gal. [10 L, 2.1 Imp.gal.], when the vehicle is on a level surface. This value may vary when the vehicle is on a slope.)

### ■ Hybrid battery (traction battery)

The hybrid battery (traction battery) has a limited service life. The lifespan of the hybrid battery (traction battery) can change in accordance with driving style and driving conditions.

### **A** 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 or 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.

#### ■ Road accident cautions

Observe the following precautions to reduce the risk of death or serious injury:

- Pull your vehicle off the road, change the shift position to 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 the fluid 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.

### **CAUTION**

- If your vehicle needs to be towed, do so with front wheels raised. If the wheels connected to 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.  $(\rightarrow P.489)$
- 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.

### ■ 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.  $(\rightarrow P. 28)$ 

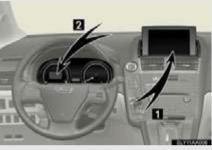
### ∧ NOTICE

### Hybrid battery air vent

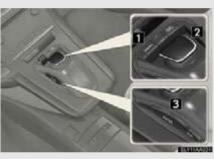
- Do not put foreign objects near the air vent. The hybrid battery (traction battery) may overheat and be damaged.
- Clean the air vent regularly to prevent the hybrid battery (traction battery) from overheating.
- Do not wet or allow foreign substances to enter the air vent as this may cause a short 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 onto the hybrid battery (traction battery), the battery may be damaged. Have the vehicle inspected by your Lexus dealer.

## **Energy monitor/consumption screen**

You can view the status of your hybrid system on the multi-information display and the navigation system screen.



- Navigation system screen (if equipped)
- Multi-information display



Remote Touch\*

- "MENU" button
- Remote Touch knob
- "ENTER" button
  - \*:For use of the Remote Touch, refer to "Navigation System Owner's Manual".

## **Energy monitor**

### Navigation system (if equipped)



Press the "MENU" button on the Remote Touch.

### 1-1. Hybrid system



Select Info

on the Start screen

and press the "ENTER" button on the Remote Touch.



Select



and press the

"ENTER" button on the Remote Touch.

If the **Consumption** or **Past Record** screen is displayed, select **Emay** and press the "ENTER" button on the Remote Touch.

## Multi-information display



Toggle the "ENTER" switch on the steering wheel upward or downward through several items to select the energy monitor display.

	Navigatic	on screen		ormation olay
When the vehicle is powered by the electric motor (traction motor)	Energy Monitor			
When the vehicle is powered by both the gasoline engine and the electric motor (traction motor)	Energy Monitor		<b>⊗</b> <sup>4</sup> '''	
When the vehicle is powered by the gasoline engine	Energy Monitor		<b>⊗</b> z⊀	
When the vehicle is charging the hybrid	Energy Monitor		₩	<u>`</u>
battery (traction battery)	Energy Monitor		● *	
When there is no energy flow	Energy Monitor		⊕ *	
Hybrid battery (traction battery) status	Low	Full	Low	Full

These images are examples only, and may vary slightly from actual conditions.

### Consumption (vehicles with a navigation system)

STEP 1 Press the "MENU" button on the Remote Touch and select



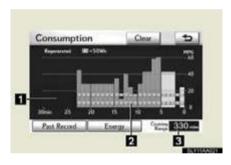
STEP 2 Select



and press the "ENTER" button on the Remote

Touch.

If the **Consumption** screen does not appear, select **Consumption** and press the "ENTER" button on the Remote Touch.



- Fuel consumption in the past 30 minutes
- Regenerated energy in the past 30 minutes
  - One symbol indicates 50 Wh. Up to 4 symbols are shown.
- $\blacksquare$  Cruising range ( $\rightarrow$ P. 37)

# Past record (vehicles with a navigation system)

STEP 1 Press the "MENU" button on the Remote Touch and select



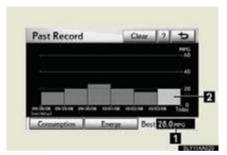
STEP 2 Select



and press the "ENTER" button on the Remote

Touch.

If the **Past Record** screen does not appear, select **Past Record** and press the "ENTER" button on the Remote Touch.



- 11 Best past fuel consumption
- 2 Average fuel consumption

Displays the average fuel consumption between each reset of the total average fuel consumption on the multi-information display.

When resetting, if the total average fuel consumption is better than the best past fuel consumption, the best past fuel consumption will be updated.

These images are examples only, and may vary slightly from actual conditions.

# ■ Resetting the consumption data

Selecting on the Consumption screen will reset the average fuel consumption. Selecting will confirm resetting of all the data (except cruising range).

# $\blacksquare$ 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.

# Hybrid vehicle driving tips

For economical and ecological driving, pay attention to the following points:

## Using Eco drive mode

When using Eco drive mode, the torque corresponding to the accelerator pedal depression amount can be generated more smoothly than it is in normal conditions. In addition, the operation of the air conditioning system (heating/cooling) will be minimized, improving the fuel economy.  $(\rightarrow P.157)$ 

# Use of Hybrid System Indicator

The environmentally-friendly driving is possible by keeping the indicate of Hybrid System Indicator within Eco area.  $(\rightarrow P. 166)$ 

# ■ When braking the vehicle

Make sure to operate the brakes gently and in good time. A greater amount of electrical energy can be retained when slowing down.

# Delays

Repeated acceleration and deceleration, as well as long waits at traffic lights, will lead to bad fuel consumption. Check traffic reports before leaving and avoid delays as much as possible. When encountering a delay, gently release the brake pedal to allow the vehicle to move forward slightly while avoiding overuse of the accelerator pedal. Doing so can help control excessive gasoline consumption.

# Highway driving

Control your speed and keep at a constant speed. Also, before stopping at a toll booth or similar, allow plenty of time to release the accelerator and gently apply the brakes. A greater amount of electrical energy can be retained when slowing down.

# Air conditioning

Use the air conditioning only when necessary. Doing so can help control excessive gasoline consumption.

In summer: In high temperatures, use the recirculated air mode. Doing so will help to reduce the burden on the air conditioner and reduce fuel consumption as well.

In winter: Because the gasoline engine will not automatically cut out until the gasoline engine and the interior of the vehicle are warm, it will consume fuel. Also, fuel consumption can be improved by avoiding overuse of the heater.

# ■ Checking tire inflation pressure

Make sure to check the tire inflation pressure frequently. Improper tire inflation pressure can cause poor fuel consumption.

Also, as snow tires can cause large amounts of friction, their use on dry roads can lead to poor fuel consumption. Use a tire that is appropriate for the season.

# Luggage

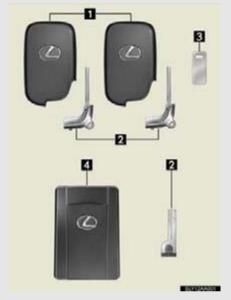
Carrying heavy luggage can lead to poor fuel consumption. Avoid carrying unnecessary luggage. Installing a large roof rack can also cause poor fuel consumption.

# Warming up before driving

Since the gasoline engine starts up and cuts out automatically when cold, warming up the engine is unnecessary. Moreover, frequently driving short distances will cause the engine to repeatedly warm up, which can lead to poor fuel consumption.

# Keys

# The following keys are provided with the vehicle.



- Electronic keys
  - Operating the smart access system with push-button start (→P. 45)
  - Operating the wireless remote control function (→P. 55)
- Mechanical keys
- Key number plate
- Card key (electronic key) (if equipped)

Operating the smart access system with push-button start  $(\rightarrow P. 45)$ 

# Using the mechanical key



To take out the mechanical key:

Electronic keys: Slide the release lever and take the key out.

Card key: Press the lock release button and take the key out.

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 is depleted or the entry function does not operate properly, you will need the mechanical key.  $(\rightarrow P. 540)$ 

# ■ Card key

- The mechanical key that is stored inside the card key should be used only if a problem arises, such as when the card 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 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 luggage security system on as circumstances demand. ( $\rightarrow$ P. 368) 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.  $(\rightarrow P. 539)$ 

# ■ When riding in an aircraft

When bringing an electronic key onto an aircraft, make sure you do not press any buttons on the electronic key while inside the aircraft cabin. If you are carrying an electronic key in your bag etc., ensure that the buttons are not likely to be pressed accidentally. Pressing a button may cause the electronic key to emit radio waves that could interfere with the operation of the aircraft.

# **⚠** 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 long periods 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 attach a sticker or anything else to the surface of the electronic key.
- Do not place the keys near objects that produce magnetic fields, such as TVs, audio systems and glass top ranges, or medical electrical equipment, such as lowfrequency therapy equipment.

#### Carrying the electronic key on your person

Carry the electronic key 3.9 in. (10 cm) or more away from electric appliances that are turned on. Radio waves emitted from electric appliances within 3.9 in. (10 cm) of the electronic key may interfere with the key, causing the key to not function properly.

■ In case of a smart access system with push-button start malfunction or other keyrelated problems

Take your vehicle with all the electronic keys provided with your vehicle, including the card key, to your Lexus dealer.

# ■ When a vehicle key is lost

If the key remains lost, the risk of vehicle theft increases significantly. Visit your Lexus dealer immediately with all remaining electronic keys and the card key that was provided with your vehicle.

# **⚠** NOTICE

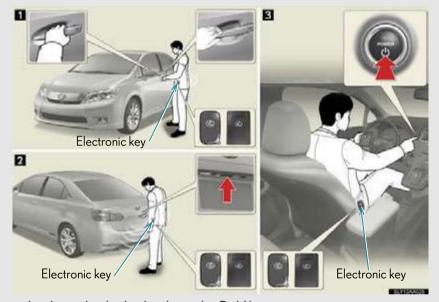
## ■ Precautions for handling the card key

- Do not apply excess force when inserting the mechanical key into the card key.
   Doing so may damage the card key.
- If the battery or card key terminals get wet, the battery may corrode and the card key may stop working.
  - 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 and keys.
  - The card key is scraped with a sharp object, such as the tip of a mechanical pencil.
  - The surface of the card key is wiped with thinner or benzene.

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



- **11** Locks and unlocks the doors  $(\rightarrow P. 46)$
- 2 Unlocks the trunk ( $\rightarrow$ P. 46)
- $\blacksquare$  Starts the hybrid system ( $\rightarrow$ P. 147)

# Unlocking and locking the doors (front door handles only)



Grip the handle to unlock the doors.

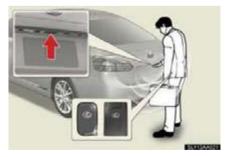
Make sure to touch the sensor on the back of the handle.

The doors cannot be unlocked for 3 seconds after the doors are locked.



Touch the lock sensor (the indentation on the upper part of the door handle) to lock the doors.

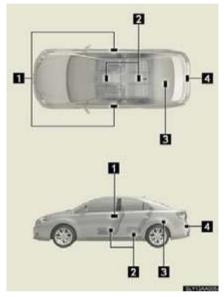
# Unlocking the trunk



Press the button to unlock the trunk.

# Antenna location and effective range

# ■ Antenna location



- 1 Antennas outside the cabin
- 2 Antennas inside the cabin
- 3 Antenna inside the trunk
- 4 Antenna outside the 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. (0.7 m) of either of the front outside door handles. (Only the doors detecting the key can be operated.)

When unlocking the trunk

The system can be operated when the electronic key is within about 2.3 ft. (0.7 m) 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

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

■ When the door cannot be locked by the lock sensor on the upper part of the door handle



Touch both lock sensors on the upper and lower part of the door handle simultaneously.

#### Alarms and warning indicators

A combination of exterior and interior alarms as well as warning messages shown on the multi-information display is used to prevent theft of the vehicle and accidents resulting from erroneous operation. Take appropriate measures in response to any warning message on the multi-information display.  $(\rightarrow P. 507)$ 

The following table describes circumstances and correction procedures when only alarms are sounded.

Alarm	Situation	Correction procedure
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.
Interior alarm pings repeatedly	The "POWER" switch was turned to ACCESSORY mode while the driver's door is open (The driver's door was opened when the "POWER" switch is in ACCESSORY mode.)	Turn the "POWER" switch off and close the driver's door.

## ■ Security feature

If a door is not opened within approximately 60 seconds after the vehicle is unlocked, the security feature automatically locks the vehicle again.

# ■ Battery-saving function

The battery-saving function will be activated in order to prevent the electronic key battery and the 12-volt battery from being discharged while the vehicle is not in operation for a long time.

- In the following situations, the smart access system with push-button start may take some time to unlock the doors.
  - The electronic key has been left in an area of approximately 6 ft. (2 m) of the outside of the vehicle for 10 minutes or longer.
  - The smart access system with push-button start has not been used for 5 days or longer.

• If the smart access system with push-button start has not been used for 14 days or longer, the doors cannot be unlocked at any doors except the driver's door. In this case, take hold of the driver's door handle, or use the wireless remote control or the mechanical key, to unlock the doors.

#### ■ 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:  $\rightarrow$ P. 540)

- 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 other wireless key (that emit radio waves) is 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

## ■ 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 door pockets or 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.

# ■ Notes for locking the doors

- Touching the door lock sensor while wearing gloves may delay or prevent lock operation. Remove the gloves and touch the lock sensor again.
- When the lock operation is performed using the lock sensor, recognition signals will be shown up to two consecutive times. After this, no recognition signals will be given.
- If the door handle becomes wet while the electronic key is within the effective range, the door may lock and unlock repeatedly. Place the key in a position 6 ft. (2 m) or more separate from the vehicle while the vehicle is being washed. (Take care to ensure that the key is not stolen.)

- If the electronic key is inside the vehicle and a door handle becomes wet during a car wash, a message may be shown on the multi-information display and a buzzer will sound outside the vehicle. To turn off the alarm, lock all the doors.
- The lock sensor may not work properly if it comes into contact with ice, snow, mud, etc. Clean the lock sensor and attempt to operate it again, or use the lock sensor on the lower part of the door handle.
- Fingernails may scrape against the door during operation of the door handle.
   Be careful not to injure fingernails or damage the surface of the door.

#### ■ Notes for the unlocking function

- 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.
- Gripping the door handle when wearing a glove may not unlock the door. Remove the gloves and touch the sensor on the back of the handle again.
- If the door handle becomes wet while the electronic key is within the effective range, the door may lock and unlock repeatedly. Place the key in a position 6 ft. (2 m) or more separate from the vehicle while the vehicle is being washed. (Take care to ensure that the key is not stolen.)
- If there is another electronic key in the detection area, it may take slightly longer to unlock the doors after the door handle is gripped.
- Fingernails may scrape against the door during operation of the door handle. Be careful not to injure fingernails or damage the surface of the door.

# ■ 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.
- The smart access system with push-button start can be deactivated in advance.  $(\rightarrow P. 580)$

#### ■ Alarm

Using the smart access system with push-button start to lock the doors will set the alarm system. ( $\rightarrow$ P. 100)

# ■ 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 operate.)

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

- Locking and unlocking the doors, unlocking the trunk: Use the mechanical key.  $(\rightarrow P.540)$
- Starting the hybrid system:  $\rightarrow$  P. 541

#### ■ 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.)
- If the battery becomes low, an alarm will sound in the cabin when the hybrid system stops.  $(\rightarrow P. 49)$
- As the electronic key always transmits radio waves, the battery will become depleted even if the electronic key is not used. The following symptoms indicate that the electronic key battery may be depleted. Replace the battery when necessary. (→P. 459)
  - The smart access system with push-button start or the wireless remote control does not operate.
  - The detection area becomes smaller.
  - The LED indicator on the key surface does not turn on.
- To avoid serious deterioration, do not leave the electronic key within 3 ft. (1 m) of the following electrical appliances that produce a magnetic field:
  - TVs
  - Personal computers
  - Cellular phones, cordless phones and battery chargers
  - Recharging cellular phones or cordless phones
  - Glass top ranges
  - Table lamps

# ■ When the electronic key battery is fully depleted

 $\rightarrow$ P. 459

#### ■ Customization

Settings (e.g. smart access system with push-button start) can be changed. (Customizable features  $\rightarrow$ P. 580)

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

#### For vehicles sold in the U.S.A.

FCC ID: HYQ14ACX FCC ID: HYQ14ADF FCC ID: HYQ14AEB FCC ID: HYQ13CZK FCC ID: HYQ13CZL

FCC ID: NI4TMLF8-13

#### 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.

#### For vehicles sold in Canada

#### NOTF:

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.

# **A** CAUTION

# ■ Caution regarding interference with electronic devices

- ullet People with implanted pacemakers or cardiac defibrillators should keep away from the smart access system antennas. ( $\rightarrow$ P. 47)
  - 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.
- Users 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 on disabling the entry function.

Wireless remote control

# The wireless remote control can be used to lock and unlock the vehicle.



- 1 Locks all the doors
- 2 Unlocks all the doors

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

- © Opens the windows and moon roof (press and hold)\*
- 4 Unlocks the trunk (press and hold)
- Sounds the alarm (press and hold)  $(\rightarrow P. 56)$
- \*: This setting must be customized at your Lexus dealer.

# ■ 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.

#### ■ Panic mode



When ((1) is pressed for longer than about one second, an alarm will sound intermittently and the vehicle lights will flash to deter any person from trying to break into or damage your vehicle.

To stop the alarm, press any button on the electronic key.

## ■ Security feature

→P 49

#### ■ Alarm

Using the wireless remote control to lock the doors will set the alarm system.  $(\rightarrow P. 100)$ 

#### ■ Conditions affecting operation

 $\rightarrow$ P.50

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

Locking and unlocking the doors, unlocking the trunk: Use the mechanical key.  $(\rightarrow\!P\!.\,540)$ 

## ■ Electric key battery depletion

 $\rightarrow P.53$ 

# ■ When the electric key battery is fully depleted

 $\rightarrow$ P. 459

#### ■ Customization

Settings (e.g. door unlocking function) can be changed. (Customizable features →P. 580)

#### ■ Certification for wireless remote control

#### For vehicles sold in the U.S.A.

FCC ID: HYQ14ACX FCC ID: HYQ14ADF FCC ID: HYQ14AEB FCC ID: HYQ13CZK FCC ID: HYQ13CZL

FCC ID: NI4TMLF8-13

#### 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.

#### For vehicles sold in 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

# **Doors**

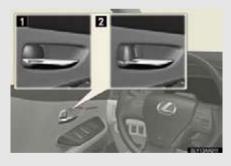
The vehicle can be locked and unlocked using the entry function, wireless remote control or door lock switch.

- **■** Entry function
  - $\rightarrow$ P. 45
- Wireless remote control
  - $\rightarrow P.55$
- Door lock switches



- Locks all the doors
- 2 Unlocks all the doors

■ Inside lock buttons



- 11 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

STEP 1 Move the inside lock button to the lock position.

STEP 2 Close the door.

The door cannot be locked if the "POWER" switch is in ACCESSORY 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 lock is 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.

## ■ 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.

# ■ Using the mechanical key

The doors can also be locked and unlocked with the mechanical key.  $(\rightarrow P. 540)$ 

# ■ If a wrong key is used

The key cylinder rotates freely to isolate inside mechanism.

#### ■ Customization

Settings (e.g. unlocking function using a key) can be changed. (Customizable features →P. 580)

# **A** 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 the doors.
- Ensure that all doors are properly closed.
- Do not pull the inside handle of the doors while driving.

The doors may be opened and the passengers are thrown out of the vehicle and it may result in serious injury or death.

Be especially careful for the front doors, as the doors may be opened even if the inside lock buttons are in locked position.

• Set the rear door child-protector locks when children are seated in the rear seats.

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

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

Opening the trunk from inside the vehicle



Press the opener switch to release the trunk lid.

Opening the trunk from outside the vehicle

# **Entry function**

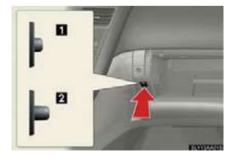
→P. 45

Wireless remote control

→P. 55

# Luggage security system

To protect luggage stored in the trunk against theft, do the following:



- 1 On
- 2 Off

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

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

#### ■ Trunk handle



Use the trunk handle when closing the trunk.

#### ■ Function to prevent the trunk being locked with the electronic key inside

- When all doors are being 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 using the entry function.
- Even when the spare electronic key is put in the trunk with all the doors locked, the key confinement prevention function can be activated so the trunk can be opened. In order to prevent theft, take all electronic keys with you when leaving the vehicle.
- Even when the electronic key is put in the trunk with all the doors are locked, the key may not be detected depending on the places and the surrounding radio wave conditions. In this case, the key confinement prevention function cannot be activated, causing the doors to lock when the trunk is closed. Make sure to check where the key is before closing the trunk.
- The key confinement prevention function cannot be activated if any one of the doors is unlocked. In this case, open the trunk using the trunk opener.

#### ■ 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 the 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.  $(\rightarrow P. 540)$ 

■ Which key to the vehicle is to leave with a parking attendant after disabling the trunk opener main switch

 $\rightarrow$ P.42

# **A** CAUTION

## ■ Caution while driving

- Keep the trunk lid closed while driving.
   If the trunk lid is left open, it may hit near-by objects while driving or luggage in the trunk may be unexpectedly thrown out, causing an accident.
   In addition, exhaust gases may enter the vehicle, causing death or a serious
- Before driving the vehicle, make sure that the trunk lid is fully closed. If the trunk lid is not fully closed, it may open unexpectedly while driving, causing an accident.

health hazard. Make sure to close the trunk lid before driving.

Never let anyone sit in the trunk. In the event of sudden braking or a collision, they
are susceptible to death or serious injury.

#### ■ When children are in the vehicle

Observe the following precautions.

Failure to do so may result in death or serious injury.

- Do not allow children to enter the trunk.
   If a child is accidentally locked in the trunk, they could have heat exhaustion or suffocate.
- Do not allow a child to open or close the trunk lid.
   Doing so may cause the trunk lid to operate unexpectedly, or cause the child's hands, head, or neck to be caught by the closing trunk lid.

## **A** CAUTION

#### ■ Using the trunk

Observe the following precautions.

Failure to do so may cause parts of the body to be caught, resulting in serious injury.

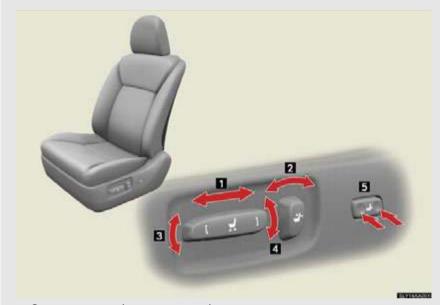
- Remove any heavy loads, such as snow and ice, from the trunk lid before opening it. Failure to do so may cause the trunk lid to fall closed again after it is opened.
- When opening or closing the trunk lid, thoroughly check to make sure the surrounding area is safe.
- If anyone is in the vicinity, make sure they are safe and let them know that the trunk is about to open or close.
- Use caution when opening or closing the trunk lid in windy weather as it may move abruptly in strong wind.





- The trunk lid may fall if it is not opened. fully. It is more difficult to open or close the trunk lid on an incline than on a level surface, so beware of the trunk lid unexpectedly opening or closing by itself. Make sure that the trunk lid is fully open and secure before using the trunk.
- When closing the trunk lid, take extra care to prevent your fingers etc. from being caught.
- When closing the trunk lid, make sure to press it lightly on its outer surface. If the trunk handle is used to fully close the trunk lid, it may result in hands or arms being caught.
- Do not attach any accessories other than genuine Lexus parts to the trunk lid. Such additional weight on the trunk lid may cause the lid to fall closed again after it is opened.

# Front seats



- Seat position adjustment switch
- 2 Seatback angle adjustment switch
- Seat cushion (front) angle adjustment switch
- 4 Vertical height adjustment switch
- **5** Lumbar support adjustment switch

# Power easy access system (vehicles with driving position memory)

When the driver enters and exits the vehicle, the driver's seat and steering wheel will automatically perform the following operations:



Exiting the vehicle: When all of the following actions have been performed, the steering wheel will move up and back to the point farthest away from the driver and the seat will move backward (auto away function):

- The "POWER" switch has been turned off
- The driver seat belt has been unfastened

Entering the vehicle: When either of the following actions has been performed, the steering wheel will move toward the driver and seat will move forward (auto return function):

- The "POWER" switch has been turned to ACCESSORY or ON mode
- The driver seat belt has been fastened

#### Active head restraints



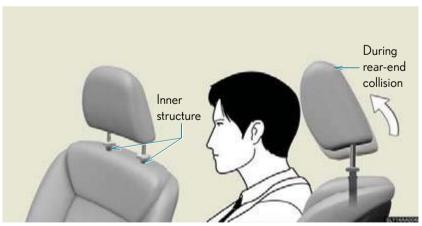
When the occupant's lower back presses against the seatback during a rear-end collision, the head restraint moves slightly forward and upward to help reduce the risk of whiplash on the seat occupant.

# ■ The auto away function for exiting the driver seat

If the seat is already close to the rearmost position, the auto away function may not operate when the driver exits the vehicle.

#### ■ Active head restraints

Even small forces applied to the seatback may cause the head restraint to move. Pushing up a locked head restraint forcibly may appear the head restraint inner structure. These do not indicate problems.



#### ■ Customization

The distance that the driver's seat moves backward during the auto away function can be changed. (Customizable features—P. 580)

# **A** 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.

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

# Driving position memory (driver's seat)\*

Your preferred driving position (the position of the driver's seat, steering wheel and outside rear view mirrors) 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

- STEP 1 Check that the shift position is in P.
- STEP 2 Turn the "POWER" switch to ON mode.
- Adjust the driver's seat, steering wheel and outside rear view mirrors to the desired positions.



While pressing and holding the "SET" button, or within 3 seconds of 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

- STEP 1 Check that the shift position is in P.
- STEP 2 Turn the "POWER" switch to ON mode.



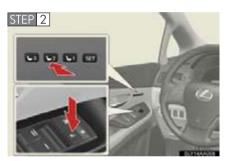
Press button 1, 2 or 3 until the signal beeps to recall the desired position.

# Linking driving position memory with door unlock operation

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

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 Shift the shift position to P and close the driver's door. Turn the "POWER" switch to ON mode.



Press the desired button (1, 2 or 3) to recall the position. Then, while keep pressing the button, press the driver's door lock switches (either lock or unlock) 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.

#### Operating the driving position memory after turning the "POWER" switch off

Memorized positions (except for the steering wheel position) can be activated up to 180 seconds after the driver's door is opened and another 60 seconds after it is closed again, even after turning the "POWER" switch off.

#### ■ Canceling the linked door unlock operation

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

STEP 2 While pressing the "SET" button, press the driver's door lock switches (either lock or unlock) until the signal beeps.

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

Perform any of the following operations:

- Press the "SFT" button.
- Press button 1.2 or 3.
- Adjust the seat using the switches (only cancels seat position recall).
- Adjust the steering wheel using the tilt and telescopic steering control switch (only cancels steering wheel position recall).

## ■ Correct seat position

When the seat is in the most forward or most backward position, and the seat is being moved in those directions, the system may not correctly recognize the current position and the memorized position will not be correctly recalled.

#### ■ Customization

If a seat position is memorized, the driver seat will move back the set distance  $(\rightarrow P. 580)$  from that memorized position.

## **A** CAUTION

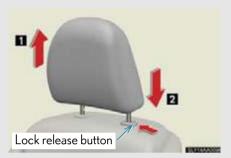
## Seat adjustment caution

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)

# **Head restraints**

# Head restraints are provided for all seats.



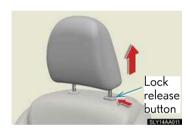
# 1 Up

Pull the head restraints up.

#### 2 Down

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

## ■ Removing the head restraints



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

# ■ Installing the head restraints



Align the head restraint with the installation holes and push it down to the lock position.

Press and hold the lock release button when lowering the head restraint.

#### ■ Adjusting the height of the head restraints (front seats)



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

#### Adjusting the rear seat head restraints

Always raise the head restraint one level from the stowed position when using.

### **A** CAUTION

#### ■ Head restraint precautions

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

- Use the head restraints designed for each respective seat.
- Adjust the head restraints to the correct position at all times.
- After adjusting the head restraints, push down on them and make sure they are locked in position.
- Do not drive with the head restraints removed.

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

### Seat belts

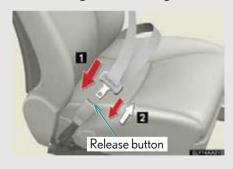
Make sure that all occupants are wearing their seat belts before driving the vehicle.

#### 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



- To fasten the seat belt, push the plate into the buckle until a click sound is heard.
- ☑ To release the seat belt, press
  the release button

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



- Push the seat belt shoulder anchor down while pressing the release button.
- Push the seat belt shoulder anchor up.

Move the height adjuster up and down as needed until you hear a click.

### 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)

If the pre-collision sensor detects that a collision is unavoidable, the precollision system will retract the seat belt using a motor, thus enhancing the effectiveness of the seat belt pretensioner in a crash.

The same will happen if the driver makes an emergency braking or loses control of the vehicle.  $(\rightarrow P. 236)$ 

#### ■ 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.  $(\rightarrow P. 127)$ 

#### ■ Pregnant women



Obtain medical advice and wear the seat belt in the proper way.  $(\rightarrow P. 74)$ 

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

If the seat belt is not worn properly, not only 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.  $(\rightarrow P. 74)$ 

### ■ 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. 123)
- When the child becomes large enough to properly wear the vehicle's seat belt, follow the instructions on P. 74 regarding seat belt usage.

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

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

#### ■ Seat belt extender



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

### **A** CAUTION

### ■ Wearing a seat belt

Observe the following precautions to reduce the risk of injury in the event of sudden braking, sudden swerving or an accident.

Failing to do so may cause death or serious injury.

- Ensure that all passengers wear a seat belt.
- Always wear a seat belt 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.

### **A** CAUTION

#### ■ Seat belt pretensioners

- Do not place anything, such as a cushion, on the front passenger's seat. Doing so will disperse the passenger's weight, which prevents the sensor from detecting the passenger's weight properly. As a result, the seat belt pretensioner for the front passenger's seat may not activate in the event of a collision.
- If the pretensioner has activated, the SRS warning light will come on. In that case, the seat belt cannot be used again and must be replaced at your Lexus dealer.

#### Adjustable shoulder anchor

Always make sure the shoulder belt is positioned across the center of your shoulder. The belt should be kept away from your neck, but not falling off your shoulder. Failure to do so could reduce the amount of protection in an accident and cause death or serious injuries in the event of a sudden stop, sudden swerve or accident.  $(\rightarrow P.75)$ 

#### Child restraint lock function belt precaution

Do not allow children to play with the child restraint lock function belt. If the belt becomes twisted around a child's neck, it will not be possible to pull the belt out leading to choking or other serious injuries that could result in death.

If this occurs and the buckle cannot be unfastened, scissors should be used to cut the belt.

### ■ Seat belt damage and wear

- Do not damage the seat belts by allowing the belt, plate, or buckle to be jammed in the door.
- Inspect the seat belt system periodically. Check for cuts, fraying, and loose parts. Do not use a damaged seat belt until it is replaced. Damaged seat belts cannot protect an occupant from death or serious injury.
- Ensure that the belt and 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's 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.

### **A** CAUTION

### ■ 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 serious injury in the event of an accident.
- 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.

■ Manual adjustment\*



Hold the steering wheel and push the lever down.

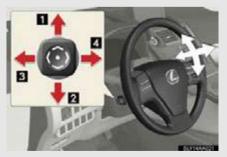


Adjust to the ideal position by moving the steering wheel horizontally and vertically.

After adjustment, pull the lever up to secure the steering wheel.

### ■ Power adjustment\*

Operating the switch moves the steering wheel in the following directions:



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

#### Auto tilt away



When the "POWFR" switch is turned off, 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 ACCESSORY or ON mode will return the steering wheel to the original position.

#### ■ The steering wheel can be adjusted when

The "POWER" switch is in ACCESSORY or ON mode\*.

- \*: Vehicles with driving position memory: If the driver's seat belt is fastened, the steering wheel can be adjusted regardless of "POWER" switch mode.
- Automatic adjustment of the steering position (vehicles with driving position memory)

A desired steering position can be entered to memory and recalled automatically by the driving position memory system.  $(\rightarrow P. 69)$ 

#### **A** 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.

### ■ After adjusting the steering wheel (manually adjustable type only)

Make sure that the steering wheel is securely locked.

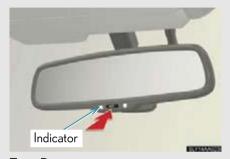
Otherwise, the steering wheel may move suddenly, possibly causing an accident, and resulting in death or serious injury.

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

### Inside rear view mirror

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

### Type A

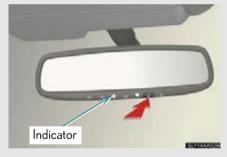


Turns automatic mode on/off

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.

Type B



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.

### Adjusting the height of rear view mirror



Adjust the height of the rear view mirror by moving it up and down.

### ■ To prevent sensor error

### Type A



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

### Type B



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

## **A** 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.

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

### **Outside rear view mirrors**

### Mirror angle can be adjusted using the switch.



To select a mirror to adjust, press the switch.

- Left
- **2** Right



To adjust the mirror, press the switch.

- 1 Up
- 2 Right
- **3** Down
- 4 Left

### Folding the mirrors



Push the mirror back in the direction of the vehicle's rear.

### ■ Mirror angle can be adjusted when

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

#### ■ Linked mirror function when reversing (vehicles with driving position memory)

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").

#### ■ Rain clearing mirrors (if equipped)

When water droplets collects on the mirror surface, for example when it rains, the rain clearing (hydrophilic) effect of the mirrors causes the droplets to be spread out into a film making the rear view clearer. In the following cases, the rain clearing effect will be reduced temporarily, but will return after 1 or 2 days' exposure to direct sunlight.

- After wiping dirt off the mirrors
- When the mirrors fog up
- After waxing your vehicle in an automatic car wash
- After your vehicle has been parked for a long period in underground parking lots etc. where there is no direct sunlight

### ■ When the mirrors are fogged up

Turn on the mirror defoggers to defog the mirrors.  $(\rightarrow P. 264)$ 

# Automatic adjustment of the mirror angle (vehicles with driving position memory)

A desired mirror face angle can be entered to memory and recalled automatically by the driving position memory.  $(\rightarrow P. 69)$ 

### ■ Auto anti-glare function (if equipped)

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.  $(\rightarrow P. 82)$ 

### **A** CAUTION

#### ■ When driving the vehicle

Observe the following precautions while driving.

Failing 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 rear view mirror surfaces, as they can become very hot and burn you.



#### NOTICE

### If the mirrors become iced up (if equipped)

In order to retain the rain-clearing properties of the mirror, do not attempt to scrape the ice off. Instead, remove it by turning on the mirror defoggers or by applying warm water.

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

### The power windows can be opened and closed using the switches.

Operating the switch moves the windows as follows:



- 1 Closing
- 2 One-touch closing\*
- **Opening**
- 4 One-touch opening\*
- \*: Pushing the switch in the opposite direction will stop window travel partway.

### Window lock switch



Press the switch down to lock the passenger window switches.

The indicator will come on.

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

The passenger windows can still be opened and closed using the power window switches on the driver's side even if the lock switch is on.

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

The "POWER" switch is in ON mode.

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

The power windows can be operated for approximately 43 seconds even after the "POWER" switch is turned to ACCESSORY mode or turned off. 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.

#### ■ When the power window does not close normally

If the jam protection function is operating abnormally and a window cannot be closed, perform the following operations using the power window switch on the relevant door.

- After stopping the vehicle, the window can be closed by holding the power window switch in the one-touch closing position while the "POWER" switch is turned to ON mode.
- If the window still cannot be closed even by carrying out the operation explained above, initialize the function by performing the following procedure.
- Hold the power window switch in the one-touch closing position. Continue holding the switch for a further 6 seconds after the window has closed.
- Hold the power window switch in the one-touch opening position. Continue holding the switch for a further 2 seconds after the window has opened completely.
- Hold the power window switch in the one-touch closing position once again. Continue holding the switch for a further 2 seconds after the window has closed.

If you release the switch while the window is moving, start again from the beginning. If the window continues to close but then re-open slightly even after performing the above procedure correctly, have the vehicle inspected by your Lexus dealer.

#### ■ Door lock linked window operation

- The power windows can be opened and closed using the mechanical key.  $^*$  ( $\rightarrow$ P. 540)
- The power windows can be opened using the wireless remote control.  $^*$  ( $\rightarrow$ P. 55)
  - \*: This setting must be customized at your Lexus dealer.

#### ■ When the 12-volt battery is disconnected

The window lock switch is disabled. If necessary, press the window lock switch after reconnecting the battery.

#### Customization

Settings (e.g. linked door lock operation) can be changed. (Customizable features →P. 580)

### **A** CAUTION

#### Closing the windows

Observe the following precautions.

Failing to do so may result in death or serious injury.

- Check to make sure that all passengers do not have any part of their body in a position where it could be caught when a window is being operated.
- Do not allow children to operate the power windows.
   Closing a power window on someone can cause serious injury, and in some instances, even death.
- To prevent inadvertent power windows operation, never let a small child have and use the wireless remote control.  $(\rightarrow P. 55)$

### ■ 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

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

### Opening and closing



### 1 Opens the moon roof\*

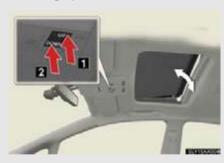
The moon roof stops slightly before the fully open position to reduce wind noise.

Press the switch again to fully open the moon roof.

### Closes the moon roof\*

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

### ■ Tilting up and down



### 1 Tilts the moon roof up\*

- ☑ Tilts the moon roof down\*
- \*: Lightly press either of the moon roof switches to stop the moon roof partway.

#### ■ The moon roof can be operated when

The "POWER" switch is in ON mode.

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

The moon roof can be operated for approximately 43 seconds even after the "POWER" switch is turned to ACCESSORY mode or turned off. 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 the moon roof is closing or tilting down, travel is stopped and the moon roof opens slightly.

#### ■ To reduce moon roof wind noise

Drive with the moon roof opened to slightly before the fully open position as driving with the moon roof opened fully will cause wind noise.

#### ■ Sunshade

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

#### Door lock linked moon roof operation

- The moon roof can be opened and closed using the mechanical key.\*  $(\rightarrow P. 540)$
- The moon roof can be opened using the wireless remote control.\* However, this function is available only when the door windows can be opened and closed with the wireless remote control. (→P. 55)
- \*: This setting must be customized at your Lexus dealer.

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

Perform the following procedure:

- If the moon roof closes but then re-opens lightly
- STEP 1 Stop the vehicle.
- The moon roof will close, reopen and pause for approximately 10 seconds.\* Then it will close again, tilt up and pause for approximately 1 second. Finally, it will tilt down, open and close.
- STEP 3 Check to make sure that the moon roof is completely closed and then release the switch.
- If the moon roof tilts down but then tilts back up
- STEP 1 Stop the vehicle.
- Press and hold the "UP" switch\*1 until the moon roof moves into the tilt up position and stops.
- Release the "UP" switch once and then press and hold the "UP" switch again.\*1

The moon roof will pause for approximately 10 seconds in the tilt up position.\*<sup>2</sup> Then it will adjust slightly and pause for approximately 1 second. Finally, it will tilt down, open and close.

- STEP 4 Check to make sure that the moon roof is completely closed and then release the switch.
  - \*1: If the switch is released at the incorrect time, the procedure will have to be performed again from the beginning.
  - \*2: If the switch is released after the above mentioned 10 second pause, automatic operation will be disabled. In that case, press and hold the "CLOSE" or "UP" switch, and the moon roof will tilt up and pause for approximately 1 second. Then it will tilt down, open and close. Check to make sure that the moon roof is completely closed and then release the switch.

If the moon roof does not fully close even after performing the above procedure correctly, have the vehicle inspected by your Lexus dealer.

### ■ 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 off and the driver's door is opened with the moon roof open.

#### ■ Customization

Settings (e.g. linked door lock operation) can be changed. (Customizable features →P. 580)

### **A** CAUTION

#### Opening the moon roof

Observe the following precautions.

Failing 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.

Failing to do so may result in death or serious injury.

- Check to make sure that all passengers do not have any part of their body in a
  position where it could be caught when 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.
- To prevent inadvertent moon roof operation, never let a small child have and use the wireless remote control.  $(\rightarrow P. 55)$

### 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

### Perform the following steps to open the fuel tank cap:

- Before refueling the vehicle

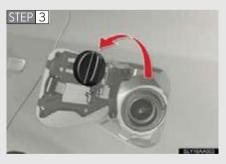
  Turn the "POWER" switch off and close all the doors and windows.
- Opening the fuel tank cap



Press the opener to open the fuel filler door.



Turn the fuel tank cap slowly to open.



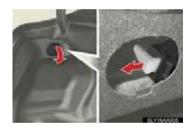
Hang the fuel tank cap on the back of the fuel filler door.

### Closing the fuel tank cap



After refueling, turn the fuel tank cap until you hear a click. Once the cap is released, it will turn slightly in the opposite direction.

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



The lever can be used to open the fuel filler door if the fuel filler door cannot be opened using the inside switch.

### ■ Fuel types

Use unleaded gasoline. (Octane rating 87 [Research Octane Number 91] or higher)

### ■ Fuel tank capacity

Approximately 14.5 gal. (55 L, 12.5 lmp. gal.)

### ■ Use of ethanol blended gasoline in a gasoline engine

Lexus allows the use of ethanol blended gasoline where the ethanol content is up to 10%. Make sure that the ethanol blended gasoline to be used has a Research Octane Number that follows the above.

#### **A** CAUTION

#### ■ When 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 of 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 refueling

Securely insert the fuel nozzle into the fuel filler neck. If fuel is added with the nozzle slightly lifted away from the fuel filler neck, the automatic shut off function may not operate, resulting in fuel overflowing from the tank.

### ■ 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.



### ■ Refueling

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.

### Without navigation system



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

The indicator light stops flashing after the "POWER" switch has been turned to ACCESSORY or ON mode to indicate that the system has been canceled.

### With navigation system



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

The indicator light stops flashing after the "POWER" switch has been turned to ACCESSORY or ON mode to indicate that the system has been canceled.

#### System maintenance

The vehicle has a maintenance-free type immobilizer system.

#### ■ Conditions affecting operation

Depending on the surrounding environment and conditions, the immobilizer system may not operate properly. This may prevent the hybrid system from starting.  $(\to P.50)$ 

#### ■ Certifications for the immobilizer system

#### For vehicles sold in the U.S.A.

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.

#### For vehicles sold in Canada

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

#### **A** CAUTION

### Certifications for the immobilizer system

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



#### NOTICE

### ■ To ensure the system operates correctly

Do not modify or remove the system. If modified or removed, the proper operation of the system cannot be guaranteed.

### **Alarm**

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

### ■ Triggering of the alarm

The alarm is triggered in the following situations when the alarm is set:

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

### Setting the alarm system Without navigation system



Close the doors, trunk and hood, and lock all the doors using the entry function or wireless remote control. The system will be set automatically after 30 seconds.

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

### With navigation system



Close the doors, trunk and hood, and lock all the doors using the entry function or wireless remote control. 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 alarms:

- Unlock the doors or trunk.
- Turn the "POWER" switch to ACCESSORY or ON mode, or start the hybrid system. (The alarm will be deactivated or stopped after a few seconds.)

#### ■ System maintenance

The vehicle has a maintenance-free type alarm system.

### ■ 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.)



 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.

#### ■ When the 12-volt battery is disconnected

Be sure to cancel the alarm system.

If the 12-volt battery is disconnected before canceling the alarm, the system may be triggered when the battery is reconnected.

### ■ Alarm-operated door lock

- When the alarm is operating, the doors are locked automatically to prevent intruders.
- Do not leave the key inside the vehicle when the alarm is operating, and make sure the key is not inside the vehicle when recharging or replacing the 12-volt battery.



### ■ To ensure the system operates correctly

Do not modify or remove the system. If modified or removed, the proper operation of the system cannot be guaranteed.

# Theft prevention labels (for 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 with a good posture as follows:



- Sit upright and well back in the seat.  $(\rightarrow P. 65)$
- Adjust the position of the seat forward or backward to ensure the pedals can be reached and easily depressed to the extent required. (→P. 65)
- Adjust the seatback so that the controls are easily operable.  $(\rightarrow P. 65)$
- Adjust the tilt and telescopic positions of the steering wheel downward so the airbag is facing your chest. (→P. 80)
- 5 Lock the head restraint in place with the center of the head restraint closest to the top of your ears. (→P.72)
- **6** Wear the seat belt correctly. (→P.74)

## **A** CAUTION

#### ■ While driving

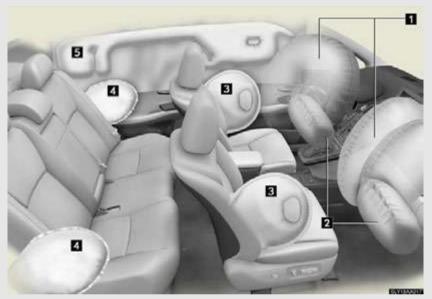
- Do not adjust the position of the driver's seat.
   Doing so could cause the driver to lose control of the vehicle.
- Do not place a cushion between the driver or passenger and the seatback.
   A cushion may prevent correct posture from being achieved, and reduce the effectiveness of the seat belt 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, resulting in death or serious injury. 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.

# 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

- SRS driver airbag/front passenger airbag

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

  Can help provide driver and front passenger protection

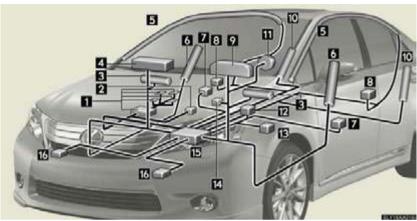
## SRS side and curtain shield airbags

- Front SRS side airbags

  Can help protect the torso of the front seat occupants
- A Rear SRS side airbags

  Can help protect the torso of occupants in the rear outer seats
- **5** SRS curtain shield airbags Can help protect primarily the head of occupants in the outer seats

### SRS airbag system components



- Occupant detection system (ECU and sensors)
- ☑ Front passenger's seat belt Driver airbag buckle switch
- **S** Knee airbags
- 4 Front passenger airbag
- **5** Curtain shield airbags
- 6 Front side airbags
- Side and curtain shield airbag sensors
- 8 Curtain shield and rear side airbag sensors

- 9 SRS warning light
- Rear side airbags
- Driver's seat belt buckle switch
- Driver's seat position sensor
- M "AIR BAG ON" and "AIR BAG OFF" indicator lights
- Airbag sensor assembly
- 16 Front airbag sensors

Your vehicle is equipped with ADVANCED AIRBAGS designed based on the 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's seat position sensor etc. The front passenger's airbag system consists of the front passenger occupant classification sensor etc.

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

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

## ■ If the SRS airbags deploy (inflate)

- Bruising and slight abrasions may result from contact with a deploying (inflating) SRS airbag.
- A loud noise and white powder will be emitted.
- Parts of the airbag module (steering wheel hub, airbag cover and inflator) as well as the seats, parts of the front and rear pillars, and roof side rails, may be hot for several minutes. The airbag itself may also be hot.
- The windshield may crack.
- For Safety Connect subscribers, if the SRS airbags deploy or in the event of a severe rear-end collision, the system is designed to send an emergency call to the response center, notifying them of the vehicle's location (without needing to push the "SOS" button) and an agent will attempt to speak with the occupants to ascertain the level of emergency and assistance required. If the occupants are unable to communicate, the agent automatically treats the call as an emergency and helps to dispatch the necessary emergency services. (→P. 400)

## ■ Operating conditions (SRS front airbags)

- The SRS front airbags will deploy in the event of an impact that exceeds the set threshold level (the level of force corresponding to an approximately 12-18 mph [20-30 km/h] frontal collision with a fixed wall 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 and sign pole, which can move or deform on impact, or if the vehicle is involved in an underride collision (e.g. a collision in which the front of the vehicle "underrides", or goes under, the bed of a truck, etc.).
- It is possible that in some collisions where the forward deceleration of the vehicle is very close to the designed threshold level, the SRS front airbags and the seat belt pretensioners may not activate together.

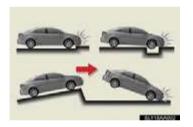
• The SRS front passenger airbag will not activate if there is no passenger sitting in the front passenger seat. However, the SRS front passenger airbag may deploy if luggage is put in the seat, or the seat belt is fastened, even if the seat is unoccupied. (→P. 74)

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

The SRS side airbags and SRS curtain shield airbags will deploy in the event of an impact that exceeds the set threshold level (the level of force corresponding to the impact force produced by an approximately 3307 lb. [1500 kg] vehicle colliding with the vehicle cabin from a direction perpendicular to the vehicle orientation at an approximate speed of 12-18 mph [20-30 km/h]).

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

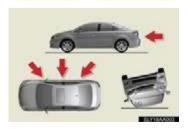
The SRS front airbags may also deploy if a serious impact occurs to the underside of your vehicle. Some examples are shown in the illustration.



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

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

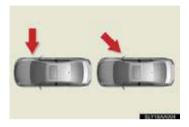
The SRS front airbags are generally not designed to inflate if the vehicle is involved in a side or rear collision, if it rolls over, or if it is involved in a low-speed frontal collision. But, whenever a collision of any type causes sufficient forward deceleration of the vehicle, deployment of the SRS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



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

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

• 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 a door 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.



- The surface of the front seats and rear seat side garnishes (padding) with the side airbag 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.

## 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 the driver's 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.

## 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 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 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 safer for infants and children than the front passenger seat.  $(\rightarrow P. 123)$

## SRS airbag precautions



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



- Do not allow a child to stand in front of the SRS front passenger airbag unit or sit on the knees of a front passenger.
- Do not allow the front seat occupants to hold items 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.

## SRS airbag precautions





- Do not attach anything to or lean anything against areas such as the dashboard, steering wheel pad and lower portion of the instrument panel.
  - These items can become projectiles when the SRS driver, front passenger and knee airbags deploy.
- Do not attach anything to areas such as a door, windshield glass, side door glass, front or rear pillar, roof side rail, and assist arip.
- Do not hang coat hangers or other hard objects on the coat hooks. All of these items could become projectiles and may cause death or serious injury, should the SRS curtain shield airbags deploy.
- If a vinyl cover is put on the area where the SRS knee airbags will deploy, be sure to remove it.
- Do not use seat accessories which cover the parts where the SRS side airbags inflate as they may interfere with inflation of the airbags. Such accessories may prevent the side airbags from activating correctly, disable the system or cause the side airbags to inflate accidentally, resulting in death or serious injury.
- Do not strike or apply significant levels of force to the area of the SRS airbag components.
  - 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 and rear pillar garnishes, are damaged or cracked, have them replaced by your Lexus dealer.

