

GAS STATION INFORMATION

- **Fuel selection:**

Select Octane Rating 87 (Research Octane Number 91) or higher. For improved vehicle performance, the use of premium unleaded gasoline with an Octane Rating 91 (Research Octane Number 96) or higher is recommended.

- **Fuel tank capacity:**

65 L (17.2 gal., 14.3 Imp. gal.)

- **Engine oil:**

“Toyota Genuine Motor Oil” or equivalent

Oil grade: ILSAC multigrade engine oil

Recommended oil viscosity: SAE 5W–30

Oil capacity: L (qt., Imp. qt.)

Drain and refill

With filter 4.7 (5.0, 4.1)

Without filter 4.5 (4.8, 4.0)

See page 543 for detailed information.

- **Coolant:**

Capacity: L (qt., Imp. qt.)

Gasoline engine

10.3 (10.9, 9.0)

Inverter

3.4 (3.6, 3.0)

Coolant type — “Toyota Super Long Life Coolant” or similar high quality ethylene glycol based non-silicate, non-amine, non-nitrite, and non-borate coolant with long-life hybrid organic acid technology (Coolant with long-life hybrid organic acid technology is a combination of low phosphates and organic acids.)

Do not use plain water alone.

For checking the engine coolant, see page 547.

- **Transaxle:**

Fluid type — **Toyota Genuine ATF WS**

See page 552 for detailed information.

- **Tire information:**

See pages 556 through 578 for detailed information.

- **Tire inflation pressure:**

Tire size: 225/65R17 101S or P235/55R18 99V

Tire inflation pressure: cold tires
kPa (kgf/cm² or bar, psi)

	225/65R17 101S	P235/55R18 99V
Front	220 (2.2, 32)	210 (2.1, 30)
Rear	220 (2.2, 32)	210 (2.1, 30)
Spare	220 (2.2, 32)	210 (2.1, 30)

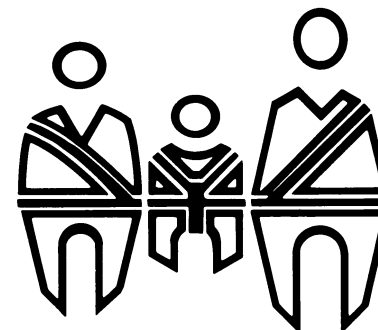
WE REALLY CARE ABOUT YOU - PLEASE BUCKLE UP

Lexus has made a special effort to encourage use of seat belts.

Lexus belts are:

- **Comfortable**
- **Easy to use**
- **Convenient**

We encourage you to use your belts every time you drive.



You should know as much about the quality and importance of proper maintenance of your new vehicle as the people who built it.

The Lexus authorized Repair Manual tells you how to maintain your vehicle and enables you to correctly perform your own maintenance.



The best way to keep your new vehicle in top running order is to maintain it properly from the moment you drive it off the showroom floor.

The Lexus authorized Repair Manual is packed with literally everything you need to know to perform your own maintenance in virtually every area of your new vehicle.

Hybrid vehicles contain high voltage parts and cables that are extremely dangerous and may cause severe injury or even death if handled improperly. Only technicians who have participated in technical training for the inspection and servicing of high voltage systems are qualified to do maintenance work on components related to the vehicle's hybrid system. For repair of your hybrid system, visit your Lexus dealer or other qualified technicians.

Maintenance procedures for the engine, chassis, body, electrical system, and more, are clearly explained and illustrated.

Periodic maintenance and tune-up

Periodic maintenance and tune-up helps to prevent small problems from growing into larger ones later on. The repair manual outlines exactly what maintenance is required and clearly explains how to do the work yourself step-by-step.

Areas covered include such things as spark plug replacement, valve clearance adjustment and engine oil and filter replacement.

**Where to obtain the
Repair Manual**

The repair manual for RX400h may be purchased from any Lexus dealer or the Material Distribution Center. To purchase the repair manual, please contact your Lexus dealer or call the Material Distribution Center toll-free at 1-800-622-2033.

FOREWORD

Congratulations on your selection of this Lexus. In Lexus vehicles we have invested all our engineering and design resources; all the know-how we have gained in over 60 years of making automobiles; the highest motivation of our most talented employees; and our tradition of incessant striving toward ever greater quality.

This Owner's Manual explains the features of your new Lexus. Please read it and follow the instructions carefully so that you can enjoy many years of safe motoring.

When it comes to service, remember that your Lexus dealer knows your vehicle very well and is interested in your complete satisfaction. Your Lexus dealer will provide quality maintenance and any other assistance you may require.

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

U.S. OWNERS

If you need emergency assistance for any reason, please call the following number.

- When traveling in the U.S. mainland or Canada:
Lexus Roadside Assistance **Toll-free: 1-800-25-LEXUS or 1-800-255-3987**
- Hawaii:
Servco Automotive Roadside Assistance/Customer Services **Toll-free: 1-800-25-LEXUS or 1-800-255-3987**

CANADIAN OWNERS

- When traveling in Canada or the U.S. mainland:
Lexus Roadside Assistance/Customer Service **Toll-free: 1-800-26-LEXUS or 1-800-265-3987**

Please leave this Owner's Manual in this vehicle at the time of resale. The next owner will need this information also.

All information and specifications 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.

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.

Please access our websites for further information.

- The U.S. mainland **www.lexus.com**
- Hawaii **www.servcolexus.com**
- Canada **www.lexus.ca**

TOYOTA MOTOR CORPORATION

IMPORTANT INFORMATION ABOUT THIS MANUAL

IMPORTANT INFORMATION ABOUT THIS MANUAL

Safety and vehicle damage warnings

In this manual you will see CAUTION and NOTICE warnings. These are used in the following ways:



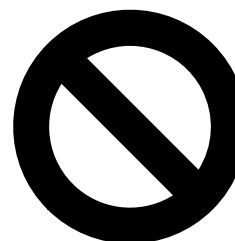
CAUTION

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

NOTICE

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

Safety symbol



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

IMPORTANT INFORMATION ABOUT YOUR LEXUS

Hybrid system on your vehicle

Your vehicle is a hybrid vehicle. It has characteristics different from other conventional vehicles. You must understand the characteristics of your vehicle very well and handle it carefully. Read this manual and follow the instructions. "HYBRID VEHICLE OVERVIEW" on pages 1 to 14 explains the characteristics of the hybrid system.

Occupant restraint systems

Lexus encourages you and your family to take the time to read Section 1–6 of this Owner's Manual carefully. In terms of helping you understand how you can receive the maximum benefit of the occupant restraint systems this vehicle provides, Section 1–6 of this Owner's Manual is the most important Section for you and your family to read.

Section 1–6 describes the function and operation concerning seats, seat belts, SRS airbags and child restraint systems of this vehicle and some potential hazards you should be aware of. These systems work together along with the overall structure of this vehicle in order to provide occupant restraint in the event of a crash. The effect of each system is enhanced when it is used properly and together with other systems. No single occupant restraint system can, by itself, provide you or your family with the equal level of restraint which these systems can provide when used together. That is why it is important for you and your family to understand the purpose and proper use of each of these systems and how they relate to each other.

The purpose of all occupant restraint systems is to help reduce the possibility of death or serious injury in the event of a collision. None of these systems, either individually or together, can ensure that there is no injury in the event of collision. However, the more you know about these systems and how to use them properly, the greater your chances become of surviving an accident without death or serious injury.

Seat belts provide the primary restraint to all occupants of the vehicle, and every occupant of the vehicle should wear seat belts properly at all times. Children should always be secured in child restraint systems that are appropriate for their age and size. SRS (Supplemental Restraint System) airbags are, as their names imply, designed to work with, and be supplemental to, seat belts and are not substitutes for them. SRS airbags can be very effective in reducing the risk of head, chest and knee injuries by preventing contact of the head, chest and knee with interior portions of the vehicle.

IMPORTANT INFORMATION ABOUT YOUR LEXUS

In order to be effective, the SRS airbags must deploy with tremendous speed. The rapid deployment of the SRS airbags makes the SRS airbags themselves potential sources of serious injury if an occupant is too close to an airbag, or if an object or some part of his or her body has been placed between the occupant and the airbag at the time of deployment. This is just one example of how the instructions in Section 1–6 of this Owner's Manual will help ensure proper use of the occupant restraint systems, and increase the safety they can provide to you and your family in the event of an accident.

Lexus recommends you to read the provisions in Section 1–6 carefully and refer to them as needed during your time of ownership of this vehicle.

Event data recorder

Your vehicle has computers that monitor and control certain aspects of your vehicle. These computers assist in driving and maintaining optimal vehicle performance. Besides storing data useful for troubleshooting, there is a system to record data in a crash or a near car crash event. This is called an Event Data Recorder (EDR).

The SRS airbag sensor assembly contains the EDR. In a crash or a near car crash event, this device may record some or all of the following information:

- Gasoline engine speed
- Whether the brake pedal was applied or not
- Vehicle speed
- To what extent the accelerator pedal was depressed
- Position of the transmission selector lever

- Whether the driver and front passenger wore the seat belts or not
- Driver's seat position
- Front passenger's occupant classification
- SRS airbag deployment data
- SRS airbag system diagnostic data

The Electronic Control Unit (ECU) of the electronically controlled brake (ECB) may contain another EDR. There are a variety of driving situations which include activating the ECB under which the ECB EDR will record certain information. The ECB EDR may record some or all of the following information:

- Behavior of the vehicle
- Steering wheel angle
- Vehicle speed
- To what extent the accelerator pedal was depressed
- To what extent the brake pedal was applied
- To what extent the ECU controlled the condition of the 4 wheels
- Vehicle stability control diagnostic data

The information above is intended to be used for the purpose of improving vehicle safety performance. Unlike general data recorders, the EDR does not record sound data such as conversation between passengers.

IMPORTANT INFORMATION ABOUT YOUR LEXUS

Lexus will not disclose the data recorded in an EDR to a third party except when:

- An agreement from the vehicle's owner (or the leasing company for a leased vehicle) is obtained
- Officially requested by the police or other authorities
- Used as a defense for Lexus in a law suit
- Ordered by the court

However, if necessary Lexus will:

- Use the data for research on Lexus vehicle safety performance
- Disclose the data to a third party for research purposes without disclosing details of the vehicle owner, and only when it is deemed necessary
- Disclose summarized data cleared of vehicle identification information to a non-Lexus organization for research purposes

New vehicle warranty

Your new vehicle is covered by the following Lexus limited warranties:

- New vehicle warranty
- Emission control systems warranty
- Others

For further information, please refer to the "Owner's Guide", "Owner's Manual Supplement" or "Warranty Booklet".

Your responsibility for maintenance

It is the owner's responsibility to make sure the specified maintenance is performed. Section 5 of this Owner's Manual gives details of these maintenance requirements. Included in Section 6 is general maintenance. For scheduled maintenance information, please refer to the "Owner's Manual Supplement / Scheduled Maintenance".

IMPORTANT INFORMATION ABOUT YOUR LEXUS

Important health and safety information about your Lexus

 **CAUTION**

- **WARNING:** 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. In addition, 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.
- **Battery*** posts, terminals and related accessories contain lead and lead compounds. Wash your hands after handling. Used engine oil contains chemicals that have caused cancer in laboratory animals. Always protect your skin by washing thoroughly with soap and water.

*: The auxiliary battery for the hybrid vehicle

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.

Spark ignition system of your Lexus

The spark ignition system in your Lexus meets all requirements of the Canadian Interference-Causing Equipment Standard.

IMPORTANT INFORMATION ABOUT YOUR LEXUS

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 hybrid system, multiport fuel injection system/sequential multiport fuel injection system, cruise control system, vehicle dynamics management, 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 shieldings.

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

Tires and loading on your Lexus

Underinflated or overinflated tire pressure and the excess load may result in the deterioration of steering ability and braking ability, leading to an accident. Check the tire inflation pressure periodically and be sure to keep the load limits given in this Owner's Manual. For details about tire inflation pressure and load limits, see pages 556 and 475.

On-pavement and off-road driving tips

This vehicle belongs to the utility vehicle class. Utility vehicles have a significantly higher rollover rate than other types of vehicles. This vehicle will handle and maneuver differently from an ordinary passenger car. In addition, this vehicle has a higher ground clearance and center of gravity than that of an ordinary passenger car. This vehicle design feature causes this type of vehicle to be more likely to rollover. Failure to operate this vehicle correctly may result in loss of control, accidents or vehicle rollover causing death or serious injury. Be sure to read "Utility vehicle precautions" on page 456 and "Off-road driving precautions" on page 460.

Leak detection pump

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

Traction battery

The traction battery has a limited service life. Call your Lexus dealer or a qualified service shop for information about recycling or disposal of the battery.

IMPORTANT INFORMATION ABOUT YOUR LEXUS

Scrapping of your Lexus

CAUTION

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

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 system 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.

High voltage cautions

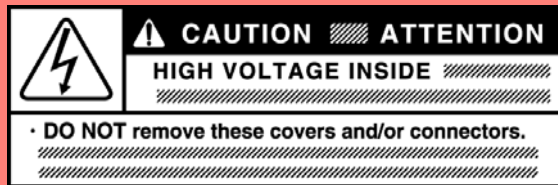
CAUTION

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

- Never touch, disassemble, remove or replace the high voltage parts, cables and their connectors. High voltage parts and cables are indicated in the illustration on page 8. Touching, disassembling, removing or replacing those parts and cables can cause severe burns or electric shock that may result in death or serious injury.
- Never try to open the service plug access hole located on the left-hand side of the rear seat base. The service plug is used only when the vehicle is serviced and is subject to high voltage. Touching the service plug can cause severe burns or electric shock that may result in death or serious injury.

IMPORTANT INFORMATION ABOUT YOUR LEXUS

- The hybrid system uses high voltage up to 650 V. The system can be hot while and after starting. Be careful of both the high voltage and the high temperature. Obey the caution labels attached to the vehicle.



► *Caution label*

Road accident cautions

CAUTION

- Pull your vehicle off the road, put the transmission in the “P” position, apply the parking brake, turn the hybrid system off and remove the key.
- In order to avoid personal injuries, do not touch high voltage wiring, connectors and high voltage parts (inverter unit, traction battery and etc.).
- If exposed electric wires are protruding inside or outside of your vehicle, an electric shock may occur. Never touch the electric wires.
- If fluid leaks or gets into some parts of the vehicle, never touch it because it may be strong alkaline electrolyte from the traction battery. If it contacts your skin or eyes, wash it off immediately with a large amount of water or if possible, boric acid solution. Get immediate medical attention in order to help avoid serious injury.
- 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 use on electric fires. Using a small amount of water may be also dangerous.

IMPORTANT INFORMATION ABOUT YOUR LEXUS

- If your vehicle needs to be towed, do it with the front wheels raised (front wheel drive models) or all four wheels raised (all wheel drive models). If the wheels with the traction motor are on the ground when towing, the motor may continue to generate electricity. This may cause the electricity leakage. Depending on the severity of the damage, electricity leakage may cause fire. See “If your vehicle needs to be towed” on page 499.

HOW TO USE THIS MANUAL

The contents of this manual are explained briefly on this page to help you make the best use of the manual. Please read this page and the rest of the Owner's Manual carefully to make sure you fully understand the operation of your vehicle.

This will help you enjoy safe and comfortable driving.

TABLE OF CONTENTS

The table of contents and the pictorial index provide easy reference to the appropriate pages.

BASIC OPERATION

— HYBRID VEHICLE OVERVIEW

The overview of Toyota hybrid system and precautions that must be taken are described in detail.

— QUICK REFERENCE

Operation of basic equipment is briefly explained in an easily understandable way for quick reference.

SECTION 1 — INSTRUMENTS AND CONTROLS

The vehicle's equipment is divided into the 7 groups listed below. Use of the equipment is explained, including any points you should pay particular attention to.

1. Keys and doors
2. Switches
3. Gauges, meters and service reminder indicators
4. Interior equipment
5. Exterior equipment
6. Occupant restraint systems
7. Steering wheel and mirrors

SECTION 2 — AIR CONDITIONING AND AUDIO

The features of the vehicle's air conditioning and audio are explained in detail. Be sure to read this Section so that you can make full use of them.

SECTION 3 — STARTING AND DRIVING

Starting the hybrid system, driving, stopping, operation of features affecting vehicle handling, hints on vehicle safety and safe driving techniques are all explained. Please read everything in this Section, and remember — drive safely!

HOW TO USE THIS MANUAL

SECTION 4 — IN CASE OF AN EMERGENCY

This Section explains what to do in the event of an urgent situation such as the hybrid system not starting or getting a flat tire, etc. If such a problem occurs, check the contents of this Owner's Manual and follow the instructions given.

SECTION 5 — MAINTENANCE

This Section explains the importance of regular maintenance. Regular and periodic inspection and maintenance of your Lexus will help to keep your vehicle in its best condition.

SECTION 6 — SERVICE PROCEDURES AND SPECIFICATIONS

Simple maintenance procedure and service data are provided here for your reference should you wish to perform inspection and maintenance yourself.

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The page number is listed for each item in the Owner's Manual so that you can rapidly find the item and page you are searching for.

GAS STATION INFORMATION

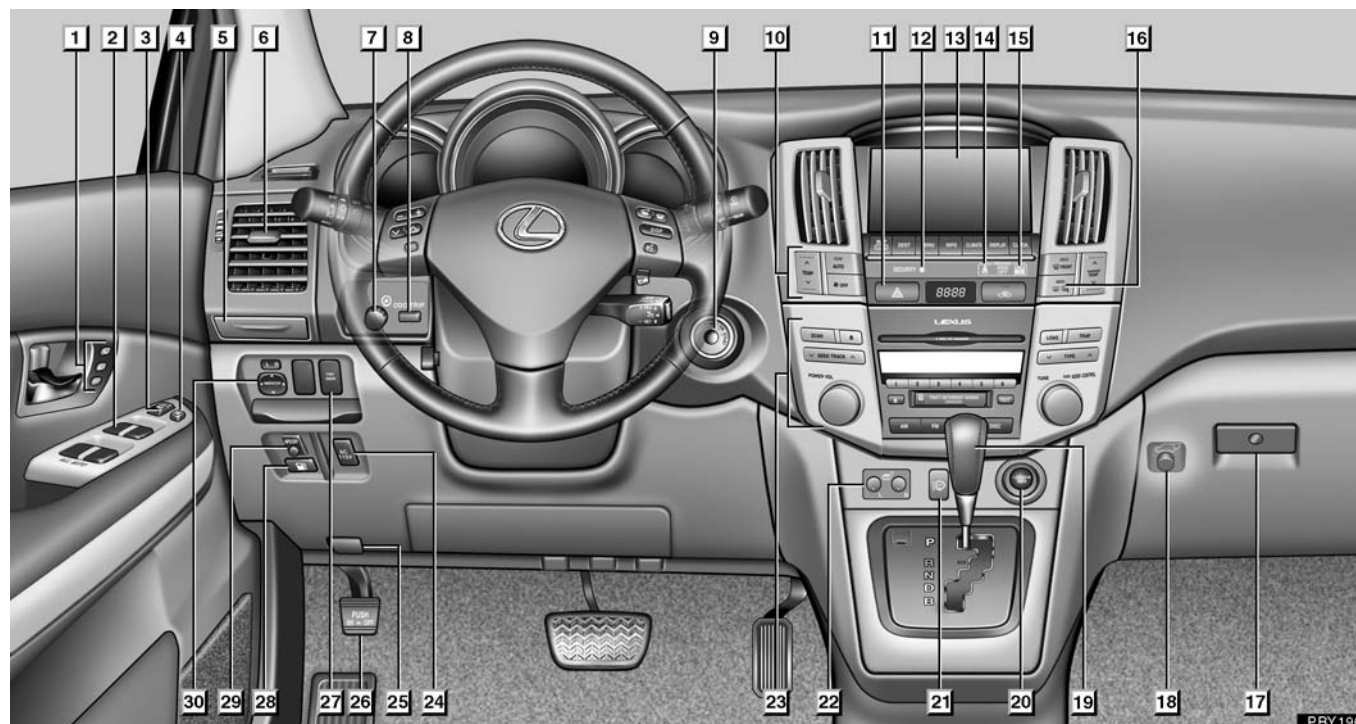
The information you need to know for appropriate servicing at the gas station is provided here.

QUICK INDEX

This is designed so that you can quickly find the needed information when an urgent situation arises.

Your Lexus Owner's Manual provides you with a considerable amount of information. To use this information most effectively, please take the time to familiarize yourself with the contents and use of the manual.

INSTRUMENT PANEL (vehicles with navigation system)

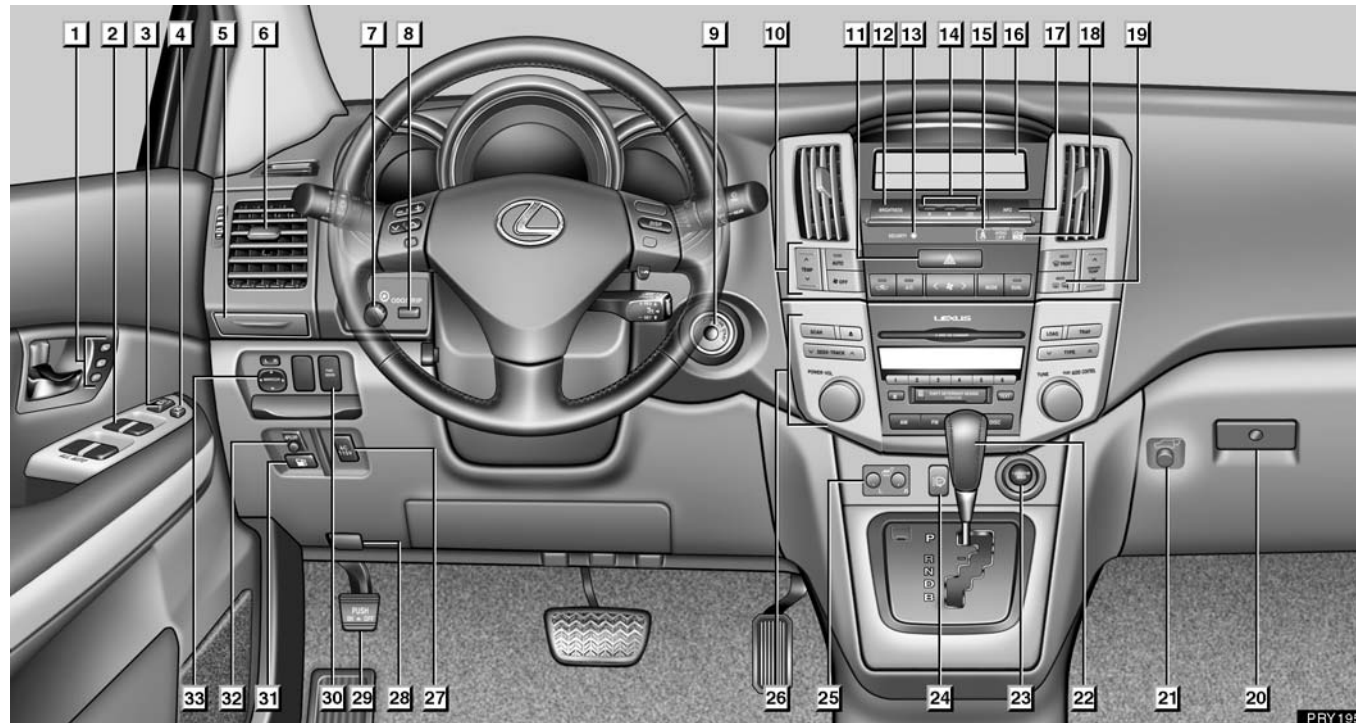


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For detailed information, refer to the description given in each Section.

INSTRUMENT PANEL (vehicles with center display)

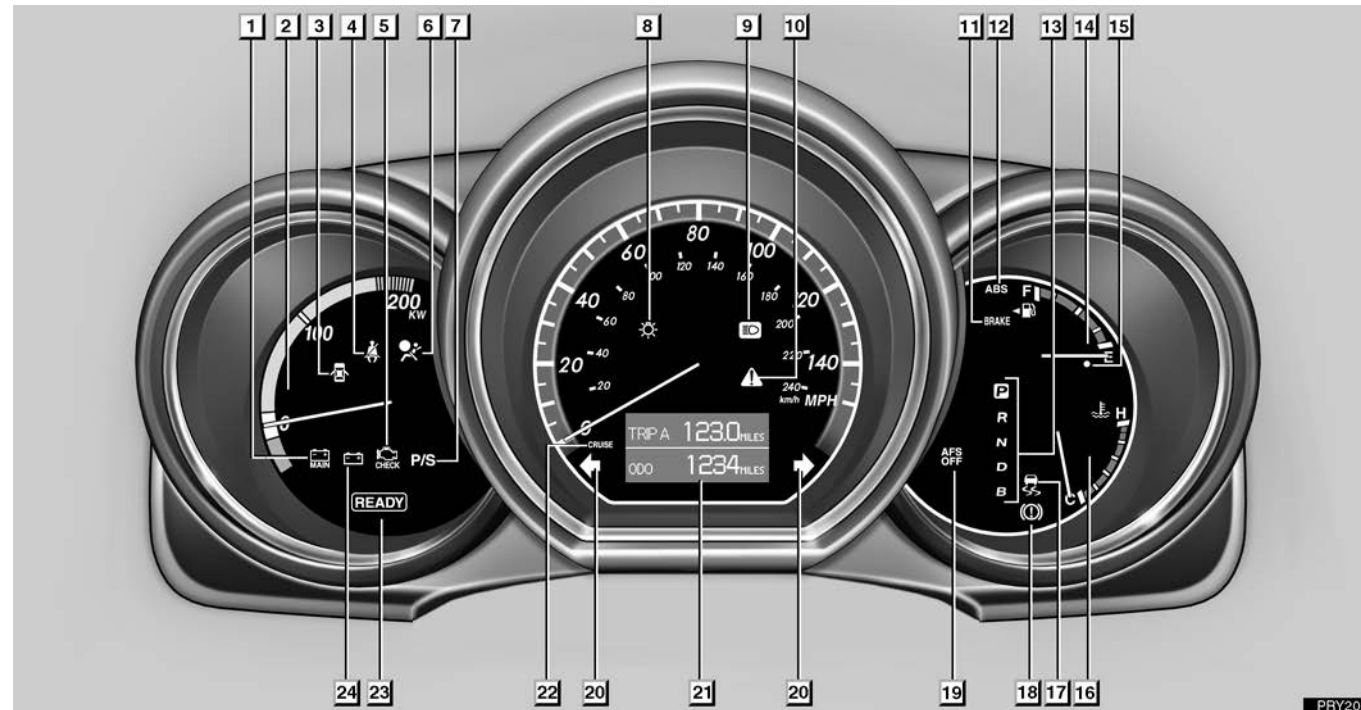


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For detailed information, refer to the description given in each Section.

INSTRUMENT CLUSTER (vehicles sold in U. S. A.)

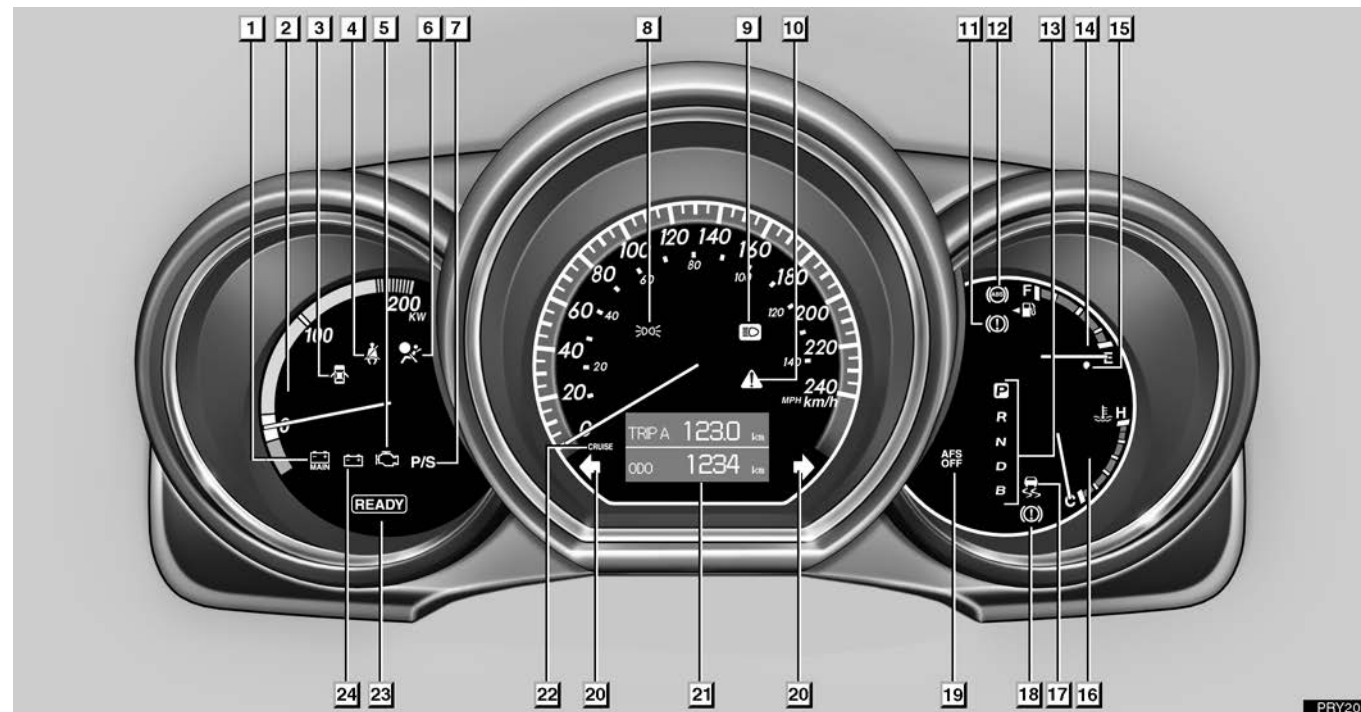


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For detailed information, refer to the description given in each Section.

INSTRUMENT CLUSTER (vehicles sold in Canada)



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For detailed information, refer to the description given in each Section.

FRONT SEAT

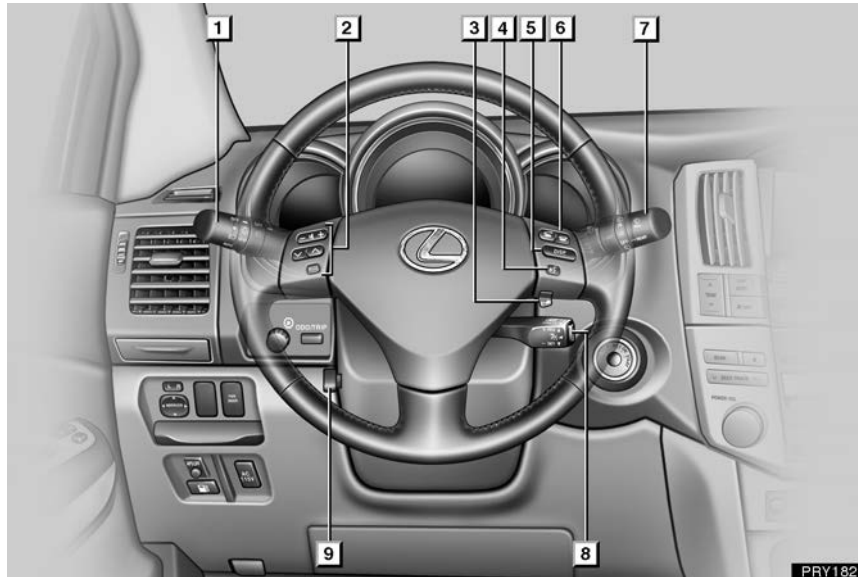


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For detailed information, refer to the description given in each Section.

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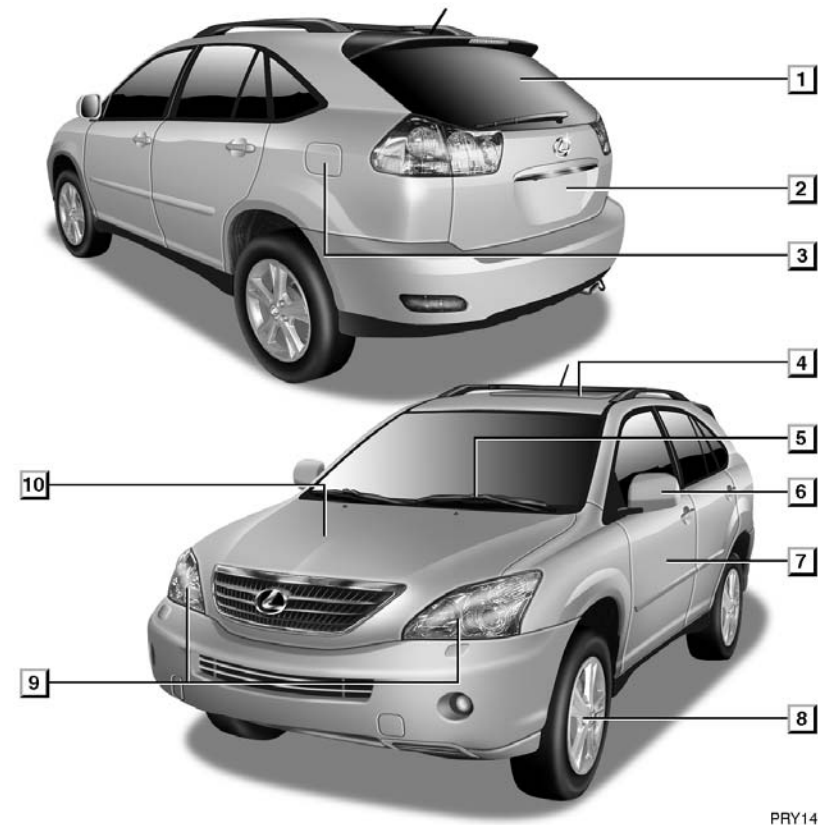
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BASIC OPERATION

HYBRID VEHICLE OVERVIEW

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HYBRID VEHICLE OVERVIEW

TOYOTA HYBRID SYSTEM

Toyota hybrid system combines the power of a gasoline engine and a traction motor to minimize fuel consumption and emissions.

Depending on driving conditions, the vehicle runs optimally on a combination of the gasoline engine and traction motor.

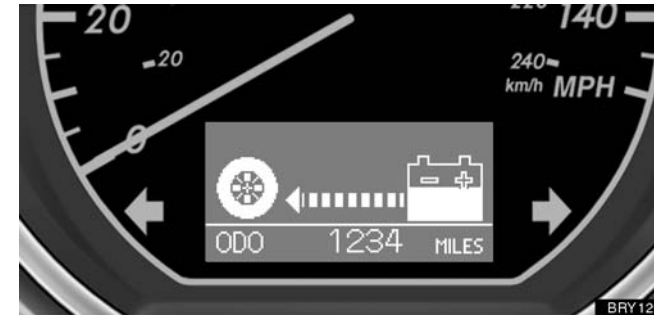
Since the gasoline engine charges the traction battery as needed, the battery does not have to be charged from an outside source like an electric vehicle.

ENERGY MONITOR

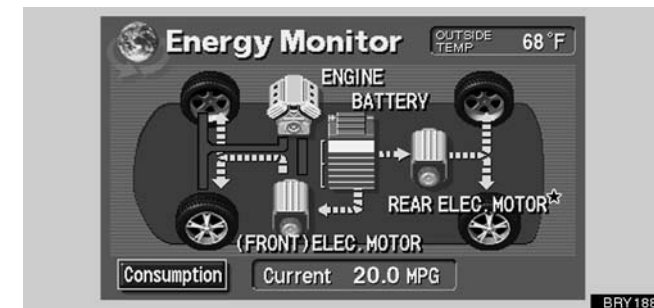
Toyota hybrid system performs various controls depending on the operating condition. The condition appears on the multi-information display and navigation system screen (with navigation system) when the display and screen is in “Energy Monitor” mode. See pages 97 and 114 for the operation of the display and screen.

HYBRID VEHICLE OVERVIEW

These are representative examples of energy monitor displays. Depending on the condition, the energy monitor displays the graphics different from those shown below. Depending on conditions, the graphic does not reflect the actual motion of the vehicle.



► *The multi-information display*

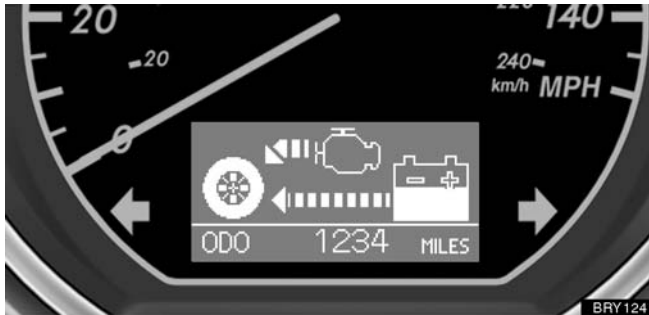


► *The navigation system screen*

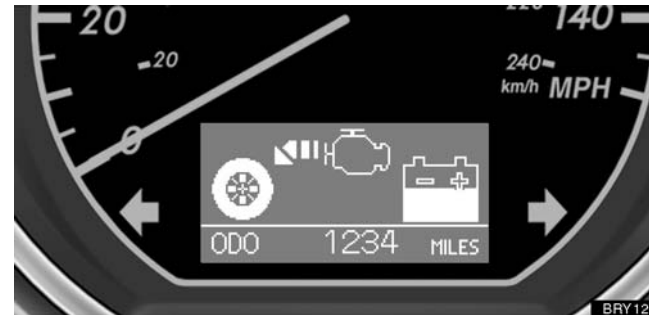
* All wheel drive models only

- When the vehicle is powered by the traction motor.

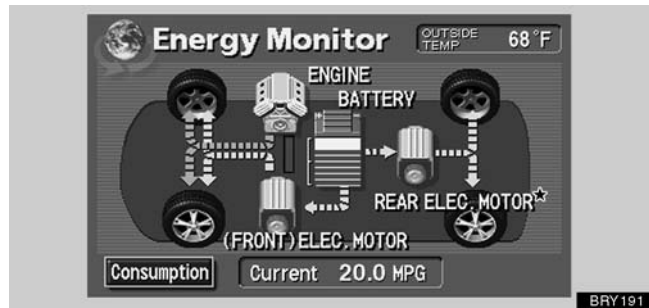
HYBRID VEHICLE OVERVIEW



► The multi-information display



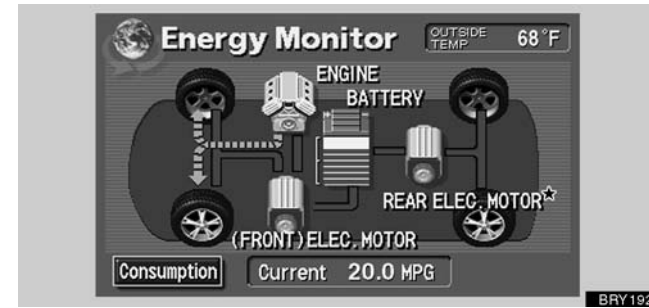
► The multi-information display



► The navigation system screen

* All wheel drive models only

- When the vehicle is powered by both the gasoline engine and the traction motor.

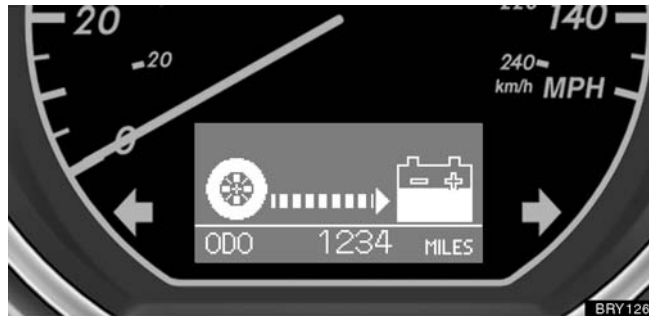


► The navigation system screen

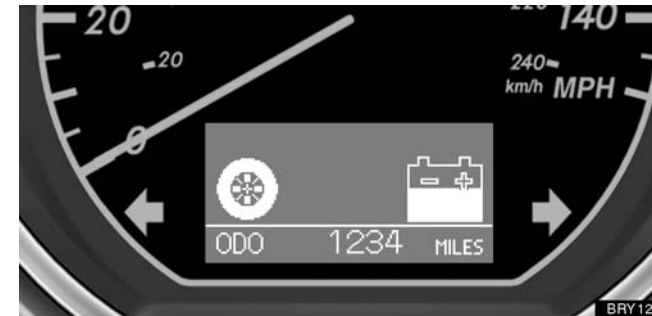
* All wheel drive models only

- When the vehicle is powered by the gasoline engine.

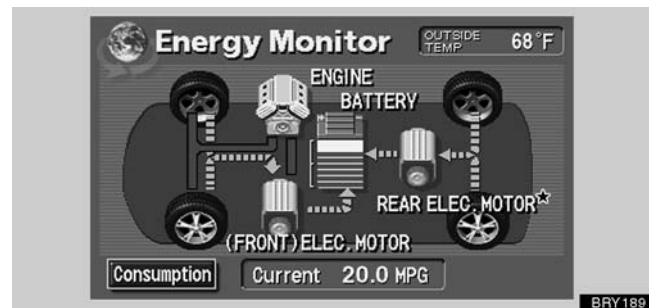
HYBRID VEHICLE OVERVIEW



► The multi-information display



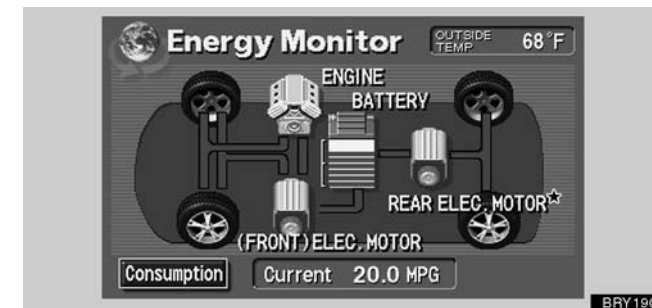
► The multi-information display



► The navigation system screen

* All wheel drive models only

- When the vehicle is regenerating and charging the traction battery.



► The navigation system screen

* All wheel drive models only

- When there is no energy flow.

HYBRID VEHICLE OVERVIEW

Traction battery status

Status	The multi-information display	The navigation system screen
Level 8		
Level 7		
Level 6		
Level 5		
Level 4		
Level 3		
Level 2		
Level 1		

BRY193

STARTING YOUR VEHICLE

The starting procedure is the same as that for conventional vehicles.

Insert the key into the ignition and turn it to the “START” position.

The “READY” light flashes and stays on. A beep sounds after a few seconds, and the hybrid system will start. If the ambient temperature is low, it may take time until the “READY” light comes on. For details, see “How to start the hybrid system” on page 410.

The engine may not start even with the “READY” light on.

FOR EFFICIENT USE OF YOUR VEHICLE

Drive your vehicle with smooth acceleration and deceleration.

- While driving, energy is recovered through the regenerative brake as the vehicle decelerates. However, for efficient use, do not accelerate or decelerate your vehicle more than necessary.
- Avoid abrupt acceleration and deceleration.
- The power of the traction battery can be checked on the multi-information display or the navigation system screen (with navigation system). See "Traction battery status" on page 6 for details. Gradual or non-abrupt acceleration and deceleration will make more effectively use of the traction motor without having to use gasoline engine power.

When parking, be sure to put the transmission into the "P" position. While driving, put the transmission into the "D" position.

- In the "N" position, the gasoline engine operates but electricity cannot be generated. The traction battery will be discharged requiring unnecessary engine power to recharge.
- The hybrid system automatically recharges the traction battery when the remaining battery power is reduced. However, the traction battery cannot be recharged if the transmission is in the "N" position.

INFORMATION

The gasoline engine starts and stops automatically. It may stop during a low load driving, deceleration or when the vehicle is stopped.

As long as the "READY" light remains on, you can start your vehicle using the traction motor even with the gasoline engine stopped.

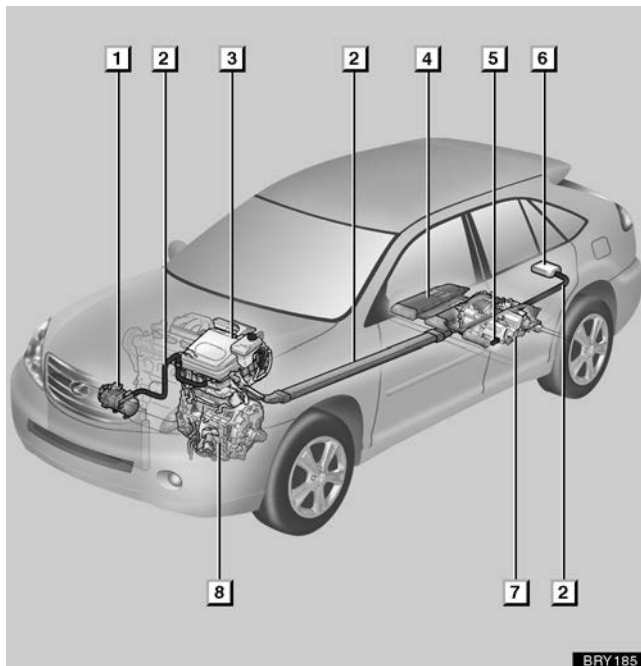
The gasoline engine may not stop automatically in the following conditions:

- ***During gasoline engine warm-up***
- ***During traction battery charging***
- ***During low or high traction battery temperature***

HYBRID VEHICLE OVERVIEW

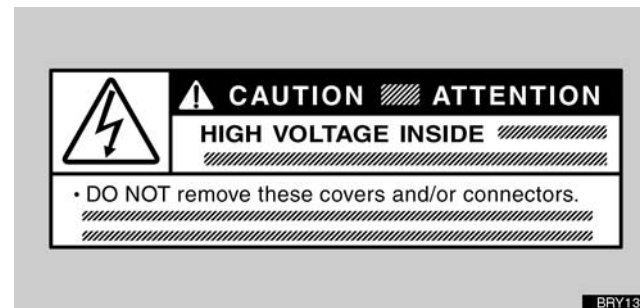
PRECAUTIONS FOR THE USE OF HYBRID VEHICLE

High voltage components



- 1 Air conditioning compressor
- 2 High voltage cables
- 3 Inverter unit
- 4 Traction battery
- 5 Service plug
- 6 DC/DC converter
- 7 Rear traction motor (all wheel drive models only)
- 8 Front traction motor

The hybrid system uses high voltage up to 650 V. High voltage components are indicated in the illustration above. High voltage cables are orange. The system can be hot while and after starting. Be careful of both the high voltage and the high temperature.



► Caution label

CAUTION

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

- Never touch, disassemble, remove or replace the high voltage parts, cables and their connectors. High voltage parts and cables are indicated in the illustration above. Touching, disassembling, removing or replacing those parts and cables can cause severe burns or electric shock that may result in death or serious injury.
- The hybrid system uses high voltage and the system can be hot while and after starting. Be careful of both the high voltage and the high temperature. Obey the caution labels attached to the vehicle.
- Never try to open the service plug access hole located on the left-hand side of the rear seat base. The service plug is used only when the vehicle is serviced and is subject to high voltage. Touching the service plug can cause severe burns or electric shock that may result in death or serious injury.

The characteristics of the hybrid vehicle

Be sure to put the transmission in the “P” position when parking.

In the “N” position, the traction battery does not recharge, even if the gasoline engine is operating. Leaving the transmission in the “N” position for an extended period of time may discharge the traction battery. The vehicle cannot run if the traction battery is discharged.

When you leave your vehicle, apply the parking brake, put the transmission in the “P” position, be sure to carry the key with you and lock all the doors.

If you leave the ignition in “ACC” or “ON”, the auxiliary battery will be discharged and the hybrid system may not start.

HYBRID VEHICLE OVERVIEW

- Because the vehicle is powered by both the gasoline engine and the traction motor, you may hear a motor sound coming from the engine compartment and rear of the vehicle (all wheel drive models). However, this does not indicate any trouble.
- When the hybrid system is started or stopped, you may hear a sound coming from the traction battery under the rear seats. However, this does not indicate any trouble.
- When the hybrid system is started or stopped, or while the vehicle is idling, you may hear a sound coming from the transmission. However, this does not indicate any trouble.
- When accelerating rapidly, the engine noise may rise. However, this does not indicate any trouble.
- Repeated acceleration consumes traction battery power, resulting in poor acceleration. Battery power can be restored by driving with the accelerator pedal slightly released.
- When applying brakes, you may hear a sound coming from the regenerative brakes. However, this does not indicate any trouble.
- When the gasoline engine is started or stopped with the hybrid system on, you may feel a vibration. However, this does not indicate any trouble.
- If the "READY" light is on, you can start even when the gasoline engine is stopped.

- When you put the transmission in the "B" position and take your foot off the accelerator pedal, engine braking will be applied. However, during high speed driving you may feel that engine braking is less effective than that of ordinary vehicle.

- **If the vehicle is parked for a long time, the traction battery will discharge gradually. To keep the traction battery in good condition, drive the vehicle at least once every several months for at least 30 minutes or ten miles. If the traction battery becomes fully discharged and the vehicle will not start even with a jump-start to the auxiliary battery, contact your Lexus dealership.**

- **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 shieldings.**

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

- **After the auxiliary battery is disconnected, run down, or replaced, the gasoline engine may not stop even while the vehicle is powered only by the traction motor. If this condition continues for several days, take the vehicle to your Lexus dealer.**

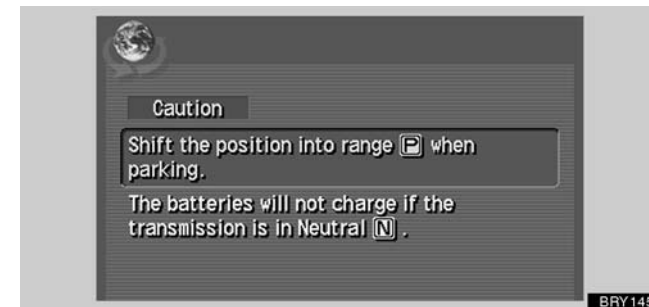
HYBRID VEHICLE OVERVIEW

CAUTION

- The driver should pay special attention to pedestrians when the vehicle is powered only by the traction motor. Because there is no engine noise, the pedestrians may misjudge the vehicle's movement.
- When you leave your vehicle, be sure to turn off the hybrid system.
- Be sure to put the transmission in the "P" position because the vehicle can move when the "READY" light is on even if the engine is stopped. When the "READY" light is on, do not leave your vehicle in a shift position other than the "P" and "N" positions. The vehicle will creep and start abruptly if the accelerator pedal is depressed by mistake. This may cause death or serious injury.



► The multi-information display



► The navigation system screen

HYBRID VEHICLE OVERVIEW

If you open the door with the hybrid system turned on and the transmission is not in the “P” position, a message appears on the multi-information display and navigation system screen (for vehicles with navigation system).

- When you leave your vehicle, or stop or park for a while, put the transmission in the “P” position.
- Charging the traction battery while driving is important. In the “N” position, the traction battery will not be charged. Do not leave the transmission in the “N” position. The motor generator operates in the “P”, “R”, “D” and “B” positions. When you drive, put the transmission in the “D” or “B” position and depress the accelerator pedal. When driving in a traffic jam, operate the vehicle in the “D” position to prevent the traction battery from being discharged.



► **Traction battery air vents**

Air vents are located under the rear seats to cool the traction battery. If the vents are covered, the battery will overheat resulting in reduced output performance of the hybrid system.

You may hear the noise of the cooling fans from the air vents.

For vehicle repairs or maintenance, be sure to consult your Lexus dealer.

If your vehicle is beyond repair, contact your Lexus dealer for assistance. Do not attempt to dispose of your vehicle by yourself.

 CAUTION

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.

NOTICE

- *Do not put foreign objects over the air vent. The traction battery may be overheated and damaged.*
- *Clean the air vent regularly to prevent the traction battery from overheating.*
- *Do not wet the air vent. It may cause the short circuit and damages the traction battery.*
- *Do not load a large amount of water such as an aquarium into the vehicle. If water spills over the traction battery, the battery may be damaged.*

ROAD ACCIDENT CAUTIONS

 CAUTION

- Pull your vehicle off the road, put the transmission in the “P” position, apply the parking brake, turn the hybrid system off and remove the key.
- In order to avoid personal injuries, do not touch high voltage wiring, connectors and high voltage parts (inverter unit, traction battery and etc.).
- If exposed electric wires are protruding inside or outside of your vehicle, an electric shock may occur. Never touch the electric wires.
- If fluid leaks or gets into some parts of the vehicle, never touch it because it may be strong alkaline electrolyte from the traction battery. If it contacts your skin or eyes, wash it off immediately with a large amount of water or if possible, boric acid solution. Get immediate medical attention in order to help avoid serious injury.
- 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 a small amount of water may be also dangerous.

HYBRID VEHICLE OVERVIEW

- If your vehicle needs to be towed, do it with the front wheels raised (front wheel drive models) or all four wheels raised (all wheel drive models). If the wheels with the traction motor are on the ground when towing, the motor may continue to generate electricity. This may cause the electricity leakage. Depending on the severity of the damage, electricity leakage may cause fire. See “If your vehicle needs to be towed” on page 499.

Emergency shut off system

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

CAUTION

- Check to see if there are exposed high voltage parts and cables. Never touch the parts and cables. See “High voltage components” on page 8 for the locations of the high voltage parts and cables.
- 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.

BASIC OPERATION

QUICK REFERENCE

Quick reference

Driver's seat	16
Steering wheel (tilt type)	16
Steering wheel (tilt and telescopic type)	17
Ignition switch	18
Parking brake	18
Transmission	19
Headlight and turn signal switch	21
Wiper and washer switch	22

QUICK REFERENCE

1. DRIVER'S SEAT



	Seat position		
	Seat cushion angle		
	Seat cushion height		
	Seatback angle		
	Lumbar support		
	Head restraint height		
	Head restraint angle		

BRY069

2. STEERING WHEEL (tilt type)

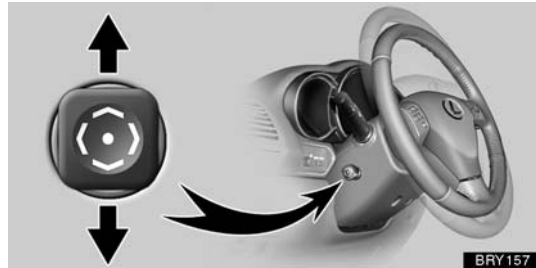


To tilt the steering wheel up or down to the desired angle:

1. Pull the lever up while holding the steering wheel.
2. Tilt the steering wheel to the desired angle.
3. Release the lever.

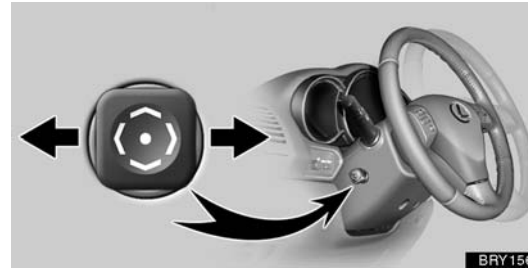
2. STEERING WHEEL (tilt and telescopic type)

• TILT OPERATION



To tilt the steering wheel up or down to the desired angle, push the control switch in the required direction and release the button when the steering wheel reaches the desired angle.

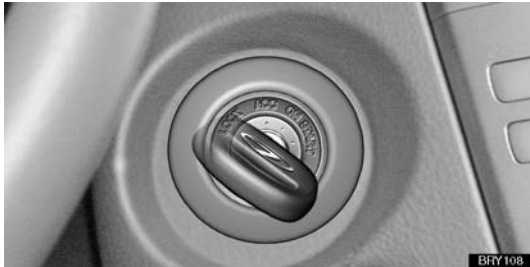
• TELESCOPIC OPERATION



To move the steering wheel to the desired position, push the control switch away from you or pull it toward you until the steering wheel reaches the desired position.

QUICK REFERENCE

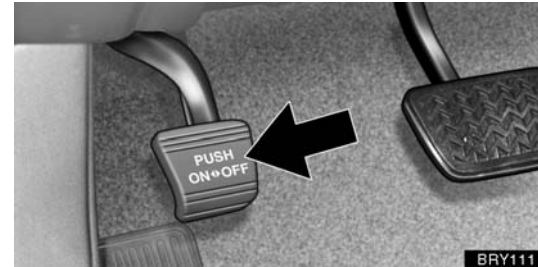
3. IGNITION SWITCH



IGNITION SWITCH POSITION

- LOCK:** The hybrid system is off and the steering wheel is locked. The ignition key can be removed only when it is in this position.
- ACC:** The accessories such as the radio operate, but the hybrid system is off.
- ON:** The hybrid system and all the accessories are on.
- START:** The hybrid system starts. The key returns to the "ON" position when released.

4. PARKING BRAKE



To set: Hold the regular brake pedal down with your right foot. Push down the parking brake pedal with your left foot.

To release: Hold the regular brake pedal down with your right foot and push the parking brake pedal with your left foot. When you lift your left foot, the parking brake pedal will follow it to the released position.

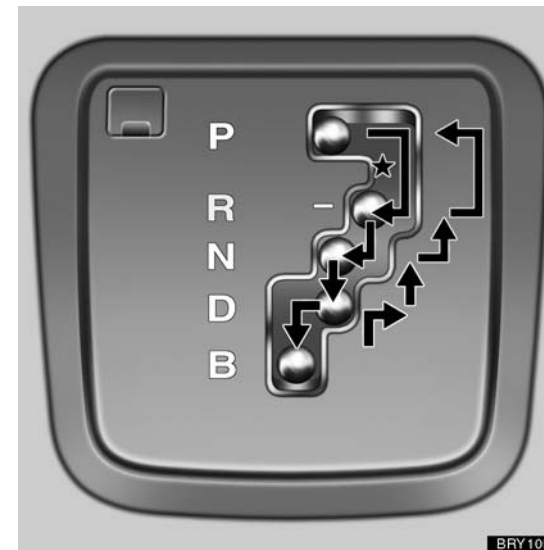
5. TRANSMISSION



SELECTOR LEVER POSITION

- P:** Parking, hybrid system starting and key removal position
- R:** Reverse position
- N:** Neutral position
- D:** Normal driving position
- B:** Position for engine braking

OPERATION OF SELECTOR LEVER



- ★ Shift while pressing the brake pedal.
(Ignition switch must be in the "ON" position.)

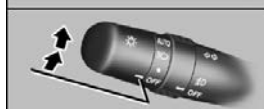
QUICK REFERENCE

NOTE:

When the cruise control is being used, the vehicle will not decelerate even if you downshift from “D” to “B”. The cruise control must first be cancelled. For vehicle speed reduction, see page 420 (with cruise control) or pages 431 and 441 (with dynamic laser cruise control).

6. HEADLIGHT AND TURN SIGNAL SWITCH

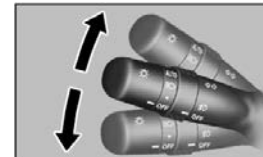
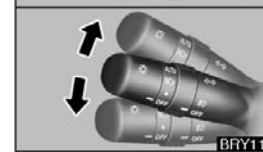
• HEADLIGHT SWITCH

	Parking, tail, license plate, side marker and instrument panel lights turn on.
	Headlights also turn on.
	Automatic light control

• HEADLIGHT DIMMER SWITCH

	High beam
	Headlight flasher

• TURN SIGNAL SWITCH

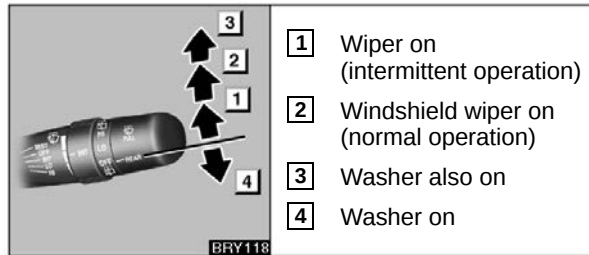
	Right or left turn
	Lane change (right or left)

7. WIPER AND WASHER SWITCH

● Front (Variable intermittent windshield wipers)	
	Mist operation
	Variable intermittent operation
	Low speed operation
	High speed operation
	Washer on

● Front (Rain-sensing windshield wipers)	
	Mist operation
	Automatic operation
	Low speed operation
	High speed operation
	Washer on

● Rear



SECTION 1 - 1

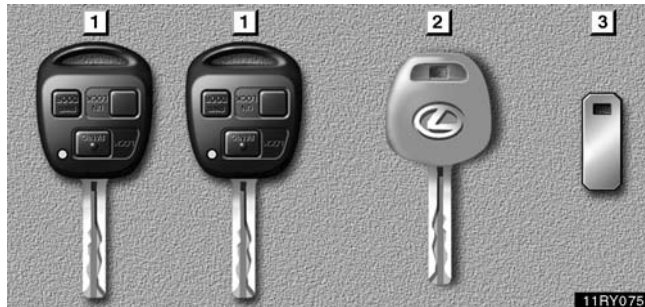
INSTRUMENTS AND CONTROLS

Keys and doors

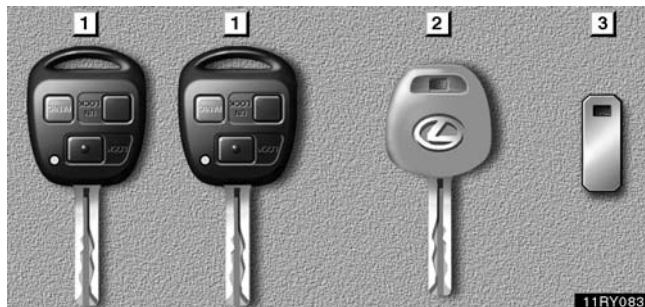
Keys	26
Engine immobilizer system	30
Wireless remote control	32
Side doors	41
Back door	46
Power back door	49
Theft deterrent system	57

KEYS AND DOORS

KEYS



► Vehicles with power back door system



► Vehicles without power back door system

- 1 Master keys (black) — These keys work in every lock. For your Lexus dealer to make a new key with a built-in transponder chip, your dealer will need one of them.
- 2 Valet key (gray) — This key will not open the glove box.
- 3 Key number plate — Keep the plate in a safe place such as your wallet, not in the vehicle.

A transponder chip for the engine immobilizer system has been placed in the head of the master and valet keys. These chips are required for the system to function correctly, so be careful not to lose these keys. If you make your own duplicate key, you will not be able to cancel the system or start the hybrid system.

To protect items locked in the glove box when using valet parking, leave the valet key with the attendant.

Since the side doors and back door can be locked without a key, you should always carry a spare master key in case you accidentally lock your keys inside the vehicle.

If you should lose your keys or if you need additional keys, duplicates can be made by a Lexus dealer using the key number.

We recommend writing down the key number and storing it in a safe place.

Flat key



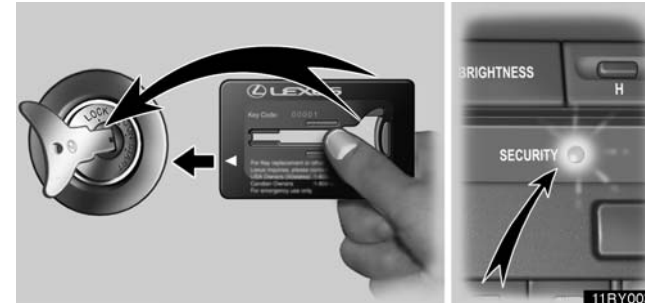
As a transponder chip is built in its key case, you can start the hybrid system with this key.

The flat key works in every lock.

A transponder chip for the engine immobilizer system has been placed in the key case of the flat key. This chip is needed to enable the system to function correctly, so be careful not to lose this key. If you make your own duplicate key, you will not be able to cancel the system or start the hybrid system.

Insert your flat key plate in its key case as shown. We recommend that you always carry this with you for emergency use. Do not leave it in your vehicle.

Starting the hybrid system using a flat key



1. Remove the key plate from the key case.
2. Insert the key plate into the ignition switch. The indicator light keeps flashing.
3. Bring the key case closer to the ignition switch within 10 seconds as indicated by the arrow head. The indicator light goes out. This means the engine immobilizer system is automatically canceled. (For details, see "Engine immobilizer system" on page 30.) You can put the key case away then. You cannot cancel the engine immobilizer system if 10 seconds have past after you inserted the key plate. You need to remove the key plate from the ignition switch and try it again from the step 2.

KEYS AND DOORS

4. Start the hybrid system within 60 seconds after the security indicator light goes out. You cannot start the system if 60 seconds have past after the security indicator went off. You need to remove the key plate from the ignition switch and try it again from the step 2.

NOTICE

- *Do not let the key case become bent as the key plate may fall out or become bent also.*
- *The flat key is designed for emergency use only. So do not use it regularly instead of other master keys.*



When using a key containing a transponder chip, observe the following precautions:

- *When starting the hybrid system, do not use the key with a key ring resting on the key grip and do not press the key ring against the key grip. Doing so may prevent the system from starting, or may cause the system to stop soon after it starts.*

KEYS AND DOORS



- *When starting the hybrid system, do not use the key in proximity with other transponder keys (including the flat key and keys of other vehicles), and do not press other key plates against the key grip. Doing so may prevent the system from starting, or may cause the system to stop soon after it starts. If this happens, remove the key once and then insert it again after removing other transponder keys (including the flat key and keys of other vehicles) from the ring or while gripping or covering them with your hand to start the system.*



- *Do not bend the key grip or flat key.*
- *Do not cover the key grip or flat key with any material that cuts off electromagnetic waves.*
- *Do not knock the key or flat key hard against other objects.*
- *Do not leave the key or flat key exposed to high temperatures for a long period, such as on the dashboard or hood under direct sunlight.*
- *Do not put the key or flat key in water or wash it in an ultrasonic washer.*
- *Do not use the key or flat key with electromagnetic materials.*

KEYS AND DOORS

ENGINE IMMOBILIZER SYSTEM



The engine immobilizer system is a theft prevention system. When you insert the key in the ignition switch, the transponder chip in the key's head transmits an electronic code to the vehicle. The hybrid system will start only when the electronic code in the chip corresponds to the registered ID code for the vehicle.

The system is automatically set when the key is removed from the ignition switch. At this time, the security indicator light flashes. When you insert the key in the ignition switch, the security indicator light goes out and the system is canceled automatically, which enables the hybrid system to start.

The transponder chip of the flat key is in its key case. You can cancel the engine immobilizer system using the flat key. (For details, see "Flat key" on page 27.)

For your Lexus dealer to make you a new key with built-in transponder chip, your dealer will need your key number and master key or the flat key. However, there is a limit to the number of additional keys your Lexus dealer can make for you.

If you make your own duplicate key, you will not be able to cancel the system or start the hybrid system.

KEYS AND DOORS

For vehicles sold in U.S.A.

**FCC ID: MOZRI-20BTY
MADE IN JAPAN**

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.



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

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

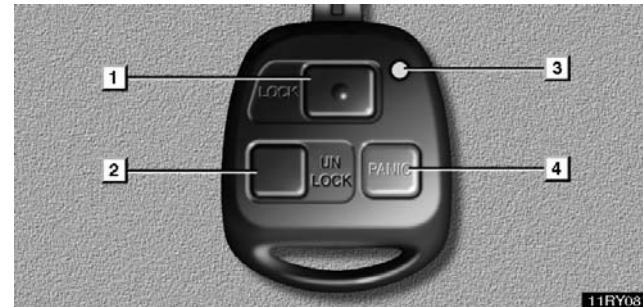
KEYS AND DOORS

WIRELESS REMOTE CONTROL*



► Vehicles with power back door system

- 1 Locking the doors and sounding an alarm
- 2 Unlocking the doors
- 3 Indicator light
- 4 Opening or closing the power back door



► Vehicles without power back door system

- 1 Locking the doors
- 2 Unlocking the doors
- 3 Indicator light
- 4 Sounding an alarm

NOTE:

* This feature can be set inoperative as vehicle theft deterrent measure in case of the loss of the wireless remote control key.

Ask your Lexus dealer for details.

When you operate any button on the key, push it slowly and surely. At this time, the indicator light on the key grip flashes once.

KEYS AND DOORS

The operational range of the wireless remote control is approximately 1 meter (3 ft.). The effective range may vary with different conditions. To activate the wireless remote control without fail, do it approximately 1 meter (3 ft.) from your Lexus.

In the following cases, the battery in the key may be discharged. If this is the case, replace it using a special screwdriver.

- The remote control does not work.
- The operational range of wireless remote control becomes extremely short.
- The indicator light on the key is dimmed or does not come on.

For the replacement of the battery, see "Replacing the battery" on page 39. You can also have the battery of the key replaced by your Lexus dealer.

If you lose the wireless key, contact your Lexus dealer as soon as possible to avoid the possibility of theft, or an accident. (See "If you lose your keys or lock yourself out" on page 509.)

You can use up to 4 wireless remote control keys for the same vehicle. Contact your Lexus dealer for detailed information.

The wireless remote control key is an electronic component. Observe the following instructions in order not to cause damage to the key.

- Do not leave the wireless remote control key in places where the temperature becomes high such as on the dashboard.
- Do not disassemble it.
- Avoid knocking it hard against other objects or dropping it.
- Avoid putting it in water.

KEYS AND DOORS

Locking/unlocking the doors

When you push the “LOCK” button on the key briefly, all the side doors and back door can be locked from outside the vehicle.

At this time, one beep sounds and the turn signal lights flash once.* However, when you push the “LOCK” button with any door not closed securely, the buzzer sounds for 10 seconds.** To stop the buzzer, close all the side doors and back door securely or push the “UNLOCK” button. If the key is in the ignition switch, locking cannot be done.

Make sure all the side doors and back door are locked when you leave the vehicle. Push the “LOCK” button once again.

NOTE:

* The turn signal lights can be set not to flash and the beep can be set not to sound.

** The buzzer can be set not to sound if a door is not closed securely.

Ask your Lexus dealer for details.

NOTICE

Vehicles with power back door system — Do not push the “LOCK” button any longer than 2 to 3 seconds. Pushing the button longer activates an alarm. For details, see page 35.

When you push the “UNLOCK” button, the driver’s door is unlocked. Pushing that button once again within 3 seconds from the first push, all other side doors and back door are also unlocked.*

NOTE:

* The 2-step unlocking function can be changed.

Ask your Lexus dealer for details.

At this time, two beeps sound and the turn signal lights flash twice.* Together with the activation of unlocking, some interior lights will come on. For further information, see “Illuminated entry system” on page 123.

KEYS AND DOORS

You have 30 seconds to open a door after using the wireless remote unlock feature.** If a door is not opened by then, all the side doors and back door will be automatically locked again.

Even if the "LOCK" or "UNLOCK" button is kept pressed in, the locking or unlocking operation is not repeated. Release the button and then push again.

NOTE:

* The turn signal lights can be set not to flash and the beep can be set not to sound.

** The time before automatic re-locking can be changed. Ask your Lexus dealer for details.

Sounding an alarm*



► Vehicles with power back door system



► Vehicles without power back door system

KEYS AND DOORS

Vehicles with power back door system — When you push the “PANIC” button for about 2 to 3 seconds, an alarm sounds to deter any person trying to break into or damage your vehicle.

Vehicles without power back door system — When you push the “PANIC” button for about 1 second, an alarm sounds to deter any person trying to break into or damage your vehicle.

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

This function does not work when the ignition key is in the “ON” position.

NOTE:

* The alarm can be set not to sound.
Ask your Lexus dealer for details.

Operating the windows and moonroof*

The windows and moonroof can be opened using a wireless key from outside the vehicle.

NOTE:

* The windows and moonroof can be set inoperative.
Ask your Lexus dealer for details.



Push the “UNLOCK” button until the windows and moonroof start to move. A beep sounds just before opening. When you release the button, the windows and moonroof stop opening.

Opening and closing the power back door*



To open the back door: Push the “PWR DOOR” button for about 1 second.** At this time, the turn signal lights flash twice, two beeps sound*** and the back door fully opens automatically.****

When pushing the button while the opening operation is being performed, the back door will close. At this time, a beep sounds.***

To close the back door: Push the “PWR DOOR” button once again for about 1 second.** At this time, the turn signal lights flash twice, two beeps sound*** and the back door fully closes automatically.****

When pushing the button while the closing operation is being performed, the back door will open. At this time, a beep sounds.***

NOTE:

* This feature can be set inoperative.

** The operation method can be changed.

*** The beep will sound from both the front and rear of the vehicle. The front beep can be set not to sound.

**** It is possible to set the beep to sound while the back door opens or closes and adjust its volume.

Ask your Lexus dealer for details.

Opening or closing operation can be performed by the button under the following conditions:

- The key is not in the ignition switch.
- The vehicle is stopped.
- The back door is unlocked.*
- The power back door system is on. (The power back door off switch is pushed in.) For details, see page 49.
- To open — The back door is between in the fully-closed position and half-opened position.
- To close — The back door is between in the fully-opened position and half-opened position.

NOTE:

* The back door can be set to be opened without being unlocked first.

Ask your Lexus dealer for details.

KEYS AND DOORS

For vehicles sold in U.S.A.

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

NOTICE:

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

- Reorient or relocate the receiving antenna.

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

FCC WARNING:

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

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.

Replacing the battery

When you replace the battery, prepare a lithium battery CR2016 or equivalent and a special screwdriver.

CAUTION

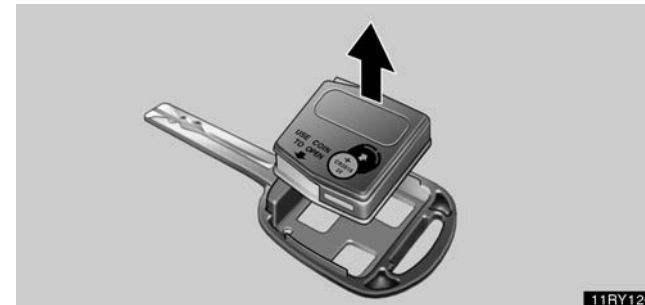
Special care should be taken to prevent small children from swallowing the removed battery or components.

NOTICE

- *When replacing the battery, be careful not to lose the components.*
- *Replace only with the same or equivalent type recommended by a Lexus dealer.*
- *Dispose of used batteries according to the local laws.*

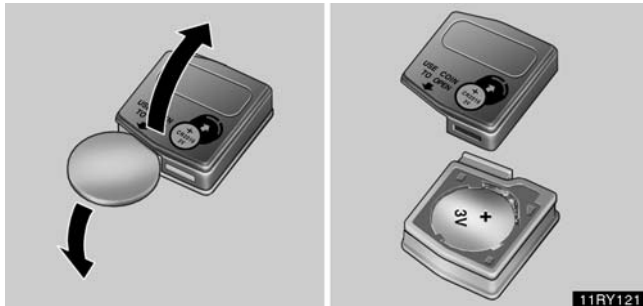


1. Remove the screw, and then the cover while pushing it in the arrow direction.



2. Remove the module from the key frame.

KEYS AND DOORS



3. Open and remove the battery case cover using a coin.
4. Remove the discharged battery and put in a new battery with the positive side up.

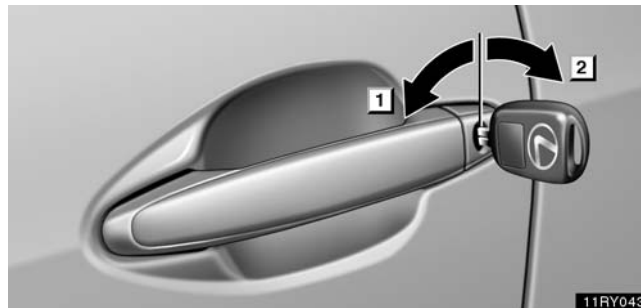
NOTICE

- *Make sure the positive side and negative side of the battery are faced correctly.*
- *Do not replace the battery with wet hands. Water may cause unexpected rust.*
- *Do not touch or move any components inside the transmitter, or it may interfere with proper operation.*
- *Be careful not to bend the electrode when inserting the battery and that dust or oils do not adhere to the inside of the module.*
- *Take care not to lose the screw.*

5. Replace the battery case cover.
6. Install the module into the key frame and secure the cover with the screw.
7. When pushing any button on the wireless key, make sure the indicator light comes on.

SIDE DOORS

Locking with key



► **1 Lock** **2 Unlock**

Turn the key towards the front of the vehicle to lock and towards the back to unlock.

All the side doors and back door lock and unlock simultaneously with the driver's door. Turning the key once will unlock the driver's door and twice in succession will unlock all the side doors and back door simultaneously.*

NOTE:

* The 2-step unlocking function can be changed.
Ask your Lexus dealer for details.

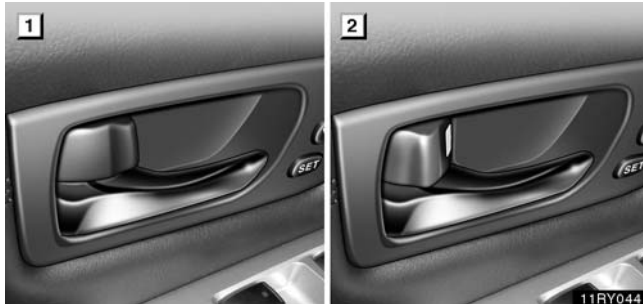
If a wrong key is used, the key cylinder rotates freely to isolate inside mechanism. So, door locking is protected from thieves.

Together with the activation of unlocking, some interior lights will come on. For further information, see "Illuminated entry system" on page 123.

The windows and moonroof can be opened and closed from outside the vehicle using the key. For details, see "Power window switches" on page 76 and "Moonroof" on page 154.

KEYS AND DOORS

Locking with inside lock button



► **1** Lock

2 Unlock

Push the button forward to lock and pull the button backward to unlock.

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



CAUTION

Do not pull the inside handle of the front doors while driving. The doors will open and an accident may occur. Lexus strongly recommends that all children be placed in the rear seat of the vehicle.

Closing the door with the lock button pushed in will also lock the door. Be careful not to lock your keys in the vehicle. Doors cannot be locked when either front door is open and the key is in the ignition.

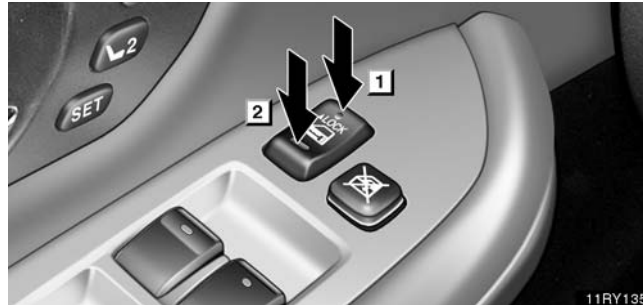
If the vehicle is subjected to a severe frontal, rear or side impact with the ignition switch turned to the "ON" position, all the side doors and back door will unlock automatically after a few seconds.



CAUTION

Before driving, make sure the doors are closed and locked, especially when small children are in the vehicle. Along with the proper use of seat belts, locking the doors helps prevent the driver and passengers from being thrown out from the vehicle in an accident. It also helps prevent the doors from being opened unintentionally.

Locking with power door lock switch



► **1 Lock** **2 Unlock**

To lock all the side doors and back door simultaneously, push the power door lock switch down on the front side. Pushing down on the rear side will unlock them.

The same switch is also located on the front passenger's side.

If you do any of the following, no door can be unlocked with the power door lock switch.

- Lock all the side doors and back door with the key or wireless remote control when all the side doors and back door are closed.
- Open the driver's door or front passenger's door and move the inside lock buttons of both front doors to the lock position, then close the front doors.

The power door lock switch can be reset in the following ways.

- Turn the ignition key to the "ON" position.
- Unlock all the side doors and back door with the key or wireless remote control.
- Unlock the driver's door or front passenger's door with the inside lock button, and then unlock all the side doors and back door with the power door lock switch.

KEYS AND DOORS

Automatic door locking and unlocking functions

AUTOMATIC DOOR LOCKING

You can select the following functions:

- **Locking linked with the shift position**

All doors are automatically locked when the selector lever is moved out of "P" position.

- **Locking linked with vehicle speed**

All doors are automatically locked when the vehicle speed goes above about 20 km/h (12 mph).

You can set or cancel the automatic door locking functions:

Be sure to apply the parking brake when performing the following operations.

To select the locking linked with the shift position:

1. Close all doors and turn the ignition switch to the "ON" position.
2. Shift the selector lever to the "P" position.
3. Within 10 seconds of turning the ignition switch to the "ON" position, press and hold the driver's side power door lock switch in the lock position for 5 seconds and then release.

The doors will be locked and unlocked to indicate that the function is set.

To cancel the function, do the above operation again.

To select the locking linked with the vehicle speed:

1. Close all doors and turn the ignition switch to the "ON" position.
2. Shift the selector lever from "P" to the "N" position.
3. Within 10 seconds of turning the ignition switch to the "ON" position, press and hold the driver's side power door lock switch in the lock position for 5 seconds and then release.

The doors will be locked and unlocked to indicate that the function is set.

To cancel the function, do the above operation again.

AUTOMATIC DOOR UNLOCKING

You can select the following functions:

- **Unlocking linked with the ignition switch**

All doors are automatically unlocked when the driver's door is opened within 10 seconds after the ignition switch is turned to the "ACC" or "LOCK" position, or the key is removed.

- **Unlocking linked with the shift position**

All doors are automatically unlocked when the selector lever is moved to "P" position.

You can set or cancel the automatic door unlocking functions:

Be sure to apply the parking brake when performing the following operations.

To select the unlocking linked with the ignition switch:

1. Close all doors and turn the ignition switch to the "ON" position.
2. Shift the selector lever from "P" to the "N" position.
3. Within 10 seconds of turning the ignition switch to the "ON" position, press and hold the driver's side power door lock switch in the unlock position for 5 seconds and then release.

The doors will be locked and unlocked to indicate that the function is set.

To cancel the function, do the above operation again.

To select the unlocking linked with the shift position:

1. Close all doors and turn the ignition switch to the "ON" position.
2. Shift the selector lever to the "P" position.
3. Within 10 seconds of turning the ignition switch to the "ON" position, press and hold the driver's side power door lock switch in the unlock position for 5 seconds and then release.

The doors will be locked and unlocked to indicate that the function is set.

To cancel the function, do the above operation again.

KEYS AND DOORS

Locking with rear door child-protector

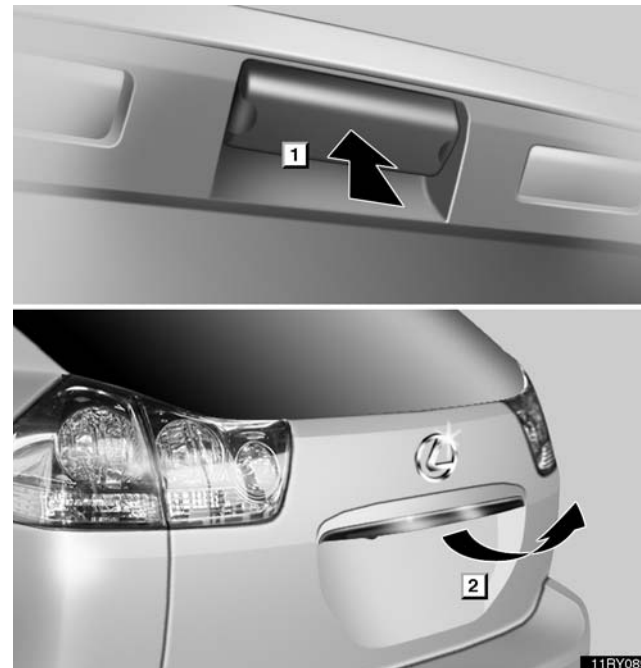


► **1** Unlock **2** Lock

Whenever small children are in the vehicle, lock the rear door so that it does not open by the inside door handle. To do this, move the lever to the “LOCK” position as shown and then close the door.

BACK DOOR

Opening and closing



► **1** Push **2** Open

To open the back door, push up the back door opener and raise the door.

If the back door will not open even pushing up the back door opener, push it up again.

When opening the back door, make sure that the back door will not come down by itself.

The back door can be opened when the vehicle is stopped.

The back door can be locked or unlocked in the following ways.

- Operate the power door lock switch. (See "Side doors" on page 41.)
- Operate the wireless remote control. (See "Wireless remote control" on page 32.)
- All the side doors and back door are locked and unlocked simultaneously with the driver's door. (See "Side doors" on page 41.)

If the auxiliary battery is disconnected or run down, the back door will be automatically locked after you reconnect, replace or recharge the battery. Be careful not to lock your keys in the vehicle.

See "Stowage precautions" on page 476 for precautions when loading luggage.



When closing the back door, the inside handle can be used to make the reach easier.

To close the back door, lower it and press down on it. After closing the back door, try pulling it up to make sure it is securely closed.

KEYS AND DOORS



CAUTION

- Keep the back door closed while driving. This not only keeps the luggage from being thrown out but also prevents exhaust gases from entering the vehicle.
- If the open back door hides the rear stop and tail lights or rear turn signal lights while you are parked, other road users must be warned of the presence of your vehicle by a warning triangle or other device.

NOTICE

To prevent damage to the back door dampers, do not apply any force, paint or let any other foreign matter on them.

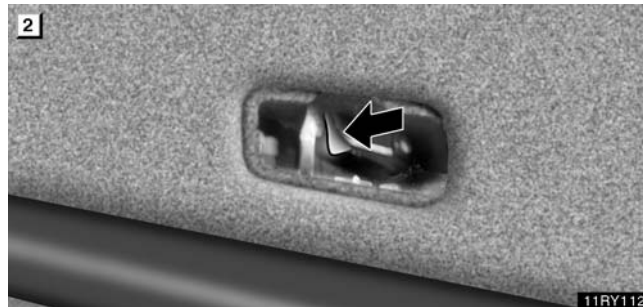
If the back door opener does not operate



If the back door opener does not operate, you can open the back door from the inside.

To open the back door from the inside, do the following.

1. Remove the cover with a key.

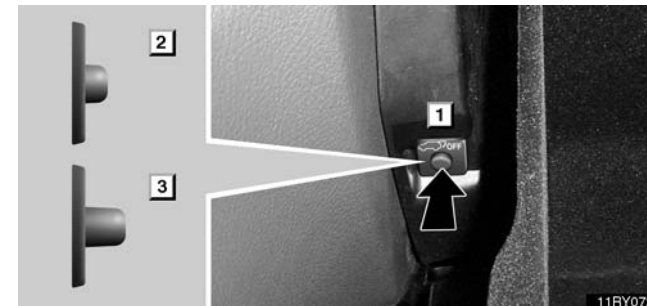


2. Push the lever and open the back door.

Have your vehicle checked/repared by your Lexus dealer if the back door opener does not operate.

POWER BACK DOOR

Power back door off switch



- **1** Power back door off switch
- 2** Operative
- 3** Inoperative

This switch is used to turn on and off the power back door system. In order to operate the power back door, the switch in the glove box must be pushed in. To disable the power back door feature, push out the switch.

KEYS AND DOORS



CAUTION

Do not leave small children or pets unattended in your vehicle. They could operate the power back door, and anyone around the back door could be injured. Turn off the power back door system when the power back door is not in use.

NOTICE

When your vehicle goes through an automatic car wash, make sure the power back door system is off.

Power back door switches



► Power back door opener/closer switch



► Power back door closer switch

KEYS AND DOORS

Pull down the switch cover.

To open the back door, push the power back door opener/closer switch on the instrument panel for about 1 second.* At this time, the turn signal lights flash twice, two beeps sound and the back door fully opens automatically.*****

When pushing the switch while the opening operation is being performed, the back door will close. At this time, a beep sounds.**

To close the back door, push the power back door opener/closer switch once again for about 1 second* or push the power back door closer switch on the back door. At this time, the turn signal lights flash twice, two beeps sound and the back door fully closes automatically.*****

When pushing the switch while the closing operation is being performed, the back door will open. At this time, a beep sounds.**

NOTE:

** The time required to push the switch can be changed.*

*** The beep will sound from both the front and rear of the vehicle. The front beep can be set not to sound.*

**** It is possible to set the beep to sound while the back door opens or closes and adjust its volume.*

Ask your Lexus dealer for details.

Opening or closing operation can be performed by the switches under the following conditions:

- The vehicle is stopped.
- The back door is unlocked.*
- The power back door system is on. (The power back door off switch is pushed in.)
- To open — When the ignition key is in the “ON” position, the transmission selector lever must be in “P”.
- To open — The back door is between in the fully-closed position and half-opened position.
- To close — The back door is between in the fully-opened position and half-opened position.

The power back door can be opened and closed using the wireless remote control. For details, see “Wireless remote control” on page 32.

NOTE:

** The back door can be set to be opened without being unlocked first.*

Ask your Lexus dealer for details.

KEYS AND DOORS

Jam protection function

If anything with sufficient resistance obstructs the power back door while it is closing or opening, the back door will automatically reverse to the opposite direction.

If the jam protection function operates continuously at the closing operation more than 2 times, the back door will be stopped at that position.

Before operating the power back door, make sure there is nobody near the back door.

The resistance must be as strong as the force of the moving door, or stronger. As the back door approaches the fully-closed or fully-opened position, its moving force increases significantly.

If the back door receives a strong impact, this function may operate even if nothing is caught.

Falling down protection function

When you open the back door with the switch or the wireless remote control, if some loads such as snow on the back door make the back door fall down, the back door will automatically close. The beeps sound intermittently while closing the back door.

Before opening the power back door, make sure there is no load on the back door.

If you close the back door by hand right after the back door opening, this function may work even there is no load on the back door.

 CAUTION

The power back door could injure people if they are caught in the door path. When using the power back door, observe the following:

- Before you close the power back door, always make sure there is nobody around it. If someone's neck, head or hands get caught in a closing door, it could result in a serious injury. When anyone closes the power back door, make sure he or she operates the door safely.
- Do not leave small children or pets unattended in your vehicle. They could operate the power back door, and anyone around the back door could be injured. Turn off the power back door system when the power back door is not in use.
- Never try jamming any part of your body to activate the jam protection function intentionally.
- The jam protection function may not work if something gets caught just before the back door is fully closed.

NOTICE

- *Do not apply excessive force when the back door is operated automatically. Otherwise, the power back door system may become defective.*
- *Objects caught in the path of the back door may be damaged. Make sure there is nothing in the doorway before closing the back door.*

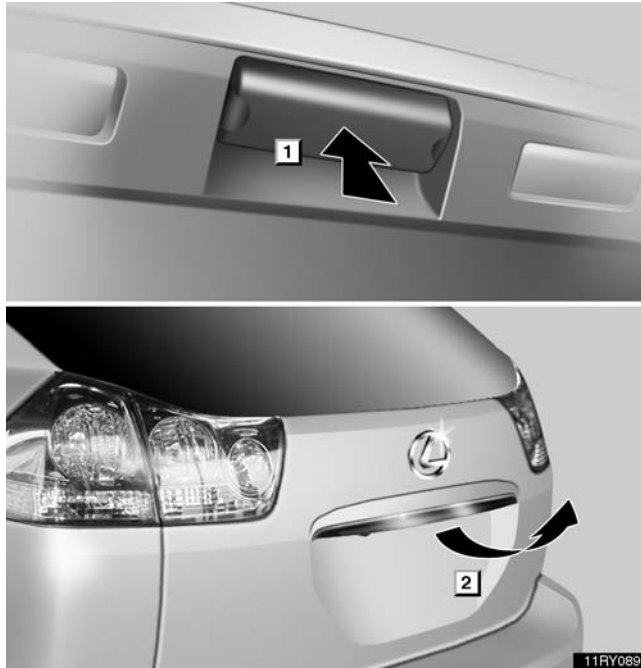
If the auxiliary battery is disconnected or run down

The power back door system may not work after you reconnect, replace or recharge the auxiliary battery. In any of these cases, close the back door completely by hand to normalize the power back door system.

If the power back door system does not operate properly after the above procedure, there may be a problem in the system. Contact your Lexus dealer.

KEYS AND DOORS

Opening and closing by hand



► **1** Push

2 Open

To open the back door, push up the back door opener and raise the door.

If the back door will not open even pushing up the back door opener, push it up again.

When opening the back door, make sure that the back door will not come down by itself.

The back door can be opened when the vehicle is stopped.

The back door can be locked or unlocked in the following ways.

- Operate the power door lock switch. (See “Side doors” on page 41.)
- Operate the wireless remote control. (See “Wireless remote control” on page 32.)
- All the side doors and back door are locked and unlocked simultaneously with the driver’s door. (See “Side doors” on page 41.)

If the auxiliary battery is disconnected or run down, the back door will be automatically locked after you reconnect, replace or recharge the battery. Be careful not to lock your keys in the vehicle.

See “Stowage precautions” on page 476 for precautions when loading luggage.

KEYS AND DOORS



When closing the back door, the inside handle can be used to make the reach easier.

To close the back door, lower it and press down on it. After closing the back door, try pulling it up to make sure it is securely closed.



CAUTION

- Keep the back door closed while driving. This not only keeps the luggage from being thrown out but also prevents exhaust gases from entering the vehicle.
- If the open back door hides the rear stop and tail lights or rear turn signal lights while you are parked, other road users must be warned of the presence of your vehicle by a warning triangle or other device.

NOTICE

To prevent damage to the back door dampers, do not apply any force, paint or let any other foreign matter on them.

KEYS AND DOORS

Back door closer

When the back door has not been fully closed, it is fully closed automatically even if the power back door system is off.



CAUTION

- Careful attention is needed so as not to get your fingers trapped as the back door automatically closes when it has not been fully closed.
- Never allow a child to operate the back door.

NOTICE

Do not apply excessive force when the back door closer is operating. Otherwise, the back door closer may become defective.

If the back door opener does not operate



If the back door opener does not operate, you can open the back door from the inside.

To open the back door from the inside, do the following.

1. Remove the cover with a key.



2. Push the lever and open the back door.

Have your vehicle checked/repared by your Lexus dealer if the back door opener does not operate.

THEFT DETERRENT SYSTEM

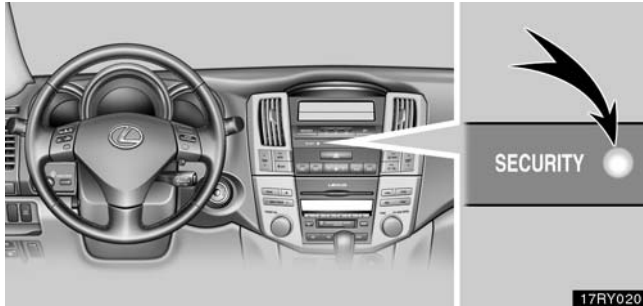


To deter theft of the vehicle, this system is designed to sound an alarm if any of the doors or hood is forcibly unlocked or the terminal of the auxiliary battery is disconnected and then reconnected while the vehicle is locked.

The alarm blows the horn intermittently and flashes the headlights, tail lights and turn signal lights.

Further more when the interior light switch is in the "DOOR" position, the interior light turns on.

KEYS AND DOORS



► **Security indicator light**

Setting the system

1. Turn the ignition key to the “LOCK” position and remove it.

The engine immobilizer system causes the indicator light to flash.

2. Close and lock all the doors and hood using an ignition key or wireless remote control.

The flashing indicator light will remain on when all the doors and hood are closed and locked.

3. After 30 seconds, the indicator starts flashing and the system is set.

Cancelling the system

When you unlock any door using an ignition key or wireless remote control, the system is cancelled.

Also, the system will be cancelled when the ignition key is turned to the “ON” position.

Activating the system

The alarm sounds for about 1minute if any of the following are operated:

- Unlocking any door without using an ignition key or wireless remote control.
- Opening hood and any doors forcibly.
- Reconnecting the auxiliary battery.
- Hotwiring the ignition.

If the auxiliary battery becomes discharged due to the vehicle being unused for a long time, etc., when the battery is recharged or replaced, the system will give the alarm. If this happens, immediately unlock any of the doors with the key or the wireless remote control, and the alarm will stop.

If any door is unlocked and the ignition key is not in the ignition switch during the alarm sounding, the door is automatically locked.

To stop the alarm: Use either of the following methods.

- Unlock the door using an ignition key or wireless remote control.
- Turn the ignition switch on.

Testing the system

1. Open all the windows.

2. Set the system as described above.

The side doors and back door should be locked with the ignition key or wireless remote control. Be sure to wait until the indicator light starts flashing.

3. Unlock one of the doors from the inside.

The system should activate the alarm.

4. Unlock any of the doors with a key or the wireless remote control to cancel the system.

5. Repeat this operation for the other doors and hood.

When testing the hood, also check that the system is activated when the terminal of the auxiliary battery is disconnected and then reconnected.

If the system does not work properly, have it checked by your Lexus dealer.

KEYS AND DOORS

NOTICE

Disconnecting the auxiliary battery may result in the erasure of information you have set in the computer memory. After reconnecting the battery, check that the memorized data has been retained. If it has been erased, input it into the computer once more.

SECTION 1 – 2

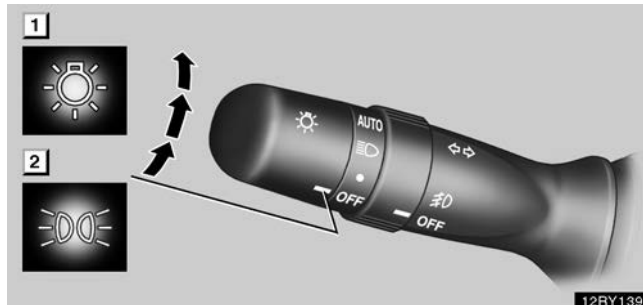
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SWITCHES

HEADLIGHT SWITCH



► **1 U.S.A.** **2 Canada**

To turn the lights on, twist the knob on the end of the lever.

FIRST CLICKSTOP: Only the parking, tail, license plate, side marker and instrument panel lights turn on.

SECOND CLICKSTOP: Headlights also turn on.

THIRD CLICKSTOP ("AUTO"): The headlights and all other lights automatically turn on depending on the darkness of the surroundings.

Vehicles sold in U.S.A.: When the headlights are on, the headlight indicator lights up in the instrument cluster.

Vehicles sold in Canada: When the tail lights are on, the tail light indicator lights up in the instrument cluster.

With the knob in the "AUTO" position, there may be a case that the headlights do not turn on immediately, even when the vehicle enters a dark place such as a tunnel or parking lot according to lighting conditions. In this case, we recommend you to twist the knob manually to the second clickstop to turn on the headlights immediately.

When the headlight switch is turned to the first or second clickstop, the brightness of the instrument cluster will be reduced slightly unless the instrument panel light control knob is turned fully on.

However, the brightness of the instrument cluster will not be reduced in daytime even when the headlight switch is turned to first or second clickstop.

SWITCHES



The automatic light control sensor is on the top of the driver's side instrument panel.

Do not place anything on the instrument panel, and/or do not affix anything on the windshield to block this sensor.

When the headlights come on: The lights automatically turn off about 30 seconds after any of the side doors and back door is opened and closed with the ignition key turned to the "ACC" or "LOCK" position. Additionally, the lights can be turned off immediately by pushing the "LOCK" button on the wireless remote control key with all the side doors and back door locked.

When only the tail lights come on: The lights automatically turn off with the driver's door opened and the ignition key turned to the "ACC" or "LOCK" position. To turn them on again, turn the ignition key to the "ON" position, or turn the headlight switch off and then twist the knob until the first or second clickstop.

If you are going to park for over one week, make sure the headlight switch is off.

Daytime Running Light System

The headlights turn on at reduced intensity when the parking brake is released with the hybrid system turned on, even with the light switch in the "OFF" position. They will not go off until the ignition switch is turned off.

To turn on the other exterior lights and instrument panel lights, twist the knob to the first clickstop.

SWITCHES

Twist the knob to the second clickstop to turn on the headlights to full intensity for driving at night.

When setting the knob to the third clickstop ("AUTO"), the headlights will automatically adjust to full intensity and/or turn on the other lights depending on the darkness of the surroundings. Likewise, as the surroundings become brighter, the headlights will turn to reduced intensity, ultimately turning off the other lights.

NOTICE

To prevent the auxiliary battery from being discharged, do not leave the lights on longer than necessary when the hybrid system is off.

Automatic headlight leveling system (vehicles with discharge headlight only)



Vehicle position changes according to loading condition, passengers getting on and off, vehicle acceleration and deceleration, etc. However, the headlight beam level is always maintained automatically by the system at the proper level so that your headlights do not dazzle other road users.

If the system fails, a warning message "HEAD LIGHT LEVELING" appears on the multi-information display, the master warning light comes on and a warning tone sounds. If this occurs, have your vehicle checked by your Lexus dealer.

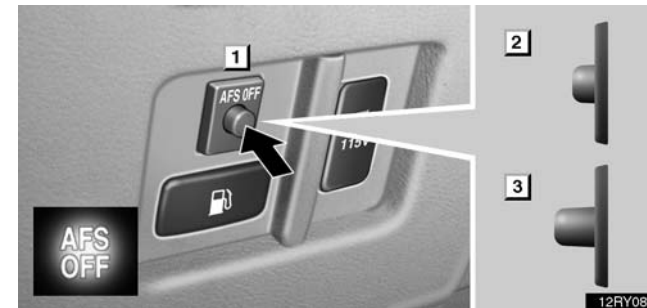
If you replace the rear suspension, contact your Lexus dealer to check the automatic headlight leveling system and headlight beam level.

Adaptive front-lighting system

Adaptive front lighting system (AFS) is designed to swivel the low beam headlights according to the steering angle to provide the proper light distribution when the vehicle is cornering.

The system operates when the vehicle speed rises above 30 km/h (18 mph), and stops when the vehicle speed drops below 5 km/h (3 mph).

The system can operate within the limited range of the steering wheel turning angle.



- **1** Adaptive front-lighting system off switch
- 2** Inoperative
- 3** Operative

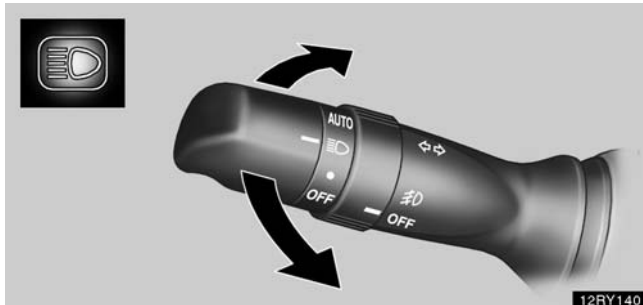
If you do not want to activate the system, push in the switch to turn off the system. To turn it on, push it again.

When the system is turned off, the “AFS OFF” indicator lights up in the instrument cluster.

If the system fails, the indicator light in the instrument cluster will flash. If this occurs, have your vehicle checked by your Lexus dealer.

SWITCHES

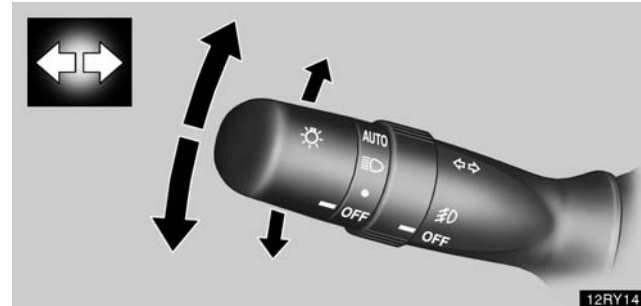
HEADLIGHT DIMMER AND TURN SIGNAL SWITCH



For high beam, push the lever forward. Pull it back for low beam. For the headlight flasher, pull it further back.

A blue light in the instrument cluster indicates high beam or headlight flasher is on.

The headlight flasher works even when the headlight switch is off.



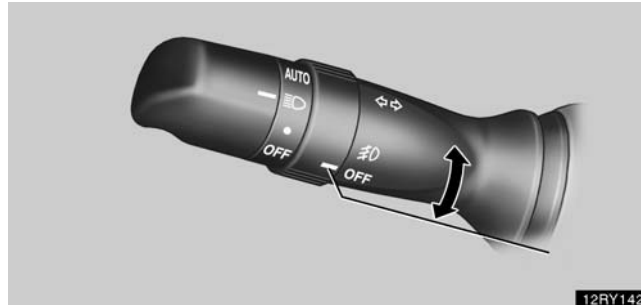
For signaling turns, move the lever up or down in the conventional manner.

The ignition key must be in the "ON" position.

The turn signal is self-cancelling after a turn, but after a lane change, you may have to cancel it by hand. You can also signal a lane change by moving the turn signal lever partway and holding it there.

If the green light in the instrument cluster flashes faster than normal, it indicates that the front or rear turn signal bulb has burned out. If this indicator light does not come on, the fuse or the indicator light itself has probably failed.

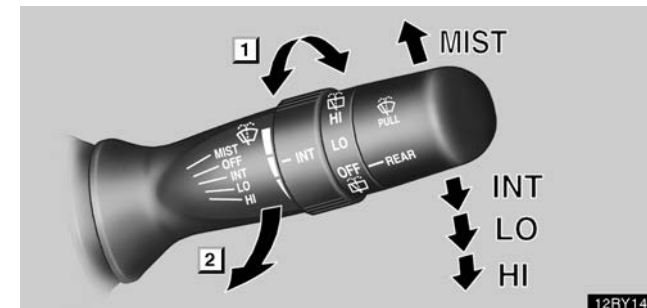
FOG LIGHT SWITCH



To turn on the fog lights, twist the band of the headlight switch lever to the position of the fog light. The fog lights come on only when the headlights are on low beam.

WINDSHIELD WIPER AND WASHER SWITCH

Variable intermittent windshield wipers



- **1** Interval adjuster
- 2** Washer on

To turn the wipers on, move the lever down until you reach the desired speed setting.

The ignition key must be in the "ON" position.

There are 3 settings:

- "INT" position** — Variable intermittent operation
- "LO" position** — Low speed operation
- "HI" position** — High speed operation

SWITCHES

Twist the interval adjuster upward to increase the wiping time interval between sweeps, and downward to decrease it.

The wiper lever must be in the "INT" position.

For mist wiper operations (a single wipe), pull the lever up and release it.

To make the washer squirt, pull the lever toward you and release it.

Also, the wipers will automatically operate a couple of times after the washer squirts even with the lever in the "OFF" position.

Vehicles with headlight cleaner — If you pull the windshield washer lever toward you with the headlights on, the headlight cleaner operates once automatically together with the windshield washer fluid.

The low washer fluid warning light in the instrument cluster comes on when the fluid level in the tank becomes nearly empty. For information on adding washer fluid, see "Adding washer fluid" on page 593.

In cold weather, warm the windshield with the defroster before using the washer. This will help prevent icing, which could block your vision.

NOTICE

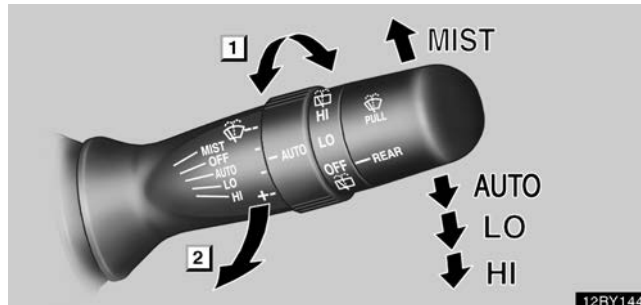
Do not operate the wipers if the windshield is dry. It may scratch the glass.

When waxing your vehicle, make sure that the washer nozzles do not become blocked. If a nozzle becomes blocked, contact your Lexus dealer to have the vehicle serviced.

NOTICE

If a nozzle becomes blocked, do not try to clear it with a pin or other object. The nozzle will be damaged.

Rain-sensing windshield wipers



- **1** Automatic control adjuster
- 2** Washer on

To turn the wipers on, move the lever down until you reach the desired speed setting.

The ignition key must be in the "ON" position.

There are 3 settings:

"**AUTO**" position — Automatic operation

"**LO**" position — Low speed operation

"**HI**" position — High speed operation

Automatic operation

The wiper speed is determined by the amount of raindrops and sunlight detected by the automatic wiper control sensor.

You may adjust the automatic wiper control sensitivity by twisting the automatic control adjuster in the "–" direction, which requires more raindrop volume to start the wiper, or in the "+" direction, which requires less raindrop volume to start the wiper.



The sensor is on the inside of the windshield as shown above.

SWITCHES

Even if the wiper lever is in the "AUTO" position, the system will switch to variable intermittent operations in the following conditions:

- When the windshield gets extremely cold (at less than -10°C [14°F])
- When the system malfunctions

However, when the windshield gets extremely hot (at more than 90°C [194°F]), the wipers do not operate even if the wiper lever is in the "AUTO" position.

When the ignition switch is turned off with the wiper lever in the "AUTO" position, and then the ignition switch is turned on again, the automatic operation may not work even if raindrops are on the windshield.

In this case, move the lever to another position and return it to the "AUTO" position again.

CAUTION

Be careful not to get your fingers caught between the wipers and windshield.

When the wiper lever is in the "AUTO" position with the ignition switch on, the wipers could operate automatically in the following cases:

- If you touch the upper center of the windshield adjacent to the sensor.
- If you wipe the upper center of the windshield (adjacent to which the sensor is located) with a towel.
- If the windshield vibrates.
- If you touch the sensor.

NOTICE

Do not apply detergent to or wet the automatic wiper control sensor when cleaning the inside of the windshield.

SWITCHES

For mist wiper operations (a single wipe), pull the lever up and release it.

To make the washer squirt, pull the lever toward you and release it.

Also, the wipers will automatically operate a couple of times after the washer squirts even with the lever in the "OFF" position.

Vehicles with headlight cleaner — If you pull the windshield washer lever toward you with the headlights on, the headlight cleaner operates once automatically together with the windshield washer fluid.

The low washer fluid warning light in the instrument cluster comes on when the fluid level in the tank becomes nearly empty. For information on adding washer fluid, see "Adding washer fluid" on page 593.

In cold weather, warm the windshield with the defroster before using the washer. This will help prevent icing, which could block your vision.

NOTICE

Do not operate the wipers if the windshield is dry. It may scratch the glass.

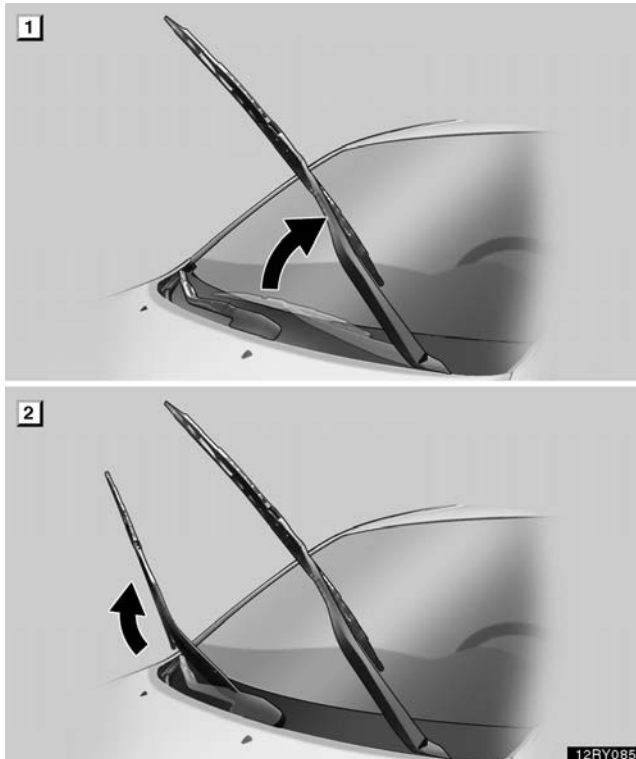
When waxing your vehicle, make sure that the washer nozzles do not become blocked. If a nozzle becomes blocked, contact your Lexus dealer to have the vehicle serviced.

NOTICE

If a nozzle becomes blocked, do not try to clear it with a pin or other object. The nozzle will be damaged.

SWITCHES

Lifting the windshield wiper arms



When lifting the windshield wiper arms away from the window, follow the procedure in the order indicated.

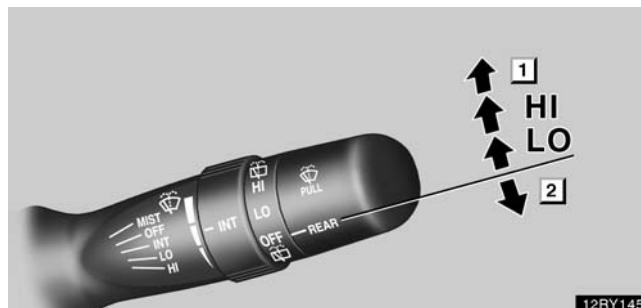
- 1 Pull the driver side wiper arm upward.
- 2 Pull the passenger side wiper arm upward.

When returning the wiper arms to their original position, push the passenger side wiper arm down first, and then push the driver side wiper arm down.

NOTICE

To prevent damage to the wipers, pull the driver side wiper arm upward first, and repeat for the passenger side. When returning the wipers to their original position, do so from the passenger side first.

REAR WINDOW WIPER AND WASHER SWITCH



- **1** Washer on during wiping
- 2** Washer on

To turn the wipers on, twist the knob at the end of the lever.

The ignition key must be in the “ON” position.

There are 2 settings:

“HI” position — Low speed operation

“LO” position — Intermittent operation

To make the washer squirt, twist the knob downward to position 2.

To make the washer squirt while operating in “ON” position, twist the knob upward to position 1.

The knob automatically returns from these positions after you release it.

The rear window wiper operates while the washer squirts.

The low washer fluid warning light in the instrument cluster comes on when the fluid level in the tank becomes nearly empty. For information on adding washer fluid, see “Adding washer fluid” on page 593.

NOTICE

Do not operate the rear window wiper if the rear window is dry. It may scratch the glass.

SWITCHES

HEADLIGHT CLEANER SWITCH



To spray fluid on the headlights, push the switch with the headlights on.

The ignition key must be in the "ON" position.

The message "LOW WASHER FLUID" appears on the multi-information display when the fluid level in the tank becomes nearly empty. For information on adding washer fluid, see "Adding washer fluid" on page 593.

NOTICE

Do not turn the headlight cleaner on with the washer fluid tank empty. It may cause the cleaner motor to overheat.

SWITCHES

REAR WINDOW AND OUTSIDE REAR VIEW MIRROR DEFOGGER, AND WINDSHIELD WIPER DE-ICER SWITCH



To turn the electric rear window and outside rear view mirror defogger on, push the switch.

The ignition key must be in the "ON" position.

The thin heater wires on the inside of the rear window and the heater panels in the outside rear view mirrors will quickly clear the surface. An indicator light is on when the defogger is operating.

Vehicles sold in Canada — The windshield wiper de-icers are equipped to deice the windshield wiper blades by operating simultaneously with defogger.

The system will automatically shut off when the defogger has operated about 15 minutes.



CAUTION

Since the mirror surfaces can get hot, do not touch them when the switch is on.

If further defrosting or defogging is desired, simply actuate the switch again. When the surface has cleared, push the switch once again to turn the defogger off. Continuous use may cause the auxiliary battery to discharge, especially during stop-and-go driving. The defogger is not designed to dry rain water or to melt snow.

If the outside rear view mirrors are heavily coated with ice, use a spray de-icer before operating the switch.

SWITCHES

NOTICE

- *When cleaning the inside of the rear window, be careful not to scratch or damage the heater wires or connectors.*
- *To prevent the auxiliary battery from being discharged, turn the switch off when the hybrid system is off.*

POWER WINDOW SWITCHES



- **1** For driver's window
- 2** For front passenger's window
- 3** For left rear window
- 4** For right rear window

To raise or lower the windows, use the switch on each door. The passengers' windows can also be controlled by the switches on the driver's door.

The power windows work when the ignition key is in the "ON" position.

Retained accessory power operation: Even if the ignition key is turned to the "ACC" or "LOCK" position with all the side doors and back door closed, the window can be operated until either front door is opened (or for 43 seconds).



Operating the switches

To lower the window, push the switch halfway down. Pull it up to raise the window. The window glass moves as long as the switch is operated.

Automatic operation: To fully raise or lower the window automatically, pull the switch fully up or push it fully down.

To stop the window partway, lightly push or pull the switch in the opposite direction and then release it.

Operating the window lock switch



► Indicator lights

With the window lock switch pressed in, only the driver's window can be raised or lowered.

The indicator lights on the switches tell you which of the switches can be operated.

SWITCHES

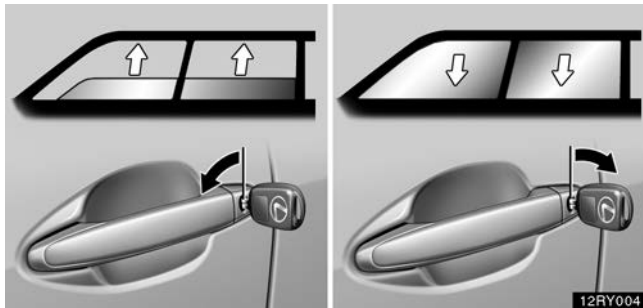
Operating the windows from outside the vehicle

The windows can be operated using an ignition key.*

NOTE:

* This feature can be deactivated.

Ask your Lexus dealer for details.



► **Close**

► **Open**

Insert the ignition key into the key hole on the driver's door.

To close the windows: Turn the key in the locking direction and hold it.

After the doors are locked, the windows begin to close. To stop in the middle, return the key.

To open the windows: Turn the key in the unlocking direction and hold it.

After the door is unlocked, the windows begin to open. To stop in the middle, return the key.

The windows also can be opened using the wireless remote control. For details, see page 36.

Jam protection function

During automatic raising operation, retained accessory power raising operation or raising operation using the ignition key from the outside, the window stops and is lowered if something gets caught between the window and window frame.

If the window receives a strong impact, this function may work even if nothing is caught.

If the auxiliary battery is disconnected or run down

The power window may not operate automatically and the jam protection function will not function correctly after you reconnect, replace or recharge the auxiliary battery. At this time, the indicator lights of the switches will flash. In any of these cases, you should normalize the power window on each door.

To normalize the power windows:

1. Push down the power window switch of each door and lower the windows halfway.
2. Pull up the switch until the windows close and hold the switch for a second.

Make sure that the windows open and close automatically. If the power windows cannot be operated properly, have it checked by your Lexus dealer.

**CAUTION**

To avoid serious personal injury, you must do the following.

- Before you close the power windows, always make sure there is nobody around the power windows. You must also make sure the heads, hands and other parts of the bodies of all occupants are kept completely inside the vehicle. If someone's neck, head or hands get caught in a closing window, it could result in death or serious injury. When anyone closes the power windows, make sure he or she operates the windows safely.
- When small children are in the vehicle, never let them use the power window switches without supervision. Use the window lock switch to prevent them from making unexpected use of the switches.
- Be sure to remove the ignition key when you leave your vehicle.
- Never leave anyone (particularly a small child) alone in your vehicle, especially with the ignition key still inserted. Otherwise, he/she could use the power window switches and get trapped in a window. Unattended person (particularly a small child) can be involved in a serious accident.

SWITCHES

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

EMERGENCY FLASHER SWITCH



► Vehicles with navigation system



► Vehicles with center display

To turn on the emergency flashers, push the switch. To turn them off, push the switch again.

All the turn signal lights will flash. The emergency flashers will work with the hybrid system on or off and with or without the ignition key.

Turn on the emergency flashers to warn other drivers if you must stop your vehicle where it might be a traffic hazard.

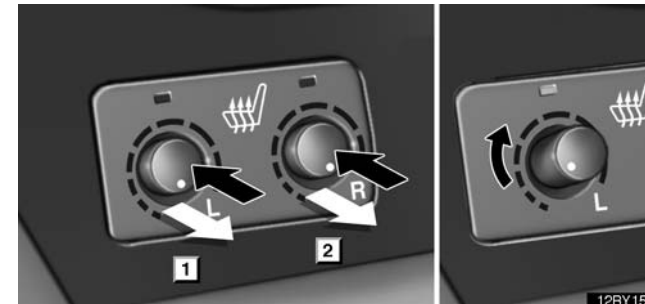
Always pull your vehicle as far off the road as possible.

The turn signal light switch will not work when the emergency flashers are in operation.

NOTICE

To prevent the auxiliary battery from being discharged, do not leave the switch on longer than necessary when the hybrid system is off.

SEAT HEATER SWITCHES



- **1** For driver's seat
- 2** For front passenger's seat

The front seat heater has two switches: one marked “L” (for driver's seat) and the other marked “R” (for front passenger's seat).

The ignition key must be in the “ON” position to operate seat heaters.

To use the seat heater:

1. Push the knob to pop it out.
2. Turn the knob clockwise. The indicator light turns on.
3. Adjust the knob to the desired temperature.

SWITCHES

To turn off the seat heater, turn the knob counterclockwise until it stops.

Push the knob into the recessed position when not in use.



CAUTION

Occupants must use caution when operating the seat heater because they may experience minor burns even at low temperatures. Use extra caution for;

- Babies, small children, elderly persons, sick persons or persons with physical disabilities
- Persons who have sensitive skin
- Persons who are exhausted
- Persons who have taken alcohol or drugs which induce sleep (sleeping drug, cold remedy, etc.).

To prevent the seat from overheating, do not use the seat heater with a blanket, cushion, or other insulating objects which cover the seat.

NOTICE

- *Do not put unevenly weighted objects on the seat and do not stick sharp objects (needles, nails, etc.) into the seat.*
- *When cleaning the seats, do not use organic substances (paint thinner, benzine, alcohol, gasoline, etc.). They may damage the heater and seat surface.*
- *To prevent the auxiliary battery from being discharged, turn the switch off when the hybrid system is off.*

SECTION 1 – 3

INSTRUMENTS AND CONTROLS

Gauges, meters and service reminder indicators

Fuel gauge	84
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Power meter	86
Service reminder indicators and warning buzzers	86
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GAUGES, METERS AND SERVICE REMINDER INDICATORS

FUEL GAUGE



► *Low fuel level warning light*

The gauge indicates the approximate quantity of fuel remaining in the tank when the ignition switch is on.

It is a good idea to keep the tank over 1/4 full.

If the fuel level approaches "E" or the low fuel level warning light comes on, fill the fuel tank as soon as possible.

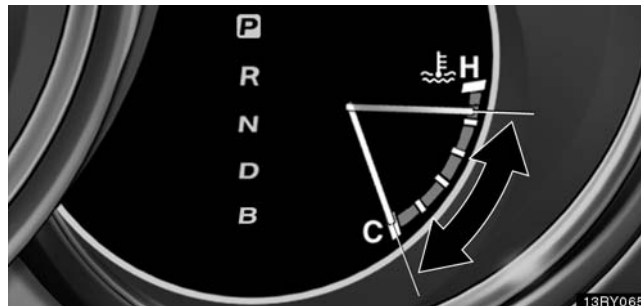
On inclines or curves, due to the movement of fuel in the tank, the fuel gauge needle may fluctuate or the low fuel level warning light may come on earlier than usual.

If the fuel tank is completely empty, the malfunction indicator lamp comes on. Fill the fuel tank immediately.

The indicator lamp goes off after driving several times. If the indicator lamp does not go off, contact your Lexus dealer as soon as possible.

See the inner back cover for fuel capacity and recommended fuel selection.

ENGINE COOLANT TEMPERATURE GAUGE



► Normal range

The gauge indicates the engine coolant temperature when the ignition switch is on. The engine operating temperature will vary with changes in weather and engine load.

If the needle points to the red zone or higher, stop your vehicle and allow the engine to cool.

Your vehicle may overheat during severe operating conditions, such as:

- Driving up a long hill on a hot day.
- Reducing speed or stopping after high speed driving.
- Idling for a long period with the air conditioning on in stop-and-go traffic.
- Towing a trailer.

NOTICE

- *Do not remove the thermostat in the engine cooling system as this may cause the engine to overheat. The thermostat is designed to control the flow of coolant to keep the temperature of the engine within the specified operating range.*
- *Do not continue driving with an overheated engine. See "If your vehicle overheats" on page 484.*

GAUGES, METERS AND SERVICE REMINDER INDICATORS

POWER METER



The power meter indicates the instantaneous output from the hybrid system in approximate kilowatts.

While the hybrid system is regenerating energy, the meter indicates negative.

SERVICE REMINDER INDICATORS AND WARNING BUZZERS

IF THIS INDICATOR OR BUZZER COMES ON...		DO THIS.
(a)	(red indicator)	If parking brake is off, stop immediately and contact Lexus dealer.
	(yellow indicator)	Take vehicle to Lexus dealer. If red brake system warning light is also on, stop immediately and contact Lexus dealer.
(b)	(indicator and buzzer)	Fasten driver's seat belt.
(c)	(indicator and buzzer)	Fasten front passenger's seat belt.

GAUGES, METERS AND SERVICE REMINDER INDICATORS

IF THIS INDICATOR OR BUZZER COMES ON...		DO THIS.
(d)		Take vehicle to Lexus dealer immediately.
(e)		Take vehicle to Lexus dealer.
(f)		Stop and check.
(g)	 or 	Take vehicle to Lexus dealer.
(h)		See a warning message that appear on the multi-information display.
(i)		Take vehicle to Lexus dealer.

IF THIS INDICATOR OR BUZZER COMES ON...		DO THIS.
(j)	 or 	Take vehicle to Lexus dealer. If the red brake system warning light is also on, stop immediately and contact Lexus dealer.
(k)		Close all side doors and back door. A door left open appears on the multi-information display.
(l)	Low fuel level warning light	Fill up tank.
(m)	Key reminder buzzer	Remove key.

GAUGES, METERS AND SERVICE REMINDER INDICATORS

(a) Brake System Warning Light

These lights come on in the following cases when the ignition is turned on.

RED WARNING LIGHT

- **When the parking brake is applied...**

This light comes on when the ignition is turned on, even after the parking brake is released. When the vehicle speed exceeds 5 km/h (3 mph), a message "PARK BRAKE" appears on the multi-information display, the master warning light flashes and a warning tone sounds.

- **When the brake fluid level is low...**



YELLOW WARNING LIGHT

- **When the regenerative brake system or electronically controlled brake system fails...**

When the yellow warning light comes on, the regenerative brake system and/or electronically controlled brake system is malfunctioning. Take your vehicle to your Lexus dealer.

RED AND YELLOW WARNING LIGHT

- **When the hydraulic brake system fails...**

If the red and yellow warning lights come on, it indicates a serious problem and you can continue driving no longer.

Have your vehicle checked at your Lexus dealer in the following cases:

- The lights do not come on even if the parking brake is applied when the "READY" light is on.
- The lights do not come on even if the ignition is turned on with the parking brake released.

A red warning light turning on briefly during operation does not indicate a problem.

GAUGES, METERS AND SERVICE REMINDER INDICATORS

CAUTION

If any of the following conditions occurs, immediately stop your vehicle at a safe place and contact your Lexus dealer.

- The red warning light does not turn off even after the parking brake is released with the hybrid system on.
- The red warning light stays on.

In either case, this can indicate that the brakes may not work properly and your stopping distance will increase. Depress the brake pedal firmly and bring the vehicle to an immediate stop.

- The red brake system warning light remains on together with the “ABS” warning light and the warning message “CHECK VSC SYSTEM”.

In this case, not only the anti-lock brake system function and vehicle stability control function of the VDIM (vehicle dynamics integrated management) will fail but also the vehicle will become extremely unstable during braking.

In the following case, drive directly to the nearest Lexus dealer.

- The yellow warning light comes on while driving.

Any of the following conditions may occur, but do not indicate the malfunction:

- The red and yellow warning lights may stay on for about 60 seconds after the ignition is turned on. It is normal if it turns off after a while.
- Depressing the brake pedal repeatedly may turn on the red warning light. It is normal if the light turns off after a few seconds.
- You may hear a small sound in the engine compartment after the hybrid system is started or the brake pedal is depressed repeatedly. This is a pump pulsating sound of the brake system, not a malfunction.
- You may hear a motor sound in the engine compartment when the brake pedal is depressed with the hybrid system off.
- The brake pedal stroke may be short when you turn the ignition on with the brake pedal depressed.

GAUGES, METERS AND SERVICE REMINDER INDICATORS

(b) Driver's Seat Belt Reminder Light and Buzzer

The light and buzzer act as a reminder to buckle up the driver's seat belt.

Once the ignition key is turned to the "ON" position, the buzzer sounds for about 6 seconds and the reminder light flashes if the driver's seat belt is not fastened. Unless the driver fastens the belt, the light continues flashing.

If the vehicle speed rises above 15 km/h (9 mph) with the seat belt unfastened, the buzzer will sound for about 10 seconds. Then, if the seat belt is still unfastened, the buzzer will sound in a different tone for 20 more seconds. Even if the vehicle speed drops below 15 km/h (9 mph), the buzzer will continue to sound. To stop the buzzer, fasten the seat belt.

(c) Front Passenger's Seat Belt Reminder Light and Buzzer

The light and buzzer act as a reminder to have the front passenger buckle up the seat belt.

Once the ignition key is turned to the "ON" position, the reminder light flashes if a passenger sits in the front passenger seat and does not fasten the seat belt. Unless the front passenger fastens the belt, the light continues flashing.

If the vehicle speed rises above 15 km/h (9 mph) with the seat belt unfastened, the buzzer will sound for about 10 seconds. Then, if the seat belt is still unfastened, the buzzer will sound in a different tone for 20 more seconds. Even if the vehicle speed drops below 15 km/h (9 mph), the buzzer will continue to sound. To stop the buzzer, fasten the seat belt.

If luggage or other load is placed on the front passenger seat, depending on its weight and how it is placed on the seat, built-in sensors in the seat cushion may detect the pressure, causing the reminder light to flash and buzzer to sound.

(d) SRS Warning Light

The indicator comes on when the ignition key is turned to the "ON" position. It goes off after about 6 seconds. This means the SRS airbags and front seat belt pretensioners are operating properly.

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

GAUGES, METERS AND SERVICE REMINDER INDICATORS

If any of the following conditions occurs, this indicates a malfunction of the airbags or seat belt pretensioners. Contact your Lexus dealer as soon as possible.

- The light does not come on when the ignition key is turned to the "ON" position or remains on for more than 6 seconds or flashes.
- The light comes on or starts flashing while driving.

If the light stays on, it indicates that the SRS driver and front passenger airbags and/or front passenger occupant classification system, "AIRBAG ON" indicator light and "AIRBAG OFF" indicator light fail. If the light flashes, the SRS side and curtain shield airbags and/or seat belt pretensioners have a problem.

The SRS warning light and "AIRBAG OFF" indicator light will be illuminated if there is a malfunction in the front passenger occupant classification system.

(e) Traction Battery Warning Light

This light comes on in the following cases:

a. The traction battery voltage drops because the transmission is left in the "N" position.

If you put the transmission in the "P" position and the light goes off, the system is working properly.

b. The traction battery is discharged.

If the traction battery is discharged and the warning light comes on along with the "READY" light, stop your vehicle in a safe place and contact your Lexus dealer.

(f) Auxiliary Battery Discharge Warning Light

This light warns that the auxiliary battery charging system is malfunctioning.

If it comes on while you are driving, there is a problem somewhere in the charging system.

The hybrid system will continue to operate, however, until the auxiliary battery is discharged. Turn off the air conditioning, blower, radio, etc., and drive directly to the nearest Lexus dealer or repair shop.

GAUGES, METERS AND SERVICE REMINDER INDICATORS

(g) Malfunction Indicator Lamp

This lamp comes on when the ignition key is turned to the “ON” position and goes off when the “READY” light comes on. This means that the warning light system is operating properly.

If the lamp remains on, or the lamp comes on while driving, first check the followings.

- Empty fuel tank

If the fuel tank is empty, refuel immediately.

- Loose fuel tank cap

If the fuel tank cap is loose, securely tighten it.

These cases are temporary malfunctions. The malfunction indicator lamp will go off after taking several driving trips.

If the lamp does not go off even after several trips, contact your Lexus dealer as soon as possible.

If the fuel tank is not empty or the fuel tank cap is not loose...

- There is a problem somewhere in the hybrid system or warning light system itself.

Contact your Lexus dealer as soon as possible to service the vehicle.

Emissions Inspection and Maintenance (I/M) programs

Your vehicle may not pass a state emission inspection if the malfunction indicator lamp remains on. Contact your Lexus dealer to check your vehicle's emission control system and OBD (On-Board Diagnostics) system before taking your vehicle for the inspection.

See “Emissions inspection and maintenance (I/M) programs” on page 517.

GAUGES, METERS AND SERVICE REMINDER INDICATORS

(h) Master Warning Light

If the master warning light comes on, a message appears on the multi-information display. Depending on the conditions a warning tone may sound. (See “Warning messages” on page 102 for instructions.)

(i) Electric Power Steering System Warning Light

This light comes on when the power steering control system fails.



If this light comes on, take your vehicle to the Lexus dealer as soon as possible. In this case, you may feel the heavy steering wheel maneuvering. Drive your vehicle while gripping the steering wheel firmly.

(j) “ABS” Warning Light

The light comes on when the ignition key is turned to the “ON” position. If the anti-lock brake system function of the VDIM (vehicle dynamics integrated management) are working properly, the light turns off when the “READY” light comes on. Thereafter, if the function malfunctions, the light comes on again.

When the “ABS” warning light and the yellow brake system warning light are on, the anti-lock brake system function and the brake assist function of the VDIM do not operate. In this case the wheels may lock up during a sudden braking or when braking on slippery road surfaces. However, the brake system still operates conventionally.

When the “ABS” warning light is on and the yellow brake system warning light is off, the anti-lock brake system function of the VDIM does not operate so that the wheels may lock up during sudden braking or when braking on slippery road surfaces. However, the brake system still operates conventionally.

GAUGES, METERS AND SERVICE REMINDER INDICATORS

If any of the following conditions occurs, this indicates a malfunction somewhere in the components monitored by the warning light system. Contact your Lexus dealer as soon as possible to service the vehicle.

- The light does not come on when the ignition key is turned to the "ON" position.
- The light remains on when the "READY" light is on.
- The light comes on while you are driving.

A warning light turning on briefly during operation does not indicate a problem.

Either of the following conditions may occur, but does not indicate the malfunction:

- The light may stay on for about 60 seconds after the hybrid system is started. It is normal if it turns off after a while.
- Depressing the brake pedal repeatedly may turn on the light. It is normal if it turns off after a few seconds.



CAUTION

If the "ABS" warning light remains on together with the red brake system warning light, stop your vehicle immediately in a safe place and contact your Lexus dealer.

In this case, not only the anti-lock brake system function will fail but also the vehicle will become extremely unstable during braking.

(k) Open Door Warning Light

This light remains on until all the side doors and back door are completely closed.

Doors left open are shown on the multi-information display.

GAUGES, METERS AND SERVICE REMINDER INDICATORS

(l) Low Fuel Level Warning Light

This light comes on when the fuel level in the tank becomes nearly empty. Fill the tank as soon as possible.

On inclines or curves, due to the movement of fuel in the tank, the low fuel level warning light may come on earlier than usual.

(m) Key Reminder Buzzer

This buzzer acts as a reminder to remove the key when you open the driver's door with the ignition key in the "ACC" or "LOCK" position.

How to check all the service reminder indicators (except the low fuel level warning light and master warning light)

1. Apply the parking brake.
2. Open the door.

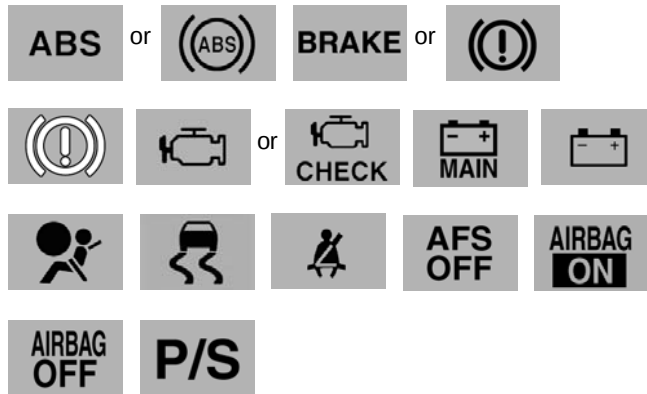
The following service reminder indicator should come on. It goes off when you close the door completely.



GAUGES, METERS AND SERVICE REMINDER INDICATORS

3. Turn the ignition key to the “ON” position.

The following service reminder indicators should come on.



The “AFS OFF” indicator light goes off after about 3 seconds.
The SRS warning light goes off after about 6 seconds.

4. Turn the ignition key to the “START” position briefly and firmly.

All of the service reminder indicators other than those listed below go off when the “READY” light comes on.

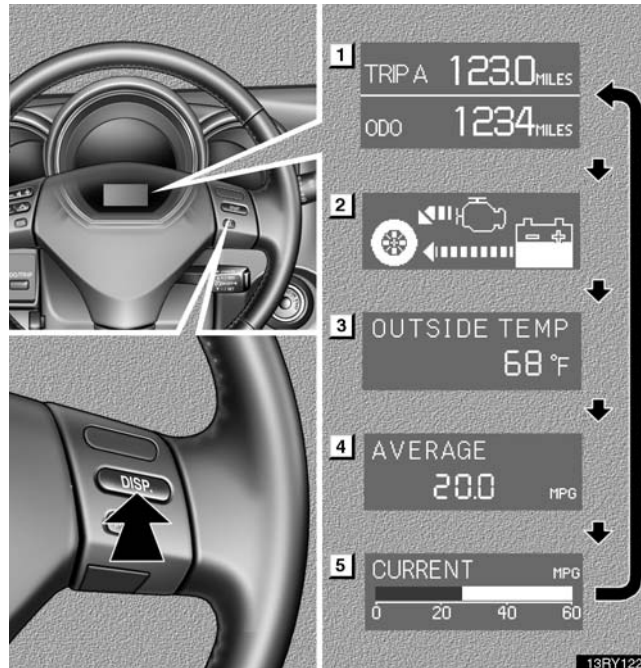


The driver's seat belt reminder light goes off when the driver's seat belt is fastened. The red brake system warning light goes off when the parking brake is released.

There may be the case that the red and yellow brake system warning lights and “ABS” warning light stay on for about 60 seconds after the “READY” light is on. It is normal if they go out after a while.

If any of the service reminder indicators or warning buzzers does not function as described above, have it checked by your Lexus dealer as soon as possible.

MULTI-INFORMATION DISPLAY



- **1** Odometer and trip meter (enlarged character)
- 2** Energy monitor
- 3** Outside temperature
- 4** Average fuel consumption
- 5** Current fuel consumption

The modes above are displayed when you push the “DISP.” button on the steering wheel with the ignition switch on. Each time you push the “DISP.” button, the display toggles through these modes.

In case your vehicle has a system malfunction or if there is some information to relate, a warning message appears on the display. See “Warning messages” on page 102 for details.

The displayed values of the fuel consumption indicate general driving conditions. Accuracy varies with driving habits and road conditions.

When the ignition switch is on, the last previously used mode just before the ignition switch is off will appear.

GAUGES, METERS AND SERVICE REMINDER INDICATORS

If the electrical power source has been disconnected from the multi-information display, the display will automatically be set to the initial mode.

When the instrument panel lights are turned on, the brightness of the display will be reduced.

You can adjust the brightness of the display. To adjust the brightness, see "Instrument panel light control" on page 117.



CAUTION

Be sure to adjust the display only when the vehicle is stopped.

(1) Odometer and trip meter

The odometer and trip meters appear on the display.

See "Odometer and trip meter" on page 99 for details.

(2) Energy monitor

The operating condition of the hybrid system appears on the display.

See "Energy monitor" on page 2 for details.

(3) Outside temperature ("OUTSIDE TEMP")

Outside temperature appears on the display.

The displayed temperature ranges from -30°C (-22°F) up to 50°C (122°F). If the temperature does not appear on the display or it shows "--", take your vehicle to your Lexus dealer.

(4) Average fuel consumption ("AVERAGE")

Average fuel consumption is calculated and displayed based on total driving distance and total fuel consumption.

The calculation is reset when the fuel consumption on the trip information is reset. See "Trip information (with navigation system)" on page 114 or "Trip information (with center display)" on page 112 for details.

GAUGES, METERS AND SERVICE REMINDER INDICATORS

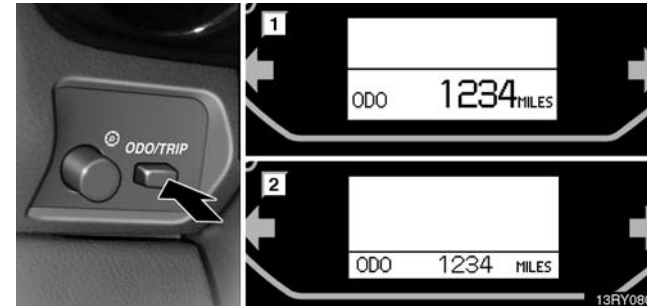
(5) Current fuel consumption (“CURRENT”)

The current fuel consumption is calculated and displayed based on distance and fuel consumption for 2 seconds.

Note that an accurate figure may not be shown in some cases.

Odometer and trip meter

1. Odometer only



- **1** Only odometer appears on the display.
- 2** When other mode is selected or warning message appears, odometer moves to the reduced lower display.

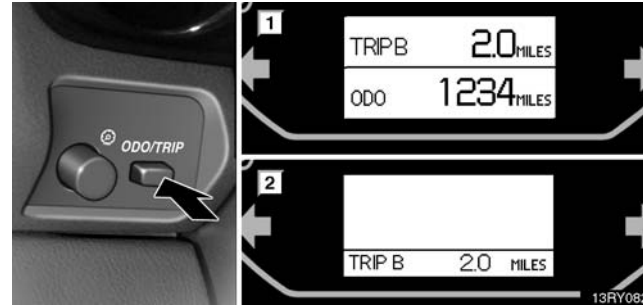
GAUGES, METERS AND SERVICE REMINDER INDICATORS

2. Odometer and trip meter A



- ▶ **1** Odometer and trip meter A appear on the display.
- ▶ **2** When other mode is selected or warning message appears, the trip meter A moves to the reduced lower display and odometer disappears.

3. Odometer and trip meter B



- ▶ **1** Odometer and trip meter B appear on the display.
- ▶ **2** When other mode is selected or warning message appears, the trip meter B moves to the reduced lower display and odometer disappears.

GAUGES, METERS AND SERVICE REMINDER INDICATORS

This meter displays the odometer and two trip meters. To change the display, push the “ODO/TRIP” button briefly. Each time you push the button, the display changes between 1 and 3 as shown on the table below.

Multi-information display mode	Odometer and trip meter mode	Reduced lower display
1	Odometer only	Odometer
2	Odometer and trip meter A	Trip meter A
3	Odometer and trip meter B	Trip meter B

The odometer records the total distance the vehicle has been driven. The twin trip meter records two different distances independently.

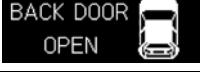
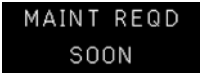
For example, you can use one meter to calculate the fuel economy and the other to measure the distance on each trip.

To reset the trip meter to zero, display the meter reading, push and hold the “ODO/TRIP” button.

The data of trip meters will be cancelled if the electrical power source is disconnected.

GAUGES, METERS AND SERVICE REMINDER INDICATORS

Warning messages

	MESSAGE	STATUS	ACTION
(1)		Driver's door is open.	Close the door.
		Front passenger's door is open.	Close the door.
		Right rear door is open.	Close the door.
		Left rear door is open.	Close the door.
		Back door is open.	Close the door.
(2)		Parking brake is not released.	Release the parking brake.
(3)		Oil change is nearly due.	Check engine oil.
(4)		Oil change is due.	Change engine oil.

GAUGES, METERS AND SERVICE REMINDER INDICATORS

	MESSAGE	STATUS	ACTION
(5)	LOW WASHER FLUID	Washer fluid level is low.	Add washer fluid.
(6)	HEAD LIGHT LEVELING	Automatic headlight leveling system malfunction is detected.	Take your vehicle to a Lexus dealer.
(7)	CHECK VSC SYSTEM	Malfunction of VSC function of the vehicle dynamics integrated management is detected.	Take your vehicle to a Lexus dealer.
(8)	LOW ENGINE OIL PRESSURE	Engine oil pressure is low.	Stop your vehicle and call a Lexus dealer.
(9)	WATER TEMP	Coolant temperature is too high.	Stop and check.
(10)	CHECK HYBRID SYSTEM	Hybrid system malfunction is detected.	Stop your vehicle and call a Lexus dealer.
(11)	CHECK AWD SYSTEM	All wheel drive system malfunction is detected.	Stop your vehicle and call a Lexus dealer.
(12)	MOONROOF OPEN	Moonroof is open.	Close the moonroof.

GAUGES, METERS AND SERVICE REMINDER INDICATORS

	MESSAGE	STATUS	ACTION
(13)	SHIFT TO P RANGE	Driver's door is opened when transmission is out of the "P" position with the hybrid system on.	Shift the transmission to the "P" position.
(14)	SHIFT TO P WHEN STARTING	Transmission is out of the "P" position when starting the hybrid system.	Shift the transmission to the "P" position when starting the hybrid system.
(15)	CLOSE FUEL LID	Fuel door is left open.	Close the fuel door.
(16)	CLEAN RADAR SENSOR	Radar sensor of dynamic laser cruise control is dirtied.	Clean the glass surface of the radar sensor.
(17)	CRUISE NOT AVAILABLE	Following distance control mode of dynamic laser cruise control is not available.	Turn the dynamic laser cruise control off.
(18)	CHECK CRUISE SYSTEM	Dynamic laser cruise control malfunction is detected.	Take your vehicle to a Lexus dealer.

GAUGES, METERS AND SERVICE REMINDER INDICATORS

(1)



These messages are to remind the driver if any of the doors are open.

If any of the doors are open with the ignition on, any one of the messages appears and the open door warning light comes on. The message specifies the door that is open. When the vehicle speed exceeds 5 km/h (3 mph), the master warning light flashes and a warning tone sounds.