## ■ 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, seat upholstery or rear seat side garnishes (padding), 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 or kangaroo bar etc.)
- Modifications to the vehicle's suspension system
- Installation of electronic devices such as mobile two-way radios and CD players
- Modifications to your vehicle for a person with a physical disability

## Front passenger occupant classification system

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



- SRS warning light
- "AIR BAG OFF" indicator light
- **B** "AIR BAG ON" indicator light
- ◀ Front passenger's seat belt reminder light

## Condition and operation in the front passenger occupant classification system

# Adult\*1

	"AIR BAG ON" and "AIR BAG OFF"	"AIR BAG
Indicator/	indicator lights	ON"
warning light	SRS warning light	Off
	Front passenger's seat belt reminder light	Flashing*2
Devices	Front passenger airbag	
	Side airbag on the front passenger seat	
	Devices Curtain shield airbag in the front passenger side	
	Front passenger knee airbag	
	Front passenger's seat belt pretensioner	

# ■ Child \*3 or child restraint system \*4

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

## ■ Unoccupied

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

## ■ There is a malfunction in the system

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

<sup>\*1:</sup> 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.

 $<sup>^{*2}</sup>$ : In the event the front passenger does not wear a seat belt.

<sup>\*3:</sup> 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.123)
- \*5: In case the indicator light is not illuminated, consult this manual on how to install the child restraint system properly. (→P. 127)

## ■ 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 apply a heavy load to the front passenger seat or equipment.
- Do not put weight on the front passenger seat by putting your hands or feet on the front passenger seat seatback from the rear passenger seat.
- Do not let a rear passenger lift the front passenger seat with their feet or press on the seatback with their legs.
- Do not put objects under the front passenger seat.

## 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.  $(\rightarrow P. 127)$
- 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 and 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 that suits your vehicle and is appropriate to the age and size of the child.
- For installation details, follow the instructions provided with the child restraint system.

General installation instructions are provided in this manual.  $(\rightarrow P. 127)$ 

## Types of child restraints

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

## Rear facing — Infant seat/convertible seat



## Forward facing — Convertible seat



#### **Booster seat**



## ■ Selecting an appropriate child restraint system

- Use a child restraint system appropriate for the child until the child becomes large enough to properly wear the vehicle's seat belt.
- If the child is too large for a child restraint system, sit the child on a rear seat and use the vehicle's seat belt.  $(\rightarrow P. 74)$

#### 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 may be installed on the front passenger seat only when it is unavoidable. A child restraint system that requires a top tether strap should not be used in the front passenger seat since there is no top tether strap anchor for the front passenger seat. Adjust the seatback as upright as possible and 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 sudden stop, sudden swerve or accident.
- 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 and rear pillars or roof side rails 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 SRS side airbags and curtain shield airbags inflate, and the impact could cause death or serious injury to the child.

#### Child restraint precautions

 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, sudden swerve or accident.

## ■ Child restraint lock function belt precaution

Do not allow children to play with the child restraint lock function belt. If the belt becomes twisted around a child's neck, it will not be possible to pull the belt out leading to choking or other serious injuries that could result in death.

If this occurs and the buckle cannot be unfastened, scissors should be used to cut the belt.

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

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

# Installing child restraints

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

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

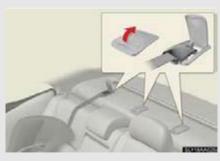


Child restraint LATCH anchors

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



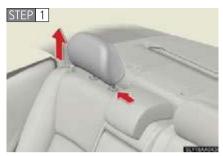
Seat belts equipped with a child restraint locking mechanism (ALR/ELR belts except driver's seat belt) (→P. 74)



Anchor brackets (for top tether strap)

An anchor bracket is provided for each rear seat.

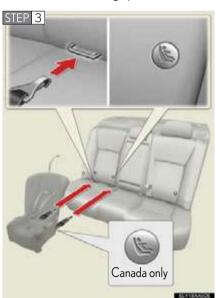
## Installation with LATCH system



Remove the head restraint.

Type A

STEP 2 Widen the gap between the seat cushion and seatback slightly.



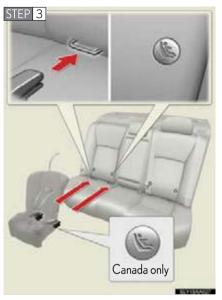
Latch the hooks of the lower straps onto the LATCH anchors. If the child restraint has a top tether strap, the top tether strap should be latched onto the top tether strap anchor.

For owners in Canada:

The symbol on a child restraint system indicates the presence of a lower connector system.

## Type B

STEP 2 Widen the gap between the seat cushion and seatback slightly.



Latch the buckles onto the LATCH anchors. If the child restraint has a top tether strap, the top tether strap should be latched onto the top tether strap anchor.

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

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

## ■ Rear facing — Infant seat/convertible seat



Remove the head restraint.



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



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



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

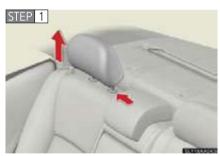
Lock mode allows the seat belt to retract only.



While pushing the child 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



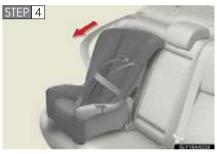
Remove the head restraint.



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

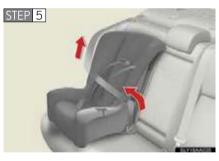


Run the seat belt through the child restraint system and insert the plate into the buckle. Make sure that the belt is not twisted.



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

Lock mode allows the seat belt to retract only.



While pushing the child 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.

STEP 6 If the child restraint has a top tether strap, the top tether strap should be latched onto the top tether strap anchor.  $(\rightarrow P. 134)$ 

#### ■ Booster seat



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



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

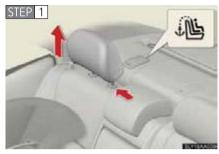
Check that the shoulder belt is correctly positioned over the child's shoulder and that the lap belt is as low as possible.  $(\rightarrow P.74)$ 

## Removing a child restraint installed with a seat belt

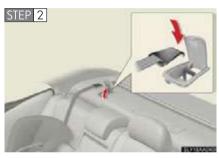


Press the buckle release button and fully retract the seat belt.

## Child restraint systems with a top tether strap



Secure the child restraint system using the seat belt or the LATCH anchors, and remove the head restraint.



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

Make sure the top tether strap is securely latched.

## ■ Laws and regulations pertaining to anchors

The LATCH system conforms to FMVSS225 or CMVSS210.2. Child restraint systems conforming to FMVSS213 or CMVSS213 specifications can be used.

This vehicle is designed to conform to the SAE J1819.

#### ■ When installing a booster seat

To prevent the belt from aging into ALR lock mode, do not fully extend the shoulder belt. ALR mode causes the belt to tighten only. This could cause injury or discomfort to the child.  $(\rightarrow P. 76)$ 

## ■ 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 or other passengers may be seriously injured or even killed in the event of sudden braking, sudden swerving 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.
- Adjust the front passenger seat so that it does not interfere with the child restraint system.
- Only put a forward-facing child restraint system on the front seat when unavoidable. When installing a forward-facing child restraint system 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 installing a child restraint system

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

#### 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 sudden braking, sudden swerving or an accident.

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

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

 $\rightarrow$  P. 147

## Driving

STEP 1 With the brake pedal depressed, select the D position.  $(\rightarrow P. 155)$ 

Check that the shift position indicator shows D.

STEP 2 Release the parking brake.  $(\rightarrow P. 162)$ 

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

## Stopping

- STEP 1 With the D position illuminated on the shift position indicator, depress the brake pedal.
- If necessary, set the parking brake.

  If the vehicle will be stopped for an extended period of time, select the P position. (→P. 155)

## Parking the vehicle

- STEP 1 Stop the vehicle by depressing the brake pedal.
- STEP 2 Set the parking brake. ( $\rightarrow$ P. 162)

  If parking on a hill, block the wheels as needed.
- STEP 3 Press the P position switch to shift into P.  $(\rightarrow P. 156)$ Check that the shift position indicator shows P.  $(\rightarrow P. 155)$
- STEP 4 Press the "POWER" switch to stop the hybrid system.
- STEP 5 Slowly release the brake pedal and check that the indicator on the "POWER" switch is off.
- STEP 6 Lock the door, making sure that you have the electronic key on your person.

## Starting off on a steep uphill

Make sure that the parking brake is set securely, and then select shift position D.

Check that the shift position indicator shows 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, observing the following precautions is recommended:

- For the first 186 miles (300 km): Avoid sudden stops.
- For the first 994 miles (1600 km):
  - Do not drive at extremely high speeds.
  - · Avoid sudden acceleration.
  - 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 operation.

## Operating your vehicle in a foreign country

Comply with the relevant vehicle registration laws and confirm the availability of the correct fuel.  $(\rightarrow P. 558)$ 

#### ■ For efficient use

- Select the D position when driving. In the N position, the gasoline engine operates but electricity cannot be generated. The hybrid battery (traction battery) will discharge, 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.
- Select the P position when parking.
   In the N position, the hybrid battery (traction battery) does not recharge.
   Leaving the N position selected for an extended period of time may discharge the hybrid battery. The vehicle cannot run if the hybrid battery is discharged.

## ■ Eco-friendly driving



During Eco-friendly acceleration (Eco driving), Eco Driving Indicator Light will turn on. When the accelerator pedal is depressed excessively, and when the vehicle is stopped, the light turns off.

Eco Driving Indicator Light will operate when the vehicle is being driven with the shift position in D at a speed of about 80 mph (130 km/h) or below. The indicator will not operate when the vehicle is in power mode or EV drive mode. ( $\rightarrow$ P. 152, 157)

#### Customization

Settings for Eco Driving Indicator Light can be changed. (Customizable features  $\rightarrow$ P. 580)

#### ■ 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. This allows 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 extra 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.
   The exhaust system and exhaust gases can be extremely hot. These hot parts may cause a fire if there is any flammable material nearby.
- Do not let the vehicle roll backward while a forward driving position is selected, or roll forward while R is selected.
  - 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 or a serious health hazard. Have the vehicle inspected by your Lexus dealer immediately.

- Do not select shift position R when the vehicle is rolling forward, do not select D when moving in reverse, and do not press the P position switch before the vehicle stops fully. Doing so will cause the buzzer to sound and the shift position to change to N. In addition, excessive force will be applied to the powertrain and damage may result.
- Do not change the shift position to N while the vehicle is moving.
   Doing so may cause insufficient engine braking, resulting in an accident.
- Do not turn the hybrid system off while driving.
   The power steering and brake actuator will not operate properly if the hybrid system is off.
- Use engine braking (shift position B) 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. 155)
- Do not adjust the positions 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, resulting 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.
- Do not drive in excess of the speed limit. Even if the legal speed limit permits it, do not drive over 85 mph (140 km/h) unless your vehicle has high-speed capability tires. Driving over 85 mph (140 km/h) may result in tire failure, loss of control and possible injury. Be sure to consult a tire dealer to determine whether the tires on your vehicle are high-speed capability tires or not before driving at such speeds.

## ■ 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.
- Abrupt changes from shift position D to B and rapid changes in the engine speed could 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 changing the shift position

Be careful not to change the shift position with the accelerator pedal depressed. Changing the shift position to any positions other than P or N may cause the vehicle to accelerate abruptly, causing an accident and resulting in death or serious injury.

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

Have your Lexus dealer check and replace the brake pads as soon as possible. Rotor damage may result if the pads are not replaced when needed.

It is dangerous to drive the vehicle when the wear limits of the brake pads and/or those of the brake discs are exceeded.

### ■ When the vehicle is stopped

- Do not depress the accelerator pedal unnecessarily.
   If the vehicle is in any shift position other than P or N, the vehicle may accelerate suddenly and unexpectedly, causing 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.
- In order to prevent accidents due to the vehicle rolling away, always keep depressing the brake pedal while the "READY" indicator is on. Apply the parking brake as necessary.
- If the vehicle is stopped on an incline, in order to prevent accidents caused by the vehicle rolling forward or backward, always depress the brake pedal and securely apply the parking brake as needed.
- Avoid revving or racing the engine.
   Running the engine at high speed while the vehicle is stopped may cause the exhaust system to overheat, which could result in a fire if combustible material is nearby.

## ■ 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 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.
- Do not leave cigarette lighters in the vehicle. If a cigarette lighter is in a place such
  as the glove box or on the floor, it may be lit accidentally when luggage is loaded
  or the seat is adjusted, causing a fire.
- Do not attach adhesive discs to the windshield or windows. Do not place containers such as air fresheners on the instrument panel or dashboard. Adhesive discs or containers may act as lenses, causing a fire in the vehicle.
- Do not leave a door or window open if the curved glass is coated with a metallized film such as a silver-colored one. Reflected sunlight may cause the glass to act as a lens, causing a fire.
- Always apply the parking brake, select shift position 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 pipe 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.

## ■ Exhaust gases

Exhaust gases include harmful carbon monoxide (CO), which 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 system 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.

#### **A** CAUTION

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

Always turn the hybrid system off. Otherwise, if you accidentally move the shift lever or depress the accelerator pedal, this 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

- When the brakes are wet, drive more cautiously. Braking distance increases when the brakes are wet, and this may cause one side of the vehicle to brake differently than the other side. Also, the parking brake may not securely hold the vehicle.
- If the power brake assist function does not operate, do not follow other vehicles closely and avoid downhill or sharp turns that require braking. In this case, braking is still possible, but it will require more force on the pedal than usual. Braking distance may also increase.
- The brake system consists of 2 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 the braking distance will increase. If this happens, do not continue to drive the vehicle. If the brake system warning light (red indicator) comes on while driving, immediately stop the vehicle in a safe place and contact vour Lexus dealer.

#### ♠ NOTICE

#### When driving the vehicle

- Do not depress the accelerator and brake pedals at the same time during driving. If the brake pedal is depressed while driving with the accelerator pedal depressed, driving torque may be restrained.
- 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

Be sure to firmly apply the parking brake and set the shift position to P. Failure to do so may cause the vehicle to move or the vehicle may accelerate suddenly if the accelerator pedal is accidentally depressed.

## **⚠** NOTICE

#### Avoiding damage to vehicle parts

- Do not turn the steering wheel fully in either direction and hold it there for an extended period of 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 or vibrations.
- The vehicle will lean abnormally.

Information on what to do in case of a flat tire.  $(\rightarrow P. 527)$ 

#### ■ 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 engine oil, transaxle fluid for the hybrid system etc.
- Lubricant condition for the bearings and suspension joints (where possible), and the function of all joints, bearings, etc.

As flooding may damage components involved in P position control, the parking lock may jam in the locked position.

#### ■ If the vehicle will not shift out of the P position

There is a possibility that the 12-volt battery is discharged. Check the 12-volt battery in this situation.

## Power (ignition) switch

Performing the following operations when carrying the electronic key on your person starts the hybrid system or changes "POWER" switch modes.

#### Starting the hybrid system

STEP 1 Check that the parking brake is set.

STEP 2 Firmly depress the brake pedal.

The "POWER" switch indicator will turn green. If the indicator does not turn green, the hybrid system cannot be started.

When shift position N is selected, the hybrid system cannot start. Select the P position when starting the hybrid system.



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.

Continue depressing the brake pedal until the hybrid system is completely started.

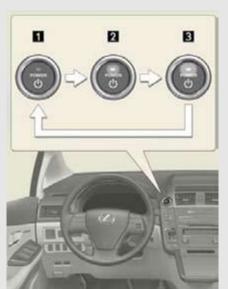
The hybrid system can be started from any mode.

### Stopping the hybrid system

- STEP 1 Stop the vehicle by depressing the brake pedal.
- STEP 2 Set the parking brake.  $(\rightarrow P. 162)$
- STEP 3 Press the P position switch to shift into P.  $(\rightarrow P. 156)$ Check that the shift position indicator on the instrument cluster shows P.  $(\rightarrow P. 155)$
- STEP 4 Press the "POWER" switch.
- STEP 5 Slowly release the brake pedal and check that the indicator on the "POWER" switch is off.

### ■ Changing "POWER" switch modes

Modes can be changed by pressing the "POWER" switch with the brake pedal released. (The mode changes each time the switch is pressed.)



#### 1 Off

The emergency flashers can be used.

#### ACCESSORY mode

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

The "POWER" switch indicator turns amber.

#### **3** ON mode

All electrical components can be used.

The "POWER" switch indicator turns amber.

#### ■ Auto power off function

If the vehicle is left in ACCESSORY or ON mode (the hybrid system is not operating) for more than an hour with the shift position in P, the "POWER" switch will automatically turn off. However, this function cannot entirely prevent the 12-volt battery from discharging. Do not leave the vehicle with the "POWER" switch in ACCESSORY or ON mode for long periods of time when the hybrid system is not operating.

- Sounds and vibrations specific to a hybrid vehicle
  - $\rightarrow$ P 26
- Electronic key battery depletion
  - $\rightarrow$ P.53
- When the ambient temperature is low, such as during winter driving conditions It may take time until the "READY" indicator to come on.
- Conditions affecting operation
  - $\rightarrow$ P. 50
- Notes for the entry function
  - $\rightarrow$ P. 51
- If the hybrid system does not start

The immobilizer system may not have been deactivated.  $(\rightarrow P. 98)$ 

■ 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 position in P and the brake pedal depressed, contact your Lexus dealer immediately.

- If the hybrid system is malfunctioning
  - $\rightarrow$ P. 507
- If the electronic key battery is depleted

 $\rightarrow$ P. 459

#### ■ Operation of the "POWER" switch

- When operating the "POWER" switch, one short, firm press is enough. If the switch is pressed improperly, the hybrid system may not start or the "POWER" switch mode may not change. It is not necessary to press and hold the switch.
- If attempting to restart the hybrid system immediately after turning the "POWER" switch off, the hybrid system may not start in some cases. After turning the "POWER" switch off, please wait a few seconds before restarting the hybrid system.

#### ■ Automatic P position selection function

- When the shift position is in a position other than P, pressing the "POWER" switch with the vehicle stopped completely will cause the shift position to change to P automatically, and then the "POWER" switch will turn off.
- When turning the "POWER" switch off from a position other than P, firmly depress the brake pedal and confirm that the shift position\* has changed to P before slowly releasing the brake pedal.
  - \*: Even after the instrument panel display has been turned off, the shift position indicator will continue to be displayed for several seconds.
- If the P position control system malfunctions, the "POWER" switch will not be able to be turned off. In such a case, the switch can be turned off by applying the parking brake.
  - When the system malfunctions, immediately have your vehicle serviced by your Lexus dealer.

### **A** 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.

#### ■ Stopping the hybrid system in an emergency

If you want to stop the hybrid system in an emergency while driving the vehicle, press and hold the "POWER" switch for more than 3 seconds.

However, do not touch the "POWER" switch while driving unless in an emergency. If the hybrid system stops while driving, this could lead to an unexpected accident.

## **⚠** NOTICE

#### ■ To prevent 12-volt battery discharge

- Do not leave the "POWER" switch in ACCESSORY or ON mode for long periods of time without the hybrid system on.
- If the hybrid system is off, but the indicator on the "POWER" switch is illuminated, this indicates that the "POWER" switch is still turned on. When exiting the vehicle, always check that the "POWER" switch is off.
- When starting the hybrid system

Do not depress the accelerator pedal unnecessarily.

■ Symptoms indicating a malfunction with the "POWER" switch

If the "POWER" switch seems to be operating somewhat differently than usual, such as the switch sticking slightly, there may be a malfunction. Contact your Lexus dealer immediately.

### 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 late at night, or in indoor parking lots etc. without concern for noises and exhaust gas emissions.



Turns FV drive mode 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 the vehicle 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.

- Vehicle speed is about 19mph (30km/h) or more.
- The hybrid battery (traction battery) is low.
   In general, the remaining battery level indicated in the "Energy Monitor" display is level 3 or lower. (→P. 33)
- 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 accelerator pedal is depressed firmly or the vehicle is on a hill etc.
- The windshield defogger is in use.

#### ■ Automatic cancellation 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. In general, the remaining battery level indicated in the "Energy Monitor" display is level 2 or lower. (→P. 33)
- Vehicle speed becomes more than about 19 mph (30 km/h).
- The accelerator pedal is depressed firmly or the vehicle is on a hill etc.

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

In EV drive mode, it is possible to drive up to about several hundred yards if driving at a speed of about 19 mph (30 km/h) or less. (The distance that is possible depends on the hybrid battery [traction battery] level and driving conditions.)

#### 2-1. Driving procedures

#### ■ Fuel economy

HS250h 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.

### **A** 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.

## **Hybrid transmission**

Select a shift position appropriate for the driving conditions.

Shifting the shift lever

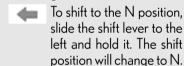


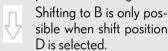
#### 1 Shift lever

Operate the shift lever gently and ensure correct shifting operation.



When shifting to the D or R positions, move the shift lever along the shift gate.





The shift lever will always return to this position after a shifting operation.

When shifting from P to D or R, from D to R, or from R to D, ensure that the brake pedal is being depressed and the vehicle is stationary.

#### 2 Shift position indicator

When selecting the shift position, make sure that the shift position has been changed to the desired position by checking the shift position indicator provided on the instrument panel.

When any shift position other than D or B is selected, the arrow toward B disappears from the shift position indicator.

### Shift position purpose

Shift position	Function
Р	Parking the vehicle/starting the hybrid system
R	Reversing
N	Neutral
D	Normal driving*
В	Applying moderate engine braking when driving down hills or on steep slopes

<sup>\*:</sup> For good fuel economy and noise reduction, the D position should usually be used.

#### Position switch

The shift position can be changed to P through use of the P position switch.



Fully stop the vehicle and keep depressing the brake pedal, and then press the P position switch.

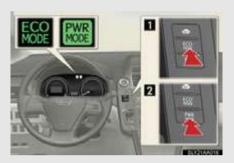
When the shift position is changed to P, the switch indicator comes on.

Check that the P position indicator is illuminated on the shift position indicator.

- Changing the shift position from P to other positions:
  - While depressing the brake pedal firmly, operate the shift lever. If the shift lever is operated without depressing the brake pedal, the buzzer will sound and the shifting operation will be disabled.
  - The shift position cannot be changed from P to B directly.

### Selecting a driving mode

The following modes can be selected to suit driving conditions:



#### 1 Eco drive mode

Suitable for improving the fuel economy, because the torque corresponding to the accelerator pedal depression amount can be generated more smoothly than it is in normal conditions and the operation of the air conditioning system (heating/cooling) will be minimized.

When the "ECO MODE" switch is pressed, the "ECO MODE" indicator comes on in the meter.

#### 2 Power mode

Suitable when the vehicle needs to drive powerfully or travels in mountainous areas.

When the power mode switch is pressed, the "PWR MODE" indicator comes on in the meter.

#### ■ For the shift positions

- When the "POWER" switch is off, the shift position cannot be changed.
- When the "POWER" switch is in ON mode and the "READY" indicator is off, the shift position can only be changed to N.
- When the "READY" indicator is on, the shift position can be changed from P to D. N or R.
- The shift position can only be changed to B directly from D.

In addition, if the shift position is changed in any of the following situations, the buzzer will sound and the shifting operation will be disabled or the shift position will automatically change to N. When this happens, select an appropriate shift position.

- Situations where the shifting operation will be disabled:
  - When the shift lever is changed from P to another position without depressing the brake pedal.
  - When the shift position is changed from P or N to B.
- Situations where the shift position will automatically change to N:
  - When the P position switch is pressed while the vehicle is running.
  - When shift position R is selected when the vehicle is moving forward.
  - When shift position D is selected when the vehicle is moving in reverse.
  - When the shift position is changed from R to B.

#### ■ Reverse warning buzzer

When shifting into R, a buzzer will sound to inform the driver that the shift position is in R.

#### ■ About engine braking

When shift position B is selected, releasing the accelerator pedal will apply engine braking.

- When the vehicle is driven at high speeds, compared to ordinary gasolinefueled vehicles, the engine braking deceleration is felt less than that of other vehicles.
- The vehicle can be accelerated even when shift position B is selected. If the vehicle is driven continuously in the B position, fuel efficiency will become low. Usually, select the D position.

#### ■ Using air conditioning in Eco drive mode

The Eco drive mode controls heating/cooling and fan speed operation to improve fuel consumption. When you want to improve the effectiveness of the air conditioning system, adjust the fan speed or cancel the Eco drive mode.

For more information, refer to the "Navigation System Owner's Manual".

#### ■ Power mode automatic deactivation

Power mode is automatically deactivated if the "POWER" switch is turned off after driving in power mode.

#### ■ Customization

Settings (e.g. Reverse warning buzzer) can be changed. (Customizable features →P. 580)

### **A** CAUTION

#### ■ When driving on slippery road surfaces

Do not accelerate or shift gears suddenly.

Sudden changes in engine braking may cause the vehicle to spin or skid, resulting in an accident.

#### For the shift lever

Do not hang anything on the shift lever.

Doing so could prevent the shift lever from returning to position, causing unexpected accidents to occur when the vehicle is in motion.

## **⚠** NOTICE

#### ■ Situations where P position control system malfunctions are possible

If any of the following situations occurs, P position control system malfunctions are possible.

Immediately stop the vehicle in a safe place on level ground, apply the parking brake, and then contact your Lexus dealer.

- When the "P Lock Malfunction" warning message appears on the multi-information display. (→P. 508)
- When the P position switch indicator flashes.
- When the shift position symbols (such as P and R) are flashing on the shift position indicator.
- When the shift position indicator remains off.

#### ■ When in heavy traffic

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

#### ■ If the vehicle will not shift out of the P position

There is a possibility that the 12-volt battery is discharged. Check the 12-volt battery in this situation.

#### ■ Notes regarding shift lever and P position switch operation

Avoid repeatedly operating the shift lever and P position switch in quick succession. The system protection function may activate and temporarily prevent the vehicle from shifting out of the P position. If this happens, please wait for around 15 seconds before attempting to change the shift position again.

## Turn signal lever

The turn signal lever can be used to show the following intention of the driver:





- Right turn
- 2 Left turn
- Lane change to the right (push and hold the lever partway)

The right hand signals will flash until you release the lever.

Lane change to the left (push and hold the lever partway)

The left hand signals will flash until you release the lever.

- $\blacksquare$  Turn signals can be operated when
  - The "POWER" switch is in ON mode.
- If the indicator flashes 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



To set the parking brake, fully depress the parking brake pedal with your left foot while depressing the brake pedal with your right foot.

(Depressing the pedal again releases the parking brake.)

#### ■ Parking brake engaged warning buzzer

The buzzer sounds to indicate that parking brake is still engaged (with the vehicle having reached a speed of 3 mph [5 km/h]).  $(\rightarrow P. 512)$ 

#### ■ Usage in winter time

See "Winter driving tips" for parking brake usage in winter time.  $(\rightarrow P. 249)$ 

### **⚠** NOTICE

#### Before driving

Fully release the parking brake.

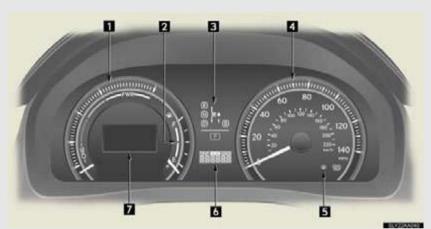
Driving the vehicle with the parking brake set will lead to brake components overheating, which may affect braking performance and increase brake wear.

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

■ After adjusting the steering wheel (manually adjustable type)

Make sure that the steering wheel is securely locked. The horn may not sound if the steering wheel is not securely locked.  $(\rightarrow P. 80)$ 

## Gauges and meters



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

- Hybrid System Indicator

  Hybrid System Indicator displays the system power output and regenerative charging of the hybrid system
- Fuel gauge
  Displays the quantity of fuel remaining in the tank
- Shift position indicator
  Displays the shift position
- Speedometer
  Displays the vehicle speed
- Odometer/trip meter display change button →P. 165

6 Odometer and trip meter display

Odometer: Displays the total distance that the vehicle has been

driven

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 indepen-

dently.

■ Multi-information display

 $\rightarrow$ P. 172

### Changing the display



Switches between odometer and trip meter displays. When the trip meter is displayed, pressing and holding the button will reset the trip meter.

#### Instrument panel light control

The brightness of the instrument panel lights can be adjusted.



- Brighter
- 2 Darker

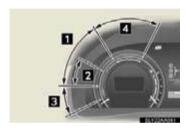
#### Instrument panel brightness adjustment

The instrument panel brightness levels when the tail lights are on and off can be adjusted. However, when the surroundings are bright (daytime, etc.) turning on the tail lights will not change the instrument panel brightness.

#### ■ Limitations of brightness adjustment

The brightness of the instrument panel lights is automatically adjusted based on the light sensor detecting how bright the surroundings are. However, if the instrument panel brightness has been manually set to either the brightest or dimmest setting, the automatic adjustment will not be performed.

#### ■ Hybrid System Indicator



- 1 Eco area Eco Driving Indicator Light turns on
- 2 Hybrid Eco area
  Eco Driving Indicator Light turns on
- Charge area
  Eco Driving Indicator Light turns on
- 4 Power area
  Eco Driving Indicator Light turns off
- By keeping the indicator needle within Eco area, Eco-friendly driving can be achieved.

Hybrid Eco area shows that gasoline engine power is not being used very often.\*1

- Charge area indicates regeneration\*<sup>2</sup> status. Regenerated energy will be used to charge the hybrid battery.
- \*1: The gasoline engine will automatically stop and restart under various conditions.
- \*2: When used in this manual, "regeneration" refers to the conversion of energy created by the movement of the vehicle into electrical energy.

#### Customization

Settings (e.g. Sensitivity of the ambient light sensor used for dimming the meter lights) can be changed. (Customizable features  $\rightarrow$ P. 580)

## **⚠** NOTICE

#### ■ To prevent damage to the hybrid system and its components

A high engine coolant temperature warning light ( $\rightarrow$ P. 498) is installed instead of an engine coolant temperature gauge. If the high engine coolant temperature warning light illuminates or flashes, the vehicle may be overheating. Immediately stop the vehicle in a safe area ( $\rightarrow$ P. 548).

#### 2-2. Instrument cluster

## 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



#### Center panel (without a navigation system)



## Center panel (with a navigation system)



#### Indicators

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



Turn signal indicator  $(\rightarrow P. 161)$ 



"ECO MODE" indicator (→P.157)



Headlight indicator  $(\rightarrow P.186)$ 



"PWR MODE" indicator (→P.157)



Tail light indicator  $(\rightarrow P. 186)$ 



Cruise control indicator  $(\rightarrow P. 204, 208)$ 



Headlight high beam indicator  $(\rightarrow P. 188)$ 



Radar cruise control indicator ( $\rightarrow$ P. 208)



Automatic High Beam indicator (→P. 191)



"LKA" indicator  $(\rightarrow P. 222)$ 



Front fog light indicator  $(\rightarrow P. 197)$ 



"SET" indicator  $(\rightarrow P. 204, 208)$ 



"READY" indicator (→P. 147)



Intuitive parking assist indicator (Refer to "Navigation System Owner's Manual".)



EV drive mode indicator  $(\rightarrow P.152)$ 



"AFS OFF" indicator  $(\rightarrow P.188)$ 



Eco Driving Indicator Light  $(\rightarrow P. 140)$ 



Slip indicator  $(\rightarrow P. 230, 234)$ 



(if equipped)

VSC OFF indicator  $(\rightarrow P. 230)$ 





Shift position indicators  $(\rightarrow P. 155)$ 



SRS airbag on-off indicator ( $\rightarrow$ P. 118)

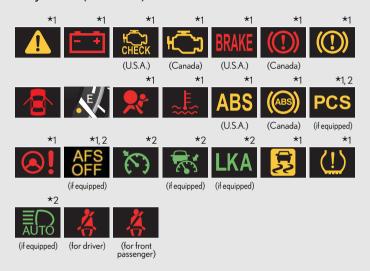
<sup>\*1:</sup> These lights turn on when the "POWER" switch is turned to the ON mode to indicate that a system check is being performed. They will turn off after the hybrid system is on, or after a few seconds. There may be a malfunction in a system if a light does not turn on, or if the lights do not turn off. Have the vehicle inspected by your Lexus dealer.

<sup>\*2:</sup> The light flashes to indicate that the system is operating.

<sup>\*3:</sup> The light turns on when a part of the system is turned off. The light flashes quickly and "BRAKE!" appear on the multi-information display and head-up display (if equipped) to indicate that the system is operating.

#### ■ Warning lights

Warning lights inform the driver of malfunctions in any of the vehicle's systems.  $(\rightarrow P. 498)$ 



<sup>\*1:</sup> 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 turn on, or if the lights do not turn off. Have the vehicle inspected by your Lexus dealer.

### **A** CAUTION

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

Should a safety system light such as the ABS and 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.

<sup>\*2:</sup>The light flashes to indicate a malfunction.

## Multi-information display

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

#### Multi-information switches



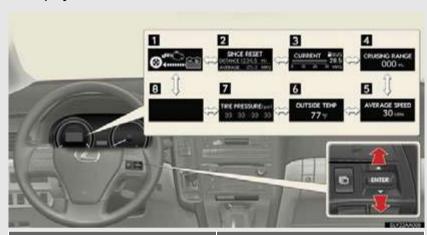
#### Menu switch

Changes modes to electronic feature control mode (if equipped), customization mode or back to normal display mode.

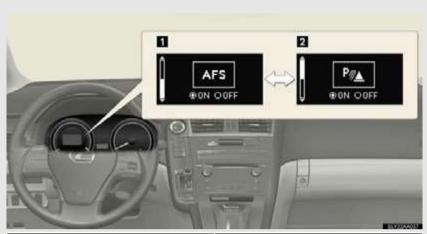
#### 2 "ENTER" switch

Changes trip information items. This switch is also used to turn on/off electronic feature controls and to change customization settings.

## Display contents



Irip intormation contents	Switching display items
1 Energy monitor	
2 Total distance/Total average fuel consumption	
Current fuel consumption/Average fuel consumption after refueling	Press the "ENTER" switch upward or downward.
4 Cruising range	
5 Average vehicle speed	
6 Outside temperature	
7 Tire inflation pressure	
8 Blank	



Electronic feature control contents	Setting electronic feature controls
1 AFS (if equipped)	→P.188
Intuitive parking assist (if equipped)	Refer to "Navigation System Owner's Manual".

Display order may vary depending on vehicle condition.

Other contents	Details
Customization ( $\rightarrow$ P. 580)	Settings of functions such as the door lock and light illumination time can be changed
Dynamic radar cruise control (if equipped) (→P. 208)	Automatically displayed when using the dynamic radar cruise control
LKA (Lane Keeping Assist) (if equipped) ( $\rightarrow$ P. 221)	Automatically displayed when using the lane keeping assist
PCS (Pre-Collision System) (if equipped) (→P. 236, 508, 511)	Automatically displayed if there is a possibility of collision.

Other contents	Details
Warning message ( $\rightarrow$ P. 507)	Automatically displayed when a mal- function occurs in any of the vehi- cle's systems

#### Trip information

#### Energy monitor

Displays the status of the hybrid system ( $\rightarrow$ P. 33)

#### ■ Total distance/Total average fuel consumption

Displays the total distance and average fuel consumption since the last reset.

Press the "ENTER" switch for 1 second or more when the total distance and the average fuel consumption is displayed.

"Past Record" screen on the navigation system (if equipped) will also be reset.  $(\rightarrow P. 37)$ 

## Current fuel consumption/Average fuel consumption after refueling Displays the instant fuel consumption and average fuel consumption after refueling.

#### 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.
- When only a small amount of fuel is added to the tank, the display may not be updated.

#### Average vehicle speed

Displays the average vehicle speed since the function was reset

The function can be reset by pushing the "ENTER" switch for longer than 1 second when the average vehicle speed is displayed.

#### Outside temperature

Displays the outside temperature

#### ■ 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 the inflation pressure has been adjusted.

#### ■ Electronic feature control can be turned on/off when

The "POWER" switch is in ON mode.

#### ■ Conditions for ending electronic feature control

In the following situations, the electronic feature control will end:

- The menu switch is pressed
- The radar cruise control is operated (if equipped)
- The lane keeping assist is operated (if equipped)
- Intuitive parking assist starts operating (if equipped)
- No action is performed for some time after the electronic feature control screen is displayed
- A warning message appears after the electronic feature control screen is displayed

#### Outside temperature display

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

- When stopped, or driving at low speeds (less than 15 mph [25 km/h])
- When the outside temperature has changed suddenly (at the entrance/exit of a garage, tunnel, etc.)

#### ■ When disconnecting and reconnecting battery terminals

The following information will be reset:

- Total distance/Total average fuel consumption
- Average fuel consumption after refueling
- Cruising range
- Average vehicle speed

#### ■ Customization

Settings (e.g. available languages) can be changed. (Customizable features→P. 580)

#### **A** CAUTION

#### Caution while driving

When operating the electronic feature control while driving, take extra notice of the vehicle's surrounding area.

#### 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.

# 2-2. Instrument cluster Head-up display\*

The head-up display can be used to project vehicle speed and other information onto the windshield.



1 Head-up display

Display brightness will change automatically according to the brightness of the surrounding area.

☑ Turn-by-turn navigation switch

Used to turn the turn-by-turn navigation on or off.

- BHUD (Head-up Display) main switch
- 4 HUD (Head-up Display) contrast adjustment switch

Used to adjust the display brightness to the desired level.

**5** HUD (Head-up Display) position adjustment switch

### Head-up display contents

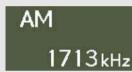
In addition to the vehicle speed display (standard display), the following information will be displayed:

Vehicle speed display (standard display)



Displays the vehicle speed.

Audio display



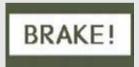
Displays audio information for approximately 3 seconds when the audio system is operated

Dynamic radar cruise control (if equipped)



Displays the approach warning message  $(\rightarrow P. 511)$ 

PCS (Pre-Collision System) (if equipped)



Indicates that there is a possibility of collision.  $(\rightarrow P. 511)$ 

● LKA (Lane Keeping Assist) (if equipped)



Displays a warning message that alerts the driver of a deviation from the lane through use of the lane departure warning function. ( $\rightarrow$ P. 511)

#### ● Turn-by-turn navigation



Displays a notification of upcoming intersections during navigation system route guidance

● Touch tracer display



Displays the switch operation status when the steering switch is operated.

## HUD (Head-up Display) main switch



Pressing the switch turns the headup display on/off and changes the vehicle speed display units as follows:

 $\begin{array}{l} \mbox{Vehicles sold in the U.S.A.} \\ \mbox{OFF} \rightarrow \mbox{ON (mph)} \rightarrow \mbox{ON (km/h)} \\ \rightarrow \mbox{OFF} \end{array}$ 

Except vehicles sold in the U.S.A.  $OFF \rightarrow ON (km/h) \rightarrow ON (mph) \rightarrow OFF$ 

When the head-up display is on, a prolonged press will turn the touch tracer display or audio display ON/OFF. (→P. 184)

# Turn-by-turn navigation switch



Pressing the switch turns the turnby-turn navigation on/off, when the head-up display is on.

The switch indicator illuminates while the turn-by-turn navigation is active.

# Display adjustment

The display position and brightness of the head-up display can be changed when necessary.

# Adjusting display contrast



- Brighter
- 2 Darker

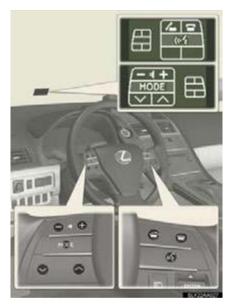
# Adjusting display position



- 11 Higher
- 2 Lower

# Touch tracer display function

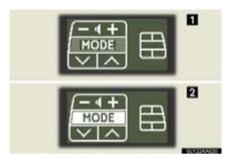
The switch operation is shown on the head-up display when the steering switch provided on the steering wheel is operated. The driver can operate the steering switch without seeing it on the steering wheel.



The display will change in response to steering switch operation.

Touching the steering switch will cause the touch tracer display to appear on the head-up display.

# ■ Touch tracer display

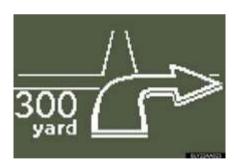


- Only the switch that is being operated is highlighted, and thus, the driver can perceive which button is being operated.
- The applicable switch displayed on the head-up display will change in response to the switch operation.

Taking your finger off the steering switch returns the display to the vehicle speed indication.

It is possible to turn the touch tracer display ON/OFF as necessary.  $(\rightarrow P. 184)$ 

# Turn-by-turn navigation



When the vehicle approaches an intersection, the direction the vehicle should go is guided by the arrow.

When the vehicle approaches an intersection, the route guidance will start and the distance\* to the intersection will also be displayed.

The animation guidance changes according to the vehicle conditions (running or stopped).

\*:The distance decreases in increments of 50 yards and the distance indication will disappear when the vehicle passes through the intersection.

#### Display customization

The touch tracer display and audio display can be hidden (not display) if desired.

#### ■ Touch tracer display



Pressing and holding the HUD (Head-up Display) main switch for more than 2 seconds changes the display to touch tracer display ON/OFF mode. Press the HUD (Head-up Display) main switch to select ON or OFF.

Customization can be performed when the head-up display is on and the vehicle is traveling at less than 5 mph (8 km/h).

# Audio display



With the touch tracer display ON/ OFF selection mode displayed, press and hold HUD (Head-up Display) main switch for more than 2 seconds again to enter audio display ON/OFF selection mode. ON or OFF can be selected by pressing HUD (Head-up Display) main switch

Customization can be performed when the head-up display is on and the vehicle is traveling at less than 5 mph (8 km/h).

#### ■ Brightness of the head-up display

The headlight control sensor detects the brightness of the area surrounding the head-up display and adjusts the brightness accordingly.  $(\rightarrow P. 189)$ 

#### ■ Head-up display

The head-up display may seem dark and hard to see when viewed through sunglasses, especially polarized sunglasses.

Adjust the brightness of the head-up display or remove your sunglasses.

# **A** CAUTION

#### ■ Before using the head-up display

Check that the position and brightness of the head-up display image does not interfere with safe driving. Incorrect adjustment of the image's position or brightness may obstruct the driver's view and lead to an accident, resulting in death or serious injury.

# **⚠** NOTICE

#### ■ To prevent damage to components



- Do not place any drinks near the head-up display projector. If the projector gets wet, electrical malfunctions may result.
- Do not place anything on or put stickers onto the head-up display projector.
   Doing so could interrupt head-up display indications.
- Do not touch the inside of the head-up display projector or thrust sharp edges or the like into the projector.
   Doing so could cause mechanical malfunc-

tions.

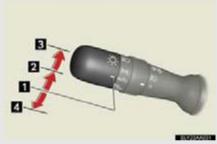
# 2-3. Operating the lights and windshield wipers **Headlight switch**

# The headlights can be operated manually or automatically.

Turning the end of the lever turns on the lights as follows:

#### U.S.A.

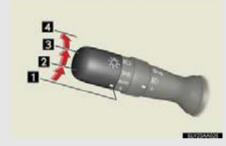




- The headlights, parking lights, daytime running lights and so on turn on and off automatically (when the "POWER" switch is in ON mode).
- The side marker, parking, tail, license plate, daytime running lights and instrument panel lights turn on.
- The headlights and all the lights listed above turn on.
- The daytime running lights turn off.

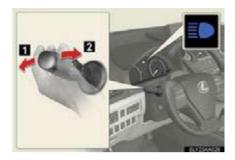
# Canada





- 1 O The daytime running lights turn on.
- The headlights, parking lights, daytime running lights and so on turn on and off automatically (when the "POWER" switch is in ON mode).
- The side marker, parking, tail, license plate, daytime running lights and instrument panel lights turn on.
- The headlights and all the lights listed above turn on.

# Turning on the high beam headlights



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

When the light switch is in position, the Automatic High Beam system will be activated. (→P. 191)

Pull the lever toward you to the center position to turn the high beams off.

Pull the lever toward you and release it to flash the high beams once.

You can flash the high beams with the headlights on or off.

# AFS (Adaptive Front-lighting System) (if equipped)

AFS (Adaptive Front-lighting System) secures excellent 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's angle as controlled by steering input.

AFS operates at speeds of 6 mph (10 km/h) or higher.

# Deactivating AFS



■ Press the menu switch.

The multi-information display will change modes to electronic feature control mode.

Press the "ENTER" switch upwards or downwards until AFS appears.



Press the "ENTER" switch to change to OFF.

The "AFS OFF" indicator will come on.

Each pressing of the switch turns AFS on and off.

Press the menu switch to change to the normal display.

#### ■ 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.

For the U.S.A.: Daytime running lights can be turned off by operating the switch.

 Compared to turning on the headlights, the daytime running light system offers greater durability and consumes less electricity, so it can help improve fuel economy.

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

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

#### ■ Automatic headlight leveling system (if equipped)

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 (if equipped)

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

#### ■ Customization

Settings (e.g. light sensor sensitivity) can be changed. (Customizable features  $\rightarrow$ P. 580)

# **↑** NOTICE

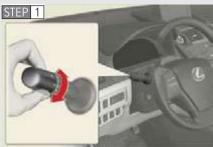
#### ■ To prevent 12-volt battery discharge

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

# 2-3. Operating the lights and windshield wipers Automatic High Beam\*

The Automatic High Beam uses an in-vehicle camera sensor to assess the brightness of streetlights, the lights of oncoming and preceding vehicles, etc., and automatically turns high beam on or off as necessary.

Activating the Automatic High Beam system



Turn the headlight switch to the AUTO position.



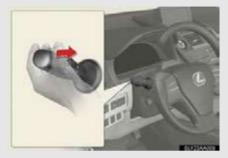


Push the lever away from you.

The Automatic High Beam indicator will come on when the headlights are turned on automatically to indicate that the system is active.

# ■ Turning the high beam on/off manually

# Switching to low beam



Pull the lever to original position.

# Switching to high beam



Turn the light switch to position.



# High beam automatic turning on or off conditions

When all of the following conditions are fulfilled, high beam will be automatically turned on (after approximately 1 second):

- Vehicle speed is above approximately 20 mph (32 km/h).
- The area ahead of the vehicle is dark.
- There are no oncoming or preceding vehicles with headlights or tail lights turned on.

If any of the following conditions are fulfilled, high beam will be automatically turned off:

- Vehicle speed drops below approximately 20 mph (32 km/h).
- The area ahead of the vehicle is not dark.
- Oncoming or preceding vehicles have headlights or tail lights turned on.

# ■ The Automatic High Beam can be operated when

The "POWER" switch is ON mode.

#### Camera sensor detection information.

- High beam may not be automatically turned off in the following situations:
  - When oncoming vehicles suddenly appear from a curve.
  - When the vehicle is cut in front of by another.
- High beam may be turned off if an oncoming vehicle that is using fog lights without using the headlights is detected.
- House lights, street lights, red traffic signals, and illuminated billboards or signs may cause the high beam to turn off.

- The following factors may affect the amount of time taken to turn high beam on or off:
  - The brightness of headlights, fog lights, and tail lights of oncoming and preceding vehicles
  - Road conditions (wetness, ice, snow etc.)
  - The number of passengers and amount of baggage
- High beam may be turned on or off when unexpected by the driver.
- In the situations below, the system may not be able to correctly detect the surrounding brightness levels, and may flash or expose nearby pedestrians to the high beam. Therefore, you should consider turning the high beams on or off manually rather than relying on the Automatic High Beam System.
  - In bad weather (rain, snow, fog, sandstorms etc.)
  - The windshield is obscured by fog, mist, ice, dirt etc.
  - The windshield is cracked or damaged.
  - The inside rear view mirror or camera sensor is deformed or dirty.
  - Surrounding brightness levels are equal to those of headlights, tail lights or fog lights.
  - Vehicles ahead have headlights that are either switched off, dirty, are changing color, or have are not aimed properly.
  - When driving through an area of intermittently changing brightness and darkness
  - When frequently and repeatedly driving ascending/descending roads, or roads with rough, bumpy or uneven surfaces (such as stone-paved roads, gravel tracks etc.)
  - · When frequently and repeatedly taking curves or driving on a winding road
  - There is a highly reflective object ahead of the vehicle, such as a sign or a mirror.
  - The vehicle's headlights are damaged or dirty.
  - The vehicle is listing or tilting, due to a flat tire, a trailer being towed etc.
  - The Automatic High Beam indicator is flashing.
  - The high beam and low beam are repeatedly being switched between in an abnormal manner.
  - The driver believes that the high beam may be causing problems or distress to other drivers or pedestrians nearby.

#### ■ If the Automatic High Beam indicator flashes

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

#### ■ Temporary lowering sensor sensitivity

The sensitivity of the sensor can be temporarily lowered.

To lower the sensitivity, push and hold the "AUTO" button on the inside rear view mirror for 15 to 20 seconds, and release. The indicator light on the inside rear view mirror will flash to indicate that the sensitivity has been lowered.

When the "POWER" switch is turned off, the sensitivity will be returned to its normal level.

#### ■ Customization that can be configured at your Lexus dealer

The Automatic High Beam can be turned off.

# **⚠** NOTICE

#### ■ Limitations of the Automatic High Beam

Do not rely on the Automatic High Beam. Always drive safely, taking care to observe your surroundings and turning high beam on or off manually if necessary.

#### ■ Notes when using the Automatic High Beam system



Observe the following to ensure that the Automatic High Beam functions correctly.

- Do not touch the camera sensor.
- Do not subject the inside rear view mirror or the camera sensor to a strong impact.
- Do not disassemble the camera sensor.
- Do not spill liquid onto the inside rear view mirror or the camera sensor.
- Do not apply window tinting or stickers to the camera sensor or the area of windshield near the camera sensor.
- Do not place items on the dashboard. There is a possibility that the camera sensor will mistake items reflected in the windshield for streetlights, the headlights of other vehicles, etc.
- Do not install a parking tag or any other accessories near or around the inside rear view mirror and the camera sensor.
- Do not overload the vehicle
- Do not modify the vehicle.
- Do not replace windshield with non-genuine windshield.
   Contact your Lexus dealer.