If any one of the messages appears, stop the vehicle and close the door securely.

(2)

PARK BRAKE

This message is to remind the driver that the parking brake is not released.

When the vehicle speed exceeds 5 km/h (3 mph), the message appears, the master warning light flashes and a warning tone sounds.

If the message appears, stop the vehicle and release the parking brake.

(3)

MAINT REQD
SOON

(U.S.A. only)

This message is to remind the driver to change the engine oil. The message is a prior notice.

If the driving range after the previous oil change reaches 7200 km (4500 miles), the message appears for 15 seconds with the master warning light and warning tone when the ignition is on.

If the message appears, we recommend that you change the engine oil at the earliest opportunity depending on the driving and road conditions.

The system must be reset after the engine oil change. See following "Resetting the system" of (4) "MAINT REQD" for the procedure to reset the system.

GAUGES, METERS AND SERVICE REMINDER INDICATORS

(4)  (U.S.A. only)

This message is to remind the driver to change the engine oil.

If the driving range after the previous oil change reaches to 8000 km (5000 miles), the message appears with the master warning light and warning tone when the ignition is on. The message stays on with the ignition on.

If the message appears, change the engine oil as soon as possible.

The system must be reset after the engine oil change. See "Resetting the system" below for the procedure to reset the system.

Resetting the system

The system must be reset after the engine oil replacement. Reset the system by the following procedure.

1. Turn the ignition key to the "LOCK" position with the odometer reading shown.

For details, see "Odometer and trip meter" on page 99 in this Section.

2. Turn the ignition key to the "ON" position while holding down the "ODO/TRIP" button. A message "MAINT REQD RESET MODE" will appear on the display.

3. Hold down the button at least 5 seconds. A message "COMPLETE" will appear and a beep will sound.

(5) 

This message is to remind the driver that the washer fluid level is low.

If the washer fluid level is low, the message appears with the master warning light and warning tone when the ignition is on.

If the message appears, fill the washer tank as soon as possible. For instructions, see "Adding washer fluid" on page 593.

GAUGES, METERS AND SERVICE REMINDER INDICATORS

(6) **HEAD LIGHT
LEVELING**

This message is to warn the driver that the automatic headlight leveling system is malfunctioning.

If a malfunction of the automatic headlight leveling system is detected, the message appears with the master warning light and warning tone when the ignition is on.

If the message appears, have the vehicle checked by a Lexus dealer as soon as possible.

(7) **CHECK
VSC SYSTEM**

This message is to warn the driver that the vehicle stability control (VSC) function of the vehicle dynamics integrated management (VDIM) is malfunctioning.

If a malfunction is detected, the message appears with the master warning light and warning tone when the ignition is on.

If the message appears, the functions of VDIM listed below may not work properly. Have the vehicle checked by a Lexus dealer as soon as possible. However, as conventional braking operates when applied, there is no problem to continue your driving.

- Traction control function
- Vehicle stability control function

(8) **LOW ENGINE
OIL PRESSURE**

This message is to warn the driver that the engine oil pressure is too low.

If the engine oil pressure is too low, the message appears with the master warning light and warning tone when the ignition is on.

If the message appears, turn the hybrid system off as soon as possible and contact a Lexus dealer.

GAUGES, METERS AND SERVICE REMINDER INDICATORS

(9) WATER TEMP

This message is to warn the driver that the hybrid system is almost overheating.

If the coolant temperature is too high, the message appears with the master warning light and warning tone when the ignition is on.

If the message appears, stop the vehicle as soon as possible and check the engine compartment. For detailed instructions, see “If your vehicle overheats” on page 484.

Your vehicle may overheat during severe operating conditions, such as:

- Driving up a long hill on a hot day.
- Reducing speed or stopping after high speed driving.

NOTICE

- ***Do not remove the thermostat in the cooling system as this may cause the engine to overheat. The thermostat is designed to control the flow of coolant to keep the temperature of the engine within the specified operating range.***
- ***Continued driving with the message displayed could result in overheating of hybrid system.***

(10) CHECK HYBRID SYSTEM

This message is to warn the driver that the hybrid system is malfunctioning.

If a malfunction of the hybrid system is detected, the message appears with the master warning light and warning tone when the ignition is on.

If the message appears, stop the vehicle as soon as possible and contact a Lexus dealer.

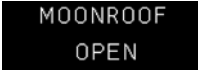
(11) CHECK AWD SYSTEM (All wheel drive models only)

This message is to warn the driver that the all wheel drive system is malfunctioning.

If a malfunction of all wheel drive system is detected, the message appears with the master warning light and warning tone when the ignition is on.

If the message appears, have the vehicle checked by a Lexus dealer as soon as possible.

GAUGES, METERS AND SERVICE REMINDER INDICATORS

(12)  MOONROOF
OPEN

This message is to remind the driver that the moonroof is open.

If the moonroof is open with the ignition off, the message appears with the master warning light and warning tone when the driver opens the door.

If the message appears, close the moonroof.

(13)  SHIFT TO
P RANGE

This message is to warn the driver that the transmission is not in the “P” position when leaving the vehicle.

If the transmission is not in the “P” position with the ignition on, the message appears with the master warning light and warning tone when the driver’s door is opened.

If the message appears, put the transmission in the “P” position.

(14)  SHIFT TO P
WHEN STARTING

This message is to remind the driver that the transmission is not in the “P” position when starting the vehicle.

If the transmission is not in the “P” position, the message appears with the master warning light and warning tone when you turn the ignition to “START”.

If the message appears, put the transmission in the “P” position and turn the ignition to “START” again. For the hybrid system starting procedure, see “How to start the hybrid system” on page 410.

GAUGES, METERS AND SERVICE REMINDER INDICATORS

(15)

CLOSE
FUEL LID

This message is to remind the driver that the fuel filler door is open.

The message appears with the master warning light and warning tone in the following cases.

1. When you start the vehicle with the fuel door left open after refueling.
2. When you leave the fuel door open for more than 30 minutes during refueling.

In case 1, stop the vehicle and close the fuel lid. In case 2, the internal valve in the fuel tank is closed. You must remove the fuel nozzle, tighten the fuel tank cap and close the fuel door. If refueling is not completed you must start refueling from the beginning.



CAUTION

Do not continue to refuel in case 2. Fuel may spray out of the fuel opening if you refuel the vehicle.

(16)

CLEAN
RADAR SENSOR

This message is to remind the driver that the radar sensor glass is dirtied.

If the radar sensor glass is tainted, the message appears with the master warning light and warning tone when the dynamic laser cruise control is on.

If the message appears, clean the sensor glass with a soft cloth.

GAUGES, METERS AND SERVICE REMINDER INDICATORS

(17)

CRUISE
NOT AVAILABLE

This message is to inform the driver that the following distance control mode of the dynamic laser cruise control is not available.

If the following distance control mode is not available, the message appears with the master warning light and warning tone when the dynamic laser cruise control is on in the conditions listed below.

- It is determined that it is difficult to make a measurement because of bad weather (such as rainy, foggy, or snowy weather)
- The wipers are operated at high or low speeds with the wiper lever in the "AUTO" position.
- Direct sunlight from the front

If the message appears, turn the cruise control off.

(18)

CHECK
CRUISE SYSTEM

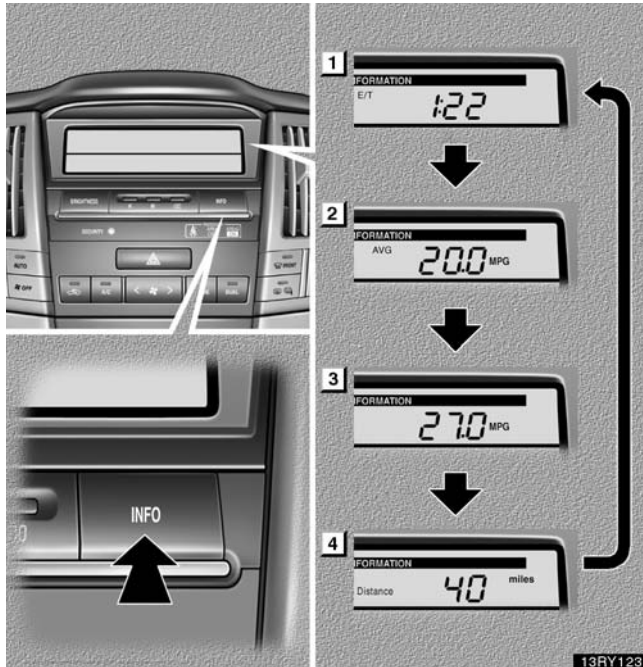
This message is to warn that the dynamic laser cruise control is malfunctioning.

If a malfunction of the dynamic laser cruise control is detected, the message appears with the master warning light, warning tone and "CRUISE" indicator light when the dynamic laser cruise control is on.

If the message appears, have the vehicle checked by a Lexus dealer.

GAUGES, METERS AND SERVICE REMINDER INDICATORS

TRIP INFORMATION (with center display)



- **1** *Driving time after the hybrid system is started*
- 2** *Average fuel consumption*
- 3** *Current fuel consumption*
- 4** *Trip distance*

The trip information is displayed when you push the “INFO” button with the ignition switch turned on.

Each time you push the “INFO” button, the display toggles through the information.

The displayed values in the trip information display indicate general driving conditions. Accuracy varies with driving habits and road conditions.

When the ignition switch is on, the last previously used mode is displayed just before the ignition switch is off will appear.

GAUGES, METERS AND SERVICE REMINDER INDICATORS

If the electrical power source has been disconnected from the cruise information display, the display will automatically be set to the initial mode.

When the instrument panel lights are turned on, the brightness of the display will be reduced.

You can adjust the brightness of the display. To adjust the brightness, see "Brightness control" on page 114.



CAUTION

Do not adjust the display while the vehicle is moving. Be sure to adjust the display only when the vehicle is stopped.

(1) Driving time ("E/T")

The elapsed time after the hybrid system is started is displayed.

When the system is started, driving time is counted from 0:00. Up to 11:59 (11 hours, 59 minutes) can be displayed. When the driving time exceeds 11:59, the counter returns to 0:00.

The calculation is reset when the ignition switch is turned off.

(2) Average fuel consumption ("AVG")

Average fuel consumption is calculated and displayed based on total driving distance and total fuel consumption.

The calculation is reset by pushing and holding the "INFO" button for about 1 second when the average fuel consumption is displayed.

(3) Current fuel consumption

The current fuel consumption is calculated and displayed.

Note that an accurate figure may not be shown in some cases.

(4) Trip distance ("Distance")

The trip distance is displayed.

Up to 6499 km or 6499 miles can be displayed. When the trip distance exceeds 6499 km or 6499 miles, the distance returns to 0 km or 0 mile.

The calculation is reset by pushing and holding the "INFO" button for about 1 second when the trip distance is displayed.

GAUGES, METERS AND SERVICE REMINDER INDICATORS

Brightness control



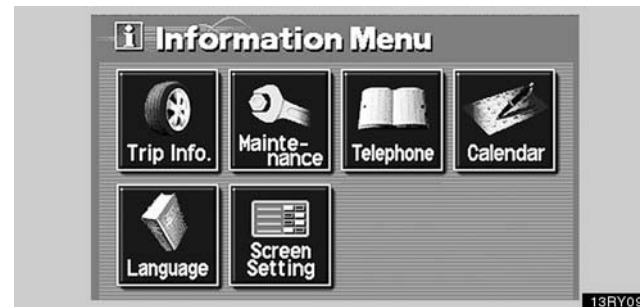
To adjust the brightness of the display light, push and release the "BRIGHTNESS" button until the desired brightness is obtained.

The brightness of the clock display, outside temperature display and air conditioning display can also be adjusted.

TRIP INFORMATION (with navigation system)



1. Push the "INFO" button to display the "Information Menu" screen.



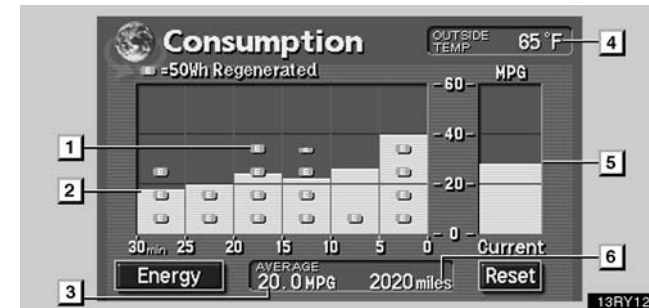
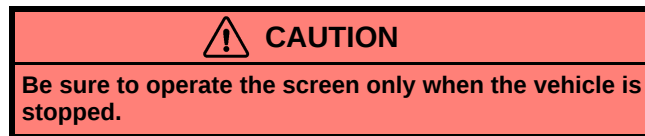
2. Touch the "Trip Info." switch on the screen.

Trip information appears on the screen.

GAUGES, METERS AND SERVICE REMINDER INDICATORS

When the instrument panel lights are turned on, the brightness of the screen will be reduced.

You can adjust the brightness of the screen. See the "Navigation System Owner's Manual" for the procedure.



► Consumption screen

- 1 Regenerated energy in the past 30 minutes
- 2 Fuel consumption in the past 30 minutes
- 3 Average fuel consumption
- 4 Outside temperature
- 5 Current fuel consumption
- 6 Trip distance

The information listed above is displayed when you touch the "Consumption" switch on the "Energy monitor" screen.

The displayed values on the screen indicate general driving conditions. Accuracy varies with driving habits and road conditions.

When the ignition switch is on, the last previously used mode displayed just before the ignition switch is off will appear.

If the electrical power source is disconnected from the navigation system screen, the screen will automatically be set to the initial mode.

GAUGES, METERS AND SERVICE REMINDER INDICATORS

(1) Regenerated energy in the past 30 minutes

The regenerated energy in the past 30 minutes is indicated with symbols.

One symbol indicates 50 Wh. Up to 4 symbols will be shown. The energy of 50 Wh illuminates a 50 W bulb for an hour.

(2) Fuel consumption in the past 30 minutes

Fuel consumption in the past 30 minutes is displayed.

(3) Average fuel consumption ("AVERAGE")

Average fuel consumption is calculated and displayed based on total driving distance and total fuel consumption.

The calculation is reset by touching the "Reset" switch. The trip distance is also reset.

(4) Outside temperature ("OUTSIDE TEMP")

The outside temperature is displayed.

The displayed temperature ranges from -30°C (-22°F) up to 50°C (122°F). If the temperature does not appear or it shows "--", take your vehicle to your Lexus dealer.

The outside temperature is also displayed on the "Energy Monitor" screen.

(5) Current fuel consumption ("Current")

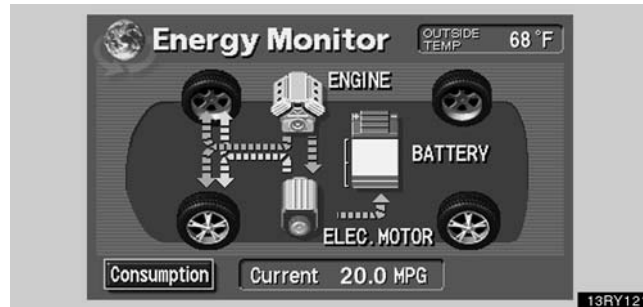
The current fuel consumption is calculated and displayed based on distance and fuel consumption.

(6) Trip distance

The trip distance is displayed.

The calculation is reset by touching the "Reset" switch. The average fuel consumption is also reset.

Up to 6499 km or 6499 miles can be displayed. When the trip distance exceeds 6499 km or 6499 miles, the distance returns to 0 km or 0 mile.



► **Energy Monitor screen**

Touching the “Energy” switch turns on the “Energy Monitor” that displays the hybrid system operating condition.

The arrows on the screen indicates the movement of the energy. See “Energy monitor” on page 2 for the representative screen.

The segment of the battery on the screen indicates the status of the traction battery. See “Traction battery status” on page 6 for details.

INSTRUMENT PANEL LIGHT CONTROL



To adjust the brightness of the instrument panel lights, turn the knob.

With the knob turned fully clockwise, the intensity of the instrument panel lights will not be reduced when the headlight switch is on.

If the instrument panel light control knob is turned fully counterclockwise, the foot lights will turn off.

SECTION **1** – 4

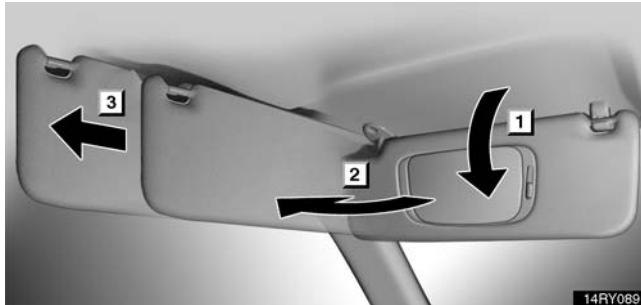
INSTRUMENTS AND CONTROLS

Interior equipment

Sun visors	120
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Clock	125
Outside temperature display	126
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Garage door opener	133
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Auxiliary boxes	140
Auxiliary box and grocery bag hooks	141
Luggage cover	142
Floor mat	146
Tie-down hooks	147

INTERIOR EQUIPMENT

SUN VISORS



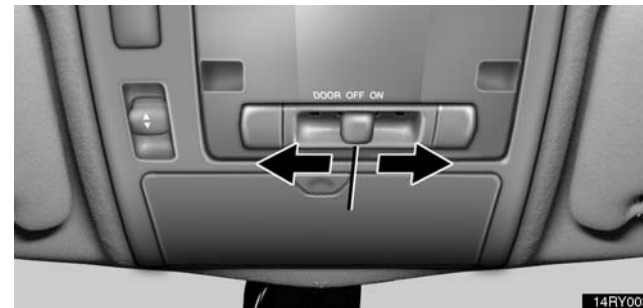
To block out glare, move the sun visor as shown.

- 1** To block out glare from the front, swing the sun visor down.
- 2** To block out glare from the side, remove the sun visor from the hook and swing it to the side.
- 3** To block out glare coming obliquely from behind you, slide the visor backwards.

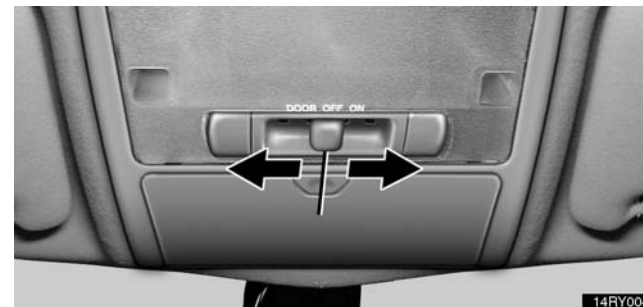
At this position, the vanity light does not come on.

INTERIOR LIGHTS

Front



► *Vehicles with moonroof*



► *Vehicles without moonroof*

To turn on the interior light, slide the switch.

The interior light switch has the following positions:

“ON” — Keeps the light on all the time.

“OFF” — Turns the light off.

“DOOR” — Turns the light on when any of the side doors or back door is opened. The light goes off when all the side doors and back door are closed. For details, see “Illuminated entry system” on page 123.

Rear



To turn on the interior light, slide the switch.

The interior light switch has the following positions:

“ON” — Keeps the light on all the time.

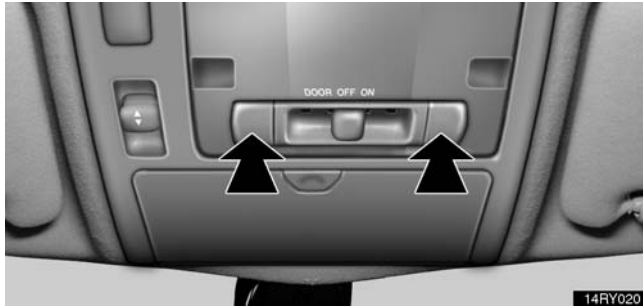
“OFF” — Turns the light off.

“DOOR” — Turns the light on when any of the side doors or back door is opened. The light goes off when all the side doors and back door are closed. For details, see “Illuminated entry system” on page 123.

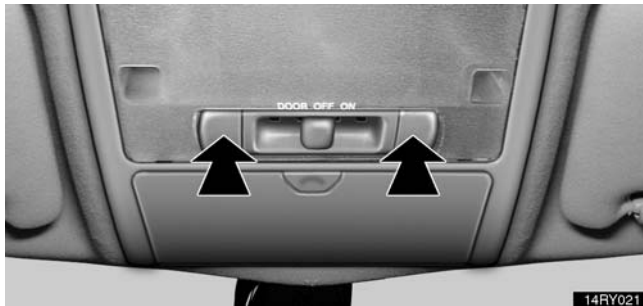
INTERIOR EQUIPMENT

PERSONAL LIGHTS

To turn on the personal light, push the switch. To turn it off, push the switch again.

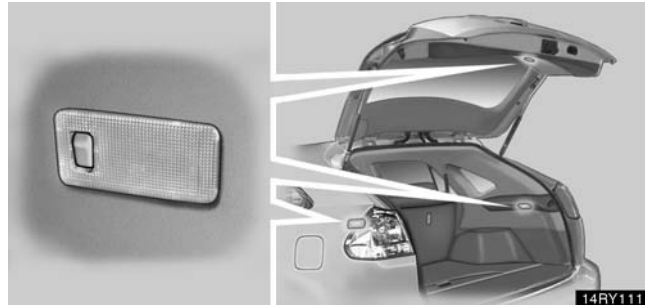


► *Vehicles with moonroof*



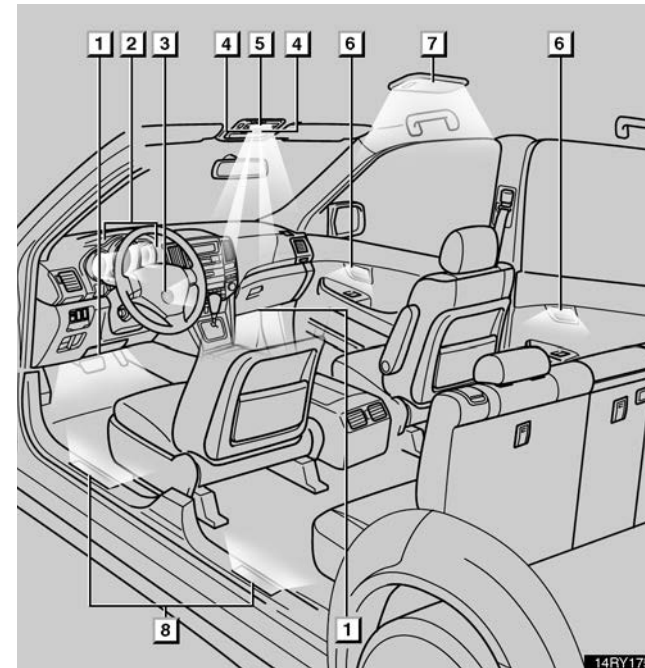
► *Vehicles without moonroof*

LUGGAGE COMPARTMENT LIGHTS



To turn on the luggage compartment light, open the back door and push the switch. The light goes off when the back door is closed.

ILLUMINATED ENTRY SYSTEM



INTERIOR EQUIPMENT

- | |
|---|
| 1 |
|---|

Foot lights (on some models)

2

Meter ring light

3

Ignition switch light

4

Center console spot lights

5

Front interior light (with the “DOOR” position)

6

Inside door handle lights (on some models)

7

Rear interior light (with the “DOOR” position)

8

Scuff plate lights (on some models)

All of the lights except the center console spot lights and meter ring light will come on when any of the side doors are opened.* After all the doors are closed, the lights remain on for about 15 seconds before fading out.**

NOTE:

** The operating condition can be changed.*

*** The duration of lighting can be changed.*

Ask your Lexus dealer for details.

However, in the following cases, the lights go out immediately:

- All of the lights except the center console spot lights and meter ring light — All the side doors and back door are locked.
- Ignition switch light, front interior light, rear interior light and scuff plate lights — All the side doors are closed and the ignition key is in the “ACC” or “ON” position.

When any of the side doors is unlocked, all of the lights except the center console spot light and meter ring light will come on and remain on for about 15 seconds before fading out.

To prevent the auxiliary battery from being discharged, all of the lights will automatically turn off when the ignition key is removed and the door is left opened for about 20 minutes.

Ignition switch light, front interior light, rear interior light and scuff plate lights

The ignition switch light, front interior light, rear interior light and scuff plate lights also come on and remain on for about 15 seconds before fading out when the ignition switch is turned to the “LOCK” position.

Foot lights and inside door handle lights

The foot lights and inside door handle lights also come on when the ignition switch is in the "ON" position with the selector lever in the "P" position. When the selector lever is moved out of the "P" position, the intensity of the foot lights and inside door handle lights will be reduced.*

NOTE:

* The intensity of the foot lights and inside door handle lights can be changed.

Ask your Lexus dealer for details.

When you turn the hybrid system off, the lights remain on for about 15 seconds before fading out.

When the instrument panel light knob is turned fully counterclockwise, the foot lights will turn off.

Center console spot lights

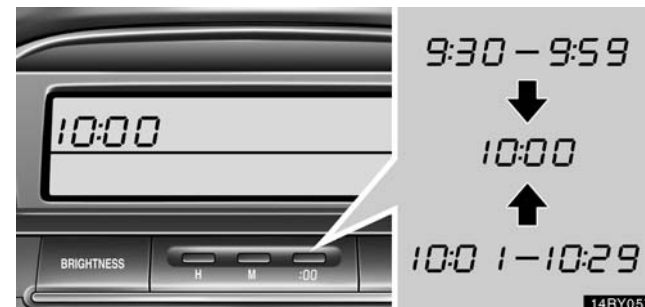
The center console spot lights come on when the ignition switch is in the "ACC" or "ON" position.

Meter ring light

The meter ring light comes on when the ignition switch is in the "ON" position.

The light also comes on and remains on for about 15 seconds before fading out when the driver's door is opened. However, if the driver's door is opened when you turn the hybrid system off, the light will not come on.

CLOCK



The digital clock indicates the time with the ignition key at the "ACC" or "ON" position. To reset the hour, press the "H" button. To reset the minutes, press the "M" button. To adjust the time to the nearest hour, press the ":00" button.

For example, if the ":00" button is pressed when the time is between 9:30 — 9:59 or between 10:01 — 10:29, the time will change to 10:00.

When the instrument panel lights are turned on, the brightness of the display will be reduced.

INTERIOR EQUIPMENT

You can adjust the brightness of the display. To adjust the brightness, see "Brightness control" on page 114.

If the electrical power source has been disconnected from the clock, the time display will automatically be set to 1:00 (one o'clock).

OUTSIDE TEMPERATURE DISPLAY



This display shows the outside temperature when the ignition switch is on.

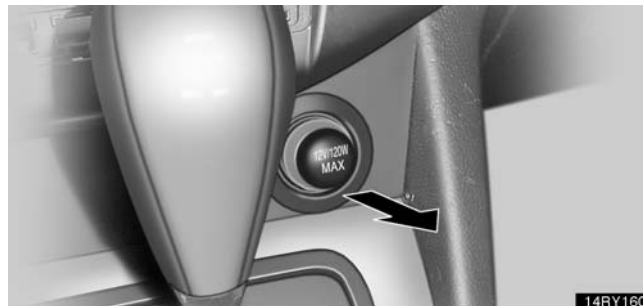
The displayed temperature ranges from -30°C (-22°F) up to 50°C (122°F). If the temperature does not appear on the display or it shows "--", take your vehicle to your Lexus dealer.

When the instrument panel lights are turned on, the brightness of the display will be reduced.

You can adjust the brightness of the display. To adjust the brightness, see "Brightness control" on page 114.

POWER OUTLETS

12 VDC



► *On the center cluster*



► *On the tray under the rear console box*



► *In the luggage compartment*

The power outlets are designed for power supply for car accessories.

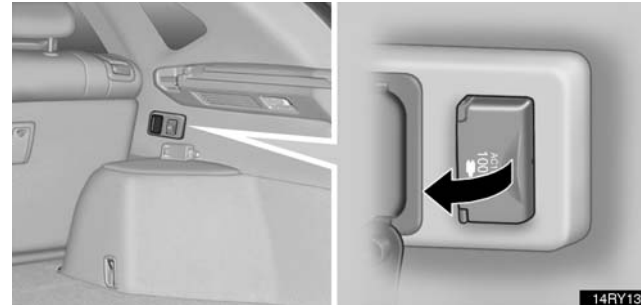
The ignition key must be in the "ACC" or "ON" position for the power outlets to be used.

INTERIOR EQUIPMENT

NOTICE

- *To prevent the fuse from being blown, do not use the electricity over the total vehicle capacity of 12V/120W (all the outlets together).*
- *To prevent the auxiliary battery from being discharged, do not use the power outlets longer than necessary when the hybrid system is not started.*
- *Close the power outlet lids when the power outlets are not in use. Inserting anything other than an appropriate plug that fits the outlet, or allowing any liquid into the outlet may cause electrical failure or short circuits.*

115 VAC



This power outlet is designed for use as a power supply for the audio device connected to the input terminal adapter.

The key must be in the "ON" position for the power outlet to be used.

The maximum capacity for this power outlet is 115 VAC/100W. If you attempt to use an appliance that requires more than 115 VAC or 100W, the protection circuit will activate and cut the power supply. The power supply will restart automatically when you use an appliance that operates within the 115 VAC/100W limits.



► Main switch

To use the power outlet, push the main switch on the instrument panel.

An indicator light will illuminate to indicate that the power outlet is ready for use.

Push the main switch once again to turn the power outlet off. When the power outlet is not in use, make sure that the main switch is turned off.

NOTICE

- To prevent the auxiliary battery from being discharged, do not use the power outlet longer than necessary when the hybrid system is not started.

- Close the power outlet lid when the power outlet is not in use. Inserting a foreign object other than the appropriate plug that fits the outlet may cause electrical failure or short circuit.

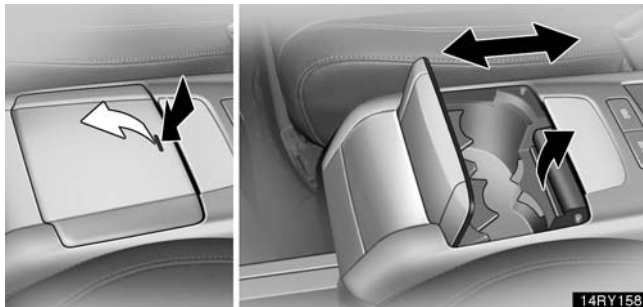
The power outlet is not designed for the following electric appliances even though their power consumption is under 115 VAC/100W. These appliances may not operate properly.

- **Appliances with high initial peak wattage:** Cathode-ray tube type televisions, compressor-driven refrigerators, electric pumps, electric tools, etc.
- **Measuring devices which process precise data:** Medical equipment, measuring instruments, etc.
- **Other appliances requiring an extremely stable power supply:** Microcomputer-controlled electric blankets, touch sensor lamps, etc.

Certain electrical appliances may cause radio noise.

REAR CONSOLE BOX

Sliding the rear console box



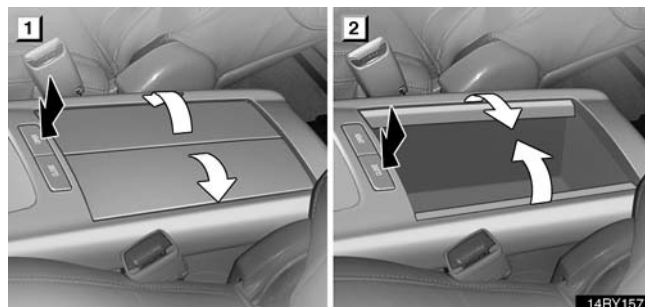
To slide the rear console box:

1. Open the cupholder lid in the front part of the rear console box.
2. Slide the rear console box forward or backward while gripping the lock release lever in the cupholder.
3. Release the lock release lever after sliding the rear console box to the desired position. Then make sure it is securely locked in position.

CAUTION

- Do not slide the rear console box while the vehicle is moving. Doing so may cause the driver to mishandle the vehicle and an accident may occur resulting in death or serious injuries.
- Be careful not to get hands or feet pinched between the rear console box and the center cluster or rear seat.
- Be careful not to hit any passengers with the rear console box while sliding it.
- After sliding the rear console box, make sure it is securely locked in position.

Using the rear console box



► **1** *Open*

2 *Close*

To open the rear console box, push the “OPEN” button.

The rear console box light comes on when the tail lights are turned on.

To close the rear console box, push the “CLOSE” button.



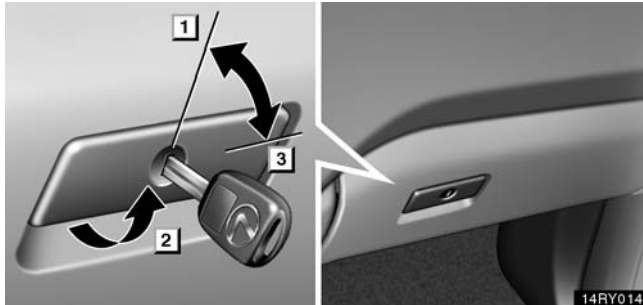
To remove the adapter tray inside the box, pull it up.

CAUTION

To reduce the chance of injury in case of an accident or a sudden stop, always keep the rear console box closed while driving.

INTERIOR EQUIPMENT

GLOVE BOX



► **1** *Unlock* **2** *Open* **3** *Lock*

To open the glove box door, pull the lever. To lock the glove box door, insert the master key and turn it clockwise.

With the tail lights on, the glove box light will come on when the glove box door is open.

The power back door off switch is installed inside the glove box. See page 49 for further information.

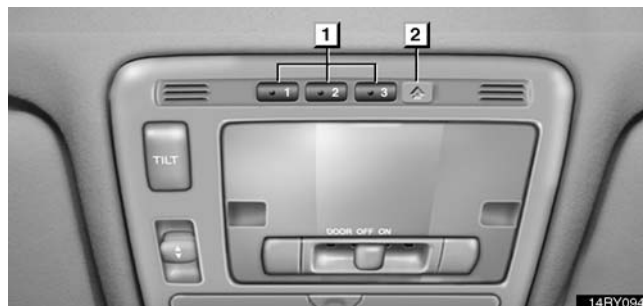
CAUTION

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

GARAGE DOOR OPENER

The garage door opener (**HomeLink® Universal Transceiver**) is manufactured under license from HomeLink® and can be programmed to operate garage doors, gates, entry doors, door locks, home lighting systems, and security systems, etc.

(a) Programming the HomeLink®



► **1 Buttons** **2 Indicator light**

The HomeLink® in your vehicle has 3 buttons and you can store one program for each button.

To ensure correct programming into the HomeLink®, install a new battery in the hand-held transmitter prior to programming.

The battery side of the hand-held transmitter must be pointed away from the HomeLink® during the programming process.

For Canadian users, follow the procedure in “Programming an entrance gate/programming all devices in the Canadian market”.

1. Decide which of 3 HomeLink® buttons you want to program.
2. Place your hand-held garage transmitter 25 to 75 mm (1 to 3 in.) away from the surface of the HomeLink®.

Keep the indicator light on the HomeLink® in view while programming.

3. Simultaneously press and hold the hand-held garage transmitter button along with the selected HomeLink® button.
4. When the indicator light on the HomeLink® changes from a slow to a rapid flash after 20 seconds, you can release both buttons.
5. Test the operation of the HomeLink® by pressing the newly programmed button. If programming a garage door opener, check to see if the garage door opens and closes.

INTERIOR EQUIPMENT

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

6. Repeat steps 2 through 5 for each remaining HomeLink[®] button to program another device.

Programming a rolling code system

If your device is “Rolling Code” equipped, it is necessary to follow steps 1 through 4 under the heading “Programming the HomeLink[®]” before proceeding with the steps listed below.

1. Locate the “training” button on the ceiling mounted garage door opener motor. The exact location and color of the button may vary by brand of garage door opener. Refer to the owner’s guide supplied by the garage door opener manufacturer for the location of this “training” button.

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

Following this step, you have 30 seconds in which to initiate step 3 below.

3. Press and release the vehicle’s programmed HomeLink[®] button twice. The garage door may open. If the door does open, the programming process is complete. If the door does not open, press and release the button a third time. This third press and release will complete the programming process by opening the garage door.

The ceiling mounted garage door opener motor should now recognize the HomeLink[®] unit and be able to activate the garage door up/down.

4. Repeat steps 1 through 3 for each remaining HomeLink[®] button to program another rolling code system.

Programming an entrance gate/programming all devices in the Canadian market

1. Decide which of the 3 HomeLink[®] buttons you want to program.

2. Place your hand-held gate/device transmitter 25 to 75 mm (1 to 3 in.) away from the surface of the HomeLink[®].

Keep the indicator light on the HomeLink[®] in view while programming.

3. Press and hold the selected HomeLink[®] button.

4. Continuously press and release (cycle) the hand-held gate/device transmitter button every two seconds until step 5 is complete.
5. When the indicator light on the HomeLink[®] changes from a slow to a rapid flash after 20 seconds, you can release both buttons.
6. Test the operation of the HomeLink[®] by pressing the newly programmed button. Check to see if the gate/device operates correctly.
7. Repeat steps 1 through 6 for each remaining HomeLink[®] button to program another device.

Programming other devices

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

Reprogramming a button

Individual HomeLink[®] buttons cannot be erased, however, to reprogram a single button, follow the procedure "Programming the HomeLink[®]".

(b) Operating the HomeLink[®]

To operate the HomeLink[®], press the appropriate HomeLink[®] button to activate the programmed device. The HomeLink[®] indicator light should come on. The HomeLink[®] continues to send the signal for up to 20 seconds as long as the button is pressed.

(c) Erasing the entire HomeLink[®] memory (all three programs)

To erase all previously programmed codes at one time, press and hold down the 2 outside buttons for 20 seconds until the indicator light flashes.

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

INTERIOR EQUIPMENT



CAUTION

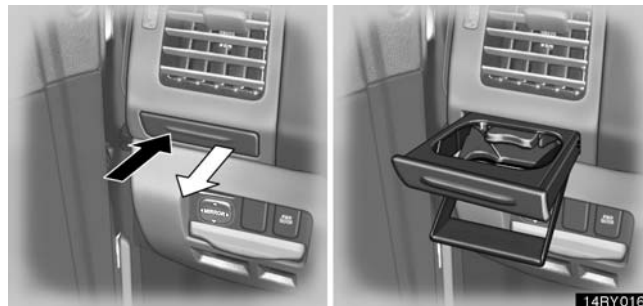
- When programming the HomeLink® Universal Transceiver, you may be operating a garage door or other device. Make sure people and objects are out of the way of the garage door or other device to prevent potential harm or damage.
- Do not use this HomeLink® Universal Transceiver with any garage door opener that lacks the safety stop and reverse feature as required by federal safety standards. (This includes any garage door opener model manufactured before April 1, 1982.) A garage door opener which cannot detect an object (signaling the door to stop and reverse), does not meet current federal safety standards. Using a garage door opener without these features increases risk of serious injury or death.

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

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

CUPHOLDERS

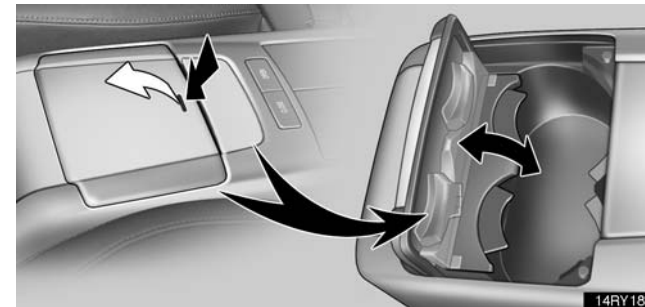
Front



► *On the instrument panel*

To use the cupholder, push in the cupholder portion located on the instrument panel.

The cupholder is designed for holding cups or drink-cans securely.



► *In front of the rear console box*

To use the cupholder, push the cupholder lid.

The cupholder is designed for holding cups or drink-cans securely.

The cupholder can be adjusted to the size of the cups by altering the arm position.

The cupholder light comes on when the tail lights are turned on.

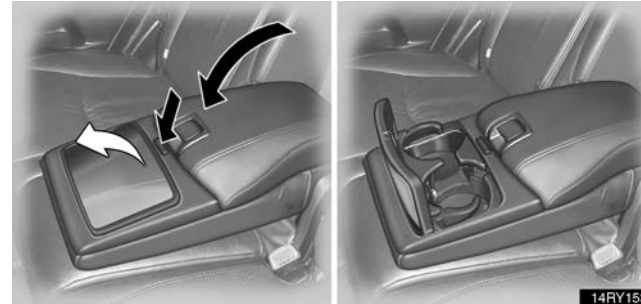
INTERIOR EQUIPMENT



CAUTION

- Do not place anything else other than cups or drink-cans in the cupholder, as such items may be thrown about in the compartment and possibly injure people in the vehicle during sudden braking or in an accident.
- To reduce the chance of injury in case of an accident or sudden stop while driving, keep the cupholder closed when not in use.

Rear



► *Rear seat armrest*

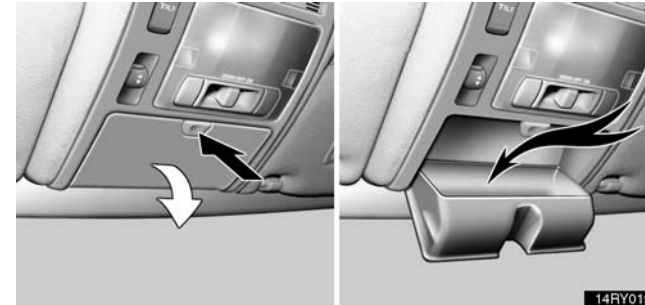
To use the cupholder, pull down the rear seat armrest and push the button on the armrest.

The cupholder is designed for holding cups or drink-cans securely.

! CAUTION

- Do not place anything else other than cups or drink-cans on the cupholder, as such items may be thrown about in the compartment and possibly injure people in the vehicle during sudden braking or in an accident.
- To reduce the chance of injury in case of an accident or sudden stop while driving, keep the cupholder closed when not in use.

OVERHEAD CONSOLE BOX



To use the overhead console box, push the button.

! CAUTION

- To reduce the chance of injury in case of an accident or a sudden stop, always keep the overhead console box closed while driving.
- Do not place any object heavier than 100 g (0.22 lb.) in it. Heavier objects may cause the box to open and the contents to fly out resulting in injuries.

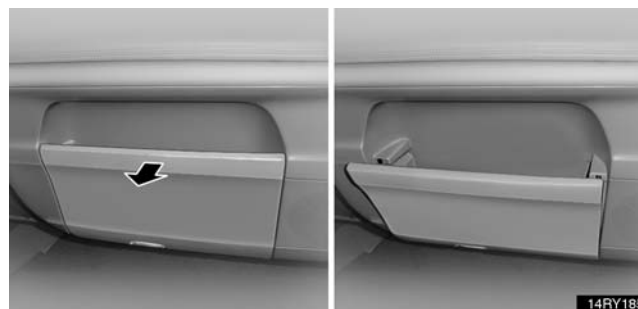
INTERIOR EQUIPMENT

NOTICE

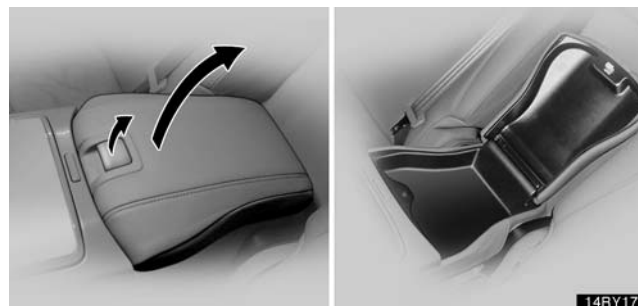
During hot weather, the interior of the vehicle becomes very hot. Do not leave anything flammable or deformable such as a lighter, glasses, etc. inside.

AUXILIARY BOXES

To use the auxiliary boxes, open as shown in the following illustrations.



► On the inner side of the front doors

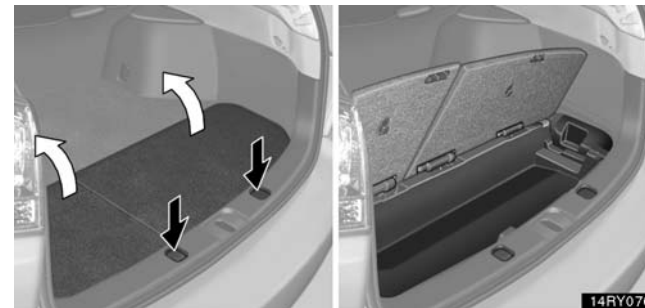


► Rear seat armrest

 CAUTION

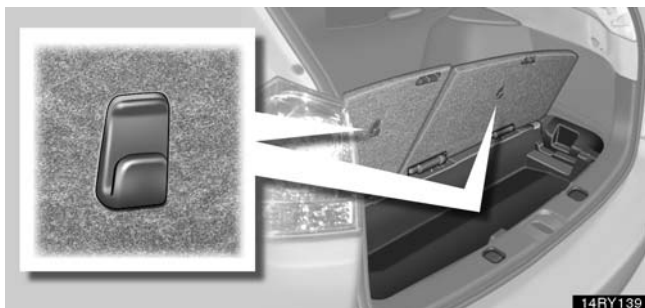
To reduce the chance of injury in case of an accident or a sudden stop, always keep the auxiliary box closed while driving.

AUXILIARY BOX AND GROCERY BAG HOOKS



To use the auxiliary box, open it as shown above.

INTERIOR EQUIPMENT



This auxiliary box is equipped with grocery bag hooks.

These hooks are designed for hanging things like grocery bags.



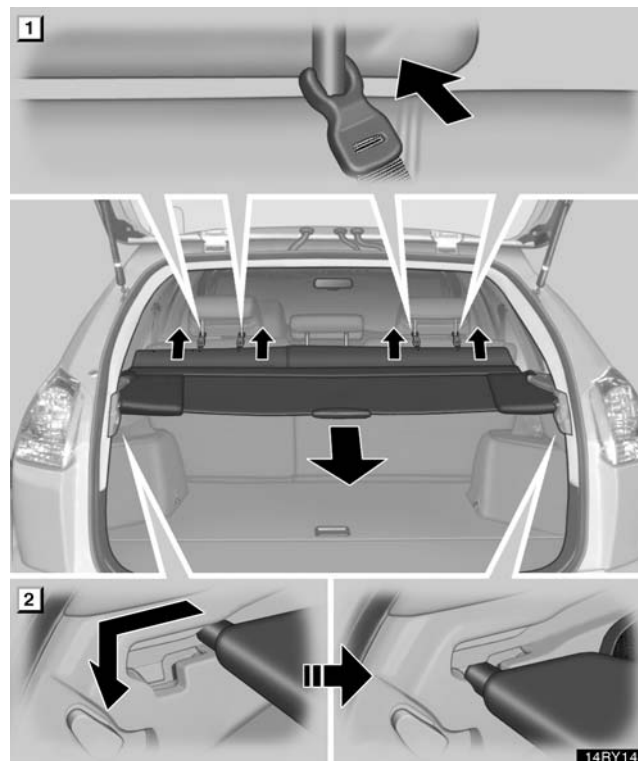
CAUTION

Except when using the grocery bag hooks — To reduce the chance of injury in case of an accident or a sudden stop, always keep the auxiliary box closed while driving.

NOTICE

To prevent damage to the hooks, do not hang any object heavier than 2 kg (4 lb.) on them.

LUGGAGE COVER



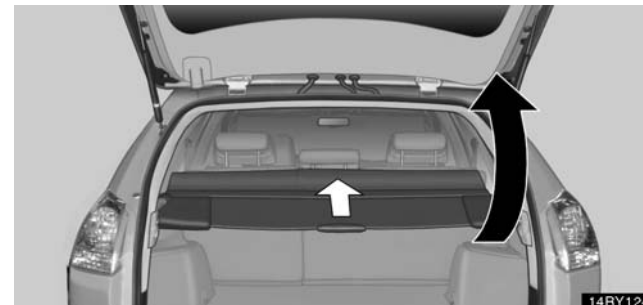
To use the luggage cover:

- 1** Attach the front hooks of the luggage cover to the head restraints.
- 2** Pull out the rear luggage cover and hook it onto the anchors.

CAUTION

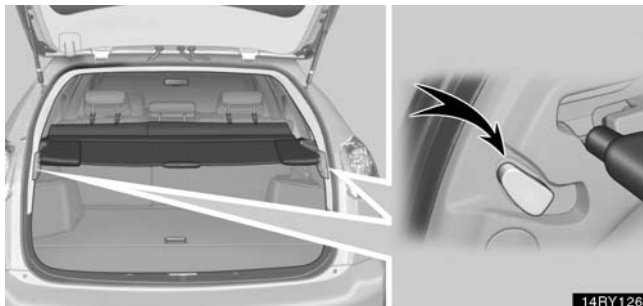
Do not place anything on the luggage cover. Such items may be thrown about and possibly injure people in the vehicle during sudden braking or a collision.

Automatic retract function

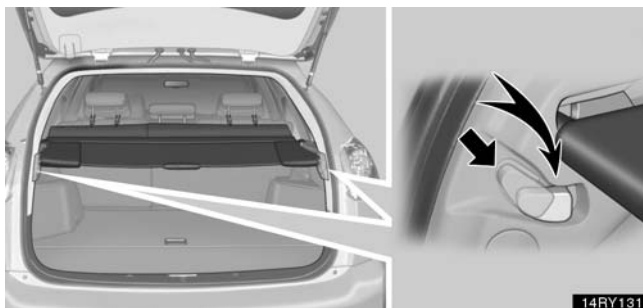


The rear luggage cover is retracted automatically when the back door is opened.

INTERIOR EQUIPMENT



► *Active position*



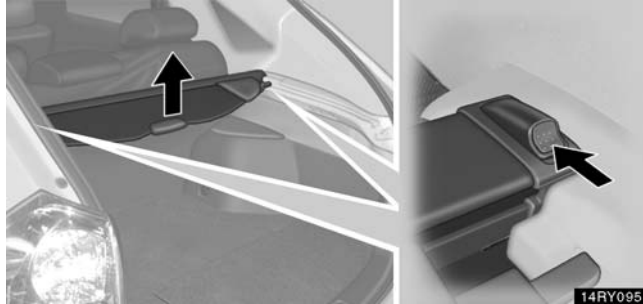
► *Inactive position*

To activate the automatic retract function, place the knobs in the active position.

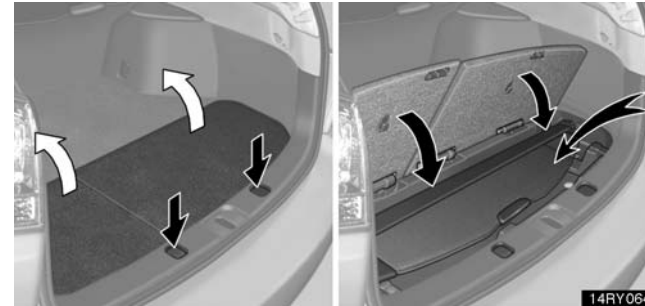
If you do not want to activate the automatic retract function, push the knobs to place the inactive position while pulling the luggage cover toward you.

To reactivate the automatic retract function, push the knobs again to return them to the active position.

Removing luggage cover



To remove the luggage cover, lift it up after pushing forward the lock release knobs on both sides.

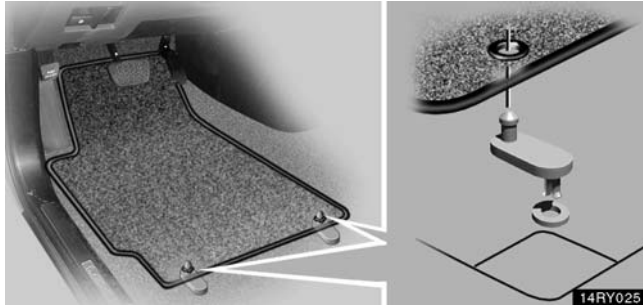


You can stow the luggage cover in the auxiliary box in the luggage compartment as shown in the illustration.

After removing the luggage cover, stow it in the auxiliary box or place it somewhere other than the passenger compartment. This will prevent passengers from being injured in the event of a sudden stop or accident.

INTERIOR EQUIPMENT

FLOOR MAT



Use a floor mat of the correct size.

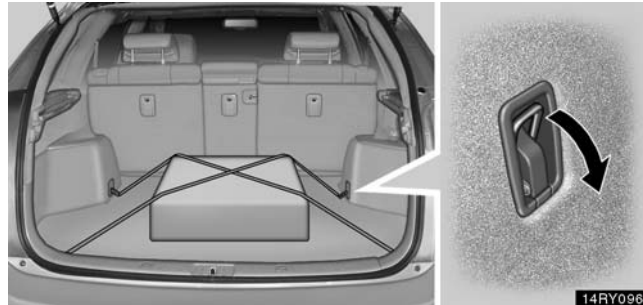
If the floor carpet and floor mat have 2 holes, then they are designed for use with locking clips. Fix the floor mat with locking clips into the holes in the floor carpet.



CAUTION

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

TIE-DOWN HOOKS



To secure your luggage, use the tie-down hooks as shown above.

See "Stowage precautions" on page 476 for precautions when loading luggage.

NOTICE

Do not use the anchor brackets on the back of the rear seatback instead of the tie-down hooks.

SECTION 1 – 5

INSTRUMENTS AND CONTROLS

Exterior equipment

Hood	150
Fuel tank cap	151
Moonroof	154
Roof luggage carrier	158

EXTERIOR EQUIPMENT

HOOD



1. To open the hood, pull the hood lock release lever under the driver-side instrument panel. The hood will spring up slightly.



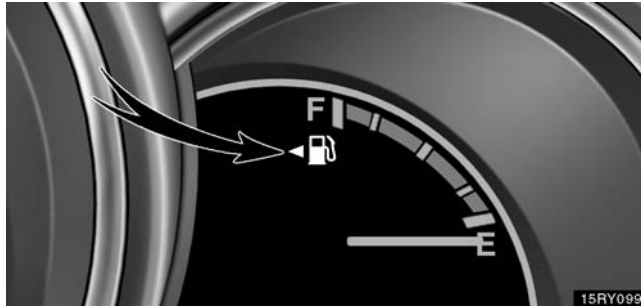
2. Insert your fingers under the hood, push up the auxiliary catch lever and lift the hood.

Before closing the hood, check to see that you have not forgotten any tools, rags, etc. Then lower the hood and make sure it locks.

CAUTION

Before driving, be sure that the hood is closed and securely locked. Otherwise, the hood may open unexpectedly while driving and an accident may occur.

FUEL TANK CAP

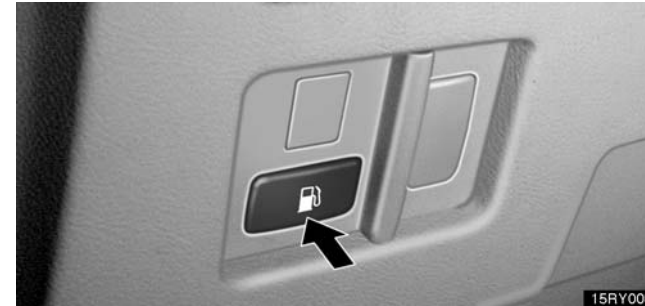


This indicates that the fuel filler door is on the left side of your vehicle.

To refuel your vehicle, turn the hybrid system off.

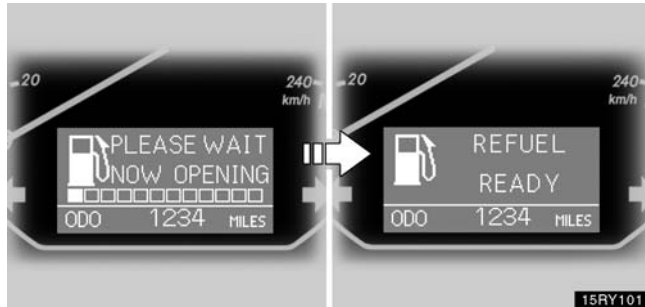
CAUTION

Do not smoke, cause sparks or allow open flames when refueling. The fumes are flammable.



1. To open the fuel filler door, push the switch.

EXTERIOR EQUIPMENT



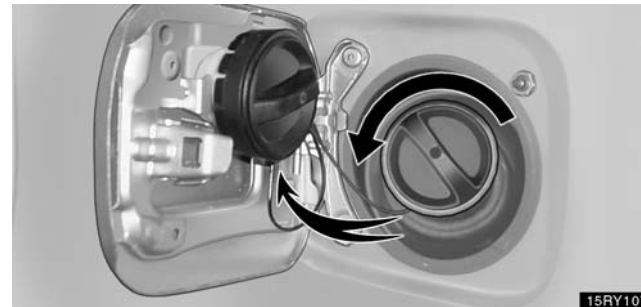
If the pressure in the fuel tank is high, a message “PLEASE WAIT NOW OPENING” will appear on the multi-information display. It may take up to 10 seconds if the internal pressure is high. The segments in the display decrease to indicate the time left.

When the pressure lowers, a message “REFUEL READY” will appear and the fuel filler door will open.



CAUTION

When opening the cap, do not remove the cap quickly. In hot weather, fuel under pressure could cause injury by spraying out of the filler neck if the cap is suddenly removed.



2. Turn the cap slowly counterclockwise and remove it. The removed cap can be stored on the backside of the fuel filler door.

It is not unusual to hear a slight swoosh when the cap is opened.

When reinstalling, turn the cap clockwise until you hear a click.

If the cap is not tightened securely, the malfunction indicator lamp will come on. Make sure the cap is tightened securely. The indicator lamp will go off after driving the vehicle several times. If the indicator lamp does not go off, contact your Lexus dealer as soon as possible.

If you leave the fuel filler door open and start the hybrid system, a message “CLOSE FUEL LID” will appear. Make sure the fuel filler door is closed.

 CAUTION

- Make sure the cap is installed securely to prevent fuel spillage in the event of an accident.
- Use only a genuine Lexus fuel tank cap for replacement. It is designed to regulate fuel tank pressure.

NOTICE

Finish refueling within 30 minutes. If more than 30 minutes passes, the internal valve closes. In this condition, fuel may spill out if you continue to refuel the vehicle. About 5 minutes after the valve is closed, a message "CLOSE FUEL LID" will appear on the display. To refuel the vehicle again, tighten the fuel tank cap and close the fuel filler door, and then push the fuel filler door opener switch again.

In case the opener is not actuated

If the opener is not actuated, contact your Lexus dealer to service the vehicle. If you must refuel your vehicle, you can open the fuel filler door manually as instructed below. The system to lower internal pressure may not be functioning so you must turn the cap slowly with releasing the pressure. In addition, fuel may spill out during refueling. Fill the fuel tank carefully and slowly.

 CAUTION

When opening the cap, do not remove it quickly. The fuel may spray out of the filler opening if the cap is suddenly removed.

EXTERIOR EQUIPMENT



1. Open the left side auxiliary box in the luggage compartment.

2. Pull the manual lock release tab.

The fuel filler door will open.

3. Turn the cap slowly counterclockwise.

You may hear a slight swoosh when you remove the cap.

MOONROOF



► **1 Open**

2 Close

To slide open the moonroof, push the slide control switch toward the back. The moonroof will open and stop partway 45 mm (1.8 in.) from the fully opened position. When you push the switch once again, the moonroof will fully open. To stop partway, push either side of the slide control switch.

As driving with the moonroof opened fully will cause wind throbs, we recommend you to drive with the moonroof partway 45 mm (1.8 in.) from the fully opened position.

EXTERIOR EQUIPMENT

The sunshade can be opened or closed manually. However, if you open the moonroof, the sunshade will be opened with the moonroof.

To close the moonroof, push the slide control switch toward the front. The moonroof will fully close. To stop partway, push the either side of the slide control switch.



► **1** *Tilt up* **2** *Tilt down*

To tilt up the moonroof, push the “TILT” switch on the rear side. The moonroof will fully tilt up. To stop partway, push either side of the “TILT” switch.

To tilt down the moonroof, push the “TILT” switch on the front side. The moonroof will fully tilt down. To stop partway, push either side of the “TILT” switch.

EXTERIOR EQUIPMENT

To operate the moonroof, the ignition key must be in the "ON" position.

Open moonroof reminder: If the moonroof is left open when you turn the ignition key to the "ACC" or "LOCK" position and open the driver's door, a message "MOONROOF OPEN" appears on the multi-information display and a warning tone sounds.

Retained accessory power operation: Even if the ignition key is turned to the "ACC" or "LOCK" position, the moonroof can be operated until either front door is opened (or for 43 seconds).

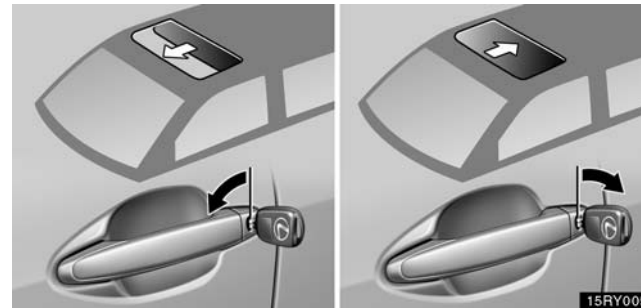
Operating the moonroof from outside the vehicle

The moonroof can be operated using an ignition key.*

NOTE:

* This feature can be deactivated.

Ask your Lexus dealer for details.



► **Close**

► **Open**

Insert the ignition key into the key hole on the driver's door.

To close the moonroof: Turn the key in the locking direction and hold it.

After the doors are locked, the moonroof begins to close. To stop in the middle, return the key.

To open the moonroof: Turn the key in the unlocking direction and hold it.

After the door is unlocked, the moonroof begins to open. To stop in the middle, return the key.

The moonroof also can be opened using the wireless remote control. For details, see page 36.

Jam protection function

- If something gets caught between the moonroof and frame during slide closing operation, the moonroof stops and opens half way.
- If something gets caught between the moonroof and frame during tilting down operation, the moonroof stops and opens fully.

If the moonroof receives a strong impact, this function may work even if nothing is caught.

If the auxiliary battery is disconnected or run down

The moonroof may not operate automatically and the jam protection function will not function correctly after you reconnect, replace or recharge the auxiliary battery. In any of these cases, you should normalize the moonroof.

To normalize the moonroof, push and hold the slide control switch toward the front or "TILT" switch on the rear side. The moonroof will tilt up and down, then slide open and close. After the slide close operation, release the switch.

Make sure that the moonroof opens and closes automatically. If the moonroof cannot be operated properly, have it checked by your Lexus dealer.



CAUTION

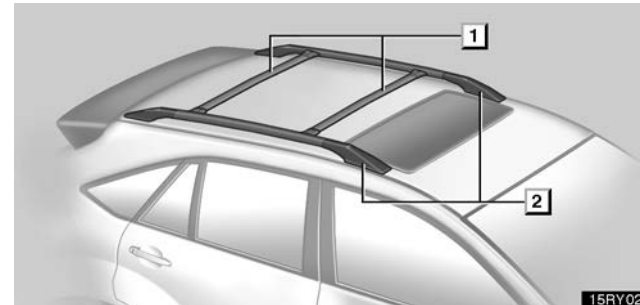
To avoid serious personal injury, you must do the following.

- **While the vehicle is moving, always keep the heads, hands and other parts of the bodies of all occupants away from the roof opening. Otherwise, they could be seriously injured if the vehicle stops suddenly or if the vehicle is involved in an accident.**

EXTERIOR EQUIPMENT

- Before you close the moonroof, always make sure there is nobody around the moonroof. You must also make sure nobody places his or her head, hands and other parts of the body in the roof opening. If someone's neck, head or hands get caught in the closing roof, it could result in death or serious injury. When anyone closes the moonroof, first make sure it is safe to do so.
- Be sure to remove the ignition key when you leave your vehicle.
- Never leave anyone (particularly a small child) alone in your vehicle, especially with the ignition key still inserted. Otherwise, he/she could use the moonroof switches and get trapped in the roof opening. Unattended person (particularly a small child) can be involved in a serious accident.
- Never sit on top of the vehicle around the roof opening.
- Never try jamming any part of your body to activate the jam protection function intentionally.
- The jam protection function may not work if something gets caught just before the moonroof is fully closed.

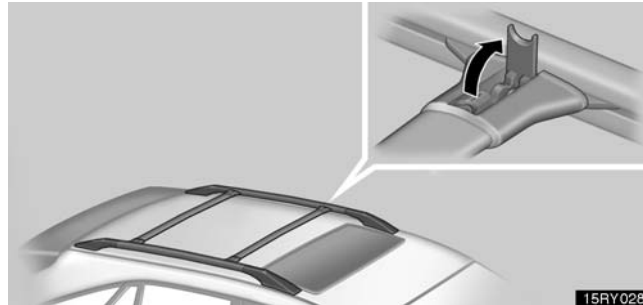
ROOF LUGGAGE CARRIER



► **1** Cross rails **2** Roof rails

The roof luggage carrier consists of roof rails and sliding cross rails.

Adjusting the position of cross rails



1. Pull the lock release lever up to release the cross rails.

You can release the cross rails by operating only the single side lock release lever.



2. Slide the cross rails to the appropriate position for loading luggage and release the lever.



CAUTION

Make sure the cross rails are locked securely by pushing forward and rearward them. Failure to do so may cause an unexpected accident or severe injury in the event of emergency braking or a collision.

Follow the manufacturer's instructions and precautions when installing the attachments or their equivalent.

EXTERIOR EQUIPMENT



CAUTION

When you load cargo on the roof luggage carrier, observe the following:

- Place the cargo so that its weight is distributed evenly between the front and rear axles.
- If loading long or wide cargo, never exceed the vehicle overall length or width. (See “Specifications” on page 600 for information on your vehicle overall length and width.)
- Before driving, make sure the cargo is securely fastened on the roof luggage carrier.
- Loading cargo on the roof luggage carrier will make the center of the vehicle gravity higher. Avoid high speeds, sudden starts, sharp turns, sudden braking or abrupt maneuvers, otherwise it may result in loss of control or vehicle rollover due to failure to operate this vehicle correctly.

- If driving for a long distance, on rough roads, or at high speeds, stop the vehicle now and then during the trip to make sure the cargo remains in its place.
- Do not exceed 75 kg (165 lb.) cargo weight on the roof luggage carrier.

NOTICE

When loading the luggages, be careful not to scratch the surface of the moonroof.

SECTION 1 – 6

INSTRUMENTS AND CONTROLS

Occupant restraint systems

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OCCUPANT RESTRAINT SYSTEMS

SEATS

While the vehicle is being driven, all vehicle occupants should have the seatback upright, sit well back in the seat and properly wear the seat belts provided.



CAUTION

- Do not drive the vehicle unless the occupants are properly seated. Do not allow any passengers to sit in the luggage compartment or cargo area. Persons not properly seated and/or not properly restrained by seat belts can be severely injured in the event of emergency braking or a collision.
- During driving, do not allow any passengers to stand up or move around between seats. Otherwise, severe injuries can occur in the event of emergency braking or a collision.

FRONT SEATS

Front seat precautions

Driver seat



CAUTION

The SRS driver airbag deploys with considerable force, and can cause death or serious injury especially if the driver is very close to the airbag. The National Highway Traffic Safety Administration (“NHTSA”) advises:

Since the risk zone for driver airbag is the first 50 — 75 mm (2 — 3 in.) of inflation, placing yourself 250 mm (10 in.) 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 250 mm (10 in.) 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.

OCCUPANT RESTRAINT SYSTEMS

- Slightly recline the back of the seat. Although vehicle designs vary, many drivers can achieve the 250 mm (10 in.) 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.

Front passenger seat



CAUTION

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.

OCCUPANT RESTRAINT SYSTEMS

Front seats (with SRS side airbags)



CAUTION

The SRS side airbags are installed in the driver and front passenger seats. Observe the following precautions.

- Do not lean against the front door when the vehicle is in use, since the side airbag inflates with considerable speed and force. Otherwise, you may be killed or seriously injured.
- Do not use seat accessories which cover the area where the side airbags inflate. Such accessories may prevent the side airbags from activating correctly, causing death or serious injury.
- Do not modify or replace the seats or upholstery of the seats equipped with side airbags. Such change may prevent the side airbag system from activating correctly, disable the system or cause the side airbags to inflate accidentally, resulting in death or serious injury.

Seat adjustment precautions



CAUTION

- Do not adjust the seat while the vehicle is moving as the seat may unexpectedly move and cause the driver to lose control of the vehicle.
- Be careful that the seat does not hit a passenger, luggage or the rear seat.

NOTICE

Do not operate the control switch in more than one dimension at a time. It may cause electrical overload.

OCCUPANT RESTRAINT SYSTEMS

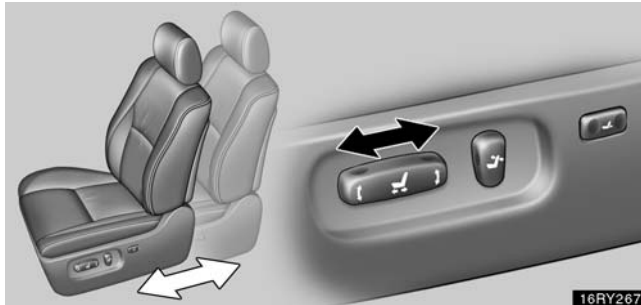
Adjusting front seats



- **1** *Seat position control, seat cushion angle and height control switch*
- 2** *Seatback angle control switch*
- 3** *Lumbar support control switch*

OCCUPANT RESTRAINT SYSTEMS

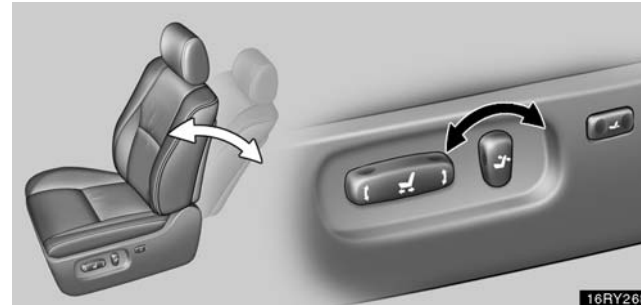
Adjusting seat position



Move the control switch in the desired direction.

Releasing the switch will stop the seat in that position. Do not place anything under the seat, as this might interfere with the seat movement.

Adjusting seatback angle



Move the control switch in the desired direction.

Releasing the switch will stop the seatback in that position.

OCCUPANT RESTRAINT SYSTEMS

CAUTION

Avoid reclining the seatback any more than needed. The seat belts provide maximum protection in a frontal or rear collision when the driver and the front passenger are sitting up straight and well back in the seats. If you are reclined, the lap belt may slide past your hips and apply restraint forces directly to the abdomen or your neck may contact the shoulder belt. In the event of a frontal collision, the more the seat is reclined, the greater the risk of death or personal injury.

Adjusting seat cushion angle and height

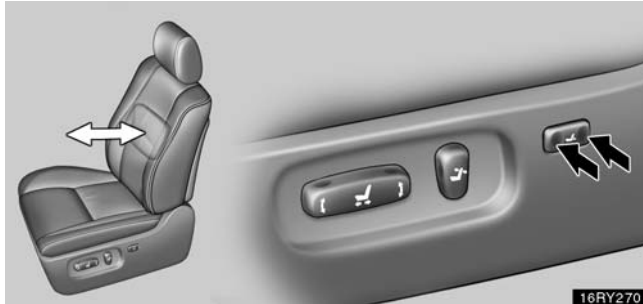


Move the control switch in the desired direction.

Releasing the switch will stop the seat cushion in that position.

OCCUPANT RESTRAINT SYSTEMS

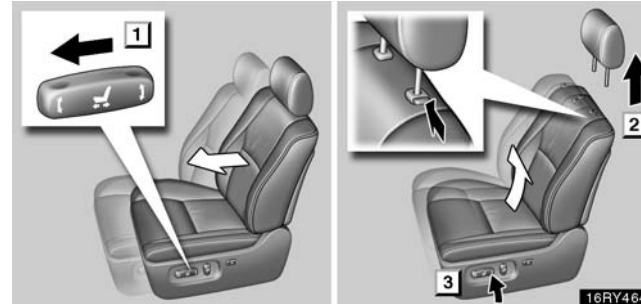
Adjusting lumbar support



Push the control switch on either side.

The amount of lumbar support will change while the switch is pushed.

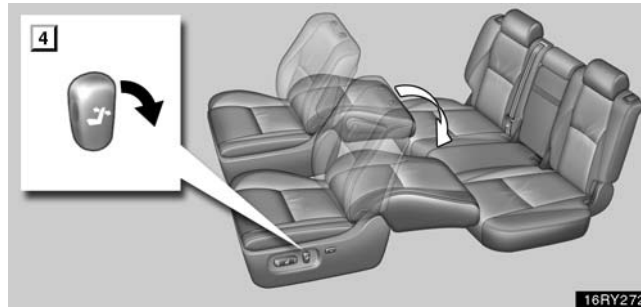
Flattening seatbacks



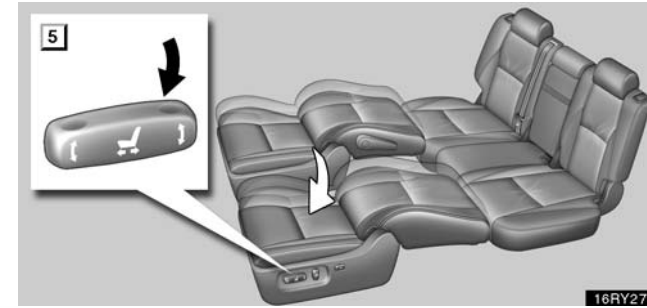
Before flattening seatbacks, slide the rear seats as far back as possible.

- 1** Push the seat position control switch forward to move the seat forward.
- 2** Push the lock release button on the head restraint to remove it.
- 3** Push the seat position control switch upward to raise the seat.

OCCUPANT RESTRAINT SYSTEMS



- 4 Move the seatback angle control switch backward to flatten the seatback.



- 5 Push the seat position control switch downward.

After returning the seat to its original position, be certain to replace the head restraint.



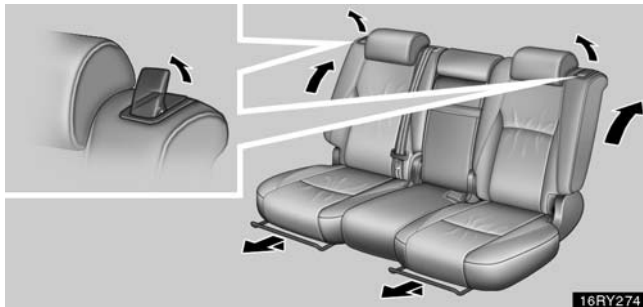
CAUTION

- Do not allow passengers to ride on the flattened seat while driving; use the seat in the normal position.
- After putting back the seat, try pushing the seatback forward and rearward to make sure it is secured in place. Be certain to replace the head restraint.

OCCUPANT RESTRAINT SYSTEMS

REAR SEATS

Sliding and reclining rear seats



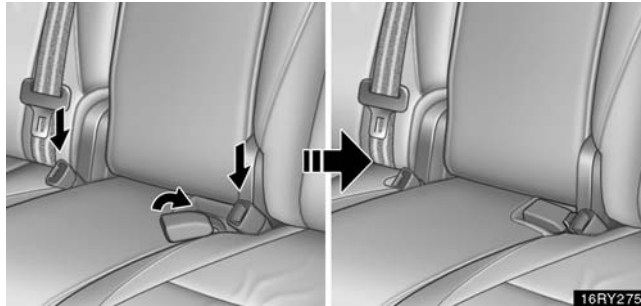
Sliding the rear seats — Hold the center of the slide lock release lever and pull it up. Then slide the seat to the desired position with slight body pressure and release the lever.

Reclining the rear seats — Pull the seatback lock release lever. Then lean back to the desired angle and release the lever.

CAUTION

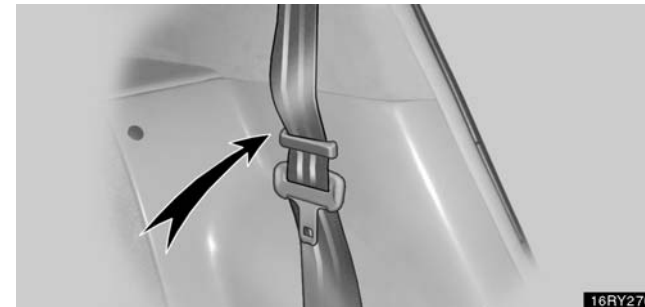
Avoid reclining the seatback any more than needed. The seat belts provide maximum protection in frontal or rear collision when the passengers are sitting up straight and well back in the seats. If you are reclined, the lap belt may slide past your hips and apply restraint forces directly to the abdomen or your neck may contact the shoulder belt. In the event of a frontal collision, the more the seat is reclined, the greater the risk of death or personal injury.

Folding down rear seatbacks



► *Before folding down rear seatbacks*

Stow the rear seat belt buckles as shown above.



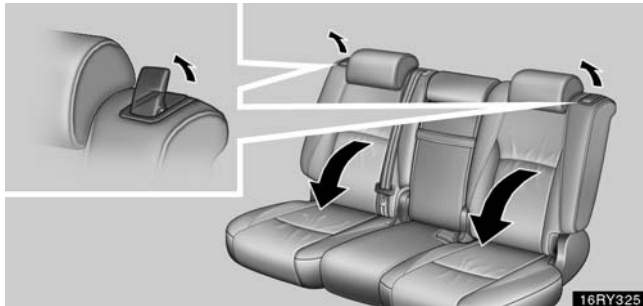
► *Seat belt hanger*

For the outer seat belts, use the seat belt hangers to prevent the belts from being tangled.

NOTICE

The seat belts and the buckles must be stowed before you fold down the rear seatbacks.

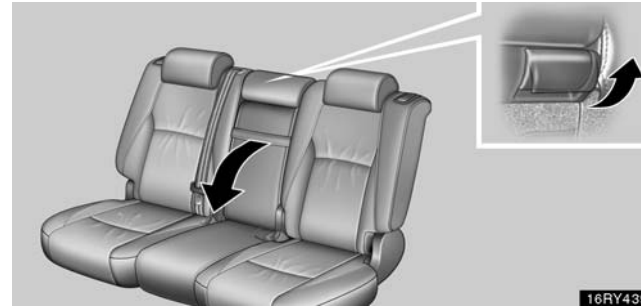
OCCUPANT RESTRAINT SYSTEMS



► *Folding down rear seatbacks*

Lower the head restraints, unlock the seatbacks by pulling the seatback lock release lever and fold them down until they lock.

When returning the rear seatbacks to their original positions, unlock the seatbacks by pulling the seatback lock release lever and lift them up until they lock.



► *Folding down rear center seatback*

You can fold down only the rear center seatback.

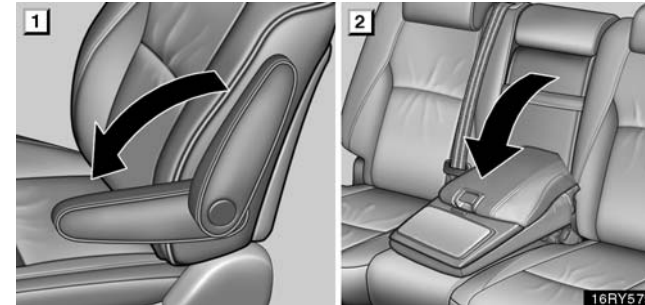
To fold down the center seatback, lower the center head restraint, unlock the seatback by pulling the center seatback lock release lever behind the seatback and fold it down. To return the center seatback to its original position, lift the center seatback up until it locks.

⚠ CAUTION

- When folding down the rear seatback, be careful not to get hands or feet pinched between the rear console box and the rear seat.
- When returning the seatback to the upright position, observe the following precautions in order to prevent personal injury in a collision or sudden stop:

Make sure the seat is securely locked by pushing forward and rearward on the top of the seatback. Failure to do so will prevent the seat belt from operating properly.

Make sure the seat belts are not twisted or caught under the seat and are arranged in their proper position and are ready to use.

ARMRESTS**1 Front****2 Rear**

To use the armrests, pull them down as shown above.

NOTICE

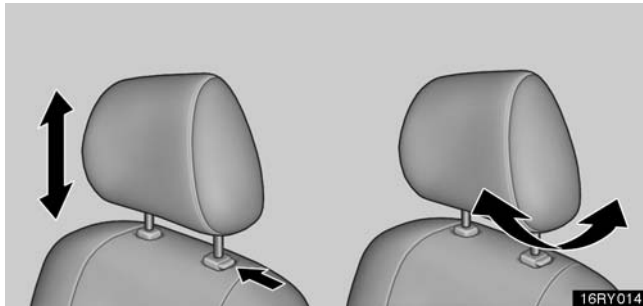
To prevent damage to the armrests, avoid putting heavy loads on them.

OCCUPANT RESTRAINT SYSTEMS

HEAD RESTRAINTS

For your safety and comfort, adjust the head restraint before driving.

Front seats



To raise the head restraint, pull it up. To lower it, press the lock release button and push the head restraint down. To move the head restraint forward or rearward, pull or push the base of the head restraint.

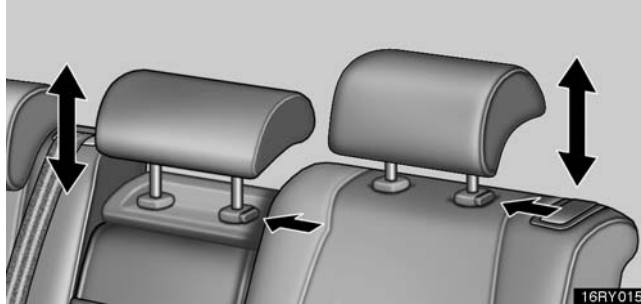
The head restraint is most effective when it is close to your head. Therefore, using a cushion on the seatback is not recommended.

CAUTION

- Adjust the center of the head restraint so that it is closest to the top of your ears.
- After adjusting the head restraint, make sure it is locked in position.
- Do not drive with the head restraints removed.

OCCUPANT RESTRAINT SYSTEMS

Rear seats



To raise the head restraint, pull it up. To lower it, press the lock release button and push the head restraint down.

Rear center head restraint — When an occupant sits on the rear center seat, always pull up the rear center head restraint to the lock position.

The head restraint is most effective when it is close to your head. Therefore, using a cushion on the seatback is not recommended.



CAUTION

- Adjust the center of the head restraint so that it is closest to the top of your ears.
- After adjusting the head restraint, make sure it is locked in position.
- Do not drive with the head restraints removed.

OCCUPANT RESTRAINT SYSTEMS

SEAT BELTS

Seat belt precautions

Lexus strongly urges that the driver and passengers in the vehicle be properly restrained at all times with the seat belts provided. Failure to do so could increase the chance of injury and/or the severity of injury in accidents.

The seat belts provided for your vehicle are designed for people of adult size, large enough to properly wear them.

Child. Use a child restraint system appropriate for the child until the child becomes large enough to properly wear the vehicle's seat belts. See "Child restraint" on page 221 for details.

If a child is too large for a child restraint system, the child should sit in the rear seat and must be restrained using the vehicle's seat belt. According to accident statistics, the child is safer when properly restrained in the rear seat than in the front seat.

If a child must sit in the front seat, the seat belts should be worn properly. If an accident occurs and the seat belts are not worn properly, the force of the rapid inflation of the airbag may cause death or serious injury to the child.

Do not allow any children to stand up or kneel on either rear or front seats. An unrestrained child could suffer serious injury or death during emergency braking or a collision. Also, do not let the child sit on your lap. Holding a child in your arms does not provide sufficient restraint.

Pregnant woman. Lexus recommends the use of a seat belt. Ask your doctor for specific recommendations. The lap belt should be worn securely and as low as possible over the hips and not on the waist.

Injured person. Lexus recommends the use of a seat belt. Depending on the injury, first check with your doctor for specific recommendations.

OCCUPANT RESTRAINT SYSTEMS

CAUTION

Persons should ride in their seats properly wearing their seat belts whenever the vehicle is moving. Otherwise, they are much more likely to suffer serious bodily injury or death in the event of sudden braking or a collision.

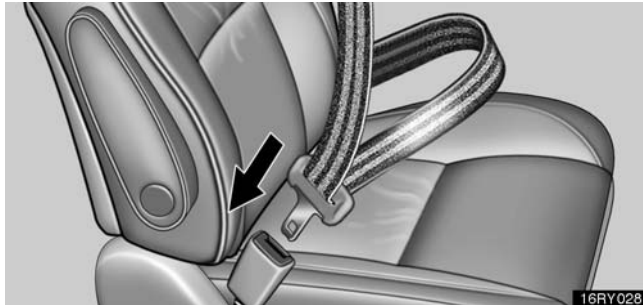
When using the seat belts, observe the following:

- Use the belt for only one person at a time. Do not use a single belt for two or more people — even children.
- Avoid reclining the seatback any more than needed. The seat belts provide maximum protection in a frontal or rear collision when the driver and the front passenger are sitting up straight and well back in the seats. If you are reclined, the lap belt may slide past your hips and apply restraint forces directly to the abdomen or your neck may contact the shoulder belt. In the event of a frontal collision, the more the seat is reclined, the greater the risk of death or personal injury.
- Be careful not to damage the belt webbing or hardware. Take care that they do not get caught or pinched in the seat or doors.
- Inspect the belt system periodically. Check for cuts, fraying, and loose parts. Damaged parts should be replaced. Do not disassemble or modify the system.

- Keep the belts clean and dry. If they need cleaning, use a mild soap solution or lukewarm water. Never use bleach, dye, or abrasive cleaners, or allow them to come into contact with the belt — they may severely weaken the belts. (See “Cleaning the interior” on page 606 for instructions.)
- Replace the belt assembly (including bolts) if it has been used in a severe impact. The entire assembly should be replaced even if damage is not obvious.

OCCUPANT RESTRAINT SYSTEMS

Fastening front and rear seat belts



Adjust the seat as needed and sit up straight and well back in the seat. To fasten your belt, pull it out of the retractor and insert the tab into the buckle.

You will hear a click when the tab locks into the buckle.

The seat belt length automatically adjusts to your size and the seat position.

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

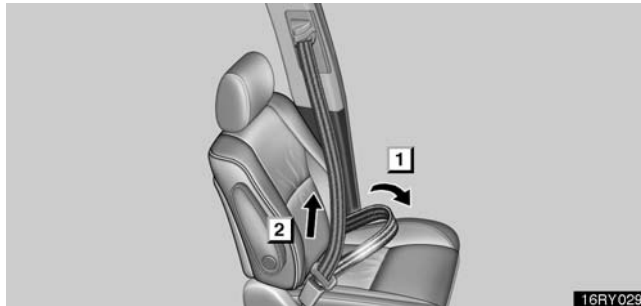
When a rear seat belt is completely extended and is then retracted even slightly, the belt is locked in that position and cannot be extended. This feature is used to hold the child restraint system securely. (For details, see “Child restraint” on page 221.) To free the belt again, fully retract the belt and then pull the belt out once more.

If the seat belt cannot be pulled out of the retractor, firmly pull the belt and release it. You will then be able to smoothly pull the belt out of the retractor.

CAUTION

- After inserting the tab, make sure the tab and buckle are locked and that the belt is not twisted.
- Do not insert coins, clips, etc. in the buckle as this may prevent you from properly latching the tab and buckle.
- If the seat belt does not function normally, immediately contact your Lexus dealer. Do not use the seat until the seat belt is fixed, because it cannot protect an adult occupant or your child from injury.

OCCUPANT RESTRAINT SYSTEMS



Adjust the position of the lap and shoulder belts.

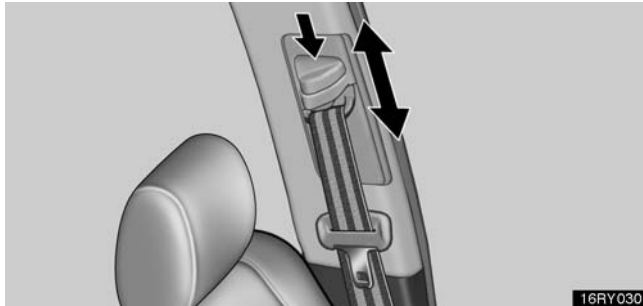
- 1** Position the lap belt as low as possible on your hips — not on your waist.
- 2** Adjust it to a snug fit by pulling the shoulder portion upward through the latch plate.



CAUTION

- Both high-positioned lap belts and loose-fitting belts could cause serious injuries due to sliding under the lap belt during a collision or other unintended event. Keep the lap belt positioned as low on hips as possible.
- Do not place the shoulder belt under your arm.

OCCUPANT RESTRAINT SYSTEMS



► *Front seat belts only*

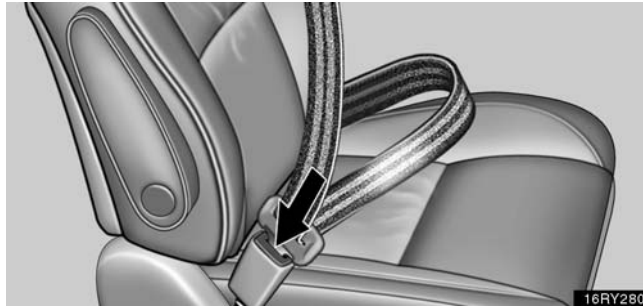
Adjust the shoulder anchor position to your size.

To raise the anchor position, push the anchor up. To lower the anchor position, support the anchor while you push the lock release button then slide the anchor down. After the adjustment, make sure the anchor is locked in position.

CAUTION

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 serious injuries in a collision.

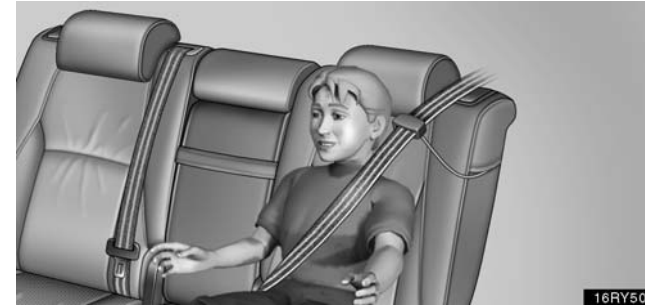
OCCUPANT RESTRAINT SYSTEMS



To release the belt, press the buckle release button and allow the belt to retract.

If the belt does not retract smoothly, pull it out and check for kinks or twists. Then make sure it remains untwisted as it retracts.

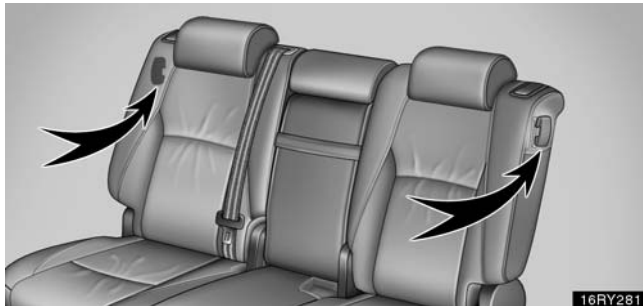
Seat belt comfort guides



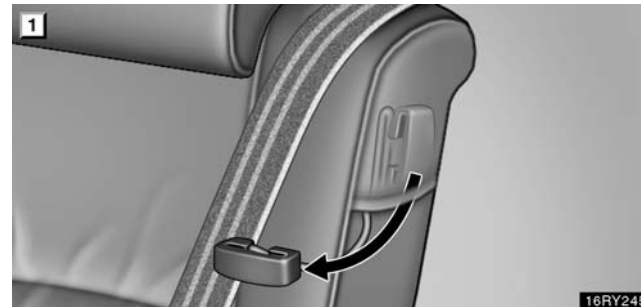
The outboard shoulder belt comfort guides for the rear seat outboard positions will provide added seat belt comfort for children who have outgrown child restraints and for small adults. When the outboard shoulder belt is inserted through the guide, the comfort guide pulls the belt away from the neck and head of an occupant.

To use the comfort guide, do as follows.

OCCUPANT RESTRAINT SYSTEMS



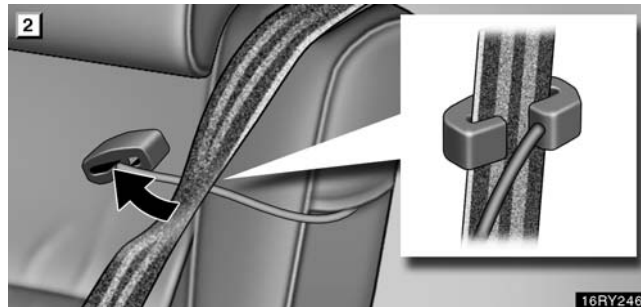
Seat belt comfort guides are stored in the both pockets on the sides of the rear seatback.



INSTALLING THE COMFORT GUIDE

1. Pull the comfort guide from the pocket.

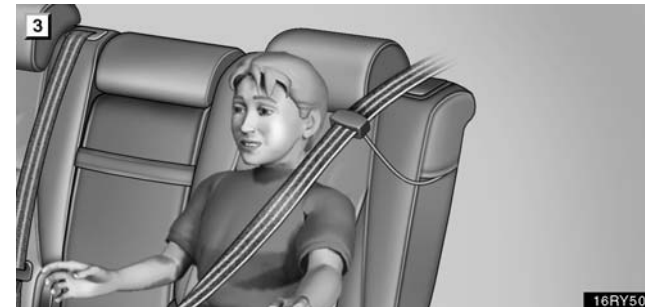
OCCUPANT RESTRAINT SYSTEMS



2. Pinch the two edges of the shoulder belt for the rear seat outboard position with your fingers and slide the belt past the slot of the guide as shown above. At this time, the elastic cord must be behind the seat belt.

CAUTION

Make sure the belt is not twisted and that it lies flat. The elastic cord must be behind the belt and the guide must be on the front.

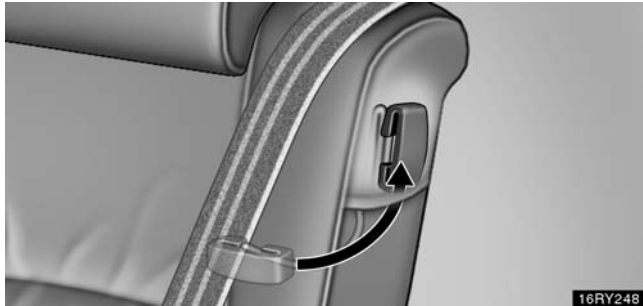


3. Buckle, position and release the seat belt. (For wearing the seat belt, see page 178.)

CAUTION

Always make sure the shoulder belt is positioned across the center of the shoulder. The belt should be kept away from the neck, and should not fall off the shoulder. Failure to observe these precautions could reduce the effectiveness of the seat belt in an accident, causing death or serious injury.

OCCUPANT RESTRAINT SYSTEMS



REMOVING AND STORING THE COMFORT GUIDE

Pinch the two edges of the seat belt together so that you can slide them out of the guide. Store the guide with the elastic cord into the pocket.



CAUTION

To reduce the chance of injury in case of an accident or a sudden stop while driving, remove and store the comfort guide in its pocket when it is not in use.

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.

Please contact your local Lexus dealer so that the dealer can order the proper required length for the extender. Bring the heaviest coat you expect to wear for proper measurement and selection of length. Additional ordering information is available at your Lexus dealer.

OCCUPANT RESTRAINT SYSTEMS

CAUTION

When using the seat belt extender, observe the following precautions. Failure to follow these instructions could reduce the effectiveness of the seat belt restraint system in case of an accident, increasing the chance of personal injury.

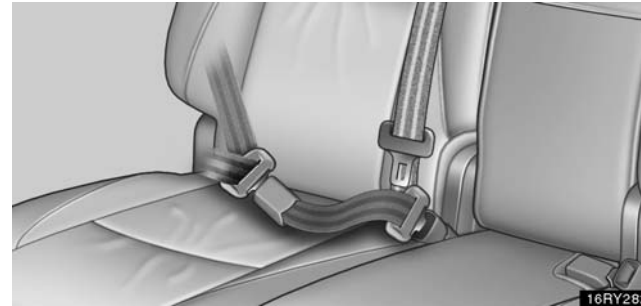
- Remember that the extender provided for you may not be safe when used on a different vehicle, for another person, or at a different seating position than the one originally intended.



- If the seat belt extender has been connected to the driver's seat belt buckle without wearing the seat belt when using the extender in the driver's seat, the SRS driver's airbag system will judge that the driver wears the seat belt even if not wearing it. In this case, the driver's airbag may not activate correctly, causing death or serious injury in the event of collision. Be sure to wear the seat belt with the seat belt extender.

OCCUPANT RESTRAINT SYSTEMS

- Make sure the “AIRBAG ON” indicator light is illuminated when using the seat belt extender for the front passenger seat. If the “AIRBAG OFF” indicator light is illuminated, disconnect the extender tongue from the seat belt buckle, then reconnect the seat belt. Reconnect the seat belt extender after making sure the “AIRBAG ON” indicator light is illuminated. If you use the seat belt extender while the “AIRBAG OFF” indicator light is illuminated, the front passenger airbag and side airbag on the front passenger side may not activate correctly, causing death or serious injury in the event of collision.
- Be sure to wear the seat belt without 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 on the front or rear passenger seat. If installing a child restraint system with the seat belt extender connected to the seat belt, the seat belt will not securely hold the child restraint system, which could cause death or serious injury to the child or other passengers in the event of collision.



To connect the extender to the seat belt, insert the tab into the seat belt buckle so that the “PRESS” signs on the buckle release buttons of the extender and the seat belt are both facing outward as shown.

You will hear a click when the tab locks into the buckle.

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 extender itself.

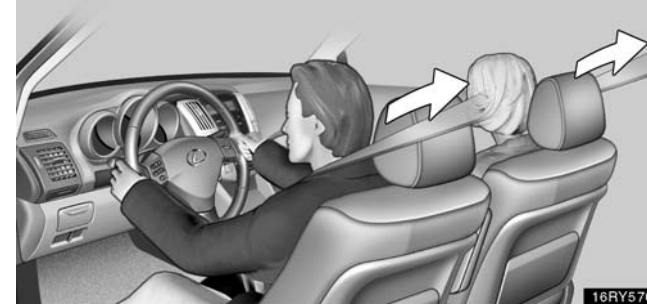
As far as the seat belt extender on the front passenger side is concerned, be sure to disconnect the extender from the seat belt after the above operation in order to activate the front passenger airbag correctly when getting into the vehicle next time.

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

CAUTION

- After inserting the tab, make sure the tab and buckle are locked and that the lap and shoulder portions of the belt and the seat belt extender are not twisted.
- Do not insert coins, clips, etc. in the buckle as this may prevent you from properly latching the tab and buckle.
- If the seat belt does not function normally, immediately contact your Lexus dealer. Do not use the seat until the seat belt is fixed, because it cannot protect an adult occupant or your child from injury.

Seat belt pretensioners



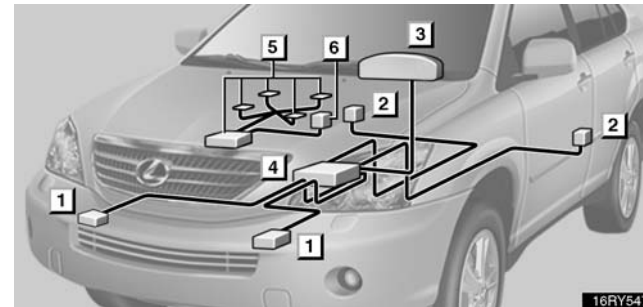
The driver and front passenger's seat belt pretensioners are designed to be activated in response to a severe frontal impact or a vehicle rollover.

When the sensor detects a severe frontal impact or a vehicle rollover, the front seat belts are quickly drawn back by the retractors so that the belts snugly restrain the front seat occupants.

OCCUPANT RESTRAINT SYSTEMS

The front passenger's seat belt pretensioner will not activate if no passenger is detected in the front passenger seat by the front passenger occupant classification system. However, the front passenger's seat belt pretensioner may activate if luggage is put on the seat, or the seat belt is buckled up regardless of the presence of an occupant in the seat. (As for the front passenger occupant classification system, see page 215.)

The seat belt pretensioners and SRS airbags may not operate together in case of collisions at a certain speeds and angles.



- **1** Front airbag sensors
- 2** Front seat belt pretensioner assemblies
- 3** SRS warning light
- 4** Airbag sensor assembly
- 5** Front passenger occupant classification system (ECU and sensors)
- 6** Front passenger's seat belt buckle switch

OCCUPANT RESTRAINT SYSTEMS

The front seat belt pretensioner system mainly consists of the above components, and their locations are shown in the illustration.

The front seat belt pretensioners are controlled by the airbag sensor assembly. The airbag sensor assembly consists of a safing sensor and airbag sensor.

When the front seat belt pretensioners are activated, an operating noise may be heard and a small amount of non-toxic gas may be released. This does not indicate that a fire is occurring. This gas is normally harmless.

Once the front seat belt pretensioners have been activated, the seat belt retractors remain locked.

CAUTION

- Do not modify, remove, strike or open the seat belt pretensioner assemblies, airbag sensor or surrounding area or wiring. Failure to follow these instructions may prevent the seat belt pretensioners from activating correctly, cause sudden operation of the system or disable the system, which could result in death or serious injury. Consult your Lexus dealer about any repairs and modifications.

- Do not modify or change the suspension system. Such changes may cause the curtain shield airbags to inflate accidentally, which could result in death or serious injury. Consult your Lexus dealer about any repair and modification.
- Do not use tires or wheels other than the manufacturer's recommended size. Such a use may cause the curtain shield airbags and seat belt pretensioners to inflate accidentally, which could result in death or serious injury. For details, see "Checking and replacing tires" on page 572.
- Do not place luggage heavier than specified on the roof luggage carrier. Such luggage may cause the curtain shield airbags and seat belt pretensioners to inflate accidentally, which could result in death or serious injury. For details, see "Roof luggage carrier" on page 158.

OCCUPANT RESTRAINT SYSTEMS

NOTICE

Do not perform any of the following changes without consulting your Lexus dealer. Such changes can interfere with proper operation of the front seat belt pretensioners in some cases.

- *Installation of electronic devices such as a mobile two-way radio, cassette tape player or CD player*
- *Repairs on or near the front seat belt retractor assemblies*
- *Modification of the suspension system*
- *Modification of the front end structure*
- *Attachment of a grille guard (bull bar, kangaroo bar, etc.), snowplow, winches or any other equipment to the front end*
- *Repairs made on or near the front fenders, front end structure or console*



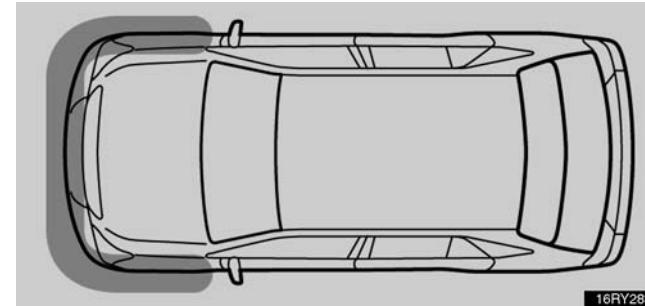
This indicator comes on when the ignition key is turned to the "ON" position. It goes off after about 6 seconds. This means the front seat belt pretensioners are operating properly.

This warning light system monitors the airbag sensor assembly, front airbag sensors, side and curtain shield airbag sensor assemblies, curtain shield airbag sensor assemblies, driver's seat position sensor, driver's seat belt buckle switch, front passenger occupant classification system, "AIRBAG ON" indicator light, "AIRBAG OFF" indicator light, front passenger's seat belt buckle switch, front seat belt pretensioner assemblies, inflators, warning light, interconnecting wiring and power sources. (For details, see "Service reminder indicators and warning buzzers" on page 86.)

OCCUPANT RESTRAINT SYSTEMS

If any of the following conditions occurs, this indicates a malfunction of the front seat belt pretensioners. Contact your Lexus dealer as soon as possible.

- The light does not come on when the ignition key is turned to the "ON" position or remains on for more than 6 seconds or flashes.
- The light comes on or starts flashing while driving.
- If either front seat belt does not retract or cannot be pulled out due to a malfunction or activation of the relevant front seat belt pretensioner.
- The front seat belt pretensioner assembly or surrounding area has been damaged.

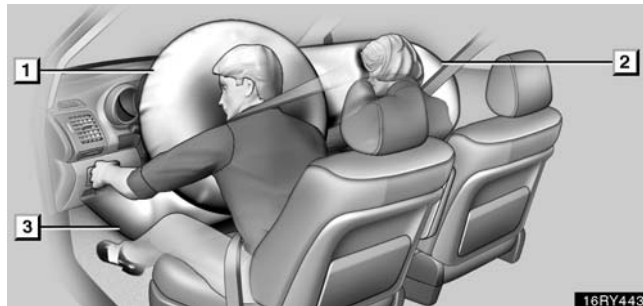


In the following cases, contact your Lexus dealer as soon as possible:

- The front seat belt pretensioner assembly or surrounding area has been damaged.
- The front of the vehicle (shaded in the illustration) was involved in an accident that was not severe enough to cause the front seat belt pretensioners to operate.
- The front seat belt pretensioner assembly is scratched, cracked, or otherwise damaged.

OCCUPANT RESTRAINT SYSTEMS

SRS DRIVER AIRBAGS AND FRONT PASSENGER AIRBAG



- **1** *Driver airbag*
- 2** *Front passenger airbag*
- 3** *Driver knee airbag*

The SRS (Supplemental Restraint System) front airbags are designed to provide further protection for the driver and front passenger in addition to the primary safety protection provided by the seat belts.

In response to a severe frontal impact, the SRS front airbags work together with the seat belts to help reduce injury by inflating. The SRS front airbags deploy when receiving the severe frontal impact that may cause serious injuries to the driver and front passenger. And together with the feature of the seat belts to restrain their bodies, the SRS front airbags help reduce injuries mainly to the driver's and front passenger's heads and chests caused by hitting the vehicle interior.

The SRS front passenger airbag will not activate if there is no passenger sitting in the front passenger seat. However, the front passenger airbag may deploy if luggage is put in the seat, or the seat belt is buckled up, regardless of the presence of an occupant in the seat.

Always wear your seat belt properly.

OCCUPANT RESTRAINT SYSTEMS

CAUTION

- The SRS front airbag system is designed only as a supplement to the primary protection of the driver and front passenger seat belt systems. The driver and front passenger can be killed or seriously injured by the inflating airbags if they do not wear the available seat belts properly. During sudden braking just before a collision, an unrestrained driver or front passenger can move forward into direct contact with or close proximity to the airbag which may then deploy during the collision. To ensure maximum protection in an accident, the driver and all passengers in the vehicle must wear their seat belts properly. Wearing a seat belt properly during an accident reduces the chances of death or serious injury or being thrown out of the vehicle. For instructions and precautions concerning the seat belt system, see “Seat belts” on page 176.

- Improperly seated and/or restrained infants and children can be killed or seriously injured by the deploying airbags. An infant or child who is too small to use a seat belt should be properly secured using a child restraint system. Lexus strongly recommends that all infants and children be placed in the rear seat of the vehicle and properly restrained. The rear seat is the safest for infants and children. For instructions concerning the installation of a child restraint system, see “Child restraint” on page 221.

The SRS front airbags are designed to deploy in severe (usually frontal) collisions where the magnitude and duration of the forward deceleration of the vehicle exceeds the designed threshold level.

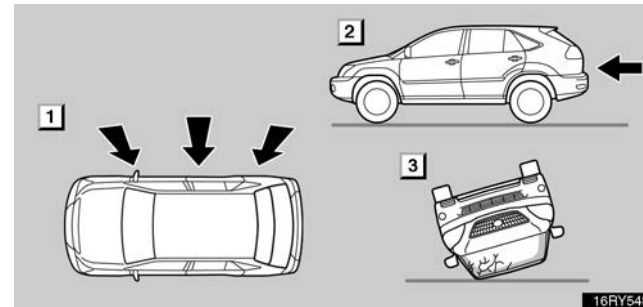
The SRS front airbags will deploy if the severity of the impact is above the designed threshold level, comparable to an approximate 25 km/h (15 mph) collision when the vehicle has the impact straight into a fixed barrier that does not move or deform.

However, this threshold velocity will be considerably higher if the vehicle strikes an object, such as a parked vehicle or sign pole, which can move or deform on impact, or if the vehicle is involved in an underride collision (e.g. a collision in which the front of the vehicle “underrides”, or goes under, the bed of a truck, etc.).

OCCUPANT RESTRAINT SYSTEMS

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.

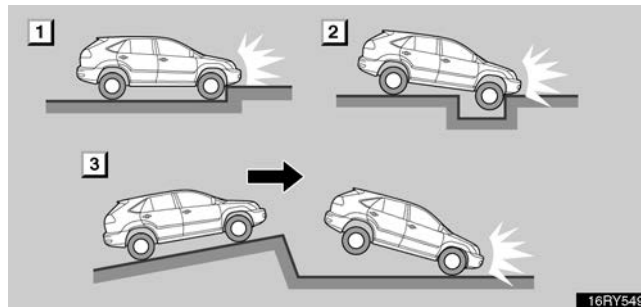
Always wear your seat belts properly.



- **1** *Collision from the side*
- 2** *Collision from the rear*
- 3** *Vehicle rollover*

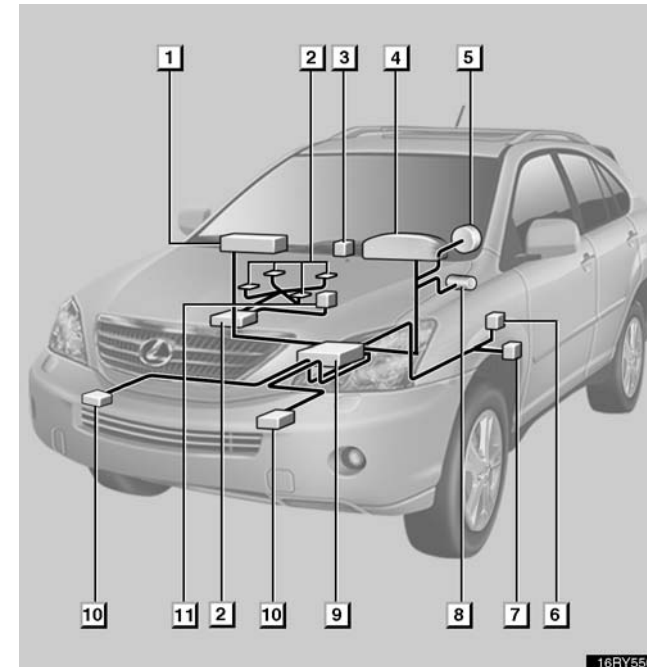
The SRS front airbags are generally not designed to inflate if the vehicle is involved in a side or rear collision, if it rolls over, or if it is involved in a low-speed frontal collision. But, whenever a collision of any type causes sufficient forward deceleration of the vehicle, deployment of the SRS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

OCCUPANT RESTRAINT SYSTEMS



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

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.



OCCUPANT RESTRAINT SYSTEMS

- **1** *Airbag module for front passenger (airbag and inflator)*
- 2** *Front passenger occupant classification system (ECU and sensors)*
- 3** *“AIRBAG ON” and “AIRBAG OFF” indicator lights*
- 4** *SRS warning light*
- 5** *Airbag module for driver (airbag and inflator)*
- 6** *Driver's seat belt buckle switch*
- 7** *Driver's seat position sensor*
- 8** *Knee airbag module for driver (airbag and inflator)*
- 9** *Airbag sensor assembly*
- 10** *Front airbag sensors*
- 11** *Front passenger's seat belt buckle switch*

The SRS front airbag system consists mainly of the above components, and their locations are shown in the illustration.

The airbag sensor assembly consists of a safing sensor and airbag sensor.

The airbag sensors constantly monitor the forward deceleration of the vehicle. If an impact results in a forward deceleration beyond the designed threshold level, the system triggers the airbag inflators. At this time a chemical reaction in the inflators very quickly fills the airbags with non-toxic gas to help restrain the forward motion of the occupants. The front airbags then quickly deflate, so that there is no obstruction of the driver's vision should it be necessary to continue driving.

When the airbags inflate, they produce a loud noise and release some smoke and residue along with non-toxic gas. This does not indicate a fire. This smoke may remain inside the vehicle for some time, and may cause some minor irritation to the eyes, skin or breathing. Be sure to wash off any residue as soon as possible to prevent any potential skin irritation with soap and water. If you can safely exit from the vehicle, you should do so immediately.

OCCUPANT RESTRAINT SYSTEMS

Deployment of the airbags happens in a fraction of a second, so the airbags must inflate with considerable force. While the system is designed to reduce serious injuries, primarily to the head and chest, it may also cause other, less severe injuries to the face, chest, arms and hands. These are usually in the nature of minor burns or abrasions and swelling, but the force of a deploying airbag can cause more serious injuries, especially if an occupant's hands, arms, chest or head are in close proximity to the airbag module at the time of deployment. This is why it is important for the occupant to: avoid placing any object or part of the body between the occupant and the airbag module; sit straight and well back into the seat; wear the available seat belt properly; and sit as far as possible from the airbag module, while still maintaining control of the vehicle.

Parts of the airbag module (steering wheel hub, lower portion of instrument panel, airbag cover and inflator) may be hot for several minutes after deployment, so do not touch! The airbags inflate only once. The windshield may be damaged by absorbing some of the force of the inflating airbag.



CAUTION

The driver or front passenger who is too close to the steering wheel, lower portion of instrument panel or dashboard during airbag deployment can be killed or seriously injured. Lexus strongly recommends that:

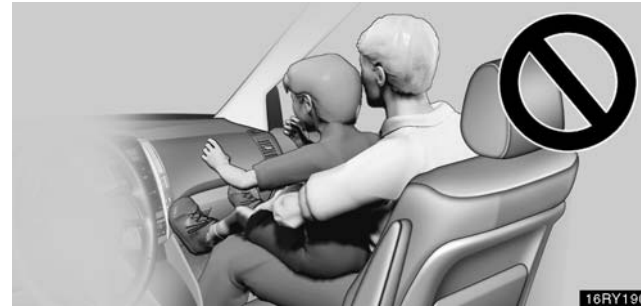
- **The driver sit as far back as possible from the steering wheel while still maintaining control of the vehicle.**
- **The front passenger sit as far back as possible from the dashboard.**
- **All vehicle occupants be properly restrained using the available seat belts.**
- **If the seat belt extender has been connected to the driver's seat belt buckle without wearing the seat belt when using the extender in the driver's seat, the SRS driver's airbag system will judge that the driver wears the seat belt even if not wearing it. In this case, the driver's airbag may not activate correctly, causing death or serious injury in the event of collision. Be sure to wear the seat belt with the seat belt extender.**

For instructions and precautions concerning the seating position, see "Front seat precautions" on page 162.

OCCUPANT RESTRAINT SYSTEMS

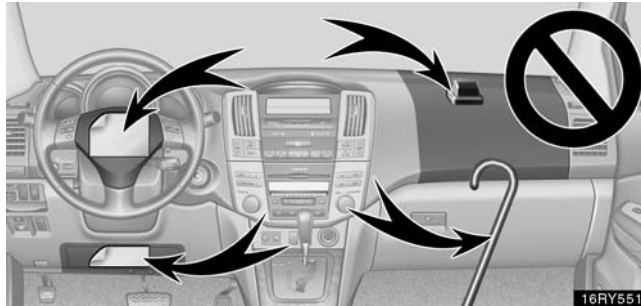


- Do not sit on the edge of the seat or lean over the dashboard when the vehicle is in use, since the front passenger airbag could inflate with considerable speed and force. Anyone who is up against, or very close to, an airbag when it inflates, can be killed or seriously injured. Sit up straight and well back in the seat, and always use your seat belt properly.



- Lexus strongly recommends that all infants and children be placed in the rear seat of the vehicle and be properly restrained.
- Do not hold a child on your lap or in your arms. Use a child restraint system in the rear seat. For instructions concerning the installation of a child restraint system, see “Child restraint” on page 221.

OCCUPANT RESTRAINT SYSTEMS



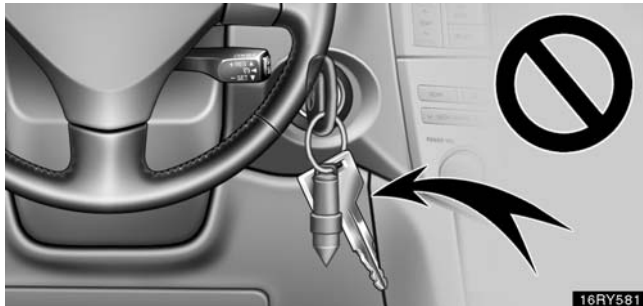
- Do not put anything or any part of your body or install anything such as accessories or turbo timers on or in front of the dashboard, lower portion of instrument panel or steering wheel pad that houses the front airbag system or in the areas where the SRS knee airbag will inflate. They might restrict inflation or cause death or serious injury as they are projected rearward by the force of the deploying airbags. Likewise, the driver and front passenger should not hold objects in their arms or on their knees.
- If the vinyl cover is put on the area where the SRS knee airbag will deploy, be sure to remove it.

- Do not modify or remove any wiring. Do not modify, remove, strike or open any components, such as the steering wheel pad, steering wheel, column cover, dashboard near the front passenger airbag, front passenger airbag cover, front passenger airbag, driver knee airbag or airbag sensor assembly. Doing so may prevent the front airbag system from activating correctly, cause sudden activation of the system or disable the system, which could result in death or serious injury.

Failure to follow these instructions can result in death or serious injury. Consult your Lexus dealer about any repair and modification.

If you wish to modify your vehicle for a person with a physical disability, consult your Lexus dealer. It may dangerously interfere with the SRS front airbags operation.

OCCUPANT RESTRAINT SYSTEMS



- Do not attach any heavy, sharp or hard objects such as keys or accessories to the ignition key. The objects may restrict the SRS knee airbag inflation or be thrust into the driver's seat area by the force of the deploying airbag, thus causing a danger.

NOTICE

Do not perform any of the following changes without consulting your Lexus dealer. Such changes can interfere with proper operation of the SRS front airbag system in some cases.

- *Installation of electronic devices such as a mobile two-way radio, cassette tape player or CD player*
- *Modification of the suspension system*
- *Modification of the front end structure*
- *Attachment of a grille guard (bull bar, kangaroo bar, etc.), snowplow, winches or any other equipment to the front end*
- *Repairs made on or near the front fenders, front end structure, console, steering column, steering wheel, lower portion of instrument panel or dashboard near the front passenger airbag*

OCCUPANT RESTRAINT SYSTEMS



The indicator comes on when the ignition key is turned to the "ON" position. It goes off after about 6 seconds. This means the SRS airbags are operating properly.

This warning light system monitors the airbag sensor assembly, front airbag sensors, side and curtain shield airbag sensor assemblies, curtain shield airbag sensor assemblies, driver's seat position sensor, driver's seat belt buckle switch, front passenger occupant classification system, "AIRBAG ON" indicator light, "AIRBAG OFF" indicator light, front passenger's seat belt buckle switch, front seat belt pretensioner assemblies, inflators, warning light, interconnecting wiring and power sources. (For details, see "Service reminder indicators and warning buzzers" on page 86.)

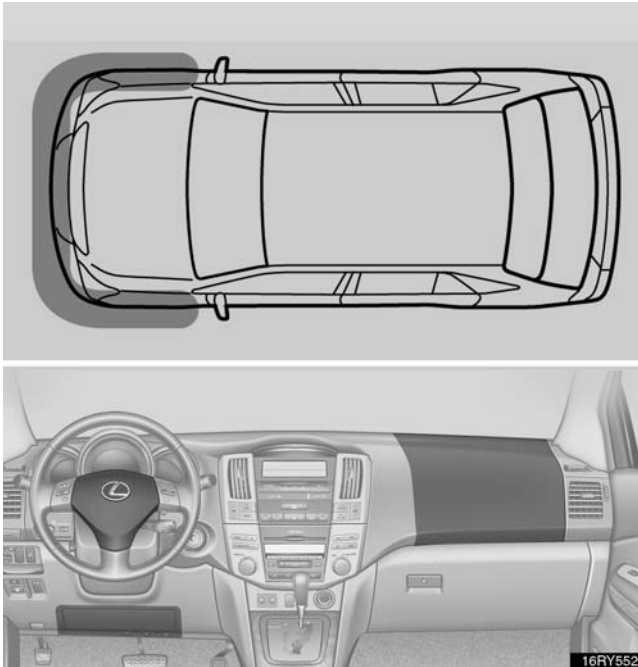
If any of the following conditions occurs, this indicates a malfunction of the airbags or seat belt pretensioners. Contact your Lexus dealer as soon as possible.

- The light does not come on when the ignition key is turned to the "ON" position or remains on for more than 6 seconds or flashes.
- The light comes on or starts flashing while driving.

If the light stays on, it indicates that the SRS driver and front passenger airbags and/or front passenger occupant classification system, "AIRBAG ON" indicator light and "AIRBAG OFF" indicator light fail. If the light flashes, the SRS side and curtain shield airbags have a problem.

The SRS warning light and "AIRBAG OFF" indicator light will be illuminated if there is a malfunction in the front passenger occupant classification system.

OCCUPANT RESTRAINT SYSTEMS



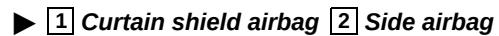
In the following cases, contact your Lexus dealer as soon as possible:

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

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

NOTICE

Do not disconnect the cables of the auxiliary battery before contacting your Lexus dealer.



In response to a severe side impact, the SRS side airbags and curtain shield airbags work with the seat belts to help reduce injury by inflating. The SRS side airbags help reduce injuries mainly to the driver's or front passenger's torso and the SRS curtain shield airbags help reduce injuries mainly to the driver's, front passenger's or rear outboard passenger's head.

Always wear your seat belt properly.

OCCUPANT RESTRAINT SYSTEMS

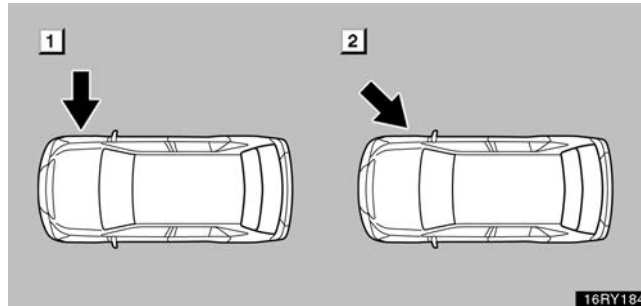


CAUTION

- The SRS side airbag and curtain shield airbag systems are designed only as a supplement to the primary protection of the driver, front passenger and rear outboard passenger seat belt systems. To ensure maximum protection in an accident, the driver and all passengers in the vehicle must wear their seat belts properly. Wearing a seat belt properly during an accident reduces the chances of death or serious injury or being thrown out of the vehicle. For instructions and precautions concerning the seat belt system, see “Seat belts” on page 176.
- Do not allow anyone to lean his/her head or any part of his/her body against the door or the area of the seat, front pillar, rear pillar or roof side rail from which the SRS side airbag and curtain shield airbag deploy even if he/she is a child seated in the child restraint system. It is dangerous if the SRS side airbag and curtain shield airbag inflate, and the impact of the deploying airbags could cause death or serious injury to the occupant.

- Improperly seated and/or restrained infants and children can be killed or seriously injured by the deploying airbags. An infant or child who is too small to use a seat belt should be properly secured using a child restraint system. Lexus strongly recommends that all infants and children be placed in the rear seats of the vehicle and properly restrained. The rear seats are the safest for infants and children. For instructions concerning the installation of a child restraint system, see “Child restraint” on page 221.

OCCUPANT RESTRAINT SYSTEMS



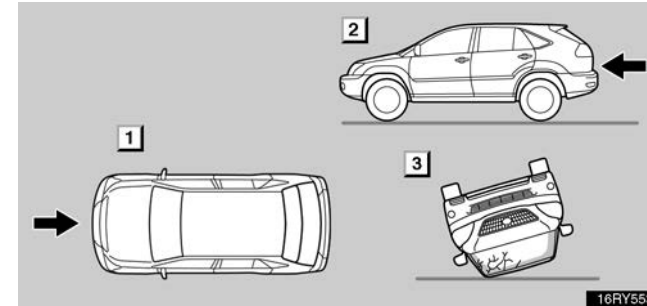
- **1** Collision from the side to the vehicle body other than the passenger compartment
- 2** Collision from the side at an angle

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 as shown in the illustration.

The SRS side airbags are designed to inflate when the passenger compartment area suffers a severe impact from the side.

The SRS curtain shield airbags are designed to inflate when the passenger compartment area suffers a severe impact from the side or vehicle rollover.

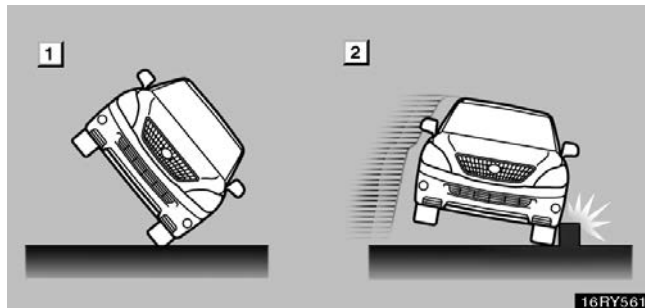
Always wear your seat belts properly.



- **1** Collision from the front
- 2** Collision from the rear
- 3** Vehicle rollover

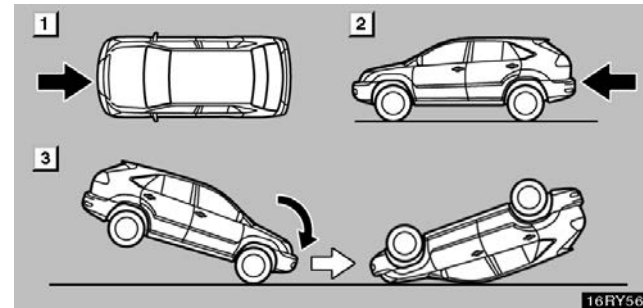
The SRS side airbags are not generally designed to inflate if the vehicle is involved in a front or rear collision, if it rolls over, or if it is involved in a low-speed side collision.

OCCUPANT RESTRAINT SYSTEMS



- **1** *The angle of vehicle tip-up is marginal*
- 2** *Skidding vehicle hitting a curb stone*

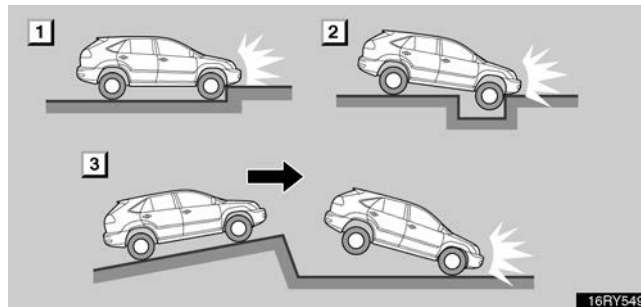
The SRS curtain shield airbags may inflate if the angle of vehicle tip-up is marginal or if the skidding vehicle's tires hit a curb stone laterally as shown in the illustration.



- **1** *Collision from the front*
- 2** *Collision from the rear*
- 3** *Pitching end over end*

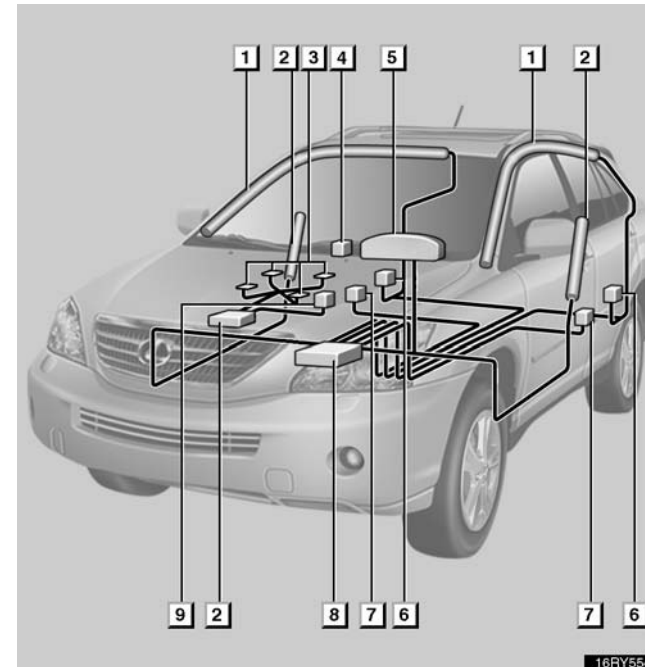
The SRS curtain shield airbags are not designed to inflate if the vehicle is involved in a front or rear collision, if it pitches end over end, or if it is involved in a low-speed side collision.

OCCUPANT RESTRAINT SYSTEMS



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

The SRS side and curtain shield airbags may inflate if a serious impact occurs to the underside of your vehicle. Some examples are shown in the illustration.



OCCUPANT RESTRAINT SYSTEMS

- **1** *Curtain shield airbag modules (airbag and inflator)*
2 *Side airbag modules (airbag and inflator)*
3 *Front passenger occupant classification system (ECU and sensors)*
4 *“AIRBAG ON” and “AIRBAG OFF” indicator lights*
5 *SRS warning light*
6 *Curtain shield airbag sensor assemblies*
7 *Side and curtain shield airbag sensor assemblies*
8 *Airbag sensor assembly*
9 *Front passenger’s seat belt buckle switch*

The SRS side airbag and curtain shield airbag system consists mainly of the above components, and their locations are shown in the illustration.

The SRS side airbag and curtain shield airbag system is controlled by the airbag sensor assembly. The airbag sensor assembly consists of a safing sensor and airbag sensor.

In a severe side impact, the side and curtain shield airbag sensor and/or the curtain shield airbag sensor trigger(s) the side airbag inflators and/or the curtain shield airbag inflators. At this time a chemical reaction in the inflators quickly fills the airbags with non-toxic gas to help restrain the lateral motion of the occupants.

In a vehicle rollover, the airbag sensor assembly triggers the curtain shield airbag inflator. At this time, a chemical reaction in the inflators quickly fills the airbags with non-toxic gas to help restrain the lateral motion of the occupants.

When the airbags inflate, they produce a fairly loud noise and release some smoke and residue along with non-toxic gas. This does not indicate a fire. This smoke may remain inside the vehicle for some time, and may cause some minor irritation to the eyes, skin or breathing. Be sure to wash off any residue as soon as possible to prevent any potential skin irritation with soap and water. If you can safely exit from the vehicle, you should do so immediately.

Deployment of the airbags happens in a fraction of a second, so the airbags must inflate with considerable force. While the system is designed to reduce serious injuries, it may also cause minor burns or abrasions and swelling.

Front seats as well as parts of the front and rear pillars, and roof side rail may be hot for several minutes, but the airbags themselves will not be hot. The airbags are designed to inflate only once.

CAUTION

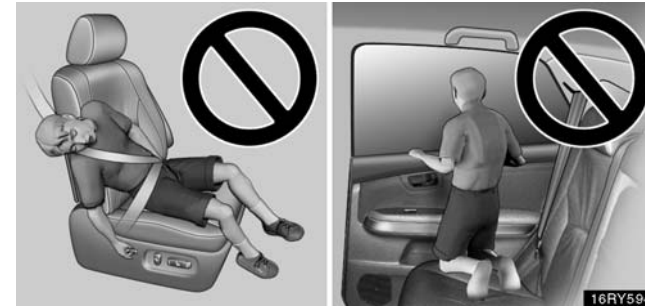
SRS side airbags and curtain shield airbags inflate with considerable force. To reduce the possibility of death or serious injury when they inflate, the driver, front passenger and rear outboard passengers must:

- **Wear their seat belts properly.**
- **Remain properly seated with their backs upright and against the seats at all times.**

OCCUPANT RESTRAINT SYSTEMS



- Do not allow anyone to lean against the door when the vehicle is in use, since the side airbag and curtain shield airbag could inflate with considerable speed and force. Otherwise, he/she may be killed or seriously injured. Special care should be taken especially when you have a small child in the vehicle.
- Sit up straight and well back in the seat, distributing your weight evenly in the seat. Do not apply excessive weight to the outer side of the seats with a side airbag and to the front pillar, rear pillar and roof side rail with a curtain shield airbag.

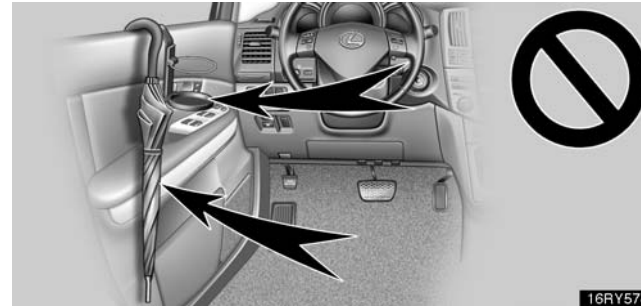


- Do not get allow anyone to get his/her head closer to the area where the side airbag and curtain shield airbag inflate, since these airbags could inflate with considerable speed and force. Otherwise, he/she may be killed or seriously injured. Special care should be taken especially when you have a small child in the vehicle.
- Do not allow anyone to kneel on the passenger seat, facing the passenger's side door, since the side airbag and curtain shield airbag could inflate with considerable speed and force. Otherwise, he/she may be killed or seriously injured. Special care should be taken especially when you have a small child in the vehicle.

OCCUPANT RESTRAINT SYSTEMS



- Do not allow anyone to get his/her head or hands out of windows, since the curtain shield airbags could inflate with considerable speed and force. Otherwise, he/she may be killed or seriously injured. Special care should be taken especially when you have a small child in the vehicle.



- Do not attach a cupholder or any other device or object on or around the door. When the side airbag inflates, the cupholder or any other device or object will be thrown with great force, or the side airbag may not activate correctly, resulting in death or serious injury. Likewise, the driver and front passenger should not hold objects in their arms or on their knees.

OCCUPANT RESTRAINT SYSTEMS



- Do not attach a microphone or any other device or object around the area where the curtain shield airbag activates such as on the windshield glass, side door glass, front and rear pillars, roof side rail and assist grips. When the curtain shield airbag inflates, the microphone or other device or object will be thrown away with great force or the curtain shield airbag may not activate correctly, resulting in death or serious injury.
- Do not hook a hanger, heavy or sharp pointed objects on the coat hook. If the curtain shield airbag inflates, those items will be thrown away with great force or the curtain shield airbag may not activate correctly, resulting in death or serious injury. When you hang clothes, hang them on the coat hook directly.

- Do not use seat accessories which cover the parts where the side airbags inflate. Such accessories may prevent the side airbags from activating correctly, causing death or serious injury.
- Do not modify or replace the seats or upholstery of the seats with side airbags. Such changes may prevent the side airbag system from activating correctly, disable the system or cause the side airbags to inflate accidentally, resulting in death or serious injury.
- Do not disassemble or repair the front and rear pillars and roof side rails containing the curtain shield airbags. Such changes may disable the system or cause the curtain shield airbags to inflate accidentally, resulting in death or serious injury.
- Do not modify or change the suspension system. Such changes may cause the curtain shield airbags to inflate accidentally, which could result in death or serious injury. Consult your Lexus dealer about any repair and modification.
- Do not use tires or wheels other than the manufacturer's recommended size. Such a use may cause the curtain shield airbags and seat belt pretensioners to inflate accidentally, which could result in death or serious injury. For details, see "Checking and replacing tires" on page 572.

OCCUPANT RESTRAINT SYSTEMS

- Do not place luggage heavier than specified on the roof luggage carrier. Such luggage may cause the curtain shield airbags and seat belt pretensioners to inflate accidentally, which could result in death or serious injury. For details, see “Roof luggage carrier” on page 158.

Failure to follow these instructions can result in death or serious injury. Consult your Lexus dealer about any repair and modification.

If you wish to modify your vehicle for a person with a physical disability, consult your Lexus dealer. It may dangerously interfere with the SRS side airbags and curtain shield airbags operation.

NOTICE

Do not perform any of the following changes without consulting your Lexus dealer. Such changes can interfere with proper operation of the SRS side airbag and curtain shield airbag system in some cases.

- *Installation of electronic devices such as a mobile two-way radio, cassette tape player or CD player*
- *Modification of the suspension system*
- *Modification of the structure of the passenger compartment*
- *Repairs made on or near the console or front seat*

OCCUPANT RESTRAINT SYSTEMS



The indicator comes on when the ignition key is turned to the "ON" position. It goes off after about 6 seconds. This means the SRS side airbags and curtain shield airbags are operating properly.

This warning light system monitors the airbag sensor assembly, front airbag sensors, side and curtain shield airbag sensor assemblies, curtain shield airbag sensor assemblies, driver's seat position sensor, driver's seat belt buckle switch, front passenger occupant classification system, "AIRBAG ON" indicator light, "AIRBAG OFF" indicator light, front passenger's seat belt buckle switch, front seat belt pretensioner assemblies, inflators, warning light, interconnecting wiring and power sources. (For details, see "Service reminder indicators and warning buzzers" on page 86 for instructions.)

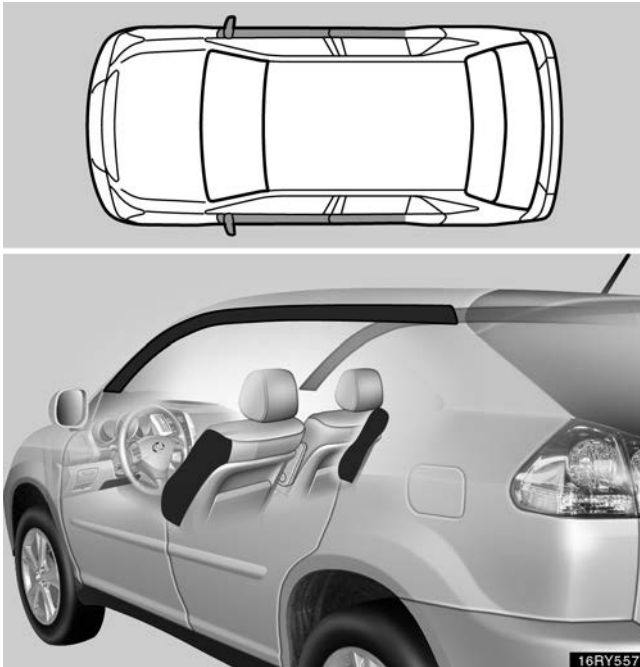
If any of the following conditions occurs, this indicates a malfunction of the airbags or seat belt pretensioners. Contact your Lexus dealer as soon as possible.

- The light does not come on when the ignition key is turned to the "ON" position or remains on for more than 6 seconds or flashes.
- The light comes on or starts flashing while driving.

If the light stays on, it indicates that the SRS driver and front passenger airbag and/or front passenger occupant classification system, "AIRBAG ON" indicator light and "AIRBAG OFF" indicator light have a problem. If the light flashes, the SRS side and curtain shield airbags have a problem.

The SRS warning light and "AIRBAG OFF" indicator light will be illuminated if there is a malfunction in the front passenger occupant classification system.

OCCUPANT RESTRAINT SYSTEMS



In the following cases, contact your Lexus dealer as soon as possible:

- Any of the SRS side airbags and curtain shield airbags have been inflated.

- The portion of the doors (shaded in the illustration) was involved in an accident that was not severe enough to cause the SRS side airbags and curtain shield airbags to inflate.
- The surface of the seats with the side airbag (shaded in the illustration) 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 (shaded in the illustration) is scratched, cracked, or otherwise damaged.

NOTICE

Do not disconnect the battery cables before contacting your Lexus dealer.

FRONT PASSENGER OCCUPANT CLASSIFICATION SYSTEM

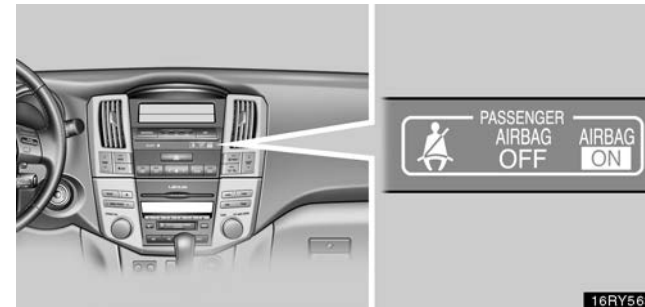
Your vehicle is equipped with a front passenger occupant classification system. This system detects the conditions 1 — 4 in the table shown below, and based on these conditions activates or deactivates the following systems.

- Front passenger airbag
- Side airbag on the front passenger seat
- Front passenger's seat belt pretensioner

The system monitors the weight and load on the front passenger seat, and the seat belt buckle switch in determining conditions 1 — 4.

In order for the system to detect the conditions correctly, do not do any of the following:

- Apply a heavy load to the front passenger seat or equipment (e.g. seatback pocket).
- Attach a seatback table to the front passenger seatback.
- Put weight on the front passenger by putting your hands or feet on the front passenger seat seatback from the rear passenger seat.



► “AIRBAG ON” and “AIRBAG OFF” indicator and front passenger's seat belt reminder light



► SRS warning light

OCCUPANT RESTRAINT SYSTEMS

The “AIRBAG OFF” indicator light will be illuminated when the ignition switch is in the “ON” position and a child restraint system is in the front passenger seat (see table–condition 2). This indicates that in the event of a severe frontal or passenger’s side impact, the front passenger airbag and side airbag on the front passenger seat are deactivated and will not deploy.

If the front passenger occupant classification system determines that a person of adult size sits in the front passenger seat but the “AIRBAG OFF” indicator light is illuminated, one of the following is likely to have occurred:

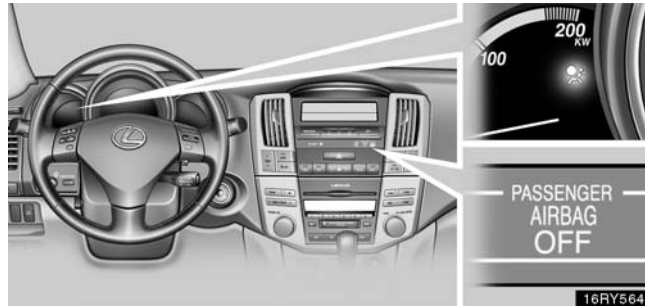
- The rear passenger lifts the front passenger seat cushion with their legs.
- Objects are placed under the front passenger seat.
- A front passenger seat seatback is in contact with a rear seat.

To ensure the system correctly detects an adult sitting in the front passenger seat, make sure the above do not happen.

Make sure the “AIRBAG ON” indicator light is illuminated when an adult sits in the front passenger seat. If the “AIRBAG OFF” indicator light is illuminated, ask the passenger to sit up straight, well back in the seat, and with the seat belt worn correctly. If the “AIRBAG OFF” indicator light 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.

The “AIRBAG OFF” and “AIRBAG ON” indicator lights will be initially illuminated when the ignition switch is turned to the “ON” position. It will remain for about four seconds and then go off. After the two seconds, the front passenger occupant classification system operates and judges which indicator light to turn on.

OCCUPANT RESTRAINT SYSTEMS



The SRS warning light and “AIRBAG OFF” indicator light will be illuminated if there is a malfunction in the front passenger occupant classification system.

OCCUPANT RESTRAINT SYSTEMS

Condition and operation in the front passenger occupant classification system

Condition detected by the front passenger occupant classification system	Indicator/warning light			Devices			
	"AIRBAG ON" and "AIRBAG OFF" indicator lights	SRS warning light	Front passenger's seat belt reminder light	Front passenger airbag	Side airbag on the front passenger seat	Curtain shield airbag in the front passenger side	Front passenger's seat belt pretensioner
1 Adult*1	"AIRBAG ON"	Off	Flashing*4	Activated			
2 Child*2 or child restraint system*3	"AIRBAG OFF"	Off	Flashing*4	Deactivated	Activated		Activated
3 Unoccupied	Not illuminated	Off	Off	Deactivated			Deactivated
4 There is a malfunction in the system	"AIRBAG OFF"	On	Off	Deactivated			Activated

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

*2: 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.

*3: 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. (See "Child restraint system" as for installing the child restraint system.)

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

OCCUPANT RESTRAINT SYSTEMS

CAUTION

To avoid potential death or serious injury when the front passenger occupant classification system does not detect the conditions correctly, observe the following.

- Wear the seat belt properly.
- Make sure the front passenger's seat belt tab has not been left inserted into the buckle before someone sits in the front passenger seat.
- Make sure the "AIRBAG OFF" indicator light is not illuminated when using the seat belt extender for the front passenger seat. If the "AIRBAG OFF" indicator light is illuminated, disconnect the extender tongue from the seat belt buckle, then reconnect the seat belt. Reconnect the seat belt extender after making sure the "AIRBAG ON" indicator light is illuminated. If you use the seat belt extender while the "AIRBAG OFF" indicator light is illuminated, the front passenger airbag and side airbag on the front passenger side may not activate correctly, which could cause death or serious injury in the event of collision.

- Do not apply a heavy load to the front passenger seat or equipment (e.g. seatback pocket).
 - Do not put weight on the front passenger seat by putting your hands or feet on the front passenger seat seatback from the rear passenger seat.
 - Do not let a rear passenger lift the front passenger seat with their feet or press on the seatback with their legs.
 - Do not put objects under the front passenger seat.
 - Do not recline the front passenger seatback so far that it touches a rear seat. This may cause the "AIRBAG OFF" indicator light to be illuminated, which indicates that the passenger's airbags will not deploy in the event of a severe accident. If the seatback touches the rear seat, return the seatback to a position where it does not touch the rear seat.
- Keep the front passenger seatback as upright as possible when the vehicle is moving. Reclining the seatback excessively may lessen the effectiveness of the seat belt system.