# 2-3. Operating the lights and windshield wipers Fog light switch

The fog lights secure excellent visibility in difficult driving conditions, such as in rain and fog.



- 1 O Turns the front fog lights off
- Turns the front fog lights on



# ■ Fog lights can be used when

The headlights are on in low beam.

# **⚠** NOTICE

# ■ To prevent 12-volt battery discharge

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

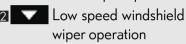
# 2-3. Operating the lights and windshield wipers Windshield wipers and washer

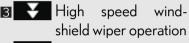
# Intermittent windshield wipers with interval adjuster (if equipped)

The wiper operation is selected as follows by turning the switch ring. When intermittent windshield wiper operation is selected, wiper intervals can be also adjusted.



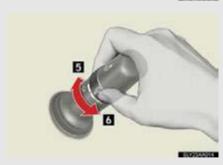












- Increases the intermittent windshield wiper frequency
- **6** Decreases the intermittent windshield wiper frequency



# Washer/wiper dual operation

The wipers will automatically operate a couple of times after the washer squirts.

If the headlights are on, the headlight cleaners will operate once. (→P. 203)

# Rain-sensing windshield wipers (if equipped)

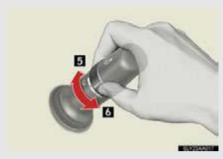
When AUTO is selected, the wipers will operate automatically when the sensor detects falling rain. The system automatically adjusts wiper timing in accordance with rain volume and vehicle speed.

When AUTO is selected, the sensor sensitivity can be adjusted as follows by turning the switch ring:



- 1 AUTO Rain-sensing wiper operation
- Low speed wiper operation
- High speed wiper operation
- 4 A Temporary operation





- 5 Increases the sensitivity
- 6 Decreases the sensitivity



▼ Washer/wiper dual operation

The wipers will automatically operate a couple of times after the washer squirts.

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

If the headlights are on, the headlight cleaners will operate once.  $(\rightarrow P. 203)$ 

- The windshield wipers and washer can be operated when The "POWER" switch is in ON mode.
- Effects of vehicle speed on wiper operation (vehicles with rain-sensing wind-shield wipers)

Even when the wipers are not in AUTO mode, wiper operation varies depending on vehicle speed when the washer is being used (delay until drip prevention wiper sweep occurs).

#### ■ Raindrop sensor (vehicles with rain-sensing windshield wipers)



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.

- If the wiper switch is turned to the AUTO position while the "POWER" switch is in ON mode, the wipers will operate once to show that AUTO mode is activated
- If the temperature of the raindrop sensor is 194°F (90°C) or higher, or 14°F (-10°C) or lower, automatic operation may not occur. In this case, operate the wipers in any mode other than "AUTO".
- If no windshield washer fluid sprays

Check that the washer nozzles are not blocked if there is washer fluid in the washer fluid tank

#### **A** CAUTION

■ Caution regarding the use of windshield wipers in "AUTO" mode (vehicles with rain-sensing windshield wipers)

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 etc. 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

Do not operate the switch continually as the washer fluid pump may overheat.

■ When a nozzle becomes blocked

Do not try to clear it with a pin or other object. The nozzle will be damaged.

■ To prevent 12-volt battery discharge

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

# 2-3. Operating the lights and windshield wipers Headlight cleaner switch\*

# Washer fluid can be sprayed on the headlights.



Press the switch to clean the headlights.

#### ■ The headlight cleaners can be operated when

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

- Windshield washer linked operation
  - When the windshield washer is operated with the "POWER" switch in ON mode and the headlights on, the headlight cleaners will operate once. (→P.198)
  - From the second time the windshield washer is operated, the headlight cleaner will not operate in sync with the windshield washer.
     (Turning the "POWER" switch to OFF or the low beam headlights off resets the headlight cleaner synchronization mode.)

# **⚠** NOTICE

# ■ When the washer fluid tank is empty

Do not press the switch continually as the washer fluid pump may overheat.

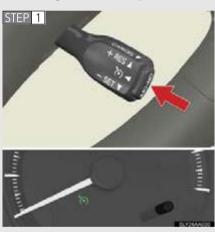
# Cruise control\*

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



- 1 Indicators
- Cruise control switch

■ Setting the vehicle speed



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

Press the button again to deactivate the cruise control.



No ser

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

"SET" indicator will come on.

# Adjusting the set speed

To change the set speed, operate the lever until the desired set speed is obtained.



- 1 Increases the speed
- 2 Decreases the speed

Fine adjustment: Momentarily move the lever in the desired direction.

Large adjustment: Hold the lever in the desired direction.

The set speed will be increased or decreased as follows:

Fine adjustment: By approximately 1 mph (1.6 km/h) each time the lever is operated

Large adjustment: The set speed can be increased or decreased continually until the lever is released.

# Canceling and resuming the constant speed control



■ Pulling the lever toward you cancels the constant speed control.

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

2 Pushing the lever up resumes the constant speed control.

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

#### ■ Cruise control can be set when

- The shift position is in D.
- Vehicle speed is above approximately 25 mph (40 km/h).

# ■ Accelerating

The vehicle can be accelerated normally. After acceleration, the set speed resumes.

#### Automatic cruise control cancellation

Cruise control will stop maintaining the vehicle speed in any of the following situations.

- Actual vehicle speed falls more than approximately 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 (40 km/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.

# **A** CAUTION

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

Switch the cruise control off using the "ON-OFF" button 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 loss of control and could cause an accident resulting in death or serious injury.

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

# Dynamic radar cruise control\*

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



- 1 Indicators
- 2 Display
- 3 Set speed
- 4 Vehicle-to-vehicle distance button
- Cruise control switch

# Setting the vehicle speed (vehicle-to-vehicle distance control mode)



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

Press the button again to deactivate the cruise control.





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

"SET" indicator will come on.





#### Adjusting the set speed

To change the set speed, operate the lever until the desired set speed is displayed.



- Increases the speed
- 2 Decreases the speed

Fine adjustment: Momentarily move the lever in the desired direction.

Large adjustment: Hold the lever in the desired direction.

In the vehicle-to-vehicle distance control mode, the set speed will be increased or decreased as follows:

# When the set speed is shown in "MPH"

Fine adjustment: By approximately 1 mph (1.6 km/h) each time the lever is operated

Large adjustment: By approximately 5 mph (8 km/h) for each 0.75 seconds the lever is held

# When the set speed is shown in "km/h"

Fine adjustment: By approximately 0.6 mph (1 km/h) each time the lever is operated

Large adjustment: By approximately 3.1 mph (5 km/h) for each 0.75 seconds the lever is held

In the constant speed control mode ( $\rightarrow$ P. 214), the set speed will be increased or decreased as follows:

Fine adjustment: By approximately 1 mph (1.6 km/h) each time the lever is operated

Large adjustment: The set speed can be increased or decreased continually until the lever is released.

# Changing the vehicle-to-vehicle distance



Pressing the button changes the vehicle-to-vehicle distance as follows:

- 1 Long
- 2 Medium
- **Short**

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

If a vehicle is running ahead of you, the preceding vehicle mark will also be displayed.

# Canceling and resuming the speed control



Pulling the lever toward you cancels the cruise control.

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

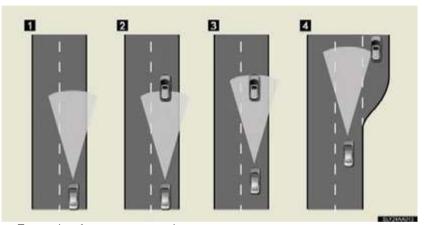
2 Pushing the lever up resumes the cruise control and returns vehicle speed to the set speed.

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

# Driving in vehicle-to-vehicle distance control mode

This mode employs a 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.



■ 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 control.

Example of deceleration cruising When the vehicle ahead is driving slower than the set speed

When a vehicle is detected running ahead of you, 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 when the system cannot decelerate sufficiently to prevent your vehicle from closing in on the vehicle ahead.

# 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 any vehicles ahead driving slower than the set speed.

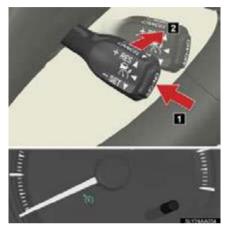
The system accelerates until the set speed is reached. The system then returns to constant speed cruising.

#### 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.

# Selecting conventional constant speed control mode

Dynamic radar cruise control can be used as conventional cruise control if you select constant speed control mode.



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

Press the button again to deactivate the cruise control.

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

Switch to constant speed control mode.

(Push the lever forward and hold for approximately one second.)

Constant speed control mode indicator will come on.

Adjusting the speed setting: →P. 210

Canceling and resuming the speed setting:  $\rightarrow$ P. 211

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

- The shift position is in D.
- Vehicle speed is above approximately 30 mph (50 km/h).

#### ■ 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.

#### ■ Accelerating

The vehicle can be accelerated normally. After acceleration, the set speed resume. However, during vehicle-to-vehicle distance control mode, the vehicle speed may decrease below the set speed in order to maintain the distance to the vehicle ahead.

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

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

- Actual vehicle speed falls below approximately 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.

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 cancellation of constant speed control

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

- Actual vehicle speed is more than approximately 10 mph (16 km/h) below the set vehicle speed.
  - At this time, the memorized set speed is not retained.
- Vehicle speed falls below approximately 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 160 ft. (50 m)
Medium	Approximately 130 ft. (40 m)
Short	Approximately 100 ft. (30 m)

#### ■ Radar sensor and grille cover

Always keep the sensor and grille cover clean to ensure that the vehicle-to-vehicle distance control operates properly. (Some obstructions, such as snow, ice and plastic objects, cannot be detected by the obstruction sensor.)

Dynamic radar cruise control is canceled if an obstruction is detected.



- 1 Grille cover
- 2 Radar sensor

#### ■ Warning lights, messages and buzzers for dynamic radar cruise control

Warning lights, messages and buzzers are used to indicate a system malfunction or to inform the driver of the need for caution while driving.  $(\rightarrow P. 499, 508, 511)$ 

# ■ 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 speed
- When the vehicle ahead is traveling at an extremely slow speed
- Immediately after the cruise control speed was set
- At the instant the accelerator is applied

#### ■ Certification

#### For vehicles sold in the U.S.A.

#### FCC ID: HYODNMWR004

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.

Radiofrequency radiation exposure Information:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

This equipment should be installed and operated with minimum distance of 20 cm between the radiator (antenna) and your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

#### For vehicles sold in Canada

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

## **A** CAUTION

## Before using dynamic radar cruise control

Do not overly rely on vehicle-to-vehicle distance control.

Be aware of the set 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.

## Cautions regarding the driving assist systems

Observe the following precautions.

Failure to do so may cause an accident resulting in death or serious injury.

- Assisting the driver to measure following distance The dynamic radar cruise control is only intended to help the driver in determining the following distance between the driver's own vehicle and a designated vehicle traveling ahead. It is not a mechanism that allows careless or inattentive driving, and it is not a system that can assist the driver in low-visibility conditions. It is still necessary for driver to pay close attention to the vehicle's surroundings.
- Assisting the driver to judge proper following distance The dynamic radar cruise control determines whether the following distance between the driver's own vehicle and a designated vehicle traveling ahead is appropriate or not. It is not capable of making any other type of judgement. Therefore, it is absolutely necessary for the driver to remain vigilant and to determine whether or not there is a possibility of danger in any given situation.
- Assisting the driver to operate the vehicle The dynamic radar cruise control has no capability to prevent or avoid a collision with a vehicle traveling ahead. Therefore, if there is ever any danger, the driver must take immediate and direct control of the vehicle and act appropriately in order to ensure the safety of all involved.
- To avoid inadvertent cruise control activation

Switch the cruise control off using the "ON-OFF" button when not in use.

## ■ 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 an accident resulting in death or serious injury.

- In heavy traffic
- On roads with sharp bends
- On winding roads
- On slippery roads, such as those covered with rain, ice and 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 an approach warning buzzer is heard often

## ■ When the 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 ( $\rightarrow$ P. 213) will not be activated, and a fatal or serious 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

## 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 a fatal or serious accident may result:

- When water or snow thrown up by the surrounding vehicles hinders the functioning of the 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

## ■ Handling the radar sensor

Observe the following to ensure the cruise control system can function effectively.

Otherwise, the system may not function correctly and could result in an accident.

- Keep the sensor and front grille cover clean at all times. Clean the sensor and front grille cover 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 cover or surrounding area.
- Do not modify or paint the sensor and grille cover.
- Do not replace them with non-genuine parts.

While driving on a freeway or motor highway that has lane markers, this system recognizes the lanes using a camera as a sensor to assist the driver with staying in the lane. The LKA system has two functions.

## ■ Lane departure warning function

If the system judges that the vehicle may deviate from its lane, it alerts the driver using rapid beeping, indications on the multi-information display, and a sensory warning \* given via the steering wheel.

\*: A slight steering torque is applied for a short period of time in the direction of the center of the lane.

## Lane keeping assist function

This function will be active when the vehicle-to-vehicle distance control mode of the cruise control ( $\rightarrow$ P. 208) is set with vehicle speed above approx. 45 mph (approx. 72 km/h) and while the lane departure warning function is active. When the lane keeping assist function is active, a slight steering torque will be applied, to help the driver maintain the vehicle inside the lane.

## ■ Turning the LKA system on

The lane departure warning function and lane keeping assist function will be activated depending on the recognition condition of lane markers, vehicle speed and the setting of radar cruise control (vehicle-to-vehicle distance control mode).



Press the "LKA" switch to activate the system.

"LKA" indicator will come on.

Press the switch again to turn the LKA system off.

# Operating conditions for each function

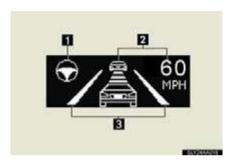
"LKA" switch	Cruise control (vehicle-to-vehicle distance control mode)	Lane departure warning function <sup>*1</sup>	Lane keeping assist function*2
	Off	Available	Not available
On	On (While cruising in vehicle-to-vehicle distance control mode with the set vehicle speed approx. 44 mph [approx. 71 km/h] or less)	Available	Not available
	On (While cruising in vehicle-to-vehicle distance control mode with the set vehicle speed approx. 45 mph [approx. 72 km/h] or more)	Available	Available

<sup>\*1:</sup> Vehicle speed is between about 30 and 125 mph (48 and 200 km/h)

 $<sup>^{\</sup>star2}$ : Vehicle speed is between about 45 and 112 mph (72 and 180 km/h).

## Indication on the multi-information display

While the LKA system is on, the lane line display and steering wheel display (in case of lane keeping assist function) are shown on the multi-information display to inform that the LKA system is on.



## Steering wheel display

The lane keeping assist function is active.

- Dynamic radar cruise control display
- 3 Lane line display

When thin lines are shown:

A lane marker is not recognized by the system, or the LKA system functions are temporarily canceled

When solid lane lines are shown: The lane departure warning function is active.

## ■ Temporary cancellation of the LKA system functions

If any of the following occurs, the LKA system functions will be temporarily canceled. The functions will resume after the necessary operating conditions have returned.

- The turn signal lever is operated.
- The steering wheel is turned as far as necessary to cause the vehicle to change lanes.
- The brake pedal is depressed. However, the lane keeping assist function will not resume even after the brake pedal is released because depressing the brake pedal also cancels the dynamic radar cruise control. (only lane departure warning function will resume)
- The vehicle speed deviates from the operating range of the LKA system functions.

- When the lane lines cannot be recognized while driving.
- The wiper switch is set on "LO" or "HI" mode or is set on "AUTO" mode with wipers operating at low or high speed.
- The no-handed driving warning activates while the lane keeping assist function is active. (The buzzer will beep twice.)
- When the lane departure warning function is activated.
   Once the lane departure warning function is activated, it will be temporarily canceled and resume a few seconds later.

### ■ No-handed driving warning

If the steering wheel is not operated for about 15 seconds on a straight road or about 5 seconds on a curve, the buzzer will beep twice, indicators on the multi-information display will flash, and the lane keeping assist function will be temporarily canceled. If you drive the vehicle with your hands lightly touching the steering wheel, this may also be detected as no-handed driving.

#### ■ When the vehicle has been parked in the sun

The LKA system functions may not be available for a while after driving has started. In such cases, turn the LKA system off and turn it on again after normal temperature returns. When the temperature in the cabin decreases and the temperature around the camera sensor becomes suitable for its operation, the functions will begin to operate.

## ■ Warning lights and messages for LKA

Warning lights and messages are used to indicate a system malfunction or to inform the driver of the need for caution while driving.  $(\rightarrow P. 499, 511)$ 

#### ■ Before using the LKA system

Do not rely on the LKA system to remain within a selected lane. The LKA system is not designed to enable inattentive driving. The steering wheel should be operated by the driver to maintain the vehicle in a suitable position within its lane. Always drive carefully.

## ■ Turn the LKA off while driving in any of the following conditions:

Do not use LKA in any of the following situations.

Otherwise, the system may not function correctly and could result in an accident.

- When driving with snow tires, tire chains, a spare tire, or similar equipment.
- When driving with non-standard parts or aftermarket equipment installed. (including modified tires and suspensions, etc.)
- When towing a trailer.
- When there are objects or structures along the roadside that might be misinterpreted as lane markers, (such as quardrails, curb, reflector posts, etc.)
- When there are wheel ruts, icy trademarks, etc. or if snow remains on the road surface
- When there are shadows on the road running parallel with lane markers, or if a shadow covers the lane markers.
- When there are visible lines on the pavement from road repairs, or if the remains of old lane markers are still visible on the road.
- When driving on slippery roads, such as those covered with rain, ice or snow.
- When driving in a lane other than the driving or passing lanes on a freeway or highway.
- When driving on a road with lane closures due to maintenance, or when driving in a temporary lane.
- When driving on winding roads or roads that are rough or uneven.

# **M** NOTICE

- In the following situations, the LKA will not work, or will not perform reliably:
  - When lane markers are interrupted or are not present, such as before a tollbooth.
  - When lane markers are only on one side of the road.
  - When driving on a sharp curve.
  - When lanes are extremely narrow or extremely wide.
  - When the vehicle leans to one side an unusual amount due to a heavy load or improper tire inflation pressure.
  - When the following distance between your vehicle and the vehicle ahead is extremely short.
  - When the lane markers are broken, "Botts' dots", or "Raised pavement marker".
  - When lane markers are obscured or partially obscured by sand, dirt, etc.
  - When driving on a particularly bright road surface, such as concrete.
  - When driving on a road surface that is bright due to reflected light.
  - When driving in a location where the light level changes rapidly, such as the entrance to or exit from a tunnel.
  - When sunlight or the headlights of oncoming vehicles are shining directly into the camera lens.
  - When driving on roads that are branching or merging.
  - When pavement lane markers are difficult to see due to rain, snow, fog, etc.
  - When driving on a road surface that is wet due to rain, previous rainfall, standing water, etc.
  - When the vehicle experiences strong up-and-down motion such as when driving on an extremely rough road or on a seam in the pavement.
  - When headlight brightness is reduced due to dirt on the lenses, or when the headlights are misaligned.
  - When driving with a strong crosswind.

# **⚠** NOTICE

#### ■ Camera sensor



Observe the following to ensure that the LKA system functions correctly.

- Keep the windshield clean at all times.
   LKA performance may deteriorate due to the presence of raindrops, condensation, ice or snow on the windshield.
- Do not attach a sticker or other items to the windshield near the camera sensor.
- When adjusting the rear view mirror, make sure that it does not block the camera lens.
- 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.
   The camera sensor may recognize the image reflected on the windshield as lane markers by mistake.
- Do not scratch the camera lens, or let it get dirty.
- Do not change the installation position of the camera sensor or remove it. The direction of the camera sensor is precisely adjusted.
- Do not subject the camera sensor to strong impact or force, and do not disassemble the camera sensor.

# **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

### 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)

Helps to maintain drive power and prevent the drive wheels from spinning when starting the vehicle or accelerating on slippery roads

## ■ EPS (Electric Power Steering)

Employs an electric motor to reduce the amount of effort needed to turn the steering wheel

## ■ Enhanced VSC (Enhanced vehicle stability control)

Provides cooperative control of the ABS, TRAC, VSC and EPS. Helps to maintain directional stability when swerving on slippery road surfaces by controlling steering performance.

## PCS (Pre-Collision System) (if equipped)

 $\rightarrow$ P. 236

## When the VSC/TRAC systems are operating



If the vehicle is in danger of slipping or if any of the drive wheels spins, the slip indicator light flashes to indicate that the VSC/TRAC systems are operating.

A buzzer (intermittent) sounds to indicate that VSC is operating.

## Disabling the TRAC/VSC systems

If the vehicle gets stuck in fresh snow or mud, the TRAC and VSC systems 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 the TRAC system only



To turn the TRAC system off, quickly press and release the button.

A message will be shown on the multi-information display.

Press the button again to turn the system back on.

## ■ Turning off both TRAC and VSC systems



To turn the TRAC and VSC systems off, press and hold the button for more than 3 seconds while the vehicle is stopped.

A message will be shown on the multi-information display and "VSC OFF" indicator will come on.

Press the button again to turn the systems back on.

#### ■ Sounds and vibrations caused by the ABS, brake assist, VSC and TRAC

- A sound may be heard from the engine compartment when the hybrid system is started, just after the vehicle begins to move, if the brake pedal is depressed forcefully or repeatedly, or 1-2 minutes after the hybrid system is stopped. This sound does not indicate that a malfunction has occurred in any of these systems.
- Any of the following conditions may occur when the above systems are operating. None of these indicates that a malfunction has occurred.
  - Vibrations may be felt through the vehicle body and steering.
  - A motor sound may be heard after the vehicle comes to a stop.
  - The brake pedal may pulsate slightly after the ABS is activated.
  - The brake pedal may move down slightly after the ABS is activated.

## ■ EPS operation sound

When the steering wheel is operated, a motor sound (whirring sound) may be heard. This does not indicate a malfunction.

## ■ Reactivation of the TRAC /VSC systems

Turning off the hybrid system after turning off the TRAC/VSC systems will automatically reactivate them.

## ■ Reactivation of the TRAC system linked to vehicle speed

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

#### ■ Reduced effectiveness of the EPS system

The effectiveness of the EPS system 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 EPS system should return to normal within 10 minutes.

## **A** CAUTION

### ■The ABS does not operate effectively when

- Tires with inadequate gripping ability are used (such as excessively worn tires on a snow covered road).
- The vehicle hydroplanes while driving at high speed on 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 surfaces

## ■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.

#### ■ 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 the TRAC/VSC systems are turned off

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

#### ■ Replacing tires

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

The ABS and VSC systems will not function correctly if different tires are installed on the vehicle.

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

### ■ Handling of tires and the suspension

Using tires with any kind of problem or modifying the suspension will affect the driving assist systems, and may cause a system to malfunction.

### Hill-start assist control

Hill-start assist control helps to prevent the vehicle from rolling backwards when starting on an incline or slippery slope.



To engage hill-start assist control, further depress the brake pedal when the vehicle is stopped completely.

A buzzer will sound once to indicate the system is activated. The slip indicator will also start flashing.

#### ■ Hill-start assist control can be operated when

- The shift position is in a position other than P.
- The parking brake is not applied.
- The accelerator pedal is not depressed.

#### ■ Hill-start assist control

- While hill-start assist control is operating, the brakes remain automatically applied after the driver releases the brake pedal. The stop lights and the high mounted stoplight turn on.
- Hill-start assist control operates for about 2 seconds after the brake pedal is released.
- If the slip indicator does not flash and the buzzer does not sound when the brake pedal is further depressed, slightly reduce the pressure on the brake pedal (do not allow the vehicle to roll backward) and then firmly depress it again. If the system still does not operate, check if the operating conditions explained above have been met.

#### ■ Hill-start assist control buzzer

- When hill-start assist control is activated, the buzzer will sound once.
- In the following situations, hill-start assist control will be canceled and the buzzer will sound twice.
  - No attempt is made to drive the vehicle within approximately 2 seconds of releasing the brake pedal.
  - Push the P position switch.
  - The parking brake is applied.
  - The brake pedal is depressed again.
  - The brake pedal has been depressed for more than approximately 3 minutes.

#### ■ If the slip indicator comes on

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

## **A** CAUTION

#### ■ Hill-start assist control

- Do not overly rely on hill-start assist control. Hill-start assist control may not operate effectively on extremely steep inclines or roads covered in ice.
- Unlike the parking brake, hill-start assist control is not intended to hold the vehicle stationary for an extended period of time. Do not attempt to use hill-start assist control to hold the vehicle on an incline for an extended period of time, as doing so may lead to an accident.

## **Pre-Collision System**<sup>3</sup>

When the radar sensor detects possibility of a frontal collision, the pre-collision system such as the brakes and seat belts are automatically engaged to lessen impact and injuries to occupants as well as vehicle damage.

## Pre-collision seat belts (front seat belts only)

If the pre-collision sensor detects that a collision is unavoidable, the pre-collision system will retract the seat belt before the collision occurs. The same will happen if the driver makes an emergency braking or loses control of the vehicle.  $(\rightarrow P.75)$ 

However, when the VSC system is disabled, the system will not operate in the event of skidding.

#### 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 switch.

\*: When the pre-collision braking system activates, "BRAKE!" will appear on the multi-information display and head-up display (if equipped), and the warning light will begin flashing rapidly. (\( \rightarrow P. 514 \))

## Driver monitor system (if equipped)

When the system determines that there is a possibility of a frontal collision, and the driver is not facing forward, PCS warnings are given in advance to warn the driver. If the driver continues to be not facing forward, and a high possibility of a frontal collision is detected, PCS informs the driver of high possibility of a frontal collision by performing slight braking to provide a physically warning (pre-collision alert braking). ( $\rightarrow$ P. 238)

## Disabling pre-collision braking



- 1 Pre-collision braking disabled
- Pre-collision braking enabled The "PCS" warning light will turn on when pre-collision braking is disabled.

## Radar sensor



The 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.

For vehicles equipped with the lane keeping assist, in addition to the radar sensor, the vehicle uses a lane recognition camera in order to determine whether or not a collision is likely to occur. (→P. 228)

## Driver monitor sensor (if equipped)



The driver monitor sensor detects the direction the driver is facing. The system determines whether the driver is facing forward.

#### ■ The pre-collision seat belts are operational when

Pre-collision seat belts will activate in the following situations.

- Situation 1.
  - Vehicle speed is greater than 19 mph (30 km/h).
  - The system detects sudden braking or skidding.
  - The front occupants are wearing a seat belt.
- Situation 2.
  - Vehicle speed is greater than 4 mph (5 km/h).
  - The speed at which your vehicle is approaching the obstacle or oncoming vehicle is greater than 19 mph (30 km/h).
  - The front occupants are wearing a seat belt.

## ■ The pre-collision systems (other than seat belts) are operational when

- Pre-collision brake assist:
  - Vehicle speed is greater than 19 mph (30 km/h).
  - The speed at which your vehicle is approaching the obstacle or the vehicle running ahead of you is greater than 19 mph (30 km/h).
  - The brake pedal is depressed.
- Pre-collision braking:
  - The pre-collision braking off switch is not pressed.
  - Vehicle speed is greater than 10 mph (15 km/h).
  - The speed at which your vehicle is approaching the obstacle or the vehicle running ahead of you is greater than 10 mph (15 km/h).

- Pre-collision alert braking (vehicle with driver monitor system):
  - The pre-collision braking off switch is not pressed.
  - The system determines that the driver is not facing forward.
  - Vehicle speed is greater than 10 mph (15 km/h).
  - The speed at which your vehicle is approaching the obstacle or the vehicle running ahead of you is greater than 25 mph (40 km/h).

## Conditions that may trigger the system even if there is no possibility of a 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 (nose up, nose down)
- When passing an oncoming vehicle on a left-turn
- When your vehicle rapidly closes on the vehicle in front
- When a grade separation/interchange, sign, billboard, or other structure appears to be directly in the vehicle's line of travel
- When climbing a steep hill causes an overhead billboard or other metallic structure to appear directly in the vehicle's line of travel
- When a railing, bar, or similar object can be seen in front of the vehicle
- When the radar sensor is out of alignment ( $\rightarrow$ P. 243)

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.

- Situations in which the pre-collision system does not function properly The system may not function effectively in situations such as the following:
  - On roads with sharp bends or uneven surfaces
  - On slippery roads such as those covered with ice or snow
  - If a vehicle suddenly moves in front of your vehicle, such as at an intersection
  - If a vehicle suddenly cuts in front of your vehicle, such as when overtaking
  - In inclement weather such as heavy rain, fog, snow or sand storms
  - When your vehicle is skidding with the VSC system off
  - When the radar sensor is out of alignment ( $\rightarrow$ P. 243)

#### ■ Automatic cancellation of the pre-collision system

When a malfunction occurs due to sensor contamination, etc. that results in the sensors being unable to detect obstacles, the pre-collision system will be automatically disabled. In this case, the system will not activate even if there is a collision possibility.

#### Obstacles not detected

The sensor cannot detect plastic obstacles such as traffic cones. There may also be occasions when the sensor cannot detect pedestrians, animals, bicycles, motorcycles, trees, or snowdrifts.

## ■ If the PCS warning light turns on or flashes

- If the PCS warning light begins flashing and "CHECK PCS SYSTEM" appears on the multi-information display, this indicates a malfunction in the pre-collision system. ( $\rightarrow$ P. 508)
- If the PCS warning light turns on and "PCS TEMPORARILY NOT AVAILABLE" appears on the multi-information display, this indicates that the grille or radar sensor is dirty. ( $\rightarrow$ P. 513)

#### ■ Certification

#### For vehicles sold in the U.S.A.

#### FCC ID: HYQDNMWR004

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.

Radiofrequency radiation exposure Information:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

This equipment should be installed and operated with minimum distance of 20 cm between the radiator (antenna) and your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

#### For vehicles sold in Canada

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

#### Limitations of the pre-collision system

Do not overly rely on the pre-collision system. Always drive safely, taking care to observe your surroundings and checking for any obstacles or other road hazards. Failure to do so may cause an accident resulting in death or serious injury.

### Cautions regarding the assist contents of the system

By means of alarms and brake control, the pre-collision system is intended to assist the driver in avoiding collisions through the process of LOOK-JUDGE-ACT. There are limits to the degree of assistance the system can provide, so please keep in mind the following important points.

- Assisting the driver in watching the road The pre-collision system is only able to detect obstacles directly in front of the vehicle, and only within a limited range. It is not a mechanism that allows careless or inattentive driving, and it is not a system that can assist the driver in low-visibility conditions. It is still necessary for the driver to pay close attention to the vehicle's surroundinas.
- Assisting the driver in making correct judgment When attempting to estimate the possibility of a frontal collision, the only data available to the pre-collision system is that from obstacles it has detected directly in front of the vehicle. Therefore, it is absolutely necessary for the driver to remain vigilant and to determine whether or not there is a possibility of collision in any given situation.
- Assisting the driver in taking action The pre-collision system's braking assist feature is designed to help reduce the severity of a collision, and so only acts when the system has judged that a collision is unavoidable. This system by itself is not capable of automatically avoiding a collision or bringing the vehicle to a stop safely. For this reason, when encountering a dangerous situation the driver must take direct and immediate action in order to ensure the safety of all involved.

### ■ When the sensor may not be correctly detecting the vehicle ahead

Apply the brakes as necessary in any of the following situations.

- When water or snow thrown up by the surrounding vehicles hinders the functioning of the sensor
- When your vehicle is pointing upwards (caused by a heavy load in the luggage compartment etc.)
- Vehicles that cut in suddenly
- Vehicles with small rear ends (trailers with no load on board etc.)
- Motorcycles traveling in the same lane

### ■ Handling the radar sensor

Observe the following to ensure the pre-collision system can function effectively:

- Keep the sensor and front grille cover clean at all times.
   Clean the sensor and front grille cover 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 become inaccurate or malfunction. If the sensor or surrounding area is subject to a strong impact, always have the area inspected and adjusted by your Lexus dealer.
- Do not disassemble the sensor.
- Do not attach accessories or stickers to the sensor, grille cover or surrounding area.
- Do not modify or paint the sensor and grille cover.
- Determining the direction the driver is facing (vehicles with driver monitor sensor)

The direction the driver is facing may not be determined correctly if 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.

■ Handling the driver monitor sensor (vehicles with 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, resulting in an unexpected accident.

- 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.



#### ∧ NOTICE

- Precautions for cleaning the driver monitor sensor (vehicles with 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 wrung 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.
- To maintain vehicle balance while driving, position luggage evenly within the luggage compartment.
- For better fuel economy, do not carry unnecessary weight.

## Capacity and distribution

Cargo capacity depends on the total weight of the occupants.

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

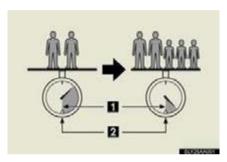
## Steps for Determining Correct Load Limit—

- (1) Locate the statement "The combined weight of occupants and cargo should never exceed XXX kg or XXX lbs." on your vehicle's placard.
- (2) Determine the combined weight of the driver and passengers that will be riding in your vehicle.
- (3) Subtract the combined weight of the driver and passengers from XXX kg or XXX lbs.
- (4)The resulting figure equals the available amount of cargo and luggage load capacity.
  - For example, if the "XXX" amount equals 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.  $(1400-750~(5\times150)=650~\text{lbs.})$
- (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. (→P. 248)

Lexus does not recommend towing a trailer with your vehicle. Your vehicle is not designed for trailer towing.

## Example based on your vehicle



- Cargo capacity
- Total load capacity

When 2 people with the combined weight of 366 lb. (166 kg) are riding in your vehicle, which has a total load capacity of 825 lb. (375 kg), the available amount of cargo and luggage load capacity will be as follows:

In this condition, if 3 more passengers with the combined weight of 388 lb. (176 kg) get on, the available cargo and luggage load will be reduced as follows:

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.

### ■ 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

Observe the following precautions.

Failing to do so may result in death or serious injury.

- Stow cargo and luggage in the trunk whenever possible.
- Do not place cargo or luggage in or on the following locations as the item may get under the brake or accelerator pedal and prevent the pedals from being depressed properly, block the driver's vision, or hit the driver or passengers, causing an accident:
  - · At the feet of the driver
  - On the front passenger or rear seats (when stacking items)
  - On the package tray
  - On the instrument panel
  - · On the dashboard
- Secure all items in the occupant compartment, as they may shift and injure someone during sudden braking, sudden swerving or an accident.

## 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: 825 lb. (375 kg)

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

## Seating capacity: 5 occupants (Front 2, Rear 3)

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.  $(\to P. 451)$ 

## **A** 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.

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 the vehicle fitted with four snow tires or purchase a set of tire chains for the front 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

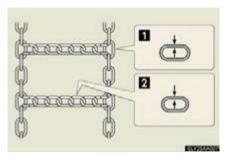
Accelerate the vehicle slowly and drive at a reduced speed suitable to the road conditions.

## When parking the vehicle

Park the vehicle and push the P position switch without setting the parking brake. The parking brake may freeze up, preventing it from being released. If necessary, block the wheels to prevent inadvertent sliding or creeping.

## Selecting tire chains

Use the correct tire chain size when mounting the tire chains. Chain size is regulated for each tire size.



Side chain:

- 10.12 in. (3 mm) in diameter Cross chain:
- **2** 0.16 in. (4 mm) in diameter

## Regulations on the use of tire chains

Regulations regarding the use of tire chains vary depending on location and type of road. Always check local regulations before installing chains.

#### ■ Tire 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 front tires only. Do not install tire chains on the rear tires.
- Install tire chains on front tires as tightly as possible. Retighten chains after driving 1/4 1/2 mile (0.5 1.0 km).
- Install tire chains following the instructions provided with the tire chains.

#### 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.
- 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 tire 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 or 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 pressure warning valves and transmitters.

## Fitting tire chains

The tire pressure warning valves and transmitters 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 vehicle is not designed for trailer towing or for the use of tow hitch mounted carriers.



Your vehicle is not designed to be dingly 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 the four wheels on the ground.

Interior features

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Interior features

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

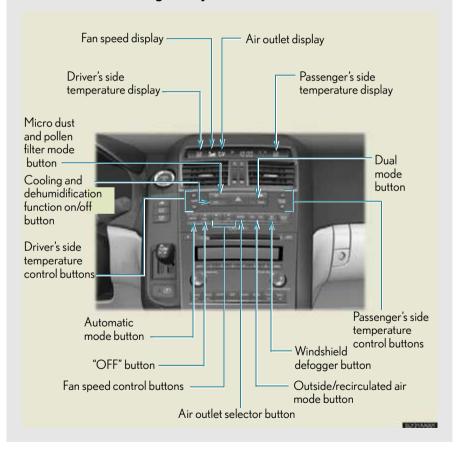
### Automatic air conditioning system

Air outlets and fan speed are automatically adjusted according to the temperature setting.

### Vehicles with a navigation system

Owners of models equipped with a navigation system should refer to the "Navigation System Owner's Manual".

### Vehicles without a navigation system



### Using automatic air conditioning system





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





to increase the temperature and " $\vee$  " to

decrease the temperature.

When is pressed (the indicator on is on) or the passenger's side temperature control button is pressed, the temperature for the driver and passenger seats can be adjusted separately.

### Adjusting the settings manually

### ■ Basic setting

STEP 1 To turn on the air conditioning system and adjust the fan speed,

press " $\wedge$ " on to increase the fan speed and " $\vee$ " on decrease the fan speed.

Press off to turn the fan off.

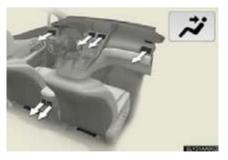
STEP 2 To adjust the temperature setting, press " $\land$ " on to increase

the temperature and "\" to decrease the temperature.

When is pressed (the indicator on is on) or the passenger's side temperature control button is pressed, the temperature for the driver and passenger seats can be adjusted separately.

STEP 3 To change the air outlets, press MODE

The air outlets used are switched each time the button is pressed. The air flow shown on the display indicates the following:



Air flows to the upper body.



Air flows to the upper body and feet.



Air flows mainly to the feet.



Air flows to the feet and the windshield defogger operates.

### ■ Switching between outside air and recirculated air modes



The mode switches between (recirculated air mode) and (outside air mode) modes each time the button is pressed.

### Defogging the windshield



#### Defogging

The air conditioning system operates automatically.

Recirculated air mode will automatically switch to outside air mode. It is not possible to return to recirculated air mode when the switch is on.

### Micro dust and pollen filter mode button



Operates micro dust and pollen filter on/off.

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.

### Adjusting the position of and opening and closing the air outlets

#### Front center outlets



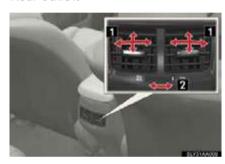
- Direct air flow to the left or right, up or down.
- Turn the knob to open or close the vent.

#### Front side outlets



- Direct air flow to the left or right, up or down.
- 2 Turn the knob to open or close the vent.

#### Rear outlets



- Direct air flow to the left or right, up or down.
- Turn the knob to open or close the vent.

#### ■ Air conditioning system settings

When the "POWER" switch is turned on, the air conditioning system settings will be set to those that were in use the last time the "POWER" switch was turned off.

- Air conditioning system settings are memorized individually on each electronic key, so the settings reproduced will be specific to the key that is used.
- This feature is customizable at your Lexus dealer.

#### ■ Using automatic mode

Fan speed is adjusted automatically according to 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 when the ambient temperature is high.
- Immediately after the button 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 recirculated air mode is used.

#### ■ Window defogger feature

Recirculated air mode may automatically switch to (outside air) mode in situations where the windows need to be defogged.

#### ■ When micro dust and pollen filter is active

- In order to prevent the windshield from fogging up when the outside air is cold, the following may occur:
  - Outside air mode does not switch to (recirculated air) mode.
  - The air conditioning system operates automatically.
  - The operation cancels after 1 minute.
- In rainy weather, the windows may fog up. Press

### ■ When outside air temperature is below 32°F (0°C)

The cooling and dehumidification function may not operate even when is pressed.

### ■ Air conditioning odors

- During use, various odors from inside and outside the vehicle may enter into and accumulate in the air conditioning system. This may then cause odor to be emitted from the vents.
- To reduce potential odors from occurring:
  - It is recommended that the air conditioning system be set to outside air mode prior to turning the vehicle off.
  - The start timing of the blower may be delayed for a short period of time immediately after the air conditioning system is started in automatic mode.

### **A** CAUTION

#### ■ To prevent the windshield from fogging up

Do not use during cool air operation in extremely humid weather. The dif-

ference 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 12-volt battery discharge

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

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

Defoggers are used to defog the rear window, and to remove raindrops, dew and frost from the outside rear view mirrors.



Turns the rear window and outside rear view mirror defoggers on/off

The defoggers will automatically turn off after 15 minutes

#### ■ Operating conditions

The "POWFR" switch is in ON mode.

#### ■ The outside rear view mirror defoggers

Turning the rear window defogger on will turn the outside rear view mirror defoggers on.

#### **A** 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.

# 3-1. Using the air conditioning system and defogger Windshield wiper de-icer\*

This feature is used to prevent ice from building up on the windshield and wiper blades.



Turns the windshield wiper deicer on/off

The windshield wiper de-icer will automatically turn off after approximately 15 minutes.

### Operating conditions

The "POWER" switch is in ON mode.

### **A** CAUTION

### ■ When the windshield wiper de-icer is on

Do not touch the lower part of the windshield or the side of the front pillars, as the surfaces can become very hot and burn you.

### 3-2. Using the audio system

### **Audio system**

### Vehicles without a navigation system:

CD player with a changer and AM/FM radio

### Vehicles with a navigation system:

Owners of models equipped with a navigation system should refer to the "Navigation System Owner's Manual".



Title	Page
Using the radio	P. 269
Using the CD player	P. 277
Playing MP3 and WMA discs	P. 285
Operating an iPod	P. 292
Operating a USB memory	P. 300
Optimal use of the audio system	P. 308
Using the AUX port	P. 311
Using the steering wheel audio switches	P. 312

### ■ 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.

### **A** CAUTION

#### Certification

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.



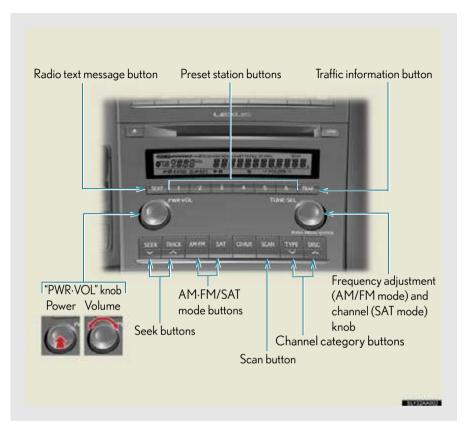
#### ∧ NOTICE

### ■ To prevent battery discharge

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

### ■ To avoid damaging the audio system

Take care not to spill drinks or other fluids over the audio system.



### Setting station presets (excluding XM® Satellite Radio)

STEP 1 Search for the desired stations by turning



or pressing



Press and hold the button (from to be set to until you hear a beep.

### Scanning radio stations (excluding XM® Satellite Radio)

### ■ Scanning the preset radio stations

STEP 1 Press and hold SCAN until you hear a beep.

STEP 2 When the desired station is reached, press the button again.

### ■ Scanning all the radio stations within range

STEP 1 Press SCAN .

All the stations with reception will be played for 5 seconds each.

STEP 2 When the desired station is reached, press the button 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



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)
- ●"ALERT" (Emergency messages)

If the system receives no RDS stations, "NO PTY" appears on the display.



The radio seeks or scans for stations of the relevant program type.

### ■ Displaying radio station names

Press TEXT.

### ■ Displaying radio text messages

Press twice.

A text message is displayed when "MSG" is shown on the screen.

If the text continues past the end of the display, less is displayed. Press and hold rext until you hear a beep.

#### XM® Satellite Radio

### ■ Receiving XM<sup>®</sup> Satellite Radio



The display changes as follows each time the button is pressed: "SAT1"  $\rightarrow$  "SAT2"  $\rightarrow$  "SAT3"



to select the desired channel in all the categories

or press or select the desired channel in the current category.

## ■ Setting XM<sup>®</sup> Satellite Radio channel presets

Select the desired channel. Press and hold the button (from to the channel is to be set to until you hear a beep.

### ■ Changing the channel category



### ■ Scanning the XM<sup>®</sup> Satellite Radio channels

• Scanning the channels in the current category



- STEP 2 When the desired channel is reached, press the button again.
- Scanning the preset channels
  - STEP 1 Press and hold SCAN until you hear a beep.
  - STEP 2 When the desired channel is reached, press the button again.

### ■ Displaying text information

Press TEXT.

The display will show up to 10 characters.

The display changes as follows each time the button is pressed:

- CH NAME
- TITLE (SONG/PROGRAM TITLE)
- NAME (ARTIST NAME/FEATURE)
- CH NUMBER

#### ■ When the 12-volt battery is disconnected

All preset stations are erased.

#### ■ Reception sensitivity

- Cargo loaded on the roof luggage carrier, especially metal objects, may adversely affect the reception of XM<sup>®</sup> Satellite Radio.
- It is difficult to maintain perfect radio reception at all times due to the continually changing position of the antenna, differences in signal strength and surrounding objects, such as trains and transmitters.
- 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.

### ■ Receiving XM<sup>®</sup> Satellite Radio

An XM<sup>®</sup> Satellite Radio is a tuner designed exclusively to receive broadcasts provided under a separate subscription. Availability is limited to the 48 contiguous states and 10 Canadian provinces.

XM<sup>®</sup> subscriptions

For detailed information about XM<sup>®</sup> Satellite Radio or to subscribe:

U.S.A.—

Visit on the web at <u>www.xmradio.com</u> or call 1-877-515-3987.

Canada —

Visit on the web at www.xmradio.ca or call 1-877-515-3987.

Radio ID

You will need the radio ID when activating XM<sup>®</sup> service or reporting a problem.

Select "CH000" using



, and the receiver's 8-character ID number will

appear.

Satellite tuner

The tuner supports only Audio Services (Music and Talk) and the accompanying Text Information of  $XM^{\textcircled{8}}$  Satellite Radio.

### ■ If the satellite radio does not operate normally

If a problem occurs with the XM<sup>®</sup> tuner, a message will appear on the display. Refer to the table below to identify the problem, and take the suggested corrective action.

ANTENNA	The $XM^{\circledR}$ antenna is not connected. Check whether the $XM^{\circledR}$ antenna cable is attached securely.
ANTENNA	There is a short-circuit in the antenna or the surrounding antenna cable. See a Lexus certified dealer.
	You have not subscribed to the XM <sup>®</sup> Satellite Radio. The radio is being updated with the latest encryption code. Contact the XM <sup>®</sup> Satellite Radio for subscription information. When a contract is canceled, you can choose the "CH000" and all the free-to-air channels.
UNAUTH	The premium channel you selected is not authorized. Wait for about 2 seconds until the radio returns to the previous channel or "CH001". If it does not change automatically, select another channel. If you want to listen to the premium channel, contact the XM $^{\circledR}$ Satellite Radio.
NO SIGNAL	The XM <sup>®</sup> signal is too weak at the current location. Wait until your vehicle reaches a location with a stronger signal.
LOADING	The unit is acquiring audio or program information.  Wait until the unit has received the information.
OFF AIR	The channel you selected is not broadcasting any programming. Select another channel.

	There is no song/program title or artist name/feature associated with the channel at that time. No action needed.
CH UNAVL	The channel you selected is no longer available. Wait for about 2 seconds until the radio returns to the previous channel or "CHOO1". If it does not change automatically, select another channel.

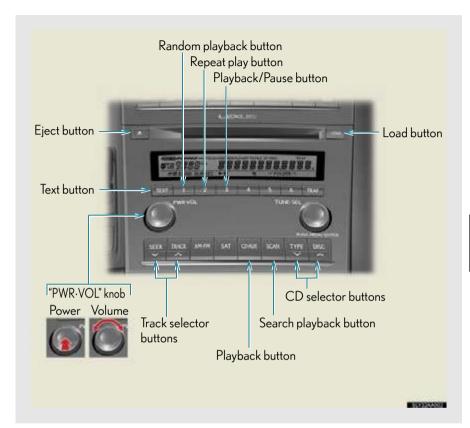
Contact the XM<sup>®</sup> Listener Care Center at 1-877-515-3987.

#### ■ Certifications for the radio tuner

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 trying one or more of the following:

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



### Loading a CD

### ■ Loading a CD

STEP 1 Press LOVE .

"WAIT" is shown on the display.

STEP 2 When the indicator on the slot turns from amber to green, insert a CD.

The display changes from "WAIT" to "LOAD".

### ■ Loading multiple CDs

STEP 1 Press and hold until you hear a beep.

"WAIT" is shown on the display.

STEP 2 When the indicator on the slot turns from amber to green, insert a CD.

The display changes from "WAIT" to "LOAD".

The indicator on the slot turns to amber when the CD is being inserted.

When the indicator on the slot turns from amber to green, insert the next CD.

Repeat the procedure for the remaining CDs.

To cancel the operation, press . If you do not insert a disc within 15 seconds, loading will be canceled automatically.

### **Ejecting CDs**

### ■ Ejecting a CD



To select the CD to be ejected.





The selected disc number is shown. on the display.



STEP 2 Press and remove the CD.

### ■ Ejecting all the CDs

Press and hold until you hear a beep, and then remove the CDs.

### Selecting, fast-forwarding, reversing and scanning tracks

### ■ Selecting a track

to move up or seek to move down until the desired track number is displayed.

### ■ Fast-forwarding and reversing tracks

To fast-forward or reverse, press and hold hear a beep.





until you

### ■ Scanning tracks





The first ten seconds of each track will be played.

To cancel, press



again.

STEP 2 Press the button again when the desired track is reached.

### Selecting a CD

### ■ Selecting a CD to play

To select the desired CD, press  $\stackrel{\text{TYPE}}{\sim}$  or  $\stackrel{\text{DISC}}{\sim}$ 

#### ■ Scanning loaded CDs

STEP 1 Press and hold SCAN until you hear a beep.

The first ten seconds of the first track on each CD will be played.

To cancel, press SCAN again.

STEP 2 Press the button again when the desired CD is reached.

### Playing and pausing tracks

To play or pause a track, press

### Random playback

### ■ Current CD

Press \_\_\_\_\_.