OCCUPANT RESTRAINT SYSTEMS

- If an adult sits in the front passenger seat, the “AIRBAG ON” indicator light is illuminated. If the “AIRBAG OFF” indicator is illuminated, ask the passenger to sit up straight, well back in the seat, feet on the floor, and with the seat belt worn correctly. If the “AIRBAG OFF” indicator still remain illuminated, either ask the passenger to move to the rear seat, or if that is not possible, move the front passenger seat fully rearward.
- When it is unavoidable to install the forward-facing child restraint system on the front passenger seat, install the child restraint system on the front passenger seat in the proper order. (As for the installation order, see “Child restraint system” on page 222.)
- Do not remove the seat.
- 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.

In addition to the precautions outlined above, the “AIRBAG ON” indicator light may be illuminated when a child sits in the front passenger seat or a forward-facing child restraint system is installed in the front passenger seat. If the “AIRBAG ON” indicator light is illuminated in these circumstances, the front passenger airbag and side airbag on the front passenger side are in an activated condition — the airbags will deploy if an impact meets the deployment criteria. Refer to all the cautions in this Section and “Child restraint system” on page 222.

CHILD RESTRAINT

Child restraint precautions

Lexus strongly urges the use of child restraint systems for children small enough to use them.

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

Your vehicle conforms to SAE J1819.

If a child is too large for a child restraint system, the child should sit in the rear seat and must be restrained using the vehicle's seat belt. See "Seat belts" on page 176 for details.



CAUTION

- For effective protection in automobile accidents and sudden stops, a child must be properly restrained, using a seat belt or child restraint system depending on the age and size of the child. Holding a child in your arms is not a substitute for a child restraint system. In an accident, the child can be crushed against the windshield, or between you and the vehicle's interior.
- Lexus strongly urges use of a proper child restraint system which conforms to the size of the child, installed on the rear seat. According to accident statistics, the child is safer when properly restrained in the rear seat than in the front seat.
- Never install a rear-facing child restraint system on the front passenger seat even if the "AIRBAG OFF" indicator light is illuminated. In the event of an accident, the force of the rapid inflation of the front passenger airbag can cause death or serious injury to the child if the rear-facing child restraint system is installed on the front passenger seat.
- Only when it is unavoidable should a forward-facing child restraint system be installed on the front passenger seat. Always move the seat as far back as possible even if the "AIRBAG 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.

OCCUPANT RESTRAINT SYSTEMS

- On vehicles with side airbags and curtain shield airbags, 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 or rear pillar or roof side rail from which the side airbags or curtain shield airbags deploy even if the child is seated in the child restraint system. It is dangerous if the side airbags and curtain shield airbags inflate, and the impact could cause death or serious injury to the child.
- Do not use the seat belt extender when installing a child restraint system on the front or rear passenger seat. If installing a child restraint system with the seat belt extender connected to the seat belt, the seat belt will not securely hold the child restraint system, which could cause death or serious injury to the child or other passengers in the event of collision.
- Make sure you have complied with all installation instructions provided by the child restraint manufacturer and that the system is properly secured. If it is not secured properly, it may cause death or serious injury to the child in the event of a sudden stop or accident.

Child restraint system

A child restraint system for a small child or baby must itself be properly restrained on the seat with the lap portion of the lap/shoulder belt. You must carefully consult the manufacturer's instructions which accompany the child restraint system.

To provide proper restraint, use a child restraint system following the manufacturer's instructions about the appropriate age and size of the child for the child restraint system.

Install the child restraint system correctly following the instructions provided by its manufacturer. General directions are also provided under the following illustrations.

The child restraint system should be 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.

When not using the child restraint system, keep it secured with the seat belt or place it somewhere other than the passenger compartment. This will prevent it from injuring passengers in the event of a sudden stop or accident.

OCCUPANT RESTRAINT SYSTEMS

Types of child restraint system

Child restraint systems are classified into the following 3 types depending on the child's age and size.

- (A) Infant seat
- (B) Convertible seat
- (C) Booster seat

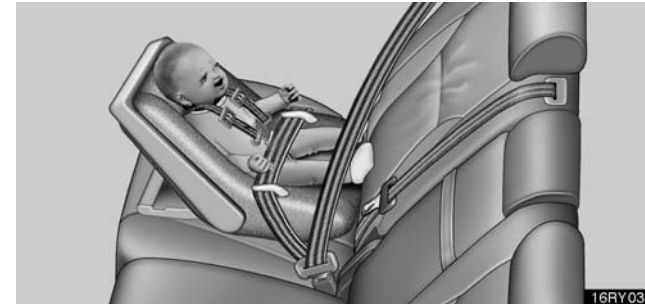
Install the child restraint system following the instructions provided by its manufacturer.

Your vehicle has anchor brackets for securing the top strap of a child restraint system.

For instructions about how to use the anchor bracket, see "Using a top strap" on page 240.

The child restraint lower anchorages approved for your vehicle may also be used. See "Installation with child restraint lower anchorages" on page 243 for instructions.

(A) Infant seat



(B) Convertible seat



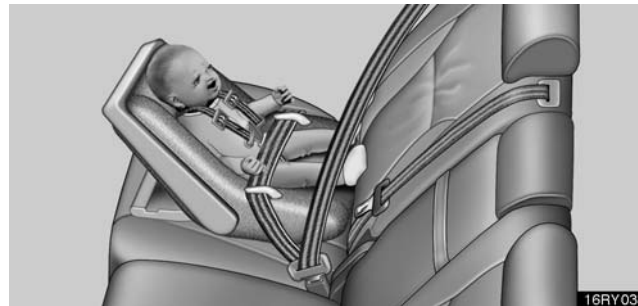
OCCUPANT RESTRAINT SYSTEMS

(C) Booster seat



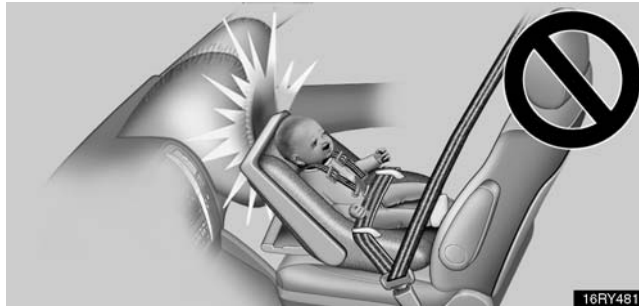
INSTALLATION WITH 3-POINT TYPE SEAT BELT

(A) Infant seat installation



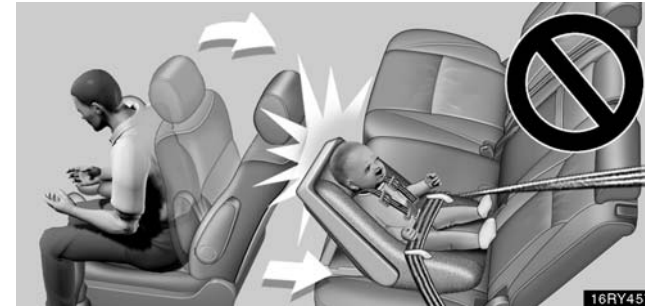
An infant seat must be used in rear-facing position only.

OCCUPANT RESTRAINT SYSTEMS



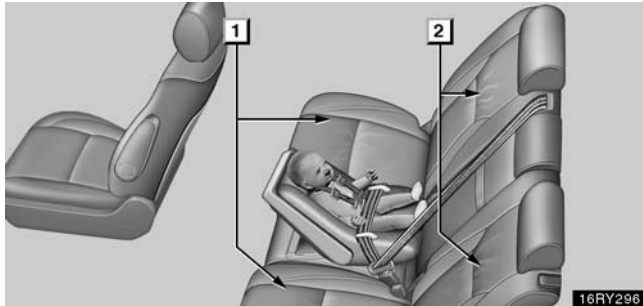
CAUTION

- Never install a rear-facing child restraint system on the front passenger seat even if the "AIRBAG OFF" indicator light is illuminated. In the event of an accident the force of the rapid inflation of the front passenger airbag can cause death or serious injury to the child if the rear-facing child restraint system is installed on the front passenger seat.



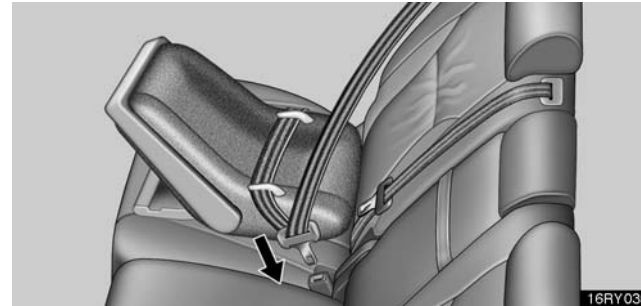
- If the driver's seat position does not allow sufficient space for safe installation, install the child restraint system on the rear right seat. Child restraint system installed on the rear seat should not contact the front seatbacks.

OCCUPANT RESTRAINT SYSTEMS



- **1 Same position** **2 Same angle**

- When installing a child restraint system in the rear center position, adjust both seat cushions to the same position and align both seatbacks at the same angle. Otherwise, the child restraint system cannot be securely restrained and this may cause death or serious injuries in a collision.

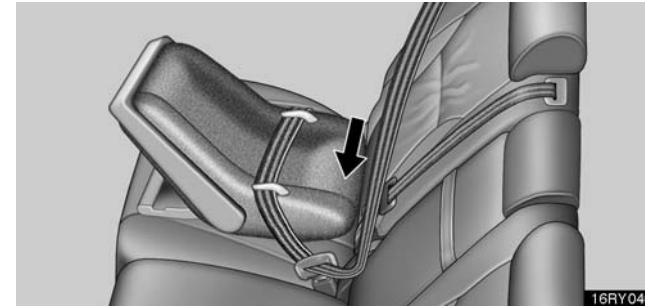


1. Run the lap and shoulder belt through or around the infant seat following the instructions provided by its manufacturer and insert the tab into the buckle taking care not to twist the belt. Keep the lap portion of the belt tight.

OCCUPANT RESTRAINT SYSTEMS

CAUTION

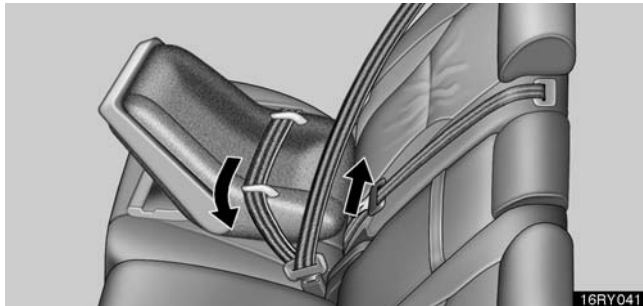
- After inserting the tab, make sure the tab and buckle are locked and that the lap and shoulder portions of the belt are not twisted.
- Do not insert coins, clips, etc. in the buckle as this may prevent your child from properly latching the tab and buckle.
- If the seat belt does not function normally, it cannot protect your child from death or serious injury. Contact your Lexus dealer immediately. Do not install the child restraint system on the seat until the seat belt is fixed.



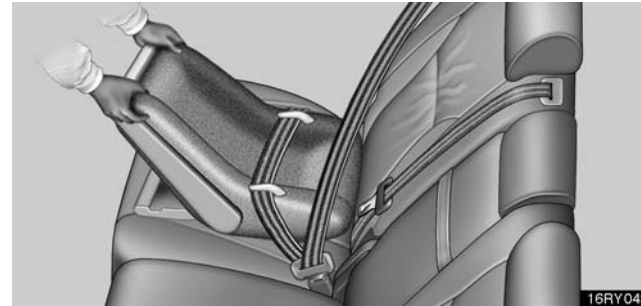
2. Fully extend the shoulder belt to put it in the lock mode. When the belt is then retracted even slightly, it cannot be extended.

To hold the infant seat securely, make sure the belt is in the lock mode before letting the belt retract.

OCCUPANT RESTRAINT SYSTEMS



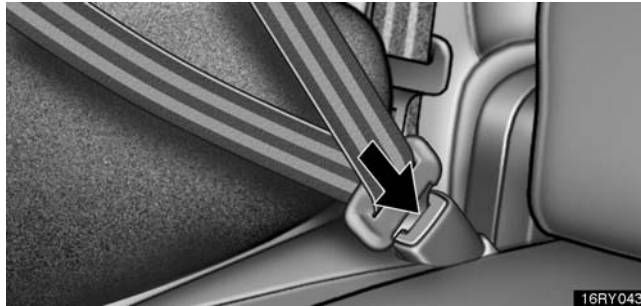
3. While pressing the infant seat firmly against the seat cushion and seatback, let the shoulder belt retract as far as it will go to hold the infant seat securely.



CAUTION

Push and pull the child restraint system in different directions to be sure it is secure. Follow all the installation instructions provided by its manufacturer.

OCCUPANT RESTRAINT SYSTEMS



4. To remove the infant seat, press the buckle release button and allow the belt to retract completely. The belt will move freely again and be ready to work for an adult or older child passenger.

(B) Convertible seat installation



A convertible seat must be used in forward-facing or rear-facing position depending on the age and size of the child. When installing, follow the manufacturer's instructions about the appropriate age and size of the child as well as directions for installing the child restraint system.

Install the child restraint system on the front passenger seat only when it is unavoidable. Your vehicle is equipped with a front passenger occupant classification system. In order to activate the occupant classification system correctly, install the forward-facing child restraint system on the front passenger seat in the following order:

1. Turn the ignition key to the "ON" position.
2. Move the front passenger seat to the rearward position.
3. Put the child restraint system on the front passenger seat without putting your weight on the front passenger seat.
4. Insert the seat belt tab into the seat belt buckle.

OCCUPANT RESTRAINT SYSTEMS

5. Fully extend the shoulder belt to put it in the lock mode. When the belt is then retracted even slightly, it cannot be extended. To hold the seat securely, make sure the belt is in the lock mode before letting the belt retract.

6. While pressing the convertible seat firmly against the seat cushion and seatback, let the shoulder belt retract as far as it will go to hold the convertible seat securely.



CAUTION

Push and pull the child restraint system in different directions to be sure it is secure. Follow all the installation instructions provided by its manufacturer.

7. Put a child on the child restraint system and secure the child, complying with the instructions provided by the child restraint system manufacturer.

The “AIRBAG OFF” indicator light is illuminated when the ignition key is “ON” and the child is in the child restraint system after following these procedures. The “AIRBAG OFF” indicator light indicates the SRS front passenger airbag and side airbag on the passenger side will not deploy. If the “AIRBAG ON” indicator light is illuminated, remove the child restraint system and reinstall it with the ignition key in the “ACC” or “LOCK” position. If the indicator light is not illuminated when the ignition key is turned to the “ON” position, then the SRS front passenger airbag and side airbag on the passenger side may deploy in an accident. Do not drive the vehicle in this condition. Remove the child restraint system and contact your Lexus dealer.



CAUTION

When it is unavoidable to install the forward-facing child restraint system on the front passenger seat, install the child restraint system on the front passenger seat in the proper order. Otherwise, the front passenger occupant classification system can not detect the presence of the child restraint system and the front passenger airbag and side airbag on the front passenger seat could deploy.

OCCUPANT RESTRAINT SYSTEMS



- Never install a rear-facing child restraint system on the front passenger seat even if the "AIRBAG OFF" indicator light is illuminated. In the event of an accident the force of the rapid inflation of the front passenger airbag can cause death or serious injury to the child if the rear-facing child restraint system is installed on the front passenger seat.



► *Move seat fully back*

- A forward-facing child restraint system should be allowed to be installed on the front passenger seat only when it is unavoidable. Always move the seat as far back as possible even if the "AIRBAG OFF" indicator light is illuminated, because the front passenger airbag inflates with considerable speed and force. Otherwise, the child may be killed or seriously injured.

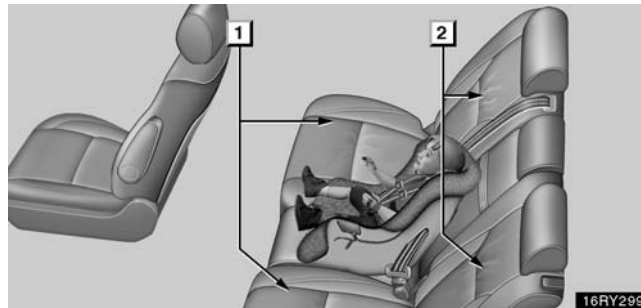
OCCUPANT RESTRAINT SYSTEMS

- On vehicles with side airbags and curtain shield airbags, 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 or rear pillar, or roof side rail from which the side airbags or curtain shield airbags deploy even if the child is seated in the child restraint system. It is dangerous if the side airbag and curtain shield airbag inflate, and the impact could cause death or serious injury to the child.



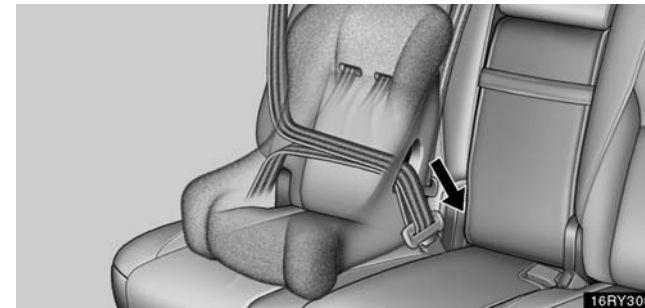
- If the driver's seat position does not allow sufficient space for safe installation, install the child restraint system on the rear right seat. Child restraint system installed on the rear seat should not contact the front seatbacks.

OCCUPANT RESTRAINT SYSTEMS



- **1 Same position** **2 Same angle**

- When installing a child restraint system in the rear center position, adjust both seat cushions to the same position and align both seatbacks at the same angle. Otherwise, the child restraint system cannot be securely restrained and this may cause death or serious injuries in a collision.



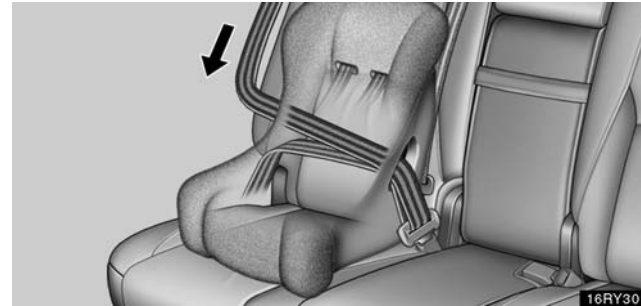
1. Run the lap and shoulder belt through or around the convertible seat following the instructions provided by its manufacturer and insert the tab into the buckle taking care not to twist the belt. Keep the lap portion of the belt tight.

OCCUPANT RESTRAINT SYSTEMS



CAUTION

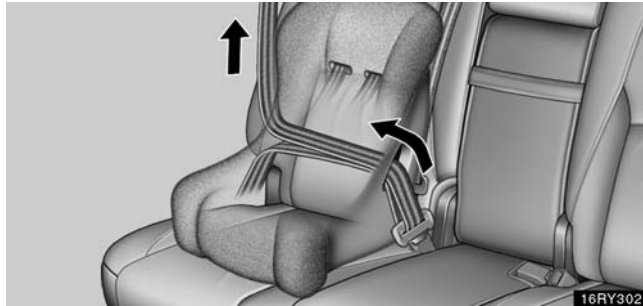
- After inserting the tab, make sure the tab and buckle are locked and that the lap and shoulder portions of the belt are not twisted.
- Do not insert coins, clips, etc. in the buckle as this may prevent your child from properly latching the tab and buckle.
- If the seat belt does not function normally, it cannot protect your child from death or serious injury. Contact your Lexus dealer immediately. Do not install the child restraint system on the seat until the seat belt is fixed.



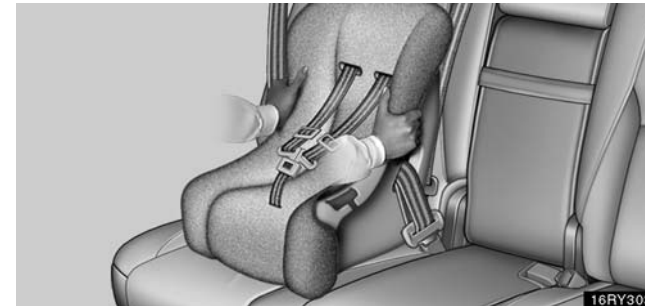
2. Fully extend the shoulder belt to put it in the lock mode. When the belt is then retracted even slightly, it cannot be extended.

To hold the convertible seat securely, make sure the belt is in the lock mode before letting the belt retract.

OCCUPANT RESTRAINT SYSTEMS



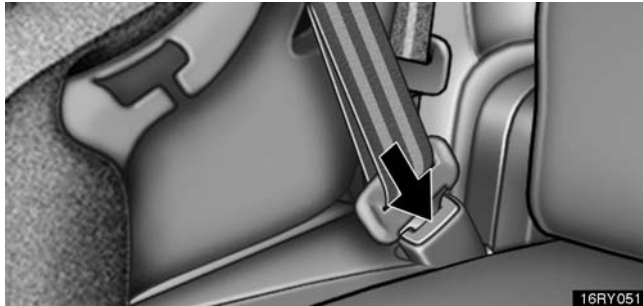
3. While pressing the convertible seat firmly against the seat cushion and seatback, let the shoulder belt retract as far as it will go to hold the convertible seat securely.



CAUTION

Push and pull the child restraint system in different directions to be sure it is secure. Follow all the installation instructions provided by its manufacturer.

OCCUPANT RESTRAINT SYSTEMS



4. To remove the convertible seat, press the buckle release button and allow the belt to retract completely. The belt will move freely again and be ready to work for an adult or older child passenger.

(C) Booster seat installation



A booster seat must be used in forward-facing position only.

OCCUPANT RESTRAINT SYSTEMS



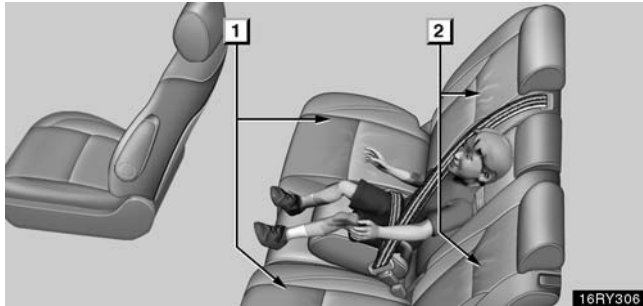
► *Move seat fully back*

- On vehicles with side airbags and curtain shield airbags, 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 or rear pillar or roof side rail from which the side airbags or curtain shield airbags deploy even if the child is seated in the child restraint system. It is dangerous if the side airbag and curtain shield airbag inflate, and the impact could cause death or serious injury to the child.

CAUTION

- A forward-facing child restraint system should be allowed to be installed on the front passenger seat only when it is unavoidable. Always move the seat as far back as possible even if the "AIRBAG 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.

OCCUPANT RESTRAINT SYSTEMS



► **1** *Same position* **2** *Same angle*

- **When installing a child restraint system in the rear center position, adjust both seat cushions to the same position and align both seatbacks at the same angle. Otherwise, the child restraint system cannot be securely restrained and this may cause death or serious injuries in a collision.**



1. Sit the child on a booster seat. Run the lap and shoulder belt through or around the booster seat and child following the instructions provided by its manufacturer and insert the tab into the buckle taking care not to twist the belt.

Make sure the shoulder belt is correctly across the child's shoulder and that the lap belt is positioned as low as possible on the child's hips. See "Seat belts" on page 176 for details.

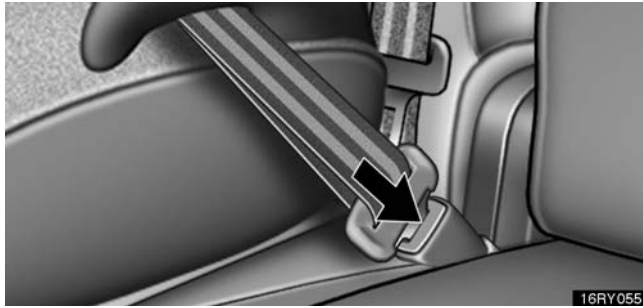
OCCUPANT RESTRAINT SYSTEMS

CAUTION

- Always make sure the shoulder belt is positioned across the center of child's shoulder. The belt should be kept away from child's neck, but not falling off child's shoulder. Otherwise, the child may be killed or seriously injured in case of sudden braking or a collision.
- Both high-positioned lap belts and loose-fitting belts could cause death or serious injuries due to sliding under the lap belt during a collision or other unintended event. Keep the lap belt positioned as low on a child's hips as possible.
- For child's safety, do not place the shoulder belt under child's arm.
- After inserting the tab, make sure the tab and buckle are locked and that the lap and shoulder portions of the belt are not twisted.

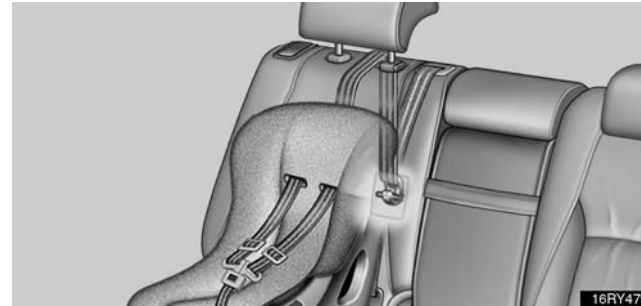
- Do not insert coins, clips, etc. in the buckle as this may prevent your child from properly latching the tab and buckle.
- If the seat belt does not function normally, it cannot protect your child from death or serious injury. Contact your Lexus dealer immediately. Do not install the child restraint system on the seat until the seat belt is fixed.

OCCUPANT RESTRAINT SYSTEMS



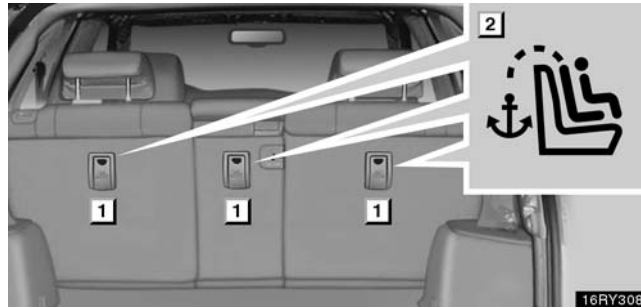
2. To remove the booster seat, press the buckle release button and allow the belt to retract.

Using a top strap



Follow the procedure below for a child restraint system that requires the use of a top strap.

OCCUPANT RESTRAINT SYSTEMS

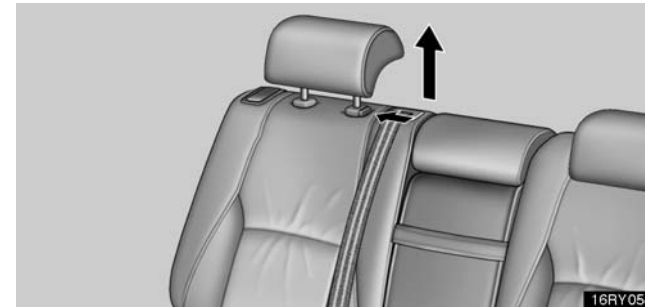


- **1** *Anchor brackets* **2** *Symbol mark*

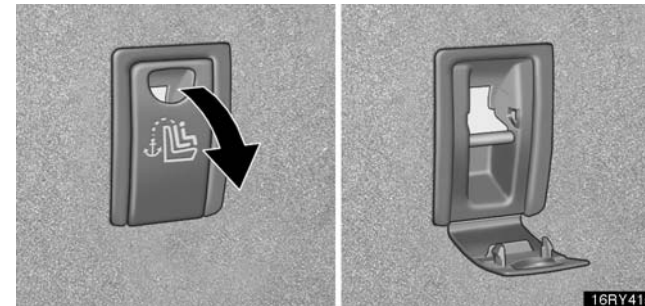
Use the anchor brackets on the back of the rear seatback to attach the top strap.

Anchor brackets are installed for each rear seating position.

This symbol mark indicates the location of the anchor brackets.

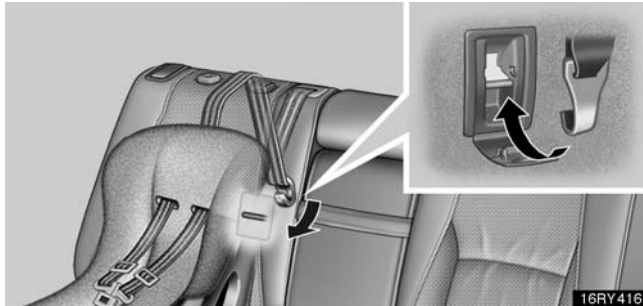


- 1. Remove the head restraint.**



- 2. Open the cover of the anchor bracket.**

OCCUPANT RESTRAINT SYSTEMS



3. Fix the child restraint system with the seat belt.

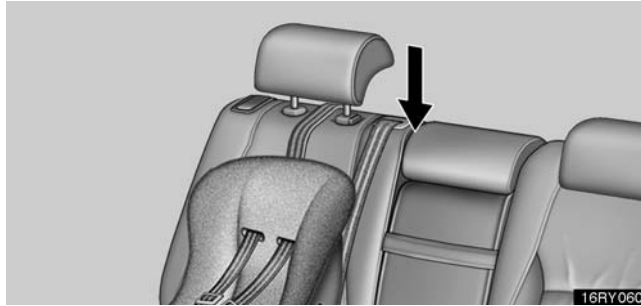
4. Latch the hook onto the anchor bracket and tighten the top strap.

For instructions to install the child restraint system, see “Child restraint system” on page 222.

CAUTION

Make sure the top strap is securely latched, and check that the child restraint system is secure by pushing and pulling it in different directions. Follow all the installation instructions provided by its manufacturer.

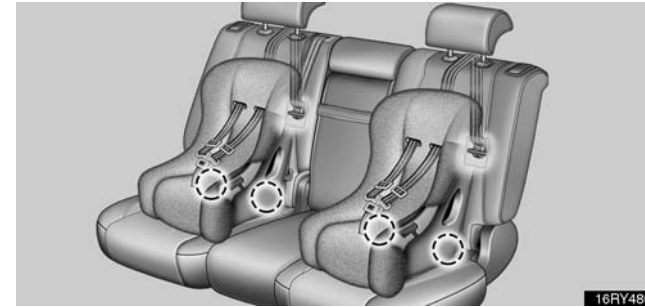
OCCUPANT RESTRAINT SYSTEMS



5. Replace the head restraint and lift it up to the uppermost lock position.

Be sure to close the cover when the anchor bracket is not in use.

Installation with child restraint lower anchorages



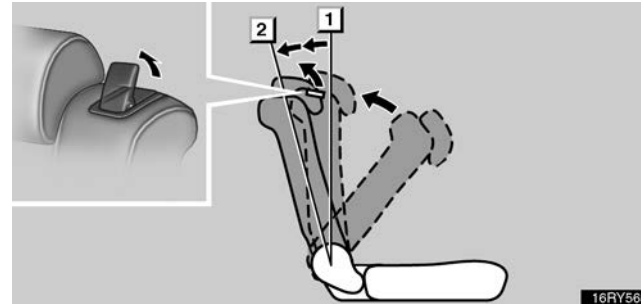
Lower anchorages for the child restraint systems complying with the FMVSS225 or CMVSS210.2 specifications are installed in the rear seat.

The anchorages are installed in the seat cushion of the right side seating position and between the center and left side seating position.

OCCUPANT RESTRAINT SYSTEMS

Child restraint system complying with the FMVSS213 or CMVSS213 specification can be fixed to these anchorages. In this case, it is not necessary to fix the child restraint system with a seat belt on the vehicle.

CHILD RESTRAINT SYSTEM INSTALLATION

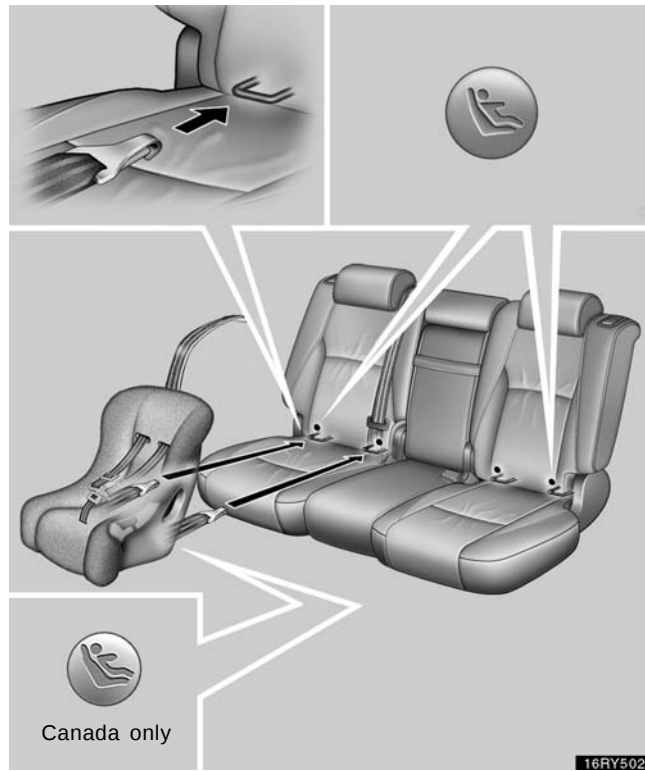


- **1** 1st lock position
- 2** 3rd lock position

1. Fold the seatback forward and then back to the 1st lock position (most upright position) until it locks into place. Adjust the seatback to the 3rd lock position.

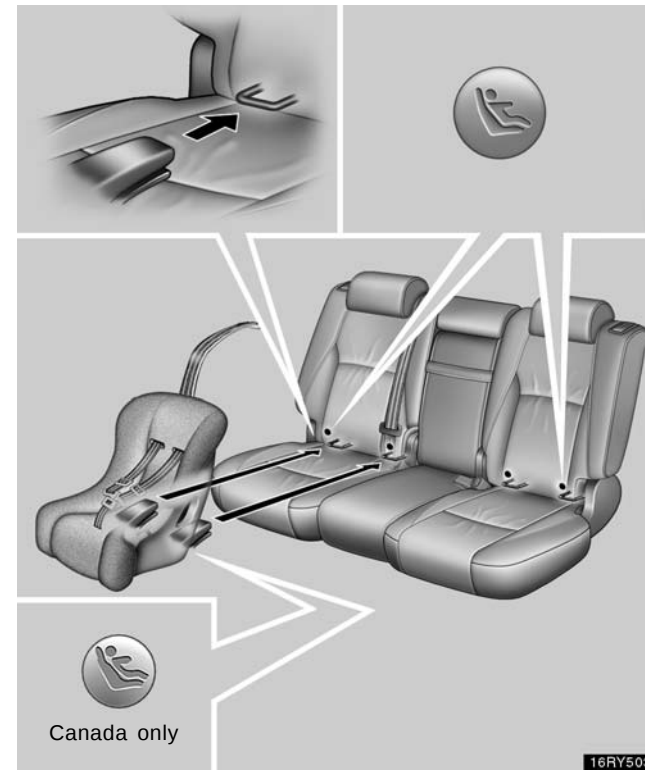
Make sure the seatback is locked securely.

OCCUPANT RESTRAINT SYSTEMS



► **Type A**

16RY502



► **Type B**

16RY503

OCCUPANT RESTRAINT SYSTEMS

2. Widen the gap between the seat cushion and seatback slightly and confirm the position of the lower anchorages near the button on the seatback.

3. Type A — Latch the hooks of lower straps onto the anchorages and tighten the lower straps.

3. Type B — Latch the buckles onto the anchorages.

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

If your child restraint system has a top strap, it should be anchored. (For the installation of the top strap, see “Using a top strap” on page 240.)

For installation details, refer to the instruction manual equipped with each product.

CAUTION

- When using the lower anchorages for the child restraint system, be sure that there are no irregular objects around the anchorages or that the seat belt is not caught.
- Push and pull the child restraint system in different directions to be sure it is secure. Follow all the installation instructions provided by its manufacturer.
- When using the lower anchorages for a child restraint system, ensure that the seat is moved to the rear-most position, with the seatback close to the child restraint system.

- After securing the child restraint system, never slide or recline the seat.
- Do not install a child restraint system on the rear seat if it interferes with the lock mechanism of the front seats. This can cause death or serious injury to the child and front passenger in case of sudden braking or a collision.

DRIVING POSITION MEMORY SYSTEM

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

Recording a driving position in the computer's memory can only be done when the ignition key is in the "ON" position and the selector lever is in the "P" position.

OCCUPANT RESTRAINT SYSTEMS

Setting the driving position



1. Adjust the driver's seat, tilt and telescopic steering and outside rear view mirrors to the desired position.
2. While pushing the "SET" button, push button "1" or "2" until the signal beeps.

The beep sound means that the positions are recorded in the computer's memory.

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

To set a new memorized position, select the desired position and perform step 2. The previous memory will be erased and the new position will be set.

To make only slight changes to an already memorized position, the easiest way is to first activate the memorized position, then make the desired changes and perform step 2 above.

Recalling the memorized position



When you push button "1" or "2", the driving position will be automatically adjusted to the position recorded for that button.

OCCUPANT RESTRAINT SYSTEMS

Conditions for memorized position activation

- Ignition key “ON” and selector lever in “P” position.
All parts of the memorized positions can be activated.
- Key not in ignition switch and within 30 seconds of opening driver’s door.
The memorized position can be activated, except for the tilt and telescopic steering.

If any driving position memory switch is pushed while one of the memorized driving position profiles is being activated, the operation will stop.

To activate the system, push the desired button (“1” or “2”) again.

The driving position memory control system cannot be operated while the vehicle is moving.

If the auxiliary battery is disconnected, the computer’s memory will be erased and the memorized positions will have to be set again.



CAUTION

- Do not start the vehicle while the adjustments are being made.
- Take care not to select the wrong button, or the seat could strike the rear passenger or hit your body against the steering wheel. If this happens, you can stop the movement by pressing another driving position memory switch.

SECTION 1 - 7

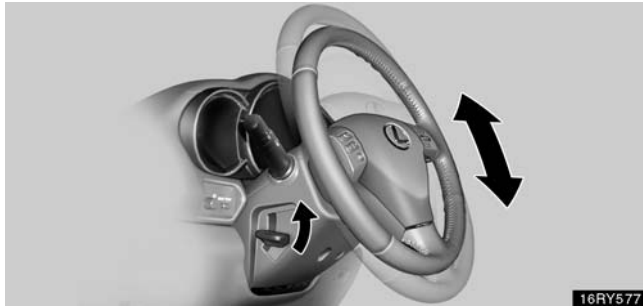
INSTRUMENTS AND CONTROLS

Steering wheel and mirrors

Steering wheel (tilt type)	252
Steering wheel (tilt and telescopic type)	253
Outside rear view mirrors	254
Inside rear view mirror	257
Vanity mirrors	263

STEERING WHEEL AND MIRRORS

STEERING WHEEL (tilt type)



To change the steering wheel angle, hold the steering wheel, pull up the lock release lever, tilt the steering wheel to the desired angle and release the lever.

When the steering wheel is in a low position, it will spring up as you release the lock release lever.

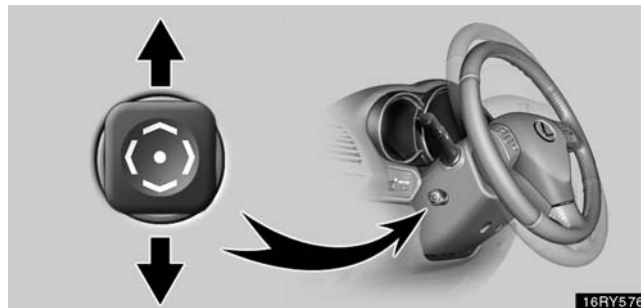
CAUTION

- Do not adjust the steering wheel while the vehicle is moving. Doing so may cause the driver to mishandle the vehicle and an accident may occur resulting in death or serious injuries.
- After adjusting the steering wheel, try moving it up and down to make sure it is locked in position.

STEERING WHEEL AND MIRRORS

STEERING WHEEL (tilt and telescopic type)

Adjustment of steering wheel tilt

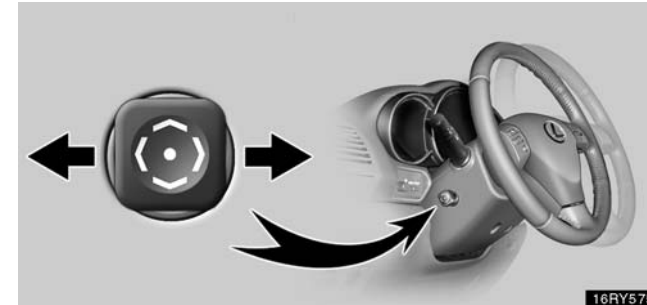


To adjust the tilt of the steering wheel, push the control switch upward or downward to set it to the desired position.

CAUTION

Do not adjust the steering wheel while the vehicle is moving. Doing so may cause the driver to mishandle the vehicle and an accident may occur resulting in death or serious injuries.

Adjustment of telescopic steering column



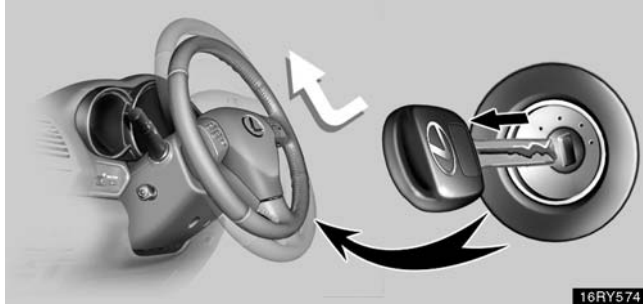
To adjust the steering column length, push the control switch forward or backward to set the steering wheel to the desired position.

CAUTION

Do not adjust the steering column while the vehicle is moving. Doing so may cause the driver to mishandle the vehicle and an accident may occur resulting in death or serious injuries.

STEERING WHEEL AND MIRRORS

Automatic tilt-away steering column*



When the ignition key is removed, the steering column moves forward away from the driver and also tilts up for easy exit and entry.

When the key is inserted in the ignition switch, the steering column returns to the previously set position.

NOTE:

* This feature can be deactivated.
Ask your Lexus dealer for details.

OUTSIDE REAR VIEW MIRRORS



Adjust the mirror so that you can just see the side of your vehicle in the mirror.

When the inside rear view mirror darkens in AUTO mode, the outside rear view mirrors also darken to reduce the reflection of the headlights of the following vehicle. For details, see "Inside rear view mirror" on page 257.

When you push the rear window and outside rear view mirror defogger switch, the heater panels in the outside rear view mirrors will quickly clear the mirror surface. (See "Rear window and outside rear view mirror defogger, and windshield wiper de-icer switch" on page 75.)

STEERING WHEEL AND MIRRORS

CAUTION

- Do not adjust the mirror while the vehicle is moving. Doing so may cause the driver to mishandle the vehicle and an accident may occur, resulting in death or serious injuries.
- Since the mirror surfaces can get hot, do not touch them when the rear window and outside rear view mirror defogger switch is on.

Power rear view mirror control



► **1** Master switch

2 Control switch

Pull down the switch cover.

To adjust the power rear view mirror, first push the “L” (left) or “R” (right) of the master switch, and push the control switch on the desired side.

The power rear view mirror can be adjusted when the key is in the “ACC” or “ON” position.

STEERING WHEEL AND MIRRORS

Vehicles with driving position memory system —

When the automatic transmission selector lever is shifted into “R” position with the master switch in the “L” or “R” position, the rear view mirrors automatically down to help backing up.

The mirrors return to the previous position in the following operations.

- Shift the transmission lever out of “R” position.
- Place the master switch in the neutral position.

NOTICE

If ice should jam the mirror, do not operate the control or scrape the mirror face. Use a spray de-icer to free the mirror.

Folding rear view mirrors



To fold the rear view mirror, push backward.

The rear view mirrors can be folded backward for parking in restricted areas.

CAUTION

Do not drive with the mirrors folded backward. Both the driver and passenger side rear view mirrors must be extended and properly adjusted before driving.

STEERING WHEEL AND MIRRORS

INSIDE REAR VIEW MIRROR



Adjust the mirror so that you can just see the rear of your vehicle in the mirror.

Pushing the “MIRROR” switch changes the mode between AUTO and DAY.

The indicator comes on when the AUTO mode is selected.

DAY mode: The mirror surface is normal.

AUTO mode: If the mirror detects light from the headlights of the vehicle behind you, the mirror surface darkens slightly to reduce the reflected light.

When the inside rear view mirror surface changes, the outside rear view mirror surfaces will also become darker.

When the ignition is turned on, the inside rear view mirror always turns on in the AUTO mode.

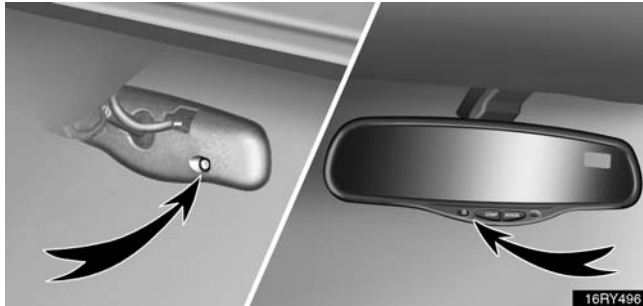
When the outside air temperature is low, it may take a little longer for the mirror to darken in response to the detection of headlights.



CAUTION

Do not adjust the mirror while the vehicle is moving. Doing so may cause the driver to mishandle the vehicle and an accident may occur resulting in death or serious injuries.

STEERING WHEEL AND MIRRORS



To ensure correct functioning of anti-glare mirror sensors located on both sides of the mirror, do not touch or cover the sensors with your finger or a piece of cloth, etc.

Compass



The compass indicates the direction in which the vehicle is heading. The illustration shown above indicates the vehicle is heading north.

Push the “COMP” switch to turn the compass system on and off.

If the ignition switch was turned off with the system on, the system will automatically turn back on when the ignition switch is turned on.

STEERING WHEEL AND MIRRORS

Displays	Directions
N	North
NE	Northeast
E	East
SE	Southeast
S	South
SW	Southwest
W	West
NW	Northwest

The compass may not show the correct direction in the following conditions:

- The vehicle is stopped immediately after turning.
- The ignition switch is turned off 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 parking, under a steel tower, between buildings, roof parking, near a crossing, near a large vehicle, etc.).
- The vehicle is magnetized. (There is a magnet or a metal object on or near the inside rear view mirror.)
- The auxiliary battery has been disconnected.

If your vehicle is out of the set zone, refer to "Calibrating the compass" in this Section to set the zone number.

If the deviation is small, the compass works to calibrate the direction automatically while the vehicle is in motion.

For obtaining additional precision or for complete calibrating, see "Calibrating the compass" below.

If the direction is not indicated or the system does not operate properly, contact your Lexus dealer.

STEERING WHEEL AND MIRRORS



► **Compass sensor**

NOTICE

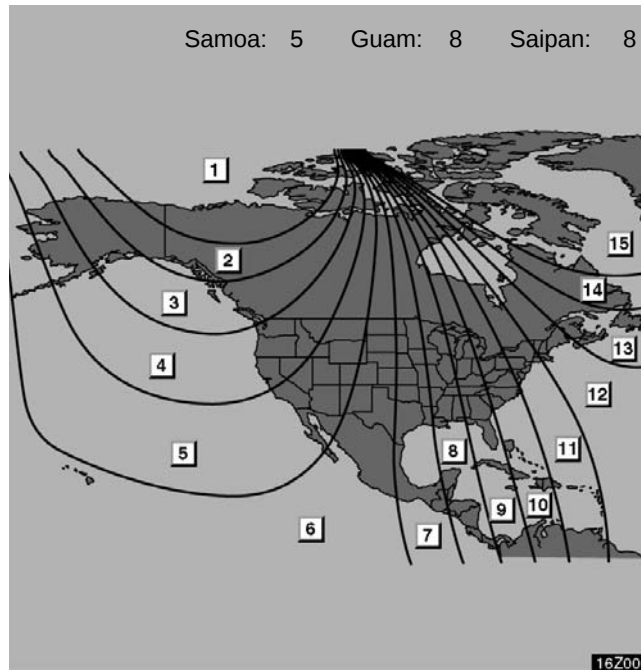
Do not put magnets or a metal object on or near the inside rear view mirror of the vehicle. Doing this may cause malfunction of the compass sensor in the mirror.

Calibrating the compass (deviation calibration)

The direction display on the compass deviates from the true direction determined by the earth's magnetic field. The angle of deviation varies according to the geographic position of the vehicle.

To adjust this deviation, stop the vehicle, then push and hold the "COMP" switch until the zone number appears on the display. Then push the "COMP" switch, referring to the following map to select the number of the zone where the vehicle is.

STEERING WHEEL AND MIRRORS



► **Zone numbers**

Leaving the system after the calibration for several seconds, the direction will appear on the display. It shows the zone number is set.



CAUTION

Do not adjust the display while the vehicle is moving. Be sure to adjust the display only when the vehicle is stopped.

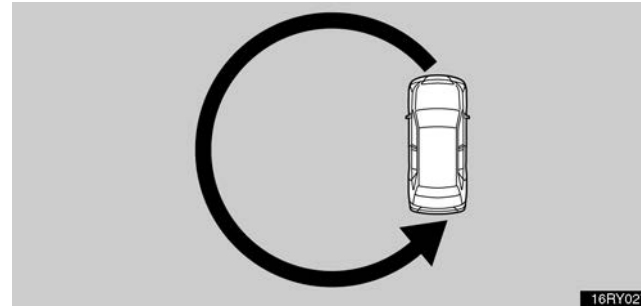
STEERING WHEEL AND MIRRORS

Calibrating the compass (circling calibration)



To rectify the compass, stop the vehicle and push and hold the "COMP" switch until "C" appears on the display.

There is also a case that "C" appears on the display in case of a drastic change in the magnetic field.



Drive the vehicle slowly (at 8 km/h [5 mph] or lower) in a circle until the direction is displayed. If there is not enough space to drive in a circle, drive around the block until the direction is displayed.

After driving in 1 to 3 circles in the above method, calibration is complete with the direction shown on the display.

STEERING WHEEL AND MIRRORS

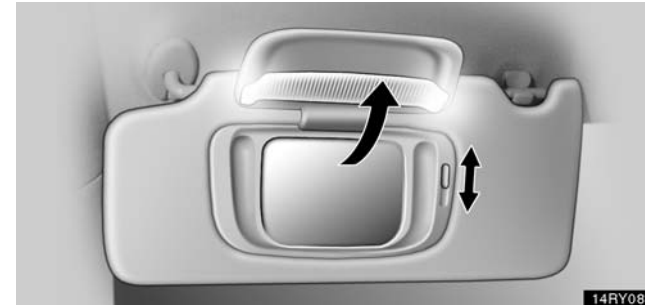
Perform circling calibration just after you have purchased your Lexus. And then always perform circling calibration after the battery has been removed, replaced or disconnected.

- Do not perform circling calibration of the compass in a place where the earth's magnetic field is subject to interference by artificial magnetic fields (underground parking, under a steel tower, between buildings, roof parking, near a crossing, near a large vehicle, etc.).
- During calibration, do not operate electric systems (moonroof, power windows, etc.) as they may interfere with the calibration.

CAUTION

- **When doing the circling calibration, be sure to secure a wide space, and watch out for people and vehicles in the neighborhood. Do not violate any local traffic rules while performing circling calibration.**
- **Do not adjust the display while the vehicle is moving. Be sure to adjust the display only when the vehicle is stopped.**

VANITY MIRRORS



To use the vanity mirror, swing the sun visor down and open the cover.

The vanity light comes on when you open the cover.

To adjust the brightness of the vanity light, slide the knob.

SECTION 2 - 1

AIR CONDITIONING AND AUDIO

Air conditioning

Automatic air conditioning controls 266

*For vehicles equipped with Navigation System,
please refer to the separate “Navigation System
Owner’s Manual”.*

AUTOMATIC AIR CONDITIONING CONTROLS



► You can adjust the brightness of the display. See “Brightness control” on page 114 for details.

The automatic air conditioning automatically maintains the set temperature.

In the automatic operation mode, the air conditioning selects the most suitable fan speed, air flow, air intake and on-off the air conditioning according to the temperature.

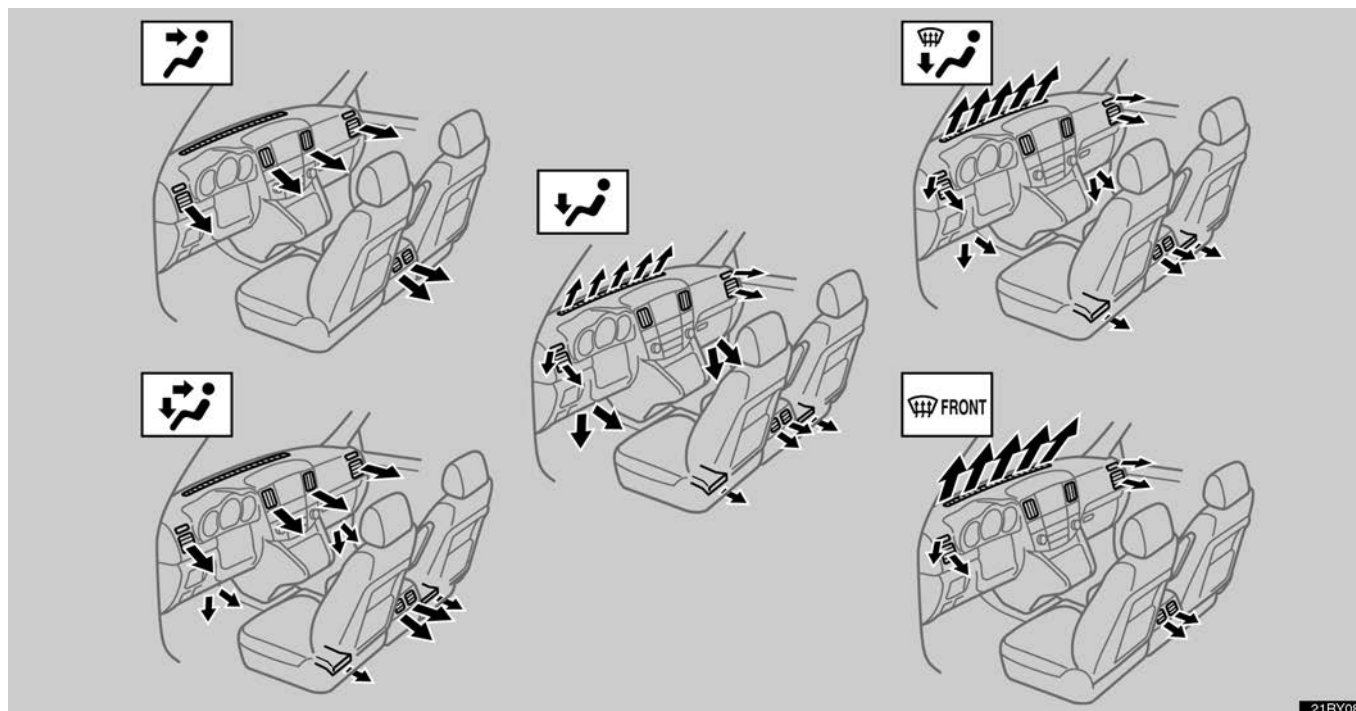
The ignition key must be in the "ON" position.

NOTICE

To prevent the auxiliary battery from being discharged, do not leave the air conditioning on longer than necessary when the hybrid system is off.

- 1 *Driver side temperature display (in degrees Fahrenheit or Centigrade)*
- 2 *Air flow display*
- 3 *Fan speed display*
- 4 *Passenger side temperature display (in degrees Fahrenheit or Centigrade)*
- 5 *"TEMP" (driver side temperature control) button (At the independent mode that display shows "DUAL"; mainly for driver and secondarily for front passenger)
(At the linked mode that display does not show "DUAL"; for driver)*
- 6 *"AUTO" button*
- 7 *"OFF" button*
- 8 *Air intake control button*
- 9 *"A/C" button*
- 10 *Fan speed control button*
- 11 *"MODE"(air flow control) button*
- 12 *"DUAL" (temperature setting mode change) button*
- 13 *Windshield air flow button*
- 14 *"PASSENGER TEMP" (passenger side temperature control) button
(Only for the independent mode that display shows "DUAL"; mainly for front passenger and secondarily for driver)*

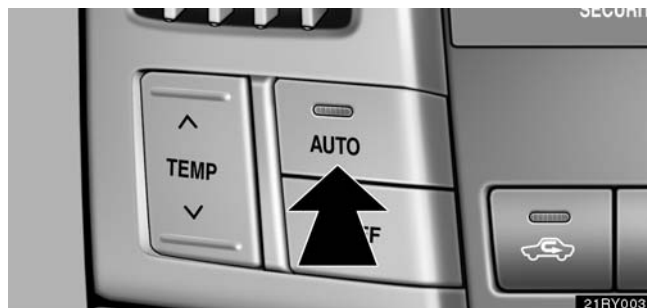
AIR CONDITIONING



► Air flow selection

(a) Climate control

SETTING OPERATION — automatic control



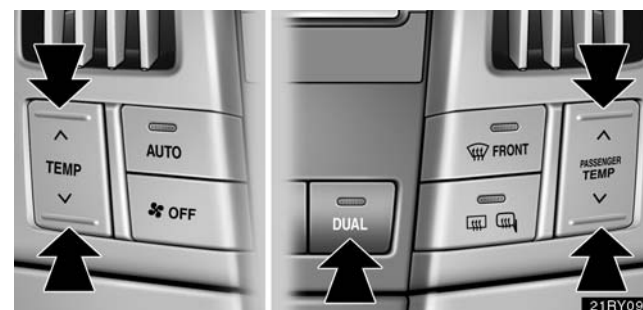
1. Push the “AUTO” button.

An indicator light will come on to show that the automatic operation mode has been selected.

Air flow quantity from, on–off of the air conditioning and switching of the air intake mode are automatically adjusted. When you press the “AUTO” button with the air intake mode at OUTSIDE AIR, internal circulation may be applied for maximum cooling. The operation status is shown by each indicator.

When one of the manual control buttons is depressed while operating in automatic mode, the operation corresponding to the depressed button is set. Other conditions continue to be adjusted automatically.

Push the “OFF” button to turn the air conditioning system off.



2. Use the “TEMP” or “PASSENGER TEMP” button to set the vehicle interior temperature.

The interior temperature can be controlled in the driver and passenger zones simultaneously or individually.

To increase the interior temperature, press the “^” side. To decrease the interior temperature, press the “v” side.

AIR CONDITIONING

To heat or cool the cabin quickly —

“LO” appears when you hold the “∨” side until the lowest temperature is reached, and “HI” appears when you hold the “∧” side until the highest temperature is reached.

“**TEMP**” button — Changes the temperature in the driver and passenger zones simultaneously or on the driver’s zone only.

“**PASSENGER TEMP**” button — Changes the temperature settings in the front passenger zone.

“**DUAL**” button —

This switch is used to set the temperatures independently for the driver’s seat and front passenger seat.

Pushing the button changes the mode from independent and linked.

- **Independent mode:** Temperatures can be set independently for the driver’s seat and front passenger’s seat. The indicator light will illuminate to show that the independent mode has been selected.
- **Linked mode:** The same temperature is set for the driver’s seat and front passenger’s seat. The indicator light will turn off to show that the linked mode has been selected.

When the temperature for the front passenger’s seat is changed in the linked mode, the mode is changed automatically to the independent mode.



- ➡ Driver side air flow
- ➡ Passenger side air flow
- ⇨ Mixed air flow

INFORMATION***Operating the automatic air conditioning —***

- *This automatic control has additional functions as described below, when the “AUTO” button is pushed.*

The fan may stop for a little while during warm air preparation when the ambient temperature is low in the “Floor”, “Bi-level” or “Floor/Windshield” air flow mode. To remove exterior frost, fog or inside fog on the windshield quickly, use the high fan speed setting after the “Windshield” air flow mode has been selected.

The fan may stop for a few seconds during cool air preparation when the ambient temperature is high in the “Panel” or “Bi-level” air flow mode.

- *In the automatic operation mode, internal circulation may be used for maximum cooling when the ambient temperature is high.*

To take in fresh outside air into the vehicle, select the OUTSIDE AIR mode by pushing the air intake control button.

- *The “Floor/Windshield” air flow mode may be applied automatically, if the outside temperature is below 0°C (32°F).*

The “Floor/Windshield” air flow mode turning on the defogging and defrosting function in order to clean your front view for safe driving is not a malfunction.

To heat the floor, the “Floor” air flow mode can be selected manually by pushing the “MODE” (air flow control) button.

AIR CONDITIONING

Operating the two-temperature selector —

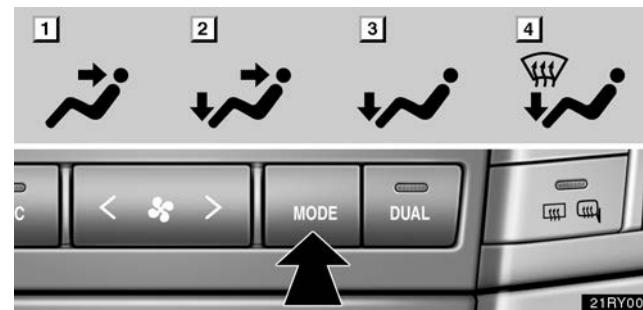
The air conditioning system has two independent temperature selectors: left and right (for the use of driver and front passenger respectively).

- *There are cases where the temperature of the airflow may not be the same on the driver and front passenger side according to circumstances, even if the left and right temperature selectors are set at the same temperature. If this situation occurs, use the fine tuning operation to adjust the air temperature on one side.*
- *There are cases where one or both of the airflow temperatures may not accurately reflect the set temperature, when the airflow temperature settings on the left and right are substantially different. For example, if the left controller is set at a moderate temperature while the right controller is set at maximum heating or maximum cooling, or vice versa. If this situation occurs, use the fine tuning operation to adjust the air temperature on each side.*

SETTING OPERATION — manual control

When one of the manual control buttons is depressed while operating in automatic mode, the operation corresponding to the depressed button is set. Other conditions continue to be adjusted automatically.

To manually select air flow modes —



The outlets from which air is delivered can be selected manually by pushing the buttons. The function of each mode is as follows:

- 1 Panel** — Air flows primarily from the instrument panel vents and rear vents.
- 2 Bi-level** — Air flows from the floor vents, instrument panel vents and rear vents.

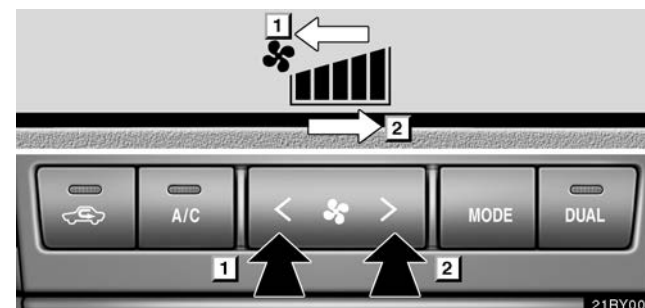
When you set the temperature selector setting during automatic operation, warm air flows out of the floor vents and cooler air flows out of the instrument panel vents and rear vents.

3 Floor — Air flows mainly from the floor vents and rear vents.

4 Floor/windshield — Air flows mainly from the floor vents, windshield vents and rear vents.

To take in fresh outside air, select the OUTSIDE AIR mode by pushing the air intake control button.

To control the fan speed manually —



► **1 To decrease the fan speed**

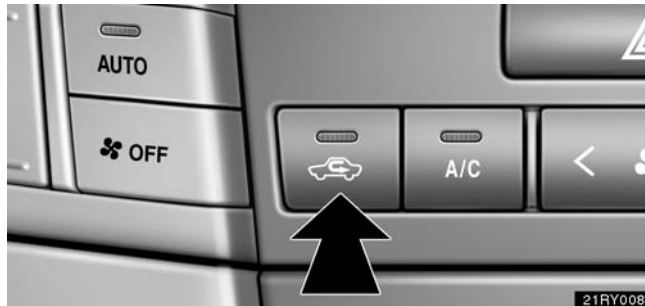
2 To increase the fan speed

The fan speed can be set by pushing the appropriate side of the fan speed control button. The higher the fan speed is, the more air is delivered. Push the ">" (increase) or "<" (decrease) side of the button to adjust the fan speed. Pushing the "OFF" button turns off the fan.

To remove exterior windshield frost and interior windshield fog, set the fan speed to the highest speed.

AIR CONDITIONING

To switch air intake mode manually —



The air intake control button is used to switch between the OUTSIDE AIR mode and the RECIRCULATED AIR mode.

With the button set to the OUTSIDE AIR mode, the indicator light will turn off and the system will take fresh outside air into the vehicle.

To quickly circulate cooled air, push the air intake control button for RECIRCULATED AIR. The indicator light will come on.

For normal use, it is best to keep the air intake control button set to the OUTSIDE AIR mode. If recirculated air is used during heating, the windows fog up more easily.

To prevent the windshield fogging, the air intake mode may change automatically to the OUTSIDE AIR mode depending on the air conditioning system.

For example, when the ambient temperature is low, the air intake mode may change automatically to the OUTSIDE AIR mode. This is not a malfunction.

When the air conditioning is on, if the engine coolant temperature or electric compressor inverter temperature becomes extremely high, the RECIRCULATED AIR mode is automatically selected. In this case, it is not possible to return to the OUTSIDE AIR mode. This is not a malfunction. When the engine coolant temperature or electric compressor inverter temperature is lowered, the previous mode resumes.

To operate the air conditioning manually —

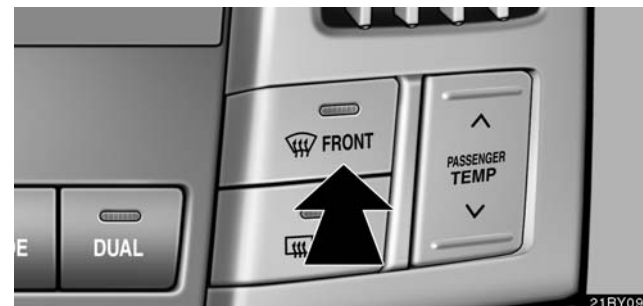
Push the “A/C” button to turn the air conditioning on and push it again to turn the air conditioning off.

The air conditioning does not work if the outside temperature is around 0°C (32°F).

If the system is used for ventilation, heating in dry weather or removing frost or exterior fog on the windshield, turn the air conditioning off once it is no longer required. This will improve fuel economy. The air conditioning can be used for year-round automatic temperature control including cooling and dehumidifying operation.

If the air conditioning compressor is inoperable, the indicator on the “A/C” button will blink. If the indicator of the “A/C” button blinks even when the “A/C” button is pushed again, have the compressor checked by your nearest Lexus dealer.

(b) Windshield defogging and defrosting



To remove interior fog on the windshield —

Push the windshield air flow button.

To remove frost or exterior fog on the windshield —

1. Push the “TEMP” button to set the maximum temperature.
2. Push the windshield air flow button.
3. Push the fan speed control button on the right side to obtain maximum air flow.
4. Leave the “A/C” button off.

When the windshield air flow button is pushed, air flows mainly from the windshield vents and turns on the defogging function in order to clear the front view.

Pushing the button once again returns the air flow mode to the mode previously used.

AIR CONDITIONING

This button automatically changes the air intake mode to select the OUTSIDE AIR mode. This clears the front view more quickly. It is not possible to return to RECIRCULATED AIR mode in this position.

Push the "A/C" button for dehumidified heating or cooling. This setting clears the front view more quickly.



CAUTION

Do not use the windshield air flow button during cooled air operation in extremely humid weather. The difference between the temperature of the outside air and that of the windshield could cause the outer surface of the windshield to fog up, blocking your vision.

(c) Operating tips

- To cool off your Lexus after it has been parked in the hot sun, drive with the windows open for a few minutes. After the excess heat has blown off, close the windows. This allows the air conditioning to cool the interior more quickly.
- Make sure the air intake grilles in front of the windshield are not blocked (by leaves or snow, for example).
- If air flow control is not satisfactory, check the side and rear vents. (See "(d) Side vents and rear vents".)
- On humid days, do not blow cold air on the windshield. The windshield may fog up because of the difference in air temperature on the inside and outside of the windshield.
- Keep the area under the front seats clear to allow air to circulate throughout the vehicle.
- On cold days, set the fan speed to high for a minute to help clear the intake ducts of snow or moisture. This can reduce window fogging.
- When driving on dusty roads, close all windows. If dust thrown up by the vehicle is still drawn into the vehicle after closing the windows, it is recommended that the air intake control button be set to the OUTSIDE AIR mode to take in fresh air. The fan speed should not be turned off.

AIR CONDITIONING

- If following another vehicle on a dusty road, or driving in windy and dusty conditions, it is recommended that the air intake be temporarily set to the RECIRCULATED AIR mode, which will close off the outside passage and prevent outside air and dust from entering the vehicle interior.

Heating

For best results, set controls to:

For automatic operation —

Push in the “AUTO” button.
Temperature — To the desired temperature
Air intake — OUTSIDE AIR
Air conditioning — OFF

For manual operation —

Fan speed — To the desired fan speed
Temperature — Towards high temperature
Air intake — OUTSIDE AIR
Air flow — FLOOR
Air conditioning — OFF

- For quick heating, select RECIRCULATED AIR for a few minutes. To keep the windows from fogging, select OUTSIDE AIR after the vehicle interior has been warmed.
- Push the “A/C” button on for dehumidified heating.
- Choose floor/windshield air flow to heat the vehicle interior while defrosting or defogging the windshield.

Air conditioning

For best results, set controls to:

For automatic operation —

Push in the “AUTO” button.
Temperature — To the desired temperature
Air intake — OUTSIDE AIR
Air conditioning — ON

For manual operation —

Fan speed — To the desired fan speed
Temperature — Towards low temperature
Air intake — OUTSIDE AIR
Air flow — PANEL
Air conditioning — ON

- For quick cooling, select RECIRCULATED AIR for a few minutes.

AIR CONDITIONING

Ventilation

For best results, set controls to:

For automatic operation —

Push in the “AUTO” button.
Temperature — Towards low temperature
Air intake — **OUTSIDE AIR**
Air conditioning — **OFF**

For manual operation —

Fan speed — To the desired fan speed
Temperature — Towards low temperature
Air intake — **OUTSIDE AIR**
Air flow — **PANEL**
Air conditioning — **OFF**

Defogging and defrosting

— The inside of the windshield

For best results, set controls to:

For automatic operation —

Temperature — Towards high temperature to heat;
low temperature to cool
Air intake — **OUTSIDE AIR**
Air flow — **WINDSHIELD**

For manual operation —

Fan speed — To the desired fan speed
Temperature — Towards high temperature to heat;
low temperature to cool
Air intake — **OUTSIDE AIR**
Air flow — **WINDSHIELD**

When the windshield air flow button is pushed, air flows mainly from the windshield vents and turns on the defogging function with the purpose of clearing the front view.

Pushing this button once again returns the air flow mode to the last one used.

This button automatically changes the air intake mode to select the OUTSIDE AIR mode. This clears the front view more quickly. It is not possible to return to RECIRCULATED AIR mode in this position.

Push the “A/C” button for dehumidified heating or cooling. This setting clears the front view more quickly.

- On humid days, do not blow cold air on the windshield — the difference between the outside and inside temperatures could make the fogging worse.

AIR CONDITIONING

— The outside of the windshield

For best results, set controls to:

For automatic operation —

Temperature — Towards high temperature
Air intake — OUTSIDE AIR
Air flow — WINDSHIELD

For manual operation —

Fan speed — To the desired fan speed
Temperature — Towards high temperature
Air intake — OUTSIDE AIR
Air flow — WINDSHIELD

When the windshield air flow button is pushed, air flows mainly from the windshield vents and turns on the defrosting function with the purpose of clearing the front view.

Pushing this button once again returns the air flow mode to the last one used.

This button automatically changes the air intake mode to select the OUTSIDE AIR mode. This clears the front view more quickly. It is not possible to return to RECIRCULATED AIR mode in this position.

Push the “A/C” button for dehumidified heating or cooling. This setting clears the front view more quickly.

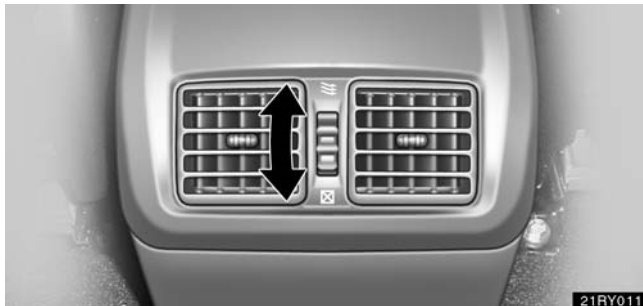
- To heat the vehicle interior while defrosting the windshield, choose floor/windshield air flow.

AIR CONDITIONING

(d) Side vents and rear vents



► *Side vents*



► *Rear vents*

If air flow control is not satisfactory, check the side vents and rear vents. The side vents and rear vents may be opened or closed as shown.

When outside temperature is cold like a winter season, air flow temperature from the side vents and rear vents may not be warmed up enough for a while until that the engine coolant temperature becomes high enough.