Songs are played in random order.

To cancel, press again.

#### ■ All CDs

Press and hold until you hear a beep.

Tracks on all loaded CDs are played in random order.

To cancel, press again.

### Repeat play

### ■ Repeating a track

Press 2.

To cancel, press again.

### ■ Repeating all of the tracks on a CD

Press and hold until you hear a beep.

To cancel, press again.

#### Switching the display

Press TEXT.

Each time the button is pressed, the display changes in the following order: Elapsed time  $\rightarrow$  CD title  $\rightarrow$  Track title

#### ■ CD player protection feature

To protect the internal components, playback is automatically stopped when a problem is detected.

### Display

Up to 12 characters can be displayed at a time.

If there are 13 or more characters, pressing and holding for 1 second or more enables to display the remaining characters.

A maximum of 24 characters can be displayed.

If \_\_\_\_\_\_ is pressed for more than 1 second again or has not been operated for more than 6 seconds, the display will return to the first 12 characters.

Depending on the contents recorded, the characters may not be displayed properly or may not be displayed at all.

#### ■ When "ERROR" or "WAIT" is shown on the display

"ERROR": This indicates a trouble either in the CD or inside the player. The CD may be dirty, damaged, or inserted up-side down.

"WAIT": This indicates that operation is stopped due to a high temperature inside the player. Wait for a while and then press  $^{\text{CDAUX}}$ . If the CD still cannot

be played back, contact your Lexus dealer.

#### ■ 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.



CDs with copy-protection features may not be used.

#### ■ Lens cleaners

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

#### If discs are left inside the CD player or in the ejected position for extended periods of time

The discs may be damaged and may not play properly.

### **⚠** NOTICE

#### CDs and adapters that cannot be used

Do not use the following types of CDs, 3 in. (8 cm) CD adapters or Dual Discs. Doing so may damage the CD player and/or the CD load/eject function.



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



Low-quality and deformed CDs



 CDs with a transparent or translucent recording area



 CDs that have had tape, stickers or CD-R labels attached to them, or that have had the label peeled off

### **↑** NOTICE

### ■CD player precautions

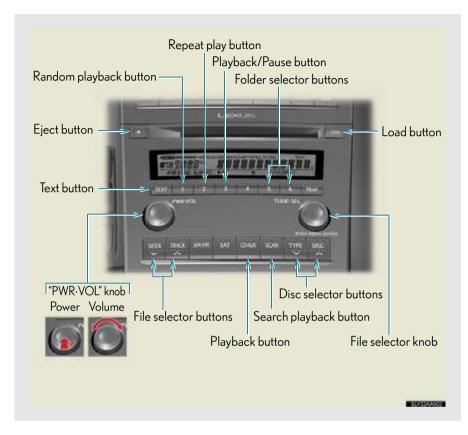
Failure to follow the precautions below may result in serious damage to the CDs or the player itself.

- Do not insert anything other than CDs into the CD slot.
- Do not apply oil to the CD player.
- Store CDs away from direct sunlight.
- Never try to disassemble any part of the CD player.



• Do not insert more than one CD at a time.

# Playing MP3 and WMA discs



### Loading and ejecting MP3 and WMA discs

 $\rightarrow$  P. 278, 279

### Selecting MP3 and WMA discs

 $\rightarrow$ P. 280

#### Selecting and scanning a folder

■ Selecting a folder one at a time

Press or to select the desired folder.

■ Returning to the first folder

Press and hold until you hear a beep.

■ Scanning the first file of all the folders

STEP 1 Press and hold scan until you hear a beep.

The first ten seconds of the first file in each folder will be played.

STEP 2 When the desired folder is reached, press



#### Fast-forwarding and reversing files

To fast-forward or reverse, press and hold or seek until you hear a beep.

### Selecting and scanning files

### ■ Selecting file



or press





to select the desired file.

### ■ Scanning the files in a folder



The first ten seconds of each file will be played.

To cancel, press SCAN



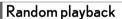
When the desired file is reached, press



again.

### Playing and pausing files

To play or pause a file, press



■ Playing files from a folder in random order

Press \_\_\_\_\_.

To cancel, press again.

■ Playing all the files from a disc in random order

Press and hold until you hear a beep.

To cancel, press again.

### Repeat play

### ■ Repeating a file

Press 2.

To cancel, press again.

### ■ Repeating all the files in a folder

Press and hold until you hear a beep.

To cancel, press again.

### Switching the display

Press TEXT.

Each time the button is pressed, the display changes in the following order: Folder no./File no./Elapsed time  $\rightarrow$  Folder name  $\rightarrow$  File name  $\rightarrow$  Album title (MP3 only)  $\rightarrow$  Track title  $\rightarrow$  Artist name

### ■CD player protection feature

 $\rightarrow$ P. 281

#### ■ Display

 $\rightarrow$ P. 281

### ■ When "ERROR", "WAIT" or "NO MUSIC" is shown on the display

"ERROR": This indicates a problem either in the CD or inside the player. The CD may be dirty, damaged, or inserted up-side down.

"WAIT": This indicates that operation is stopped due to a high temperatures inside

the player. Wait for a while and then press played back, contact your Lexus dealer.



"NO MUSIC": This indicates that an MP3/WMA file is not included in the CD.

#### ■ Discs that can be used

 $\rightarrow$ P. 282

#### ■ Lens cleaners

 $\rightarrow$ P. 282

# If discs are left inside the CD player or in the ejected position for extended periods of time

 $\rightarrow$ P 282

#### ■ 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 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 will 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<sup>®</sup>, Windows<sup>®</sup>, and Windows Media are the registered trademarks of Microsoft Corporation in the U.S.A. and other countries.

### **⚠** NOTICE

#### CDs and adapters that cannot be used

 $\rightarrow$ P. 283

#### CD player precautions

 $\rightarrow$ P. 284

# Operating an iPod

Connecting an iPod enables you to enjoy music from the vehicle speakers.

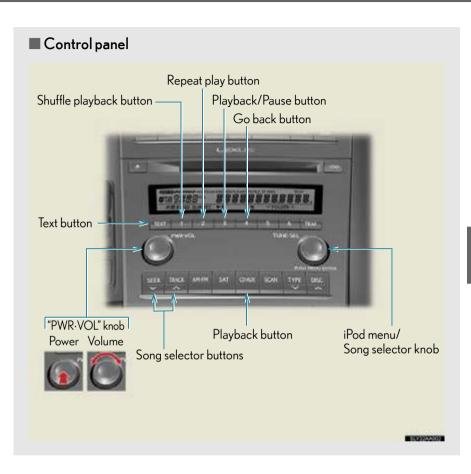
#### ■ Connecting an iPod



Open the cover and connect an iPod using an iPod cable.

Turn on the power of the iPod if it is not turned on.





#### Selecting a play mode

STEP 1 Press



to select iPod menu mode.

STEP 2 Turning



changes the play mode in the following order:

"PLAYLISTS"→"ARTISTS"→"ALBUMS"→"SONGS"→
"PODCASTS"→"GENRES"→"COMPOSERS"→
"AUDIOBOOKS"

STEP 3 Press



to select the desired play mode.

#### ■ Play mode list

Play mode	First selection	Second selection	Third selection	Fourth selection
"PLAYLISTS"	Playlists select	Songs select	-	-
"ARTISTS"	Artists select	Albums select	Songs select	-
"ALBUMS"	Albums select	Songs select	-	-
"SONGS"	Songs select	-	-	-
"PODCASTS"	Albums select	Songs select	-	-
"GENRES"	Genre select	Artists select	Albums select	Songs select
"COMPOSERS"	Composers select	Albums select	Songs select	-
"AUDIOBOOKS"	Songs select	-	-	-

#### ■ Selecting a list





to display the first selection list.

STEP 2 Press



to select the desired item.

Pressing the knob changes to the second selection list.

Repeat the same procedure to select the desired song name.

To return to the previous selection list, select "GO BACK" or press

#### Selecting songs

Turn



or press



or



to select the desired song.

#### Playing and pausing songs

To play or pause a song, press



#### Fast-forwarding and rewinding songs

To fast-forward or rewind, press and hold beep.





until you hear a

#### Shuffle playback

■ Playing songs from one playlist or album in random order

Press \_\_\_\_\_.

To cancel, press again.

Playing songs from all the playlists or albums in random order

Press and hold until you hear a beep.

To cancel, press again.

#### Repeat play

Press 2



To cancel, press again.

# Switching the display

Press TEXT

Each time the button is pressed, the display changes in the following order: Elapsed time  $\rightarrow$  Album title  $\rightarrow$  Track title  $\rightarrow$  Artist name

#### Adjusting sound quality and volume balance

STEP 1 Press



to enter iPod menu mode.

STEP 2 Pressing



changes sound modes.  $(\rightarrow P. 309)$ 

#### ■ About iPod

- Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards.
- iPod is a trademark of Apple Inc., registered in the U.S. and other countries.

#### ■ iPod functions

- When an iPod is connected and the audio source is changed to iPod mode, the iPod will resume play from the same point in which it was last used.
- Depending on the iPod that is connected to the system, certain functions may not be available. Disconnecting the device and reconnecting it once again may resolve some malfunctions.

#### ■ iPod problems

To resolve most problems encountered when using your iPod, disconnect your iPod from the vehicle iPod connection and reset it.

For instructions on how to reset your iPod, refer to your iPod Owner's Manual.

#### Display

 $\rightarrow$ P. 281

#### ■ Routing portable audio device cables



When the console box is open, portable audio device cables can be pulled through the opening.

#### ■ Error messages

"ERROR": This indicates a problem in the iPod or its connection.

"NO MUSIC": This indicates that there is no music data in the iPod.

"EMPTY": This indicates that an empty playlist is selected.

"UPDATE": This indicates that the version of the iPod is not compatible. Upgrade your iPod software to the latest version.

#### ■ Compatible models

Model	Generation	Software version
iPod	5th generation	Ver. 1.2.0 or higher
iPod nano	1st generation Ver. 1.3.0 or higher	
	2nd generation	Ver. 1.1.2 or higher
	3rd generation	Ver. 1.0.0 or higher
iPod touch	1st generation	Ver. 1.1.0 or higher
iPod classic	1st generation	Ver. 1.0.0 or higher

Depending on differences between models or software version etc., some models listed above might be incompatible with this system.

iPod 4th generation and earlier models are not compatible with this system.

iPhone, iPod mini, iPod shuffle and iPod photo are not compatible with this system.

Items related to standards and limitations are as follows:

- Maximum number of lists in device: 9999
- Maximum number of songs in device: 65025
- Maximum number of songs per list: 65025



#### **A** CAUTION

#### Caution while driving

Do not connect iPod or operate the controls.

### **⚠** NOTICE

#### ■ To prevent damage to iPod

- Do not leave iPod in the vehicle. The temperature inside the vehicle may become high, resulting in damage to the player.
- Do not push down on or apply unnecessary pressure to the iPod while it is connected as this may damage the iPod or its terminal.
- Do not insert foreign objects into the port as this may damage the iPod or its terminal.

# Operating a USB memory

Connecting a USB memory enables you to enjoy music from the vehicle speakers.

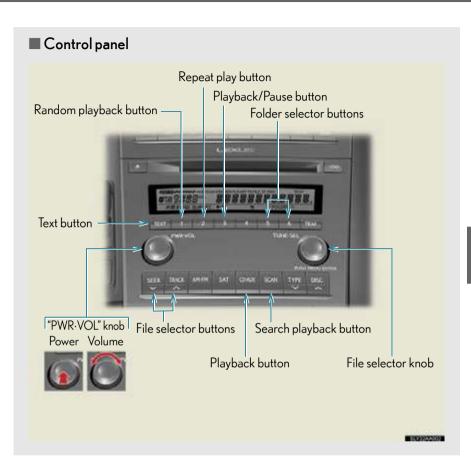
#### ■ Connecting a USB memory



Open the cover and connect a USB memory.

Turn on the power of the USB memory if it is not turned on.





#### Selecting and scanning a folder

■ Selecting folders one at a time

Press or to select the desired folder.

■ Returning to the first folder

Press and hold until you hear a beep.

■ Scanning the first file of all the folders

STEP 1 Press and hold SCAN until you hear a beep.

The first ten seconds of the first file in each folder will be played.

STEP 2 When the desired folder is reached, press scan again.

#### Selecting and scanning files

■ Selecting a file



■ Scanning the files in a folder



The first ten seconds of each file will be played.

To cancel, press SCAN again.

When the desired file is reached, press scan again.

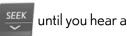
#### Playing and pausing files

#### Fast-forwarding and rewinding files

To fast-forward or rewind, press and hold beep.



or



#### Random playback

■ Playing files from a folder in random order



To cancel, press again.

■ Playing all the files from a USB memory in random order

Press and hold until you hear a beep.

To cancel, press again.

#### Repeat play

■ Repeating a file

Press \_\_\_\_\_.

To cancel, press again.

■ Repeating all the files in a folder

Press and hold until you hear a beep.

To cancel, press again.

#### Switching the display

Press TEXT.

Each time the button is pressed, the display changes in the following order: Elapsed time  $\rightarrow$  Folder name  $\rightarrow$  File name  $\rightarrow$  Album title  $\rightarrow$  Track title  $\rightarrow$  Artist name

#### ■USB memory functions

Depending on the USB memory that is connected to the system, certain functions may not be available. Disconnecting the device and reconnecting it once again may resolve some malfunctions.

#### ■ Display

 $\rightarrow$ P. 281

#### ■ Routing portable audio device cables

 $\rightarrow$ P. 297

#### ■ Error messages

"ERROR": This indicates a problem in the USB memory or its connection.

"NO MUSIC": This indicates that no MP3/WMA files are included in the USB memory.

#### ■ USB memory

Compatible devices

USB memory that can be used for MP3 and WMA playback

Compatible device formats

The following device formats can be used:

- USB communication formats: USB2.0 FS (12mbps)
- File formats: FAT16/32 (Windows<sup>®</sup>)
- Correspondence class: Mass storage class

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
- Maximum number of folders in a device: 999 (including the root)
- Maximum number of files in a device: 65025
- Maximum number of files per folder: 255

#### 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 using MP3 compression.

WMA (Windows Media Audio) is a Microsoft<sup>®</sup> 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 AUDIO LAYERII, III, MPEG2 AUDIO LAYERII, III, MPEG2.5)
  - Compatible sampling frequencies MPEG1 AUDIO LAYERII, III: 32, 44.1, 48 (kHz) MPEG2 AUDIO LAYERII, III: 16, 22.05, 24 (kHz) MPEG2.5: 8, 11.025, 12 (kHz)
  - Compatible bit rates (compatible with VBR)
     MPEG1 AUDIO LAYERII, III: 32-320 (kbps)
     MPEG2 AUDIO LAYERII, III: 32-160 (kbps)
     MPEG2.5: 32-160 (kbps)
  - · Compatible channel modes: stereo, joint stereo, dual channel and monaural
- WMA file compatibility
  - Compatible standards WMA Ver. 9
  - Compatible sampling frequencies HIGH PROFILE 32, 44.1, 48 (kHz)
  - Compatible bit rates HIGH PROFILE 32-320 (kbps, VBR)
- File names

The only files that can be recognized as MP3/WMA and played are those with the extension .mp3 or .wma.

#### ● 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, 2.4 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 device containing MP3 or WMA files is connected, all files in the USB memory device are 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 that you do not include any files other than MP3 or WMA files or create any unnecessary folders.
- When the USB device is connected and the audio source is changed to USB memory mode, the USB device will start playing the first file in the first folder. If the same device is removed and reinserted (and the contents have not been changed), the USB device will resume play from the same point in which it was last used.

#### Extensions

If the file extensions .mp3 and .wma are used for files other than MP3 and WMA files, they will 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.
- 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.
- Microsoft<sup>®</sup>, Windows<sup>®</sup>, and Windows Media are registered trademarks of Microsoft Corporation in the U.S.A. and other countries.

#### **A** CAUTION

#### ■ Caution while driving

Do not connect USB memory or operate the controls.



#### ■ To prevent damage to USB memory

- Do not leave USB memory in the vehicle. The temperature inside the vehicle may become high, resulting in damage to the player.
- Do not push down on or apply unnecessary pressure to the USB memory while it is connected as this may damage the USB memory or its terminal.
- Do not insert foreign objects into the port as this may damage the USB memory or its terminal.

# Optimal use of the audio system



- Displays the current mode
- Changes the following settings:
- Sound quality and volume balance
  - →P. 309

The sound quality and balance setting can be changed to produce the best sound.

- Automatic Sound Levelizer on/off
  - →P. 310

#### Adjusting sound quality and volume balance

#### ■ Changing sound quality modes

Press



Pressing the button changes sound modes in the following order:

#### Adjusting sound quality

Turning



adjusts the level.

Mode displayed	Sound qual- ity mode	Level	Turn counter- clockwise	Turn clock- wise
"BAS"	Bass*	-5 to 5		
"MID"	Mid-range*	-5 to 5	Low	High
"TRE"	Treble*	-5 to 5		
"FAD"	Front/rear volume balance	F7 to R7	Shifts to rear	Shifts to front
"BAL"	Left/right volume balance	L7 to R7	Shifts to left	Shifts to right

<sup>\*:</sup> The sound quality level is adjusted individually in each audio mode.

#### Turning the Automatic Sound Levelizer (ASL) on/off

Turning



clockwise turns on the ASL, and turning



counterclockwise turns off the ASL.

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

This port can be used to connect a portable audio device and listen to it through the vehicle's speakers.



Open the cover and connect the portable audio device.



#### 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.

■ Routing portable audio device cables

 $\rightarrow$ P. 297

### Using the steering wheel audio switches

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



- Turns the power on, selects an audio source
- 2 Increases/decreases volume
- Radio mode: Selects a radio station

CD mode: Selects a track, file (MP3 and WMA) and disc

Bluetooth<sup>®</sup> audio mode: Selects a track and album

iPod mode: Selects a song

USB memory mode: Selects a file and folder

#### Turning the power on

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 button is pressed. If no discs are inserted in the player, that mode will be skipped.

FM1
$$\rightarrow$$
FM2 $\rightarrow$ SAT1 $\rightarrow$ SAT2 $\rightarrow$ SAT3 $\rightarrow$ CD player $\rightarrow$  Bluetooth<sup>®</sup> audio $\rightarrow$ AUX $\rightarrow$ iPod or USB memory $\rightarrow$ AM $\rightarrow$ FM1

#### Adjusting the volume

Press "+" on \_\_\_\_\_ to increase the volume and "-" to decrease the volume.

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

#### Selecting a radio station

- STEP 1 Press to select 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 button until you hear a beep.

#### Selecting a track/file or song

- Press to select CD, Bluetooth® audio, iPod or USB memory mode.
- STEP 2 Press "\" or "\" on \_\_\_\_\_ to select the desired track/file or song.

#### Selecting an album

STEP 1 Press to select Bluetooth® audio mode.

STEP 2 Press and hold "\" or "\" on \_\_\_\_\_ until you hear a beep.

#### Selecting a folder

STEP 1 Press to select USB memory mode.

STEP 2 Press and hold " $\wedge$ " or " $\vee$ " on \_\_\_\_\_ until you hear a beep.

#### Selecting a disc in the CD player

STEP 1 Press to select CD mode.

STEP 2 Press and hold " $\wedge$ " or " $\vee$ " on \_\_\_\_\_ until you hear a beep.

#### ■ Canceling automatic selection of a radio station

Press again.

#### **A** CAUTION

#### ■ To reduce the risk of an accident

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

# 3-3. Using the Bluetooth® audio system Bluetooth® audio system

The Bluetooth<sup>®</sup> audio system enables you to enjoy music played on a portable digital audio player (portable player) from the vehicle speakers via wireless communication.

This audio system supports Bluetooth<sup>®</sup>, a wireless data system capable of playing portable audio music without cables. If your portable player does not support Bluetooth<sup>®</sup>, the Bluetooth<sup>®</sup> audio system will not function.

Vehicles without a navigation system:

Title	Page
Using the Bluetooth <sup>®</sup> audio system	P. 318
Operating a Bluetooth <sup>®</sup> enabled portable player	P. 323
Setting up a Bluetooth <sup>®</sup> enabled portable player	P. 326
Bluetooth <sup>®</sup> audio system setup	P. 331

Vehicles with a navigation system:

Owners of models equipped with a navigation system should refer to the "Navigation System Owner's Manual".

#### ■ Conditions under which the system will not operate

- If using a portable player that does not support Bluetooth<sup>®</sup>
- If the portable player is switched off
- If the portable player is not connected
- If the portable player's battery is low
- If the portable player is behind the seat or in the glove box or console box
- If metal is covering or touching the portable player

#### ■ When transferring ownership of the vehicle

Be sure to initialize the system to prevent personal data from being improperly accessed.  $(\rightarrow P. 357)$ 

■ About Bluetooth®



Bluetooth is a registered trademark of Bluetooth SIG. Inc.

#### ■ Compatible models

- Bluetooth<sup>®</sup> specifications:
   Ver. 1.2, or higher (Recommended: Ver. 2.0+EDR or higher)
- Following Profiles:
  - A2DP (Advanced Audio Distribution Profile) Ver. 1.0
  - AVRCP (Audio/Video Remote Control Profile) Ver. 1.0 or higher (Ver. 1.3 or higher recommended)

Portable players must correspond to the above specifications in order to be connected to the Bluetooth<sup>®</sup> audio system. However, please note that some functions may be limited depending on the type of portable player.

### ■ Certification for the Bluetooth® audio system

FCC ID: AJDK018 IC ID: 775E-K018 MADE IN JAPAN

This device complies with Part 15 of the FCC Rules and RSS-210 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.

#### **A** CAUTION

#### **■FCC WARNING**

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

Radio Frequency Radiation Exposure. This equipment complies with FCC radiation exposure limits set forth for uncontrolled equipment and meets the FCC radio frequency (RF) Exposure Guidelines in Supplement C to OET65. This equipment has very low levels of RF energy that it deemed to comply without maximum permissive exposure evaluation (MPE). But it is desirable that it should be installed and operated with at least 7.9 in. (20 cm) and more between the radiator and person's body (excluding extremities: hands, wrists, feet and legs).

This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.

#### Caution while driving

Do not connect portable players or operate the controls.



#### NOTICE

#### ■ To prevent damage to portable players

Do not leave portable players in the vehicle. The temperature inside the vehicle may become high, resulting in damage to the player.

## 3-3. Using the Bluetooth® audio system

# Using the Bluetooth® audio system

#### ■ Audio unit



#### Display

A message, name, number, etc. is displayed.

Lower-case characters and special characters cannot be displayed.

- 2 Displays information that is too long to be displayed at one time on the display (press and hold)
- Selects items such as menu and number Turn: Selects an item Press: Inputs the selected
- Bluetooth<sup>®</sup> connection condition

If "BT" is not displayed, the Bluetooth<sup>®</sup> audio system cannot be used

#### Steering wheel switches



#### 1 Talk switch

item

Turns the voice command system on (press)/turns the voice command system off (press and hold)

#### ■ Microphone



#### Operating the system using voice commands

By following voice guidance instructions output from the speaker, voice commands enable to the operation of the Bluetooth  $^{\mathbb{R}}$  audio system with-

out the need to check the display or operate



# ■ Operation procedure when using voice commands Press the talk switch and follow voice guidance instructions.

#### Auxiliary commands when using voice commands

The following auxiliary commands can be used when operating the system using a voice command:

"Cancel": Exits the Bluetooth® audio system

"Repeat": Repeats the previous voice guidance instruction

"Go back": Returns to the previous procedure

"Help": Reads aloud the function summary if a help comment is registered for the selected function

#### Using the Bluetooth® audio system for the first time

Before using the Bluetooth<sup>®</sup> audio system, it is necessary to register a Bluetooth<sup>®</sup> enabled portable player in the system. Follow the procedure below to register (pair) a portable player:





and select "BT•A MENU" using



STEP 2 Press the talk switch or select "BT•A Setup" using



The introductory guidance and portable player name registration instructions are heard.

STEP 3 Select "Pair Audio Player (Pair Audio)" using a voice command



Register a portable player name by either of the following methods:

a. Select "Record Name" using registered.



, and say the name to be

b. Press the talk switch and say the name to be registered.

A voice guidance instruction to confirm the input is heard.

STEP 5 Select "Confirm" using a voice command or



A passkey is displayed and heard, and a voice guidance instruction for inputting the passkey into the portable player is heard.

STEP 6 Input the passkey into the portable player.

Refer to the manual that comes with the portable player for the operation of the portable player.

Guidance for registration completion is heard.

If the portable player has a Bluetooth  $^{\circledR}$  phone, the phone can be registered at the same time. A voice guidance instruction to register a Bluetooth  $^{\circledR}$  phone is heard.

STEP 7 Select "Yes" or "No" using a voice command or (Bluetooth® phone →P. 334)

# Menu list of the Bluetooth® audio system

#### ■ Normal operation

First menu	Second menu	Operation detail	
"BT·A Setup"	"Pair Audio"	Registering a portable player	
	"Connect"	Selecting a portable player to be used	
	"Change Name"	Changing the registered name of a portable player	
	"List Audios"	Listing the registered portable players	
	"Set Passkey"	Changing the passkey	
	"Delete Audio"	Deleting a registered portable player	
"System Setup"	"Guidance Vol"	Setting voice guidance volume	
	"Device Name"	Displaying the Bluetooth <sup>®</sup> device address and name	
	"Initialize"	Initializing the system	

#### ■ When using a voice command

For numbers, say a combination of single digits from zero to nine.

Say the command correctly and clearly.

#### ■ Situations that the system may not recognize your voice

- When driving on rough roads
- When driving at high speeds
- When air is blowing out of the vents onto the microphone
- When the air conditioning fan emits a loud noise

#### Operations that cannot be performed while driving

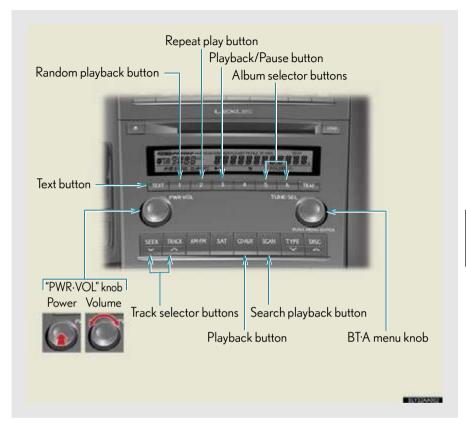
Operating the system with



- Registering a portable player to the system
- Changing the passkey

 $\rightarrow$ P.329

# Operating a Bluetooth® enabled portable player



#### Selecting an album

To select the desired album, press or \_\_\_\_\_.

#### Selecting tracks

Press or to select the desired track.

#### Playing and pausing tracks

To play or pause a track, press \_\_\_\_\_\_.

#### Fast-forwarding and rewinding tracks

To fast-forward or rewind, press and hold or seek until you hear a beep.

#### Random playback

Press \_\_\_\_\_.

To cancel, press again.

#### Repeat play

Press 2.

To cancel, press again.

#### Scanning tracks

Press SCAN .

To cancel, press SCAN again.

### Switching the display

Press TEXT.

Each time the button is pressed, the display changes in the following order: Elapsed time  $\rightarrow$  Album title  $\rightarrow$  Track title  $\rightarrow$  Artist name

### Using the steering wheel audio switches

 $\rightarrow$ P. 312

### ■ Bluetooth<sup>®</sup> audio system functions

Depending on the portable player that is connected to the system, certain functions may not be available.

- Display
  - $\rightarrow$ P. 281

### ■ Error messages

"Memory Error": This indicates a problem in the system.

## 3-3. Using the Bluetooth<sup>®</sup> audio system Setting up a Bluetooth<sup>®</sup> enabled portable player

Registering a portable player in the Bluetooth $^{\circledR}$  audio system allows the system to function. The following functions can be used for registered portable players:

### ■ Functions and operation procedures

To enter the menu for each function, follow the steps below using a

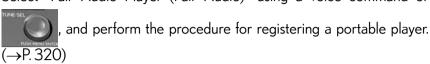
voice command or



- Registering a portable player
  - 1. "Bluetooth Audio Setup (BT•A Setup)" →
  - 2. "Pair Audio Player (Pair Audio)"
- Selecting a portable player to be used
  - 1. "Bluetooth Audio Setup (BT•A Setup)" →
  - 2. "Connect Audio Player (Connect)"
- Changing the registered name of a portable player
  - 1. "Bluetooth Audio Setup (BT•A Setup)"  $\rightarrow$  2. "Change Name"
- Listing the registered portable players
  - 1. "Bluetooth Audio Setup (BT•A Setup)" →
  - 2. "List Audio Players (List Audios)"
- Changing the passkey
  - 1. "Bluetooth Audio Setup (BT•A Setup)"  $\rightarrow$  2 "Set Passkey"
- Deleting a registered portable player
  - 1. "Bluetooth Audio Setup (BT•A Setup)" →
  - 2. "Delete Audio Player (Delete Audio)"

### Registering a portable player

Select "Pair Audio Player (Pair Audio)" using a voice command or



### Selecting a portable player to be used

- STEP 1 Select "Connect Audio Player (Connect)" using a voice command or ...
- Step 2 Select the portable player to be used by either of the following methods, and select "Confirm" by using a voice command or



- a. Press the talk switch and say the name of the desired portable player.
- b. Press the talk switch and say "List Audio Players". When the name of the desired portable player is read aloud, press the talk switch.
- STEP 3 Press the talk switch and say "From Car" or "From Audio player",

and select "Confirm" by using a voice command or



If "From Car" is selected, the portable player will be automatically connected whenever the "POWER" switch is in either ACCESSORY or IGNITION ON mode.

### Changing the registered name of a portable player

STEP 1 Select "Change Name" using a voice command or



STEP 2 Select the name of the portable player to be changed by either of the following methods, and select "Confirm" using a voice com-

mand or TUNE SEL

- a. Press the talk switch and say the name of desired portable player.
- b. Press the talk switch and say "List Audio Players". When the name of the desired portable player is read aloud, press the talk switch.

Press the talk switch or select "Record Name" using and say the new name.

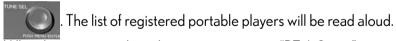


STEP 4 Select "Confirm" using a voice command or



### Listing the registered portable players

Select "List Audio Players (List Audios)" using a voice command or



When listing is complete, the system returns to "BT•A Setup".

Pressing the talk switch while the name of a portable player is being read aloud selects the portable player, and the following functions will become available:

- Selecting a portable player: "Connect Audio Player (Connect)"
- Changing a registered name: "Change Name"
- Deleting a portable player: "Delete Audio Player (Delete Audio)"

### Changing the passkey

STEP 1 Select "Set Passkey" using a voice command or



STEP 2 Press the talk switch, say a 4 to 8-digit number, and select

"Confirm" using a voice command or



The number should be input 1 digit at a time.

STEP 3 When the entire number to be registered as a passkey has been

input, press



again.

If the number to be registered has 8 digits, pressing of the knob is not necessary.

### Deleting a registered portable player

STEP 1 Select "Delete Audio Player (Delete Audio)" using a voice command or ...

STEP 2 Select the portable player to be deleted by either of the following methods and select "Confirm" using a voice command or



- a. Press the talk switch and say the name of the desired portable player.
- b. Press the talk switch and say "List Audio Players". When the name of the desired portable player is read aloud, press the talk switch.

If the portable player to be deleted is paired as a Bluetooth  $^{\circledR}$  phone, the registration of the cellular phone can be deleted at the same time. A voice guidance instruction to delete a cellular phone is heard.

STEP 3 Select "Yes" or "No" using a voice command or



(Bluetooth<sup>®</sup> phone  $\rightarrow$  P. 334)

■ The number of portable players that can be registered

Up to 2 portable players can be registered in the system.

# 3-3. Using the Bluetooth® audio system Bluetooth® audio system setup

### ■ System setup items and operation procedures

To enter the menu for each function, follow the steps below using a

voice command or



 $(\rightarrow P.354)$ 

- Setting voice guidance volume "Guidance Vol" (→P. 356)
- Displaying the Bluetooth<sup>®</sup> device address and name "Device Name" (→P. 356)
- Initializing the system "Initialize" ( $\rightarrow$ P. 356)

## 3-4. Using the hands-free phone system (for cellular phones) Hands-free system for cellular phones

The hands-free system is a function that allows you to use your cellular phone without touching it.

This system supports Bluetooth  $^{\circledR}$  cellular phones. Bluetooth  $^{\circledR}$  is a wireless data system that allows the cellular phone to wirelessly connect to the hands-free system and make/receive calls.

Vehicles without a navigation system:

Title	Page
Using the hands-free system	P. 336
Making a phone call	P. 344
Setting a cellular phone	P. 349
Security and system setup	P. 354
Using the phone book	P. 358

Vehicles with a navigation system:

Owners of models equipped with a navigation system should refer to the "Navigation System Owner's Manual".

### ■ Conditions under which the system will not operate

- If using a cellular phone that does not support Bluetooth®
- If the cellular phone is switched off
- If you are outside service range
- If the cellular phone is not connected
- If the cellular phone's battery is low
- If the cellular phone is behind the seat or in the glove box or console box
- If metal is covering or touching the phone

#### ■ When using the hands-free system

- The audio system and voice guidance are muted when making a call.
- If both parties speak at the same time, it may be difficult to hear.
- If the incoming call volume is overly loud, an echo may be heard.
- Try to face toward the microphone as much as possible when speaking.
- In the following circumstances, it may be difficult to hear the other party:
  - When driving on unpaved roads
  - When driving at high speeds
  - When a window is open
  - · When the air conditioning is blowing directly on the microphone
  - When the air conditioning is set to high

### ■ When transferring ownership of the vehicle

Be sure to initialize the system to prevent personal data from being improperly accessed.  $(\rightarrow P. 357)$ 

### ■ For detailed information about Handsfree Phone System

For assistance with pairing and operating your cell phone, go to the website www.lexus.letstalk.com.

#### ■ About Bluetooth®



Bluetooth is a registered trademark of Bluetooth SIG. Inc.

#### ■ Compatible models

Compatible with HFP (Hands Free Profile) Ver. 1.5 and OPP (Object Push Profile) Ver. 1.1.

If your cellular phone does not support HFP, you cannot enter the  $Bluetooth^{\otimes}$  phone. If your cellular phone supports OPP alone, you cannot use the  $Bluetooth^{\otimes}$  phone.

### ■ Certification for the hands-free system

FCC ID: AJDK018 IC ID: 775E-K018 MADE IN JAPAN

This device complies with Part 15 of the FCC Rules and RSS-210 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.

### **A** CAUTION

#### FCC WARNING

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

Radio Frequency Radiation Exposure. This equipment complies with FCC radiation exposure limits set forth for uncontrolled equipment and meets the FCC radio frequency (RF) Exposure Guidelines in Supplement C to OET65. This equipment has very low levels of RF energy that it deemed to comply without maximum permissive exposure evaluation (MPE). But it is desirable that it should be installed and operated with at least 7.9 in. (20 cm) and more between the radiator and person's body (excluding extremities: hands, wrists, feet and legs).

This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.

### Caution while driving

Do not use a cellular phone or connect the Bluetooth<sup>®</sup> phone.



#### **NOTICE**

### ■ To prevent damage to cellular phones

Do not leave cellular phones in the vehicle. The temperature inside the vehicle may become high, resulting in damage to the phone.

### 3-4. Using the hands-free phone system (for cellular phones)

## Using the hands-free system (for cellular phones)

### ■ Audio unit



### Display

A message, name, phone number, etc. is displayed.

Lower-case characters and special characters cannot be displayed.

- ② Displays information that is too long to be displayed at one time on the display (press and hold)
- Selects speed dials
- ☑ Selects items such as menu and number

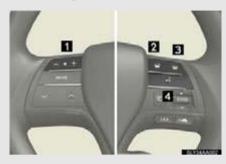
Turn: Selects an item Press: Inputs the selected item

**5** Bluetooth<sup>®</sup> connection condition

If "BT" is not displayed, the hands-free phone system cannot be used.

6 Reception level

### ■ Steering wheel switches

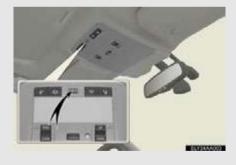


### 1 Volume

The voice guidance volume cannot be adjusted using this button.

- Off-hook switch Turns the hands-free system on/starts a call
- On-hook switch
  Turns the hands-free system
  off/ends a call/refuses a call
- I Talk switch
  Turns the voice command system on (press)/turns the voice command system off (press and hold)

### ■ Microphone



### Operating the system using voice commands

By following voice guidance instructions output from the speaker, voice commands enable to the operation of the hands-free phone system with-

out the need to check the display or operate



### Operation procedure when using voice commands

Press the talk switch and follow voice guidance instructions.

### Auxiliary commands when using voice commands

The following auxiliary commands can be used when operating the system using a voice command:

"Cancel": Exits the hands-free phone system

"Repeat": Repeats the previous voice guidance instruction

"Go back": Returns to the previous procedure

"Help": Reads aloud the function summary if a help comment is registered for the selected function

### Using the hands-free phone system for the first time

Before using the hands-free phone system, it is necessary to register a cellular phone in the system. The system will enter phone registration mode automatically when starting the system with no cellular phone registered. Follow the procedure below to register (pair) a cellular phone:

STEP 1 Press the off-hook switch or the talk switch.

The introductory guidance and phone name registration instructions are heard.

STEP 2 Select "Pair Phone" using a voice command or



STEP 3 Register a phone name by either of the following methods:

a. Select "Record Name" using registered.



, and say the name to be

b. Press the talk switch and say the name to be registered.

A voice guidance instruction to confirm the input is heard.

STEP 4 Select "Confirm" using a voice command or



A passkey is displayed and heard, and a voice guidance instruction for inputting the passkey into the cellular phone is heard.

STEP 5 Input the passkey into the cellular phone.

Refer to the manual that comes with the cellular phone for the operation of the phone.

Guidance for registration completion is heard.

If the cellular phone has a Bluetooth  $^{\circledR}$  audio player, the audio player can be registered at the same time. A voice guidance instruction to register a Bluetooth  $^{\circledR}$  audio player is heard.

STEP 6 Select "Yes" or "No" using a voice command or (Bluetooth® audio player →P. 316)

### Menu list of the hands-free phone system

### ■ Normal operation

First menu	Second menu	Third menu	Operation detail
"Callback"	-	-	Dialing a number stored in the incoming call history memory
"Redial"	-	-	Dialing a number stored in the outgoing call history memory
"Phonebook"	"Add Entry"	-	Adding a new phone number
	"Change Name"	-	Changing the registered name in the phone book
	"Delete Entry"	-	Deleting the registered data
	"Del Spd Dial"	-	Deleting speed dials
	"List Names"	-	Listing the registered data
	"Speed Dial"	-	Setting speed dials

First menu	Second menu	Third menu	Operation detail
"Setup"	"Security"	"Set PIN"	Setting a PIN code
		"Phbk Lock"	Locking the phone book
		"Phbk Unlock"	Unlocking the phone book
	"Phone Setup"	"Pair Phone"	Registering the cellular phone to be used
		"Connect"	Selecting a cellular phone to be used
		"Change Name"	Changing a registered name of a cellular phone
		"List Phones"	Listing the registered cellular phones
		"Set Passkey"	Changing the passkey
		"Delete Phone"	Deleting a registered cellular phone
	"System Setup"	"Guidance Vol"	Setting voice guidance volume
		"Device Name"	Displaying the Bluetooth <sup>®</sup> device address and name
		"Initialize"	Initializing the system

### ■ Using a short cut key

First menu	Second menu	Operation detail
"Dial XXX (name)"	-	Dialing a name registered in the phone book
"Phone book add Entry"	-	Adding a new phone number
"Phone book Change name"	-	Changing a registered name in the phone book
"Phone book Delete Entry"	-	Deleting the registered data
"Phone book List names"	-	Listing the registered data
"Phone book Set Speed Dial"	-	Setting speed dials
"Phone book Delete Speed Dial"	-	Deleting speed dials
"Dial XXX (number)"	-	Dialing by inputting a number
"Phonebook"	"Phonebook Unlock"	Unlocking the phone book
	"Phonebook Lock"	Locking the phone book

#### ■ Automatic volume adjustment

When vehicle speed reaches 50 mph (80 km/h) or more, the volume automatically increases. The volume returns to the previous volume setting when vehicle speed drops to 43 mph (70 km/h) or less.

#### ■ When using a voice command

For numbers, say a combination of single digits from zero to nine, # (pound), \* (star), and + (plus).

Say the command correctly and clearly.

#### ■ Situations that the system may not recognize your voice

- When driving on rough roads
- When driving at high speeds
- When air is blowing out of the vents onto the microphone
- When the air conditioning fan emits a loud noise

#### Operations that cannot be performed while driving

Operating the system with



- Registering a cellular phone to the system
- Changing the passkey

 $\rightarrow$ P. 352

### 3-4. Using the hands-free phone system (for cellular phones)

### Making a phone call

### ■ Making a phone call

- Dialing by inputting a number "Dial by number"
- Dialing by inputting a name "Dial by name"
- Speed dialing
- Dialing a number stored in the outgoing history memory "Redial"
- Dialing a number stored in the incoming history memory "Call back"

### ■ Receiving a phone call

- Answering the phone
- Refusing the call
- Transferring a call
- Call waiting
- Using the call history memory
  - Dialing
  - Storing data in the phone book
  - Deleting

### Dialing by inputting a number

- STEP 1 Press the talk switch and say "Dial by number".
- STEP 2 Press the talk switch and say the phone number.
- STEP 3 Dial by one of the following methods:
  - a. Press the off-hook switch.
  - b. Press the talk switch and say "Dial".
  - c. Select "Dial" using



### Dialing by inputting a name

- STEP 1 Press the talk switch and say "Dial by name".
- STEP 2 Select a registered name to be input by either of the following methods:
  - a. Press the talk switch and say a registered name.
  - b. Press the talk switch and say "List Names". Press the talk switch when the desired name is read aloud.
- STEP 3 Dial by one of the following methods:
  - a. Press the off-hook switch.
  - b. Press the talk switch and say "Dial".
  - c. Select "Dial" using



### Speed dialing

- STEP 1 Press the off-hook switch.
- STEP 2 Press the preset button in which the desired number is registered.
- STEP 3 Press the off-hook switch.

### When receiving a phone call

### ■ Answering the phone

Press the off-hook switch.

### ■ Refusing the call

Press the on-hook switch.

### Transferring a call

A call can be transferred between the cellular phone and system while dialing, receiving a call, or during a call. Use one of the following methods:

- a. Operate the cellular phone.
  - Refer to the manual that comes with the cellular phone for the operation of the phone.
- b. Press the off-hook switch\*1.
- c. Press the talk switch and say "Call Transfer" $^{*2}$ .
- \*1: This operation can be performed only when transferring a call from the cellular phone to the system during a call.
- \*2: While the vehicle is in motion, calls cannot be transferred from the system to the cellular phone.

### Call waiting

When a call is interrupted by an incoming call from a third party, the following options will become available:

- Answer the incoming call: Press the off-hook switch. (Press the off-hook switch again as necessary to switch back and forth between calls.)
- Refuse the incoming call: Press the on-hook switch.

### Using the call history memory

Follow the procedure below to use a number stored in the call history memory:

- STEP 1 Press the talk switch and say "Redial" (when using a number stored in the outgoing call history memory) or "Call back" (when using a number stored in the incoming call history memory).
- STEP 2 Select the number by either of the following methods:
  - a. Say "Previous" or "Go back" until the desired number is displayed.
  - b. Select the desired number using



STEP 3 The following operations can be performed:

Dialing: Press the off-hook switch or select "Dial" using a voice com-

mand or



Storing the number in the phone book: Select "Store" and then

"Confirm" using a voice command or



Deleting: Select "Delete" and then "Confirm" using a voice command or

#### ■ Call waiting

- If your phone does not support HFP Ver. 1.5, this function cannot be used.
- Call waiting operation may differ depending on your cellular phone and service provider.

#### ■ Call history

Up to 5 numbers can be stored in each of the outgoing and incoming call history memories.

#### ■ When talking on the phone

- Do not talk simultaneously with the other party.
- Keep the volume of the received voice down. Otherwise, voice echo will increase.

## 3-4. Using the hands-free phone system (for cellular phones) Setting a cellular phone

Registering a cellular phone in the hands-free phone system allows the system to function. The following functions can be used for registered cellular phones:

### ■ Functions and operation procedures

To enter the menu for each function, follow the steps below using a

voice command or



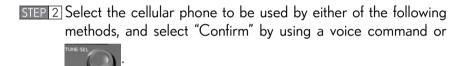
- Registering a cellular phone
  - 1. "Setup"  $\rightarrow$  2. "Phone Setup"  $\rightarrow$  3. "Pair Phone"
- Selecting a cellular phone to be used
   1. "Setup" → 2. "Phone Setup" → 3. "Connect Phone (Connect)"
- Changing the registered name of a cellular phone 1. "Setup"  $\rightarrow$  2. "Phone Setup"  $\rightarrow$  3. "Change Name"
- Listing the registered cellular phones
   1. "Setup" → 2. "Phone Setup" → 3. "List Phones"
- Changing the passkey
   1. "Setup" → 2. "Phone Setup" → 3. "Set Passkey"
- Deleting a registered cellular phone
   1. "Setup" → 2. "Phone Setup" → 3. "Delete Phone"

### Registering a cellular phone

Select "Pair Phone" using a voice command or the procedure for registering a cellular phone.  $(\rightarrow P. 339)$ 

### Selecting a cellular phone to be used

STEP 1 Select "Connect Phone (Connect)" using a voice command or



- a. Press the talk switch and say the name of the desired cellular phone.
- b. Press the talk switch and say "List Phones". When the name of the desired cellular phone is read aloud, press the talk switch.

### Changing the registered name of a cellular phone

STEP 1 Select "Change Name" using a voice command or



STEP 2 Select the name of the cellular phone to be changed by either of the following methods, and select "Confirm" using a voice com-

mand or



- a. Press the talk switch and say the name of the desired cellular phone.
- b. Press the talk switch and say "List Phones". When the name of the desired cellular phone is read aloud, press the talk switch.

Press the talk switch or select "Record Name" using and say the new name.



STEP 4 Select "Confirm" using a voice command or



### Listing the registered cellular phones

Select "List Phones" using a voice command or istered cellular phones will be read aloud.



The list of reg-

When listing is complete, the system returns to "Phone Setup".

Pressing the talk switch while the name of a cellular phone is being read aloud selects the cellular phone, and the following functions will become available:

- Selecting a cellular phone: "Connect Phone (Connect)"
- Changing a registered name: "Change Name"
- Deleting a cellular phone: "Delete Phone"

### Changing the passkey

STEP 1 Select "Set Passkey" using a voice command or



STEP 2 Press the talk switch, say a 4 to 8-digit number, and select

"Confirm" using a voice command or



STEP 3 When the entire number to be registered as a passkey has been

input, press



again.

If the number to be registered has 8 digits, pressing of the knob is not necessary.

### Deleting a registered cellular phone

STEP 1 Select "Delete Phone" using a voice command or



Step 2 Select the cellular phone to be deleted by either of the following methods and select "Confirm" using a voice command or



- a. Press the talk switch and say the name of the desired cellular phone.
- b. Press the talk switch and say "List Phones". When the name of the desired cellular phone is read aloud, press the talk switch.

If the cellular phone to be deleted is paired as a Bluetooth<sup>®</sup> audio player, the registration of the audio player can be deleted at the same time. A voice guidance instruction to delete a Bluetooth<sup>®</sup> audio player is heard.

STEP 3 Select "Yes" or "No" using a voice command or



(Bluetooth<sup>®</sup> audio player  $\rightarrow$  P. 316)

■ The number of cellular phones that can be registered

Up to 6 cellular phones can be registered in the system.

### 3-4. Using the hands-free phone system (for cellular phones)

### Security and system setup

### ■ Security setting items and operation procedures

To enter the menu for each function, follow the steps below using a

voice command or



- Setting or changing the PIN (Personal Identification Number)
   1. "Setup" → 2. "Security" → 3. "Set PIN"
- Locking the phone book
   1. "Setup" → 2. "Security" → 3. "Phonebook Lock (Phbk Lock)"
- Unlocking the phone book
   1. "Setup" → 2. "Security" → 3. "Phonebook Unlock (Phbk Unlock)"

### ■ System setup items and operation procedures

To enter the menu for each function, follow the steps below using



- Setting voice guidance volume
   1. "Setup" → 2. "System Setup" → 3. "Guidance Vol"
- Displaying the Bluetooth<sup>®</sup> device address and name 1. "Setup"  $\rightarrow$  2. "System Setup"  $\rightarrow$  3. "Device Name"
- Initializing the system
  1. "Setup" → 2. "System Setup" → 3. "Initialize"

### Setting or changing the PIN

### ■ Setting a PIN

STEP 1 Select "Set PIN" using a voice command or



STEP 2 Enter a PIN using a voice command or



When using



, input the code 1 digit at a time.

### ■ Changing the PIN

STEP 1 Select "Set PIN" using a voice command or



STEP 2 Enter the registered PIN using a voice command or



STEP 3 Enter a new PIN using a voice command or



When using



, input the code 1 digit at a time.

### Locking or unlocking the phone book

STEP 1 Select "Phonebook Lock (Phbk Lock)" or "Phonebook Unlock (Phbk Unlock)" using a voice command or ...

"Confirm" using a voice command or "Confirm" using

- a. Press the talk switch and say the registered PIN.
- b. Input a new PIN using



### Setting voice guidance volume

STEP 1 Select "Guidance Vol" using



STEP 2 Change the voice guidance volume.

To decrease the volume: Turn



counterclockwise.

To increase the volume: Turn



clockwise.

### Displaying the Bluetooth® device address and name

STEP 1 Select "Device Name" using



STEP 2 Turn



to display the  $\mathsf{Bluetooth}^{\texttt{@}}$  device address and

STEP 3 Select "Go Back" using



to return to "System Setup".

### Initializing the system

STEP 1 Select "Initialize" and then "Confirm" using



STEP 2 Select "Confirm" again using



#### ■ Initialization

- The following data in the system can be initialized:
  - Phone book
  - Outgoing and incoming call history
  - Speed dials
  - Registered cellular phone data
  - Security code
  - Registered Bluetooth<sup>®</sup> enabled portable player data
  - Passkey for the cellular phones
  - Passkey for the Bluetooth<sup>®</sup> audio players
  - Guidance volume
  - Receiver volume
  - · Ring tone volume
- Once the initialization has been completed, the data cannot be restored to its original state.