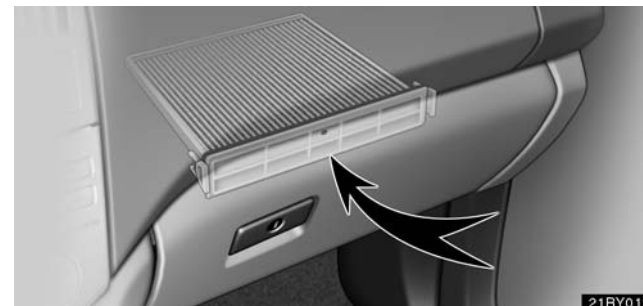
If air flow from the side vents and rear vents is not satisfactory, air flow direction can be changed manually by adjusting the vents fin direction or the vents may be closed.

(e) Checking and replacing the air conditioning filter



The air conditioning filter information label is placed in the glove box as shown and indicates that a filter has been installed.

The air conditioning filter prevents dust from entering the vehicle through the air conditioning vent.



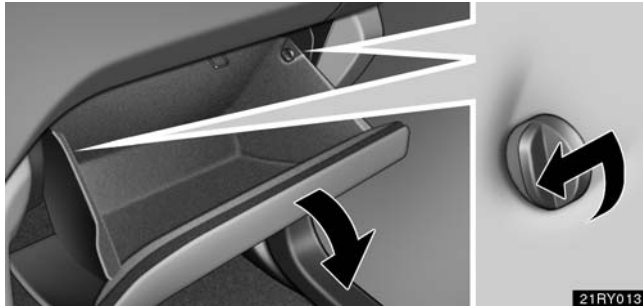
The air conditioning filter is behind the glove box.

The air conditioning filter may clog after long use. The filter may need to be replaced if the air flow of the air conditioner and heater experiences extreme reductions in operating efficiency, or if the windows become to fog up easily.

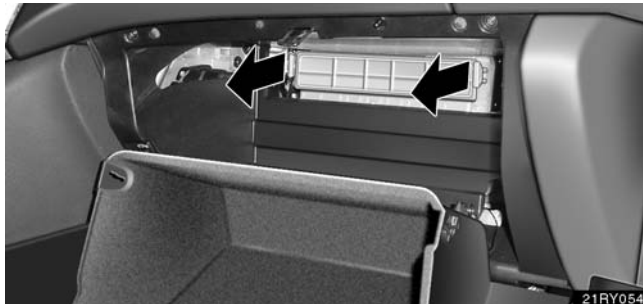
If the symptoms of air conditioning efficiency problems occur, contact your nearest Lexus dealer to have the filter checked and replaced.

To maintain the air conditioning efficiency, inspect and replace the air conditioning filter according to the maintenance schedule. In dusty areas or areas with heavy traffic flow such as inner city or desert areas, early replacement may be required. (For scheduled maintenance information, please refer to the "Owner's Manual Supplement / Scheduled Maintenance".)

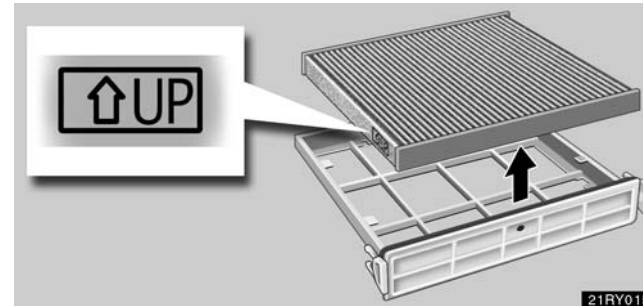
AIR CONDITIONING



1. Open the glove box. Remove the 2 pins installed on the upper part of the glove box and lower the glove box.



2. Remove the filter case from the filter outlet as shown in the illustration.



3. Remove the filter from the filter case.

4. Inspect the filter on the surface.

If it is just moderately dusty, it may be cleaned by blowing compressed air from the reverse surface. Do not wash or oil the filter.

If it is dirty, it should be replaced.

When installing the filter in the filter case, keep the arrow pointing up.

INFORMATION

The air conditioning filter should be installed properly in position. The use of air conditioning with the filter removed may cause deteriorated dustproof performance and then affect air conditioning performance.

SECTION 2 - 2

AIR CONDITIONING AND AUDIO

Audio

Audio system (with single-CD player)	286
Audio system (with six-CD changer)	306
Audio remote controls	328
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Audio/video system operating hints	395

AUDIO

AUDIO SYSTEM (with single-CD player)

Quick reference for your audio system



22RY424

► You can adjust the brightness of the display. See "Instrument panel light control" on page 117 for details.

1 Radio mode: Scan tuning
(See page 295 for details.)

CD mode: Scan selection
(See page 303 for details.)

2 Ejecting a CD
(See page 301 for details.)

3 CD slot
(See page 301 for details.)

4 Display of functions in TAPE or CD mode

RAND: Random access
(See page 304 for details.)

RPT: Automatic repeat
(See page 300 or 304 for details.)

DOLBY NR: DOLBY NR
(See page 299 for details.)

◀▶: Side change
(See page 299 for details.)

◀◀: Rewinding or reversing
(See page 299 or 303 for details.)

▶▶: Fast forwarding
(See page 299 or 303 for details.)

5 Station selector and function buttons
(See page 294 for details.)

6 MUTE button
(See page 289 for details.)

7 Traffic announcement
(See page 297 for details.)

8 Program type
(See page 296 for details.)

9 TUNE/AUDIO CONTROL knob
(See page 291 for details.)

10 Radio mode: Radio text message
(See page 297 for details.)

CD mode: CD text
(See page 305 for details.)

11 Mode selectors
(See page 289 for details.)

12 Cassette tape slot
(See page 298 for details.)

13 Stopping and ejecting a cassette tape
(See page 298 for details.)

14 Turning the system on and adjusting the volume
(See page 288 for details.)

15 Radio mode: Seek tuning
(See page 295 for details.)

TAPE mode: Direct access to a desired program
(See page 300 for details.)

CD mode: Direct access to a desired track
(See page 303 for details.)

AUDIO

Using your audio system: some basics

This section describes some of the basic features of the Lexus audio system. Some information may not pertain to your system.

Your audio system works when the ignition switch is in the "ACC" or "ON" position.

NOTICE

To prevent the auxiliary battery from being discharged, do not leave the audio system on longer than necessary when the hybrid system is off.

(a) Turning the system on and off



Push this knob to turn the audio system on and off. Turn this knob to adjust the volume.

The system turns on in the last mode used.



Push the “MUTE” button to decrease the volume momentarily.

To return to its original volume, push the same button again.

When the audio system is turned on, the mute is always off regardless of the previous mode.



Push the “AM”, “FM”, “TAPE” or “DISC” button to turn on that mode. The selected mode turns on directly.

Push these buttons if you want to switch from one mode to another.

If the tape or CD is not set, the cassette player or CD player does not turn on.

You can turn off each player by ejecting the cassette tape or CD. If the audio system was previously off, then the entire audio system will be turned off when you eject the cassette tape or CD. If the another function was previously playing, it will come on again.

AUDIO

Vehicles with rear seat entertainment system —

The “DISC” button may also be used to operate a DVD player when a disc is loaded in the DVD player. Pressing the “DISC” button changes between the CD player and DVD player. When the DVD player is in operation, “AUX” appears on the display.



In the “TAPE” or “CD” mode, the applicable functions are shown in the lowest part of the display. Push the switch just below to turn on each function.

(b) Adjusting audio sounds

Your audio system can adjust tone and sound balance or select the listening seat position.

How good an audio program sounds to you is largely determined by the mix of the treble, mid-range, and bass levels. In fact, different kinds of music and vocal programs usually sound better with different mixes of treble, mid-range and bass.

Adjusting the sound balance and selecting the listening seat position is also important for good audio sound.

Keep in mind that if you are listening to a stereo recording or broadcast, changing the sound balance or listening seat position will increase the volume of one group of sounds while decreasing the volume of another.



Each time you push the “AUDIO CONTROL” knob, the mode changes as in the following.

POS: Select one of the following listening seat positions.

- 1: Front seat priority mode
- 2: Rear seat priority mode
- 3: All seats mode
- 4: Driver seat priority mode

BAS: Adjusts low-pitched tones.

MID: Adjusts mid-pitched tones.

TRE: Adjusts high-pitched tones.

FAD: Adjusts the sound balance between the front and rear speakers.

BAL: Adjusts the sound balance between the right and left speakers.

ASL: Turns on or off the Automatic Sound Levelizer.

AUDIO

Automatic Sound Levelizer (ASL): When the audio sound becomes difficult to be heard due to road noise, wind noise, etc. during driving, the system adjusts to the optimum volume and tone quality according to the noise level. While the Automatic Sound Levelizer is on, "ASL" appears on the display.

Push the "AUDIO CONTROL" knob until the desired mode. Turn the knob to suit your preference.

(c) Your radio antennas

Detachable antenna: To remove a detachable antenna, carefully turn it counterclockwise.

NOTICE

To prevent damage to the antenna, make sure it is removed before driving your vehicle through an automatic car wash.

Wire antenna: The wire antenna is mounted inside the back door window.

NOTICE

- *When cleaning the inside of the back door window, be careful not to scratch or damage the wire antennas or connectors.*

- *Putting a window tint (especially, conductive or metallic type) on the back door window may affect the reception of radio or mobile telephone. For the installation of the window tint, consult with your Lexus dealer.*

(d) Your cassette player

When you insert a cassette, the exposed tape should face to the right.

NOTICE

Do not oil any part of the cassette player, and do not insert anything except a cassette tape into the slot.

(e) Your CD player

When you insert a CD, gently push it in with the label face up. The CD player will play from track 1 through to the end of the CD. Then it will play from track 1 again. On models with the CD auto changer, next CD will be played from track 1.

NOTICE

Never try to disassemble or oil any part of the CD player. Do not insert anything other than CD into the slot.

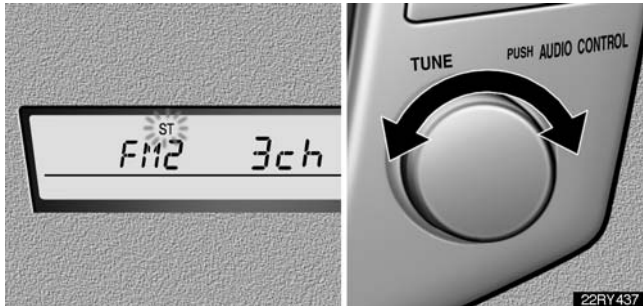
The player is intended for use with 12 cm (4.7 in.) CDs only.

Radio operation**(a) Listening to the radio**

Push these buttons to choose either an AM or FM station.

"AM", "FM1", "FM2" or "FM TYPE" appears on the display.

AUDIO



Turn this knob to the right to step up the frequency or to the left to step down.

Your radio automatically changes to stereo reception when a stereo broadcast is received. "ST" appears on the display. If the signal becomes weak, the radio reduces the amount of channel separation to prevent the weak signal from creating noise. If the signal becomes extremely weak, the radio switches from stereo to mono reception. In this case, "ST" disappears from the display.

(b) Presetting a station



1. Tune in the desired station.

2. Push one of the station selector buttons (1 — 6) and hold it until a beep is heard. This sets the station to the button and the button number (1 — 6) appears on the display.

Each button can store one AM station and two FM stations. To change the preset station to a different one, follow the same procedure.

The preset station memory is cancelled when the power source is interrupted by disconnecting the auxiliary battery or by a blown fuse.

(c) Selecting a station

Tune in the desired station using one of the following methods.



Seek tuning: Push the “SEEK” button. The radio will begin seeking up or down for a station of the nearest frequency and will stop on reception. Each time you push the button, the stations will be searched automatically one after another.

Preset tuning: Push the button (1 — 6) for the station you want. The button number (1 — 6) and station frequency appear on the display.

Manual tuning: Turn the “TUNE” knob. The radio will step up or down to another frequency.



To scan all the frequencies: Push the “SCAN” button briefly. “SCAN” appears on the display. The radio will find the next station up the band, stay there for a few seconds, and then scan again. To select a station, push the “SCAN” button a second time.

To scan the preset stations: Push the “SCAN” button until you hear a beep. “SCAN” appears on the display. The radio will tune in the next preset station up the band, stay there for a few seconds, and then move to the next preset station. To select a station, push the “SCAN” button a second time.

AUDIO

(d) RDS (Radio Data System)

TYPE (Program type):



When you push the "TYPE" button, the current program type receiving from RDS station appears on the display.

If the system receives no RDS stations, "NO PTY" appears on the display.

Each time you push the "V" or "^" button, the program type changes as in the following:

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

Push the "SEEK·TRACK" or "SCAN" button with the program type shown on the display and the radio seeks or scans the station in the relevant program type.

TRAF (Traffic) function: A station that regularly broadcasts traffic information is automatically located.

When you push the "TRAF" button, "TRAF SEEK" appear on the display and the radio will start seeking any traffic program station.

If no traffic program station is found, "NO TRAF INFO" appears on the display for a few seconds and the display returns to the previous mode.

Radio text message:



If the radio receives a radio text from RDS station, "MSG" appears on the display. Push the "TEXT" button, and a text message is displayed.

If the entire the message is not displayed, "►" will appear on the display. To display the rest of the message, push and hold the "TEXT" button until you hear a beep.

After the entire message has been displayed, the message will disappear.

In case a text message is not accepted on the display, you can push the "TEXT" button and hold it to display the rest of the message.

AUDIO

When the system can show the station name, "RDS" appears on the display. Each time you push the "TEXT" button, indication on the display changes from the band to the station name, a radio text in this order. After 6 seconds passes, indication returns to the band.

Cassette tape player operation

(a) Playing a cassette tape

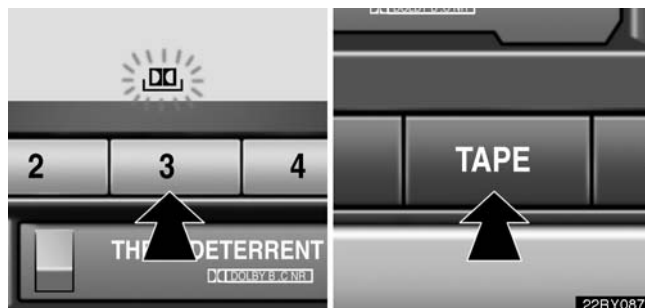


When you insert a cassette tape, the exposed tape should face to the right.

The player will automatically start when you insert a cassette tape. At this time, "TAPE" appears on the display.

To stop or eject the cassette tape, push the "▲" (eject) button.

Auto-reverse feature: After the cassette player reaches the end of a tape, it automatically reverses and begins to play the other side, regardless of whether the cassette was playing or fast forwarding.



If a cassette is already in the slot, push the “TAPE” button.

Dolby® Noise Reduction* feature: If you are listening to a tape that was recorded with Dolby® Noise Reduction*, push the “” button. The display will indicate that the Dolby noise reduction system is on.

The Dolby NR mode reduces tape noise by about 10 dB. For best sound reproduction, play your tapes with the Dolby NR on or off according to the mode used for recording the tape.

To play a tape recorded without Dolby NR, push the button again to turn off the Dolby NR.

* Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation. “DOLBY” and the double-D symbol  are trademarks of Dolby Laboratories Licensing Corporation.

(b) Manual program selection



“Program” button: Push the “” button to select the other side of a cassette tape. The display indicates which side is currently selected (“▲” indicates top side, “▼” indicates bottom side).

“Rewind” button: Push the “” button to rewind a tape. “REW” appears on the display.

To stop rewinding, push the same button or “TAPE” button.

“Fast forward” button: Push the “” button to fast forward a cassette tape. “FF” appears on the display.

To stop fast forwarding, push the same button or “TAPE” button.

AUDIO

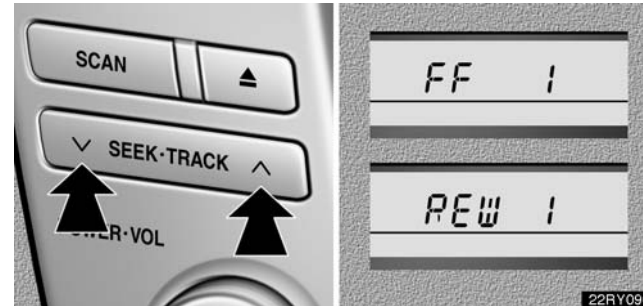
(c) Automatic program selection



“RPT” button: The repeat feature automatically replays the current program.

Push the “RPT” button while the program is playing. When the program ends, it will automatically be rewound and replayed. Push the button again to turn off the repeat feature.

There must be at least 3 seconds of blank space between programs for the repeat feature to work correctly.



“Automatic program selection” button: The automatic program selection feature allows you to program your cassette player to skip forward or backward to locate the song you want to hear. You can skip up to 9 programs at a time.

Push this button on the “^” side to skip forward. “FF” and the number will appear on the display. Push the button until the number you want to skip appears on the display. After that, the player will automatically skip forward.

When the end of the tape is reached, the player automatically reverses sides and resumes normal play.

Push this button on the “V” side to skip backward. Push the button until “REW” and the number you want to skip appear on the display.

- If you set “REW 1”, the player will rewind to the beginning of the current program.
- When counting the number of programs you want to rewind, remember to count the current program as well. For example, if you want to rewind to a song that is two before the song you are listening to, push this button until “REW 3” appears on the display.

When a beginning of the tape is reached, the player automatically resumes normal play.

There must be at least 3 seconds of blank space between programs for this feature to work correctly.

“RPT” and “Automatic program selection” features:
These features may not work well with some spoken word, live or classical recordings.

CD player operation

(a) Inserting or ejecting a CD

The ignition switch must be in the “ACC” or “ON” position.



- **Setting a CD:**

Gently push a CD in with the label faces up.

AUDIO



- **Ejecting a CD:**

Push the “▲” (eject) button for the CD.

(b) Playing a CD



Push the “DISC” button if the CD is already loaded in the player.

“CD” appears on the display.

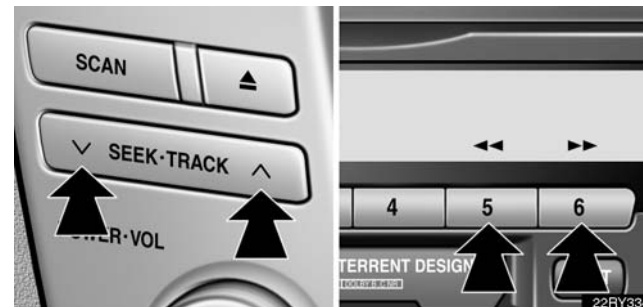
The CD set in the player is played continuously. The track number and the time from the beginning of the program appear on the display.

When play of CD ends, the first track starts.

(c) Searching for a desired track

Push the “SCAN” button briefly. “SCAN” will appear on the display. The CD player will play the next track for 10 seconds, then scan again. To select a track, push the “SCAN” button a second time. If the player reaches the end of the CD, it will continue scanning at track 1.

After all the tracks are scanned in one pass, normal play resumes.

(d) Selecting a desired track

“TRACK” button: Use for direct access to a desired track.

Push either side of the “TRACK” button several times until the desired track number appears on the display. As you release the button, the player will start playing the selected track from the beginning.

Vehicles with rear seat entertainment system —

While the DVD player is in operation, the chapter or track can be changed by pushing the “^” or “V” side of the “TRACK” button.

“Fast forward” button: Push the “▶▶” button and hold it to fast forward the CD. When you release the button, the CD player will resume playing from that position.

“Reverse” button: Push the “◀◀” button and hold it to reverse the CD. When you release the button, the CD player will resume playing.

AUDIO

(e) Repeating a track



“RPT” button: The repeat feature automatically replays the current program.

Push the “RPT” button briefly while the track is playing. “RPT” will appear on the display. When the track ends, it will automatically be replayed. This process will be continued until you push the button again to turn off the repeat feature.

(f) Random playing



“RAND” button: Use for listening to the tracks on a CD in random order.

Push the “RAND” button briefly. “RAND” will appear on the display and play the CD you are listening to in random order.

When a track is skipped or the system is inoperative, push the button to reset.

(g) CD text

When you push the “TEXT” button while the CD with CD text display function (the logo “CD TEXT” marked on the CD) is being played, the track number, elapsed time, CD title and then track title appear on the display.

When you push this button if the CD does not have a text display function, “NO TITLE” appears on the display.

The display can show up to 12 letters at once. If the CD title or music title is longer than 12 letters, hold down the button until you hear a beep. The letters after the 12th one are shown. However, 24 letters at maximum can be shown on the display.

When you push this button until you hear a beep or play no operation for about 6 seconds with the letters after the 13th one on the display, the display returns and shows the first 12 letters.

Even if the CD title or music title is longer than 24 letters, the display can show up to 24 letters.

(h) If the player malfunctions

If the player or another unit equipped with the player malfunctions, your audio system will display one of the four following error messages.

If “WAIT” appears on the display: It indicates that the inside of the player unit may be too hot due to the very high ambient temperature. Remove the CD from the player and allow the player to cool down.

If “ERROR 1” appears on the display: It indicates that the CD is dirty, damaged, or it was inserted up-side down. Clean the CD or insert it correctly.

If “ERROR 3” or “ERROR 4” appears on the display: It indicates there is a trouble inside the system. Eject the CD.

If the malfunction is not rectified: Take your vehicle to your Lexus dealer.

AUDIO

AUDIO SYSTEM (with six-CD changer)

Quick reference for your audio system



22RY428

- You can adjust the brightness of the display. See “Instrument panel light control” on page 117 for details.
If a Mark Levinson brand audio system is installed, the “Mark Levinson” logo is shown on the panel.

1 Radio mode: Scan tuning
(See page 315 for details.)

2 Stopping and ejecting a CD
(See page 321 for details.)

CD mode: Scan selection
(See page 324 for details.)

3 CD slot
(See page 321 for details.)

4 Display of functions in TAPE or CD mode

RAND: Random access
(See page 326 for details.)

RPT: Automatic repeat
(See page 319 or 325 for details.)

DOLBY NR: DOLBY NR
(See page 318 for details.)

∨ ∧: CD selection
(See page 323 for details.)

◀▶: Side change
(See page 319 for details.)

◀◀: Rewinding or reversing
(See page 319 or 325 for details.)

▶▶: Fast forwarding
(See page 319 or 325 for details.)

5 Station selector and function buttons
(See page 314 for details.)

6 CD load button
(See page 321 for details.)

7 Traffic announcement
(See page 316 for details.)

8 Program type
(See page 315 for details.)

9 TUNE/AUDIO CONTROL knob
(See page 310 for details.)

10 Radio mode: Radio text message
(See page 317 for details.)

CD mode: CD text
(See page 327 for details.)

11 Mode selectors
(See page 309 for details.)

12 Cassette tape slot
(See page 318 for details.)

13 Stopping and ejecting a cassette tape
(See page 318 for details.)

14 Turning the system on and adjusting the volume
(See page 308 for details.)

15 Radio mode: Seek tuning
(See page 314 for details.)

TAPE mode: Direct access to a desired program
(See page 320 for details.)

CD mode: Direct access to a desired track
(See page 325 for details.)

AUDIO

Using your audio system: some basics

This section describes some of the basic features of the Lexus audio system. Some information may not pertain to your system.

Your audio system works when the ignition switch is in the "ACC" or "ON" position.

NOTICE

To prevent the auxiliary battery from being discharged, do not leave the audio system on longer than necessary when the hybrid system is off.

(a) Turning the system on and off



Push this knob to turn the audio system on and off. Turn this knob to adjust the volume.

The system turns on in the last mode used.



Push the “AM”, “FM”, “TAPE” or “DISC” button to turn on that mode. The selected mode turns on directly.

Push these buttons if you want to switch from one mode to another.

If the tape or CD is not set, the cassette player or CD player does not turn on.

You can turn off each player by ejecting the cassette tape or CD. If the audio system was previously off, then the entire audio system will be turned off when you eject the cassette tape or CD. If the another function was previously playing, it will come on again.

With rear seat entertainment system —

You can play a DVD or CD by pushing the “DISC” button when a disc is loaded in the DVD player. Each time you push the “DISC” button, you change between “CD” mode on the front audio system and the DVD player. When you play the DVD player, “AUX” appears on the display.

AUDIO



In the “TAPE” or “CD” mode, the applicable functions are shown in the lowest part of the display. Push the switch just below to turn on each function.

(b) Adjusting audio sounds

How good an audio program sounds to you is largely determined by the mix of the treble, mid-range, and bass levels. In fact, different kinds of music and vocal programs usually sound better with different mixes of treble, mid-range and bass.

Adjusting the sound balance and selecting the listening seat position is also important for good an audio sound.

Keep in mind that if you are listening to a stereo recording or broadcast, changing the sound balance or listening seat position will increase the volume of one group of sounds while decreasing the volume of another.



Each time you push the “AUDIO CONTROL” knob, the mode changes as in the following.

POS: Select one of the following listening seat positions.

- 1: Front seats priority mode
- 2: Rear seat priority mode
- 3: All seats mode
- 4: Driver seat priority mode

BAS: Adjusts low-pitched tones.

MID: Adjusts mid-pitched tones.

TRE: Adjusts high-pitched tones.

FAD: Adjusts the sound balance between the front and rear speakers.

BAL: Adjusts the sound balance between the right and left speakers.

ASL: Turns on or off the Automatic Sound Levelizer.

Automatic Sound Levelizer (ASL): When the audio sound becomes difficult to be heard due to road noise, wind noise, etc. during driving, the system adjusts to the optimum volume and tone quality according to the noise level. While the Automatic Sound Levelizer is on, "ASL" appears on the display.

Push the "AUDIO CONTROL" knob until the desired mode. Turn the knob to suit your preference.

(c) Your radio antennas

Detachable antenna: To remove an detachable antenna, carefully turn it counterclockwise.

NOTICE

To prevent damage to the antenna, make sure it is removed before driving your vehicle through an automatic car wash.

Wire antenna: The wire antenna is mounted inside the back door window.

NOTICE

- *When cleaning the inside of the back door window, be careful not to scratch or damage the wire antennas or connectors.*
- *Putting a window tint (especially, conductive or metallic type) on the quarter windows may affect the reception of radio or mobile telephone. For the installation of the window tint, consult with your Lexus dealer.*

(d) Your cassette player

When you insert a cassette, the exposed tape should face to the right.

NOTICE

Do not oil any part of the cassette player, and do not insert anything except a cassette tape into the slot.

AUDIO

(e) Your CD player with changer



Your CD player with changer can store up to 6 CDs and play selected CDs or continuously play all the CDs set in the player.

When you set CDs into the player, make sure their labels face up. If not, the player will display "ERROR 1" and the CD number.

NOTICE

- *Do not stack up two CDs for insertion, or it will cause damage to the CD changer. Insert only one CD into slot at a time.*
- *Never try to disassemble or oil any part of the CD player. Do not insert anything other than CDs into the slot.*

The player is intended for use with 12 cm (4.7 in.) CDs only.

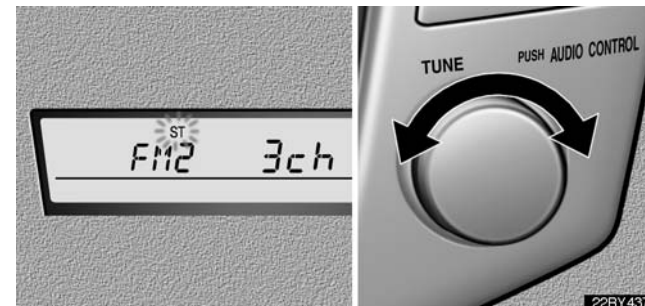
Radio operation

(a) Listening to the radio



Push these buttons to choose either an AM or FM station.

"AM", "FM1", "FM2" or "FM TYPE" appears on the display.



Turn this knob to the right to step up the frequency or to the left to step down.

Your radio automatically changes to stereo reception when a stereo broadcast is received. "ST" appears on the display. If the signal becomes weak, the radio reduces the amount of channel separation to prevent the weak signal from creating noise. If the signal becomes extremely weak, the radio switches from stereo to mono reception. In this case, "ST" disappears from the display.

AUDIO

(b) Presetting a station



1. Tune in the desired station.

2. Push one of the station selector buttons (1 — 6) and hold it until a beep is heard. This sets the station to the button and the button number (1 — 6) appears on the display.

Each button can store one AM station and two FM stations. To change the preset station to a different one, follow the same procedure.

The preset station memory is cancelled when the power source is interrupted by disconnecting the auxiliary battery or by a blown fuse.

(c) Selecting a station

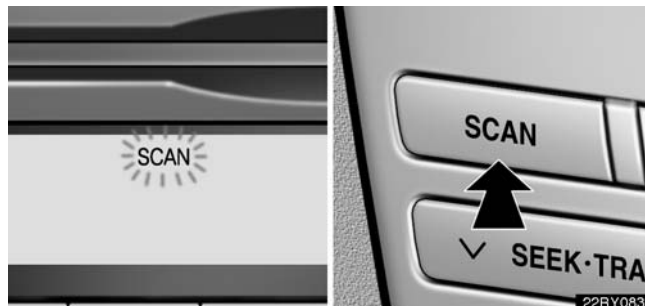
Tune in the desired station using one of the following methods.



Seek tuning: Push the “SEEK” button. The radio will begin seeking up or down for a station of the nearest frequency and will stop on reception. Each time you push the button, the stations will be searched automatically one after another.

Preset tuning: Push the button (1 — 6) for the station you want. The button number (1 — 6) and station frequency appear on the display.

Manual tuning: Turn the “TUNE” knob. The radio will step up or down to another frequency.



To scan all the frequencies: Push the “SCAN” button briefly. “SCAN” appears on the display. The radio will find the next station up the band, stay there for a few seconds, and then scan again. To select a station, push the “SCAN” button a second time.

To scan the preset stations: Push the “SCAN” button until you hear a beep. “SCAN” appears on the display. The radio will tune in the next preset station up the band, stay there for a few seconds, and then move to the next preset station. To select a station, push the “SCAN” button a second time.

(d) RDS (Radio Data System)

TYPE (Program type):



When you push the “TYPE” button, the current program type receiving from RDS station appears on the display.

If the system receives no RDS stations, “NO PTY” appears on the display.

AUDIO

Each time you pushy the “√” or “^” button, the program type changes as in the following:

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

Push the “SEEK·TRACK” or “SCAN” button with the program type shown on the display and the radio seeks or scans the station in the relevant program type.

TRAF (Traffic) function: A station that regularly broadcasts traffic information is automatically located.

When you push the “TRAF” button, “TRAF SEEK” appear on the display and the radio will start seeking any traffic program station.

If no traffic program station is found, “NO TRAF INFO” appears on the display for a few seconds and the display returns to the previous mode.

Radio text message:

If the radio receives a radio text from RDS station, "MSG" appears on the display. Push the "TEXT" button, and a text message is displayed.

If the entire the message is not displayed, "►" will appear on the display. To display the rest of the message, push and hold the "TEXT" button until you hear a beep.

After the entire message has been displayed, the message will disappear.

In case a text message is not accepted on the display, you can push the "TEXT" button and hold it to display the rest of the message.

When the system can show the station name, "RDS" appears on the display. Each time you push the "TEXT" button, indication on the display changes from the band to the station name, a radio text in this order. After 6 seconds passes, indication returns to the band.

AUDIO

Cassette tape player operation

(a) Playing a cassette tape

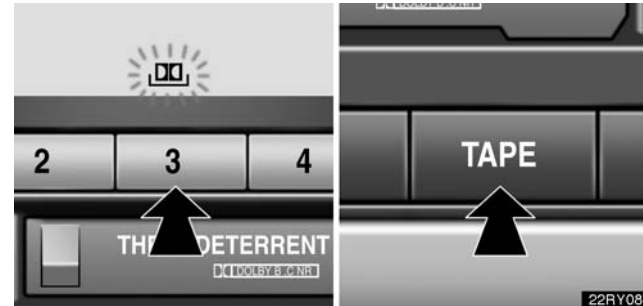


When you insert a cassette tape, the exposed tape should face to the right.

The player will automatically start when you insert a cassette tape. At this time, "TAPE" appears on the display.

To stop or eject the cassette tape, push the "" (eject) button.

Auto-reverse feature: After the cassette player reaches the end of a tape, it automatically reverses and begins to play the other side, regardless of whether the cassette was playing or fast forwarding.



If a cassette is already in the slot, push the "TAPE" button.

Dolby® Noise Reduction* feature: If you are listening to a tape that was recorded with Dolby® Noise Reduction*, push the "" button. The display will indicate that the Dolby noise reduction system is on.

The Dolby NR mode reduces tape noise by about 10 dB. For best sound reproduction, play your tapes with the Dolby NR on or off according to the mode used for recording the tape.

To play a tape recorded without Dolby NR, push the button again to turn off the Dolby NR.

* Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation. "DOLBY" and the double-D symbol  are trademarks of Dolby Laboratories Licensing Corporation.

(b) Manual program selection



“Program” button: Push the “◀▶” button to select the other side of a cassette tape. The display indicates which side is currently selected (“▲” indicates top side, “▼” indicates bottom side).

“Rewind” button: Push the “◀◀” button to rewind a tape. “REW” appears on the display.

To stop rewinding, push the same button or “TAPE” button.

“Fast forward” button: Push the “▶▶” button to fast forward a cassette tape. “FF” appears on the display.

To stop fast forwarding, push the same button or “TAPE” button.

(c) Automatic program selection

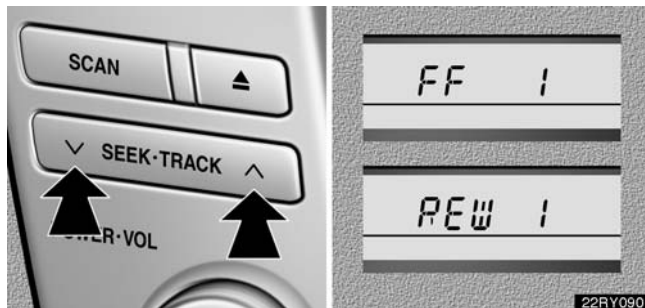


“RPT” button: The repeat feature automatically replays the current program.

Push the “RPT” button while the program is playing. When the program ends, it will automatically be rewound and replayed. Push the button again to turn off the repeat feature.

There must be at least 3 seconds of blank space between programs for the repeat feature to work correctly.

AUDIO



“Automatic program selection” button: The automatic program selection feature allows you to program your cassette player to skip forward or backward to locate the song you want to hear. You can skip up to 9 programs at a time.

Push this button on the “^” side to skip forward. “FF” and the number will appear on the display. Push the button until the number you want to skip appears on the display. After that, the player will automatically skip forward.

When the end of the tape is reached, the player automatically reverses sides and resumes normal play.

Push this button on the “V” side to skip backward. Push the button until “REW” and the number you want to skip appear on the display.

- If you set “REW 1”, the player will rewind to the beginning of the current program.
- When counting the number of programs you want to rewind, remember to count the current program as well. For example, if you want to rewind to a song that is two before the song you are listening to, push this button until “REW 3” appears on the display.

When a beginning of the tape is reached, the player automatically resumes normal play.

There must be at least 3 seconds of blank space between programs for this feature to work correctly.

“RPT” and “Automatic program selection” features: These features may not work well with some spoken word, live or classical recordings.

CD player operation

(a) Inserting or ejecting CDs

The ignition switch must be in the “ACC” or “ON” position.

Your CD player with changer can store up to 6 CDs.



- **Setting a single CD:**

- 1. Push the “LOAD” button briefly.**

The amber indicators at both ends of the slot start blinking and “WAIT” appears on the display. After the blinking indicators change to green and stay on, and “WAIT” changes to the “LOAD”, the CD door opens.

- 2. Insert only one CD while the CD door is open.**

You can set a CD at the lowest empty CD number.

After insertion, the set CD is automatically loaded.

If the label faces down, the CD cannot be played. In this case, “ERROR 1” and CD number appear on the display.

If you need to insert the next CD, repeat the same procedure to insert another CD.

- **Setting all the CDs:**

- 1. Push the “LOAD” button until you hear a beep.**

The amber indicators at both ends of the slot start blinking and “WAIT” appears on the display. After the blinking indicators change to green and stay on, and “WAIT” changes to the “LOAD”, the CD door opens.

- 2. Insert only one CD while the CD door is open.**

The CD door closes and “WAIT” appears again.

- 3. Insert the next CD after the “WAIT” changes to the “LOAD” and the CD door opens.**

- 4. Repeat this procedure until you insert all the CDs.**

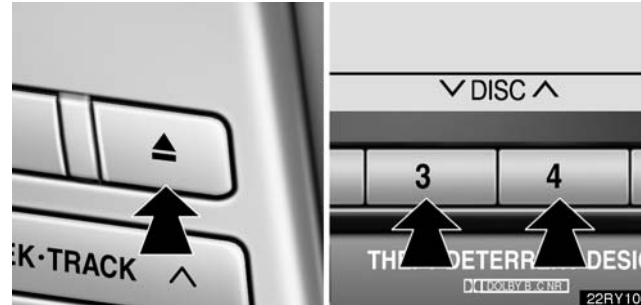
To cancel the operation, push the “LOAD” or “DISC” button.

If you do not insert CDs within 15 seconds after pushing the “LOAD” button and “LOAD” is displayed, the operation will be canceled automatically.

AUDIO

NOTICE

Do not insert one CD stacked on top of another one or feed them in continuously, to prevent CDs from getting stuck in the player.



- **Ejecting a single CD alone:**

1. Push the “∨” or “∧” button to display the CD number you want to eject.

2. Push the “▲” (eject) button for the CD briefly.

At this time, the display shows “EJECT” and the indicators at both ends of the slot as well as CD number light up.

- **Ejecting all the CDs:**

Push the “▲” (eject) button for the CD until you hear a beep.

(b) Playing a CD

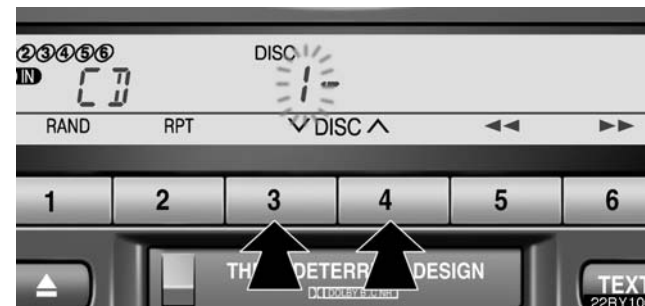
Push the “DISC” button if the CDs are already loaded in the player.

“CD” appears on the display.

The CDs set in the player are played continuously, starting with the last CD you inserted. The CD number of the CD currently being played, the track number and the time from the beginning of the program appear on the display.

When play of one CD ends, the first track of the following CD starts. When play of the final CD ends, play of the first CD starts again.

The player will skip any empty CD trays.

(c) Selecting a desired CD

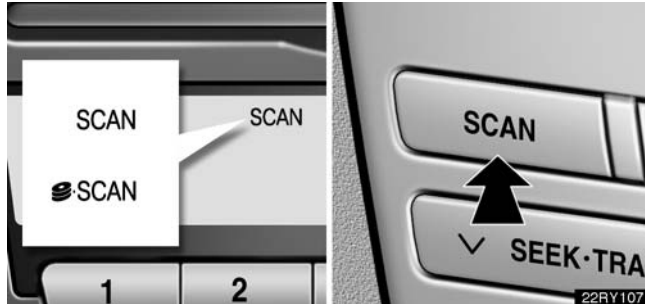
Searching for a desired CD:

Push the “V” or “^” button to select the CD number.

Push the button several times until the desired CD number appears on the display.

AUDIO

(d) Searching for a desired track or CD



Searching for a desired track:

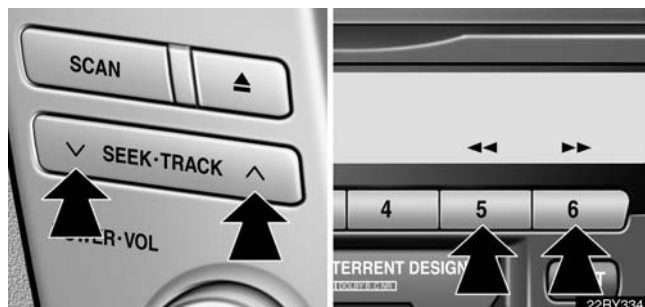
Push the "SCAN" button briefly. "SCAN" will appear on the display. The CD player will play the next track for 10 seconds, then scan again. To select a track, push the "SCAN" button a second time. If the player reaches the end of the CD, it will continue scanning at track 1.

After all the tracks are scanned in one pass, normal play resumes.

Searching for a desired CD:

Push the "SCAN" button until you hear a beep. With "SCAN" on the display, the program at the beginning of each CD will be played for 10 seconds. To continue listening to the program of your choice, push the button a second time.

After all the CDs in the automatic changer are scanned in one pass, the scan function is cancelled.

(e) Selecting a desired track

“TRACK” button: Use for direct access to a desired track.

Push either side of the “TRACK” button several times until the desired track number appears on the display. As you release the button, the player will start playing the selected track from the beginning.

“Fast forward” button: Push the “▶▶” button and hold it to fast forward the CD. When you release the button, the CD will resume playing from that position.

“Reverse” button: Push the “◀◀” button and hold it to reverse the CD. When you release the button, the CD player will resume playing.

(f) Repeating a track or a CD

“RPT” button: There are 2 repeat features — you can either replay a CD track or a whole CD.

Repeating a track: Push the “RPT” button briefly while the track is playing. “ RPT” will appear on the display. When the track ends, it will automatically be replayed. This process will be continued until you push the button again to turn off the repeat feature.

Repeating a CD: Push and hold “RPT” until you hear a beep. “ RPT” will appear on the display. The player will repeat all the tracks on the CD you are listening to. When the CD ends, the player will automatically go back to the first track on the CD and replay. To turn off the repeat feature, push this button again.

AUDIO

(g) Random playing



“RAND” button: There are 2 random features — you can either listen to the tracks on all the CDs in the player in random order, or only listen to the tracks on a specific CD in random order.

Random playing for the tracks on a CD: Push the “RAND” button briefly. “1 RAND” will appear on the display and play the CD you are listening to in random order.

Random playing for all the tracks in the automatic changer: Push the “RAND” button and hold it until you hear a beep. “ RAND” will appear on the display and the player will perform all the tracks on all the CDs in the changer in random order. To turn off the random feature, push “RAND” a second time.

When a track is skipped or the system is inoperative, push the button to reset.

(h) CD text

When you push the “TEXT” button while the CD with CD text display function (the logo “CD TEXT” marked on the CD) is being played, the track number, elapsed time, CD title and then track title appear on the display.

When you push this button if the CD does not have a text display function, “NO TITLE” appears on the display.

The display can show up to 12 letters at once. If the CD title or music title is longer than 12 letters, hold down the button until you hear a beep. The letters after the 12th one are shown. However, 24 letters at maximum can be shown on the display.

When you push this button until you hear a beep or play no operation for about 6 seconds with the letters after the 13th one on the display, the display returns and shows the first 12 letters.

Even if the CD title or music title is longer than 24 letters, the display can show up to 24 letters.

AUDIO

(i) If the player malfunctions

If the player or another unit equipped with the player malfunctions, your audio system will display one of the four following error messages.

If “WAIT” appears on the display: It indicates that the inside of the player unit may be too hot due to the very high ambient temperature. Remove the CD from the player and allow the player to cool down.

If “ERROR 1” appears on the display: It indicates that the CD is dirty, damaged, or it was inserted up-side down. Clean the CD or insert it correctly.

If “ERROR 3” or “ERROR 4” appears on the display: It indicates there is a trouble inside the system. Eject the CD.

If the malfunction is not rectified: Take your vehicle to your Lexus dealer.

AUDIO REMOTE CONTROLS



The switches are installed on the left side of the steering wheel.

“MODE” switch: Use this switch to turn on or off the audio system, or change the audio mode.

- To turn on the system, push the switch briefly. To turn off the system, push and hold the switch until you hear a beep.
- To change the audio mode, turn on the system and push the switch briefly. If a tape or CD is not inserted, the “TAPE” or “CD” mode is skipped.

The DVD player will be selectable if a rear seat entertainment system is installed in your vehicle.

“– || +” switches: Use these switches to adjust the volume.

To increase the volume, push the “+”. To decrease the volume, push the “–”. The volume continues to increase or decrease while the switch is being pressed.

(a) When the radio mode is selected

“∨” or “^” switch: Use these switches for seek tuning or to select a preset station.

- To select a preset station, push this switch briefly. The station you assigned to a switch on the audio system will be selected.
- To seek a station, push and hold this switch until you hear a beep. The radio will begin seeking up or down for a station, and will stop on reception.

(b) When the “TAPE” mode is selected

“∨” or “^” switch: Use these switches to fast forward or rewind the tape or for automatic program selection.

- To skip forward or reward for automatic program selection, push this switch briefly. When automatically selecting a program, you can skip up to 9 programs at a time. For details, see page 300 or 320 for details.
- To fast forward or rewind the tape, push this switch until you hear a beep. To stop fast forwarding or rewinding, push the same side on the switch briefly.

(c) When the “CD” mode is selected

“∨” or “^” switch: Use this switch to select a desired track.

Push this switch briefly, to select a desired track.

With a CD changer only —

“∨” or “^” switch: Use this switch to select a desired track or CD.

- To select a desired track, push this switch briefly.
- To select a desired CD, push and hold this switch until the desired number of the CD appears and you hear a beep.

Vehicles with rear seat entertainment system —

While the DVD player is in operation, the chapter or track can be changed by pushing the “^” or “∨” side of the switch.

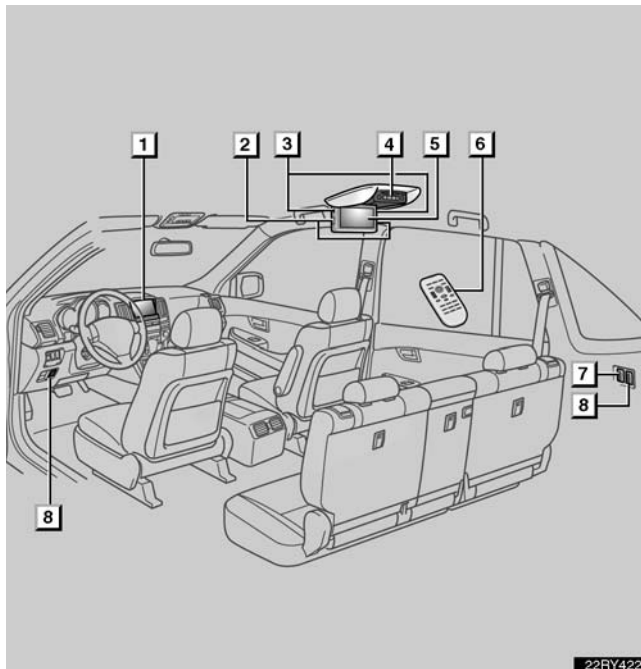


CAUTION

Operate the switches with due care while you are driving to avoid accidents.

AUDIO

REAR SEAT ENTERTAINMENT SYSTEM



- **1** *Front audio system*
- 2** *Headphone volume control dial*
- 3** *Headphone input jack*
- 4** *DVD player*
- 5** *Rear seat entertainment system display*
- 6** *Rear seat entertainment system remote control*
- 7** *Input terminal adapter*
- 8** *Power outlet and power outlet main switch (see "Power outlets — 115 VAC" on page 128 for details).*

Display

To use the display, push the lock release button and lower the display until you hear a click.

You can adjust the display to your desired angle.



To close, push up the display until you hear a click.

AUDIO

The illumination of the screen is automatically turned off when the display is closed. However, the rear seat entertainment system is not turned off.



CAUTION

To reduce the chance of injury in case of an accident or sudden stop while driving, close the display when it is not in use.

NOTICE

- *The screen should be cleaned with a dry soft cloth. If the screen is pushed by hand or wiped with a hard cloth, the surface of the screen may be scratched.*
- *Benzene or alkaline solutions may damage the coated surface of the screen.*
- *To prevent the auxiliary battery from being discharged, do not turn on the rear seat entertainment system longer than necessary when the hybrid system is not started.*

Rear seat entertainment system remote control

The rear seat entertainment system can be operated with the rear seat entertainment system remote control and the switches on the DVD player. The system cannot be operated by touching the switches on the screen directly.



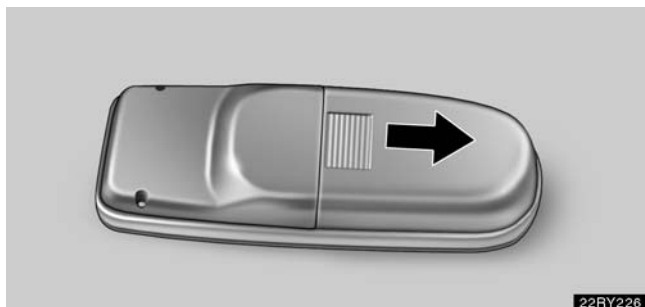
CAUTION

Do not disassemble or modify the remote control. It may cause an accident, fire or electric shock.

NOTICE

Keep the remote control away from direct sunlight, high heat and high humidity. These conditions could cause the case to deform or the batteries to explode or leak.

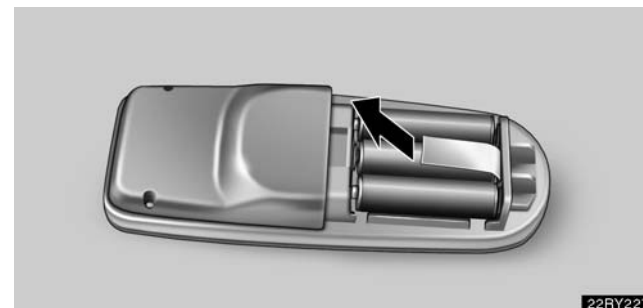
(a) Before using the remote control (for new vehicle owners)



The batteries are already set in the remote control with an insulating sheet, which prevents the batteries from being discharged. Before using the remote control, remove the insulating sheet according to the following procedure.

To remove the insulating sheet:

1. Remove the battery cover.



2. Remove the insulating sheet.

AUDIO

(b) Using the remote control



To use the rear seat entertainment system remote control, direct the signal output portion of the remote control to the signal reception portion of the rear seat entertainment system display.

The remote control does not operate properly when the signal reception portion of the display is exposed to direct sunlight. Block the display from direct sunlight.

CAUTION

To reduce the chance of injury in case of an accident or a sudden stop while driving, stow the remote control in the console box or front seatback pocket when it is not in use.

NOTICE

Observe the followings, otherwise the remote control may be damaged.

- *Do not drop or strongly knock the remote control against hard objects.*
- *Do not sit on or place heavy objects on the remote control.*
- *Do not leave the remote control exposed to high temperatures (such as on the instrument panel) for a long time, otherwise the remote control may be damaged.*

(c) Locating the remote control

If you lose sight of the remote control, push and hold the "CURSOR (REMOTE)" button on the DVD player unit until you hear a beep. A buzzer sounds from the remote control to let you know where it is.

To stop the buzzer, push any button of the remote control.

If the remote control is located close to something that blocks the signal, such as some kind of metal, the remote control may not receive the signal and the buzzer may not sound.

AUDIO

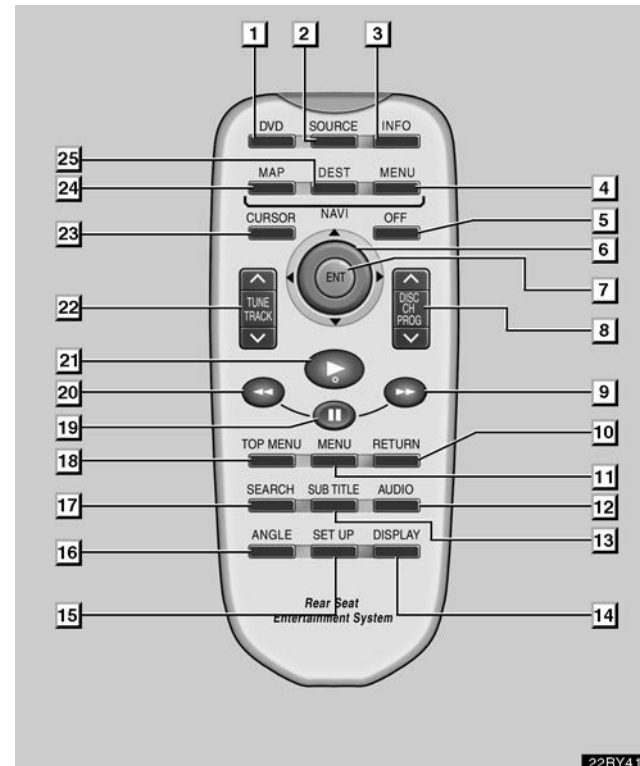
FCC Information

Caution: Any changes or modifications in construction of this device which are not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

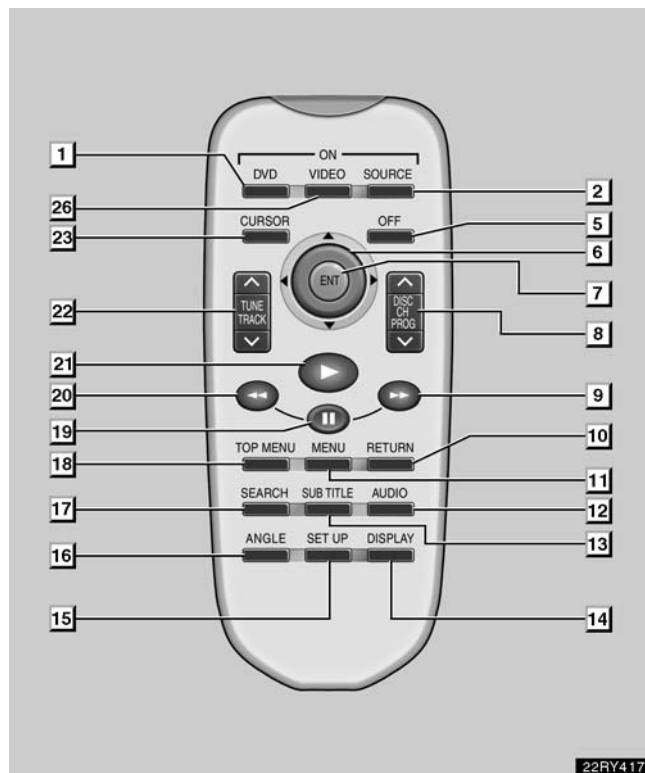
FCC Label Information

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.

Quick reference for your remote control



► With navigation system



► *Without navigation system*

AUDIO

- | | |
|---|--|
| <p>1 “DVD” button: Turn on the DVD mode.</p> <p>2 “SOURCE” button: Turn on the rear seat entertainment system and selects the mode.</p> <p>3 “INFO” button: Indicate the “Information Menu” screen. (See the separate “Navigation System Owner’s Manual”.)</p> <p>4 “MENU” button: Indicate the “Menu” screen when the navigation system is operated. (See the separate “Navigation System Owner’s Manual”.)</p> <p>5 “OFF” button: Turn off the rear seat entertainment system.</p> <p>6 Joy stick: Select a control switch, mode switch on the screen or the menu for the disc.</p> <p>7 “ENT” button: Input the selected switch or the selected menu for the disc.</p> <p>8 “DISC/CH/PROG” button: Skip directly to a desired preset station, disc, track or chapter.</p> <p>9 “▶▶” button: Fast forwards a screen when the DVD player is operated.</p> <p>10 “RETURN” button: Skip to the predetermined scene for the disc.</p> <p>11 “MENU” button: Indicate the menu screen for DVD video when the DVD player is operated.</p> <p>12 “AUDIO” button: Indicate the changing audio screen when the DVD player is operated.</p> <p>13 “SUB TITLE” button: Indicate the changing subtitle screen when the DVD player is operated.</p> <p>14 “DISPLAY” button: Adjust the color, tone, contrast and brightness of the screen.</p> | <p>15 “SET UP” button: Indicate the initial set up screen when the DVD player is operated.</p> <p>16 “ANGLE” button: Select the angle of the screen when the DVD player is operated.</p> <p>17 “SEARCH” button: Indicate the title search screen when the DVD player is operated.</p> <p>18 “TOP MENU” button: Indicate the title selection screen for DVD video when the DVD player is operated.</p> <p>19 “ ” button: Pause a screen when the DVD player is operated.</p> <p>20 “◀◀” button: Reverse a screen when the DVD player is operated.</p> <p>21 “▶” button: Play a screen when the DVD player is operated.</p> <p>22 “TUNE/TRACK” button: Operate the front audio system or select the track/chapter when the DVD player is operated.</p> <p>23 “CURSOR” button: Indicates the control switches on the screen when the DVD player is operated.</p> <p>24 “MAP” button: Indicate the map screen when the navigation system is operated. (See the separate “Navigation System Owner’s Manual”.)</p> <p>25 “DEST” button: Indicate the “Destination” screen when the navigation system is operated. (See the separate “Navigation System Owner’s Manual”.)</p> <p>26 “VIDEO” button: Turn on the video mode when your personal audio device is connected.</p> |
|---|--|

Buttons on the DVD player unit



The rear seat entertainment system can be operate with the switches on the DVD player.

1 “▲” (eject) switch: Use this switch to eject the disc from the DVD player.

2 “SOURCE” switch: Push this switch to turn on the rear seat entertainment system.

To change the audio mode, turn on the system and push the source switch until the mode you desire is displayed. If a tape or disc is not inserted, the “TAPE”, “CD” and “DVD” modes are skipped.

3 “TUNE/TRACK” switch: Use this switch to tune or seek (radio mode), fast forward or rewind (“TAPE” mode), select a desired track (“CD” mode) or select a desired chapter/track (“DVD” mode).

Radio mode: Use this switch to tune or seek.

- To tune, repeatedly push this switch briefly until your desired station is found.
- To seek, push and hold this switch until you hear a beep. The radio will begin seeking up or down the band for a station, and will stop on reception.

TAPE mode: Use this switch to fast forward or rewind a tape, or for automatic program selection.

- To skip forward or rewind using automatic program selection, push this switch briefly. By using automatic program selection, you can skip up to 9 programs at a time. For details, see page 300 or 320.
- To fast forward or rewind the tape, push and hold this switch until you hear a beep. To stop fast forwarding or rewinding, push and hold the same side of the switch until you hear a beep.

AUDIO

CD or DVD mode: Use this switch to fast forward/rewind a disc or select a desired track ("CD" mode)/chapter-track ("DVD" mode).

- To select a desired track ("CD" mode) or chapter/track ("DVD" mode), push this switch briefly.
- To fast forward or rewind a disc, push and hold this switch until you hear a beep. To stop fast forwarding or rewinding, push and hold the same side of the switch until you hear a beep.

- [4] **"DISC/CH/PROG" switch:** Use this switch to select a preset station (radio mode), reverse side of a tape ("TAPE" mode) or a desired CD ("CD" mode).

Radio mode: Push this switch to select a preset station. The station you assigned to that particular switch on the audio system will be selected.

"TAPE" mode: Push this switch to select the reverse side of a cassette tape.

"CD" mode: Push this switch to select a desired CD (for a CD changer only). Push until the desired CD number appears.

- [5] **"CURSOR (REMOTE)" switch:** Use this switch to display the DVD control switches or to locate the remote control when you lose sight of the remote control.

- [6] **Joy stick and "ENT" switch:** Use this joy stick to select a control switch, mode switch on the screen or the menu for a disc. Push the "ENT" switch to input the selected switch or menu.

- [7] **"DISC" indicator light:** This light indicates that the disc is loaded.

Using your audio system: some basics

The following instructions are for the rear passengers. Please let the rear passengers read and follow the instructions when the rear passengers use the rear seat entertainment system.

This section describes some of the basic features of the rear seat entertainment system. Some information may not pertain to your system.

Your audio system adjusts to the optimum volume and tone quality automatically. While the system is adjusting the audio sound, the audio sound fades out and then fades in.

The rear seat entertainment system is designed for the rear passengers to enjoy audio and DVD video separately from the front audio system.

The rear seat entertainment system can be operated when the ignition key is in the "ACC" or "ON" position.

The rear passengers can enjoy all modes (AM and FM radio, cassette tape player, CD player with changer and DVD player) on the rear seat entertainment system only if a cassette tape and a CD are loaded in the front audio system.

The rear seat entertainment system can play DVD video, audio CD, video CD, CD text, dts-CD or DVD audio only when a disc is loaded in the DVD player.

You can enjoy videos and sound when your personal audio system is connected to the input terminal adapter. For details, refer to the manufacturer's instructions.

You can enjoy the rear seat entertainment system with commercial headphone. See "Headphone jacks" on page 394 for details.

You can also enjoy the rear seat entertainment system with a wireless headphone. The wireless headphone can be used within rear seat. If the signal becomes weak, the headphone will mute. For details, refer to the manufacturer's instructions.

With some wireless headphone generally available in the market, it may be difficult to catch sound properly. Lexus recommends the use of Lexus genuine wireless headphone.

You can purchase a wireless headphone at a Lexus dealer.

AUDIO

CAUTION

- Do not drive with using the headphone. Otherwise, you may be hard to hear the sound from the outside while using the headphone and may cause an accident.

- With DVD player:

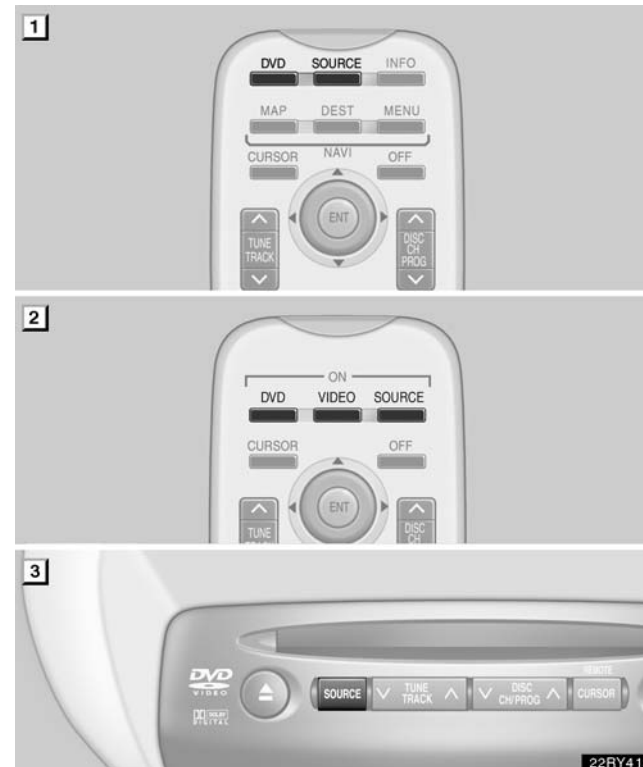
Conversational speech on some DVDs is recorded at a low volume to emphasize the impact of sound effects. If you adjust the volume assuming that the conversations represent the maximum volume level that the DVD will play, you may be startled by louder sound effects or when you change to a different audio source. Be sure to adjust the volume with this in mind.

Make sure the volume is not increased, before you turn on the headphone.

NOTICE

To prevent the auxiliary battery from being discharged, do not leave the audio system on longer than necessary when the hybrid system is off.

Turning the system on and off



- **1** *On the remote control buttons (with navigation system)*
- 2** *On the remote control buttons (without navigation system)*
- 3** *On the DVD player unit*

To turn on the system, push the “SOURCE” button.

The screen indicates which mode can be selected. Push the “DVD” or “VIDEO” button when the connected DVD player or your personal audio machine is on. The rear seat entertainment system will be turned on.

The rear seat entertainment system can select all the modes.

When a cassette tape, a CD, a DVD video disc, an audio CD, a video CD, a CD text, a dts-CD or a DVD audio disc is not loaded on the front audio system or the DVD player, only the radio mode can be selected on the rear seat entertainment system.



To turn off the system, push the “OFF” button.

When the front audio system is turned off, the rear audio system and the DVD player will be turned off simultaneously.

AUDIO

Front audio system operation

All the modes of the front audio system can be operated on the rear seat entertainment system.

When the same mode is selected on the front and rear audio systems simultaneously, the system can be operated on the front audio system.

If the radio mode is selected on the front and rear audio systems at the same time, AM and FM modes cannot be changed on the rear seat audio system.

Selecting the mode



- **1** Screen switch **2** On the remote control
3 On the DVD player unit

Use the joy stick to select the mode. Push the “ENT” button to enter the mode.

The mode display which is selected by the joy stick is colored blue. When the “ENT” button is pushed, the mode display changes to green. If the mode display is gray, it cannot be selected.

The “Speaker sound” on the mode display is selected on the front audio system.

When you select a mode, the screen indicates which is selected.

Radio operation

(a) Listening to the radio



► AM mode



► FM mode

AUDIO

Using joy stick and the “ENT” button to select either AM or FM mode.

“AM”, “FM1” or “FM2” appears on the screen.

If the front audio system receives a traffic announcement (TA) while the rear seat audio system is in the radio mode, “TRAF” will flash on the screen and the rear seat audio system will turn off. When the front audio receives a traffic announcement (TA), the rear seat audio system cannot select the AM/FM mode.

(b) Selecting a station

Tune in the desired station using one of the following methods.



- ▶ **1 On the remote control**
- 2 On the DVD player unit**

Seek tuning: Push and hold the “V” or “^” (TUNE/TRACK) button. The radio will seek up or down for a station of the nearest frequency and will stop on reception. Each time you push the button, the stations will be searched one after another.

Manual tuning: Quickly push and release the “V” or “^” (TUNE/TRACK) button. Each time you push the button, the radio will step up or down to another frequency. If you push and hold the button, and the radio will go into the seek mode.



- ▶ **1 On the remote control**
- 2 On the DVD player unit**

To scan the preset stations: You can scan only the preset stations for the band of the front audio system. Push the “V” or “^” (DISC/CH/PROG) button. The radio will tune in the next preset station up or down the band. The station frequency will appear on the screen.

Cassette tape player operation

(a) Playing a cassette tape



Using joy stick and the “ENT” button to select the cassette tape mode.

“TAPE” appears on the display.

Auto-reverse feature: After the cassette player reaches the end of a tape, it automatically reverses and begins to play the other side, regardless of whether the cassette was playing or fast forwarding.

AUDIO

(b) Manual program selection



- ▶ **1** On the remote control
- ▶ **2** On the DVD player unit

“Program” button: Push the “V” or “^” (DISC/CH/PROG) button to select the other side of a cassette tape. The screen indicates which side is currently selected. (“^” indicates the top side, “V” indicates the bottom side.)



- ▶ **1** On the remote control
- ▶ **2** On the DVD player unit

“Rewind” button: Push the “V” (TUNE/TRACK) button to rewind a tape. “REW” appears on the display.

To stop rewinding, push the same button.

“Fast forward” button: Push the “^” (TUNE/TRACK) button to fast forward a cassette tape. “FF” appears on the display.

To stop fast forwarding, push the same button.

(c) Automatic program selection

► **1 On the remote control**

2 On the DVD player unit

“Automatic program selection” button: The automatic program selection feature allows you to program your cassette player to skip forward or backward to locate the song you want to hear. You can skip up to 9 programs at a time.

Push the “^” (TUNE/TRACK) button to skip forward. “FF” and the number will appear on the display. Push the button until the number you want to skip appears on the display. After that, the player will automatically skip forward.

When the end of the tape is reached, the player automatically reverses sides and resumes normal play.

Push the “v” (TUNE/TRACK) button to skip backward. Push the button until “REW” and the number you want to skip appear on the display.

- If you set “REW 1”, the player will rewind to the beginning of the current program.
- When counting the number of programs you want to rewind, remember to count the current program as well. For example, if you want to rewind to a song that is two before the song you are listening to, push this button until “REW 3” appears on the display.

When the beginning of the tape is reached, the player automatically resumes normal play.

There must be at least 3 seconds of blank space between programs for this feature to work correctly.

This feature may not work well with some spoken word, live or classical recordings.

AUDIO

CD player operation

(a) Playing a CD



Using joy stick and the “ENT” button to select the CD mode.

“CD” appears on the display.

The CDs set in the player are played continuously, starting with the last CD you inserted. The CD number of the CD currently being played, the track number and the time from the beginning of the program appear on the display.

When play of one CD ends, the first track of the following CD starts. When play of the final CD ends, play of the first CD starts again.

The player will skip any empty CD trays.

(b) Selecting a desired CD



► **1 On the remote control**

2 On the DVD player unit

Searching for a desired CD: Push the “V” and “^” (DISC/CH/PROG) button to select the CD number.

Push the button several times until the desired CD number appears on the display. When you release the button, the player will start playing the selected CD from the first track.

(c) Selecting a desired track

- ▶ **1** On the remote control
- 2** On the DVD player unit

To select a desired track: Push the “V” or “^” (TUNE/TRACK) button until the number of the track you want to listen to appears on the screen. If you want to return to the beginning of the current track, quickly push the “V” (TUNE/TRACK) button or switch one time.

“Fast forward” button: Push the “^” (TUNE/TRACK) button and hold it to fast forward the CD. When you release the button, the CD player will resume playing from that position.

“Reverse” button: Push the “V” (TUNE/TRACK) button and hold it to reverse the CD. When you release the button, the CD player will resume playing.

Replacing remote control batteries

For replacement, use 3 AA batteries.

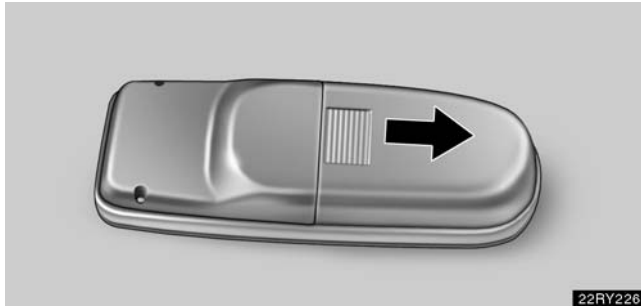
**CAUTION**

Special care should be taken that small children do not swallow the removed batteries or components.

NOTICE

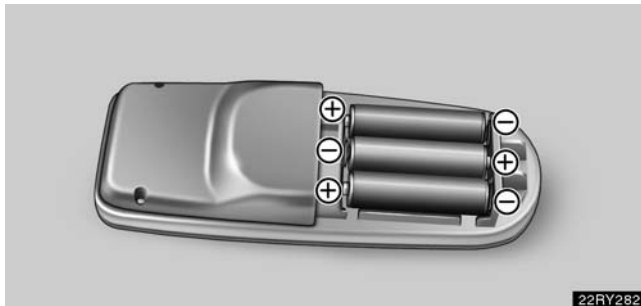
- *When replacing the batteries, be careful not to lose the cover.*
- *Replace only with the same or equivalent type of batteries recommended by a Lexus dealer.*
- *Dispose of used batteries according to local regulations.*

AUDIO



Replace the batteries according to the following procedure:

1. Remove the cover of the remote control.



2. Remove the discharged batteries and put in new batteries. Install the cover.

NOTICE

- **Be sure that the batteries are facing correctly.**
- **Do not replace the batteries with wet hands. Water may cause rust.**
- **Do not touch or move any components inside of the remote control, or it may interfere with proper operation.**
- **Be careful not to bend the electrode of the remote control battery insertion and that dust or oil does not adhere to the remote control.**
- **Close the cover securely.**

After replacing the batteries, check that the remote control operates properly. If the remote control still does not operate properly, contact your Lexus dealer.

DVD player operation

The DVD player can play audio CDs, DVD video discs, CD texts, dts-CDs, DVD audio discs and video CDs.

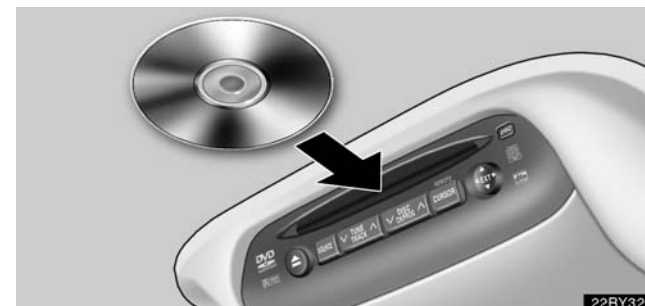
For appropriate discs for this player, see "Audio/video system operating hints" on page 395.

The DVD player works when the ignition key is in the "ACC" or "ON" position.

To turn on the DVD player, a disc must be loaded in the player.

To turn off the player, eject the disc.

(a) Inserting the disc



Insert the disc into the slot with the label side up.

If the label faces down, the disc cannot be played. In this case, "DISC CHECK" appears on the screen.

If a disc which is not playable is inserted, "DISC CHECK" will also appear on the screen. For appropriate discs for this player, see "Audio/video system operating hints" on page 395.

AUDIO



The “DISC” indicator light turns on while the disc is loaded.

The player will play the track or chapter, and it will play from the beginning of the track or chapter again after it reaches the end.

NOTICE

Never try to disassemble or oil any part of the DVD player. Do not insert anything other than a disc into the slot.

8 cm (3 in.) CD singles

Your player does not need an adaptor to play CD singles. CD singles are about 8 cm (3 in.) in diameter—smaller than standard discs.