#### ■ When the phone book is locked

The following functions cannot be used:

- Dialing by inputting a name
- Speed dialing
- Dialing a number stored in the call history memory
- Using the phone book

### 3-4. Using the hands-free phone system (for cellular phones)

### Using the phone book

To enter the menu for each function, follow the steps below using a

voice command or



- Adding a new phone number
   1. "Phonebook" → 2. "Add Entry"
- Changing the registered name in the phone book
   1. "Phonebook" → 2. "Change Name"
- Listing the registered data
   1. "Phonebook" → 2. "List Names"
- Setting speed dials
   1. "Phonebook" → 2. "Set Speed Dial (Speed Dial)"
- Deleting the registered data
   1. "Phonebook" → 2. "Delete Entry"
- Deleting speed dials
   1. "Phonebook" → 2. "Delete Speed Dial (Del Spd Dial)"

### Adding a new phone number

The following methods can be used to add a new phone number:

- Inputting a phone number using a voice command
- Transferring data from the cellular phone
- ullet Inputting a phone number using



Selecting a phone number from outgoing or incoming call history

### ■ Adding procedure

STEP 1 Select "Add Entry" using a voice command or



STEP 2 Use one of the following methods to input a telephone number: Inputting a telephone number using a voice command:

STEP2-1 Select "By Voice" using a voice command or



STEP2-2 Press the talk switch, say the desired number, and select "Confirm" using a voice command.

Transferring data from the cellular phone:

STEP2-1 Select "By Phone" and then "Confirm" using a voice





- STEP2-2 Transfer the data from the cellular phone.

  Refer to the manual that comes with the cellular phone for the details of transferring data.
- STEP2-3 Select the data to be registered by either of the following methods:
  - a. Say "Previous" or "Next" until the desired data is displayed, and select "Confirm" using a voice command.
  - b. Select the desired data using



Inputting a phone number using



STEP2-1 Select "Manual Input" using



STEP2-2 Input a phone number using



and press



again.

Input the phone number 1 digit at a time.

Selecting a phone number from outgoing or incoming call history:

STEP2-1 Select "Call History" using a voice command or



STEP2-2 Select "Outgoing" or "Incoming" using a voice com-

mand or



- STEP2-3 Select the data to be registered by either of the following methods:
  - a. Say "Previous" or "Go back" until the desired data is displayed, and select "Confirm" using a voice command.
  - b. Select the desired data using



STEP 3 Select the name to be registered by either of the following methods, and select "Confirm" using a voice command or



- a. Press the talk switch and say the desired name.
- b. Select "Record Name" using name.



and say the desired

STEP 4 Select "Confirm" using a voice command or



In STEP 4, selecting "Set Speed Dial (Speed Dial)" instead of "Confirm" registers the newly added phone number as a speed dial.

# Changing the registered name in the phone book

STEP 1 Select "Change Name" using a voice command or



STEP 2 Select the name to be changed by either of the following methods, and select "Confirm" using a voice command or



- a. Press the talk switch, say the desired name.
- b. Press the talk switch, and say "List Names". When the desired name is read aloud, press the talk switch.
- STEP 3 Press the talk switch or select "Record Name" using and say the new name.



STEP 4 Select "Confirm" using a voice command or



#### Listing the registered data

Select "List Names" using a voice command or registered data will be read aloud.



The list of the

When listing is complete, the system returns to the "Phonebook".

Pressing the talk switch while the desired data is being read aloud selects the data, and the following function will become available:

- Dialing: "Dial"
- Changing a registered name: "Change Name"
- Deleting an entry: "Delete Entry"
- Setting a speed dial: "Set Speed Dial (Speed Dial)"

## Setting speed dials

STEP 1 Select "Set Speed Dial (Speed Dial)" using a voice command or



Step 2 Select the data to be registered as a speed dial by either of the following methods, and select "Confirm" using a voice command



- a. Press the talk switch, say the desired name.
- b. Press the talk switch, and say "List Names". When the desired name is read aloud, press the talk switch.
- STEP 3 Select the desired preset button, and register the data into speed dial by either of the following methods:
  - a. Press the desired preset button, and select "Confirm" by using a voice command or .
  - b. Press and hold the desired preset button.

#### Deleting the registered data

STEP 1 Select "Delete Entry" using a voice command or



- STEP 2 Select the data to be deleted by either of the following methods, and select "Confirm" using a voice command or ::
  - a. Press the talk switch, and say the name of the desired phone number.
  - b. Press the talk switch, say "List Names". When the name of the desired phone number is read aloud, press the talk switch.

#### Deleting speed dials

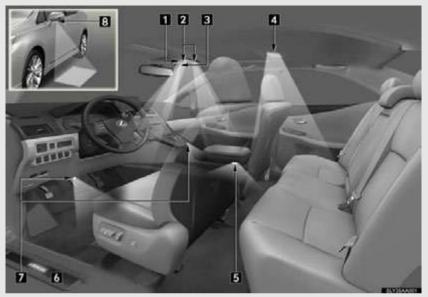
STEP 1 Select "Delete Speed Dial (Del Spd Dial)" using a voice command or ...

Press the preset button to which the desired speed dial is registered, and select "Confirm" using a voice command or ...

#### ■ Limitation of number of digits

A phone number that exceeds 24 digits cannot be registered.

# 3-5. Using the interior lights Interior lights list



- 1 Front interior lights  $(\rightarrow P. 365)$
- Remote touch light (when the "POWER" switch is in ACCESSORY or ON mode)
- 4 Rear interior light
- **5** Door courtesy lights
- 6 Scuff lights (if equipped)
- **7** Footwell lights
- Outer foot lights

# Interior lights

#### Front



- Turns the lights on/off linked to door positions
- Turns the lights on/off

#### Rear



- 1 Turns the light on
- Turns the light on/off linked to door positions

# Personal lights



Turns the light on/off

#### ■ Illuminated entry system

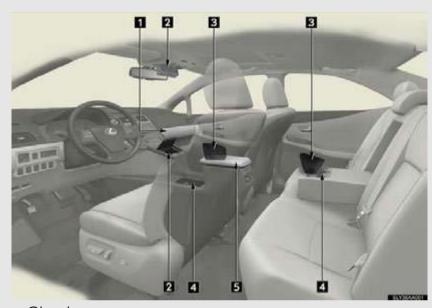
The lights automatically turn on/off according to "POWER" switch mode, the presence of the electronic key, whether the doors are locked/unlocked, and whether the doors are opened/closed.

#### ■ To prevent 12-volt battery discharge

If the interior lights remain on when the door is not fully closed and the interior light switch (door position on/ off) is on, the lights will go off automatically after 20 minutes.

#### ■ Customization

Settings (e.g. the time elapsed before the lights turn off) can be changed. (Customizable features  $\rightarrow$  P. 580)



- 1 Glove box
- 2 Auxiliary boxes (if equipped)
- **3** Bottle holders
- 4 Cup holders
- **5** Console box

### **A** CAUTION

#### ■ Items that should not be left in the storage spaces

Do not leave glasses, lighters or spray cans in the storage spaces, as this may cause the following when cabin temperature becomes high:

- Glasses may be deformed by heat or cracked if they come into contact with other stored items.
- Lighters or spray cans may explode. If they come into contact with other stored items, the lighter may catch fire or the spray can may release gas, causing a fire hazard.

# Glove box

The glove box can be opened by pressing the lock release button and locked and unlocked using the mechanical key.



Press the button



- 1 Lock
- 2 Unlock

## ■ Trunk opener main switch

The trunk opener main switch is located in the glove box.  $(\rightarrow P. 61)$ 

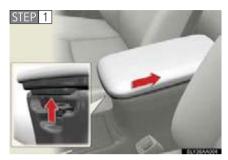


#### **A** CAUTION

# ■ Caution while driving

Keep the glove box closed when not in use. In the event of sudden braking, an accident may occur due to an occupant being struck by the open glove box or the items stored inside.

# Console box



Pull up the knob to release the lock and slide the armrest.



Pull up the knob to release the lock and lift the armrest.

# $\blacksquare$ When using the console box lid as an armrest



Pull up the knob to release the lock.



Slide the armrest lid forward.

#### ■ Coin holder in the console box



#### ■ Routing accessory device cables ( $\rightarrow$ P. 297)



# **A** CAUTION

#### ■ Caution while driving

Keep the console box closed when not is use. In the even of sudden braking, an accident may occur due to an occupant being struck by the open console box or the items stored inside.

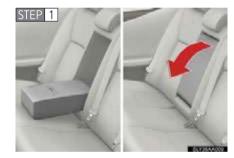
# Cup holders

#### Front

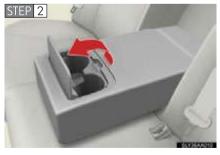


Press down and release the left side of the cup holder lid.

# Rear



Pull the armrest down.



Lift the lid.

#### ■ Using the cup holder to store small items



Remove the holder.

#### ■ The position of the holder can be changed (front)



Change the position of the holder.

# **A** CAUTION

#### ■ Items unsuitable for the cup holder

Do not place anything other than cups or beverage cans in the cup holders. Other items may be thrown out of the holders in the event of an accident or sudden braking, causing injury. If possible, cover hot drinks to prevent burns.

#### ■ When not in use

Keep the cup holders closed. In the event of sudden braking, an accident may occur due to an occupant being struck by the open cup holders or the items stored inside.

# **↑** NOTICE

#### ■ To prevent damage to the rear cup holders

Stow the cup holders before stowing the armrest.

#### **Bottle holders**

#### Front



#### Rear



# ■ When using the holder as a bottle holder

- When storing a bottle, close the cap.
- The bottle may not be stored depending on its size or shape.

# **⚠** NOTICE

#### ■ Items that should not be stowed in the bottle holders

Put the cap on before stowing a bottle. Do not place open bottles in the bottle holders, or glasses and paper cups containing liquid. The contents may spill and glasses may break.

#### Auxiliary boxes

## Type A (if equipped)



Press in the lid. This box is useful for temporarily storing sunglasses and similar small items.

Type B (if equipped)



Press the button.

#### **A** CAUTION

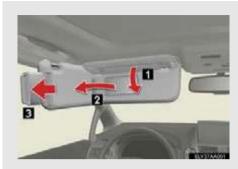
#### ■ Caution while driving

Keep the auxiliary boxes closed when not in use. In the event of sudden braking, an accident may occur due to an occupant being struck by an open auxiliary box or the items stored inside.

#### ■ Items unsuitable for storing (type A only)

Do not store items heavier than  $0.2\,\mathrm{kg}$  (0.4 lb.).

Doing so may cause the holder to open and the items inside may fall out, resulting in an accident.



- 1 To set the visor in the forward position, flip it down.
- To set the visor in the side position, flip down, unhook, and swing it to the side.
- 3 To use the side extender, place the visor in the side position, then slide it backward.

#### 3-7. Other interior features

# Vanity mirrors



Slide the cover to open.

The light turns on when the cover is opened.

# **↑** NOTICE

#### ■ To prevent 12-volt battery discharge

Do not leave the vanity lights on for extended periods while the hybrid system is off.

# Vehicles with a navigation system

Refer to the "Navigation System Owner's Manual".

#### Vehicles without navigation system



- Rounds to the nearest hour\*
- 2 Adjusts the hours
- Adjusts the minutes
  - \*: e.g.1:00 to 1:29→1:00 1:30 to 1:59→2:00

#### ■ The clock is displayed when

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

#### Power outlets

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



#### ■ The power outlet can be used when

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

## **↑** NOTICE

#### ■ To avoid damaging the power outlets

Close the power outlet lid when the power outlet is not in use. Foreign objects or liquids that enter the power outlet may cause a short circuit.

#### ■ To prevent blown fuse

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

# ■ To prevent 12-volt battery discharge

Do not use the power outlet longer than necessary when the hybrid system is off.

# Seat heaters and ventilators\*

The seat heaters and ventilators heat the seats and maintain good airflow by blowing air from the seats.

#### Seat heaters



1 Turns the seat heater on

The indicator light comes on. The higher the number is, the warmer the seat becomes.

#### Seat heaters/ventilators



Turns the seat heater on

The indicator light (green) comes on.

The higher the number is, the warmer the seat becomes.

2 Blows air from the seat

The indicator light (green) comes on.

The higher the number is, the stronger the airflow becomes.

■ The seat heaters/ventilators can be used when

The "POWER" switch is in ON mode.

■ When not in use

Set the knob at "O". The indicator light turns off.

#### **A** CAUTION

#### Burns

- Use caution when seating the following persons in a seat with the seat heater on to avoid the possibility of burns:
  - Babies, small children, the elderly, the sick and the physically challenged
  - Persons with sensitive skin.
  - · Persons who are fatiqued
  - Persons who have taken alcohol or drugs that induce sleep (sleeping drugs, cold remedies, etc.)
- Do not cover the seat with anything when using the seat heater. Using the seat heater with a blanket or cushion increases the temperature of the seat and may lead to overheating.
- Do not use the seat heater more than necessary. Doing so may cause minor burns or overheating.

#### ∧ NOTICE

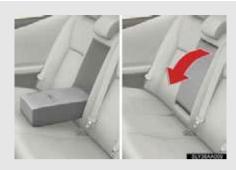
#### ■ To prevent damage to the seat heaters/ventilators

Do not put heavy objects that have an uneven surface on the seat and do not stick sharp objects (needles, nails, etc.) into the seat.

# ■ To prevent 12-volt battery discharge

Turn the seat heaters/ventilators off when the hybrid system is off.

# Armrest



Fold down the armrest for use.

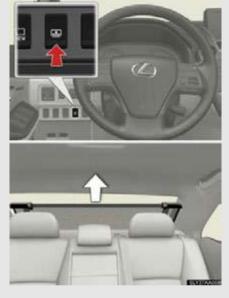
# **⚠** NOTICE

■ To prevent damage to the armrest

Do not apply too much load on the armrest.

# Rear sunshade\*

The rear sunshade can be raised and lowered by operating the button shown below.



Extends/retracts the rear sunshade

#### ■ The rear sunshade can be used when

The "POWFR" switch is in ON mode.

#### $\blacksquare$ Operating the rear sunshade after the hybrid system is turned off

The rear sunshade can be operated for approximately 1 minute even after the "POWER" switch is turned to ACCESSORY mode or turned off.

#### ■ Reverse operation feature

To ensure adequate rear visibility, the rear sunshade automatically lowers when the shift position is changed to R.

However, the rear sunshade is raised again if any of the following occurs:

- The button is pressed again.
- The shift position to changed to P.
- The shift position to changed to out of P or R, and the vehicle reaches a speed of 9 mph (15 km/h).

If the hybrid system is turned off when the rear sunshade has been lowered due to the reverse operation feature, it will not be raised even when the hybrid system is turned on again and the vehicle reaches a speed of 9 mph (15 km/h). To raise the sunshade again, press the button.

#### ■ When the reverse operation feature does not operate

The rear sunshade may not lower or rise automatically. In this case, press the switch to lower or raise the rear sunshade.

#### Customization

Settings (e.g. time elapsed before the reverse operation) can be changed. (Customizable features:  $\rightarrow$ P. 580)

#### **A** CAUTION

#### ■ When the rear sunshade is being raised or lowered

Do not place fingers or other objects in the fastener section or in the opening. They may get caught, causing injury.

# **⚠** NOTICE

#### ■ To prevent 12-volt battery discharge

Do not operate the rear sunshade when the hybrid system is off.

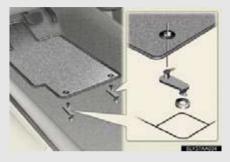
### ■ To ensure normal operation of the sunshade

Observe the following precautions:

- Do not place excessive load on the motor or other components.
- Do not place objects where they may hinder opening and closing operations.
- Do not attach items to the rear sunshade.
- Keep the opening clean and clear of obstructions.
- Do not operate the rear sunshade continuously for long periods of time.

#### Floor mat

Use only floor mats designed specifically for vehicles of the same model and model year as your vehicle. Fix them securely in place onto the carpet.



Fix the floor mat in place using the retaining hooks (clips) provided

The shape of the retaining hooks (clips) and the fixing procedure of the floor mat for your vehicle may differ from those shown in the illustration. For details, refer to the floor mat retention clip installation instructions supplied with the clips.

#### **A** CAUTION

Observe the following precautions.

Failure to do so may cause the driver's floor mat to slip, possibly interfering with the pedals while driving. An unexpectedly high speed may result or it may become difficult to stop the vehicle, leading to a serious accident.

#### ■ When installing the driver's floor mat

- Do not use floor mats designed for other models or different model year vehicles, even if they are Lexus Genuine floor mats.
- Only use floor mats designed for the driver's seat.
- Always install the floor mat securely using the retaining hooks (clips) provided.
- Do not use two or more floor mats on top of each other.
- Do not place the floor mat bottom-side up or upside-down.

# **A** CAUTION

#### ■ Before driving



- Check that the floor mat is securely fixed in the right place with all the provided retaining hooks (clips). Be especially careful to perform this check after cleaning the floor.
- With the hybrid system stopped and the P position illuminated on the shift position indicator, fully depress each pedal to the floor to make sure it dies not interfere with the floor mat.

# Trunk compartment features

# ■ Grocery bag hooks



■ First-aid kit storage belt



Secure the first-aid kit.

# ■ Luggage mat



Pull the lever upward to lift up the luggage mat.



The lever can be hooked on the edge of the trunk.

# **↑** NOTICE

■ To prevent damage to the grocery bag hooks

Do not put heavy loads on the hooks.

■ When closing the trunk

Do not leave the luggage mat lever hooked on the edge of the trunk as the luggage mat may get damaged.

# Garage door opener\*

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

The garage door opener (HomeLink  $^{\mathbb{R}}$  Universal Transceiver) is manufactured under license from HomeLink  $^{\mathbb{R}}$ .

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

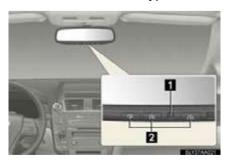
The HomeLink<sup>®</sup> compatible transceiver in your vehicle has 3 buttons which can be programmed to operate 3 different devices. Refer to the programming method below appropriate for the device.

## Overhead console type



- 1 Indicator light
- **2** Buttons

#### Inside rear view mirror type



- Indicator light
- **2** Buttons

# ■ Programming HomeLink<sup>®</sup> Overhead console type



Point the remote control transmitter for the device 1 to 3 in. (25 to 75 mm) from the HomeLink  $^{\circledR}$  buttons.

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

#### Inside rear view mirror type



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

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

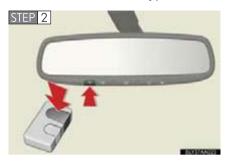
## Overhead console type



Press and hold one of the HomeLink® buttons and the transmitter button. When the HomeLink® indicator light changes from a slow to a rapid flash, you can release both buttons.

If the HomeLink  $^{\circledR}$  indicator light comes on but does not flash, or flashes rapidly for 2 seconds and remains lit, the HomeLink  $^{\circledR}$  button is already programmed. Use the other buttons or follow the "Reprogramming a HomeLink  $^{\circledR}$  button" instructions. ( $\rightarrow$ P. 393)

#### Inside rear view mirror type



Press and hold one of the HomeLink<sup>®</sup> buttons and the transmitter button. When the HomeLink<sup>®</sup> indicator light changes from a slow to a rapid flash, you can release both buttons.

#### Overhead console type



Test the HomeLink<sup>®</sup> operation by pressing the newly programmed button.

If a HomeLink<sup>®</sup> button has been programmed for a garage door, check to see if the garage door opens and closes. If the garage door does not operate, see if your garage transmitter is of the rolling code type. Press and hold the programmed HomeLink<sup>®</sup> button. The remote control transmitter is of the rolling code type if the HomeLink<sup>®</sup> indicator light flashes rapidly for 2 seconds and then remains lit. If your transmitter is the rolling code type, proceed to the heading "Programming a rolling code system".

#### Inside rear view mirror type



Test the HomeLink<sup>®</sup> operation by pressing the newly programmed button.

If a HomeLink<sup>®</sup> button has been programmed for a garage door, check to see if the garage door opens and closes. If the garage door does not operate, see if your garage transmitter is of the rolling code type. Press and hold the programmed HomeLink<sup>®</sup> button. The remote control transmitter is of the rolling code type if the HomeLink<sup>®</sup> indicator light flashes rapidly for 2 seconds and then remains lit. If your transmitter is the rolling code type, proceed to the heading "Programming a rolling code system".

Repeat the steps above to program another device for any of the remaining HomeLink<sup>®</sup> buttons.

#### ■ Programming a rolling code system (for U.S.A. owners)

If your device is rolling code equipped, follow the steps under the heading "Programming HomeLink®" before proceeding with the steps listed below.

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

Refer to the operation manual supplied with the garage door opener for the location of the training button.

STEP 2 Press the training button.

Following this step, you have 30 seconds in which to initiate step 3 below.

Press and hold the vehicle's programmed HomeLink<sup>®</sup> button for 2 seconds and release it. Repeat this step once again. The garage door may open.

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

The ceiling mounted garage door opener motor should now recognize the HomeLink  $^{\circledR}$  signal and operate the garage door.

Repeat the steps above to program another rolling code system for any of the remaining HomeLink<sup>®</sup> buttons.

# ■ Programming an entry gate (for U.S. owners)/Programming a devices in the Canadian market

- Place the remote control transmitter 1 to 3 in. (25 to 75 mm) away from the HomeLink<sup>®</sup> buttons.

  Keep the HomeLink<sup>®</sup> indicator light in view while programming.
- STEP 2 Press and hold the selected HomeLink<sup>®</sup> button.
- Repeatedly press and release (cycle) the remote control transmitter for 2 seconds each until step 4 is completed.
- STEP 4 When the HomeLink<sup>®</sup> indicator light starts to flash rapidly, release the buttons.
- Test the HomeLink<sup>®</sup> operation by pressing the newly programmed button. Check to see if the gate/device operates correctly.
- STEP 6 Repeat the steps above to program another device for any of the remaining  $HomeLink^{\textcircled{\$}}$  buttons.

## ■ Programming other devices

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

# ■ Reprogramming a button

The individual HomeLink $^{\circledR}$  buttons cannot be erased but can be reprogrammed. To reprogram a button, follow the "Reprogramming a HomeLink $^{\circledR}$  button" instructions.

# Operating HomeLink®

Press the appropriate  $\mathsf{HomeLink}^{\mathbb{R}}$  button. The  $\mathsf{HomeLink}^{\mathbb{R}}$  indicator light should come on.

The HomeLink<sup>®</sup> compatible transceiver in your vehicle continues to send a signal for up to 20 seconds as long as the button is pressed.

# Reprogramming a HomeLink® button

Press and hold the desired HomeLink<sup>®</sup> button. After 20 seconds, the HomeLink<sup>®</sup> indicator light will start flashing slowly. Next, while still pressing and holding the HomeLink<sup>®</sup> button, press and hold the button on the transmitter until the HomeLink<sup>®</sup> indicator light changes from a slow to a rapid flash.

# Erasing the entire HomeLink® memory (all three programs)

## Overhead console type



Press and hold the 2 outside buttons for 10 seconds until the indicator light flashes.

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

# Inside rear view mirror type



Press and hold the 2 outside buttons for 10 seconds until the indicator light flashes.

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

#### ■ Before programming

- Install a new battery in the remote control transmitter.
- The battery side of the remote control transmitter must be pointed away from the HomeLink<sup>®</sup> button.

#### ■ Certification for the garage door opener

For vehicles sold in the U.S.A.

Overhead console type

FCC ID: CB2070AHL4

Inside rear view mirror type

FCC ID: NZLWZLHL4

FCC ID: NZLOBIHL4

#### 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.

#### For vehicles sold in Canada

#### NOTF:

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.

#### ■ When support is necessary

Visit on the web at www.homelink.com or call 1-800-355-3515.

#### **A** CAUTION

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

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

#### ■ Conforming to federal safety standards

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

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

# Compass\*

The compass on the inside rear view mirror indicates the direction in which the vehicle is heading.

# ■ Operation

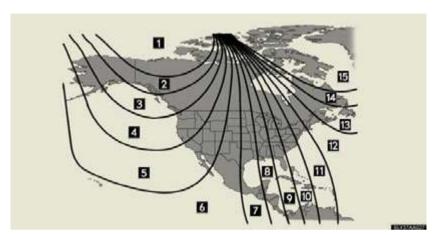


To turn the compass on or off, press the button for more than 3 seconds.

# ■ Displays and directions

Display	Direction
"N"	North
"NE"	Northeast
"E"	East
"SE"	Southeast
"S"	South
"SW"	Southwest
"W"	West
"NW"	Northwest

### Calibrating the compass



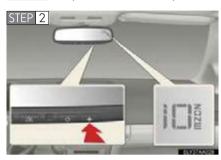
The direction display deviates from the true direction determined by the earth's magnetic field. The amount of deviation varies depending on the geographic position of the vehicle.

If you cross over one of the map boundaries shown in illustration, the compass will deviate.

To obtain higher precision or perfect calibration, refer to "Deviation calibration".

#### ■ Deviation calibration

STEP 1 Stop the vehicle in a place where it is safe to drive in a circle.

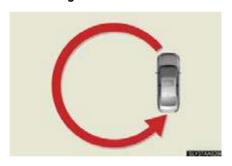


Press and hold the switch. A number (1 to 15) appears on the compass display.

STEP 3 Referring to the map above, press the switch to select the number of the zone you are in.

If the direction is displayed several seconds after adjustment, the calibration is complete.

### ■ Circling calibration



If "CAL" appears on the display, drive the vehicle at 5 mph (8 km/h) or less in a circle until a direction is displayed.

If there is not enough space to drive in a circle, drive around the block until a direction is displayed.

#### ■ Conditions unfavorable to correct operation

The compass may not show the correct direction in the following conditions:

- The vehicle is stopped immediately after turning.
- The vehicle is on an inclined surface.
- The vehicle is in a place where the earth's magnetic field is subject to interference by artificial magnetic fields (underground car park/parking lot, under a steel tower, between buildings, roof car park/parking lot, near an intersection, near a large vehicle, etc.).
- The vehicle has become magnetized. (There is a magnet or metal object near the inside rear view mirror.)
- The battery has been disconnected.
- A door is open.

### **A** CAUTION

### ■ While driving the vehicle

Do not adjust the display. Adjust the display only when the vehicle is stopped.

### ■ When doing the circling calibration

Secure a wide space, and watch out for people and vehicles in the vicinity. Do not violate any local traffic rules while performing circling calibration.

### $ilde{\mathbb{M}}$ NOTICE

### ■ To avoid compass malfunctions

Do not place magnets or any metal objects near the inside rear view mirror. Doing this may cause the compass sensor to malfunction.

### ■ To ensure normal operation of the compass

- Do not perform a circling calibration of the compass in a place where the earth's magnetic field is subject to interference by artificial magnetic fields.
- During calibration, do not operate electric systems (moon roof, power windows, etc.) as they may interfere with the calibration.

## Safety Connect

Safety Connect is a subscription-based telematics service that uses Global Positioning System (GPS) data and embedded cellular technology to provide safety and security features to subscribers. Safety Connect is supported by Lexus' designated response center, which operates 24 hours per day, 7 days per week.

Safety Connect service is available by subscription on select, telematics hardware-equipped vehicles.

By using the Safety Connect service, you are agreeing to be bound by the Telematics Subscription Service Agreement and its Terms and Conditions, as in effect and amended from time to time, a current copy of which is available at Lexus.com. All use of the Safety Connect service is subject to such then-applicable Terms and Conditions.

### ■ System components



- Microphone
- "SOS" button
- **B** LED light indicators

#### ■ Services

Subscribers have the following Safety Connect services available:

- Automatic Collision Notification\*
  Helps drivers receive necessary response from emergency service providers. (→P. 403)
  - \*: U.S. Patent No. 7,508,298 B2
- Stolen Vehicle Location
   Helps drivers in the event of vehicle theft. (→P. 403)
- Emergency Assistance Button (SOS)
   Connects drivers to response-center support. (→P. 403)
- Enhanced Roadside Assistance
   Provides drivers various on-road assistance. (→P. 403)

### ■ Subscription

After you have signed the Telematics Subscription Service Agreement and are enrolled, you can begin receiving services.

A variety of subscription terms is available for purchase. Contact your Lexus dealer, call 1-800-25-LEXUS (1-800-255-3987) or push the "SOS" button in your vehicle for further subscription details.

#### ■ Safety Connect Services Information

- Phone calls using the vehicles Bluetooth<sup>®</sup> technology will not be possible during Safety Connect.
- Safety Connect is available beginning Fall 2009 on select Lexus models. Contact with the Safety Connect response center is dependent upon the telematics device being in operative condition, cellular connection availability, and GPS satellite signal reception, which can limit the ability to reach the response center or receive emergency service support. Enrollment and Telematics Subscription Service Agreement required. A variety of subscription terms is available; charges vary by subscription term selected.
- All vehicles sold in the United States (except Hawaii) are equipped with Safety Connect. The Safety Connect services will function in the United States (except Hawaii) but will not function in Canada. For details about the service, contact your Lexus dealer.
- Safety Connect services are not subject to section 255 of the Telecommunications Act and the device is not TTY compatible.

#### Languages

The Safety Connect response center will offer support in multiple languages. The Safety Connect system will offer voice prompts in English and Spanish. Please indicate your language of choice when enrolling.

### ■ When contacting the response center

You may be unable to contact the response center if the network is busy.

### Safety Connect LED light Indicators

When the "POWER" switch is turned to ON mode, the red indicator light comes on for 2 seconds then turns off. Afterward, the green indicator light comes on, indicating that the service is active.

The following indicator light patterns indicate specific system usage conditions:

- Green indicator light on = Active service
- Green indicator light flashing = Safety Connect call in process
- Red indicator light (except at vehicle start-up) = System malfunction (contact your Lexus dealer)
- No indicator light (off) = Safety Connect service not active

### Safety Connect services

#### Automatic Collision Notification

In case of either airbag deployment or severe rear-end collision, the system is designed to automatically call the response center. The responding agent receives the vehicle's location and attempts to speak with the vehicle occupants to assess the level of emergency. If the occupants are unable to communicate, the agent automatically treats the call as an emergency, contacts the nearest emergency services provider to describe the situation, and requests that assistance be sent to the location.

#### ■ Stolen Vehicle Location

If your vehicle is stolen, Safety Connect can work with local authorities to assist them in locating and recovering the vehicle. After filing a police report, call the Safety Connect response center at 1-800-25-LEXUS (1-800-255-3987) and follow the prompts for Safety Connect to initiate this service.

In addition to assisting law enforcement with recovery of a stolen vehicle, Safety-Connect-equipped vehicle location data may, under certain circumstances, be shared with third parties to locate your vehicle. Further information is available at Lexus.com.

### ■ Emergency Assistance Button ("SOS")

In the event of an emergency on the road, push the "SOS" button to reach the Safety Connect response center. The answering agent will determine your vehicle's location, assess the emergency, and dispatch the necessary assistance required.

If you accidentally press the "SOS" button, tell the response-center agent that you are not experiencing an emergency.

### ■ Enhanced Roadside Assistance

Enhanced Roadside Assistance adds GPS data to the already included warranty-based Lexus roadside service.

Subscribers can press the "SOS" button to reach a Safety Connect response-center agent, who can help with a wide range of needs, such as: towing, flat tire, fuel delivery, etc. For a description of the Roadside Assistance services and their limitations, please see the Safety Connect Terms and Conditions, which are available at Lexus.com.

### Safety information for Safety Connect

Important! Read this information before using Safety Connect.

### ■ Exposure to radio frequency signals

The Safety Connect system installed in your vehicle is a low-power radio transmitter and receiver. It receives and also sends out radio frequency (RF) signals.

In August 1996, the Federal Communications Commission (FCC) adopted RF exposure guidelines with safety levels for mobile wireless phones. Those guidelines are consistent with the safety standards previously set by the following U.S. and international standards bodies.

- ANSI (American National Standards Institute) C95.1 [1992]
- NCRP (National Council on Radiation Protection and Measurement) Report 86 [1986]
- ICNIRP (International Commission on Non-Ionizing Radiation Protection) [1996]

Those standards were based on comprehensive and periodic evaluations of the relevant scientific literature. Over 120 scientists, engineers, and physicians from universities, and government health agencies and industries reviewed the available body of research to develop the ANSI Standard (C95.1).

The design of Safety Connect complies with the FCC guidelines in addition to those standards.

#### License

Licensed by QUALCOMM Incorporated under one or more of the following United States Patents and/or their counterparts in other nations:

4,901,307 5,490,165 5,056,109 5,504,773 5,101,501 5,506,865 5,109,390 5,511,073 5,228,054 5,535,239 5,267,261 5,544,196 5,267,262 5,568,483 5,337,338 5,600,754 5,414,796 5,657,420 5,416,797 5,659,569 5,710,784 5,778,338

### ■ Certification for Lexus Enform with Safety Connect

FCC ID: O9EGTM1

FCC ID: O6Y-CDMRF101

#### 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.

4-1. Maintenance and care	4-3. Do-it-yourself maintenance
Cleaning and protecting the vehicle exterior	Do-it-yourself service precautions
4-2. Maintenance  Maintenance requirements	12-volt battery       43         Tires       44         Tire inflation pressure       45         Wheels       45         Air conditioning filter       45         Electronic key battery       45         Checking and replacing fuses       46         Headlight aim

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Light bulbs......475

## Cleaning and protecting the vehicle exterior

# Perform the following to protect the vehicle and maintain it in prime condition:

- Working from top to bottom, liberally apply water to the vehicle body, wheel wells and underside of the vehicle to remove any dirt and dust.
- Wash the vehicle body using a sponge or soft cloth, such as a chamois.
- For hard-to-remove marks, use car wash soap and rinse thoroughly with water.
- Wipe away any water.
- Wax the vehicle when the waterproof coating deteriorates.

If water does not bead on a clean surface, apply wax when the vehicle body is cool.

#### ■ Automatic car washes

- Fold the mirrors before washing the vehicle. Start washing from the front of the vehicle. Make sure to extend the mirrors before driving.
- Roof antenna, rear spoiler (if equipped) may not be washable in some automatic car washes. There may also be an increased risk of damage to vehicle.
- Brushes used in automatic car washes may scratch the vehicle surface and harm your vehicle's paint.

#### ■ High pressure car washes

- Do not allow the nozzles of the car wash to come within close proximity of the windows.
- Before using the car wash, check that the fuel filler door on your vehicle is closed properly.

#### ■ When using a car wash

If the door handle becomes wet while the electronic key is within the effective range, the door may lock and unlock repeatedly. Place the key in a position 6 ft. (2 m) or more separate from the vehicle while the vehicle is being washed. (Take care to ensure that the key is not stolen.)

#### Aluminum wheels

- Remove any dirt immediately by using a neutral detergent. Do not use hard brushes or abrasive cleaners. Do not use strong or harsh chemical cleaners. Use the same mild detergent and wax as used on the paint.
- Do not use detergent on the wheels when they are hot, for example after driving for long distance in the hot weather.
- Wash detergent from the wheels immediately after use.

#### ■ Bumpers and side moldings

Do not scrub with abrasive cleaners.

#### ■ Side windows water-repellent coating

- The following precautions can extend the effectiveness of the water-repellent coating.
  - Remove any dirt, etc. from the side windows regularly.
  - Do not allow dirt and dust to accumulate on the windows for a long period.
     Clean the windows with a soft, damp cloth as soon as possible.
  - Do not use wax or glass cleaners that contain abrasives when cleaning the windows.
  - Do not use any metallic objects to remove condensation build up.
- When the water-repellent performance has become insufficient, the coating can be repaired. Contact your Lexus dealer.

### Outside rear view mirror rain-clearing coating (if equipped)

Observe the following precautions in order to retain the rain-clearing properties of the mirrors:

- Clean the mirrors using a car shampoo or glass cleaner that does not contain silicone or an abrasive compound, and rinse thoroughly with water.
- Allow the mirrors to be exposed to direct sunlight for 1 to 2 days.

### **A** CAUTION

#### ■ When washing the vehicle

Do not apply water to the inside of the engine compartment. Doing so may cause the electrical components etc. to catch fire.

#### ■ Precautions regarding the exhaust pipe

Exhaust gases cause the exhaust pipe to become guite hot.

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

### **↑** NOTICE

- To prevent paint deterioration and corrosion on the body and components (aluminum wheels etc.)
  - Wash the vehicle immediately in the following cases:
    - · After driving near the sea coast
    - After driving on salted roads
    - If you see coal tar or tree sap on the paint surface
    - If you see dead insects, insect droppings or bird droppings on the paint
    - After driving in an area contaminated with soot, oily smoke, mine dust, iron powder or chemical substances
    - · If the vehicle becomes heavily soiled in dust or mud
    - If liquids such as benzene and gasoline are spilled on the paint surface
  - If the paint is chipped or scratched, have it repaired immediately.
  - To prevent the wheels from corroding, remove any dirt and store in a place with low humidity when storing the wheels.
- Cleaning the exterior lights
  - Wash carefully. Do not use organic substances or scrub with a hard brush.
     This may damage the surface of the lights.
  - Do not apply wax to the surfaces of the lights.
     Wax may cause damage to the lenses.
- When using an automatic car wash (vehicles with rain-sensing windshield wipers)



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

■ High pressure car washes (with wide view front monitor system and/or rear view monitor system)

When washing the vehicle, do not apply intensive bursts of water to the camera or camera area. Doing so may result in the camera malfunctioning.

## Cleaning and protecting the vehicle interior

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

### Protecting the vehicle interior

Remove dirt and dust using a vacuum cleaner. Wipe dirty surfaces with a cloth dampened with lukewarm water.

### Cleaning the leather areas

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

### Cleaning the synthetic leather areas

- Remove loose dirt using a vacuum cleaner.
- Apply a mild soap solution to the synthetic leather using a sponge or soft cloth.
- Allow the solution to soak in for a few minutes. Remove the dirt and wipe off the solution with a clean, damp cloth.

#### ■ Caring for leather areas

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

### ■ Shampooing the carpets

There are several commercial foaming-type cleaners available. Use a sponge or brush to apply the foam. Rub in overlapping circles. Do not use water. Wipe dirty surfaces and let them dry. Excellent results are obtained by keeping the carpet as dry as possible.

#### ■ Seat belts

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

### **A** CAUTION

#### ■ Water in the vehicle

- Do not splash or spill liquid in the vehicle, such as on the floor, in the hybrid battery (traction battery) air vents, and in the trunk.
  - Doing so may cause the hybrid battery, electrical components, etc. to malfunction or catch fire.
- Do not get any of the SRS components or wiring in the vehicle interior wet.  $(\rightarrow P. 108)$ 
  - An electrical malfunction may cause the airbags to deploy or not function properly, resulting in death or serious injury.

### Cleaning the interior (especially instrument panel)

Do not use polish wax or polish cleaner. The instrument panel may reflect off the windshield, obstructing the driver's view and leading to an accident, resulting in death or serious injury.

## **⚠** NOTICE

#### ■ Cleaning detergents

- Do not use the following types of detergent, as they may discolor the vehicle interior or cause streaks or damage to painted surfaces:
  - Non-seat portions: Organic substances such as benzene or gasoline, alkaline or acidic solutions, dye, and bleach
  - Seats: Alkaline or acidic solutions, such as thinner, benzene, and alcohol
- Do not use polish wax or polish cleaner. The instrument panel's or other interior part's painted surface may be damaged.

#### ■ Preventing damage to leather surfaces

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

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

#### ■ Water on the floor

Do not wash the vehicle floor with water.

Vehicle systems such as the audio system may be damaged if water comes into contact with electrical components such as the audio system above or under the floor of the vehicle. Water may also cause the body to rust.

### ■ Cleaning the inside of the rear window

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

## Maintenance requirements

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

#### ■ General maintenance

General maintenance should be performed on a daily basis. This can be done by yourself or by a Lexus dealer.

#### Scheduled maintenance

Scheduled maintenance should be performed at specified intervals according to the maintenance schedule.

For details about maintenance items and schedules, refer to the "Warranty and Service Guide", "Owner's Manual Supplement" or "Scheduled Maintenance".

### ■ Do-it-yourself maintenance

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

The use of Lexus repair manuals is recommended.

For details about warranty coverage, refer to the separate "Owner's Guide", "Warranty and Service Guide", "Owner's Manual Supplement" or "Warranty Booklet".

### ■ Repair and replacement

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

#### ■ Allow inspection and repairs to be performed by a Lexus dealer

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

### **A** CAUTION

### ■ If your vehicle is not properly maintained

Improper maintenance could result in serious damage to the vehicle and possible serious injury or death.

#### ■ Handling of the 12-volt battery

- Engine exhaust, some of its constituents, and a wide variety of automobile components contain or emit chemicals known to the State of California to cause cancer and birth defects and other reproductive harm. Work in a well ventilated area.
- Oils, fuels and fluids contained in vehicles as well as waste produced by component wear contain or emit chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. Avoid exposure and wash any affected area immediately.
- 12-volt battery posts, terminals and related accessories contain lead and lead compounds which are known to cause brain damage. Wash your hands after handling. (→P. 439)

## General maintenance

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

### Engine compartment

ltems	Check points
Brake fluid	Is the brake fluid at the correct level? $(\rightarrow P.437)$
Coolant	Is the engine coolant at the correct level? $(\rightarrow P. 434)$
Engine oil	Is the engine oil at the correct level? $(\rightarrow P.430)$
Exhaust system	There should not be any fumes or strange sounds.
Radiator/condenser	The radiator and condenser should be free from foreign objects. $(\rightarrow P.436)$
Washer fluid	Is there sufficient washer fluid? $(\rightarrow P.438)$

### Trunk

ltems	Check points
12-volt battery	Check the connections. $(\rightarrow P. 439)$

### Vehicle interior

ltems	Check points
Accelerator pedal	<ul> <li>The accelerator pedal should move smoothly (without uneven pedal effort or catching).</li> </ul>
Brake pedal	<ul> <li>Does the brake pedal move smoothly?</li> <li>Does the brake pedal have appropriate clearance from the floor? (→P. 562)</li> <li>Does the brake pedal have the correct amount of free play? (→P. 562)</li> </ul>
Brakes	<ul> <li>The vehicle should not pull to one side when the brakes are applied.</li> <li>The brakes should work effectively.</li> <li>The brake pedal should not feel spongy.</li> <li>The brake pedal should not get too close to the floor when the brakes are applied.</li> </ul>
Head restraints	<ul> <li>Do the head restraints move smoothly and lock securely?</li> </ul>
Hybrid transmission "Park" mechanism	<ul> <li>Can the vehicle be held securely on an incline with the shift position in P?</li> </ul>
Indicators/buzzers	<ul> <li>Do the indicators and buzzers function properly?</li> </ul>
Lights	<ul> <li>Do all the lights come on?</li> <li>Are the headlights aimed correctly? (→P. 473)</li> </ul>

ltems	Check points
Parking brake	<ul> <li>Does the parking brake pedal move smoothly?</li> <li>When parked on a slope and the parking brake is on, is the vehicle securely stopped?</li> </ul>
Seat belts	<ul><li>Do the seat belts operate smoothly?</li><li>The seat belts should not be damaged.</li></ul>
Seats	• Do the seat controls operate properly?
Steering wheel	<ul> <li>Does the steering wheel rotate smoothly?</li> <li>Does the steering wheel have the correct amount of free play?</li> <li>There should not be any strange sounds coming from the steering wheel.</li> </ul>

### Vehicle exterior

ltems	Check points
Doors/trunk	• Do the doors and trunk operate smoothly?
Engine hood	• Does the engine hood lock system work properly?
Fluid leaks	<ul> <li>There should not be any signs of fluid leakage after the vehicle has been parked.</li> </ul>
Tires	<ul> <li>Is the tire inflation pressure correct?</li> <li>The tires should not be damaged or excessively worn.</li> <li>Have the tires been rotated according to the maintenance schedule?</li> <li>The wheel nuts should not be loose.</li> </ul>

### **A** CAUTION

### ■ If the hybrid system is operating

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

## Emission inspection and maintenance (I/M) programs

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

If the malfunction indicator lamp comes on

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

- Your vehicle may not pass the I/M test in the following situations:
  - When the 12-volt battery is disconnected or discharged

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

When the fuel tank cap is loose

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

When the malfunction indicator lamp still remains on after several driving trips

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

If your vehicle does not pass the I/M test

Contact your Lexus dealer to prepare the vehicle for re-testing.

# **Do-it-yourself service precautions**

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

Items	Parts and tools
12-volt battery condition ( $\rightarrow$ P. 439)	<ul><li> Grease</li><li> Conventional wrench (for terminal clamp bolts)</li></ul>
Brake fluid level (→P. 437)	<ul> <li>FMVSS No.116 DOT 3 or SAE J1703 brake fluid</li> <li>Rag or paper towel</li> <li>Funnel (used only for adding brake fluid)</li> </ul>
Engine/power control unit coolant level (→P. 434)	<ul> <li>"Toyota Super Long Life Coolant" or a similar high quality ethylene glycol based non-silicate, non-amine, non-nitrite and non-borate coolant with long-life hybrid organic acid technology.</li> <li>For the U.S.A.: "Toyota Super Long Life Coolant" is pre-mixed with 50% coolant and 50% deionized water.</li> <li>For Canada: "Toyota Super Long Life Coolant" is pre-mixed with 55% coolant and 45% deionized water.</li> <li>Funnel (used only for adding coolant)</li> </ul>

ltems		Parts and tools
Engine oil level	(→P.430)	<ul> <li>"Toyota Genuine Motor Oil" or equivalent</li> <li>Rag or paper towel</li> <li>Funnel (used only for adding engine oil)</li> </ul>
Fuses	(→P. 461)	• Fuse with same amperage rating as original
Headlight aim	(→P. 473)	Phillips-head screwdriver
Light bulbs	(→P. 475)	<ul> <li>Bulb with same number and wattage rating as original</li> <li>Phillips-head screwdriver</li> <li>Flathead screwdriver</li> <li>Wrench</li> </ul>
Radiator and condenser	(→P. 436)	_
Tire inflation pressure	(→P. 451)	<ul><li>Tire pressure gauge</li><li>Compressed air source</li></ul>
Washer fluid	(→P. 438)	<ul> <li>Water or washer fluid containing antifreeze (for winter use)</li> <li>Funnel (used only for adding water or washer fluid)</li> </ul>

### **CAUTION**

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

#### When working on the engine compartment

- Make sure that the indicator on the "POWER" switch and the "READY" indicator. are both off
- Keep hands, clothing and tools away from the moving fans and engine drive belt.
- Be careful not to touch the engine, power control unit, radiator, exhaust manifold. etc. right after driving as they may be hot. Oil and other fluids may also be hot.
- Do not leave anything that may burn easily, such as paper and rags, in the engine compartment.
- Do not smoke, cause sparks or expose an open flame to fuel. Fuel fumes are flammable

#### ■ When working near the electric cooling fans or radiator grille

Be sure the "POWER" switch is off.

With the "POWER" switch in ON mode, the electric cooling fans may automatically start to run if the air conditioning is on and/or the coolant temperature is high.  $(\to P.436)$ 

### ■ Safety glasses

Wear safety glasses to prevent flying or falling material, fluid spray, etc. from getting in your eyes.

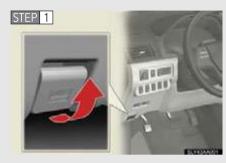


#### ∧ NOTICE

### ■ If you remove the air cleaner filter

Driving with the air cleaner filter removed may cause excessive engine wear due to dirt in the air. Also, a backfire could cause a fire in the engine compartment.

### Release the lock from the inside of the vehicle to open the hood.



Pull the hood lock release lever.

The hood will pop up slightly.



Pull up the auxiliary catch lever and lift the hood.

### **A** CAUTION

### ■ Pre-driving check

Check that the hood is fully closed and locked.

If the hood is not locked properly, it may open while the vehicle is in motion and cause an accident, which may result in death or serious injury.

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

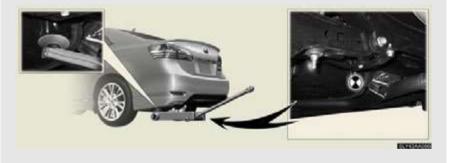
# Positioning a floor jack

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

### Front



### Rear



### **A** CAUTION

#### When raising your vehicle

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



 Lift up the vehicle using a floor tack such as the one shown in the illustration.

- When using a floor jack, follow the instructions of the manual provided with the jack.
- Do not use the jack that was supplied with your vehicle.
- Do not put any part of your body underneath the vehicle when it is supported only by the floor jack.
- Always use floor jack and/or automotive jack stands on a solid, flat, level surface.
- Do not start the hybrid system while the vehicle is supported by the floor jack.
- Stop the vehicle on level, firm ground, firmly set the parking brake and push the P position switch.
- Make sure to set the floor jack properly at the jack point. Raising the vehicle with an improperly positioned floor jack will damage the vehicle and may cause the vehicle to fall off the floor jack.
- Do not raise the vehicle while someone is in the vehicle.
- When raising the vehicle, do not place any object on top of or underneath the floor jack.

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

### **Engine compartment**



1 Engine coolant reservoir

 $(\to P.434)$ 

2 Engine oil filler cap

 $(\rightarrow P.431)$ 

Engine oil level dipstick

(→P. 430)

Power control unit coolant reservoir  $(\rightarrow P. 434)$ 

**5** Brake fluid reservoir

 $(\rightarrow P.437)$ 

6 Fuse box

 $(\to P. 461)$ 

**Z** Engine coolant radiator

 $(\rightarrow P.436)$ 

Power control unit coolant radiator  $(\rightarrow P.436)$ 

**9** Condenser  $(\rightarrow P. 436)$ 

Electric cooling fans

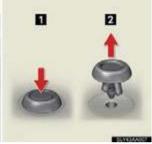
Washer fluid tank

 $(\rightarrow P.438)$ 

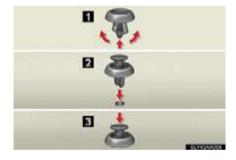
### Engine compartment cover

■ Removing the engine compartment cover





■ Installing the clips



### **⚠** NOTICE

■ After installing an engine compartment cover

Make sure that the cover is securely installed in its original position.

### Engine oil

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

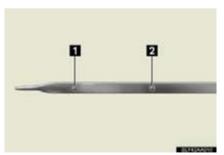
### Checking the engine oil

Park the vehicle on level ground. After turning off the hybrid system, wait more than 5 minutes for the oil to drain back into the bottom of the engine.



Holding a rag under the end, pull the dipstick out.

- STEP 3 Wipe the dipstick clean.
- STEP 4 Reinsert the dipstick fully.
- STEP 5 Holding a rag under the end, pull the dipstick out and check the oil level.
- STEP 6 Wipe the dipstick and reinsert it fully.



1 Low 2 Full

### Adding engine oil



If the oil level is below or near the low level mark, add engine oil of the same type as that already in the engine.

Make sure to check the oil type and prepare the items needed before adding oil.

Engine oil selection	→P. 559
Oil quantity $(Low \rightarrow Full)$	1.2 qt. (1.1 L, 1.0 lmp. qt.)
ltems	Clean funnel

STEP 1 Remove the oil filler cap by turning it counterclockwise.

STEP 2 Add engine oil slowly, checking the dipstick.

STEP 3 Install the oil filler cap by turning it clockwise.

#### ■ Engine oil consumption

- The amount of engine oil consumed depends on the oil viscosity, the quality of the oil and the way the vehicle is driven.
- More oil is consumed under driving conditions such as high speeds and frequent acceleration and deceleration.
- A new engine consumes more oil.
- When judging the amount of oil consumption, keep in mind that the oil may have become diluted, making it difficult to judge the true level accurately.
- Oil consumption: Max. 1.1 qt./600 miles, 0.9 lmp. qt./600 miles (1.0 L per 1000 km)
- If your vehicle consumes more than 1.1 qt. (1.0 L, 0.9 lmp. qt.) every 600 miles (1000 km), contact your Lexus dealer.

### ■ After changing the engine oil (U.S.A. only)

The engine oil maintenance data should be reset. Perform the following procedures:

- STEP 1 Switch the display to the trip meter "A" when the hybrid system is operating.  $(\rightarrow P. 165)$
- STEP 2 Turn the "POWER" switch off.
- STEP 3 While pressing the trip meter reset button (→P. 165), turn the "POWER" switch to ON mode (do not start the hybrid system because otherwise the reset mode will be canceled). Continue to press and hold the button until the trip meter displays "00000" and the multi-information display indicates that the reset is complete.

### **A** CAUTION

#### Used engine oil

- Used engine oil contains potentially harmful contaminants which may cause skin. disorders such as inflammation and skin cancer, so care should be taken to avoid prolonged and repeated contact. To remove used engine oil from your skin, wash thoroughly with soap and water.
- Dispose of used oil and filters only in a safe and acceptable manner. Do not dispose of used oil and filters in household trash, in sewers or onto the ground. Call your Lexus dealer, service station or auto parts store for information concerning recycling or disposal.
- Do not leave used engine oil within the reach of children.



#### ∧ NOTICE

#### ■ To prevent serious engine damage

Check the oil level on a regular basis.

- When replacing the engine oil
  - Be careful not to spill engine oil on the vehicle components.
  - Avoid overfilling, or the engine could be damaged.
  - Check the oil level on the dipstick every time you refill the vehicle.
  - Be sure the engine oil filler cap is properly tightened.

### Coolant

The coolant level is satisfactory if it is between the "FULL" and "LOW" lines on the reservoir when the hybrid system is cold.

### Engine coolant reservoir





- 1 Reservoir cap
- 2 "FULL" line
- **3** "LOW" line

If the level is on or below the "LOW" line, add coolant up to the "FULL" line.  $(\rightarrow P.560)$ 

#### Power control unit coolant reservoir



- 11 Reservoir cap
- 2 "FULL" line
- **3** "LOW" line

If the level is on or below the "LOW" line, add coolant up to the "FULL" line. (→P. 560)

#### ■ Coolant selection

Only use "Toyota Super Long Life Coolant" or a similar high quality ethylene glycol based non-silicate, non-amine, non-nitrite, and non-borate coolant with long-life hybrid organic acid technology.

U.S.A.: "Toyota Super Long Life Coolant" is a mixture of 50% coolant and 50% deionized water. (Minimum temperature:  $-31^{\circ}F$  [-35°C])

Canada: "Toyota Super Long Life Coolant" is a mixture of 55% coolant and 45% deionized water. (Minimum temperature: -44°F [-42°C])

For more details about coolant, contact your Lexus dealer.

### ■ If the coolant level drops within a short time of replenishing

Visually check the radiators, hoses, engine/power control unit coolant reservoir caps, drain cock and water pump.

If you cannot find a leak, have your Lexus dealer test the cap and check for leaks in the cooling systems.



#### **A** CAUTION

#### ■ When the hybrid system is hot

Do not remove the engine/power control unit coolant reservoir caps.

The cooling system may be under pressure and may spray hot coolant if the cap is removed, causing burns or other injuries.



#### NOTICE

#### ■ When adding coolant

Coolant is neither plain water nor straight antifreeze. The correct mixture of water and antifreeze must be used to provide proper lubrication, corrosion protection and cooling. Be sure to read the antifreeze or coolant label.

### If you spill coolant

Be sure to wash it off with water to prevent it from damaging parts or paint.

### Radiator and condenser

Check the radiator and condenser and clear away any foreign objects. If either of the above parts is extremely dirty or you are not sure of their condition, have your vehicle inspected by your Lexus dealer.



#### **A** CAUTION

### ■ When the hybrid system is hot

Do not touch the radiators or condenser as they may be hot and cause burns.

#### Brake fluid

### Checking fluid level



The brake fluid level should be between the "MAX" and "MIN" lines on the tank.

### Adding fluid

Make sure to check the fluid type and prepare the necessary item.

Fluid type	FMVSS No.116 DOT 3 or SAE J1703 brake fluid	
ltems	Clean funnel	

#### ■ Brake fluid can absorb moisture from the air

Excess moisture in the brake fluid can cause a dangerous loss of braking efficiency. Use only newly opened brake fluid.

### **A** CAUTION

### ■ When filling the reservoir

Take care as brake fluid can harm your hands and eyes and damage painted surfaces.

If fluid gets on your hands or in your eyes, flush the affected area with clean water immediately.

If you still experience discomfort, see a doctor.

## **⚠** NOTICE

### ■ If the fluid level is low or high

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

If the reservoir needs frequent refilling, there may be a serious problem.

#### Washer fluid



If any washer does not work or the warning message appears on the multi-information display, the washer tank may be empty. Add washer fluid.

### **A** CAUTION

### ■ When adding washer fluid

Do not add washer fluid when the hybrid system is hot or operating as washer fluid contains alcohol and may catch fire if spilled on the engine etc.

### **↑** NOTICE

### ■ Do not use any fluid other than washer fluid

Do not use soapy water or engine antifreeze instead of washer fluid.

Doing so may cause streaking on the vehicle's painted surfaces.

### Diluting washer fluid

Dilute washer fluid with water as necessary.

Refer to the freezing temperatures listed on the washer fluid tank.

## 12-volt battery

### Location



The 12-volt battery is located on the right-hand side of the luggage compartment.

### Open the cover



Lift up the hook and remove the panel.



Open the cover.

#### Exterior

Make sure that the 12-volt battery terminals are not corroded and that there are no loose connections, cracks or loose clamps.



- 11 Terminals
- 2 Hold-down clamp

#### ■ Before recharging

When recharging, the 12-volt battery produces hydrogen gas which is flammable and explosive. Therefore, observe the following precautions before recharging:

- If recharging with the 12-volt battery installed on the vehicle, be sure to disconnect the ground cable.
- Make sure the power switch on the charger is off when connecting and disconnecting the charger cables to the 12-volt battery.

### ■ After recharging/reconnecting the 12-volt battery

- Unlocking the doors using the smart key system may not be possible immediately after reconnecting the 12-volt battery. If this happens, use the wireless remote control or the mechanical key to lock/unlock the doors.
- Start the hybrid system with the "POWER" switch in ACCESSORY mode. The hybrid system may not start with the "POWER" switch turned OFF. However, the hybrid system will operate normally from the second attempt.
- The "POWER" switch mode is recorded by the vehicle. If the battery is reconnected, the vehicle will return the "POWER" switch mode to the status it was in before the battery was disconnected. Make sure to turn off the power before disconnect the battery. Take extra care when connecting the battery if the "POWER" switch mode prior to discharge is unknown.

• When the 12-volt battery is reconnected, start the hybrid system, depress the brake pedal and confirm that it is possible to shift into each shift position.

If the system will not start even after multiple attempts, contact your Lexus dealer.

### **A** CAUTION

### ■ Chemicals in the 12-volt battery

The 12-volt battery contains poisonous and corrosive sulfuric acid and may produce hydrogen gas which is flammable and explosive. To reduce the risk of death or serious injury, take the following precautions while working on or near the 12-volt battery:

- Do not cause sparks by touching the 12-volt battery terminals with tools.
- Do not smoke or light a match near the 12-volt battery.
- Avoid contact with eyes, skin and clothes.
- Never inhale or swallow electrolyte.
- Wear protective safety glasses when working near the 12-volt battery.
- Keep children away from the 12-volt battery.
- Where to safely charge the 12-volt battery

Always charge the 12-volt battery in an open area. Do not charge the 12-volt battery in a garage or closed room where there is insufficient ventilation.

### ■ How to recharge the 12-volt battery

Only perform a slow charge (5 A or less). The 12-volt battery may explode if charged at a quicker rate.

#### **A** CAUTION

### ■ Emergency measures regarding electrolyte

- If electrolyte aets in your eyes Flush your eyes with clean water for at least 15 minutes and get immediate medical attention. If possible, continue to apply water with a sponge or cloth while traveling to the nearest medical facility.
- If electrolyte gets on your skin Wash the affected area thoroughly. If you feel pain or burning, get medical attention immediately.
- If electrolyte gets on your clothes It can soak through clothing on to your skin. Immediately take off the clothing and follow the procedure above if necessary.
- If you accidentally swallow electrolyte Drink a large quantity of water or milk. Get emergency medical attention immediately.

#### ■ When replacing the 12-volt battery

Use a 12-volt battery designed for this vehicle. Failure to do so may cause gas (hydrogen) to enter the passenger compartment, causing a fire or explosion.

For replacement of the 12-volt battery, contact your Lexus dealer.



#### **NOTICE**

### ■ When recharging the 12-volt battery

Never recharge the 12-volt battery while the hybrid system is operating. Also, be sure all accessories are turned off.

# Replace or rotate tires in accordance with maintenance schedules and

■ Checking tires

treadwear.

**Tires** 

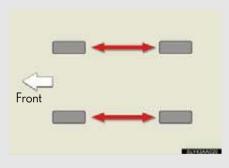


- New tread
- Treadwear indicator
- **13** Worn tread

The location of treadwear indicators is shown by the "TWI" or " $\Delta$ " marks, etc., molded on the sidewall of each tire.

Check spare tire condition and pressure if not rotated.

#### ■ Tire rotation



Rotate the tires in the order shown.

To equalize tire wear and extend tire life, Lexus recommends that tire rotation is carried out at the same interval as tire inspection.

#### P225/45R18 91W tires:

Do not fail to initialize the tire pressure warning system after tire rotation.

### ■ Tire pressure warning system

Your vehicle is equipped with a tire pressure warning system that uses tire pressure warning valves and transmitters to detect low tire inflation pressure before serious problems arise. ( $\rightarrow$ P. 501, 510, 511)

### Installing tire pressure warning valves and transmitters

When replacing tires or wheels, tire pressure warning valves and transmitters must also be installed.

When new tire pressure warning valves and transmitters are installed, new ID codes must be registered in the tire pressure warning computer and the tire pressure warning system must be initialized. Have tire pressure warning valve and transmitter ID codes registered by your Lexus dealer.  $(\rightarrow P. 445)$ 

### Initializing the tire pressure warning system

- The tire pressure warning system must be initialized in the following circumstances:
  - Vehicles with P225/45R18 91W tires: When rotating front and rear tires which have different tire inflation pressures
  - When changing the tire size

When the tire pressure warning system is initialized, the current tire inflation pressure is set as the benchmark pressure.

### ■ How to initialize the tire pressure warning system

- Park the vehicle in a safe place and turn the "POWER" switch off. Initialization cannot be performed while the vehicle is moving.
- STEP 2 Adjust the tire inflation pressure to the specified cold tire inflation pressure level.  $(\rightarrow P. 563)$

Make sure to adjust the tire pressure to the specified cold tire inflation pressure level. The tire pressure warning system will operate based on this pressure level.

- STEP 3 Turn the "POWER" switch to ON mode.
- Press and hold the tire pressure warning reset switch until the tire pressure warning light flashes slowly 3 times and the message "TIRE PRESSURE RESET PROCEEDING" appears on the multi-information display.



STEP 5 Wait for a few minutes with the "POWER" switch in ON mode and then turn the "POWER" switch off.

### Registering ID codes

The tire pressure warning valve and transmitter is equipped with a unique ID code. When replacing a tire pressure warning valve and transmitter, it is necessary to register the ID code. Have the ID code registered by your Lexus dealer.

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

Tires should be replaced if:

- You have tire damage such as cuts, splits, cracks deep enough to expose the fabric, and bulges indicating internal damage.
- A tire goes flat repeatedly or cannot be properly repaired due to the size or location of a cut or other damage.

If you are not sure, consult with your Lexus dealer.

#### ■ Replacing tires and wheels

If the ID code of the tire pressure warning valve and transmitter is not registered, the tire pressure warning system will not work properly. After driving for about 20 minutes, the tire pressure warning light flashes for 1 minute and stays on to indicate a system malfunction.

#### ■ Tire life

Any tire over 6 years old must be checked by a qualified technician even if it has seldom or never been used or damage is not obvious.

#### ■ Routine tire inflation pressure checks

The tire pressure warning system does not replace routine tire inflation pressure checks. Make sure to check tire inflation pressure as part of your routine of daily vehicle checks.

### ■ Low profile tires (vehicles with P225/45R18 91W tires)

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

#### ■ Maximum load of tire

Check that the maximum load of the replacement tire is greater than 1/2 of the Gross Axle Weight Ratings (GAWR) of either the front axle or the rear axle, whichever is greater.



For the GAWR, see the Certification Label. For the maximum load of the tire, see the load limit at maximum cold tire inflation pressure mentioned on the sidewall of the tire.  $(\rightarrow P. 568)$ 

### ■ Tire types

#### Summer tires

Summer tires are high-speed performance tires best suited to highway driving under dry conditions. Since summer tires do not have the same traction performance as snow tires, summer tires are inadequate for driving on snow-covered or icy roads. For driving on snow-covered roads or icy roads, the use of snow tires is recommended. When installing snow tires, be sure to replace all four tires.

#### All season tires

All season tires are designed to provide better traction in snow and to be adequate for driving in most winter conditions as well as for use year-round. All season tires, however, do not have adequate traction performance compared with snow tires in heavy or loose snow. Also, all season tires fall short in acceleration and handling performance compared with summer tires in highway driving.

#### Snow tires

For driving on snow-covered roads or icy roads, we recommend using snow tires. If you need snow tires, select tires of the same size, construction and load capacity as the originally installed tires. Since your vehicle has radial tires as original equipment, make sure your snow tires also have radial construction. Do not install studded tires without first checking local regulations for possible restrictions. Snow tires should be installed on all wheels.  $(\rightarrow P. 249)$ 

### ■ Initializing the tire pressure warning system

Initialize the system with the tire inflation pressure adjusted to the specified level.

### ■ If the tread on snow tires wears down below 0.16 in. (4 mm)

The effectiveness of the tires as snow tires is lost.

#### ■ If you press the tire pressure warning reset switch accidentally

If initialization is performed, adjust the tire inflation pressure to the specified level and initialize the tire pressure warning system again.

#### ■ When the initialization of the tire pressure warning system has failed

Initialization can be completed in a few minutes. However, in the following cases, the settings have not been recorded and the system will not operate properly. If repeated attempts to record tire inflation pressure settings are unsuccessful, have the vehicle inspected by your Lexus dealer.

- When operating the tire pressure warning reset switch, the tire pressure warning light does not flash 3 times and the setting message does not appear on the multi-information display.
- After carrying out the initialization procedure, the tire pressure warning light flashes for 1 minute then stays on after driving for 20 minutes.

#### ■ Tire pressure warning system certification

#### MODEL/FCC IDs:

Transmitter: PAXPMV107J Receiver: HYQ13BCX For vehicles sold in the 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.

#### For vehicles sold in 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.

#### **A** CAUTION

#### When inspecting or replacing tires

Observe the following precautions to prevent accidents. Failure to do so may cause damage to parts of the drive train as well as dangerous handling characteristics, which may lead to an accident resulting in death or serious injury.

- Do not mix tires of different makes, models or tread patterns. Also, do not mix tires of remarkably different treadwear.
- Do not use tire sizes other than those recommended by Lexus.
- Do not mix differently constructed tires (radial, bias-belted or bias-ply tires).
- Do not mix summer, all season and snow tires.
- Do not use tires that have been used on another vehicle. Do not use tires if you do not know how they were used previously.

### ■ When initializing the tire pressure warning system

Do not operate the tire pressure warning reset switch without first adjusting the tire inflation pressure to the specified level. Otherwise, the tire pressure warning light may not come on even if the tire inflation pressure is low, or it may come on when the tire inflation pressure is actually normal.

## **⚠** NOTICE

### Repairing or replacing tires, wheels, tire pressure warning valves, transmitters and tire valve caps

- When removing or fitting the wheels, tires or the tire pressure warning valves and transmitters, contact your Lexus dealer as the tire pressure warning valves and transmitters may be damaged if not handled correctly.
- When replacing tire valve caps, do not use tire valve caps other than those specified. The cap may become stuck.

#### ■ To avoid damage to the tire pressure warning valves and transmitters

When a tire is repaired with liquid sealants, the tire pressure warning valve and transmitter may not operate properly. If a liquid sealant is used, contact your Lexus dealer or other qualified service shop as soon as possible. Make sure to replace the tire pressure warning valve and transmitter when replacing the tire.  $(\rightarrow P. 444)$ 

#### ■ Driving on rough roads

Take particular care when driving on roads with loose surfaces or potholes. These conditions may cause losses in tire inflation pressure, reducing the cushioning ability of the tires. In addition, driving on rough roads may cause damage to the tires themselves, as well as the vehicle's wheels and body.

### ■ Low profile tires (vehicles with P225/45R18 91W tires)

Low profile tires may cause greater damage than usual to the tire wheel when sustaining impact from the road surface. Therefore, pay attention to the following:

- Be sure to use proper tire inflation pressure. If tires are under-inflated, they may be damaged more severely.
- Avoid potholes, uneven pavement, curbs and other road hazards. Failure to do so may lead to severe tire and wheel damage.

### ■ If tire inflation pressure of each tire becomes low while driving

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

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

### Tire inflation pressure

### ■ Tire inflation pressure

The recommended cold tire inflation pressure and tire size are displayed on the tire and loading information label.  $(\rightarrow P. 563)$ 



## Inspection and adjustment procedure



- 1 Tire valve
- 2 Tire pressure gauge

- STEP 1 Remove the tire valve cap.
- STEP 2 Press the tip of the tire pressure gauge onto the tire valve.
- STEP 3 Read the pressure using the gauge graduations.

- STEP 4 If the tire inflation pressure is not at the recommended level, adjust the pressure.
  - If you add too much air, press the center of the valve to deflate.
- After completing the tire inflation pressure measurement and adjustment, apply soapy water to the valve and check for leakage.
- STEP 6 Put the tire valve cap back on.

#### ■ Tire inflation pressure check interval

You should check tire inflation pressure every two weeks, or at least once a month. Do not forget to check the spare.

#### ■ Effects of incorrect tire inflation pressure

Driving with incorrect tire inflation pressure may result in the following:

- Reduced fuel efficiency
- Reduced driving comfort and tire life
- Reduced safety
- Damage to the drive train

If a tire needs frequent inflating, have it checked by your Lexus dealer.

### ■ Instructions for checking tire inflation pressure

When checking tire inflation pressure, observe the following:

- Check only when the tires are cold. If your vehicle has been parked for at least 3 hours or has not been driven for more than 1 mile or 1.5 km, you will get an accurate cold tire inflation pressure reading.
- Always use a tire pressure gauge.
   The appearance of the tire can be misleading. In addition, tire inflation pressure that is even just a few pounds off can affect ride quality and handling.
- Do not reduce tire inflation pressure after driving. It is normal for tire inflation pressure to be higher after driving.

Never exceed the vehicle capacity weight.
 Passengers and luggage weight should be placed so that the vehicle is balanced.

### **A** CAUTION

### ■ Proper inflation is critical to save tire performance

Keep your tires properly inflated. Otherwise, the following conditions may occur and result in an accident causing death or serious injury:

- Excessive wear
- Uneven wear
- Poor handling
- Possibility of blowouts resulting from overheated tires
- Poor sealing of the tire bead
- Wheel deformation and/or tire separation
- A greater possibility of tire damage from road hazards

### **↑** NOTICE

### ■ When inspecting and adjusting tire inflation pressure

Be sure to put the tire valve caps back on.

Without the valve caps, dirt or moisture could get into the valve and cause air leakage, which could result in an accident. If the caps are lost, replace them as soon as possible.

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

#### Wheels

If a wheel is bent, cracked or heavily corroded, it should be replaced. Otherwise, the tire may separate from the wheel or cause a loss of handling control.

#### ■ Wheel selection

When replacing wheels, care should be taken to ensure that they are equivalent to those removed in load capacity, diameter, rim width and inset\*.

Replacement wheels are available at your Lexus dealer.

\*: Conventionally referred to as "offset".

Lexus does not recommend using the following:

- Wheels of different sizes or types
- Used wheels
- Bent wheels that have been straightened

### Aluminum wheel precautions

- Use only Lexus wheel nuts and wrenches designed for use with your aluminum wheels.
- When rotating, repairing or changing your tires, check that the wheel nuts are still tight after driving 1000 miles (1600 km).
- Be careful not to damage the aluminum wheels when using tire chains.
- Use only Lexus genuine balance weights or equivalent and a plastic or rubber hammer when balancing your wheels.

### ■ When replacing wheels

The wheels of your vehicle are equipped with tire pressure warning valves and transmitters that allow the tire pressure warning system to provide advance warning in the event of a loss in tire inflation pressure. Whenever wheels are replaced, tire pressure warning valves and transmitters must be installed.  $(\rightarrow P. 444)$ 

#### **A** CAUTION

#### When replacing wheels

- Do not use wheels that are a different size from those recommended in the Owner's Manual, as this may result in a loss of handling control.
- Never use an inner tube in a leaking wheel which is designed for a tubeless tire. Doing so may result in an accident, causing death or serious injury.

## NOTICE

### Replacing tire pressure warning valves and transmitters

- Because tire repair or replacement may affect the tire pressure warning valves and transmitters, make sure to have tires serviced by your Lexus dealer or other qualified service shop. In addition, make sure to purchase your tire pressure warning valves and transmitters at your Lexus dealer.
- Ensure that only genuine Lexus wheels are used on your vehicle. Tire pressure warning valves and transmitters may not work properly with nonaenuine wheels.

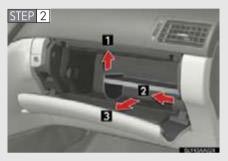
### 4-3. Do-it-yourself maintenance

## Air conditioning filter

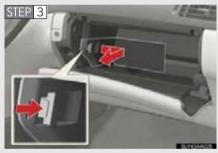
The air conditioning filter must be cleaned or changed regularly to maintain air conditioning efficiency.

### Removal method

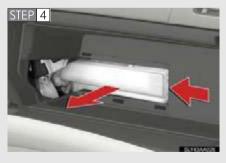
STEP 1 Turn the "POWER" switch off.



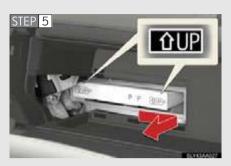
Open the glove box. Lift and remove the partition.



Remove the glove box cover.



Remove the filter cover.



Slide and pull out the filter. Replace the filter with a new one.

The "TUP" mark shown on the filter should be pointing up.

### ■ Cleaning method



If the filter is dirty, clean by blowing compressed air through the filter from the underside.

Hold the air gun 2 in. (5 cm) from the filter and blow for approximately 2 minutes at 72 psi (500 kPa, 5.0 kgf/cm<sup>2</sup> or bar).

If an air gun is not available, have the filter cleaned by your Lexus dealer.

### ■ Checking interval

Inspect, clean and replace the air conditioning filter according to the maintenance schedule. In dusty areas or areas with heavy traffic flow, early replacement may be required. (For scheduled maintenance information, please refer to the "Owner's Manual Supplement" or "Scheduled Maintenance".)

### ■ If air flow from the vents decreases dramatically

The filter may be clogged. Check the filter and replace if necessary.

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

### **⚠** NOTICE

### ■ To prevent damage to the system

- When using the air conditioning system, make sure that a filter is always installed.
- When cleaning the filter, do not clean with water.

# 4-3. Do-it-yourself maintenance **Electronic key battery**

### Replace the battery with a new one if it is depleted.

- You will need the following items:
  - Flathead screwdriver
  - Small flathead screwdriver
  - Lithium battery (CR1632)
- Replacing the battery



Take out the mechanical key.



#### Remove the cover.

To prevent damage to the key, cover the tip of the screwdriver with a rag.



### Remove the depleted battery.

Insert a new battery with the "+" terminal facing up.

#### ■ Use a CR1632 lithium battery

- Batteries can be purchased at your Lexus dealer, local electrical appliance shops or camera stores.
- Replace only with the same or equivalent type recommended by the manufacturer.
- Dispose of used batteries according to local laws.

#### ■ When the card key battery needs to be replaced (if equipped)

The battery for the card key is available only at Lexus dealers. Your Lexus dealer can replace the battery for you.

#### ■ If the electronic key battery is depleted

The following symptoms may occur:

- The smart access system with push-button start and wireless remote control will not function properly.
- The operational range will be reduced.

#### **A** CAUTION

### Removed battery and other parts

Keep away from children. These parts are small and if swallowed by a child, they can cause choking. Failure to do so could result in death or serious injury.



### ♠ NOTICE

### For normal operation after replacing the battery

Observe the following precautions to prevent accidents:

- Always work with dry hands. Moisture may cause the battery to rust.
- Do not touch or move any other components inside the remote control.
- Do not bend either of the battery terminals.

## Checking and replacing fuses

If any of the electrical components do not operate, a fuse may have blown. If this happens, check and replace the fuses as necessary.

STEP 1 Turn the "POWER" switch off.

STEP 2 Open the fuse box cover.

### **Engine compartment**



Push the tab in and lift the lid off.

### Driver's side instrument panel



Remove the lid.

After a system failure, see "Fuse layout and amperage ratings"  $(\rightarrow P. 464)$  for details about which fuse to check.

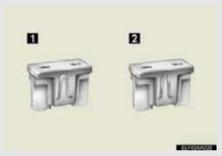
### STEP 4 Remove the fuse.



Only type A fuse can be removed using the pullout tool.

STEP 5 Check if the fuse is blown.

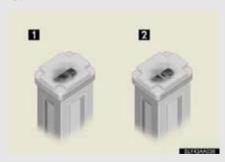
Type A



- Normal fuse
- 2 Blown fuse

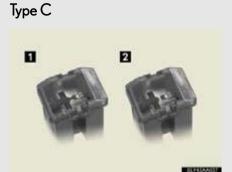
Replace the blown fuse with a new fuse of an appropriate amperage rating. The amperage rating can be found on the fuse box lid.

Type B



- Normal fuse
- 2 Blown fuse

Replace the blown fuse with a new fuse of an appropriate amperage rating. The amperage rating can be found on the fuse box lid.

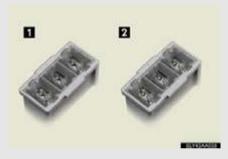


1 Normal fuse

2 Blown fuse

Replace the blown fuse with a new fuse of an appropriate amperage rating. The amperage rating can be found on the fuse box lid.

Type D

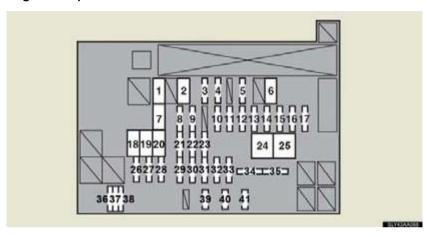


- 1 Normal fuse
- Blown fuse

Replace the blown fuse with a new fuse of an appropriate amperage rating. The amperage rating can be found on the fuse box lid.

### Fuse layout and amperage ratings

### Engine compartment



	Fuse	Ampere	Circuit
1	HTR	50 A	Air conditioning system
2	RDI	40 A	Electric cooling fans
3	OIL PMP	10 A	Hybrid system, transmission
4	S-HORN	10 A	No circuit
5	ABS MAIN NO.2	7.5 A	Electronically controlled brake system
6	H-LP CLN	30 A	Headlight cleaner
7	P CON MTR	30 A	P position control system, hybrid system, smart access system with pushbutton start
8	AMP NO.1	30 A	Audio system, back door opener
9	IGCT	30 A	PCU, IGCT NO.2, IGCT NO.3, hybrid system

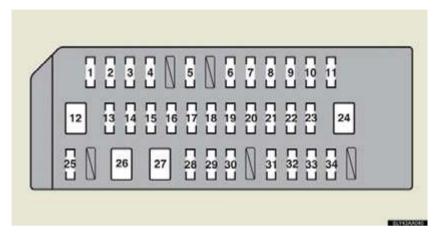
	Fuse	Ampere	Circuit
10	P CON MAIN	7.5 A	P position control system, hybrid system, smart access system with pushbutton start
11	AM2	7.5 A	Smart access system with push-button start, hybrid system, multiport fuel injection system/sequential multiport fuel injection system, P position control system, cruise control system, dynamic radar cruise control system
12	ECU-B2	7.5 A	Smart access system with push-button start, multiport fuel injection system/ sequential multiport fuel injection sys- tem, trunk opener switch
13	MAYDAY	10 A	Lexus link system
14	ECU-B3	10 A	Air conditioning system, rear window defogger, mirror heater
15	TURN & HAZ	10 A	Turn signal lights, emergency flashers
16	ETCS	10 A	Multiport fuel injection system/ sequential multiport fuel injection sys- tem
17	ABS MAIN NO.1	20 A	Electronically controlled brake system
18	P/I 2	40 A	P position control system, hybrid system, transmission, smart access system with push-button start, horn, headlights (low beam), back-up lights
19	ABS MTR1	30 A	Electronically controlled brake system
20	ABS MTR 2	30 A	Electronically controlled brake system
21	H-LP HI MAIN	20 A	Headlights (high beam)
22	AMP NO.2	30 A	Audio system, navigation system

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

	Fuse	Ampere	Circuit
23	DOOR NO.2	25 A	No circuit
24	P/I1	60 A	IG2, EFI MAIN, BATT FAN
25	EPS	60 A	Electric power steering system
26	PCU	10 A	Hybrid system
27	IGCT NO.2	10 A	Smart access system with push-button start, hybrid system, P position control system, multiport fuel injection system/sequential multiport fuel injection system
28	MIR HTR	10 A	Rear window defogger, mirror heater
29	RAD NO.1	15 A	Audio system, navigation system
30	DOME	10 A	Interior lights, antiglare inside rear view mirror, audio system, navigation system, garage door opener
31	ECU-B	7.5 A	Smart access system with push-button start, air conditioning system, gauges and meters, outside rear view mirror, clock, seats position memory, electric tilt & telescopic steering wheel
32	H-LP LH HI	10 A	Left-hand headlight (high beam)
33	H-LP RH HI	10 A	Right-hand headlight (high beam)
34	EFI NO. 2	10 A	Multiport fuel injection system/ sequential multiport fuel injection sys- tem
35	IGCT NO.3	10 A	Hybrid system

	Fuse	Ampere	Circuit
36	SPARE	30 A	Spare fuse
37	SPARE	10 A	Spare fuse
38	SPARE	7.5 A	Spare fuse
39	EFIMAIN	20 A	EFI NO.2, fuel system
40	BATT FAN	10 A	Battery cooling fan
41	IG2	20 A	Hybrid system, multiport fuel injection system/sequential multiport fuel injection system, MET, IGN

### Driver's side instrument panel



Fuse		Ampere	Circuit
1	TAIL	10 A	Parking lights, tail lights, license plate lights, side maker lights, front fog lights
2	PANEL	10 A	Navigation system, audio system, air conditioning system, emergency flashers switch, wiper de-icer switch, seat heater switch, P position switch, headlight cleaner switch, front passenger's seat belt reminder light, power window switch, VSC-OFF switch, HUD switch, AFS-OFF switch, POWER ECO MODE switch, EV mode switch, view select switch, trunk opener switch, fuel lid opener switch, glove box light, rear sunshade switch, remote touch, rear view mirror switch

Fuse		Ampere	Circuit
3	IGN	10 A	Electronically controlled brake system, multiport fuel injection system/ sequential multiport fuel injection system, Lexus link system, smart access system with push-button start, stop lights
4	MET	7.5 A	Meters
5	WIP	30 A	Windshield wipers
6	WASHER	15 A	Windshield washer
7	A/C	10 A	Air conditioning system
8	GAUGE	10 A	AFS, turn signal lights, emergency flasher lights
9	AFS	10 A	Adaptive front-lighting system
10	ECU-IG NO.2	10 A	Pre-collision system, LKA, dynamic radar cruise control, air conditioning system, outside rear view mirror, HUD, navigation system, tire inflation pressure warning system

# 4-3. Do-it-yourself maintenance

Fuse		Ampere	Circuit
11	ECU-IG NO.1	10 A	Rear view mirror, electronically controlled brake system, electric power steering system, moon roof, rain-sensing windshield wiper, emergency flashers switch, air conditioning system, electric head restraints, driver monitor, steering switch, seat heaters/ventilators, electric tilt & telescopic steering wheel, rear sunshade, AFS
12	S/ROOF	30 A	Electric moon roof
13	DOOR RL	25 A	Rear power window (left-side)
14	DOOR RR	25 A	Rear power window (right-side)
15	SHADE RR	10 A	Rear sunshade
16	D FR DOOR	25 A	Driver's side power window, outside rear view mirror
17	P FR DOOR	25 A	Passenger's side power window, outside rear view mirror
18	TI & TE	30 A	Electric tilt & telescopic steering wheel
19	STOP	10 A	Stop lights, electronically controlled brake system
20	A/C NO.2	10 A	No circuit

	Fuse	Ampere	Circuit
21	RR FOG	7.5 A	No circuit
22	FUEL OPN	7.5 A	Trunk opener switch, fuel filler door opener switch
23	OBD	7.5 A	On-board diagnosis
24	PWR SEAT FL	30 A	Driver's side power seat
25	FRFOG	15 A	Front fog lights
26	PWR SEAT FR	30 A	Passenger's side power seat
27	PSB	30 A	Pre-collision seat belts system
28	WELCAB	30 A	No circuit
29	DOOR NO.1	25 A	Power door lock system
30	SEAT HTR FL	10 A	Driver's side seat heater
31	SEAT HTR FR	10 A	Passenger's side seat heater
32	RAD NO.2	7.5 A	Navigation system, audio system, air conditioning system, HUD, remote touch
33	PWR OUTLET	15 A	Power outlet
34	ECU-ACC	10 A	Rear view mirror, air conditioning system, audio system, navigation system

#### ■ After a fuse is replaced

- If the lights do not turn on even after the fuse has been replaced, a bulb may need replacement.  $(\rightarrow P. 475)$
- If the replaced fuse blows again, have the vehicle inspected by your Lexus dealer.

#### ■ If there is an overload in a circuit

The fuses are designed to blow, protecting the wiring harness from damage.

# **A** CAUTION

#### ■ To prevent system breakdowns and vehicle fire

Observe the following precautions.

Failure to do so may cause damage, and possibly a fire or injury.

- Never use a fuse of a higher amperage rating than indicated, or use any other object in place of a fuse.
- Always use a genuine Lexus fuse or equivalent.
   Never replace a fuse with a wire, even as a temporary fix.
   This can cause extensive damage or even fire.
- Do not modify the fuses or fuse boxes.

#### ■ Fuse box near the power control unit

Never check or replace the fuses as there are high voltage parts and wiring near the fuse box.

Doing so may cause electric shock, resulting in death or serious injury.

# **↑** NOTICE

#### ■ Before replacing fuses

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

# 4-3. Do-it-yourself maintenance

# Headlight aim (LED headlights)

# ■ Vertical movement adjustment bolts



- Adjustment bolt A
- Adjustment bolt B

# ■ Before checking the headlight aim

Make sure the vehicle has a full tank of gasoline and the area around the headlight is not deformed.

STEP 2 Park the vehicle on level ground.

STEP 3 Sit in the driver's seat.

STEP 4 Bounce the vehicle several times.

# Adjusting the headlight aim



Using a Phillips-head screwdriver, turn bolt A in either direction.

Remember the turning direction and the number of turns.

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



Turn bolt B the same number of turns and in the same direction as step 1.

If the headlight cannot be adjusted using this procedure, take the vehicle to your Lexus dealer to adjust the headlight aim.

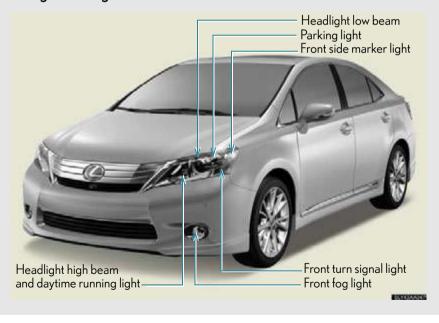
# 4-3. Do-it-yourself maintenance **Light bulbs**

You may replace the following bulbs by yourself. The difficulty level of replacement varies depending on the bulb. If necessary bulb replacement seems difficult to perform, contact your Lexus dealer.

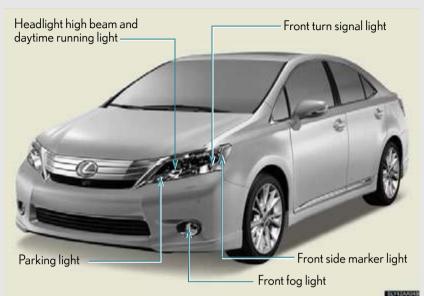
For more information about replacing other light bulbs, contact your Lexus dealer.

- Preparing for light bulb replacement

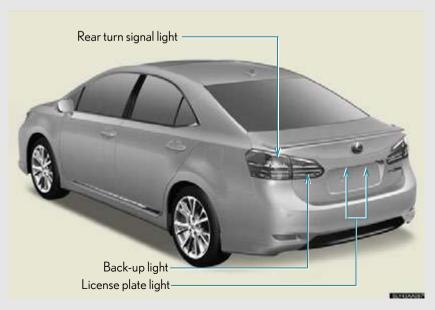
  Check the wattage of the light bulb to be replaced.  $(\rightarrow P. 564)$
- Remove the engine compartment covers →P. 429
- Front bulb locations
  Halogen headlights



# LED headlights



# Rear bulb locations

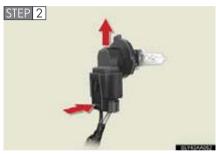


# Replacing light bulbs

Headlight high beams and daytime running lights (halogen headlights)



Turn the bulb base counterclockwise.



Unplug the connector while depressing the lock release.

■ Headlight high beams and daytime running lights (LED headlights)

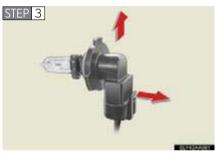


Turn the cover counterclockwise.

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



Turn the bulb base counterclockwise.



Unplug the connector while depressing the lock release.

# ■ Headlight low beams (halogen headlights)



Turn the bulb base counterclockwise.

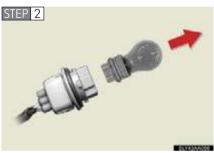


Unplug the connector while depressing the lock release.

# Front turn signal lights (halogen headlights)

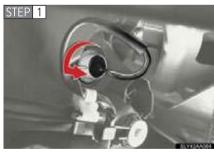


Turn the bulb base counterclockwise.

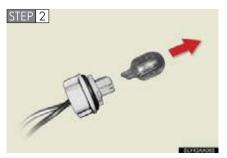


Remove the light bulb.

# Front turn signal lights (LED headlights)



Turn the bulb base counterclockwise.



Remove the light bulb.

# ■ Parking lights/front side marker lights (halogen headlights)



Turn the bulb base counterclockwise.

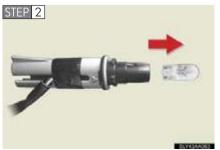


Remove the light bulb.

# Parking lights (LED headlights)



Turn the bulb base counterclockwise.



Remove the light bulb.

# ■ Front side marker lights (LED headlights)



Turn the bulb base counterclockwise.

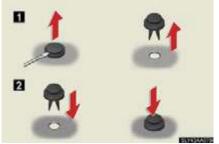


Remove the light bulb.

# Front fog lights



Remove the fender liner bolts, clip and remove the fender liner.



- Removing the clip
- 2 Installing the clip

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



Turn the bulb base counterclockwise.

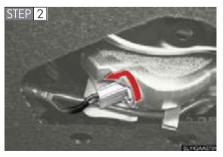


Unplug the connector while depressing the lock release.

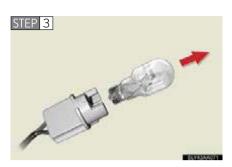
# ■ Back-up lights



Open the trunk lid and remove the cover.

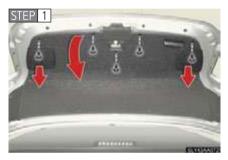


Turn the bulb base counterclockwise.



Remove the light bulb.

# License plate lights



Open the trunk lid and remove the cover, clips and partly remove the cover.

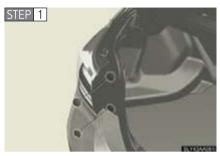


Turn the bulb base counterclockwise.



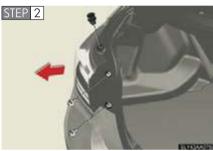
Remove the light bulb.

# Rear turn signal lights

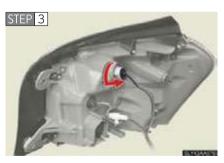


Open the trunk lid and remove the cover.

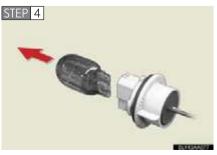
To prevent damage to the rear combination assembly, cover the tip of the screwdriver with a rag.



Remove the bolts, stopper rubber and rear combination assembly.



Turn the bulb base counterclockwise.



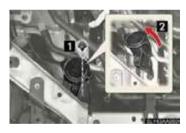
Remove the light bulb.

#### Lights other than the above

If any of the lights listed below has burnt out, have it replaced by your Lexus dealer.

- Headlight low beams (LED headlight type)
- Side turn signal lights
- Stop/tail lights
- Tail lights
- Rear side marker lights
- High mounted stoplight
- Outer foot lights

#### When replacing the front right headlight, front turn signal lights and parking light bulbs



Remove the securing clip and move the washer fluid filler opening to allow easy access to the light bulbs.

After replacing the bulbs, make sure to secure the washer fluid filler opening with the clip.

#### ■ LED light bulbs

The headlight low beams (LED headlights type), side turn signal lights, rear side marker lights, stop/tail lights, tail lights and high mounted stoplight consist of a number of LEDs. If any of the LEDs burn out, take your vehicle to your Lexus dealer to have the light replaced.

#### ■ Condensation build-up on the inside of the lens

Contact your Lexus dealer for more information in the following situations. Temporary condensation build-up on the inside of the headlight lens does not indicate a malfunction.

- Large drops of water have built up on the inside of the lens.
- Water has built up inside the headlight.

#### **A** CAUTION

#### ■ Replacing light bulbs

 Turn off the lights. Do not attempt to replace the bulb immediately after turning off the lights.

The bulbs become very hot and may cause burns.

- Do not touch the glass portion of the light bulb with bare hands. Hold the bulb by the plastic or metal portion.
  - If the bulb is scratched or dropped, it may blow out or crack.
- Fully install light bulbs and any parts used to secure them. Failure to do so may result in heat damage, fire, or water entering the headlight unit. This may damage the headlights or cause condensation to build up on the lens.

#### ■ To prevent damage or fire

Make sure bulbs are fully seated and locked.

When trouble arises

<b>5-1.</b>	Essential information	
	Emergency flashers	488
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#### 5-1. Essential information

# **Emergency flashers**

Use the emergency flashers if the vehicle malfunctions or is involved in an accident.



Press the switch to flash all the turn signal lights. To turn them off, press the switch once again.

# ♠ NOTICE

# ■ To prevent 12-volt battery discharge

Do not leave the emergency flashers on longer than necessary when the hybrid system is not operating.

# If your vehicle needs to be towed

If towing is necessary, we recommend having your vehicle towed by your Lexus dealer or a commercial towing service, using a lift-type truck or a flatbed truck.

Use a safety chain system for all towing, and abide by all state/provincial and local laws.

#### Before towing

The following may indicate a problem with your hybrid transmission. Contact your Lexus dealer before towing.

- The hybrid system is operating but the vehicle will not move.
- The vehicle makes an abnormal sound.

#### **Emergency towing**



If a tow truck is not available in an emergency, your vehicle may be temporarily towed using a cable or chain secured to the emergency towing eyelet(s). This should only be attempted on hard surfaced roads for short distances at under 18 mph (30 km/h).

A driver must be in the vehicle to steer and operate the brakes. The vehicle's wheels, drive train, axles, steering and brakes must be in good condition.

# • If emergency towing cannot be performed

The vehicle cannot be towed by another vehicle in the following situations because the front wheels may be locked by the parking lock. Transport the vehicle with both front wheels or all 4 wheels lifted using a flatbed or wheel-lift type truck.

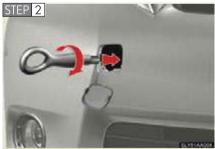
- There is a malfunction in the smart access system with push-button start.
- The P position control system is malfunctioning.  $(\rightarrow P.508)$
- The 12-volt battery is discharged.

#### Installing towing eyelets



Remove the eyelet cover using a flathead screwdriver.

To protect the bodywork, place a rag between the screwdriver and the vehicle body, as shown in the illustration



Insert the towing eyelet into the hole and tighten partially by hand.



Tighten down the towing eyelet securely using a wheel nut wrench.

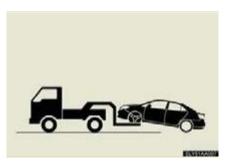
# Towing with a sling-type truck



Do not tow with a sling-type truck to prevent body damage.

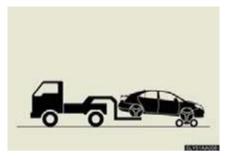
# Towing with a wheel-lift type truck

# From the front



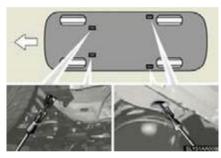
Release the parking brake.

#### From the rear



Use a towing dolly under the front wheels.

# Using a flatbed truck



If your Lexus is transported by a flatbed truck, it should be tied down at the locations shown in the illustration.



If you use chains or cables to tie down your vehicle, the angles shaded in black must be  $45^{\circ}$ .

Do not overly tighten the tie downs or the vehicle may be damaged.

#### ■ Before emergency towing

- Turn the "POWER" switch to ON mode. (→P. 148)

  Do not turn the "POWER" switch to ACCESSORY mode.
- STEP 2 Release the parking brake.
- STEP 3 Change the shift position to N.

  When the "POWER" switch is in ACCESSORY mode, the shift position cannot be changed to N.

#### ■ Emergency towing eyelet location

 $\rightarrow$ P. 527

#### **A** CAUTION

#### Caution while towing

- Use extreme caution when towing the vehicle.
   Avoid sudden starts or erratic driving maneuvers which would place excessive stress on the emergency towing eyelets and the cables or chains. Always be cautious of the surroundings and other vehicles while towing.
- Do not turn off the power switch.
   This may lead to accidents as the parking lock will be engaged.
- If the hybrid system is off, the power assist for the brakes and steering will not function, making steering and braking more difficult.

#### ■ Installing towing eyelets to the vehicle

Make sure that the towing eyelets are installed securely.

If not securely installed, the towing eyelets may come loose during towing. This may lead to accidents that cause serious injury or even death.

# **↑** NOTICE

■ To prevent damage the vehicle when towing using a wheel-lift type truck

When raising the vehicle, ensure adequate ground clearance for towing at the opposite end of the raised vehicle. Without adequate clearance, the vehicle could be damaged while being towed.

- To prevent body damage when towing using a sling-type truck
  - Do not tow with a sling-type truck, either from the front or rear.
- To prevent causing serious damage to the transmission when emergency towing

Never tow a vehicle from the rear with four wheels on the ground. This may cause serious damage to the transmission.

# 5-1. Essential information If you think something is wrong

If you notice any of the following symptoms, your vehicle probably needs adjustment or repair. Contact your Lexus dealer as soon as possible.

## ■ Visible symptoms

- Fluid leaks under the vehicle (Water dripping from the air conditioning after use is normal.)
- Flat-looking tires or uneven tire wear
- High engine coolant temperature warning light flashes or comes on

#### Audible symptoms

- Changes in exhaust sound
- Excessive tire squeal when cornering
- Strange noises related to the suspension system
- Pinging or other noises related to the hybrid system

# Operational symptoms

- Engine missing, stumbling or running rough
- Appreciable loss of power
- Vehicle pulls heavily to one side when braking
- Vehicle pulls heavily to one side when driving on a level road.
- Loss of brake effectiveness, spongy feeling, pedal almost touches the floor

# Event data recorder

Your vehicle has computers that monitor and control certain aspects of your vehicle. These computers assist in driving and maintaining optimal vehicle performance.

Besides storing data useful for troubleshooting, there is an event data recorder (EDR) that records data in a crash or near crash event.

#### In a crash or a near crash event

The SRS airbag sensor assembly contains the EDR. In a crash or near crash event, this device may record some or all of the following information:

- Engine speed
- Whether the brake pedal was applied or not
- Vehicle speed
- To what extent the accelerator pedal was depressed
- Hybrid transmission shift position
- Whether the driver and front passenger wore seat belts or not
- Driver's seat position
- SRS airbag deployment data
- SRS airbag system diagnostic data
- Front passenger's occupant classification

The information above is intended to be used for the purpose of improving vehicle safety performance. Unlike general data recorders, the EDR does not record sound data such as conversation between passengers.