NOTICE

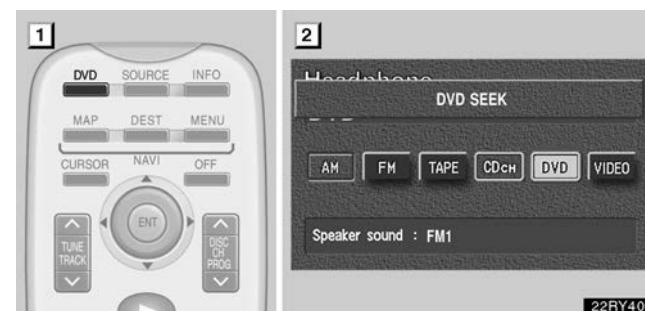
Do not use an adaptor for CD singles — it could cause tracking errors or interfere with the ejection of CDs.

(b) Ejecting the disc



Push the “▲” (eject) button.

(c) Selecting the DVD mode



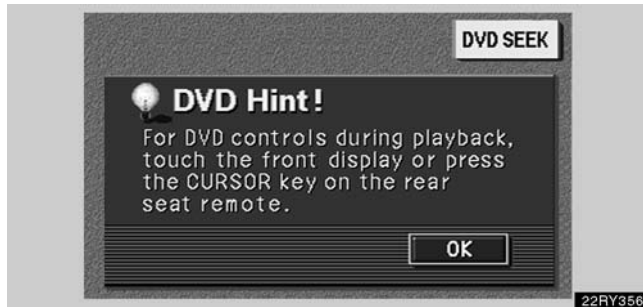
- ▶ **1 On the remote control**
- 2 Mode selection screen**

To select the DVD mode, push the “DVD” button on the remote control.

You can also select the DVD mode on the mode selection screen mentioned above.

“DVD” appears on the screen.

AUDIO



The "DVD Hint!" screen appears when the DVD mode is first selected after you turn the ignition key to the "ACC" or "ON" position.

Push the "OK" switch when you read the message.

(d) DVD player operation switches



The DVD player can be operated with the remote control buttons directly.



- **1** On the remote control
- 2** On the DVD player unit

The player can also be operated with the switches on the screen.

To operate the switches on the screen, select the switch by the joy stick and push the “ENT” button. You cannot select the switches on the screen by touching them directly.

When the switch is selected by the joy stick, the outline of the switch changes to blue. Push the “ENT” button, and the switch will be highlighted in green.

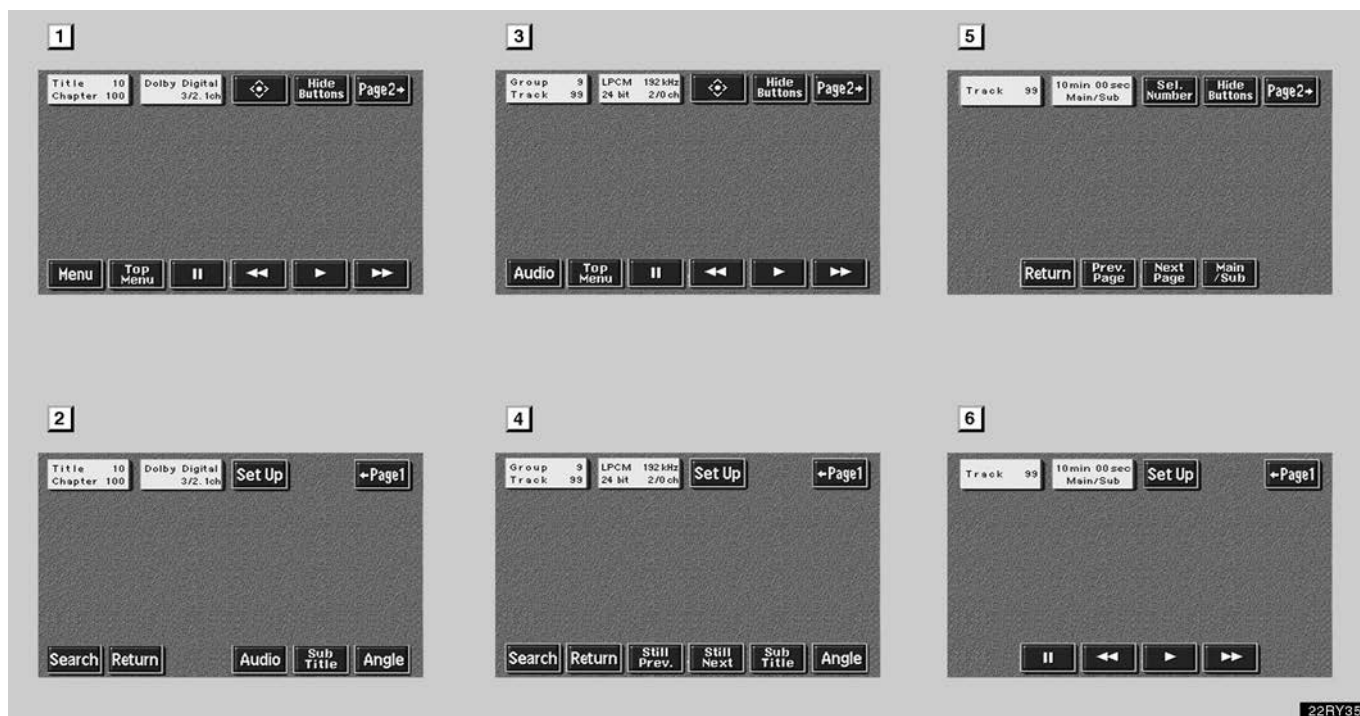
(e) Turning the operation switches on and off



- **1** On the remote control
- 2** On the DVD player unit

To turn on the operation switches, push the “CURSOR” button on the remote control.

AUDIO

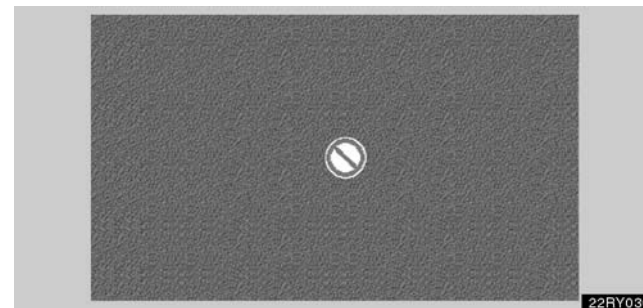


- ▶ **1** Page 1 (DVD video operation switch)
- 3** Page 1 (DVD audio operation switch)
- 5** Page 1 (video CD)

- 2** Page 2 (DVD video operation switch)
- 4** Page 2 (DVD audio operation switch)
- 6** Page 2 (video CD)

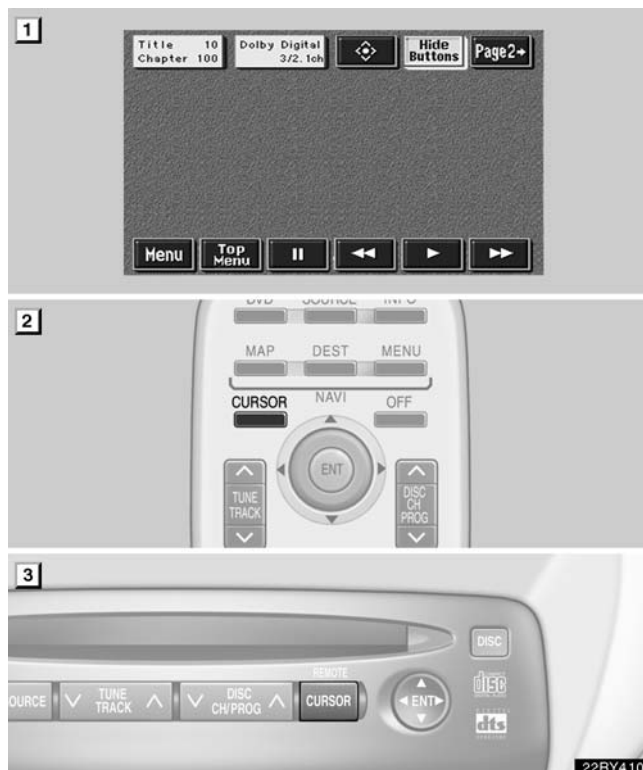
There are operation switches on the “Page 1” and “Page 2” screens.

To change the screen, push the “Page 1” or “Page 2” switch on the screen.



If “” appears on the screen when you select a switch, it indicates that the switch cannot work.

AUDIO



- **1** Screen switch **2** On the remote control
3 On the DVD player unit

To turn off the switches on the screen, push the “CURSOR” button once again or push the “Hide Buttons” on the screen.

DVD video/DVD audio player operation

NOTE: The playback condition of some DVD discs may be determined by a DVD software producer. This DVD player plays a disc as the software producer intended. So, some functions may not work properly. Be sure to read the instruction manual for the DVD disc separately provided. For the detailed information about DVD video discs, see “DVD video disc information” on page 390.

Precautions for DVD video discs

When recording on a DVD video, DVD audio, video CD or audio tracks may not record in some cases while the menu is displayed. As audio will not play in this case, verify that the video tracks are playing and then activate playback.

When playback of a disc is completed:

- If an audio CD is playing, the first track starts.
- If a DVD video, DVD audio or video CD is playing, playback will stop or the menu screen will be displayed.

The title/chapter number and playback time display may not appear while playing back certain DVD video discs.

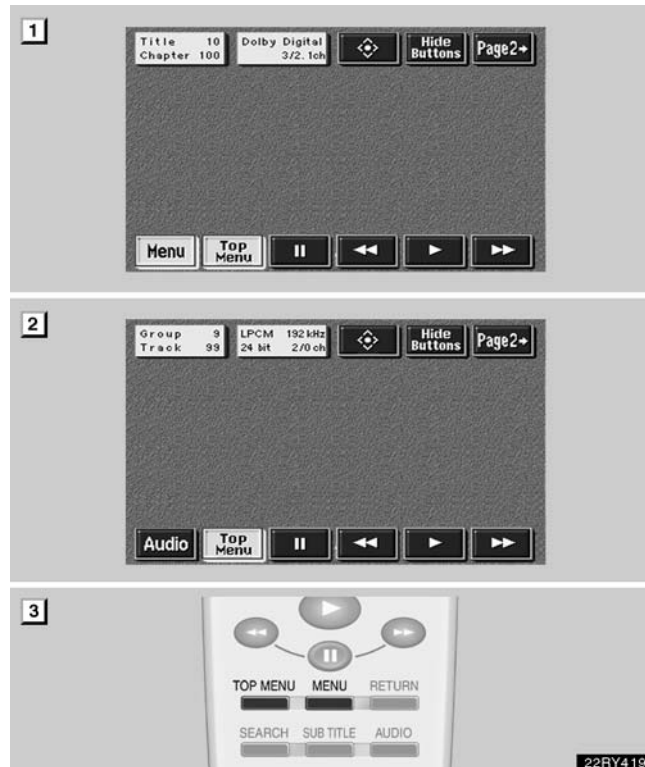


CAUTION

Conversational speech on some DVDs is recorded at a low volume to emphasize the impact of sound effects. If you adjust the volume assuming that the conversations represent the maximum volume level available for the DVD, you may be startled by louder sound effects or when you change to a different audio source. Loud sounds may have a significant impact on the human body or pose a driving hazard. Keep this in mind when you adjust the volume.

AUDIO

(a) Turning the menu screen for the disc on or off



- **1** For DVD video **2** For DVD audio
3 Remote control

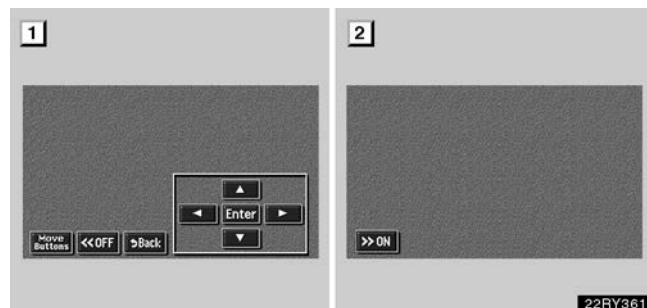
DVD video: To turn on the menu screen for the disc, push the “Top Menu” or “Menu” switch on the screen, or the “MENU” or “TOP MENU” button on the remote control.

DVD audio: To turn on the menu screen for the disc, push the “Top Menu” switch on the screen or the “TOP MENU” button on the remote control.

For the operation of the menu screen, see the separate manual for the DVD disc.



To turn on the selecting switch, push the “◀▶” switch.



- **1** *Selecting switch on screen*
2 *Selecting switch off screen*

To select the menu for the disc, push the “◀”, “▲”, “▶” or “▼” switches on the screen. Push the “Enter” switch to select the menu for the disc.

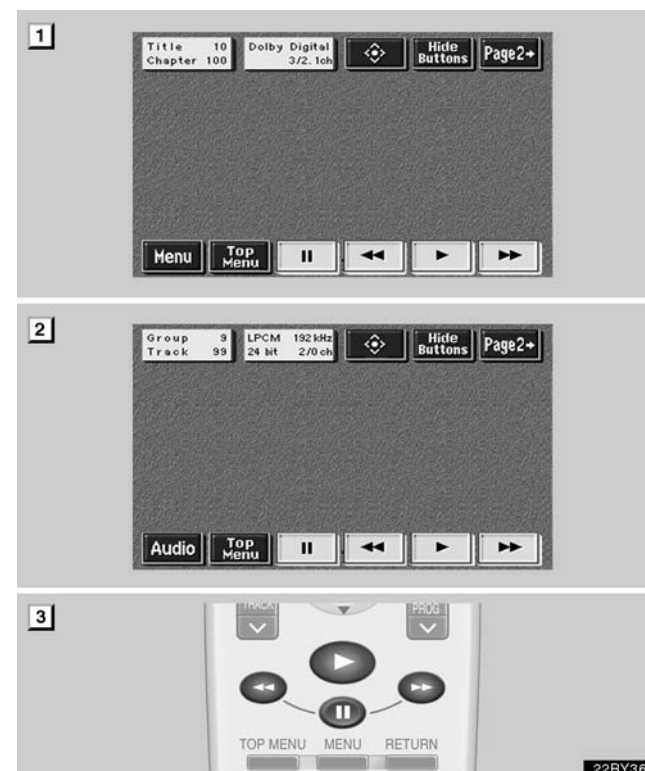
You can also select the menu for the disc by the joy stick and the “ENT” button on the remote control when the control switches are not indicated on the screen.

Push the “Move Buttons” on the screen, and the switches (“◀”, “▲”, “▶”, “▼”, “Enter” and “Move buttons” switches) will move up and down.

To turn off the switch, push the “OFF” switch on the screen. To turn on the switch again, push the “ON” switch on the screen.

To return to the previous screen, push the “Back” switch on the screen.

(b) Operating the “||”, “▶”, “◀◀” and “▶▶” switches/buttons



AUDIO

- **1** For DVD video **2** For DVD audio
3 Remote control

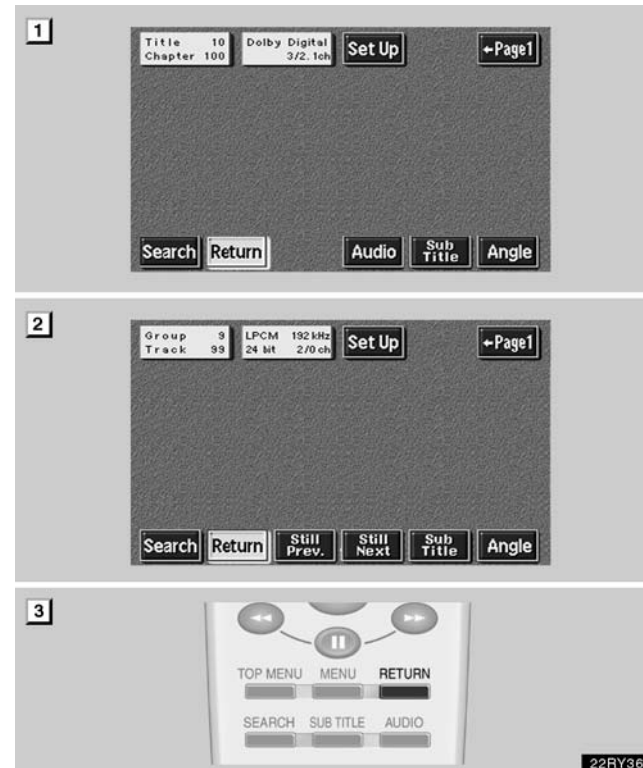
“||” switch/button: Push this switch/button to pause the disc.

“▶” switch/button: Push this switch/button to cancel the pause and return to normal playing.

“◀◀” and “▶▶” switches/buttons: Push and hold the “◀◀” or “▶▶” switch/button to fast forward or reverse. If you want to return to the beginning of the current track, release the switch/button.

DVD video only: Push the “◀◀” or “▶▶” switch/button while pausing, the DVD video plays the slow-motion video replay or the slow-motion video replay in reverse.

(c) Skipping to the predetermined screen

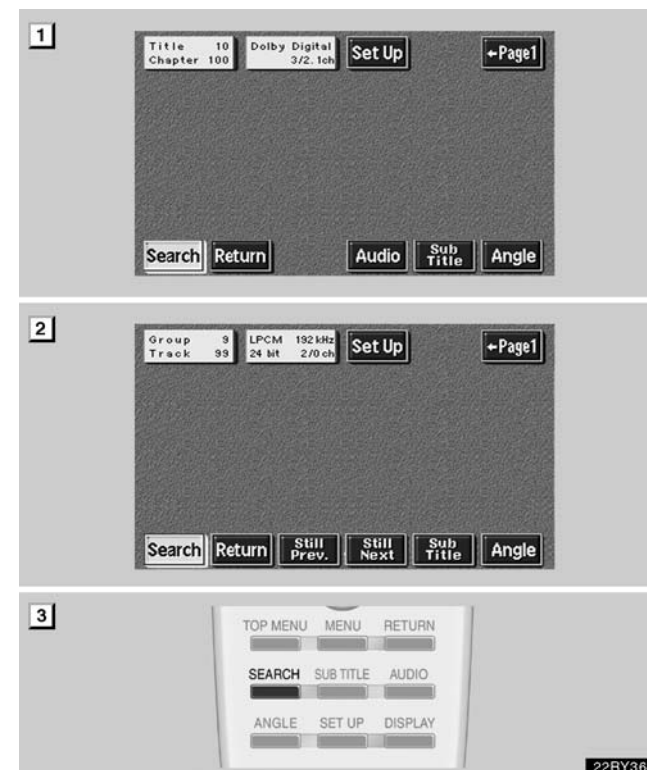


- **1** For DVD video **2** For DVD audio
3 Remote control

To skip to the predetermined screen, push the “Return” switch on the screen or the “RETURN” button on the remote control. The DVD player starts playing from the beginning of the predetermined screen.

For further details of the predetermined screen, see the separate manual for the DVD disc.

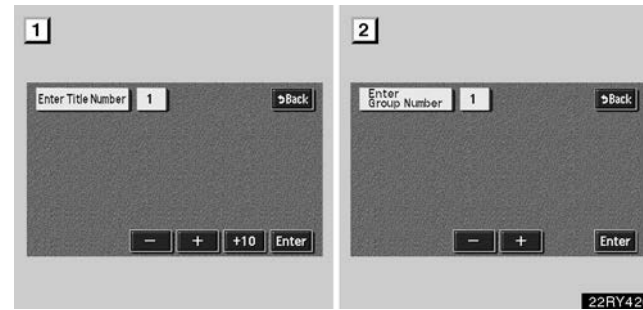
(d) Selecting the title/group



- **1** For DVD video **2** For DVD audio
3 Remote control

AUDIO

To display the searching title (DVD video) or group (DVD audio) screen, push the “Search” switch on the screen or the “SEARCH” button on the remote control.



► **1** For DVD video

2 For DVD audio

DVD video: Select the title number by using the “-”, “+” and “+10” switches and push the “Enter” switch to enter the number. The player starts playing disc for that title number. The selected title number will appear on the screen.

Push the “Back” switch to return to the menu screen.

DVD audio: Enter the group number by using the “-” and “+” switches. The selected group number will appear on the screen. Push the “Enter” switch. The player starts playing the disc from the entered group number.

Push the “Back” switch to return to the previous screen.

(e) Selecting the bonus group (DVD audio only)



Enter the bonus group number on the searching group screen and push the "Enter" switch on the screen. The "Enter Key Code" screen will appear. To enter the number of the group you want to play, push the group number.

If you enter the wrong number, push the "Clear" switch on the screen to delete the number.

Push the "Enter" switch on the screen. The player starts playing the disc from the selected bonus group number.

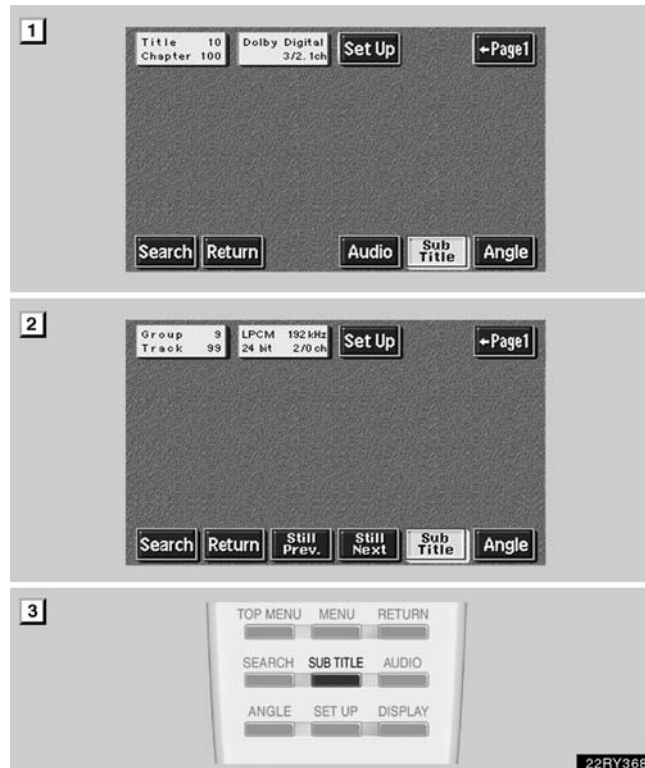
(f) Changing the still picture (DVD audio only)



Push the "Still Prev." or "Still Next" switch on the screen to forward or reverse the still pictures.

AUDIO

(g) Changing the subtitle language



- **1** For DVD video **2** For DVD audio
3 Remote control

Push the “Sub Title” switch on the screen or the “SUB TITLE” button on the remote control, and the changing subtitle language screen will appear.

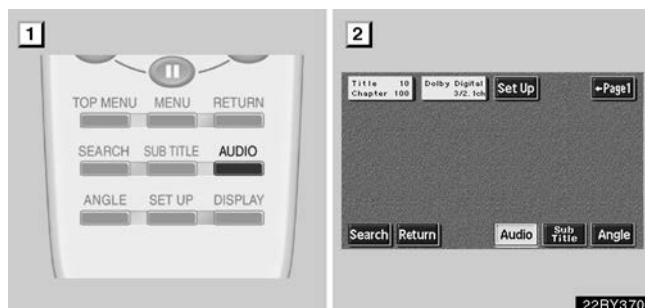


Each time you push the “Sub Title” switch, another language stored on the disc is selected.

To turn off the subtitles, push the “Hide” switch.

Push the “Back” switch to return to the previous screen.

The selected subtitle language will appear on the screen.

(h) Changing audio language**► 1 Remote control****2 Screen switch****DVD video only —**

Push the “Audio” switch on the screen or the “AUDIO” button on the remote control, and the changing audio language screen will appear.



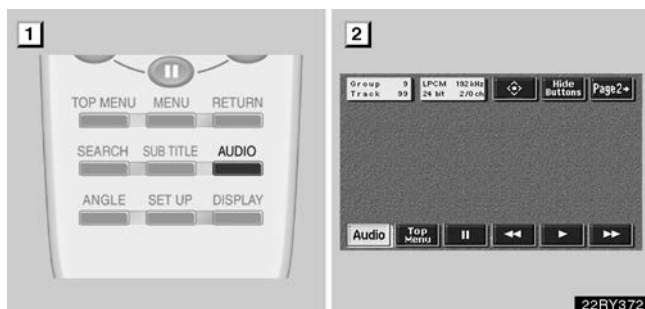
Each time you push the “Audio” switch, another language stored on the disc is selected.

The selected audio language will appear on the screen.

Push the “Back” switch to return to the previous screen.

AUDIO

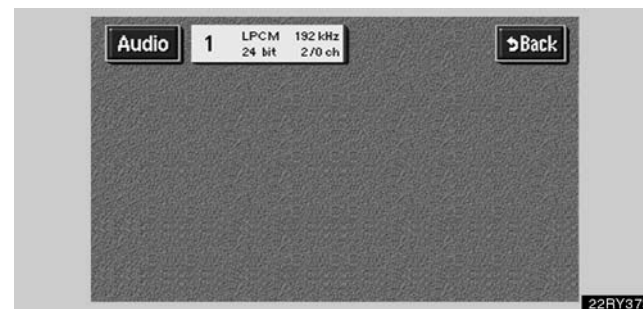
(i) Changing audio format



- **1 Remote control** **2 Screen switch**

DVD audio only —

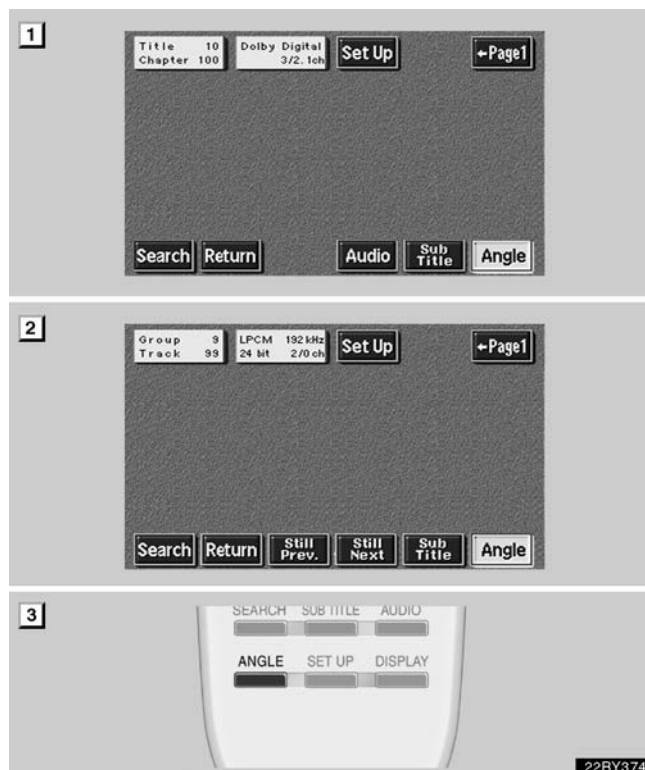
Push the “Audio” switch on the screen or the “AUDIO” button on the remote control and the changing audio format screen will appear.



Each time you touch “Audio” switch, another audio format stored on the disc is selected.

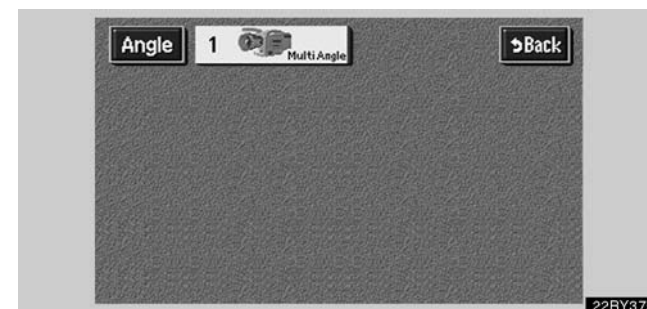
Push the “Back” switch to return to the previous screen.

(j) Changing angle screen



- 1 For DVD video 2 For DVD audio
- 3 Remote control

Push the “Angle” switch on the screen or the “ANGLE” button on the remote control, and the changing angle screen will appear.

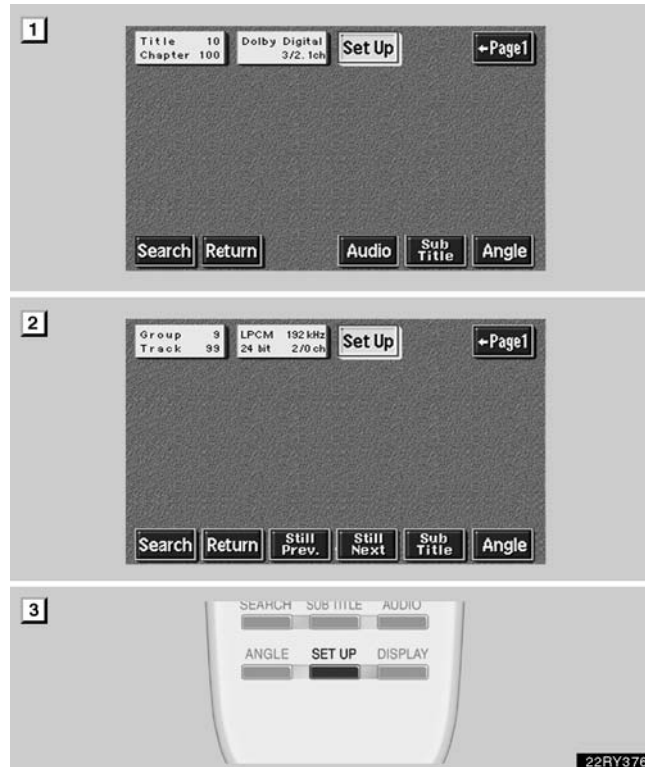


The angle can be selected for discs that are multi-angle compatible when the “” mark appears on the screen. Each time you push the “Angle” switch, the angle changes. The angle number which you can select will appear on the screen.

Push the “Back” switch to return to the previous screen.

AUDIO

(k) Changing the initial setting



- 1 For DVD video 2 For DVD audio
- 3 Remote control

Push the “Set Up” switch on the screen or the “SET UP” button on the remote control, and the initial setting screen will appear. You can change the initial setting.

After the setting is done, the player plays from the beginning of the chapter or the track.



There are initial setting switches on the “Setup Menu 1” screen 1 and “Setup Menu 2” screen 2.

To change the screen, push the “Page 1” or “Page 2” switch on the screen.

After you change the initial setting, push the “Enter” switch. The initial setting switch will be turned off and return to the picture previously.

When the “Default” switch on “Setup Menu 2” is pushed, all menus are initialized.

(I) Changing the audio language

Push the “Audio Language” switch on the “Setup Menu 1” screen **1** and the “Select Audio Language” screen **2** appear.

Select the language you want to hear on the screen.

To return to the “Setup Menu 1” screen, push the “Back” switch.

If you cannot find a language you want to hear, push the “Others” switch. The “Enter Audio Lang. Code” screen will appear.



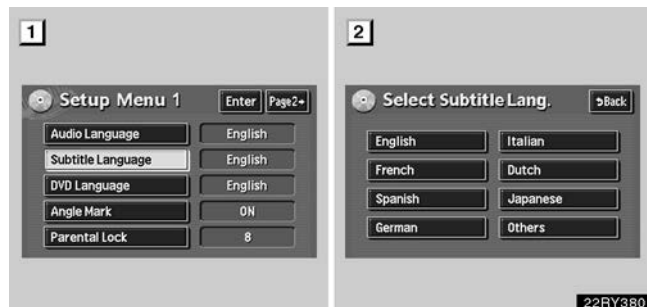
To enter the code of the language you want to hear, push the number of the language code. For details about the language codes, see the language code list. If you enter a wrong number, push the “Clear” switch to delete the number.

If numbers which are not on the list are entered and the “Enter” switch is pushed, the “Incorrect Code” screen will appear. Push the language code you want to hear again.

To return to the “Select Audio Language” screen, push the “Back” switch.

AUDIO

(m) Changing the subtitle language

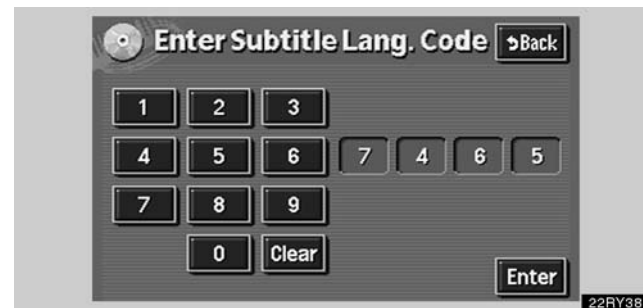


Push the “Subtitle Language” switch on the “Setup Menu 1” screen **1** and the “Select Subtitle Lang.” screen **2** appear.

Select the language you want to read on the screen.

To return to the “Setup Menu 1” screen, push the “Back” switch.

If you cannot find a language you want to read, push the “Others” switch. The “Enter Subtitle Lang. Code” screen will appear.



To enter the code of the language you want to read, push the number of the language code. For details about the language codes, see the language code list. If you enter a wrong number, push the “Clear” switch to delete the number.

Push the “Enter” switch on the screen. If numbers which are not on the list are entered and the “Enter” switch is pushed, the “Incorrect code” screen will appear. Push the language code you want to read again.

To return to the “Select Subtitle Lang.” screen, push the “Back” switch on the screen.

(n) Changing the DVD language

Push the “DVD Language” switch on the “Setup Menu 1” screen **1** and “Select DVD Language” screen **2** appear.

Select the language you want to read on the screen.

If you cannot find a language you want to read, push the “Others” switch. The “Enter DVD Language Code” screen will appear.

To return to the “Setup Menu 1” screen, push the “Back” switch.

If you cannot find a language you want to read, push the “Others” switch. The “Enter DVD Language Code” screen will appear.



To enter the code of the language you want to read, push the number of the language code. For details about the language codes, see the language code list. If you enter a wrong number, push the “Clear” switch to delete the number.

Push the “Enter” switch on the screen. If numbers which are not on the list are entered and the “Enter” switch is pushed, the “Incorrect code” screen will appear. Push the language code you want to read again.

To return to the “Select DVD Language” screen, push the “Back” switch on the screen.

AUDIO

(o) Turning the angle mark on or off



The angle mark can be turned on for discs that are multi-angle compatible.

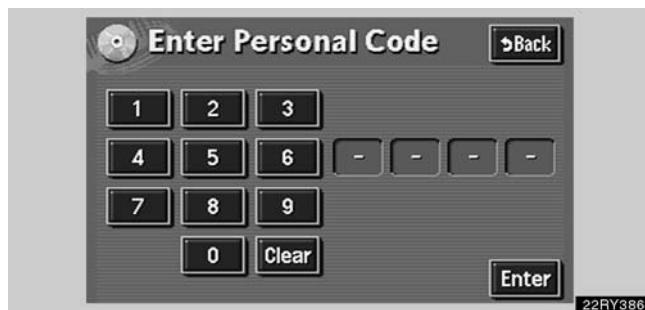
Each time you push the "Angle Mark" switch on the screen, the angle mark turns on or off alternately.

(p) Setting level of viewer restrictions



You can restrict the play back screen by setting the viewer restrictions. You can prevent the restriction with a password. Some discs do not supply a restriction.

To set the level of viewer restriction, push the "Parental Lock" switch on the "Setup Menu 1" screen. The "Enter Personal Code" screen will appear.



Push the number for the password and the “Enter” switch. The “Select Restriction Level” screen will appear.

If you enter a wrong number, push the “Clear” switch to delete the number.

You cannot change the setting without inputting the password. When you forget or change the password, push the “Clear” switch ten times to initialize the password.

To return to the “Setup Menu 1” screen, push the “Back” switch.



Push a parental level (1 — 8). The smaller the level number, the stricter the age limit. Push the “Back” switch to return to the “Setup Menu 1” screen.

AUDIO

(q) Setting the display mode



Each time you push the “Display Mode” switch on the “Setup Menu 2” screen, the display mode is changed from wide mode to auto mode.

(r) Language code list

Code	Language
1001	Japanese
0514	English
0618	French
0405	German
0920	Italian
0519	Spanish
2608	Chinese
1412	Dutch
1620	Portuguese
1922	Swedish
1821	Russian
1115	Korean
0512	Greek
0101	Afar
0102	Abkhazian
0106	Afrikaans
0113	Amharic
0118	Arabic
0119	Assamese
0125	Aymara

AUDIO

0126	Azerbaijani
0201	Bashkir
0205	Byelorussian
0207	Bulgarian
0208	Bihari
0209	Bislama
0214	Bengali
0215	Tibetan
0218	Breton
0301	Catalan
0315	Corsican
0319	Czech
0325	Welsh
0401	Danish
0426	Bhutani
0515	Esperanto
0520	Estonian
0521	Basque
0601	Persian
0609	Finnish
0610	Fiji
0615	Faroese

0625	Frisian
0701	Irish
0704	Scots–Gaelic
0712	Galician
0714	Guarani
0721	Gujarati
0801	Hausa
0809	Hindi
0818	Croatian
0821	Hungarian
0825	Armenian
0901	Interlingua
0905	Interlingue
0911	Inupiak
0914	Indonesian
0919	Icelandic
0923	Hebrew
1009	Yiddish
1023	Javanese
1101	Georgian
1111	Kazakh
1112	Greenlandic

AUDIO

1113	Cambodian
1114	Kannada
1119	Kashmiri
1121	Kurdish
1125	Kirghiz
1201	Latin
1214	Lingala
1215	Laothian
1220	Lithuanian
1222	Latvian
1307	Malagasy
1309	Maori
1311	Macedonian
1312	Malayalam
1314	Mongolian
1315	Moldavian
1318	Marathi
1319	Malay
1320	Maltese
1325	Burmese
1401	Nauru
1405	Nepali

1415	Norwegian
1503	Occitan
1513	(Afan) Oromo
1518	Oriya
1601	Punjabi
1612	Polish
1619	Pashto, Pushto
1721	Quechua
1813	Rhaeto–Romance
1814	Kirundi
1815	Romanian
1823	Kinyarwanda
1901	Sanskrit
1904	Sindhi
1907	Sangho
1908	Serbo–Croatian
1909	Sinhalese
1911	Slovak
1912	Slovenian
1913	Samoan
1914	Shona
1915	Somali

AUDIO

1917	Albanian
1918	Serbian
1919	Siswati
1920	Sesotho
1921	Sundanese
1923	Swahili
2001	Tamil
2005	Telugu
2007	Tajik
2008	Thai
2009	Tigrinya
2011	Turkmen
2012	Tagalog
2014	Setswana
2015	Tonga
2018	Turkish
2019	Tsonga
2020	Tatar
2023	Twi
2111	Ukrainian
2118	Urdu
2126	Uzbek

2209	Vietnamese
2215	Volapük
2315	Wolof
2408	Xhosa
2515	Yoruba
2621	Zulu

AUDIO

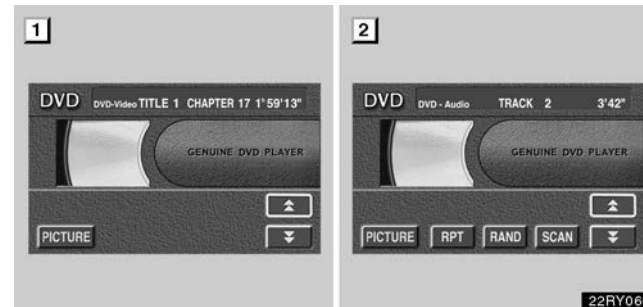
(s) Selecting the chapter/track



- ▶ **1** On the remote control
- ▶ **2** On the DVD player unit

To select the chapter/track, push the “∨” or “∧” (TUNE/TRACK) button on the remote control until the number of the chapter/track you want to select appears on the screen.

(t) Using the control screen



- ▶ **1** For DVD video
- ▶ **2** For DVD audio

When playing a disc, push the “DVD” button on the remote control. The control screen will appear on the screen.

Details of the specific switches, controls and features are described below.

“PICTURE” switch: Push the “PICTURE” switch to turn off the control screen and return to the picture previously displayed.

“RPT” switch (DVD audio only): Push the “RPT” switch while the track is playing. When the track ends, it will automatically replay. To turn off the repeat feature, push this switch again.

“RAND” switch (DVD audio only): Push the “RAND” switch. The player will play the tracks on the disc in random order. To turn off the random feature, push this switch again.

“SCAN” switch (DVD audio only): Push the “SCAN” switch. The player will scan all the tracks on the disc you are listening to. To stop scanning, push this switch again. If the player scanned all the tracks on the disc, it will stop scanning.

“” and “” switches: Push and hold the “” or “” switch to fast forward or reverse a disc. When you release the switch, the DVD player will resume playing.

(u) Error messages

If the player malfunctions, your audio system will display one of the three following error messages.

If “DISC CHECK” appears on the screen: It indicates that the disc is dirty, damaged or it was inserted upside down. Clean the disc or insert it correctly.

If “REGION CODE ERROR” appears on the screen: It indicates that the DVD region code is not set properly.

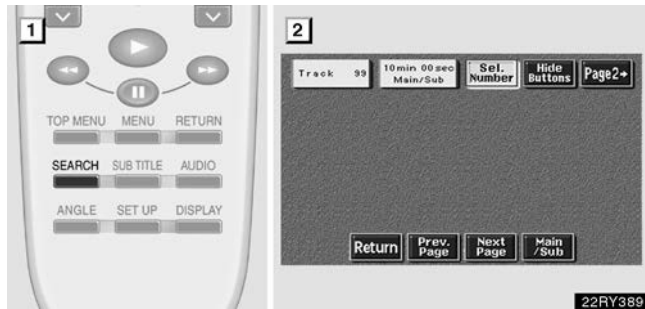
If “DVD ERROR” appears on the screen: There is a problem inside the player. Eject the disc. Set the disc again.

If the malfunction still exists, take your vehicle to your Lexus dealer.

AUDIO

Video CD/audio CD/CD text player operation

(a) Selecting the disc menu number (video CD only)



► 1 Remote control 2 Screen switch

Push the “SEARCH” button on the remote control or the “Sel. Number” switch on the screen, and the disc menu number search screen will appear.

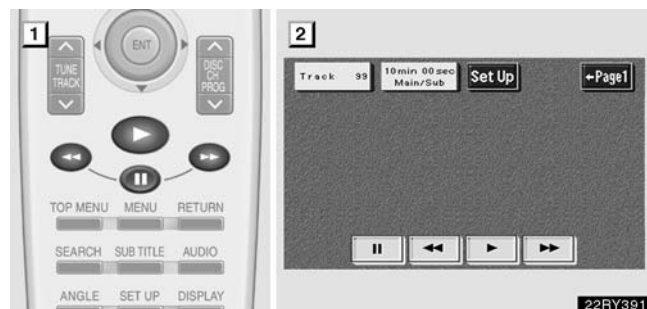


Enter the disc menu number by using the “-”, “+” and “+10” switches and push the “Enter” switch. The player starts playing the disc from the entered disc menu number. The entered disc menu number will appear on the screen.

Push the “Back” switch to return to the menu screen.

Move up and down the switches by pushing the “Move Buttons” on the screen.

(b) Operating the “||”, “▶”, “◀◀” and “▶▶” switches



▶ **1 Remote control** **2 Screen switch**

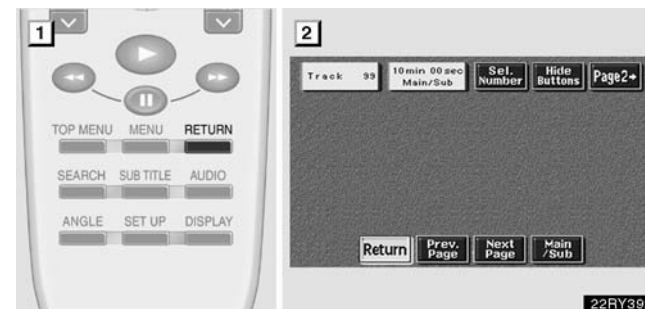
“||” switch: Push this switch to pause the disc.

“▶” switch: Push this switch to cancel the pause and return to normal playing.

“◀◀” and “▶▶” switches: Push this switch to fast forward or reverse. If you want to return to the beginning of the current track, release the switch.

Video CD only: Push the “▶▶” switch/button while pausing, the DVD video plays the slow-motion video replay.

(c) Turning on the disc menu (video CD only)



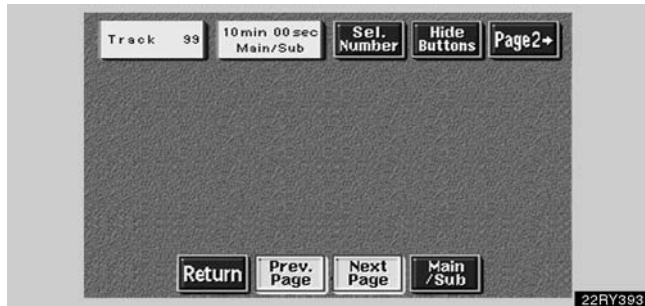
▶ **1 Remote control** **2 Screen switch**

Push the “RETURN” button on the remote control or the “Return” switch on the screen to turn on the menu screen for the disc.

For the operation of the menu screen, see the manual for the video CD.

AUDIO

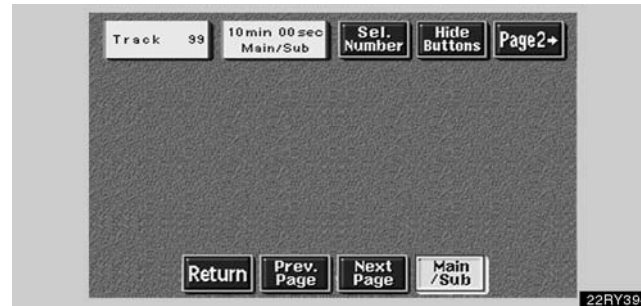
(d) Changing menu page or track (video CD only)



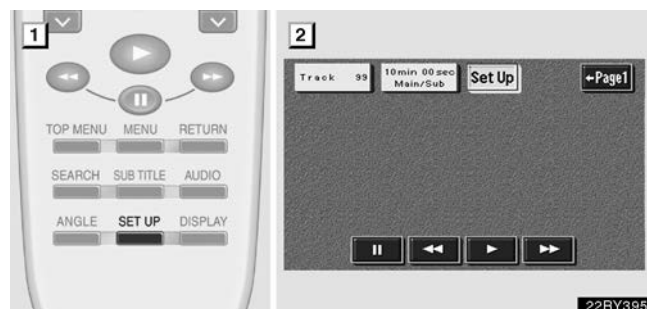
Push the "Prev. Page" or "Next Page" switch while the disc menu is displayed. The next or previous page will appear on the screen.

Push the "Prev. Page" or "Next Page" switch while the player is playing video. The next or previous track will be searched and played.

(e) Changing a multiplex transmission (video CD only)



Push the "Main/Sub" switch to change a multiplex transmission. The mode changes from Main/Sub to Main to Sub and back to Main/Sub by pushing the "Main/Sub" switch.

(f) Changing the initial setting (video CD only)

- **1 Remote control** **2 Screen switch**

Push the “SET UP” button on the remote control or the “Set Up” switch on the screen, and the initial setting screen will appear. You can change the initial setting. (See “(k) Changing the initial setting” on page 372 for details.)

After the setting is done, the player plays from the beginning of the chapter or the track.

(g) Using the control screen

- **1 For video CD** **2 For audio CD** **3 For CD text**

AUDIO

When playing a disc, push the “DVD” button on the remote control. The control screen will appear on the screen.

CD text only — The CD title and track title will appear on the screen when pushing the “DVD” button.

Details of the specific switches, controls and features are described below.

“PICTURE” switch (video CD only): Push the “PICTURE” switch to turn off the control screen and return to the picture previously displayed.

“RPT” switch (audio CD and CD text): Push the “RPT” switch while the track is playing. When the track ends, it will automatically replay. To turn off the repeat feature, push this switch again.

“RAND” switch (audio CD and CD text): Push the “RAND” switch. The player will play the tracks on the CD in random order. To turn off the random feature, push this switch again.

“SCAN” switch (audio CD and CD text): Push the “SCAN” switch. The player will scan all the tracks on the CD. To stop scanning, push this switch again. When the player has scanned all the tracks on the CD, it will stop scanning.

“▲” and “▼” switches: Push the “▲” or “▼” switch to fast forward or reverse the disc. When you push the switch again, the DVD player will resume playing.

(h) Error messages

If the player malfunctions, your audio system will display one of the three following error messages.

If “DISC CHECK” appears on the screen: It indicates that the disc is dirty, damaged or it was inserted upside down. Clean the disc or insert it correctly.

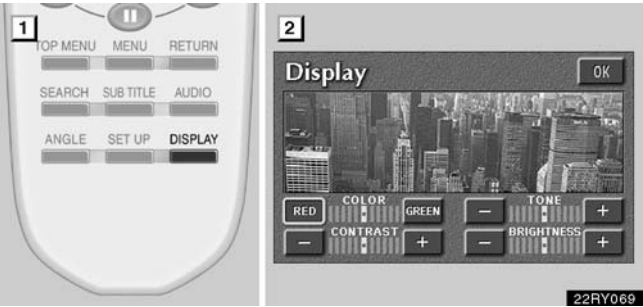
If “REGION CODE ERROR” appears on the screen: It indicates that the DVD region code is not set properly.

If “DVD ERROR” appears on the screen: There is a problem inside the player. Eject the disc. Set the disc again.

If the malfunction still exists, take your vehicle to your Lexus dealer.

Screen adjustment

You can adjust the color, contrast, tone and brightness of the screen.



Push the “DISPLAY” button on the remote control [1] and then the “Display” screen [2] will appear.

The screen may turn purple to deflect the sunlight. This is not a malfunction.



Each time you push the “+” or “-” switch, you can adjust the color, contrast, tone and brightness of the screen.

	“+” or “RED”	“-” or “GREEN”
COLOR	Strengthens the red color	Strengthens the green color
CONTRAST	Strengthens the contrast	Weakens the contrast
TONE	Strengthens the tone	Weakens the tone
BRIGHTNESS	Brightens	Darkens

After adjusting the screen, push the “OK” switch to return to the previous screen.

AUDIO

Selecting the video mode

The audio machine connected to the input terminal adapter can be played in the video mode.



- ▶ **1** Remote control (without navigation system)
- 2** Screen switch

With navigation system —

You can select the video mode on the mode selection screen mentioned above. Using joy stick and the “ENT” button, select the video mode.

Without navigation system —

To select the video mode, push the “VIDEO” button on the remote control **1**. You can also select the video mode on the mode selection screen **2** mentioned above. Using joy stick and the “ENT” button, select the video mode.

DVD video disc information

(a) DVD player and DVD video discs

This DVD player conforms to NTSC color TV formats. DVD video discs conforming to other formats such as PAL or SECAM cannot be used.

Region codes: Some DVD video discs have a region code indicating where you can use. If the DVD video disc is not labeled “ALL” or “1”, you cannot use it in this DVD player. If you attempt to play an inappropriate DVD video disc in this player, “REGION CODE ERROR” appears on the screen. Even if the DVD video disc does not have a region code, in some cases you cannot use it.

Marks shown on DVD video discs:

NTSC	Indicates NTSC format of color TV.
	Indicates the number of audio tracks.
	Indicates the number of language subtitles.
	Indicates the number of angles.
	Indicates the screen to be selected. Wide screen: 16:9 Standard: 4:3
	Indicates regions in which this video disc can be played. ALL: all countries Number: region code

(b) DVD video disc glossary

DVD video discs: Digital Versatile Disc that holds video. DVD video discs have adopted “MPEG2”, one of the world standards of digital compression technologies. The picture data is compressed by 1/40 on average and stored. Variable rate encoded technology in which the volume of data assigned to the picture is changed depending on the picture format has also been adopted. Audio data is stored using PCM and Dolby digital, which enables higher quality of sound. Furthermore, multi-angle and multi-language features will also help you enjoy the more advanced technology of DVD video.

Viewer restrictions: This feature limits what can be viewed in conformity with the level of restrictions of the country. The level of restrictions varies depending on the DVD video disc. Some DVD video discs cannot be played at all, or violent scenes are skipped or replaced with other scenes.

Level 1: DVD video discs for children can be played.

Level 2 — 7: DVD video discs for children and G-rated movies can be played.

Level 8: All types of DVD video discs can be played.

AUDIO

Multi-angle feature: You can enjoy the same scene at different angles.

Multi-language feature: You can select the language of the subtitles and audio.

Region codes: Region codes are provided on DVD players and DVD discs. If the DVD video disc does not have the same region code as the DVD player, you cannot play the disc on the DVD player. For region codes, see page 390.

Audio: This DVD player can play liner PCM, Dolby digital, dts and MPEG audio format DVD. Other decoded type cannot be played.

Title and chapter: Video and audio programs stored on DVD video discs are divided in parts by title and chapter.

Title: The largest unit of the video and audio programs stored on DVD video discs. Usually, one piece of a movie, one album, or one audio program is assigned as a title.

Chapter: A unit smaller than a title. A title comprises plural chapters.

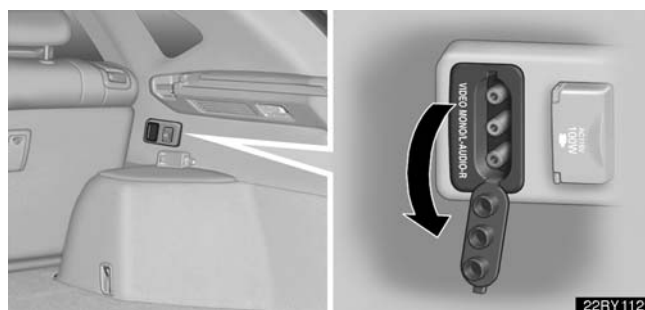
Manufactured under license from Dolby Laboratories. “Dolby”, “Pro Logic”, and “ ” are trademarks of Dolby Laboratories. Confidential unpublished works. ©1992–1997 Dolby Laboratories. All rights reserved.

This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

“dts” is a trademark of Digital Theater Systems, Inc.

A/V input adapter

The rear entertainment system plays videos and sound when an audio–video equipment is connected to the A/V input adapter. For details, refer to the manufacturer's instructions.



To use the adapter, open the cover.

The A/V input adapter is composed of 3 input adapters.

“**VIDEO**”: Image input adapter

“**MONO/L**”: Audio input adapter (mono/left)

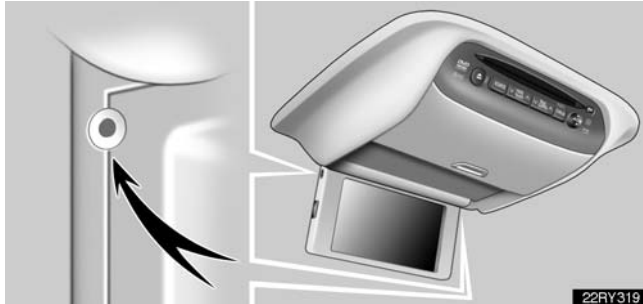
“**AUDIO-R**”: Audio input adapter (right)

NOTICE

Close the cover when the A/V input adapter is not in use. Inserting anything other than an appropriate plug may cause electrical failure or short circuit.

AUDIO

Headphone jacks



You can enjoy the rear seat entertainment system with commercial headphones.

To use the headphones, connect them to the jack.

The key must be in the "ACC" or "ON" position.



To adjust the volume of the headphones, turn the dial.

Left side dial: Turn it upward to increase the volume, turn it downward to decrease the volume.

Right side dial: Turn it downward to increase the volume, turn it upward to decrease the volume.

The maximum volume depends on the type of headphones.

With some headphone generally available in the market, it may be difficult to catch sound properly. Lexus recommends the use of Lexus genuine wireless headphone.

Please contact your Lexus dealer for further details.

 CAUTION

Adjust the volume when you connect the headphones to the jack. Loud sounds may have a significant impact on the human body.

AUDIO/VIDEO SYSTEM OPERATING HINTS**NOTICE**

To ensure correct audio/video system operation:

- *Be careful not to spill beverages over the system.*
- *Do not put anything other than a cassette tape or CD into the slot.*
- *Do not put anything other than a DVD video, DVD audio, video CD, dts-CD and audio CD into the DVD player.*
- *The use of a cellular phone inside or near the vehicle may cause a noise from the speakers of the system which you are listening to. However, this does not indicate a malfunction.*

AUDIO

Radio reception

Usually, a problem with radio reception does not mean there is a problem with your radio — it is just the normal result of conditions outside the vehicle.

For example, nearby buildings and terrain can interfere with FM reception. Power lines or telephone wires can interfere with AM signals. And of course, radio signals have a limited range. The farther you are from a station, the weaker its signal will be. In addition, reception conditions change constantly as your vehicle moves.

Here are some common reception problems that probably do not indicate a problem with your radio:

FM

Fading and drifting stations — Generally, the effective range of FM is about 40 km (25 miles). Once outside this range, you may notice fading and drifting, which increase with the distance from the radio transmitter. They are often accompanied by distortion.

Multi-path — FM signals are reflective, making it possible for two signals to reach your antenna at the same time. If this happens, the signals will cancel each other out, causing a momentary flutter or loss of reception.

Static and fluttering — These occur when signals are blocked by buildings, trees, or other large objects. Increasing the bass level may reduce static and fluttering.

Station swapping — If the FM signal you are listening to is interrupted or weakened, and there is another strong station nearby on the FM band, your radio may tune in the second station until the original signal can be picked up again.

AM

Fading — AM broadcasts are reflected by the upper atmosphere – especially at night. These reflected signals can interfere with those received directly from the radio station, causing the radio station to sound alternately strong and weak.

Station interference — When a reflected signal and a signal received directly from a radio station are very nearly the same frequency, they can interfere with each other, making it difficult to hear the broadcast.

Static — AM is easily affected by external sources of electrical noise, such as high tension power lines, lightening, or electrical motors. This results in static.

Caring for your cassette player and tapes

For the best performance for your cassette player and tapes:

Clean the tape head and other parts regularly.

- A dirty tape head or tape path can decrease sound quality and tangle your cassette tapes. The easiest way to clean them is by using a cleaning tape. (A wet type is recommended.)

Use high-quality cassettes.

- Low-quality cassette tapes can cause many problems, including poor sound, inconsistent playing speed, and constant auto-reversing. They can also get stuck or tangled in the cassette player.
- Do not use a cassette if it has been damaged or tangled or if its label is peeling off.
- Do not leave a cassette in the player if you are not listening to it, especially if it is hot outside.
- Store cassettes in their cases and out of direct sunlight.
- Avoid using cassettes with a total playing time longer than 100 minutes (50 minutes per side). The tape used in these cassettes is thin and could get stuck or tangled in the cassette player.

AUDIO

Caring for your CD player, DVD player and CDs

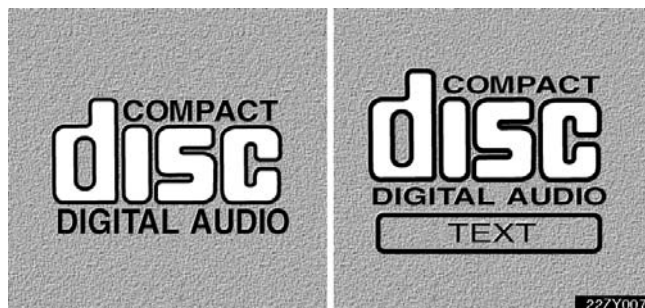
- Extremely high temperatures can keep your CD player and DVD player from working. On hot days, use the air conditioning to cool the vehicle interior before you use the players.
- Bumpy roads or other vibrations may make your CD player and DVD player skip.
- If moisture gets into your CD player and DVD player, the players may not play even though they appear to be working. Remove the disc from the player and wait until it dries.



CAUTION

CD players and DVD players use an invisible laser beam which could cause hazardous radiation exposure if directed outside the unit. Be sure to operate the players correctly.

CD player



- Use only CDs marked as shown above. The following products may not be playable on your CD player.

Copy-protected CDs
CD-Rs (CD-Recordable)
CD-RWs (CD-Re-writable)
CD-ROMs
SACDs
dts-CDs

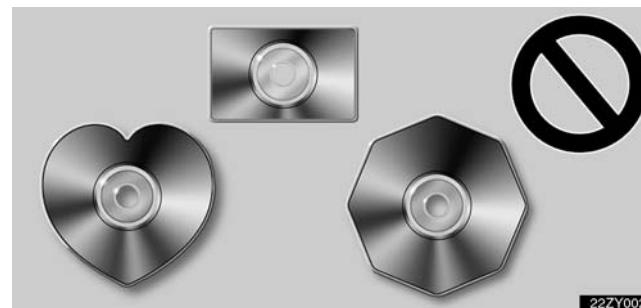
DVD player

Audio CDs	  
DVD video discs	 
DVD audio discs	
Video CDs	 

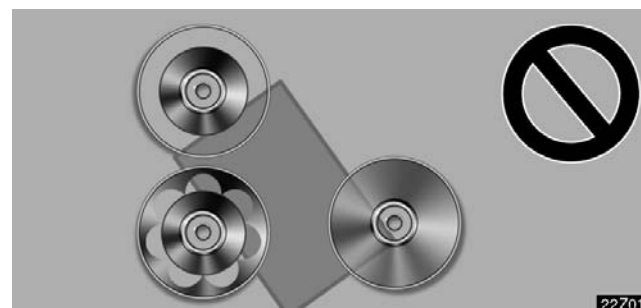
AUDIO

- Use only discs marked as shown above. The following products may not be playable on your DVD player.

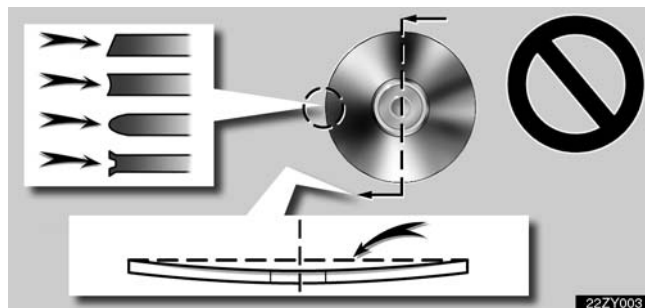
SACDs
Copy-protected CDs
CD-Rs (CD-Recordable)
CD-RWs (CD-Re-writable)
CD-ROMs
DVD-Rs
DVD+Rs
DVD-RWs
DVD+RWs
DVD-ROMs
DVD-RAMs



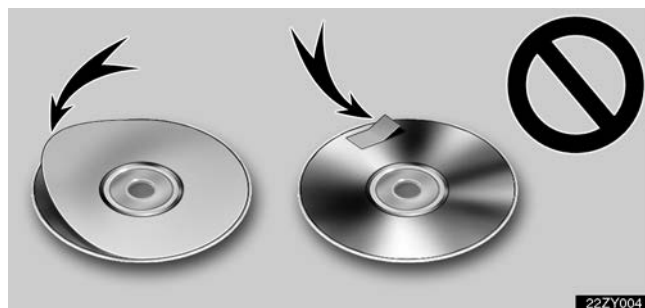
► *Special shaped CDs*



► *Transparent/translucent CDs*



► Low quality CDs



► Labeled CDs

NOTICE

Do not use special shaped, transparent/translucent, low quality or labeled CDs such as those shown in the illustrations. The use of such CDs may damage the player or changer, or it may be impossible to eject the CD.

AUDIO



► **Correct**

► **Wrong**

- Handle CDs carefully, especially when you are inserting them. Hold them on the edge and do not bend them. Avoid getting fingerprints on them, particularly on the shiny side.
- Dirt, scratches, warping, pin holes, or other CD damage could cause the player to skip or to repeat a section of a track. (To see a pin hole, hold the CD up to the light.)
- Remove CDs from the CD player when you are not listening to them. Store them in their plastic cases away from moisture, heat, and direct sunlight.



To clean a CD: Wipe it with a soft, lint-free cloth that has been dampened with water. Wipe in a straight line from the center to the edge of the CD (not in circles). Dry it with another soft, lint-free cloth. Do not use a conventional record cleaner or anti-static device.

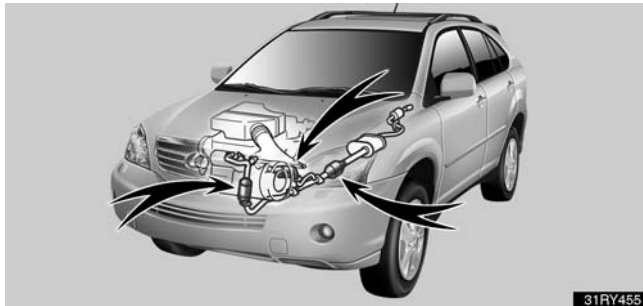
SECTION 3 – 1

STARTING AND DRIVING

Starting and driving

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THREE-WAY CATALYTIC CONVERTERS



Three-way catalytic converters are emission control devices installed in the exhaust system.

It looks somewhat like a muffler, but its purpose is to reduce pollutants in the exhaust gas.

CAUTION

- Keep people and combustible materials away from the exhaust pipe while the engine is running. The exhaust gas is very hot.
- Do not drive, idle or park your vehicle over anything that might burn easily such as grass, leaves, paper or rags.

NOTICE

A large amount of unburned gases flowing into the three-way catalytic converter may cause it to overheat and create a fire hazard. To prevent this and other damage, observe the following precautions:

- *Use only unleaded gasoline.*
- *Do not drive with an extremely low fuel level; running out of fuel could cause the engine to misfire, creating an excessive load on the three-way catalytic converter.*
- *Do not turn off the ignition while the vehicle is moving.*
- *Keep your engine in good running order. Malfunctions in the engine electrical system, electronic ignition system/distributor ignition system or fuel system could cause an extremely high temperature.*

- *If the engine becomes difficult to start or stalls frequently, take your vehicle in for a check-up as soon as possible. Remember, your Lexus dealer knows your vehicle and its three-way catalytic converter system best.*
- *To ensure that the three-way catalytic converter and the entire emission control system operate properly, your vehicle must receive the periodic inspections required by the Lexus Maintenance Schedule. For scheduled maintenance information, refer to the "Owner's Manual Supplement / Scheduled Maintenance".*
- *Do not apply a coating agent such as an anti-rust under-coating to the exhaust pipe.*

ENGINE EXHAUST CAUTION



CAUTION

- Avoid inhaling the engine exhaust. It contains carbon monoxide, which is a colorless and odorless gas. It can cause unconsciousness or even death.
- Make sure the exhaust system has no holes or loose connections. The system should be checked from time to time. If you hit something, or notice a change in the sound of the exhaust, have the system checked immediately.
- Do not start the hybrid system in a garage or other enclosed areas except to drive the vehicle in or out. In enclosed areas, exhaust gases cannot escape, making this a particularly dangerous situation.
- Do not remain for a long time in a parked vehicle with the hybrid system on. If it is unavoidable, however, make sure to park the vehicle in an unenclosed area and adjust the heating or cooling system to force outside air into the vehicle.
- Keep the back door closed while driving. An open or unsealed back door may cause exhaust gases to be drawn into the vehicle.

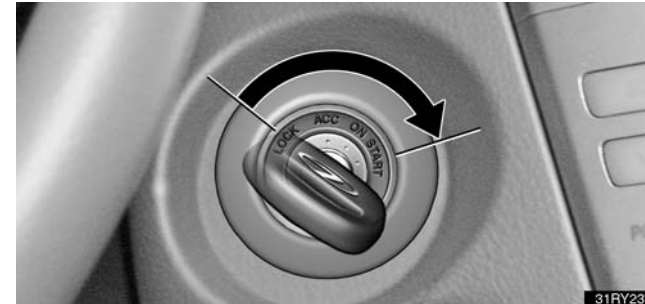
- To allow proper operation of your vehicle's ventilation system, keep the inlet grilles in front of the windshield clear of snow, leaves, or other obstructions.
- If you smell exhaust fumes in the vehicle, drive with the windows open and the back door closed. Have the cause immediately located and corrected.

BEFORE STARTING THE HYBRID SYSTEM

1. Check the area around the vehicle before entering it.
2. Adjust seat position, seatback angle, seat cushion height, seat cushion angle, head restraint height and steering wheel angle.
3. Adjust the inside and outside rear view mirrors.
4. Lock all doors.
5. Fasten seat belts.

Remember to check that the service reminder indicators function when turning the key to "ON", and check the fuel gauge to see that you have sufficient fuel.

IGNITION SWITCH



"START" — The hybrid system starts. The key returns to the "ON" position when released.

For starting tips, see page 410.

"ON" — The hybrid system and all the accessories are on.

This is the normal driving position.

It is not a malfunction if the needles on all meters and gauges move slightly when the key is turned to the "ACC", "ON" or "START" position.

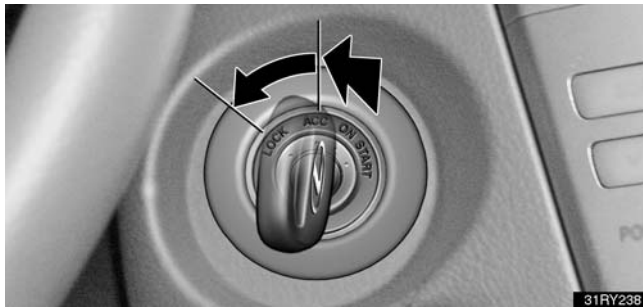
NOTICE

Do not leave the key in the "ON" position if the hybrid system is not started. The auxiliary battery will discharge and the electronic ignition system could be damaged.

STARTING AND DRIVING

“ACC” — The accessories such as the radio operate, but the hybrid system is off.

If you leave the key in the “ACC” or “LOCK” position and open the driver’s door, a buzzer will remind you to remove the key.



“LOCK” — The hybrid system is off and the steering wheel is locked. The ignition key can be removed only when it is in this position.

You must push in the key to turn it from “ACC” to the “LOCK” position. The selector lever must be put in the “P” position before turning the key to the “LOCK” position.

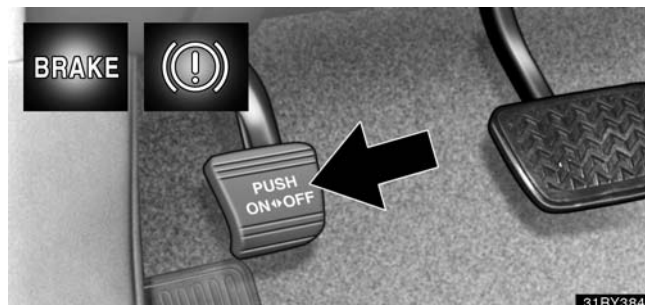
Once you remove the key, the engine immobilizer system is automatically set. See “Engine immobilizer system” on page 30.

When starting the hybrid system, the key may seem stuck at the “LOCK” position. To free it, first be sure the key is pushed all the way in, and then rock the steering wheel slightly while turning the key gently.

Approximately five hours after the engine is turned off, you may hear sound coming from underneath the luggage compartment for several minutes. This is normal operation and does not indicate a malfunction. (See “Leak detection pump” on page vii.)

If, in an emergency, you must turn the hybrid system off while the vehicle is moving, turn the key only to “ACC”.

PARKING BRAKE



To set: Hold the regular brake pedal down with your right foot. Push down the parking brake pedal with your left foot.

To release: Hold the regular brake pedal down with your right foot and push the parking brake pedal with your left foot. When you lift your left foot, the parking brake pedal will follow it to the released position.

Before leaving your vehicle, firmly apply the parking brake.

To remind you that the parking brake is set, the parking brake reminder light in the instrument panel remains on until you release the parking brake.

A warning message "PARK BRAKE" appears on the multi-information display and a warning tone sounds to remind you to release the parking brake when the vehicle speed rises above 5 km/h (3 mph) with the parking brake is applied.



CAUTION

Before driving, make sure the parking brake is fully released and that the parking brake reminder light is off.

STARTING AND DRIVING

HOW TO START THE HYBRID SYSTEM

Before starting the hybrid system

1. Apply the parking brake firmly.
2. Turn off unnecessary lights and accessories.
3. Put the selector lever in "P".
4. Depress the brake pedal and hold it to the floor until driving off.

As the hybrid system starts only with the transmission in the "P" position, put the selector lever in "P" whenever starting the system.

Starting the hybrid system

Before starting the system, be sure to follow the instructions in "Before starting the hybrid system".



Normal starting procedure

With your foot off the accelerator pedal, turn the key to "START" briefly and firmly. After a few seconds, the "READY" light will come on and a beep will sound. If the ambient temperature is low, such as during winter driving conditions, it may take time until the "READY" light comes on.

The engine may not start even with the "READY" light on.

STARTING AND DRIVING

You may hear a motor sound in the engine compartment when the brake pedal is depressed with the hybrid system off. However, this does not indicate any trouble.

When the hybrid system is started or stopped, you may hear a sound coming from the traction battery under the rear seats. However, this does not indicate any trouble.

When the hybrid system is started or stopped, or while the vehicle is idling, you may hear a sound coming from the transmission. However, this does not indicate any trouble.

When applying brakes, you may hear a sound coming from the regenerative brakes. However, this does not indicate any trouble.

When the gasoline engine is started or stopped with the hybrid system on, you may feel a vibration. However, this does not indicate any trouble.

When turning the hybrid system off, put the transmission in the "P" position.

If the system will not start, see "If your vehicle will not start" on page 480.