#### Disclosure of the data

Lexus will not disclose the data recorded in an EDR to a third party except when:

- An agreement from the vehicle's owner (or the leasing company for a leased vehicle) is obtained
- Officially requested to by the police or other authorities
- Necessary, for use as a defense for Lexus in a lawsuit
- Ordered to by a court of law

However, if necessary Lexus will:

- Use the data for research on Lexus vehicle safety performance
- Disclose the data to a third party for research purposes without disclosing details of the vehicle owner, and only when it is deemed necessary
- Disclose summarized data cleared of vehicle identification information to a non-Lexus organization for research purposes

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

# If a warning light turns on or a warning buzzer sounds...

Calmly perform the following actions if any of the warning lights comes on or flashes. If a light comes on or flashes, but then goes off, this does not necessarily indicate a malfunction in the system. However, if this continues to occur, have the vehicle inspected by your Lexus dealer.

#### Stop the vehicle immediately. Continuing to drive the vehicle may be dangerous.

The following warning indicates a possible problem in the brake system. Immediately stop the vehicle in a safe place and contact your Lexus dealer.

Warning light	Warning light/Details		
	Brake system warning light and warning buzzer*		
BRAKE (U.S.A.) (Canada)	<ul> <li>Low brake fluid</li> <li>Malfunction in the brake system</li> </ul>		

#### \*: Brake system warning buzzer

When there is a possible problem that could affect braking performance, the warning light will come on and a warning buzzer will sound.

#### Parking brake engaged warning buzzer

 $\rightarrow$ P. 511

# Stop the vehicle immediately.

The following warning indicates the possibility of damage to the vehicle that may lead to an accident. Immediately stop the vehicle in a safe place and contact your Lexus dealer.

Warning light	Warning light/Details	
==	Charging system warning light Indicates a malfunction in the vehicle's charging system	

Warning light	Warning light/Details		
<b>≥</b>	High engine coolant temperature warning light (flashes or comes on) Indicates that the engine is overheating →P. 548 • Flashes: Engine is overheating. Drive carefully. • Comes on: Engine is overheated. Stop the vehicle.		

# Have the vehicle inspected by your Lexus dealer immediately.

Failing to investigate the cause of the following warnings may lead to the system operating abnormally and possibly cause an accident. Have the vehicle inspected by your Lexus dealer immediately.

Warning light	Warning light/Details
	Brake system warning light Indicates a malfunction in: • The regenerative brake system; or • The electronically controlled brake system
(U.S.A.)	Malfunction indicator lamp Indicates a malfunction in: • The hybrid system; • The electronic engine control system; • The electronic throttle control system; • The hybrid transmission control system
*	SRS warning light Indicates a malfunction in: • The SRS airbag system; • The front passenger occupant classification system; or • The seat belt pretensioner system
ABS (U.S.A.) (Canada)	"ABS" warning light Indicates a malfunction in: • The ABS; or • The brake assist system

Warning light	Warning light/Details
<b>!</b>	Electric power steering system warning light (warning buzzer) Indicates a malfunction in the EPS system
PCS (Flashes)	"PCS" warning light (if equipped) Indicates a malfunction in the pre-collision system →P. 236
AFS OFF (Flashes)	"AFS OFF" indicator light (if equipped) Indicates a malfunction in the AFS (Adaptive Front-lighting System)
<b>2</b>	Slip indicator light Indicates a malfunction in: • Enhanced VSC system; • TRAC system; or • Hill-start assist control system
LKA (Flashes)	"LKA" indicator light (if equipped) Indicates a malfunction in the lane keeping assist system →P. 221
(Flashes)	Cruise control indicator light Indicates a malfunction in the cruise control system →P. 204, 208
(Flashes)	Radar cruise control indicator light (if equipped) Indicates a malfunction in the Dynamic radar cruise control system →P. 208
(Flashes)	Automatic High Beam indicator light (if equipped) Indicates a malfunction in the automatic high beam system →P. 191

# Follow the correction procedures.

After taking the specified steps to correct the suspected problem, check that the warning light goes off.

Warning light	Warning light/Details	Correction procedure
	Open door warning light (warning buzzer)*1 Indicates that a door or the trunk is not fully closed.	Check that all the doors and the trunk are closed.
NEX.	Low fuel level warning light Indicates remaining fuel is approximately 2.2 gal. (8.3 L, 1.8 lmp. gal.) or less	Refuel the vehicle.
4	Driver's seat belt reminder light (warning buzzer)*2 Warns the driver to fasten his/her seat belt.	Fasten the seat belt.
(On the center panel)	Front passenger's seat belt reminder light (warning buzzer)*2 Warns the front passenger to fasten his/her seat belt.	Fasten the seat belt.
	Master warning light A buzzer sounds and the warning light comes on and flashes to indicate that the master warning system has detected a malfunction.	→P. 507

Warning light	Warning light/Details	Correction procedure
	Tire pressure warning light	
715	When the light comes on: Low tire inflation pressure	Adjust the tire inflation pressure.
(!)	When the light comes on after blinking for 1 minute: Malfunction in the tire pressure warning system	Have the system checked by your Lexus dealer.

<sup>\*1:</sup> Open door warning buzzer:

 $\rightarrow$ P. 511

\*2: Driver's and front passenger's seat belt buzzer:

The driver's and front passenger's seat belt buzzer sounds to alert the driver and front passenger that his or her seat belt is not fastened. The buzzer sounds intermittently for 10 seconds after the vehicle reaches a speed of 12 mph ( $20 \, \text{km/h}$ ). Then, if the seat belt is still unfastened, the buzzer will sound in a different tone for  $20 \, \text{more}$  seconds.

#### SRS warning light

This warning light system monitors the airbag sensor assembly, front airbag sensors, side and curtain shield airbag sensors, curtain shield and rear side airbag sensors, 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. 108)

# Front passenger detection sensor, passenger seat belt reminder and warning buzzer

- If luggage is placed on the front passenger seat, the front passenger detection sensor may cause the warning light to flash and the warning buzzer to sound even if a passenger is not sitting in the seat.
- If a cushion is placed on the seat, the sensor may not detect a passenger, and the warning light may not operate properly.

#### ■ Electric power steering warning light (warning buzzer)

The electric power steering warning light comes on and the warning buzzer sounds when the voltage is low or the voltage drops.

#### ■ If the malfunction indicator lamp comes on while driving

First check the following:

- Is the fuel tank empty?
  If it is, fill the fuel tank immediately.
- Is the fuel tank cap loose?
  If it is, tighten it securely.

The light will go off after several driving trips.

If the light does not go off even after several trips, contact your Lexus dealer as soon as possible.

#### ■ When the tire pressure warning light comes on

Check the tire inflation pressure and adjust to the appropriate level. Pushing the tire pressure warning reset switch will not turn off the tire pressure warning light.

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

The tire pressure warning light may come on due to natural causes such as natural air leaks and tire inflation pressure changes caused by temperature. In this case, adjusting the tire inflation pressure will turn off the warning light (after a few minutes).

# ■ When a tire is replaced with a spare tire

The compact spare tire is not equipped with a tire pressure warning valve and transmitter. If a tire goes flat, the tire pressure warning light will not turn off even though the flat tire has been replaced with the spare tire. Replace the spare tire with the repaired tire and adjust the tire inflation pressure. The tire pressure warning light will go off after a few minutes.

# ■ If the tire pressure warning system is not functioning

The tire pressure warning system will be disabled in the following conditions:

(When the condition becomes normal, the system will work properly.)

- If tires not equipped with tire pressure warning valves and transmitters are used.
- If the ID code on the tire pressure warning valves and transmitters is not registered in the tire pressure warning computer.
- If the tire inflation pressure is 73 psi (500 kPa, 5.1 kgf/cm<sup>2</sup> or bar) or higher.

The tire pressure warning system may be disabled in the following conditions:

(When the condition becomes normal, the system will work properly.)

- If electronic devices or facilities using similar radio wave frequencies are nearby.
- If a radio set at similar frequency is in use in the vehicle.
- If a window tint that affects the radio wave signals is installed.
- If there is a lot of snow or ice on the vehicle, particularly around the wheels or wheel housings.
- If non-genuine Lexus wheels are used (Even if you use Lexus wheels, the tire pressure warning system may not work properly with some types of tires.)
- If tire chains are used.
- If the tire pressure warning light comes on after flashing frequently for 1 minute

If the tire pressure warning light comes on after flashing frequently for 1 minute when the "POWER" switch is turned to ON mode, have it checked by your Lexus dealer.

■ Customization that can be configured at Lexus dealer

The vehicle speed linked seat belt reminder buzzer can be disabled. (Customizable features  $\rightarrow$ P. 580)

# **A** CAUTION

#### ■ When the electric power steering system warning light comes on

The steering wheel may become extremely heavy.

If the steering wheel becomes heavier than usual when operating, hold firmly and operate it using more force than usual.

#### ■ If the tire pressure warning light comes on

Be sure to observe the following precautions. Failure to do so could cause loss of vehicle control and result in death or serious injury.

- Stop your vehicle in a safe place as soon as possible. Adjust the tire inflation pressure immediately.
- If the tire pressure warning light comes on even after tire inflation pressure adjustment, it is probable that you have a flat tire. Check the tires. If a tire is flat, change it with the spare tire and have the flat tire repaired by the nearest Lexus dealer.

- Avoid abrupt maneuvering and braking. If the vehicle tires deteriorate, you could lose control of the steering wheel or the brakes.
- If a blowout or sudden air leakage should occur

The tire pressure warning system may not activate immediately.

#### Maintenance of the tires

Each tire, including the spare (if provided), should be checked monthly when cold and inflated to the inflation pressure recommended by the vehicle manufacturer on the vehicle placard or tire inflation pressure label (tire and load information label). (If your vehicle has tires of a different size than the size indicated on the vehicle placard or tire inflation pressure label [tire and load information label], you should determine the proper tire inflation pressure for those tires.)

As an added safety feature, your vehicle has been equipped with a tire pressure monitoring system (TPMS-tire pressure warning system) that illuminates a low tire pressure telltale (tire pressure warning light) when one or more of your tires is significantly under-inflated. Accordingly, when the low tire pressure telltale (tire pressure warning light) illuminates, you should stop and check your tires as soon as possible, and inflate them to the proper pressure. Driving on a significantly underinflated tire causes the tire to overheat and can lead to tire failure. Under-inflation also reduces fuel efficiency and tire tread life, and may affect the vehicle's handling and stopping ability.

Please note that the TPMS (tire pressure warning system) is not a substitute for proper tire maintenance, and it is the driver's responsibility to maintain correct tire pressure, even if under-inflation has not reached the level to trigger illumination of the TPMS low tire pressure telltale (tire pressure warning light).

Your vehicle has also been equipped with a TPMS (tire pressure warning system) malfunction indicator to indicate when the system is not operating properly. The TPMS (tire pressure warning system) malfunction indicator is combined with the low tire pressure telltale (tire pressure warning light). When the system detects a malfunction, the telltale will flash for approximately one minute and then remain continuously illuminated. This sequence will continue upon subsequent vehicle start-ups as long as the malfunction exists. When the malfunction indicator is illuminated, the system may not be able to detect or signal low tire pressure as intended.

TPMS (tire pressure warning system) malfunctions may occur for a variety of reasons, including the installation of replacement or alternate tires or wheels on the vehicle that prevent the TPMS (tire pressure warning system) from functioning properly. Always check the TPMS (tire pressure warning system) malfunction telltale after replacing one or more tires or wheels on your vehicle to ensure that the replacement or alternate tires and wheels allow the TPMS (tire pressure warning system) to continue to function properly.



#### ∧ NOTICE

#### ■ Precaution when installing a different tire

When a tire of a different specification or maker is installed, the tire pressure warning system may not operate properly.

5

# If a warning message is displayed

If a warning is shown on the multi-information display, stay calm and perform the following actions:



Master warning light

The master warning light also comes on or flashes in order to indicate that a message is currently being displayed on the multi-information display.

Multi-information display

If any of the warning light comes on again after the following actions have been performed, contact your Lexus dealer.

# Stop the vehicle immediately.

A buzzer sounds and a warning message is shown on the multi-information display. The following warning indicates the possibility of damage to the vehicle that may lead to an accident. Immediately stop the vehicle in a safe place and contact your Lexus dealer.

Warning message	Details
PRESSURE LOW	Indicates abnormal engine oil pressure A buzzer also sounds. The warning message is displayed if the engine oil pressure is too low.
CHECK HYBRID SYSTEM	Indicates a malfunction in the hybrid system A buzzer also sounds.

# Have the vehicle inspected by your Lexus dealer immediately.

A buzzer sounds and a warning message is shown on the multi-information display. Failure to investigate the cause of the following warnings may lead to the system operating abnormally and possibly cause an accident. Have the vehicle inspected by your Lexus dealer immediately.

Warning message	Details
LOCK MALFUNCTION WHEN PARKING, PARK IN FLAT PLACE AND APPLY PARKING BRAKE SECURELY	Indicates a malfunction in the P position control A buzzer also sounds. In this situation, there is a possibility that the parking lock mechanism will not work. When parking, park the vehicle on a flat surface and apply the parking brake securely. Also, it may not be possible to turn the "POWER" switch off. If this happens, applying the parking brake will enable the switch to be turned off.
CHECK HEADLIGHT SYSTEM  (Flashes) (If equipped)	Indicates a malfunction in the LED headlight system A buzzer also sounds.
CHECK PCS SYSTEM  PCS (Flashes)  (If equipped)	Indicates a malfunction in the pre-collision system A buzzer also sounds.

Warning message	Details
CHECK SONAR (If equipped)	Indicates a malfunction in the intuitive parking assist A buzzer also sounds. The malfunctioning assist-sensor is flashing.
CHECK CRUISE CONTROL SYSTEM  (Flashes)	Indicates a malfunction in the cruise control system A buzzer also sounds. Press the "ON-OFF" button once to deactivate the system, and then press the button again to reactivate the system.
CHECK CRUISE CONTROL SYSTEM  (Flashes)  (If equipped)	Indicates a malfunction in the radar cruise control system  A buzzer also sounds.  Press the "ON-OFF" button once to deactivate the system, and then press the button again to reactivate the system.
CHECK POWER STEERING SYSTEM	Indicates a malfunction in the EPS system A buzzer also sounds. If the steering wheel becomes heavier than usual when operating, hold firmly and operate using more force than usual.

# Have the vehicle inspected by your Lexus dealer immediately.

Failure to investigate the cause of the following warning may lead to the system operating abnormally and possibly cause an accident. Have the vehicle inspected by your Lexus dealer immediately.

Warning message	Details
CHECK TIRE PRESSURE SYSTEM  (Flashes and then remains on)	Indicates a malfunction in the tire pressure warning system  The tire pressure warning light comes on after flashing for 1 minute.

# Follow the correction procedures.

A buzzer sounds and a warning message is shown on the multi-information display. After taking the specified steps to correct the suspected problem, check that the warning message goes off.

Warning message	Details	Correction procedure
	Indicates that one or more of the doors is not fully closed with the "POWER" switch ON mode  The system also indicates which doors are not fully closed.  If the vehicle reaches a speed of 3 mph (5 km/h), a buzzer sounds to indicate that the door(s) are not yet fully closed.	Make sure that all the doors are closed.
HOOD PEN	Indicates that the hood is not fully closed with the "POWER" switch ON mode	Close the hood.
TRUNK OPEN	Indicates that the trunk is not fully closed with the "POWER" switch ON mode	Close the trunk.

Warning message	Details	Correction procedure
MOONROOF OPENED  (Flashes)  (If equipped)	Indicates that the moon roof is not fully closed A buzzer also sounds. (With the "POWER" switch off, and the driver's door open)	Close the moon roof.
RELEASE PARKING BRAKE	Indicates that the parking brake is still engaged  If the vehicle reaches a speed of 3 mph  (5 km/h),  flashes and a buzzer sounds to indicate that the parking brake is still engaged.	Release the parking brake.
LOW WASHER FLUID	Indicates that the washer fluid level is low	Add washer fluid.
	Indicates that the engine oil is scheduled to be changed	
OIL MAINTENANCE REQUIRED SOON (U.S.A. only)	Comes on approximately 4500 miles (7200 km) after the engine oil is changed. (The indicator will not work properly unless the oil maintenance data has been reset.)	Check the engine oil, and change if necessary.

Warning message	Details	Correction procedure
OIL MAINTENANCE REQUIRED (U.S.A. only)	Indicates that the engine oil should be changed Comes on approxi- mately 5000 miles (8000 km) after the engine oil is changed (and the oil maintenance data has been reset)	Check and change the engine oil.
LOW TIRE PRSSURE CHECK ALL TIRES 26 26 26 26	Indicates that the tire inflation pressure is low	Check the tire inflation pressure, and adjust to the appropriate level.
PCS TEMPORARILY NOT AVAILABLE PCS (If equipped)	Indicates that the pre- collision system is not currently functional because the grille or the sensor is dirty. This message also appears when the pre- collision system is not functional due to over- heating.	Check the grille and the sensor and clean them if they are dirty.  In case of overheating, the system will become functional once the system cools down.
CLEAN SONAR (If equipped)	Indicates that intuitive parking assist sensor is dirty or covered with ice A buzzer also sounds. The site of the malfunction and the vehicle image are flashing.	Clean the sensor.

Warning message	Details	Correction procedure
CLEAN RADAR SENSOR  (Flashes)  (If equipped)	Indicates that the radar cruise control sensor is dirty or covered with ice A buzzer also sounds.	Clean the sensor.
CRUISE CONTROL NOT AVAILABLE  (Flashes)  (If equipped)	Indicates that the radar cruise control system is unable to judge vehicle-to-vehicle distance A buzzer also sounds.	<ul> <li>Switch driving mode to normal.</li> <li>Stop the wiper or change the mode to auto, low or intermittent.</li> </ul>
BRAKE! PCS (Flashes) (If equipped)	Alerts the driver that there is a high possibility of collision or the pre-collision braking has activated  A buzzer also sounds.  At the same time,  BRAKE! will appear on the head-up display too (the image flashes).	Slow the vehicle by applying the brakes.

Warning message	Details	Correction procedure
(Flashes) (If equipped)	Indicates that your vehicle is nearing the vehicle ahead (in radar cruise mode)  A buzzer also sounds. At the same time, will appear on the head-up display (the image flashes).	Slow the vehicle by applying the brakes.
CHECK LKA SYSTEM  (Flashes)  (If equipped)	Indicates a malfunction in the LKA system A buzzer also sounds.	Restart the hybrid system and then reactivate the lane keeping assist system.
LKA NOT AVAILABLE	Indicates that the LKA is suspended  A buzzer also sounds.  The camera sensor temperature is higher than the operation temperature range.  The power steering system operation is restricted.	Reactivate the lane keeping assist system.

Warning message	Details	Correction procedure
60 MPH	Alerts the driver that the vehicle is out of the lanes (while the LKA system is operating).  A buzzer also sounds. The lane markings and/ or the steering wheel marking flash. At the same time, will appear on the head-up display (the image flashes).	Check the road conditions and drive the vehicle at a safe speed.
HYBRID SYSTEM OVERHEAT	Indicates that the hybrid system has overheated A buzzer also sounds.	Stop and check. (→P. 548)
LOW TRACTION BATTERY CHARGE WHEN NOT IN POSITION  (Flashes)	Indicates that the traction battery is low The warning buzzer sounds intermittently.	When stopping the vehicle for a long period of time, change the shift position to P. The battery cannot be charged with the shift position in N.
TRACTION BATTERY PRESERVATION MODE RESTART AFTER SHIFTING THE POSITION  (Flashes)	Indicates that the traction battery power has dropped because a long period of time has elapsed after changing the shift position to N The warning buzzer sounds continuously.	Restart the hybrid system when starting the vehicle.

Warning message	Details	Correction procedure
SHIFT TO POSITION WHEN PARKED  (Flashes)	Indicates that the driver's door was opened with the shift position in any position other than P with the hybrid system operating  The warning buzzer sounds continuously.	Change the shift position to P.
EV MODE CURRENTLY NOT AVAILABLE	Indicates that the EV drive mode is not available* A buzzer also sounds. The reason the EV drive mode is not available (the vehicle is idling, battery charge is low, speed is higher than the EV drive mode operating speed range, accelerator pedal is depressed too much) may be displayed.	Use the EV drive mode when it becomes available.

Warning message	Details	Correction procedure
EV MODE DEACTIVATED  (Flashes 3 times)	Indicates that the EV drive mode has been automatically cancelled* A buzzer also sounds. The reason the EV drive mode is not available (the battery charge is low, speed is higher than the EV drive mode speed range, accelera- tor pedal is depressed too much) may be dis- played.	Drive the vehicle for a while.

<sup>\*:</sup> For the EV drive mode operating conditions ( $\rightarrow$ P. 152).

# Have the malfunction repaired immediately

After taking the specified steps to correct the suspected problem, check that the warning message and light go off.

Interior buzzer	Exterior buzzer	Warning message	Details	Correction procedure
Once	_	KEY NOT DETECTED  (Flashes)	The electronic key is not detected when an attempt is made to start the hybrid system.	Start the hybrid system with the electronic key present.
Once 3 times	2	KEY NOT	The electronic key was carried outside the vehicle and a door other than the driver's door was opened and closed while the "POWER" switch was in a mode other than off.	Bring the electronic key back into the vehicle.
	(Flashes)	The electronic key was carried outside the vehicle and the driver's door was opened and closed while the shift position P was selected without turning off the "POWER" switch.	Turn the "POWER" switch off or bring the electronic key back into the vehi- cle.	

Interior buzzer	Exterior buzzer	Warning message	Details	Correction procedure
Once	Con- tinuous	KEY NOT DETECTED  TURN POWER OFF  (Displayed alternately)  (Flashes)	An attempt was made to exit the vehicle with the electronic key and lock the doors without first turning the "POWER" switch off.	Turn the "POWER" switch off and lock the doors again.
Once	_	KEY NOT DETECTED  (Flashes)	An attempt was made to start the hybrid system without the electronic key being present, or the electronic key was not functioning normally.  An attempt was made to drive when the regular key was not inside the vehicle.	Confirm that the electronic key is inside the vehicle.
Con- tinuous	_	SHIFT TO POSITION  (Flashes)	The driver's door was opened while any shift position other than P was selected without turning off the "POWER" switch.	Change the shift position to P.

Interior buzzer	Exterior buzzer	Warning message	Details	Correction procedure
		SHIFT TO POSITION	side the vehicle and the driver's door was opened and closed while any shift position other than P was selected without turning off the	• Change the shift
Continuous	Continuous	KEY NOT DETECTED  (Displayed alternately)  (Flashes)		position to P.  • Bring the electronic key back into the vehicle.
Once	Con- tinuous	KEY DETECTED IN VEHICLE  (Flashes)	An attempt was made to lock the doors using the smart access system with pushbutton start while the electronic key was still inside the vehicle.	Retrieve the electronic key from the vehicle and lock the doors again.

# 5-2. Steps to take in an emergency

Interior buzzer	Exterior buzzer	Warning message	Details	Correction procedure
_	Con- tinuous	KEY DETECTED IN VEHICLE  (Flashes)	An attempt was made to lock either front door by opening a door and putting the inside lock button into the lock position, then closing the door by pulling on the outside door handle with the electronic key still inside the vehicle.	Retrieve the electronic key from the vehicle and lock the doors again.

Interior buzzer	Exterior buzzer	Warning message	Details	Correction procedure
Once		DEPRESS BRAKE PEDAL, TOUCH POWER SWITCH WITH KEY  (Flashes)	• When the doors were unlocked with the mechanical key and then the "POWER" switch was pressed, the electronic key could not be detected in the vehicle. • The electronic key could not be detected in the vehicle even after the "POWER" switch was pressed two consecutive times.	Touch the electronic key to the "POWER" switch while depressing the brake pedal.
Once	_	SHIFT TO POSITION TO START  (Flashes)	An attempt was made to start the hybrid system with the shift posi- tion in N.	Change the shift position to P and start the hybrid system.

# 5-2. Steps to take in an emergency

Interior buzzer	Exterior buzzer	Warning message	Details	Correction procedure
_	_	AUTO POWER OFF TO CONSERVE BATTERY	Power was turned off due to the automatic power off function.	Next time when starting the hybrid system, increase the engine speed slightly and maintain that level for approximately 5 minutes to recharge the 12-volt battery.
Once	_	KEY BATTERY LOW	The electronic key has a low battery.	Replace the electronic key battery. (→P. 459)

Interior buzzer	Exterior buzzer	Warning message	Details	Correction procedure
Once	Once — BRAKE PEDAL AND PUSH POWER SWITCH TO START  (Flashes)	The driver's door was opened and closed with the "POWER" switch turned off and then the "POWER" switch was put in ACCESSORY mode twice without the hybrid system being started.	Press the "POWER" switch while depressing the brake pedal.	
		During a hybrid system starting procedure in the event that the electronic key was not functioning properly (\$\ightarrow\$P. 540), the "POWER" switch was touched with the electronic key.	Press the "POWER" switch within 10 seconds of the buzzer sounding.	

# ■ Warning light display in radar cruise mode

In the following cases, the warning light may not be displayed even if vehicle-tovehicle distance decreases:

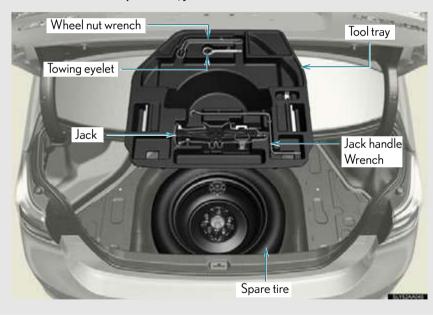
- When your vehicle and the vehicle ahead are traveling at the same speed or the vehicle ahead is traveling more quickly than your vehicle
- When the vehicle ahead is traveling at a very low speed
- Immediately after cruise control speed is set
- At the instant the accelerator pedal is depressed
- After changing the engine oil (U.S.A. only)

Make sure to reset the oil maintenance data.  $(\rightarrow P. 432)$ 

# 5-2. Steps to take in an emergency If you have a flat tire

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

- Before jacking up the vehicle
  - Stop the vehicle on a hard, flat surface.
  - Set the parking brake.
  - Change the shift position to P.
  - Stop the hybrid system.
  - Turn on the emergency flashers.
- Location of the spare tire, jack and tools



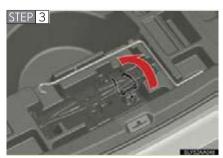
# Taking out the jack and spare tire



Lift up the hook of the panel on the trunk floor.



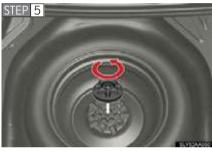
Secure the panel using the hook provided.



Remove the jack after removing the hook.



Take out the tool tray.



Loosen the center fastener that secures the spare tire.

# Replacing a flat tire

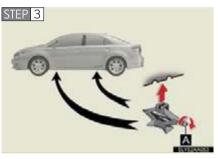


# Chock the tires.

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



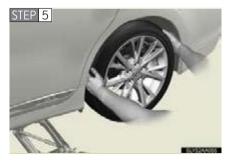
Slightly loosen the wheel nuts (one turn).



Turn the tire jack portion "A" by hand until the notch of the jack is in contact with the jack point.



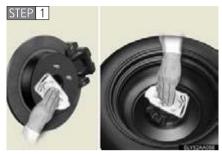
Raise the vehicle until the tire is slightly raised off the ground.



Remove all the wheel nuts and the tire.

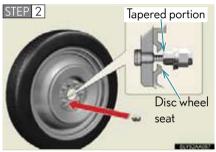
When resting the tire on the ground, place the tire so that the wheel design faces up to avoid scratching the wheel surface.

# Installing the spare tire



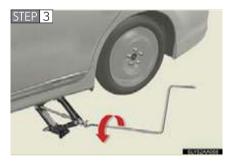
Remove any dirt or foreign matter from the wheel contact surface.

If foreign matter is on the wheel contact surface, the wheel nuts may loosen while the vehicle is in motion, causing the tire to come off.

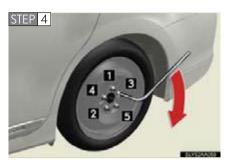


Install the spare tire and loosely tighten each wheel nut by hand by approximately the same amount.

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



Lower the vehicle.



Firmly tighten each wheel nut two or three times in the order shown in the illustration.

Tightening torque: 76 ft•lbf (103 N•m, 10.5 kgf•m)

STEP 5 Stow the flat tire, tire jack and all tools.

#### ■ The compact spare tire

• The compact spare tire is identified by the label "TEMPORARY USE ONLY" on the tire sidewall.

Use the compact spare tire temporarily, and only in an emergency.

• Make sure to check the tire inflation pressure of the compact spare tire.  $(\rightarrow P. 563)$ 

#### ■ After completing the tire change

The tire pressure warning system must be reset.  $(\rightarrow P. 445)$ 

# ■ When using the compact spare tire

As the compact spare tire is not equipped with a tire pressure warning valve and transmitter, low inflation pressure of the spare tire will not be indicated by the tire pressure warning system. Also, if you replace the compact spare tire after the tire pressure warning light comes on, the light remains on.

# ■ If you have a flat front tire on a road covered with snow or ice

Install the compact spare tire on one of the rear wheels of the vehicle. Perform the following steps and fit tire chains to the front tires:

STEP 1 Replace a rear tire with the compact spare tire.

Replace the flat front tire with the tire removed from the rear of the vehicle.

STEP 3 Fit tire chains to the front tires.

#### ■ When using the compact spare tire

- Remember that the compact spare tire provided is specifically designed for use with your vehicle. Do not use your compact spare tire on another vehicle.
- Do not use more than one compact spare tire simultaneously.
- Replace the compact spare tire with a standard tire as soon as possible.
- Avoid sudden acceleration, deceleration and braking, as well as sharp cornering.

### ■ When storing the compact spare tire

Be careful not to catch fingers or other body parts between the compact spare tire and the body of the vehicle.

### ■ When the compact spare tire is attached

The vehicle speed may not be correctly detected, and the following systems may not operate correctly:

- ABS & Brake assist
- Enhanced VSC
- TRAC
- Cruise control system
- Dynamic radar cruise control system (if equipped)
- Lane keeping assist (if equipped)
- Adaptive Front-lighting System (if equipped)
- Intuitive parking assist (if equipped)
- Pre-collision system (if equipped)
- Navigation system (if equipped)

# Speed limit when using the compact spare tire

Do not drive at speeds in excess of 50 mph (80 km/h) when a compact spare tire is installed on the vehicle.

The compact spare tire is not designed for driving at high speeds. Failure to observe this precaution may lead to an accident causing death or serious injury.

#### ■ Using the tire jack

Improper use of the tire jack may cause the vehicle to suddenly fall off the jack. leading to death or serious injury.

- Do not use the tire jack for any purpose other than replacing tires or installing and removing tire chains.
- Only use the tire jack that comes with this vehicle for replacing a flat tire. Do not use it on other vehicles, and do not use other tire jacks for replacing tires on this vehicle.
- Always check that the tire jack is securely set to the jack point.
- Do not put any part of your body under the vehicle while it is supported by the iack.
- Do not start or run the hybrid system while your vehicle is supported by the jack.
- Do not raise the vehicle while someone is inside.
- When raising the vehicle, do not put an object on or under the jack.
- Do not raise the vehicle to a height greater than that required to replace the tire.
- Use a jack stand if it is necessary to get under the vehicle.

Take particular care when lowering the vehicle to ensure that no one working on or near the vehicle may be injured.

# Replacing a flat tire

Observe the following precautions to reduce the risk of death or serious injury:

- Do not touch the disc wheels or the area around the brakes immediately after the vehicle has been driven
  - After the vehicle has been driven the disc wheels and the area around the brakes will be extremely hot. Touching these areas with hands, feet or other body parts while changing a tire, etc. may result in burns.
- Never use oil or grease on the wheel bolts or wheel nuts. Oil and grease may cause the wheel nuts to be excessively tightened, leading to bolt or disc wheel damage. In addition, the oil or grease can cause the wheel nuts to loosen and the wheel may fall off, causing a serious accident. Remove any oil or arease from the wheel bolts or wheel nuts.

- Have the wheel nuts tightened with a torque wrench to 76 ft•lbf (103 N•m, 10.5 kgf·m) as soon as possible after changing wheels.
  - Failure to follow these precautions could cause the wheel nuts to loosen and the tire to fall off, resulting in death or serious injury.
- When installing a tire, only use wheel nuts that have been specifically designed for that wheel.
- If there are any cracks or deformations in the bolt screws, nut threads or bolt holes of the wheel, have the vehicle inspected by your Lexus dealer.

Failure to follow these precautions could cause the wheel nuts to loosen and the tire to fall off, resulting in death or serious injury.



#### ∧ NOTICE

#### Do not drive the vehicle with a flat tire

Do not continue driving with a flat tire.

Driving even a short distance with a flat tire can damage the tire and the wheel beyond repair.

■ Be careful when driving over bumps with the compact spare tire installed on the vehicle.

The vehicle becomes lower when driving with the compact spare tire compared to when driving with standard tires. Be careful when driving over uneven road surfaces.

# Driving with tire chains and the compact spare tire

Do not fit tire chains to the compact spare tire.

Tire chains may damage the vehicle body and adversely affect driving performance.

# ■ When replacing the tires

When removing or fitting the wheels, tires or the tire pressure warning valve and transmitter, contact your Lexus dealer as the tire pressure warning valve and transmitter may be damaged if not handled correctly.

# **⚠** NOTICE

#### ■ To avoid damage to the tire pressure warning valves and transmitters

When a tire is repaired with liquid sealants, the tire pressure warning valve and transmitter may not operate properly. If a liquid sealant is used, contact your Lexus dealer or other qualified service shop as soon as possible. Make sure to replace the tire pressure warning valve and transmitter when replacing the tire.  $(\rightarrow P. 444)$ 

Reasons for the hybrid system not starting vary depending on the situation. Check the following and perform the appropriate procedure:

■ The hybrid system will not start even though the correct starting procedure is being followed. (→P. 147)

One of the following may be the cause of the problem:

- The electronic key may not be functioning properly.\*  $(\rightarrow P. 540)$
- There may not be sufficient fuel in the vehicle's tank.
   Refuel the vehicle.
- lacktriangle There may be a malfunction in the immobilizer system.\* ( $\rightarrow$ P. 98)
- There may be a malfunction in the P position control system.\* (→P.150, 508)
- The hybrid system may be malfunctioning due to an electrical problem such as an open circuit or a blown fuse. However, depending on the type of malfunction, an interim measure is available to start the hybrid system. (→P. 461)
- \*: It may not be possible to shift out of the P position.
- The interior lights and headlights are dim, or the horn does not sound or sounds at a low volume.

One of the following may be the cause of the problem:

- $\bullet$  The 12-volt battery may be discharged. ( $\rightarrow$ P. 543)
- The 12-volt battery terminal connections may be loose or corroded.

■ The interior lights and headlights do not turn on, or the horn does not sound.

One of the following may be the cause of the problem:

- One or both of the 12-volt battery terminals may be disconnected.
- $\bullet$  The 12-volt battery may be discharged. ( $\rightarrow$ P. 543)

Contact your Lexus dealer if the problem cannot be repaired, or if repair procedures are unknown.

# **Emergency start function**

When the hybrid system does not start, the following steps can be used as an interim measure to start the hybrid system if the "POWER" switch is functioning normally:

- STEP 1 Set the parking brake.
- STEP 2 Turn the "POWER" switch to ACCESSORY mode.
- Press and hold the "POWER" switch for about 15 seconds while depressing the brake pedal firmly.

Even if the hybrid system can be started using the above steps, the system may be malfunctioning. Have the vehicle inspected by your Lexus dealer.

# 5-2. Steps to take in an emergency If you lose your keys

New genuine Lexus keys can be made by your Lexus dealer using the other keys and the key number stamped on your key number plate.

# If the electronic key does not operate properly

If communication between the electronic key and vehicle is interrupted ( $\rightarrow$ P. 50) or the electronic key cannot be used because the battery is depleted, the smart access system with push-button start and wireless remote control cannot be used. In such cases, the doors and trunk can be opened and the hybrid system can be started by following the procedure below.

# Locking and unlocking the doors, unlocking the trunk and key linked functions

#### Doors



Use the mechanical key ( $\rightarrow$ P. 40) in order to perform the following operations (driver's door only):

- 1 Locks all the doors
- Closes the windows and moon roof (turn and hold)<sup>⋆</sup>
- Unlocks the door

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

- Opens the windows and moon roof (turn and hold)\*
  - \*: This setting must be customized at your Lexus dealer.

#### Trunk



Turn the mechanical key clockwise to open.

# Changing "POWER" switch modes and starting the hybrid system

STEP 1 Depress the brake pedal.



Touch the Lexus emblem side of the electronic key to the "POWER" switch.

If any of the doors is opened or closed while the key is being touched to the switch, an alarm will sound to indicate that the start function cannot detect the electronic key.



STEP 3 To change "POWER" switch modes: Within 10 seconds of the buzzer sounding, release the brake pedal and press the "POWER" switch. Modes can be changed each time the switch is pressed. (→P. 148)

To start the hybrid system: Press the "POWER" switch within 10 seconds of the buzzer sounding, keeping the brake pedal depressed.

In the event that the hybrid system still cannot be operated, contact your Lexus dealer.

#### ■ Stopping the hybrid system

In the same method as the normal hybrid system stopping procedure, completely stop the vehicle and then press the "POWER" switch.

#### ■ Replacing the key battery

As the above procedure is a temporary measure, it is recommended that the electronic key battery be replaced immediately when the battery is depleted.  $(\rightarrow P.459)$ 

#### ■ When the electronic key does not work properly

Make sure that the smart access system with push-button start has not been deactivated in the customization setting. If it is off, turn the function on. (Customizable features  $\rightarrow$ P. 580)

5

# If the vehicle 12-volt battery is discharged

The following procedures may be used to start the hybrid system if the vehicle's 12-volt battery is discharged.

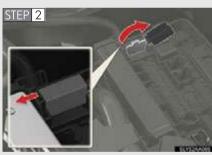
You can also call your Lexus dealer or a qualified repair shop.

If you have a set of jumper (or booster) cables and a second vehicle with a 12-volt battery, you can jump start your vehicle by following the steps below.



Open the hood and fuse box cover.

Push the tab in and lift the lid off.



Open the exclusive jump starting terminal cover.

Slightly pull the tab to open the cover.



Connect the jumper cables according to the following procedure:

- Connect a positive jumper cable clamp to the exclusive jump starting terminal on your vehicle
- Connect the clamp on the other end of the positive cable to the positive (+) battery terminal on the second vehicle
- Connect a negative cable clamp to the negative (-) battery terminal on the second vehicle
- Connect the clamp at the other end of the negative cable to a solid, stationary, unpainted metallic point away from the exclusive jump starting terminal and any moving parts, as shown in the illustration.
- Start the engine of the second vehicle. Increase the engine speed slightly and maintain that level for approximately 5 minutes to recharge the 12-volt battery of your vehicle.
- Maintain the engine speed of the second vehicle and start the hybrid system of your vehicle by turning the "POWER" switch to ON mode.

- Make sure the "READY" indicator comes on. If the indicator does not come on, contact your Lexus dealer.
- Once the hybrid system has started, remove the jumper cables in the exact reverse order from which they were connected.
- Close the exclusive jump starting terminal cover and reinstall the fuse box cover.

Once the hybrid system starts, have the vehicle inspected at your Lexus dealer as soon as possible.

#### ■ Starting the hybrid system when the 12-volt battery is discharged

The hybrid system cannot be started by push-starting.

- To prevent 12-volt battery discharge
  - Turn off the headlights and the audio system while the hybrid system is off.
  - Turn off any unnecessary electrical components when the vehicle is running at a low speed for an extended period, such as in heavy traffic.
- When the 12-volt battery is discharged
  - The hybrid system may not start. ( $\rightarrow$ P. 440)
  - If the 12-volt battery is depleted with the shift position in P, it will not be possible to shift out of P. In this case, the vehicle cannot be towed without lifting both front wheels because the front wheels are locked by the parking lock.  $(\rightarrow P. 489)$
  - When the 12-volt battery is reconnected, start the hybrid system, depress the brake pedal, and confirm that it is possible to shift into each shift position.

#### **A** CAUTION

#### Avoiding battery fires or explosions

The flammable gas that may be generated by the assisting vehicle battery may catch fire and explode. Make sure to observe the following to prevent fire or sparks.

- Make sure each jumper cable is connected to the correct terminal and that it is not unintentionally in contact with any part other than the intended terminal.
- Do not allow the other end of the jumper cable connected to the "+" terminal to come into contact with any other parts or metal surfaces in the area, such as brackets or unpainted metal.
- Do not allow the + and clamps of the jumper cables to come into contact with each other.
- Do not allow open flame or use matches, cigarette lighters or smoke near the battery.

#### ■12-volt battery precautions

The 12-volt battery contains poisonous and corrosive acidic electrolyte, while related parts contain lead and lead compounds. Observe the following precautions when handling the 12-volt battery:

- When working with the 12-volt battery, always wear safety glasses and take care not to allow any battery fluids (acid) to come into contact with skin, clothing or the vehicle body.
- Do not lean over the 12-volt battery.
- In the event that battery fluid comes into contact with the skin or eyes, immediately wash the affected area with water and seek medical attention. Place a wet sponge or cloth over the affected area until medical attention can be received.
- Always wash your hands after handling the battery support, terminals, and other battery-related parts.
- Do not allow children near the 12-volt battery.

# **⚠** NOTICE

#### ■ Exclusive jump starting terminal precaution

The exclusive jump starting terminal is to be used when charging the 12-volt battery from another vehicle in an emergency. It cannot be used to jump start another vehicle.

#### ■ When handling jumper cables

When connecting the jumper cables, ensure that they do not become entangled in the cooling fans or belt.

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

#### The following may indicate that your vehicle is overheating:

• The high engine coolant temperature warning light comes on or flashes:

The engine may be overheating.

 "HYBRID SYSTEM OVERHEAT" is shown on the multi-information display:

The power control unit may be overheating.

Follow the correction procedure as described below.

#### Correction procedures

#### ■ If the engine coolant temperature warning light comes on or flashes

Step 1 Stop the vehicle in a safe place and turn off the air conditioning system.

STEP 2 Check to see if steam is coming out from the engine area.

If you see steam:

Stop the hybrid system. Carefully lift the hood after the steam subsides and then restart the hybrid system.

If you do not see steam:

Leave the hybrid system operating and carefully lift the hood.

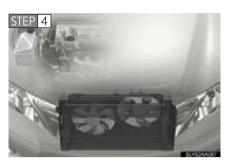
STEP 3 Check to see if the cooling fans are operating.

If the fans are operating:

Wait until the high engine coolant temperature warning light goes off and then stop the hybrid system.

If the fans are not operating:

Stop the hybrid system immediately and call your Lexus dealer.



After the hybrid system has cooled down sufficiently, check the engine coolant level and inspect the cooling system for leaks.

If the engine compartment cover needs to be removed.  $(\rightarrow P. 429)$ 



Add engine coolant if necessary.

Water can be used in an emergency if engine coolant is unavailable.  $(\rightarrow P. 560)$ 

Have the vehicle inspected at the nearest Lexus dealer as soon as possible.

# ■ If "HYBRID SYSTEM OVERHEAT" is shown on the multi-information display

STEP 1 Stop the vehicle in a safe place and turn off the air conditioning system.

STEP 2 Leave the hybrid system operating and carefully lift the hood.

STEP 3 Check if the cooling fans are operating.

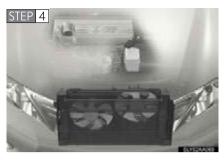
If the fans are operating:

Wait until the "HYBRID SYSTEM OVERHEAT" message disappears and then stop the hybrid system.

If the message does not disappear, call your Lexus dealer.

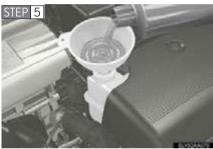
If the fans are not operating:

Stop the hybrid system immediately and call your Lexus dealer.



After the hybrid system has cooled down, check the power control unit coolant level and inspect the cooling system for leaks.

If the engine compartment cover needs to be removed.  $(\rightarrow P. 429)$ 



Add power control unit coolant if necessary.

Water can be used in an emergency if power control unit coolant is unavailable.  $(\rightarrow P. 560)$ 

Have the vehicle inspected at the nearest Lexus dealer as soon as possible.

### ■ Overheating

The following symptoms may occur when your vehicle is overheating:

- The high engine coolant temperature warning light comes on or flashes, or the hybrid system output decreases.
- Steam comes out from the engine area.
- "HYBRID SYSTEM OVERHEAT" is displayed on the multi-information display.

#### **A** CAUTION

#### ■ To prevent an accident or injury when inspecting under the hood of your vehicle

- If steam is seen coming from under the hood, do not open the hood until the steam has subsided. The engine compartment may be very hot, causing serious iniuries such as burns.
- Check that the indicator on the "POWER" switch and the READY indicator are off
- For vehicles with a hybrid system, there are times when the gasoline engine automatically starts to run or the cooling fans suddenly start to operate. Do not touch or approach the rotating parts of the belt or fans. Doing so may lead to fingers, clothes or tools getting caught, resulting in injury.
- Do not loosen the coolant reservoir cap while the hybrid system and radiator are
  - Serious injuries, such as burns, may result from hot coolant and steam released under pressure.



#### NOTICE

#### ■ When adding engine/power control unit coolant

Wait until the hybrid system has cooled down before adding engine/power control unit coolant.

When adding coolant, do so slowly. Adding cool coolant to a hot hybrid system too quickly can cause damage to the hybrid system.

#### If the vehicle becomes stuck

#### Carry out the following procedures if the tires spin or the vehicle becomes stuck in mud. dirt or snow:

- STEP 1 Apply the parking brake, change the shift position to P and stop the hybrid system.
- STEP 2 Remove the mud. snow or sand from around the stuck tire.
- STEP 3 Place wood, stones or some other material under the tires to help provide traction.
- STEP 4 Restart the hybrid system.
- STEP 5 Make sure to change the shift position to D or R, release the parking brake, and then carefully depress the accelerator pedal.

Turn off the TRAC and VSC systems if these functions are hampering your attempts to free the vehicle.  $(\rightarrow P.230)$ 

#### ■ When changing the shift position

Depress the brake pedal and ensure that the vehicle has stopped completely before changing the shift position. Failure to do so could cause the rejection function to be activated, canceling the shift position change, or causing the shift position to change to N automatically.

#### **A** CAUTION

#### ■ When attempting to free a stuck vehicle

If you choose to rock the vehicle back and forth to free it, make sure the surrounding area is clear to avoid striking other vehicles, objects or people. The vehicle may also lunge forward or lunge back suddenly as it becomes free. Use extreme caution.

#### ■ 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 resulting in death or serious injury.

# **⚠** NOTICE

- To avoid damage to the hybrid transmission and other components
  - Avoid spinning the wheels and depressing the accelerator pedal more than necessary.
  - If the vehicle remains stuck even after these procedures are performed, the vehicle may require towing to be freed.

# If your vehicle has to be stopped in an emergency

Only in an emergency, such as if it becomes impossible to stop the vehicle in the normal way, stop the vehicle using the following procedure:

STEP 1 Steadily step on the brake pedal with both feet and firmly depress it.

Do not pump the brake pedal repeatedly as this will increase the effort required to slow the vehicle.

STEP 2 Change the shift position to N.

#### If the shift position can be changed to N

STEP 3 After slowing down, stop the vehicle in a safe place by the road.

STEP 4 Stop the hybrid system.

#### If the shift position cannot be changed to N

STEP 3 Keep depressing the brake pedal with both feet to reduce vehicle speed as much as possible.



Stop the hybrid system by pressing and holding the "POWER" switch for 3 consecutive seconds or more.

STEP 5 Stop the vehicle in a safe place by the road.

#### **A** CAUTION

#### ■ If the hybrid system has to be turned off while driving

Power assist for the brakes and steering wheel will be lost, making the brake pedal harder to depress and the steering wheel heavier to turn. Decelerate as much as possible before turning off the hybrid system.

Vehicle specifications

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#### 6-1. Specifications

# Maintenance data (fuel, oil level, etc.)

### Dimensions and weights

Overall length		184.8 in. (4695 mm)
Overall width		70.3 in. (1785 mm)
Overall height*		59.3 in. (1505 mm)
Wheelbase		106.3 in. (2700 mm)
Tread	Front	60.4 in. (1535 mm)
	Rear	60.2 in. (1530 mm)
Vehicle capacity weight (Occupants + luggage)		825 lb. (375 kg)

<sup>\*·</sup> Unladen vehicles

# Vehicle identification

#### ■ Vehicle identification number

The vehicle identification number (VIN) is the legal identifier for your vehicle. This is the primary identification number for your Lexus. It is used in registering the ownership of your vehicle.

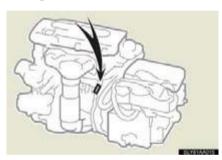


This number is stamped on the top left of the instrument panel and under the front passenger's seat (on some models).



This number is also on the Certification Label.

# ■ Engine number



The engine numbers is stamped on the engine block as shown.

# Engine

Model	2AZ-FXE
Туре	4-cylinder in line, 4-cycle, gasoline
Bore and stroke	$3.48 \times 3.78 \text{ in.} (88.5 \times 96.0 \text{ mm})$
Displacement	144.1 cu.in. (2362 cm <sup>3</sup> )
Drive belt tension	Automatic adjustment
Valve clearance (engine cold)	Intake: 0.007 — 0.011 in. (0.19 — 0.29 mm) Exhaust: 0.015 — 0.019 in. (0.38 — 0.48 mm)

# Fuel

Fuel type	Unleaded gasoline only
Octane rating	87 (Research octane number 91) or higher
Fuel tank capacity (Reference)	14.5 gal. (55 L, 12.5 lmp. gal.)

# Electric motor (Traction motor)

Туре	Permanent magnet synchronous motor
Maximum output	105 kW
Maximum torque	199 ft•lbf (270 N•m, 27.5 kgf•m)

# Hybrid battery (Traction battery)

Туре	Nickel-metal hydride battery
Voltage	7.2 V/module
Capacity	6.5 Ah (3HR)
Quantity	34 modules
Overall voltage	244.8 V

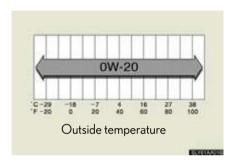
# Lubrication system

Oil capacity	
(Drain and refill	
-reference)	
With filter	4.5 qt. (4.3 L, 3.8 lmp.qt.)
Without filter	4.3 qt. (4.1 L, 3.6 lmp.qt.)

#### ■ Engine oil selection

"Toyota Genuine Motor Oil" is used in your Lexus vehicle. Use Lexus approved "Toyota Genuine Motor Oil" or equivalent to satisfy the following grade and viscosity.

Oil grade: ILSAC multigrade engine oil Recommended viscosity: SAE OW-20



SAE OW-20 is the best choice for good fuel economy and good starting in cold weather.

If SAE OW-20 is not available, SAE 5W-20 oil may be used. However, it must be replaced with SAE OW-20 at the next oil change.

The OW portion of the oil viscosity rating indicates the characteristic of the oil which allows cold startability. Oils with a lower value before the W allow for easier starting of the engine in cold weather.

The 20 in OW-20 indicates the oil viscosity when the oil is at its operating temperature. An oil with a higher viscosity may be better suited if the vehicle is operated at high speeds, or under extreme load conditions.

How to read oil container label:

The ILSAC (International Lubricant Standardization and Approval Committee) Certification Mark is added to some oil containers to help you select the oil you should use.



# Cooling system

Capacity Gasoline engine Power control unit	7.7 qt. (7.3 L, 6.4 lmp. qt.) 3.1 qt. (2.9 L, 2.6 lmp. qt.)
Coolant type	Use either of the following.  "Toyota Super Long Life Coolant"  A similar high-quality ethylene glycolbased non-silicate, non-amine, non-nitrite, and non-borate coolant with long-life hybrid organic acid technology  Do not use plain water alone.

# Ignition system

Spark plug	
Make	DENSO SK20R11
Gap	NGK IFR6A11 0.043 in. (1.1 mm)



#### ■ Iridium-tipped spark plugs

Use only iridium-tipped spark plugs. Do not adjust spark plug gap.

#### Electrical system

12-volt battery	
Open voltage* at 68°F (20°C):	12.6 — 12.8 V Fully charged 12.2 — 12.4 V Half charged 11.8 — 12.0 V Discharged (*: Voltage checked 20 minutes after the hybrid system and all the lights are turned off)
Charging rates	5 A max.

# Hybrid transaxle

Fluid capacity *	4.4 qt. (4.2 L, 3.7 lmp. qt.)
Fluid type	Toyota Genuine ATF WS

<sup>\*:</sup> The fluid capacity is a reference quantity. If replacement is necessary, contact your Lexus dealer.

#### **⚠** NOTICE

#### ■ Hybrid transaxle fluid type

Using hybrid transaxle fluid other than "Toyota Genuine ATF WS" may ultimately damage the hybrid transaxle of your vehicle.

### Brakes

Pedal clearance *1 Vehicles without scuff lights Vehicles with scuff lights	3.1 in. (78 mm) Min. 3.1 in. (80 mm) Min.
Pedal free play	0.04 — 0.24 in. (1 — 6 mm)
Brake pad wear limit	0.04 in. (1.0 mm)
Parking brake lining wear limit	0.04 in. (1.0 mm)
Parking brake pedal travel *2	8—11 clicks
Fluid type	SAE J1703 or FMVSS No.116 DOT 3

<sup>\*1:</sup> Minimum pedal clearance when depressed with a force of 44 lbf (196 N, 20 kgf) while the hybrid system is running

# Steering

Free play	Less than 1.2 in. (30 mm)
-----------	---------------------------

 $<sup>^{*2}</sup>$ : Parking brake pedal travel when depressed with a force of 67 lbf (300 N, 31 kgf)

# Tires and wheels

# Type A

Tire size	P215/55R17 93V, T145/70D17 106M (spare)
Tire inflation pressure (recommended cold tire inflation pressure)	Driving under normal conditions Front: 33 psi (230 kPa, 2.3 kgf/cm <sup>2</sup> or bar) Rear: 33 psi (230 kPa, 2.3 kgf/cm <sup>2</sup> or bar) Spare: 60 psi (420 kPa, 4.2 kgf/cm <sup>2</sup> or bar)
Wheel size	$17 \times 7J$ , $17 \times 4T$ (spare)
Wheel nut torque	76 ft•lbf (103 N•m, 10.5 kgf•m)

# Type B

Tire size	P225/45R18 91W, T145/70D17 106M (spare)
Tire inflation pressure (recommended cold tire inflation pressure)	Driving under normal conditions Front: 33 psi (230 kPa, 2.3 kgf/cm <sup>2</sup> or bar) Rear: 32 psi (220 kPa, 2.2 kgf/cm <sup>2</sup> or bar) Spare: 60 psi (420 kPa, 4.2 kgf/cm <sup>2</sup> or bar)
Wheel size	18 × 7 1/2 J, 17 × 4T (spare)
Wheel nut torque	76 ft•lbf (103 N•m, 10.5 kgf•m)

# Light bulbs

	Light Bulbs	Bulb No.	W	Туре
H H	LED headlights High beam Halogen headlights	9005	60	А
	High beam Low beam	9005 H11	60 55	A E
	Front side marker lights	W5W	5	С
Eutorion	Front turn signal lights	3457NA	28/8	F
Exterior	Parking lights	W5W	5	С
Front fog ligh	Front fog lights	H11	55	Е
	Rear turn signal lights	WY21W	21	D
	Back-up lights	W16W	16	С
	License plate lights	W5W	5	С
	Outer foot lights	_	5	С
Fron Interior Rear	Vanity lights	_	8	С
	Front interior lights/Personal lights	_	8	С
	Rear interior light	_	8	В
	Trunk light	_	3.8	С
	Door courtesy lights	_	5	С

A: HB3 halogen bulbs

B: Double end bulbs

C: Wedge base bulbs (clear)D: Wedge base bulbs (amber)

E: H11 halogen bulbs

F: Single end bulbs

6

You must only use unleaded gasoline in your vehicle.

Select octane rating 87 (Research Octane Number 91) or higher. Use of unleaded gasoline with an octane rating lower than 87 may result in engine knocking. Persistent knocking can lead to engine damage.

At minimum, the gasoline you use should meet the specifications of ASTM D4814 in the U.S.A. and CGSB3.5-M93 in Canada.

#### ■ Fuel tank opening for unleaded gasoline

To help prevent incorrect fueling, your vehicle has a fuel tank opening that only accommodates the special nozzle on unleaded fuel pumps.

#### ■ Gasoline quality

In very few cases, driveability problems may be caused by the brand of gasoline you are using. If driveability problems persist, try changing the brand of gasoline. If this does not correct the problem, consult your Lexus dealer.

#### ■ Gasoline quality standards

- Automotive manufacturers in the U.S.A., Europe and Japan have developed a specification for fuel quality called the World-Wide Fuel Charter (WWFC), which is expected to be applied worldwide.
- The WWFC consists of four categories that are based on required emission levels. In the U.S., category 4 has been adopted.
- The WWFC improves air quality by lowering emissions in vehicle fleets, and improves customer satisfaction through better performance.

#### ■ Recommendation of the use of gasoline containing detergent additives

- Lexus recommends the use of gasoline that contains detergent additives to avoid the build-up of engine deposits.
- All gasoline sold in the U.S.A. contains detergent additives to clean and/or keep clean intake systems.

#### ■ Recommendation of the use of cleaner burning gasoline

Cleaner burning gasoline, including reformulated gasoline that contains oxygenates such as ethanol or MTBE (Methyl Tertiary Butyl Ether) is available in many areas.

Lexus recommends the use of cleaner burning gasoline and appropriately blended reformulated gasoline. These types of gasoline provide excellent vehicle performance, reduce vehicle emissions and improve air quality.

#### ■ Non-recommendation of the use of blended gasoline

- Lexus allows the use of oxygenate blended gasoline where the oxygenate content is up to 10% ethanol or 15% MTBE.
- If you use gasohol in your vehicle, be sure that it has an octane rating no lower than 87.
- Lexus does not recommend the use of gasoline containing methanol.

#### ■ Non-recommendation of the use of gasoline containing MMT

Some gasoline contains an octane enhancing additive called MMT (Methylcyclopentadienyl Manganese Tricarbonyl).

Lexus does not recommend the use of gasoline that contains MMT. If fuel containing MMT is used, your emission control system may be adversely affected.

The malfunction indicator lamp on the instrument panel may come on. If this happens, contact your Lexus dealer for service.

#### ■ If your engine knocks

- Consult your Lexus dealer.
- You may occasionally notice light knocking for a short time while accelerating or driving uphill. This is normal and there is no need for concern.

# **⚠** NOTICE

#### ■ Notice on fuel quality

- Do not use improper fuels. If improper fuels are used, the engine will be damaged.
- Do not use leaded gasoline.
   Leaded gasoline can cause damage to your vehicle's three-way catalytic converters causing the emission control system to malfunction.
- Do not use gasohol other than the type previously stated.
   Other gasohol may cause fuel system damage or vehicle performance problems.
- Using unleaded gasoline with an octane number or rating lower than the level previously stated will cause persistent heavy knocking.
   At worst, this will lead to engine damage.

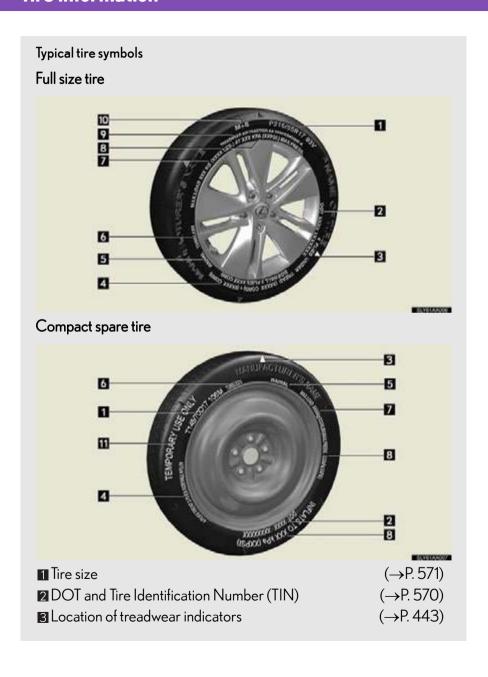
#### ■ Fuel-related poor driveability

If poor driveability is encountered after using a different type of fuel (poor hot starting, vaporization, engine knocking, etc.), discontinue the use of that type of fuel.

#### ■ When refueling with gasohol

Take care not to spill gasohol. It can damage your vehicle's paint.

# Tire information



4 Tire ply composition and materials

Plies are layers of rubber-coated parallel cords. Cords are the strands which form the plies in a tire.

**5** Radial tires or bias-ply tires

A radial tire has "RADIAL" on the sidewall. A tire not marked "RADIAL" is a bias-ply tire.

#### **6** TUBELESS or TUBE TYPE

A tubeless tire does not have a tube and air is directly put into the tire. A tube type tire has a tube inside the tire and the tube maintains the air pressure.

Z Load limit at maximum cold tire inflation pressure  $(\rightarrow P.447)$ 

■ Maximum cold tire inflation pressure  $(\rightarrow P. 563)$ This means the pressure to which a tire may be inflated.

Uniform tire quality grading

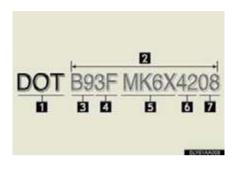
For details, see "Uniform Tire Quality Grading" that follows.  $\bigcirc$  P. 447)

An all season tire has "M+S" on the sidewall. A tire not marked "M+S" is a summer tire.

#### \*\*TEMPORARY USE ONLY" $(\rightarrow P. 532)$

A compact spare tire is identified by the phrase "TEMPORARY USE ONLY" molded on its sidewall. This tire is designed for temporary emergency use only.

### Typical DOT and Tire Identification Number (TIN)

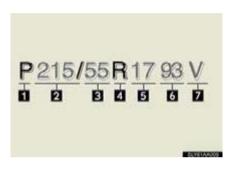


- **11** DOT symbol\*
- Tire Identification Number (TIN)
- Tire manufacturer's identification mark
- 4 Tire size code
- Manufacturer's optional tire type code (3 or 4 letters)
- 6 Manufacturing week
- Manufacturing year
  - \*:The DOT symbol certifies that the tire conforms to applicable Federal Motor Vehicle Safety Standards.

#### Tire size

### ■ Typical tire size information

The illustration indicates typical tire size.



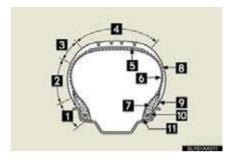
- Tire use
  (P = Passenger car,
  T = Temporary use)
- 2 Section width (millimeters)
- Aspect ratio
  (tire height to section width)
- ♣ Tire construction code (R = Radial, D = Diagonal)
- **5** Wheel diameter (inches)
- 6 Load index (2 digits or 3 digits)
- Speed symbol (alphabet with one letter)

#### ■ Tire dimensions



- Section width
- 2 Tire height
- 3 Wheel diameter

#### Tire section names



- 1 Bead
- 2 Sidewall
- **Shoulder**
- 4 Tread
- **5** Belt
- 6 Inner liner
- **▼** Reinforcing rubber
- Carcass
- 9 Rim lines
- **10** Bead wires
- **111** Chafer

#### Uniform Tire Quality Grading

This information has been prepared in accordance with regulations issued by the National Highway Traffic Safety Administration of the U.S. Department of Transportation.

It provides the purchasers and/or prospective purchasers of Lexus vehicles with information on uniform tire quality grading.

Your Lexus dealer will help answer any questions you may have as you read this information.

#### DOT quality grades

All passenger vehicle tires must conform to Federal Safety Requirements in addition to these grades. Quality grades can be found where applicable on the tire sidewall between tread shoulder and maximum section width.

For example: Treadwear 200 Traction AA Temperature A

#### ■ Treadwear

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

For example, a tire graded 150 would wear one and a half (1 - 1/2) times as well on the government course as a tire graded 100.

The relative performance of tires depends upon the actual conditions of their use. Performance may differ significantly from the norm due to variations in driving habits, service practices and differences in road characteristics and climate.

#### ■ Traction AA, A, B, C

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

A tire marked C may have poor traction performance.

Warning: The traction grade assigned to this tire is based on braking (straight ahead) traction tests and does not include cornering (turning) traction.

### Temperature A, B, C

The temperature grades are A (the highest), B, and C, representing the tire's resistance to the generation of heat and its ability to dissipate heat when tested under controlled conditions on a specified indoor laboratory test wheel.

Sustained high temperature can cause the material of the tire to degenerate and reduce tire life, and excessive temperature can lead to sudden tire failure.

Grade C corresponds to a level of performance which all passenger car tires must meet under the Federal Motor Vehicle Safety Standard No. 109.

Grades B and A represent higher levels of performance on the laboratory test wheel than the minimum required by law.

Warning: The temperature grades of a tire assume that it is properly inflated and not overloaded.

Excessive speed, underinflation, or excessive loading, either separately or in combination, can cause heat buildup and possible tire failure.

### Glossary of tire terminology

Tire related term	Meaning
Cold tire inflation pressure	Tire pressure when the vehicle has been parked for three hours or more, or has not been driven more than 1 mile or 1.5 km under that condition
Maximum inflation pressure	The maximum cold inflated pressure to which a tire may be inflated, shown on the sidewall of the tire
Recommended inflation pressure	Cold tire inflation pressure recommended by a manufacturer
Accessory weight	The combined weight (in excess of those standard items which may be replaced) of transmission, power steering, power brakes, power windows, power seats, radio and heater, to the extent that these items are available as factory-installed equipment (whether installed or not)
Curb weight	The weight of a motor vehicle with standard equipment, including the maximum capacity of fuel, oil and coolant, and if so equipped, air conditioning and additional weight optional engine
Maximum loaded vehicle weight	The sum of: (a) Curb weight (b) Accessory weight (c) Vehicle capacity weight (d) Production options weight
Normal occupant weight	150 lb. (68 kg) times the number of occupants specified in the second column of Table 1* that follows

Tire related term	Meaning
Occupant distribution	Distribution of occupants in a vehicle as specified in the third column of Table 1* below
Production options weight	The combined weight of installed regular production options weighing over 5 lb. (2.3 kg) in excess of the standard items which they replace, not previously considered in curb weight or accessory weight, including heavy duty brakes, ride levelers, roof rack, heavy duty battery, and special trim
Rim	A metal support for a tire or a tire and tube assembly upon which the tire beads are seated
Rim diameter (Wheel diameter)	Nominal diameter of the bead seat
Rim size designation	Rim diameter and width
Rim type designation	The industry manufacturer's designation for a rim by style or code
Rim width	Nominal distance between rim flanges
Vehicle capacity weight (Total load capacity)	The rated cargo and luggage load plus 150 lb. (68 kg) times the vehicle's designated seating capacity
Vehicle maximum load on the tire	The load on an individual tire that is determined by distributing to each axle its share of the maximum loaded vehicle weight, and dividing by two
Vehicle normal load on the tire	The load on an individual tire that is determined by distributing to each axle its share of curb weight, accessory weight, and normal occupant weight (distributed in accordance with Table 1* below), and dividing by two
Weather side	The surface area of the rim not covered by the inflated tire

Tire related term	Meaning
Bead	The part of the tire that is made of steel wires, wrapped or reinforced by ply cords and that is shaped to fit the rim
Bead separation	A breakdown of the bond between components in the bead
Bias ply tire	A pneumatic tire in which the ply cords that extend to the beads are laid at alternate angles substantially less than 90 degrees to the centerline of the tread
Carcass	The tire structure, except tread and sidewall rubber which, when inflated, bears the load
Chunking	The breaking away of pieces of the tread or sidewall
Cord	The strands forming the plies in the tire
Cord separation	The parting of cords from adjacent rubber compounds
Cracking	Any parting within the tread, sidewall, or innerliner of the tire extending to cord material
СТ	A pneumatic tire with an inverted flange tire and rim system in which the rim is designed with rim flanges pointed radially inward and the tire is designed to fit on the underside of the rim in a manner that encloses the rim flanges inside the air cavity of the tire
Extra load tire	A tire designed to operate at higher loads and at higher inflation pressures than the corresponding standard tire
Groove	The space between two adjacent tread ribs
Innerliner	The layer(s) forming the inside surface of a tubeless tire that contains the inflating medium within the tire
Innerliner separation	The parting of the innerliner from cord material in the carcass

Tire related term	Meaning
Intended outboard side- wall	<ul> <li>(a) The sidewall that contains a whitewall, bears white lettering, or bears manufacturer, brand, and/or model name molding that is higher or deeper than the same molding on the other sidewall of the tire, or</li> <li>(b) The outward facing sidewall of an asymmetrical tire that has a particular side that must always face outward when mounted on a vehicle</li> </ul>
Light truck (LT) tire	A tire designated by its manufacturer as primarily intended for use on lightweight trucks or multipurpose passenger vehicles
Load rating	The maximum load that a tire is rated to carry for a given inflation pressure
Maximum load rating	The load rating for a tire at the maximum permissible inflation pressure for that tire
Maximum permissible inflation pressure	The maximum cold inflation pressure to which a tire may be inflated
Measuring rim	The rim on which a tire is fitted for physical dimension requirements
Open splice	Any parting at any junction of tread, sidewall, or innerliner that extends to cord material
Outer diameter	The overall diameter of an inflated new tire
Overall width	The linear distance between the exteriors of the sidewalls of an inflated tire, including elevations due to labeling, decorations, or protective bands or ribs
Passenger car tire	A tire intended for use on passenger cars, multipurpose passenger vehicles, and trucks, that have a gross vehicle weight rating (GVWR) of 10,000 lb. or less.
Ply	A layer of rubber-coated parallel cords

Tire related term	Meaning
Ply separation	A parting of rubber compound between adjacent plies
Pneumatic tire	A mechanical device made of rubber, chemicals, fabric and steel or other materials, that, when mounted on an automotive wheel, provides the traction and contains the gas or fluid that sustains the load
Radial ply tire	A pneumatic tire in which the ply cords that extend to the beads are laid at substantially 90 degrees to the centerline of the tread
Reinforced tire	A tire designed to operate at higher loads and at higher inflation pressures than the corresponding standard tire
Section width	The linear distance between the exteriors of the side- walls of an inflated tire, excluding elevations due to labeling, decoration, or protective bands
Sidewall	That portion of a tire between the tread and bead
Sidewall separation	The parting of the rubber compound from the cord material in the sidewall
Snow tire	A tire that attains a traction index equal to or greater than 110, compared to the ASTM E-1136 Standard Reference Test Tire, when using the snow traction test as described in ASTM F-1805-00, Standard Test Method for Single Wheel Driving Traction in a Straight Line on Snow-and Ice-Covered Surfaces, and which is marked with an Alpine Symbol ( ) on at least one sidewall
Test rim	The rim on which a tire is fitted for testing, and may be any rim listed as appropriate for use with that tire
Tread	That portion of a tire that comes into contact with the road

Tire related term	Meaning
Tread rib	A tread section running circumferentially around a tire
Tread separation	Pulling away of the tread from the tire carcass
Treadwear indicators (TWI)	The projections within the principal grooves designed to give a visual indication of the degrees of wear of the tread
Wheel-holding fixture	The fixture used to hold the wheel and tire assembly securely during testing

<sup>\*:</sup> Table 1 — Occupant loading and distribution for vehicle normal load for various designated seating capacities

Designated seating capacity, Number of occupants	Vehicle normal load, Number of occupants	Occupant distribution in a normally loaded vehicle
2 through 4	2	2 in front
5 through 10	3	2 in front, 1 in second seat
11 through 15	5	2 in front, 1 in second seat, 1 in third seat, 1 in fourth seat
16 through 20	7	2 in front, 2 in second seat, 2 in third seat, 1 in fourth seat

# Customizable features

Your vehicle includes a variety of electronic features that can be personalized to suit your preferences. Programming these preferences requires specialized equipment and may be performed by your Lexus dealer.

It is also possible to customize certain vehicle features yourself using the multi-information switches and the navigation screen.

Some function settings are changed simultaneously with other functions being customized. Contact your Lexus dealer for further details.

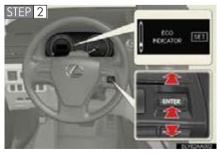
### Customizing vehicle features

It is possible to customize certain vehicle features using the multi-information switches.\*

When customizing vehicle features, ensure that the vehicle is parked in a safe place with the P position indicator and P position switch illuminated and the parking brake set.



Press and hold the menu switch of the multi-information switches to display customization mode.



Press the "ENTER" switch upwards or downwards to select the item to be customized and press the "ENTER" switch to confirm.



Press the "ENTER" switch upwards or downwards to select the desired setting for the item being customized and press the "ENTER" switch to confirm.

When customization is completed, press the menu switch to clear the customization screen.

\*: For instructions on customizing vehicle features using the navigation screen, refer to the "Navigation System Owner's Manual".

# Customizable Features

- Vehicles with a navigation system: Settings that can be changed using the screen of the navigation system
- Vehicles with a navigation system: Settings that can be changed using the multi-information switches
- Sehicles without a navigation system: Settings that can be changed using the multi-information switches
- ☑ Settings that can be changed by your Lexus dealer Definition of symbols: O = Available, = Not available

ltem	Function	Default setting	Custom- ized setting	1	2	3	4
Door lock (→P. 58, 540)	Unlocking using a key	Driver's door unlocked in one step, all doors unlocked in two steps	All doors unlocked in one step	0	-	_	0
	Speed-detect- ing automatic door lock func- tion	Off	On	0	-	0	0
	Selecting other than P position locks all doors	On	Off	0	_	0	0
	Pressing the P position switch unlocks all doors	On	Off	0	_	0	0

ltem	Function	Default setting	Custom- ized setting	1	2	3	4
Door lock (→P. 58, 540)	Opening driver's door unlocks all doors	Off	On	0	-	0	0
Smart	Operation signal (Emergency flashers)	On	Off	0	-	0	0
access sys- tem with	Open door warning buzzer	On	Off	-	-	-	0
push-button start and	Operation signal (buzzer volume)	Level 7	OFF to level 6	0	-	0	0
wireless remote con-	Time elapsed	60 sec-	Off	0			
trol (→P. 45,	before the auto- matic door lock function is acti-		30 sec- onds		_	0	0
55)	vated if a door is not opened after being unlocked	onds	120 sec- onds				
C 1	Smart door unlocking	Driver's door	All the doors	0	-	0	0
Smart access sys- tem with push-button start	Smart access system with push-button start	On	Off	0	-	0	0
(→P. 45)	Number of con- secutive door lock operations	2 times	As many as desired	_	-	-	0

ltem	Function	Default setting	Custom- ized setting	1	2	3	4
	Wireless remote control	On	Off	-	-	_	0
Wireless remote con-	Unlocking operation	Driver's door unlocked in one step, all doors unlocked in two steps	All doors unlocked in one step	0	-	0	0
trol (→P. 55)	Panic function	On	Off	-	-	-	0
	Trunk unlocking operation	Press and hold (short)	One short press	-	-	-	0
			Press twice	-	-	-	0
			Press and hold (long)	-	-	_	0
			Off	-	-	-	0
			Off				
Automatic	Time elapsed before the head-	30 sec-	60 sec- onds	0	-	0	0
light control system (→P.186)	lights turn off		90 sec- onds				
	Light sensor sensitivity	Standard	-2 to 2	0	-	0	0

ltem	Function	Default setting	Custom- ized setting	1	2	3	4
Lights (→P. 186)	Daytime run- ning light system	On	Off*	0	-	0	0
			Off				
	Time elapsed before the inte-	15 seconds	7.5 sec- onds	0	_	0	0
	rior lights turn off		30 sec- onds				
	Operation after the "POWER" switch is turned off	On	Off	-	-	_	0
Illumination (→P. 364)	Operation when the doors are unlocked	On	Off	_	_	_	0
	Activate on approach of per- son carrying smart key	On	Off	-	_	_	0
			Off				
	Time elapsed before the exte-	15 seconds	7.5 sec- onds	0	_	0	0
	rior lights turn off	off	30 sec- onds				
	Footwell lighting	On	Off	-	-	-	0

<sup>\*:</sup> Vehicles sold outside Canada

ltem	Function	Default setting	Custom- ized setting	1	2	3	4
	Outer foot lights activate on approach of per- son carrying smart key	On	Off	-	_	_	0
Illumination (→P. 364)	Outer foot lights operation when the doors are unlocked	On	Off	-	-	_	0
	Remote touch light	On	Off	_	_	_	0
Meter	Sensitivity of the ambient light sensor used for dimming the meter lights etc.	Standard	-2 to 2	0	_	_	0
(→P.164)	Sensitivity of the ambient light sensor used for brightening the meter lights etc.	Standard	-2 to 2	0	_	_	0
Automatic air conditioning system (→P. 256)	Switching between outside air and recircu- lated air mode linked to "AUTO" switch operation	Auto	Manual	0	-	-	0

ltem	Function	Default setting	Custom- ized setting	1	2	3	4
Automatic	A/C Auto switch operation	Auto	Manual	0	-	-	0
tioning system (→P. 256)	Turning on the windshield defogger activates the A/C	On	Off	_	_	-	0
Eco drive mode (→P. 157)	Heating/cooling operation minimized in Eco drive mode	On	Off	-	-	-	0
Front seats	Driver's seat movement when exiting the vehi-	Partial	Off	0		0	0
(→P. 65)	cle (on some models)		Full		_	O	O
Eco Driving Indicator Light (→P. 172)	Activating Eco Driving Indica- tor Light	On	Off	_	0	0	0
	Mechanical key linked operation	Off	On	-	-	_	0
Power windows (→P. 87)	Wireless remote control linked operation	Off	On (Open only)	-	_	_	0
· · · · · · · · · · · · · · · · · · ·	Buzzer sounds if operated using wireless remote	On	Off	_	-	_	0

ltem	Function	Default setting	Custom- ized setting	1	2	3	4
	Mechanical key linked opera- tion*	On	Off	-	-	_	0
Moon roof	Linked operation of components when door key is used	Slide only	Tilt only	-	-	-	0
(→P. 90)	Wireless remote control linked operation*	On (Open only)	Off	-	_	-	0
	Linked operation of components when wireless remote control used	Slide only	Tilt only	_	_	_	0
			Off	-	-	-	0
	Time elapsed before the		0 seconds	-	-	-	0
Rear sun- shade	reverse opera- tion feature acti-	0.7 sec- onds	0.9 sec- onds	-	-	-	0
(→P. 382)	vates		1.2 sec- onds	-	-	-	0
	Reverse operation	On	Off	-	-	-	0

<sup>\*:</sup> This function cannot be customized unless power window operation using the wireless remote control or mechanical key is enabled.

ltem	Function	Default setting	Custom- ized setting	1	2	3	4
Driving position memory (Driver's seat) (→P. 69)	Called up when door is opened with smart access system with push-but- ton start	Driver's door	All doors	-	_	-	0
	Signal (buzzer) when the distance to obstacles does not change for 3 seconds or more	On	Off	_	_	_	0
Intuitive parking assist*	Signal (buzzer) when the shift position is changed to N	On	Off	-	_	_	0
	Active sensors when the shift position is out of P or R	Front corners	Rear centers, Rear corners	_	-	-	0
Seat belt reminder (→P. 501)	Vehicle speed linked seat belt reminder buzzer	On	Off	-	-	-	0
Reverse buzzer (→P.158)	Signal (buzzer) when the shift position is in R	Intermit- tent	Single	_	_	-	0

<sup>\*:</sup> Refer to "Navigation System Owner's Manual"

# Multi-information display ( $\rightarrow$ P. 172)

Settings that can be changed using the multi-information switches

Available units	miles (MPG), km (km/l), km (l/100 km)
Available languages	English, French and Spanish

#### ■ Vehicle customization

- When the "Speed-detecting automatic door lock function" and "Selecting other than P position locks all doors" are both on, the door lock operates as follows.
  - When any one of the shift position indicators other than P is illuminated, all the doors will be locked.
  - If the vehicle is started with all the doors locked, the "Speed-detecting automatic door lock function" would not operate.
  - If the vehicle is started with any door unlocked, the "Speed-detecting automatic door lock function" will operate.
- When the smart access system with push-button start is off, the "Smart door unlocking function" cannot be customized.
- When the doors remain closed after unlocking the doors and the "Automatic door lock function" activates, the signals will be generated in accordance with the "Operation signal (emergency flashers)" and the "Operation signal (buzzer volume)" settings.
- In the following situations, customize mode in which the settings can be changed through the multi-information switches will automatically be turned off.
  - A warning message appears after the customize mode screen is displayed.
  - The "POWER" switch is turned off.
  - The vehicle begins to move while the customize mode screen is displayed.

# **A** CAUTION

#### Cautions during customization

As the hybrid system needs to be running during customization, ensure that the vehicle is parked in a place with adequate ventilation. In a closed area such as a garage, exhaust gases including harmful carbon monoxide (CO) may collect and enter the vehicle. This may lead to death or a serious health hazard.



# NOTICE

#### ■ During customization

To prevent 12-volt battery discharge, ensure that the hybrid system is running while customizing features.

# Items to initialize

The following items must be initialized for normal system operation after such cases as the 12-volt battery being reconnected, or maintenance being performed on the vehicle.

ltem	When to initialize	Reference
Engine oil maintenance data	After changing engine oil	P. 432
Tire pressure warning system	<ul> <li>When rotating the tires on vehicles with differing front and rear tire infla- tion pressures</li> <li>When changing the tire size</li> </ul>	P. 443

# For owners

7

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# Reporting safety defects for U.S. owners

If you believe that your vehicle has a defect which could cause a crash or could cause injury or death, you should immediately inform the National Highway Traffic Safety Administration (NHTSA) in addition to notifying the Lexus Division of Toyota Motor Sales, U.S.A., Inc. (Toll-free: 1-800-25-LEXUS).

If NHTSA receives similar complaints, it may open an investigation, and if it finds that a safety defect exists in a group of vehicles, it may order a recall and remedy campaign. However, NHTSA cannot become involved in individual problems between you, your dealer, or the Lexus Division of Toyota Motor Sales, U.S.A., Inc.

To contact NHTSA, you may call the Vehicle Safety Hotline toll-free at 1-888-327-4236 (TTY: 1-800-424-9153); go to <a href="http://www.safercar.gov">http://www.safercar.gov</a>; or write to: Administrator, NHTSA, 1200 New Jersey Ave, S.E., Washington, DC 20590. You can also obtain other information about motor vehicle safety from <a href="http://www.safercar.gov">http://www.safercar.gov</a>.

# Seat belt instructions for Canadian owners (in French)

The following is a French explanation of seat belt instructions extracted from the seat belt section in this manual.

See the seat belt section for more detailed seat belt instructions in English.

# Utilisation adéquate des ceintures de sécurité



- Tirez sur la ceinture épaulière jusqu'à ce qu'elle recouvre entièrement l'épaule; elle ne doit cependant pas toucher le cou ni glisser de l'épaule.
- Placez la sangle abdominale de la ceinture de sécurité le plus bas possible sur les hanches.
- Réglez la position du dossier du siège. Tenez-vous assis dans le fond du siège, le dos droit.
- Ne tournez pas la ceinture de sécurité.

#### Entretien et soins

#### Ceintures de sécurité

Avec un tissu ou une éponge, nettoyez à l'aide d'un savon doux et de l'eau tiède. Vérifiez aussi les ceintures régulièrement pour vous assurer qu'elles ne présentent pas d'usure excessive, d'effilochage ou de coupures.

# **A** ATTENTION

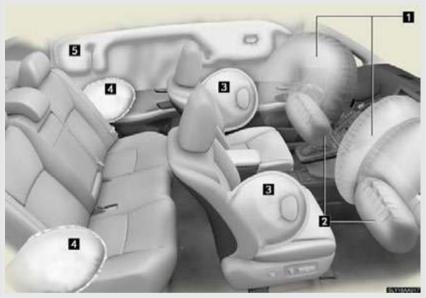
#### ■ Dommages et usure de la ceinture de sécurité

Vérifiez périodiquement le système de ceintures de sécurité. Assurez-vous qu'il n'y a pas de coupures, d'effilochures ni de pièces desserrées. N'utilisez pas une ceinture de sécurité endommagée avant qu'elle soit remplacée. Des ceintures de sécurité endommagées ne peuvent pas protéger les occupants contre les blessures.

# SRS airbag instructions for Canadian owners (in French)

The following is a French explanation of SRS airbag instructions extracted from the SRS airbag section in this manual.

See the SRS airbag section for more detailed SRS airbag instructions in English.



# Coussins gonflables SRS frontaux

■ Coussins gonflables conducteur/coussins gonflables passager avant SRS

Participent à la protection de la tête et du thorax du conducteur et du passager avant contre les chocs avec les éléments de l'habitacle

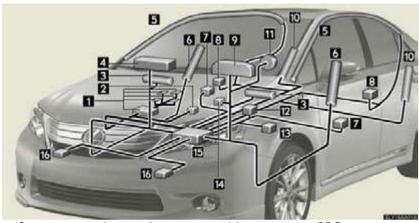
■ Coussins gonflables SRS de genoux
 Participent à la protection du conducteur et du passager avant
 ■ Coussins gonflables SRS de genoux
 ■ Coussins gonflables gonf

# Coussins gonflables SRS latéraux et rideau

- Coussins gonflables SRS latéraux avant Participent à la protection du haut du corps des occupants aux places avant
- 4 Coussins gonflables SRS latéraux arrière Participent à la protection du thorax des occupants assis aux places arrière extérieures
- Coussins gonflables rideau SRS

  Participent principalement à la protection de la tête des occupants assis dans les sièges des places extérieures

# Composition du système de coussins gonflables SRS



- Système de détection d'occupation du siège (ECU et capteurs)
- Contacteur de boucle de ceinture de sécurité du passager avant
- Coussins gonflables de protection des genoux
- Coussin gonflable du passager avant
- **5** Coussins gonflables rideaux
- 6 Coussins gonflables latéraux avant
- Capteurs de coussin gonflable en rideau et latéraux
- Capteurs de coussin gonflable en rideau et arrière

- 9 Voyant témoin SRS
- Coussins gonflables latéraux arrière
- Coussin gonflable du conducteur
- Contacteur de boucle de ceinture de sécurité du conducteur
- Capteur de position de siège du conducteur
- Voyants "AIR BAG ON" et "AIR BAG OFF"
- **B**Oîtier électronique de coussins gonflables
- Capteurs de coussin gonflable avant

Votre véhicule est équipé de COUSSINS GONFLABLES INTELLIGENTS (ADVANCED AIRBAGS) conçus selon les normes de sécurité américaines applicables aux véhicules motorisés (FMVSS208). Le système de coussins gonflables contrôle la puissance de déploiement des coussins du conducteur et du passager avant. Le système de coussin gonflable conducteur comprend le capteur de position du siège conducteur, etc. Le système du passager avant est constitué du capteur de classification de l'occupant du siège du passager avant, etc.

Les composants principaux du système de coussins gonflables SRS sont illustrés ci-dessus. Il est contrôlé par le module de capteur de coussin gonflable. Le module de capteur de coussin gonflable est constitué d'un capteur de sûreté et d'un capteur de coussin gonflable.

Lors de certains types de collision frontale ou latérale violente, le système de coussins gonflables SRS déclenche les dispositifs de gonflage des coussins. Une réaction chimique se produit dans ces dispositifs et les coussins gonflables se remplissent rapidement d'un gaz non toxique pour empêcher tout mouvement des occupants.

#### ■ Précautions relatives aux coussins gonflables SRS

Respectez les précautions suivantes concernant les coussins gonflables SRS. Les négliger pourrait occasionner des blessures graves, voire mortelles.

- Le conducteur et tous les passagers du véhicule doivent porter leur ceinture de sécurité de la manière appropriée.
   Les coussins gonflables SRS sont des dispositifs supplémentaires qui doivent être
  - Les coussins gontlables SRS sont des dispositifs supplémentaires qui doivent être utilisés de concert avec les ceintures de sécurité.
- Le coussin gonflable SRS du conducteur se déploie avec une puissance considérable et peut occasionner des blessures graves, voire mortelles, notamment lorsque le conducteur se trouve très près du coussin gonflable. L'autorité fédérale chargée de la sécurité routière aux États-Unis, la NHTSA (National Highway Traffic Safety Administration) conseille:

La zone à risque d'un coussin gonflable côté conducteur couvre 2 - 3 in. (50 - 75 mm) de la zone de déploiement du coussin gonflable, pour assurer une marge de sécurité suffisante, restez à 10 in. (250 mm) du coussin gonflable. Cette distance est mesurée depuis le centre du volant jusqu'à votre sternum. Si vous vous tenez à moins de 10 in. (250 mm), vous pouvez changer votre position de conduite de plusieurs manières:

- Reculez votre siège à la position maximale vous permettant d'atteindre encore aisément les pédales.
- Inclinez légèrement le dossier du siège.
   Même si les véhicules sont conçus différemment, la plupart des conducteurs peuvent maintenir une distance de 10 in. (250 mm), même si le siège se trouve complètement vers l'avant, simplement en inclinant un peu le dossier du siège vers l'arrière. Si la visibilité avant est moindre après avoir incliné le dossier du siège, utilisez un coussin ferme et non glissant pour être assis plus haut ou relevez l'assise du siège si cette option est disponible sur votre véhicule.
- Si votre volant est réglable en hauteur, inclinez-le vers le bas. Cela vous permet d'orienter le coussin gonflable vers votre buste plutôt que vers la tête et le cou.

Le siège doit être réglé en respectant les recommandations ci-dessus de la NHTSA, tout en conservant le contrôle des pédales, du volant et l'accès visuel des commandes et des instruments.

#### ■ Précautions relatives aux coussins gonflables SRS



- Si vous attachez une rallonge de ceinture de sécurité à la boucle du siège conducteur, mais pas à la ceinture de sécurité proprement dite, le système de SRS gonflable conducteur coussin détermine que vous avez attaché votre ceinture de sécurité, alors que ce n'est pas le cas. Dans ce cas. le coussin gonflable SRS conducteur risque de ne pas se déployer correctement en cas d'accident. et vous risquez d'être tué ou grièvement blessé. Bouclez toujours votre ceinture de sécurité lorsque vous utilisez la rallonge.
- Le coussin gonflable SRS du passager avant se déploie également avec une puissance considérable et peut occasionner des blessures graves, voire mortelles, notamment lorsque le passager avant se trouve très près du coussin gonflable. Le siège du passager avant doit se trouver le plus loin possible du coussin gonflable et le dossier doit être réglé de manière à ce que le passager avant soit assis bien droit.
- Le déploiement d'un coussin gonflable risque d'infliger des blessures graves, voire mortelles, aux bébés et aux enfants mal assis et/ou mal attachés. Un bébé ou un enfant trop petit pour utiliser une ceinture de sécurité doit être correctement retenu à l'aide d'un dispositif réservé aux enfants. Lexus recommande vivement d'installer tous les nourrissons et enfants aux places arrière du véhicule et de prévoir pour eux des systèmes de retenue adaptés. Les sièges arrière sont plus sûrs pour les nourrissons et les enfants que le siège passager avant.
- N'installez jamais un siège de sécurité enfant type dos à la route sur le siège passager avant, même si le voyant "AIR BAG OFF" est allumé. En cas d'accident, la puissance et la vitesse de déploiement du coussin gonflable du passager avant sont telles qu'elles pourraient infliger à l'enfant des blessures graves, voire mortelles, si le dispositif de retenue pour enfants du type dos à la route était installé sur le siège du passager avant.

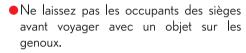
#### ■ Précautions relatives aux coussins gonflables SRS



 Ne vous asseyez pas sur le bord du siège et ne vous appuyez pas sur le tableau de bord.



 Ne laissez pas un enfant se tenir face au coussin gonflable SRS du passager avant ou s'asseoir sur les genoux d'un passager avant.





 Ne vous appuyez pas sur la portière ou sur le longeron du toit, ni sur les montants avant, latéraux ou arrière.



 Ne laissez personne s'agenouiller face à la portière sur les sièges du passager ou sortir la tête ou les mains à l'extérieur du véhicule.

### ■ Précautions relatives aux coussins gonflables SRS





- Ne fixez ni ne posez aucun objet sur le tableau de bord, la garniture centrale du volant de direction et la partie inférieure du tableau de bord.
  - Lors du déploiement des coussins gonflables SRS conducteur, passager avant et genoux, tout objet risque de se transformer en projectile.
- Ne fixez aucun objet sur les portières, le pare-brise, les vitres latérales, les montants avant et arrière, le rail latéral de toit et la poignée de maintien.
- N'accrochez pas de cintres ni d'autres objets rigides sur les crochets portevêtements. En cas de déploiement des coussins gonflables SRS rideau, tous ces objets pourraient se transformer en projectiles et causer des blessures graves, voire mortelles.
- Si le cache en vinyle est mis dans la zone où le coussin gonflable SRS de genoux se déploie, assurez-vous de l'enlever.
- N'utilisez pas d'accessoires recouvrant les parties du siège où les coussins gonflables SRS latéraux se déploient, car ceux-ci pourraient nuire au déploiement de ces coussins. De tels accessoires peuvent empêcher les coussins gonflables latéraux de fonctionner correctement, désactiver le dispositif ou entraîner le déploiement accidentel des coussins latéraux, entraînant la mort ou des blessures graves.
- Evitez de faire subir des chocs ou des pressions excessives aux zones renfermant les composants des coussins gonflables SRS.
   Ces actions peuvent entraîner un mauvais fonctionnement des coussins gonflables SRS.
- Ne touchez à aucun composant des coussins gonflables SRS immédiatement après leur déploiement (gonflage), car ils pourraient être chauds.

#### ■ Précautions relatives aux coussins gonflables SRS

- Si vous avez des difficultés à respirer après le déploiement des coussins gonflables SRS, ouvrez une portière ou une vitre pour faire entrer de l'air frais, ou bien descendez du véhicule si cela ne présente pas de danger. Dès que possible, nettoyez tous les résidus afin d'éviter les irritations cutanées.
- Si les parties renfermant les coussins gonflables SRS, telles que la garniture du moyeu de volant et les garnitures de montants avant et arrière, apparaissent abîmées ou craquelées, faites-les remplacer par votre concessionnaire Lexus.

#### ■ Modification et mise au rebut des éléments du système de coussins gonflables SRS

Consultez impérativement votre concessionnaire Lexus si vous avez besoin d'intervenir sur votre véhicule ou de procéder à l'une des modifications suivantes. Les coussins gonflables SRS pourraient fonctionner de manière incorrecte ou se déployer (gonfler) accidentellement, ce qui serait susceptible d'occasionner des blessures graves, voire mortelles.

- Installation, dépose, démontage et réparations des coussins gonflables SRS
- Réparations, modifications, retrait ou remplacement du volant, du bloc d'instrumentation, du tableau de bord, des sièges, du capitonnage des sièges ou des garnitures latérales (rembourrage) des sièges arrière, des montants avant, latéraux ou arrière et des longerons du toit
- Réparation ou modification des ailes avant, du bouclier avant, ou des flancs de l'habitacle
- Installation de chasse-neige, de treuils, etc., sur la calandre (pare-buffle ou parekangourou, etc.)
- Modification des suspensions du véhicule
- Installation d'appareils électroniques, tels qu'un émetteur/récepteur radio ou lecteur de CD
- Aménagements du véhicule visant à permettre sa conduite par une personne atteinte d'un handicap physique

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For information regarding the equipment listed below, refer to the "Navigation System Owner's Manual".

- Navigation system
- Audio/video system
- Air conditioning
- · Rear window and outside rear view mirror defogging
- Windshield wiper de-icer
- Climate control
- Rear view monitor system
- Wide view front monitor system
- Intuitive parking assist

# Abbreviation/Acronym list

ABBREVIATIONS	MEANING
A/C	Air Conditioning
ABS	Anti-lock Brake System
AFS	Adaptive Front-lighting System
ALR	Automatic Locking Retractor
CAL	Calibration
CRS	Child Restraint System
ECO	Economy/Ecology
ECU	Electronic Control Unit
EDR	Event Data Recorder
ELR	Emergency Locking Retractor
EPS	Electric Power Steering
GAWR	Gross Axle Weight Ratings
GPS	Global Positioning System
GVWR	Gross Vehicle Weight Rating
HUD	Head-up Display
I/M	Emission Inspection and Maintenance
LATCH	Lower Anchors and Tethers for Children
LED	Light Emitting Diode
LKA	Lane-Keeping Assist
MMT	Methylcyclopentadienyl Manganese Tricarbonyl
M+S	Mud and Snow
MTBE	Methyl Tertiary Butyl Ether
OBD	On Board Diagnostics
PCS	Pre-Collision System
SRS	Supplemental Restraint System

ABBREVIATIONS	MEANING
TIN	Tire Identification Number
TPMS	Tire Pressure Warning System
TRAC	Traction Control
VIN	Vehicle Identification Number
VSC	Vehicle Stability Control

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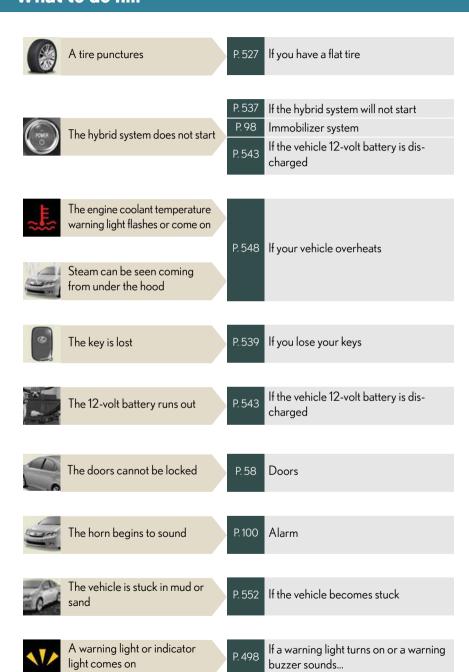
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<sup>\*:</sup> Refer to "Navigation System Owner's Manual".

# What to do if... What to do if...



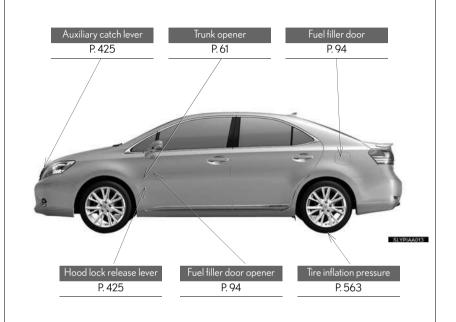


## ■Warning lights

<b>BRAKE</b> Brake system warning light	AFS OFF" indicator light* P. 500
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Charging system warning light P. 498	LKA" indicator light* P. 500
High engine coolant temperature warning light P. 499	Cruise control indicator light* P. 500
Brake system warning light P. 499	Radar cruise control indicator light* P. 500
Malfunction indicator lamp	Open door warning light P. 501
P. 499	Low fuel level warning light P. 501
SRS warning light P. 499	Driver's seat belt reminder light P. 501
ABS "ABS" warning light	Front passenger's seat belt reminder light P. 501
or P. 499	Master warning light P. 501
Electric power steering system warning light P. 500	Tire pressure warning light P. 502
Pre-collision system warning light* P. 500	Automatic High Beam Indicator light* P. 500

 $<sup>\</sup>ensuremath{^{\star}}\xspace$  . The light flashes to indicate a malfunction.





Fuel tank capacity (Reference)	14.5 gal. (55 L, 12.5 lmp. gal.)		
Fuel type	Unleaded gasoline only		P. 558
Cold tire inflation pressure			P. 563
Engine oil capacity (Drain and refill -reference)	With filter Without filter	qt. (L, Imp. qt.) 4.5 (4.3, 3.8) 4.3 (4.1, 3.6)	
Engine oil type	Toyota Genuine Motor Oil or equivalent Oil grade: ILSAC multigrade engine oil Recommended oil viscosity: SAE-0W-20		P. 559