If there is a problem somewhere in the hybrid system, the master warning light comes on, a warning tone sounds and a warning message "CHECK HYBRID SYSTEM" will appear on the multi-information display. If this happens, contact your Lexus dealer.



CAUTION

Never start the hybrid system from outside the vehicle, or an accident may occur. Be sure to sit on the driver seat, then start the system when driving.

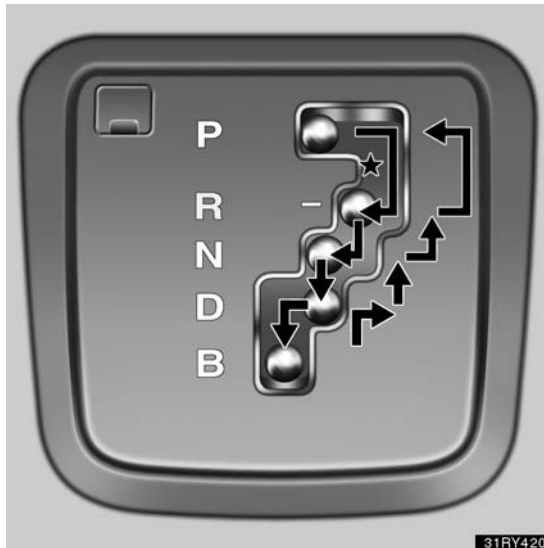
NOTICE

- ***If any service reminder indicator light comes on or warning message appears on the multi-information display (see page 86 and page 102 for details) or the auxiliary battery is disconnected, the hybrid system may not start. In that case, turn the ignition on again. If the "READY" light does not come on, contact your Lexus dealer.***
- ***When you start the hybrid system at a lower outside temperature, it may take longer before the blinking "READY" light changes to constant on.***

STARTING AND DRIVING

TRANSMISSION

Your transmission has a shift lock system to minimize the possibility of incorrect operation. This means you can only shift out of “P” position when the brake pedal is depressed with the ignition switch in “ON” position. (★)



► *The shift position is displayed on the instrument cluster.*

P: Parking, hybrid system starting and key removal position

R: Reverse position

N: Neutral position

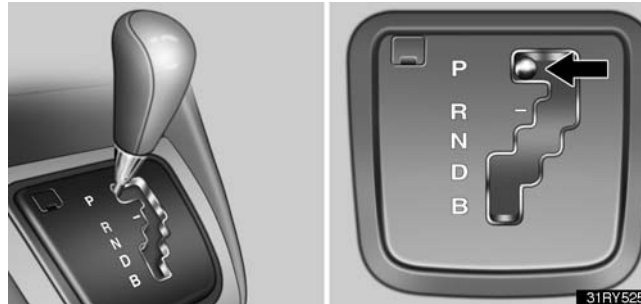
D: Normal driving position

B: Position for engine braking

Correct use of the transmission is explained in the following parts.

- (a) Normal driving
- (b) Using engine braking
- (c) Backing up
- (d) Parking
- (e) Good driving practice
- (f) If you cannot shift the selector lever

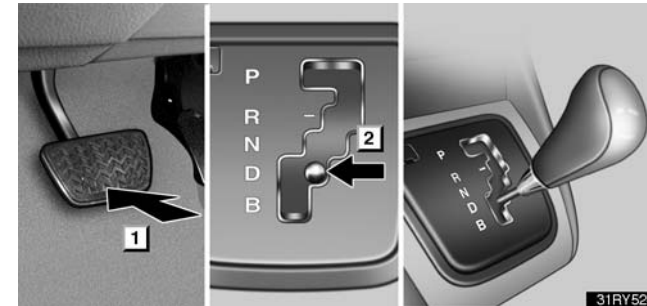
(a) Normal driving



► “P” (Park) position

1. Start the hybrid system as instructed in “How to start the hybrid system” on page 410.

The transmission must be in “P”. The hybrid system will not start in any other position, even if the ignition key is turned to “START”.



► 1 Brake pedal 2 “D” (Drive) position

2. With your foot holding down the brake pedal, shift the selector lever to “D”.

Always use the “D” position to improve fuel economy and quiet driving. (See “(b) Using engine braking” and “(e) Good driving practice” for exceptions.)



CAUTION

Never put your foot on the accelerator pedal while shifting.

3. Release the parking brake and brake pedal. Depress the accelerator pedal slowly for smooth starting.

If braking is needed, such as in descending a long hill, see “(b) Using engine braking”.

STARTING AND DRIVING

(b) Using engine braking



To use engine braking intentionally, downshift the transmission to “B” position and take your foot off the accelerator pedal.

During high speed driving you may feel that engine braking is less effective than that of ordinary vehicle.

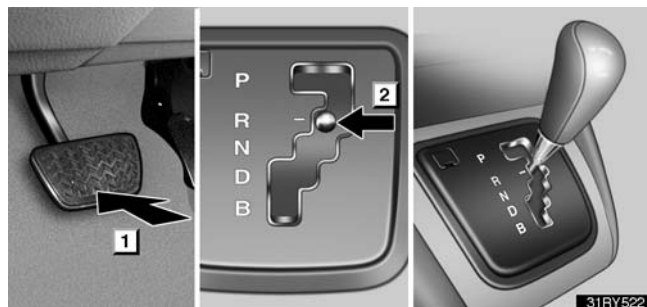
Do not continue normal driving with the transmission in “B” for a long time. This may cause decreased fuel economy.

When cruise control is being used, the vehicle will not decelerate even if you downshift from “D” to “B”. The cruise control must first be cancelled. For vehicle speed reduction, see page 420 (with cruise control) or pages 431 and 441 (with dynamic laser cruise control).

CAUTION

Be careful when downshifting on a slippery surface. The abrupt shifting could cause the vehicle to skid or spin.

(c) Backing up



► **1 Brake pedal** **2 "R" (Reverse) position**

1. Bring the vehicle to a complete stop.
2. With the brake pedal held down with your foot, shift the selector lever to the "R" position.

NOTICE

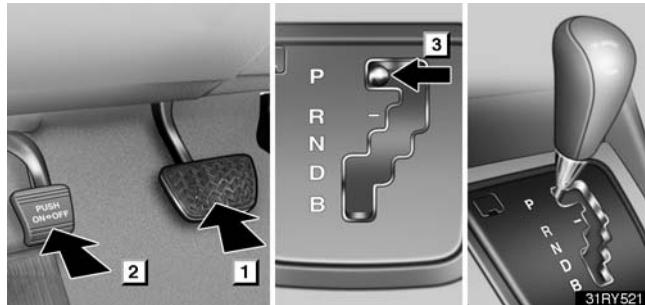
Never shift into reverse while the vehicle is moving.

Vehicles with driving position memory system —
When the shift lever is shifted into "R" position, the outside rear view mirrors automatically down to help backing up. For details, see page 255.

Vehicles with rear view monitor system —
When the selector lever is shifted into "R" position with the ignition switch in the "ON" position, rear view monitor system will activate. For instructions, see "Rear view monitor system" on page 442.

STARTING AND DRIVING

(d) Parking



- **1** *Brake pedal*
- 2** *Parking brake pedal*
- 3** *"P" (Park) position*

1. Bring the vehicle to a complete stop.
2. Depress the parking brake pedal fully to securely apply the parking brake.
3. With the brake pedal held down with your foot, shift the selector lever to the "P" position.

When turning the hybrid system off, put the transmission in the "P" position.

CAUTION

Never attempt to move the selector lever into "P" under any circumstances while the vehicle is moving. Serious mechanical damage and loss of vehicle control may result.

(e) Good driving practice

CAUTION

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

NOTICE

Always use the brake pedal or parking brake to hold the vehicle on an upgrade. Do not attempt to hold the vehicle using the accelerator pedal, as this can cause the transmission to overheat.

(f) If you cannot shift the selector lever

If you cannot shift the selector lever even though the brake pedal is depressed, use the shift lock override button. For instructions, see “If you cannot shift transmission selector lever” on page 508.

STARTING AND DRIVING

ELECTRIC POWER STEERING SYSTEM

Driving conditions where the steering wheel must be turned frequently may cause an overload to the electric power steering system. The system will reduce assistance for sometime to prevent the power steering from overheating. In this case, you may feel some resistance when turning the steering wheel though it is not a malfunction.



CAUTION

If the “P/S” warning light comes on, take your vehicle to the Lexus dealer as soon as possible. In this case, you may feel the heavy steering wheel maneuvering. Drive your vehicle while gripping the steering wheel firmly.

CRUISE CONTROL

The cruise control allows you to cruise the vehicle at a desired speed over 40 km/h (25 mph) with your foot off the accelerator pedal.

Within the limits of the hybrid system's capabilities, cruising speed will be maintained up or down grades. Because speed changes will increase in proportion to grade, cruise control should not be used on steeper hills.



CAUTION

- To help maintain maximum control of your vehicle, do not use the cruise control when driving in heavy or varying traffic, or on slippery (rainy, icy or snow-covered) or winding roads.
- Avoid vehicle speed increases when driving downhill. If the vehicle speed is too fast in relation to the cruise control set speed, cancel the cruise control then downshift the transmission to use engine braking to slow down.

(a) Turning the system on



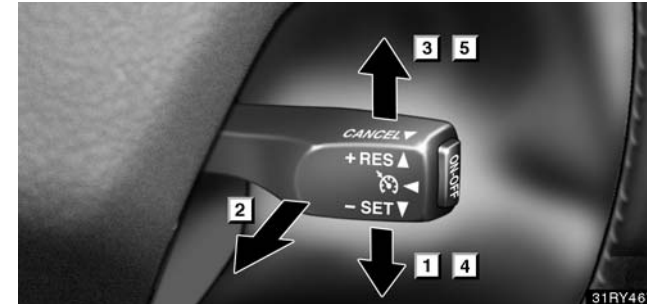
To operate the cruise control, push the main switch. This turns the system on. The indicator light in the instrument cluster shows that you can now set your desired cruising speed. Another push on the switch will turn the system completely off.

When the ignition key is turned off, the main switch is also automatically turned off. To use the cruise control again, push the main switch again to turn it on.

CAUTION

To avoid accidental cruise control engagement, keep the main switch off when not using the cruise control.

(b) Setting operation



► **Each function is described below.**

1 Setting at a desired speed.

The transmission must be in the "D" position before you set the cruise control speed.

Bring the vehicle to the desired speed, press the control lever downward in the "- SET" direction and release it. This sets the vehicle at that speed. Now you may take your foot off the accelerator pedal. If you need acceleration — for example, when passing — depress the accelerator pedal enough for the vehicle to exceed the set speed. When you release the accelerator pedal, the vehicle will return to the speed set prior to the acceleration.

STARTING AND DRIVING

2 Cancelling the preset speed

You can cancel the preset speed by either of the following:

- a. Pulling the control lever in the “CANCEL” direction.
- b. Depressing the brake pedal.

If the vehicle speed falls below about 40 km/h (25 mph), the preset speed will be automatically cancelled.

If the vehicle speed drops 16 km/h (10 mph) below the preset speed, the preset speed will also automatically be cancelled.

If the preset speed automatically cancels for reasons other than the above, there is no problem to continue driving. However, please contact your Lexus dealer.

3 Resetting to a faster speed

Press the control lever upward in the “+ RES” direction and hold it. Release the lever when the desired speed is attained. While the lever is held upward, the vehicle will gradually gain speed.

When the difference between the actual vehicle speed and the set speed is less than 5 km/h (3 mph), the set speed can be increased 1.6 km/h (1 mph) each time by pressing the control lever upward in the “+ RES” direction quickly.

However, a quicker way to reset is to accelerate the vehicle and then press the control lever downward in the “– SET” direction.

4 Resetting to a slower speed

Press the control lever downward in the “– SET” direction and hold it. Release the lever when the desired speed is attained. While the lever is held downward, the vehicle speed will gradually decrease.

When the difference between the actual vehicle speed and the set speed is less than 5 km/h (3 mph), the set speed can be lowered 1.6 km/h (1 mph) each time by pressing the control lever downward in the “– SET” direction quickly.

However, a quicker way to reset is to depress the brake pedal and then press the control lever downward in the “– SET” direction.

Even if you downshift the transmission from the “D” position to “B” (engine braking) with the cruise control on, the vehicle will not decelerate because the cruise control is not cancelled. To decrease the vehicle speed, reset to a slower speed with the cruise control lever or depress the brake pedal. If you use the brake pedal, cruise control is cancelled.

5 Resuming the preset speed

If the preset speed is cancelled by pulling the control lever or by depressing the brake pedal, pushing the lever up in the “+ RES” direction will restore the speed set prior to cancellation. However, once the vehicle speed falls below about 40 km/h (25 mph), the preset speed will not be resumed.

Cruise control failure warning

If the "CRUISE" indicator light in the instrument cluster flashes when using the cruise control, push the main switch to turn the system off and then push it again to turn it on.

If any of the following conditions then occurs, there is some trouble in the cruise control system.

- The indicator light does not come on.
- The indicator light flashes again.
- The indicator light goes out after it comes on.

If this is the case, contact your Lexus dealer and have your Lexus inspected.

DYNAMIC LASER CRUISE CONTROL

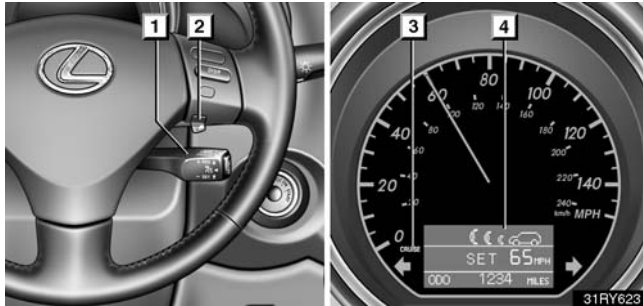
Dynamic laser cruise control allows you to drive at a constant cruising speeds over about 45 km/h (28 mph) with your foot off the accelerator pedal, maintaining an appropriate vehicle-to-vehicle distance between the vehicle ahead.



CAUTION

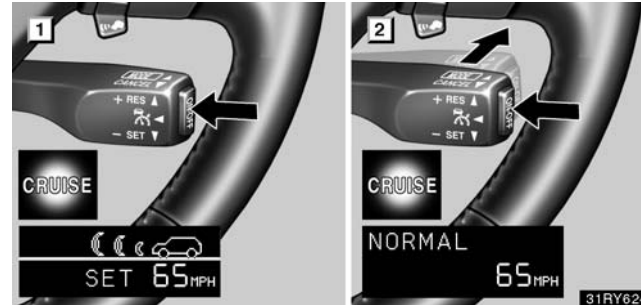
Do not rely excessively on dynamic laser cruise control in order to avoid serious injury or death, or to prevent accidents or to control the vehicle's speed in emergency situations. Do not use cruise control except in appropriate road and traffic conditions. Always drive carefully and attentively. Before using dynamic laser cruise control, read and understand the following instructions.

STARTING AND DRIVING



- ▶ **1** Cruise control switch
- 2** Distance switch
- 3** "CRUISE" indicator light
- 4** Multi-information display
(cruise control information)

Dynamic laser cruise control mode



- ▶ **1** Vehicle-to-vehicle distance control mode
- 2** Conventional cruise control mode

The dynamic laser cruise control function has two cruise control modes.

- The vehicle-to-vehicle distance control mode for maintaining an appropriate distance between vehicles
- The conventional cruise control mode for cruising at constant preset speeds

You can change the mode by using the control lever.

The two cruise control modes function differently. When using dynamic laser cruise control, always confirm which mode is selected.

For details about the vehicle-to-vehicle distance control mode, see “Vehicle-to-vehicle distance control mode” on page 423. For details about the conventional cruise control mode, see “Conventional cruise control mode” on page 438.

Vehicle-to-vehicle distance control mode

The system’s laser radar sensor detects the reflectors of vehicles and measures the vehicle-to-vehicle distance. The detection range of the sensor is about 120 m (400 ft.) ahead.

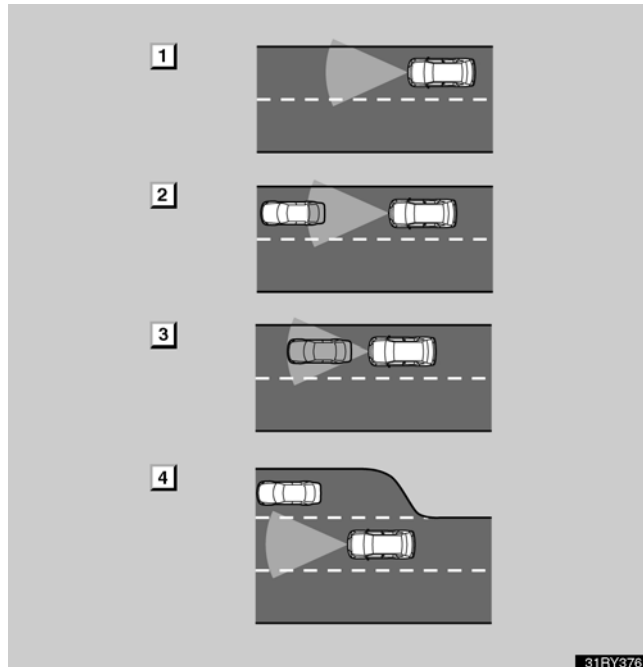


CAUTION

Dynamic laser cruise control is not a collision-avoidance system and will not prevent accidents. Dynamic laser cruise control is a vehicle speed control device that is intended for use only on freeways or roads where the traffic is light or moderate. To avoid serious injury, you must use caution and be attentive to road and traffic conditions while using dynamic laser cruise control.

STARTING AND DRIVING

(a) Dynamic laser cruise control operations



The dynamic laser cruise control function operates automatically and depending on whether a vehicle is detected ahead may change the speed of your vehicle as follows.

If no vehicle is running ahead of you —

- 1** **Cruising at a fixed speed:** If there is no vehicle detected ahead, your cruising speed is maintained at the preset speed from about 45 km/h (28 mph) to about 135 km/h (85 mph). The preset speed is displayed in the display. For the vehicle speed setting, see "(c) Setting the desired speed" on page 429.

If a vehicle is detected ahead of you —

- [2] Deceleration cruising function:** If a slower moving vehicle is detected ahead of you, your vehicle cruising speed decreases within the range of about 40 km/h (25 mph) to 135 km/h (85 mph). The display shows the preset speed, the detected vehicle ahead and the selected vehicle-to-vehicle distance. If your vehicle gets closer to the vehicle ahead because of insufficient automatic deceleration, an alarm warns you to manually apply brakes.
- [3] Follow-up cruising function:** After deceleration, your cruising speed changes to match the speed of the vehicle ahead in order to maintain a constant vehicle-to-vehicle distance. The vehicle-to-vehicle distance can be changed. For details, see “(h) Changing vehicle-to-vehicle distance” on page 432.

- [4] Acceleration cruising function:** If the vehicle ahead changes lanes, your vehicle cruising speed will be gradually increased up to the preset speed, and your vehicle resumes fixed-speed cruising.

This system operates by detecting primarily the reflectors of the vehicle ahead. The distance may not be accurately or absolutely detected in the following cases:

- The vehicle ahead has higher ground clearance, which means that the placement of the reflectors is in a higher position.
- The rear section of the vehicle ahead is extremely dirty.
- The vehicle ahead or other vehicles around you are flinging up water or snow.
- Excessive exhaust gas (black smoke) is coming from the vehicle ahead or other vehicles around you, obscuring your front view.
- There is an obstruction (protective film, sticker, etc.) on the reflectors on the vehicle ahead, or reflectors are not installed on the vehicle ahead or are damaged.
- Heavy luggage in the luggage compartment or rear seats is causing the nose of your vehicle to tilt up.

STARTING AND DRIVING



CAUTION

To avoid accidents, always keep the laser radar sensor glass clean and never allow it to be covered with icicle or any substance, so it can detect the vehicle in front. (See “(k) Laser radar sensor” on page 435.)



CAUTION

Do not rely excessively on dynamic laser cruise control. Observe the following precautions in order to avoid serious injury or death:

- Under certain conditions when the vehicle in front slows abruptly, or is stopped, the dynamic laser cruise control may be unable to decelerate automatically or to warn you. You must apply the brakes manually in order to maintain a safe vehicle-to-vehicle distance or avoid collision. Therefore, pay careful attention to vehicle-to-vehicle distance, even when using the dynamic laser cruise control.

- Do not use dynamic laser cruise control in the following conditions:

In bad weather (such as rain, fog, snow, sandstorms or direct sunlight, or when raindrops or snowflakes get on the laser radar sensor glass), the vehicle-to-vehicle distance will not be measured accurately.

When using the windshield wipers at high or low speeds, the dynamic laser cruise control turns off.

On roads with heavy traffic or sharp bends, an appropriate speed cannot be maintained and an accident may occur.

On slippery road surfaces (icy or snow-covered road surfaces), the tires will race and you will be unable to control the vehicle.

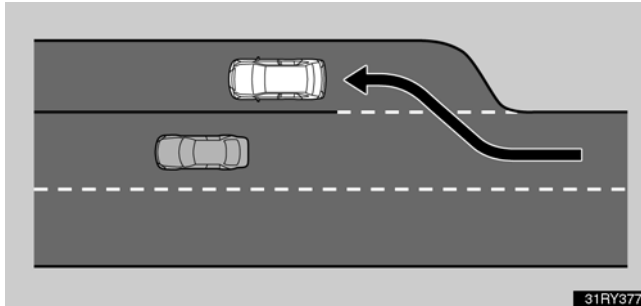
When there is no vehicle detected ahead on steep downhill slopes, the preset speed will be easily exceeded because of inefficient engine braking. (In this case, automatic braking will not work.) If there is a vehicle detected ahead, a delay in deceleration timing could cause serious injury or death.

When the alarm sounds frequently (because of frequent changes of speed or insufficient vehicle-to-vehicle distance), this indicates that the system cannot maintain an appropriate vehicle-to-vehicle distance and an accident may occur.

On roads with steep and short inclines and declines, failure to detect the vehicle ahead will shorten the distance between your vehicle and the vehicle ahead and an accident may occur.

- Deceleration cruising function and approach warning do not operate when the vehicle ahead is at a stop or driving very slowly.
- If the vehicle ahead of you decelerates abruptly or if another vehicle cuts in ahead of you, your vehicle may collide with the vehicle ahead unless you manually depress the brake pedal to slow down your vehicle.
- Depending on the road configuration (curved, left and right continuous curved, the start or end of a curve, or narrow driving lanes due to road construction) or your vehicle condition (steering wheel maneuvering, position in the lane, or unstable driving because of an accident or breakdown), vehicles in other lanes or surrounding objects may be detected, resulting in a control failure or the approach warning activation. This may also result in a very close distance between vehicles due to a failure to detect the vehicle ahead.

STARTING AND DRIVING

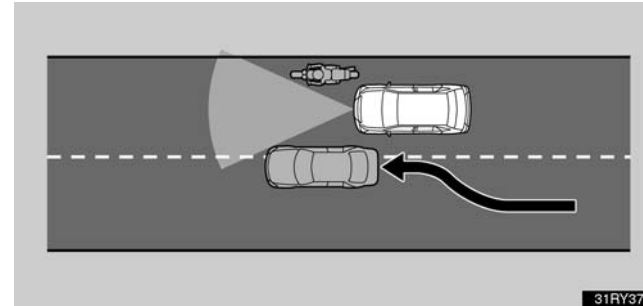


Dynamic laser cruise control should not be used in circumstances which are inappropriate for any cruise control, such as entering free way on-ramps or off-ramps.



CAUTION

- Do not use dynamic laser cruise control when exiting from or when entering or merging onto a freeway. When you are following a slower moving vehicle and exiting, the sensor does not detect the vehicle and will accelerate to the preset speed.



- If other vehicles are driving outside of the laser radar detection range, a delay in the detection of the vehicle cutting in at short range or failure to detect a motorcycle running on the side of the same lane will occur. In this case, the dynamic laser cruise control system will not function properly.
- When a slower vehicle in front of you leaves the lane, the dynamic laser cruise control will no longer detect a vehicle ahead and will attempt to accelerate the vehicle to the faster preset speed.

(b) Turning the system on



To operate dynamic laser cruise control, press the "ON-OFF" button. When the "CRUISE" indicator on the instrument cluster comes on and "RADAR READY" appears on the multi-information display, you can set the cruising speed and vehicle-to-vehicle distance. Pressing the "ON-OFF" button again turns the system off.

When the ignition is turned off, the system is also automatically turned off. To use dynamic laser cruise control again, press the "ON-OFF" button again to turn it on.

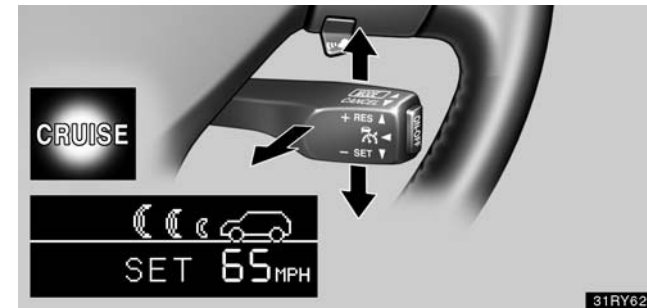
When the ignition is turned off, all the preset data is cleared. When you use the dynamic laser cruise control again, you need to reset the data.



CAUTION

To avoid accidentally engaging the cruise control, keep the "ON-OFF" button off when not using the dynamic laser cruise control.

(c) Setting the desired speed



The transmission must be in "D" before you set the cruise control speed.

STARTING AND DRIVING

Bring your vehicle to the desired speed, push the lever down in the “– SET” direction and release it. This sets the vehicle at that speed. At this time, the display indicates settings such as the preset vehicle speed, whether a vehicle is present ahead and the selected vehicle-to-vehicle distance. If no vehicle is detected ahead, the display does not indicate the vehicle ahead. You can now take your foot off the accelerator pedal.

If you need to accelerate — for example, when passing — depress the accelerator pedal enough for the vehicle to exceed the preset speed. When you release the accelerator pedal, the vehicle will return to the control prior to acceleration.

You cannot set the vehicle speed if the master warning light comes on, the alarm sounds and a warning message appears on the multi-information display. If a warning message appears on the display, see “(I) Vehicle-to-vehicle distance control mode failure warning” on page 436.

(d) Cancelling the preset speed

You can cancel the preset speed by doing any of the following:

- Pulling the lever in the “CANCEL” direction.
- Depressing the brake pedal.
- Pressing the “ON-OFF” button.

If the preset speed is cancelled by pulling the lever or depressing the brake pedal, the “RADAR READY” appears on the multi-information display and the dynamic laser cruise control enters the ready mode.

If the preset speed is cancelled by pressing the “ON-OFF” button, the “CRUISE” indicator light goes off in the instrument panel. In this case, the preset speed data is cleared, and you must set the speed from the beginning.

In the following cases, the preset speed automatically cancels out:

- The vehicle speed falls below about 40 km/h (25 mph). (40 km/h (25 mph) is designated as a cancel speed.)
- The slip indicator light blinks and an alarm sounds. (This occurs when the vehicle is about to skid.)

If cancelled by a. or b., a message “RADAR READY” appears on the multi-information display and the dynamic laser cruise control enters the ready mode.

If a warning message appears on the multi-information display, the preset speed is automatically cancelled. See “(I) Vehicle-to-vehicle distance control mode failure warning” on page 436.

If the preset speed automatically cancels out for other than the above reasons, do not operate the dynamic laser cruise control. Although there is no problem to continue driving, please contact your Lexus dealer.

(e) Resetting to a faster speed

Push the lever up in the “+ RES” direction and hold it. The displayed speed will increase in increments of 5 mph (for the U.S.A.) or 5 km/h (for Canada). Release the lever when the desired speed is attained. The vehicle speed will gradually increase to the displayed speed.

However, a faster way to reset is to accelerate the vehicle and then push the lever down in the “– SET” direction.

CAUTION

When the vehicle-to-vehicle distance control is on, your cruising speed is regulated to match the speed of the vehicle ahead. Increasing the preset speed using the control lever does not accelerate the vehicle. However, if the vehicle ahead leaves your lane, your cruising speed will increase to the speed set with the control lever. Confirm the setting on the display.

(f) Resetting to a slower speed

Push the lever down in the “– SET” direction and hold it. The displayed speed will decrease in increments of 5 mph (for U.S.A.) or 5 km/h (for Canada). Release the lever when the desired speed is attained. The vehicle speed will gradually decrease to the displayed speed.

However, a faster way to reset is to depress the brake pedal and then push the lever down in the “– SET” direction.

If the control lever is released when the vehicle speed exceeds the upper limit of the preset speed traveling downhill while you are pushing the lever down, the system will memorize the upper limit of the preset speed as a preset speed.

With the cruise control on, the vehicle will not decelerate even if you downshift from the “D” position to “B” (engine braking). The cruise control must first be cancelled. To reduce the vehicle speed, you must reset the cruising speed using the control lever or apply the brakes. Applying the brakes cancels the cruise control.

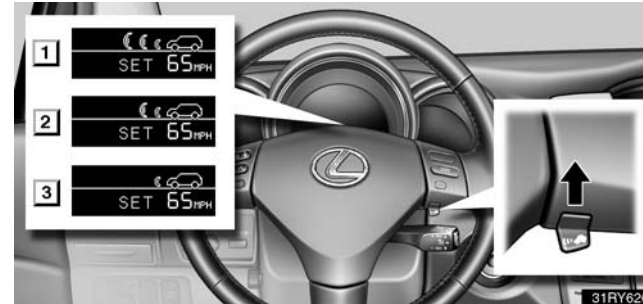
STARTING AND DRIVING

(g) Resuming the preset speed

If the preset speed has been cancelled, when you push the lever up in the “+ RES” direction while the “RADAR READY” appears on the multi-information display at a vehicle speed of more than 40 km/h (25 mph), the speed set prior to cancellation will be restored.

In vehicle-to-vehicle distance control mode, when vehicles ahead leave your lane, your vehicle will gradually accelerate up to the preset speed. Pushing the lever up in the “+RES” direction returns your vehicle to the preset speed mode quickly.

(h) Changing vehicle-to-vehicle distance



► **1 Long** **2 Middle** **3 Short**

You can select one of the distances listed below.

1. Long
2. Middle
3. Short

Pulling the distance switch briefly towards you allows you to toggle between long, middle and short vehicle-to-vehicle distances. You can confirm the setting on the display.

Your vehicle speed changes to match the speed of the vehicle ahead, maintaining the selected distance. However, if the vehicle ahead slows, the actual vehicle-to-vehicle distance will be shorter than the set distance.

When the vehicle-to-vehicle distance control mode is activated or the “RADAR READY” appears on the multi-information display, the vehicle-to-vehicle distance setting can be changed.

The vehicle-to-vehicle distance is always set to long when the ignition switch is turned on.

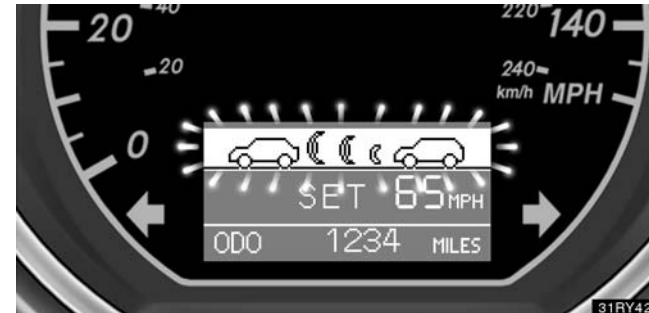
Select the vehicle-to-vehicle distance considering traffic conditions. The approximate vehicle-to-vehicle distances when driving at 88 km/h (55 mph) is shown below:

Long		about 75 m (245 ft.)
Middle		about 50 m (165 ft.)
Short		about 30 m (100 ft.)

If vehicle speeds are slower than 88 km/h (55 mph), the distance will be shorter than that listed above.

During long downhill driving, the actual vehicle-to-vehicle distance may be less than that selected by the driver.

(i) Braking control



Dynamic laser cruise control is not a collision avoidance system. If the approach warning is activated, decelerate by applying the brakes to ensure an appropriate vehicle-to-vehicle distance.

If you are nearing the vehicle ahead traveling at a higher speed than the vehicle ahead or if engine braking cannot be applied properly, braking control is automatically activated. At this time, the display flashes.

Braking control operates only when the vehicle-to-vehicle distance control mode is selected and your vehicle speed exceeds about 40 km/h (25 mph). If the speed falls below about 40 km/h (25 mph), braking control will cease, requiring the manual application of brakes.

STARTING AND DRIVING



CAUTION

Braking control will not ensure that your vehicle will reduce speed appropriately. You must depress the brake pedal to slow down, in order to avoid a collision or to maintain sufficient vehicle-to-vehicle distance.

(j) Approach warning

While you are cruising in the vehicle-to-vehicle distance control mode, if the vehicle ahead decelerates abruptly or if another vehicle cuts in ahead of you, your vehicle may come closer to the vehicle ahead. The display will flash and beep to alert you.



CAUTION

- If the display flashes and beeps, this indicates that you must depress the brake pedal in order to slow down sufficiently to avoid a collision or maintain appropriate vehicle-to-vehicle distance.
- In the following conditions, the approach warning may not turn on even if the vehicle drives closer to the vehicle ahead, and an accident may occur:

Your vehicle and the vehicle ahead are cruising at almost the same speed.

The vehicle ahead is cruising at a faster speed than yours. (The distance between the vehicles will become longer.)

The vehicle ahead is at a stop or driving very slowly. Pay special attention to a very slow vehicle at the end of the line in heavy traffic or at a tollgate.

The speed has just been set.

The accelerator pedal is depressed or has just been released.

(k) Laser radar sensor

The laser radar sensor is used for vehicle-to-vehicle distance control cruising.

If dirt is on the sensor glass, the dynamic laser cruise control function is automatically cancelled and a warning message “CLEAN RADAR SENSOR” appears on the display. (See “(l) Vehicle-to-vehicle distance control mode failure warning” on page 436.)

However, if the glass sensor is covered with ice or another transparent substance, dirt may not be detected.

Before using the vehicle-to-vehicle distance control mode, make sure the laser radar sensor glass is clean.

This product is a class I laser product complied with 21 C.F.R part 1040.10. and 1040. 11.

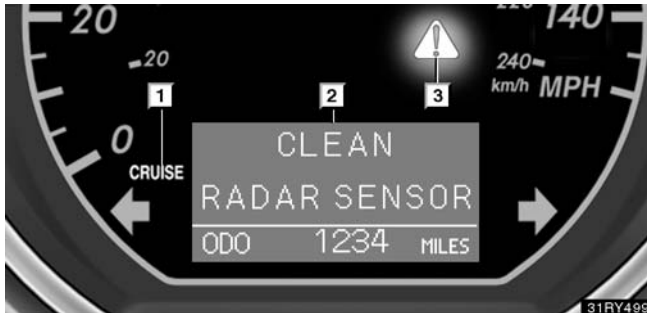
**CAUTION**

To ensure that dynamic laser cruise control will function properly while driving, observe the following:

- Always keep the laser radar sensor glass clean. When cleaning, use a soft cloth and be careful not to damage the sensor.
- Avoid strong impacts around the laser radar sensor. An incorrect laser radar sensor alignment will result in system malfunction. A special device is required to adjust the laser radar sensor alignment. Be sure to have the sensor adjusted by your Lexus dealer.
- Do not affix a sticker (including a transparent sticker) or attach an accessory around the laser radar sensor.

STARTING AND DRIVING

(I) Vehicle-to-vehicle distance control mode failure warning



- ▶ **1** *"CRUISE" indicator light*
- 2** *Warning message*
- 3** *Master warning light*

If a system malfunction is detected when the vehicle-to-vehicle distance control mode is on, the master warning light comes on, a warning tone sounds and a warning message appears on the display. Dynamic laser cruise control is automatically cancelled.

If "CHECK CRUISE SYSTEM" appears on the multi-information display, the "CRUISE" indicator light in the instrument cluster also flashes.

If "CLEAN RADAR SENSOR" appears on the display, the system cannot easily measure the vehicle-to-vehicle distance because of a dirty laser radar sensor glass.

If this message appears, clean the sensor glass with a soft cloth and try setting the preset speed again. If the dirt is removed without cleaning, the system will automatically enter the ready mode.

If the system does not enter the ready mode even after cleaning or the message remains on the display, the system may be malfunctioning. Although the vehicle may still be operated, please contact your Lexus dealer.

CAUTION

Always keep the sensor glass clear and never allow it to be covered with icicle or any substance, so it can detect the vehicle in front.

STARTING AND DRIVING

If **“CRUISE NOT AVAILABLE”** appears on the display, the system may be having trouble measuring the vehicle-to-vehicle distance because of any of the following:

- The wipers are operating at high or low speeds
- Direct sunlight from the front
- It is difficult to make a measurement because of bad weather (such as rainy, foggy, or snowy weather)

In the following cases, dynamic laser cruise control switches to the ready mode:

- The wipers are stopped or are switched to variable intermittent operation.
- No direct sunlight from the front

In the above conditions, push the lever up in the “+ RES” direction and release it. Dynamic laser cruise control will be restored. If the setting operation cannot be performed or if the same message still appears even after the weather clears, the system might have malfunctioned. Although there is no problem to continue driving, please contact your Lexus dealer.

If **“CHECK CRUISE SYSTEM”** appears on the display, a system malfunction has been detected.

If this warning message appears, stop your vehicle in a safe place, turn the ignition off, and then restart it to reset the system. If the same message appears again or if the cruise control cannot be set, the system may be malfunctioning. Although there is no problem to continue driving, please contact your Lexus dealer.

STARTING AND DRIVING

Conventional cruise control mode

This mode allows you to cruise at constant speed over about 45 km/h (28 mph) with your foot off the accelerator pedal.

Within the limits of the hybrid system's capabilities, cruising speed will be maintained up or down grades. Because speed changes will increase in proportion to grade, cruise control should not be used on steeper hills.



CAUTION

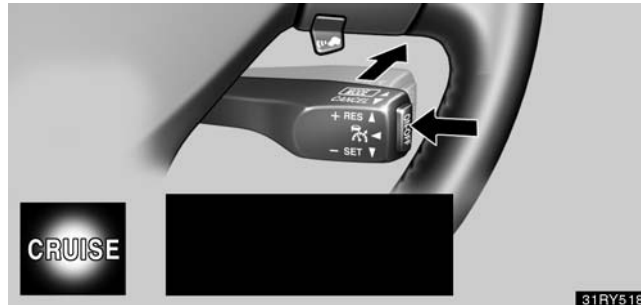
- In the conventional cruise control mode, the approach warning does not activate and no alarm will sound even if you are too close to the vehicle ahead, as neither the presence of the vehicle ahead nor the vehicle-to-vehicle distance is detected. Pay special attention to the distance between your vehicle and the vehicle ahead. Always confirm the cruise control mode on the display.

- Do not use the conventional mode in the following conditions, or serious injury or death could result:

To help maintain maximum control of your vehicle, do not use conventional cruise control mode when using dynamic laser cruise control while driving in heavy or varying traffic, or on slippery (rainy, icy or snow-covered) or winding roads.

Avoid vehicle speed increasing when driving downhill. If the vehicle speed is too fast in relation to the preset speed in the conventional cruise control mode, cancel the conventional cruise control mode and then downshift the transmission to use engine braking to slow down.

(a) Turning the system on



To operate the conventional cruise control mode, press the “ON–OFF” button. This turns the system on. The “CRUISE” indicator light in the instrument cluster comes on and “RADAR READY” appears on the multi–information display. Push the lever in the “MODE” direction for longer than 1 second to change to conventional cruise control mode. You can now set your desired cruising speed. Pressing the “ON–OFF” button again will turn the system completely off.

However, once the vehicle–to–vehicle distance control mode activates and is used, the system cannot be changed to the conventional cruise control mode using the above operation. To change the mode, you must turn this system off and then on again. Next push the lever in the “MODE” direction for longer than about 1 second.

To change to the vehicle–to–vehicle distance control mode from the conventional cruise control mode, push the lever in the “MODE” direction for longer than about 1 second.

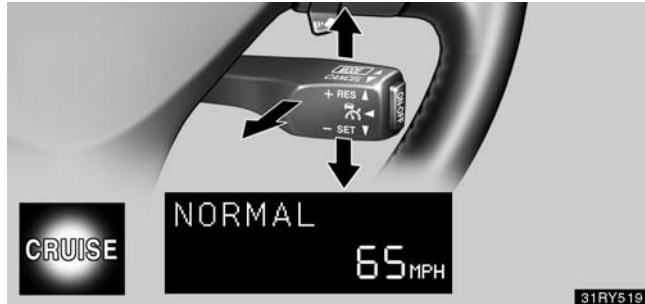


CAUTION

To avoid accidentally engaging the cruise control, keep the “ON–OFF” button off when not using dynamic laser cruise control.

STARTING AND DRIVING

(b) Setting the desired speed



The transmission must be in “D” before you set the cruise control speed in the conventional cruise control mode.

Bring your vehicle to the desired speed, push the lever down in the “– SET” direction and release it. This sets the vehicle at that speed and the display shows the preset speed. You can now take your foot off the accelerator pedal.

If you need to accelerate — for example, when passing — depress the accelerator pedal enough for the vehicle to exceed the preset speed. When you release the accelerator pedal, the vehicle will return to the speed set prior to acceleration.

You cannot set cruise control speed if the master warning light comes on, a warning tone sounds and the warning message “CHECK CRUISE SYSTEM” appears on the multi-information display. If this message appears, see “(g) Conventional cruise control mode failure warning” on page 442.

(c) Cancelling the preset speed

You can cancel the preset speed by doing any of the following:

- Pulling the lever in the “CANCEL” direction.
- Depressing the brake pedal.
- Pressing the “ON-OFF” button.

In the following cases, the preset speed automatically cancels out:

- The vehicle speed falls below about 40km/h (25 mph).
- If the vehicle speed drops 16 km/h (10 mph) below the preset speed, the preset speed will also automatically be cancelled.
- The slip indicator light blinks and an alarm sounds. (This occurs when the vehicle is about to skid.)

If cancelled by a. or b., the preset speed data is cleared and you must set the speed from the beginning.

If the preset speed automatically cancels out for other than the above reasons, do not operate the cruise control. Although it is no problem to continue driving, have your vehicle checked by your Lexus dealer at the earliest opportunity.

(d) Resetting to a faster speed

Push the lever up in the “+ RES” direction and hold it. Release the lever when the desired speed is attained. While the lever is held up, the vehicle will gradually gain speed.

When the difference between the actual vehicle speed and the set speed is less than 5 km/h (3 mph), the set speed can be increased 1.6 km/h (1 mph) each time by pushing the lever up in the “+ RES” direction quickly within 0.6 seconds.

However, a faster way to reset is to accelerate the vehicle and then push the lever down in the “– SET” direction.

(e) Resetting to a slower speed

Push the lever down in the “– SET” direction and hold it. Release the lever when the desired speed is attained. While the lever is held down, the vehicle speed will gradually decrease.

When the difference between the actual vehicle speed and the set speed is less than 5 km/h (3 mph), the set speed can be lowered 1.6 km/h (1 mph) each time by pushing the lever down in the “– SET” direction quickly within 0.6 seconds.

However, a faster way to reset is to accelerate the vehicle and then push the lever down in the “– SET” direction.

With the cruise control on, the vehicle will not decelerate even if you downshift from the “D” position to “B” (engine braking). The cruise control must first be cancelled. To reduce the vehicle speed, you must reset the cruising speed using the control lever or apply the brakes. Applying the brakes cancels the cruise control.

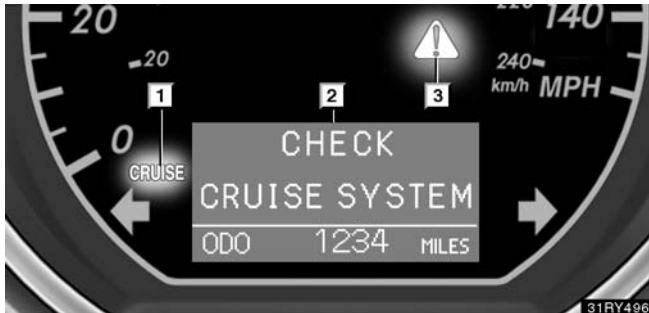
(f) Resuming the preset speed

If the preset speed is cancelled by pulling the lever, by depressing the brake pedal or vehicle stability control activation, pushing the lever up in the “+ RES” direction will restore the speed set prior to cancellation.

However, once the vehicle speed falls below about 40 km/h (25 mph), the preset speed will not be resumed.

STARTING AND DRIVING

(g) Conventional cruise control mode failure warning



- 1 ***“CRUISE” indicator light***
- 2 ***Warning message***
- 3 ***Master warning light***

If a system malfunction is detected when the conventional cruise control mode is on, the “CRUISE” indicator light in the instrument cluster flashes, the master warning light comes on, a warning tone sounds and the warning message “CHECK CRUISE SYSTEM” appears on the display.

If this message appears, turn the system off and then on again. If the setting still cannot be made or the same message appears again, the system might have malfunctioned. Although there is no problem to continue driving, please contact your Lexus dealer.

REAR VIEW MONITOR SYSTEM

The rear view monitor system assists the driver by displaying an image of the rear of the vehicle while backing up. The displayed image on the screen is a horizontally reversed mirror image of the inside rear view mirror.

To display the rear view image on the screen, place the selector lever in the “R” position when the ignition switch is in the “ON” position.

If you move the selector lever out of the “R” position, the screen returns to the previous screen. Operating another function of the navigation system will display another screen.

The rear view monitor system is a supplemental device intended to assist back up. When backing up, be sure to check behind and all around the vehicle visually.

CAUTION

- Never depend on the rear view monitor system entirely when backing up. Always make sure your intended path is clear.

Use caution just as you would when backing up any vehicle.

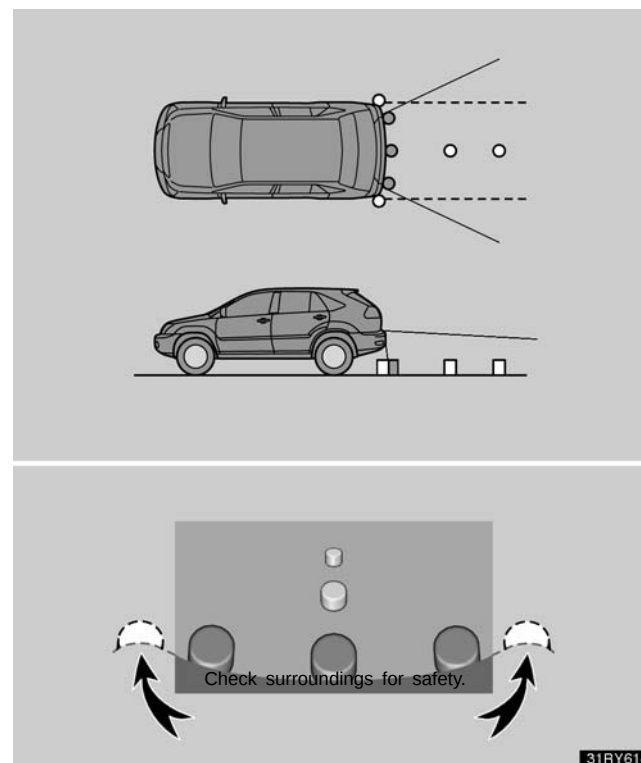
- Never back up while looking only at the screen. The image on the screen is different from actual conditions. Depicted distances between objects and flat surfaces will differ from actual distances. If you back up while looking only at the screen, you may hit a vehicle, a person or an object. When backing up, be sure to check behind and all around the vehicle visually and with mirrors before proceeding.
- Do not use the system when the back door is not completely closed.
- If the back of the vehicle is hit, the position and mounting angle of the camera may change. Be sure to have the camera's position and mounting angle checked at your Lexus dealer.
- If the temperature changes rapidly, such as when hot water is poured on the vehicle in cold weather, the system may not operate normally.

- If the camera lens becomes dirty, it cannot transmit a clear image. If water droplets, snow, or mud adhere to the lens, rinse with water and wipe with a soft cloth. If the lens is extremely dirty, wash it with a mild cleanser and rinse.
- Use your own eyes to confirm the vehicle's surroundings, as the displayed image may become faint or dark, and moving images will be distorted, or not entirely visible when the outside temperature is low. When backing up, be sure to check behind and all around the vehicle visually and with mirror before proceeding.

STARTING AND DRIVING

AREA DISPLAYED ON SCREEN

Image is displayed approximately level on screen.



► *Corners of bumper*

- The area covered by the camera is limited. Objects which are close to either corner of the bumper or under the bumper cannot be seen on the screen.
- The area displayed on the screen may vary according to vehicle orientation or road conditions.

THE REAR VIEW MONITOR SYSTEM CAMERA

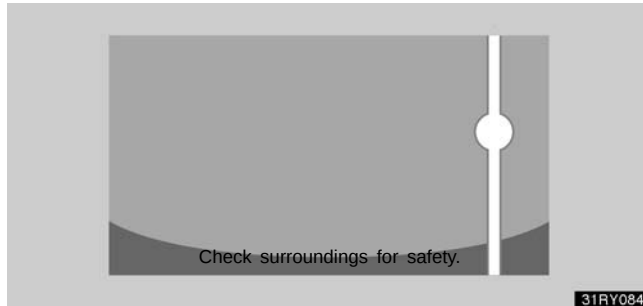


The rear view monitor system camera is located on the back door as shown in the illustration. The camera uses a special lens. The distance of the image that appears on the screen differs from the actual distance.

In the following cases, it may become difficult to see the images on the screen, even when the system is functioning.

- In the dark (for example, at night)
- When the temperature near the lens is extremely high or low
- When water droplets are adhering to the camera, or when humidity is high (for example, when it rains)
- When foreign matter (for example, snow or mud) adheres to the camera lens
- When the sun or the beam of headlights is shining directly into the camera lens

STARTING AND DRIVING



If a bright light (for example, sunlight reflected off the vehicle body) is picked up by the camera, the smear effect* peculiar to the camera may occur.

*: Smear effect — A phenomenon that occurs when a bright light (for example, sunlight reflected off the vehicle body) is picked up by the camera; when transmitted by the camera, the light source appears to have a vertical streak above and below it.

VEHICLE DYNAMICS INTEGRATED MANAGEMENT

Vehicle dynamics integrated management (VDIM) is designed to control vehicle motion continuously using all possible functions to stabilize the motion.

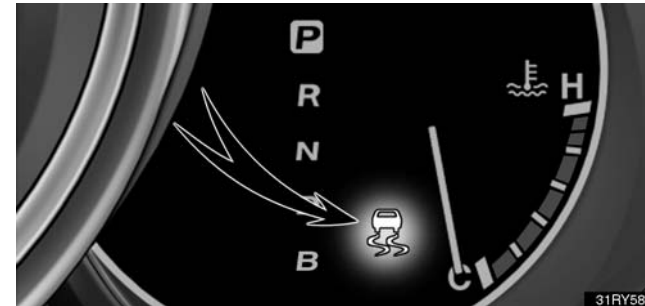
It is important to keep the tires in good condition for the system to properly control vehicle motion. Refer to the information for tires on pages 556 through 578.

The system has the functions listed below. Each function become operative when the vehicle speed exceeds the speed listed below.

- Brake assist function 7 km/h (4 mph)
- Anti-lock brake system function 7 km/h (4 mph)
- Traction control function 0 km/h (0 mph)
- Vehicle stability control function 15 km/h (9 mph)

⚠ CAUTION

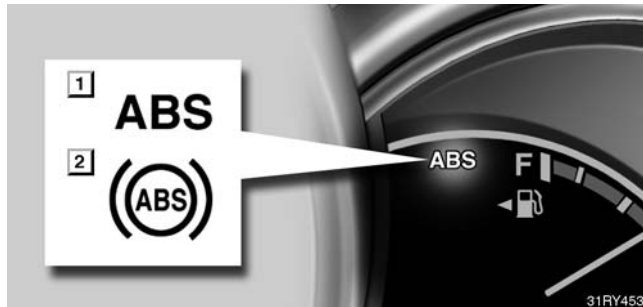
- Do not rely excessively on the VDIM. Even if the system is operating, you must always drive carefully and attentively. Reckless driving will result in an unexpected accident. If the slip indicator flashes, special care should be taken.
- Only use tires of specified size. The size, manufacturer, brand and tread pattern for all 4 tires should be the same. If you use any tires other than specified, or different types or sizes, the VDIM may not function correctly. When replacing the tires or wheels, contact your Lexus dealer.
- Do not modify the suspensions. If you modify the suspensions, the VDIM may not function correctly.
- In situations where the road surface is covered with ice or snow, your vehicle should be fitted with snow tires or tire chains.

**► Slip indicator light**

When the ignition is turned on, the slip indicator light comes on. It will go off when the “READY” light comes on. If the light does not come on when the ignition is turned on, contact your Lexus dealer.

While the VDIM is using its various functions to stabilize vehicle motion, the slip indicator in the instrument cluster flashes and buzzer sounds. Drive carefully when you are in situations where the indicator flashes. You may feel some vibrations from the underbody and you may feel some resistance when turning the steering wheel when the VDIM is using its various functions.

STARTING AND DRIVING



- 1 "ABS" warning light for U.S.A.
- 2 "ABS" warning light for Canada

When the ignition is turned on, the "ABS" warning light comes on. It will go off when the "READY" light comes on. If the warning light does not come on when the ignition is turned on, contact your Lexus dealer.

If the "ABS" warning light remains on after the ignition is turned on or if it comes on while driving, the anti-lock brake system function may not operate properly. Although the brake system operates normally without anti-lock brake system function, drive carefully and have your vehicle checked by a Lexus dealer at the earliest opportunity. See "Service reminder indicators and warning buzzers" on page 86 for details.



- Warning message — "CHECK VSC SYSTEM"

If "CHECK VSC SYSTEM" appears on the multi-information display, the traction control and vehicle stability control functions may not operate properly. Have your vehicle checked by your Lexus dealer immediately. However, in this situation, the brake system operates normally without the traction control function and vehicle stability control function so you must drive carefully if you continue to drive.

Brake assist function

The brake assist function is designed to assist with emergency braking. When the driver suddenly depresses the brake pedal, the device treats it as emergency braking and adds braking force.

If you slam the brakes on or apply the brakes more firmly, more powerful braking will be applied. At this time, you may hear a sound in the engine compartment and feel the vibrations of the brake pedal. This does not indicate a malfunction.



CAUTION

The brake assist function is not designed to shorten braking distance. Always drive at a moderate speed and maintain a safe distance from the vehicle in front of you. Depending on road conditions, braking distance may be longer than that of a vehicle without the brake assist device. If tire chains are used, braking distance may become longer.

Anti-lock brake system function

The anti-lock brake system function is designed to help prevent lock-up of the wheels during sudden braking or when braking on slippery road conditions. This assists in providing directional stability and steering performance of the vehicle under these circumstances.

Effective way to press the ABS brake pedal: When the anti-lock brake system function is in action, you may feel the brake pedal pulsating and hear a noise. In this situation, to let the anti-lock brake system work for you, just hold the brake pedal down more firmly. Do not pump the brake in a panic stop. This will result in reduced braking performance.

Depressing the brake pedal on slippery road surfaces such as on a manhole cover, a steel plate at a construction site, joints in a bridge, etc. on a rainy day tends to activate the anti-lock brake system function.

You may hear a click or motor sound in the engine compartment for a few seconds just after the vehicle begins to move. This means that the anti-lock brake system function is in the self-check mode, and does not indicate a malfunction.

STARTING AND DRIVING

When the anti-lock brake system function is activated, the following conditions may occur. They do not indicate a malfunction of the function:

- You may hear the anti-lock brake system function operating and feel the brake pedal pulsating and the vibrations of the vehicle body and steering wheel. You may also hear the motor sound in the engine compartment even after the vehicle is stopped.
- At the end of the activation, the brake pedal may move a little forward.



CAUTION

The anti-lock brake system function is not designed to shorten braking distance. Always drive at a moderate speed and maintain a safe distance from the vehicle in front of you. Depending on road conditions, braking distance may be longer than that of a vehicle without the anti-lock brake device. If tire chains are used, braking distance may become longer.

Compared with vehicles without an anti-lock brake device, your vehicle may require a longer stopping distance in the following cases:

- Driving on rough, gravel or snow-covered roads.
- Driving with tire chains installed.
- Driving over the steps such as the joints on the road.
- Driving on roads where the road surface is pitted or has other differences in surface height.

If tire grip performance exceeds its capability, or if hydroplaning occurs during high speed driving in the rain, the anti-lock brake system does not provide vehicle control.

Traction control function

The traction control function is designed to help prevent skid of the drive wheels during sudden acceleration on slippery road surfaces.

You may feel vibration or noise in your vehicle, caused by operation of the brakes.



CAUTION

Under certain slippery road conditions, full traction of the vehicle and power against drive wheels cannot be maintained, even though the traction control system is in operation. Do not drive the vehicle under any speed or maneuvering conditions which may cause the vehicle to lose traction control. In situations where the road surface is covered with ice or snow, your vehicle should be fitted with snow tires or tire chains. Always drive at a moderate speed.

Vehicle stability control function

The vehicle stability control function is designed to help prevent skid of the wheels while cornering on slippery road surfaces or when turning the steering wheel abruptly.

The system controls the driving and braking forces on each tire and also controls the power steering assistance to help the driver to recover vehicle stability.



CAUTION

Depending on the road conditions, the vehicle stability control function may not be able to stabilize your vehicle. Always drive at a moderate speed.

STARTING AND DRIVING

BRAKE SYSTEM

Regenerative brake

When the brake is applied, the motor generator converts kinetic energy into electric energy.

The regenerative brake works in the following operations.

1. When the accelerator pedal is released, the reduced speed equal to engine braking in a gasoline-fueled vehicle is obtained in accordance with the running mode position of the selector lever.
2. When the brake pedal is depressed with the selector lever in "D" or "B", the regenerative brake works.

Hydraulic brake

This brake system has 3 independent hydraulic circuits. If any circuit should fail, the other will still work. However, the pedal will be harder to press, and your stopping distance will increase. Also, the brake system warning light may come on.



CAUTION

Do not drive your vehicle with only a single brake system. Have your brakes fixed immediately.

Brake actuator

The brake actuator uses brake fluid pressurized by the pump to power-assist the brakes. If the brake actuator fails during driving, the brake system warning light comes on and the buzzer sounds continuously. In this case, the brakes may not work properly. If they do not work well, depress the brake pedal firmly. If the brake system warning light comes on, immediately stop your vehicle and contact your Lexus dealer.

The red and yellow brake system warning lights may stay on for about 60 seconds after the ignition is turned on. It is normal if the light turns off after a while.

Depressing the brake pedal repeatedly may turn on the red brake system warning light and buzzer. It is normal if the light turns off and the buzzer stops sounding after a few seconds.

You may hear a small sound in the engine compartment after the hybrid system is started or the brake pedal is depressed repeatedly. This is a pump pulsating sound of the brake system, and it is not a malfunction.

In the following conditions, you may hear a sound in the engine compartment.

- The brake pedal is depressed when the hybrid system is turned off.
- The driver's door is opened.
- For a few seconds after the hybrid system is off and about 90 seconds have passed.

The brake pedal stroke may be short when you turn the ignition on with the brake pedal depressed.

⚠ CAUTION

- Do not pump the brake pedal if the hybrid system is not operating. Each push on the pedal uses up your reserved brake fluid pressure.
- Even if the power assist is completely lost, the brakes will still work. But you will have to push the pedal hard, much harder than normal. And your braking distance will increase.

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 drums are replaced.

Have your Lexus dealer perform the bedding-down.

BRAKE PAD WEAR LIMIT INDICATORS

The brake pad wear limit indicators on your disc brakes give a warning noise when the brake pads are worn to the extent that replacement is required.

If you hear a squealing or scraping noise while driving, have the brake pads checked and replaced by your Lexus dealer as soon as possible. Expensive rotor damage can result if the pads are not replaced when needed.

SECTION 3 – 2

STARTING AND DRIVING

Driving tips

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DRIVING TIPS

UTILITY VEHICLE PRECAUTIONS



This vehicle belongs to the utility vehicle class, which has higher ground clearance and narrower tread in relation to the height of its center of gravity. Specific design characteristics give it a higher center of gravity than ordinary passenger cars. This vehicle design feature causes this type of vehicle to be more likely to rollover. And, utility vehicles have a significantly higher rollover rate than other types of vehicles. It is not designed for cornering at the same speeds as ordinary passenger cars any more than low-slung sports cars designed to perform satisfactorily under off-road conditions. Therefore, sharp turns at excessive speeds may cause rollover.

CAUTION

Always observe the following precautions to minimize the risk of serious personal injury or damage to your vehicle:

- In a rollover crash, an unbelted person is significantly more likely to die than a person wearing a seat belt. Therefore, the driver and all passengers should fasten their seat belts whenever the vehicle is moving.
- Avoid sharp turns or abrupt maneuvers, if at all possible. Failure to operate this vehicle correctly may result in loss of control or vehicle rollover causing death or serious injury.
- Loading cargo on the roof luggage carrier will make the center of the vehicle gravity higher. Avoid high speeds, sudden starts, sharp turns, sudden braking or abrupt maneuvers, otherwise it may result in loss of control or vehicle rollover due to failure to operate this vehicle correctly.
- Always slow down in gusty crosswinds. Because of its profile and higher center of gravity, your vehicle is more sensitive to side winds than an ordinary passenger car. Slowing down will allow you to have better control.

- When off-road driving cannot be avoided, do not drive at excessive speeds, jump, make sharp turns, or strike objects, etc. These maneuvers may result in loss of control or vehicle rollover causing death or serious injury. You also risk expensive damage to your vehicle's suspension and chassis.
- Do not drive horizontally across steep slopes. Driving straight up or straight down is preferred. Your vehicle (or any similar off-road vehicle) can tip over sideways much more easily than forward or backward.

BREAK-IN PERIOD

Drive gently and avoid high speeds.

You need not follow a break-in schedule with your new Lexus. But following a few simple tips for the first 1600 km (1000 miles) can add to the future economy and long life of your vehicle:

- Avoid full throttle acceleration when starting and driving.
- Avoid racing the hybrid system.
- Try to avoid hard stops during the first 300 km (200 miles).
- Do not tow a trailer during the first 800 km (500 miles).

DRIVING TIPS

OPERATION IN FOREIGN COUNTRIES

If you plan to drive your Lexus in another country...

First, comply with the vehicle registration laws.

Second, confirm the availability of the correct fuel (unleaded and minimum octane rating).

TIPS FOR DRIVING IN VARIOUS CONDITIONS

- Always slow down in gusty crosswinds. This will allow you much better control.
- Drive slowly onto curbs and, if possible, at a right angle. Avoid driving onto high, sharp-edged objects and other road hazards. Failure to do so can lead to severe tire damage such as a tire burst.

Drive slowly when passing over bumps or travelling on a bumpy road. Otherwise, the impact could cause severe damage to the tires and/or wheels.

- When parking on a hill, turn the front wheels until they touch the curb so that the vehicle will not roll. Apply the parking brake, and place the transmission in "P". If necessary, block the wheels.
- Washing your vehicle or driving through deep water may get the brakes wet. To see whether they are wet, check that there is no traffic near you and then press the pedal lightly. If you do not feel a normal braking force, the brakes are probably wet. To dry them, drive the vehicle cautiously while lightly pressing the brake pedal with the parking brake applied. If they still do not work safely, pull to the side of the road and call a Lexus dealer for assistance.

 CAUTION

- Before driving off, make sure the parking brake is fully released and that the parking brake reminder light is off.
- Do not leave your vehicle unattended while the hybrid system is on.
- Do not rest your foot on the brake pedal while driving. It can cause dangerous overheating, needless wear, and poor fuel economy.
- To drive down a long or steep hill, reduce your speed and downshift. Remember, if you ride the brakes excessively, they may overheat and not work properly. See page 414.
- Be careful when accelerating or braking on a slippery surface. Sudden acceleration or engine braking could cause the vehicle to skid or spin.

- Do not drive in excess of the speed limit. Even if the legal speed limit permits it, do not drive over 140 km/h (85 mph) unless your vehicle has high-speed capability tires. Driving over 140 km/h (85 mph) 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.
- Do not continue normal driving when the brakes are wet. If they are wet, your vehicle will require a longer stopping distance, and it may pull to one side when the brakes are applied. Also, the parking brake will not hold the vehicle securely.

DRIVING TIPS

OFF-ROAD DRIVING PRECAUTIONS

Your vehicle is not designed to be driven off-road.

However, in the event that off-road driving cannot be avoided, please observe the following precautions to help avoid the areas prohibited to vehicles.

- a. Drive your vehicle only in areas where off-road vehicles are permitted to travel.
- b. Respect private property. Get owner's permission before entering private property.
- c. Do not enter areas that are closed. Honor gates, barriers and signs that restrict travel.
- d. Stay on established roads. When conditions are wet, driving techniques should be changed or travel delayed to prevent damage to roads.

For owners in U.S. mainland, Hawaii and Puerto Rico:

To obtain additional information pertaining to driving your vehicle off-road, consult the following organizations.

- State and Local Parks and Recreation Departments
- State Motor Vehicle Bureau
- Recreational Vehicle Clubs
- U.S. Forest Service and Bureau of Land Management



CAUTION

Always observe the following precautions to minimize the risk of serious personal injury or damage to your vehicle:

- **Drive carefully when off the road. Do not take unnecessary risks by driving in dangerous places.**
- **Do not grip the steering wheel spokes when driving off-road. A bad bump could jerk the wheel and injure your hands. Keep both hands and especially your thumbs on the outside of the rim.**
- **Always check your brakes for effectiveness immediately after driving in sand, mud, water or snow.**

- After driving through tall grass, mud, rock, sand, rivers, etc., check that there is no grass, bush, paper, rags, stone, sand, etc. adhering or trapped on the underbody. Clear off any such matter from the underbody. If the vehicle is used with these materials trapped or adhering to the underbody, a breakdown or fire could occur.
- In a rollover crash, an unbelted person is significantly more likely to die than a person wearing a seat belt. Therefore, the driver and all passengers should fasten their seat belts whenever the vehicle is moving.
- When off-road driving cannot be avoided, do not drive at excessive speeds, jump, make sharp turns, or strike objects, etc. These maneuvers may result in loss of control or vehicle rollover causing death or serious injury. You also risk expensive damage to your vehicle's suspension and chassis.

NOTICE

- *If driving through water, such as when crossing shallow streams, first check the depth of the water and the bottom of the river bed for firmness. Drive slowly and avoid deep water.*
- *Take all necessary safety measures to ensure that water damage to the traction battery, hybrid system or other components does not occur.*
Water entering the engine compartment may cause severe damage to the hybrid system. Water entering the interior may cause the traction battery stowed under the rear seats to short circuit.
Water can wash the grease from wheel bearings, causing rusting and premature failure, and may also enter the transaxle case, reducing the gear oil's lubricating qualities.
- *Sand and mud that has accumulated in brake drums and around brake discs may affect braking efficiency and may damage brake system components.*
- *Always perform a maintenance inspection after each day of off-road driving that has taken you through rough terrain, sand, mud, or water. For scheduled maintenance information, refer to the "Owner's Manual Supplement / Scheduled Maintenance".*

DRIVING TIPS

WINTER DRIVING TIPS

Make sure your coolant is properly protected against freezing.

Only use “Toyota Super Long Life Coolant” or similar high quality ethylene glycol based non-silicate, non-amine, non-nitrite, and non-borate coolant with long-life hybrid organic acid technology. (Coolant with long-life hybrid organic acid technology is a combination of low phosphates and organic acids.)

See “Checking the coolant level” on page 547 for details of coolant type selection.

For the U.S.A. — “Toyota Super Long Life Coolant” is a mixture of 50% coolant and 50% deionized water. This coolant provides protection down to about -35°C (-31°F).

For Canada — “Toyota Super Long Life Coolant” is a mixture of 55% coolant and 45% deionized water. This coolant provides protection down to about -42°C (-44°F).

NOTICE

Do not use plain water alone.

Check the condition of the auxiliary battery and cables.

Cold temperatures lower the performance of the auxiliary battery, so it must be in top shape to provide enough power for winter starting. Page 585 tells you how to visually inspect the auxiliary battery. Your Lexus dealer and most service stations will be pleased to check the charge level.

Make sure the engine oil viscosity is suitable for the cold weather.

See page 545 for recommended viscosity. Leaving a heavy summer oil in your vehicle during winter months may cause harder starting. If you are not sure about which oil to use, call your Lexus dealer — they will be pleased to help.

Keep the door locks from freezing.

Squirt lock de-icer or glycerine into the locks to keep them from freezing.

Use a washer fluid containing an antifreeze solution.

This product is available at your Lexus dealer and most auto parts stores. Follow the manufacturer's directions for how much to mix with water.

NOTICE

Do not use engine antifreeze or any other substitute because it may damage your vehicle's paint.

Do not use your parking brake when there is a possibility it could freeze.

When parking, put the transmission into "P" and block the rear wheels. Do not use the parking brake, or snow or water accumulated in and around the parking brake mechanism may freeze the parking brake, making it hard to release.

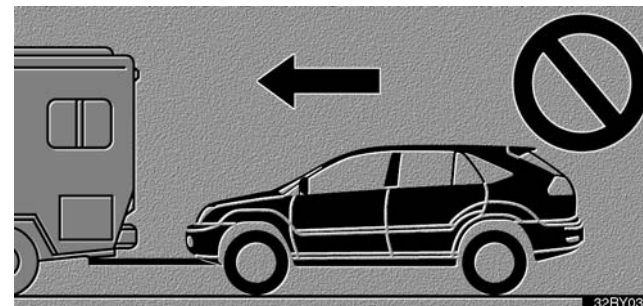
Keep ice and snow from accumulating under the fenders.

Ice and snow built up under your fenders can make steering difficult. During bad winter driving, stop and check under the fenders occasionally.

Depending on where you are driving, we recommend you carry some emergency equipment.

Some of the things you might put in the vehicle are tire chains, window scraper, bag of sand or salt, flares, small shovel, jumper cables, etc.

DINGHY TOWING



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

NOTICE

Do not tow your vehicle with four wheels on the ground. This may cause serious damage to your vehicle.

DRIVING TIPS

TRAILER TOWING

Your vehicle is designed primarily as a passenger-and-load carrying vehicle. Towing a trailer will have an adverse effect on handling, performance, braking, durability and driving economy (fuel consumption, etc.). Your safety and satisfaction depend on the proper use of correct equipment and cautious driving habits. For your safety and the safety of others, you must not overload your vehicle or trailer. Lexus warranties do not apply to damage or malfunction caused by towing a trailer for commercial purposes. Ask your local Lexus dealer for further details before towing.

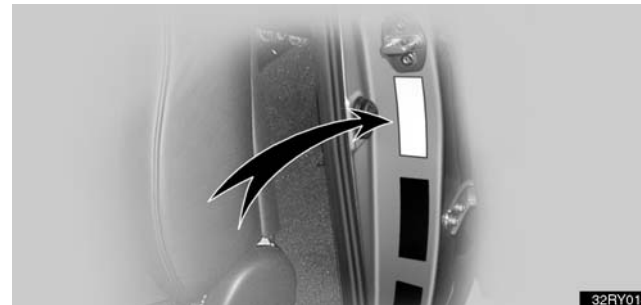
NOTICE

When towing a trailer, be sure to consult your Lexus dealer for further information on additional requirements such as a towing kit, etc.

Weight limits

Before towing, make sure the total trailer weight, gross vehicle weight, gross axle weight and trailer tongue load are all within the limits.

The total trailer weight and tongue load can be measured with platform scales found at a highway weighing station, building supply company, trucking company, junk yard, etc.



► **Certification label**

 CAUTION

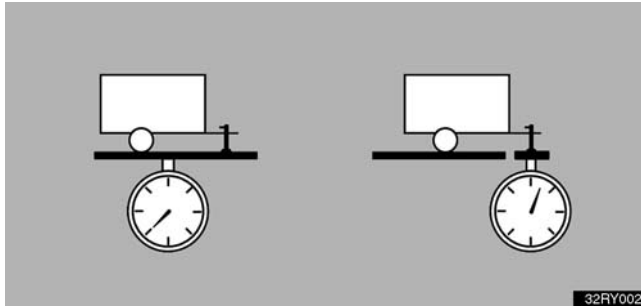
- The total trailer weight (trailer weight plus its cargo load) must not exceed the following. Exceeding this weight is dangerous.

Without towing package	907 kg (2000 lb.)
With towing package	1588 kg (3500 lb.)
- If towing a trailer and cargo weighing over 907 kg (2000 lb.), Lexus recommends to use a sway control device with sufficient capacity. The gross combination weight (sum of your vehicle weight plus its load and the total trailer weight) must not exceed the following.

Without towing package	3411 kg (7520 lb.)
With towing package	4091 kg (9020 lb.)
- Trailer hitch assemblies have different weight capacities established by the hitch manufacturer. Even though the vehicle may be physically capable of towing a higher weight, the operator must determine the maximum weight rating of the particular hitch assembly and never exceed the maximum weight rating specified for the trailer hitch. Exceeding the maximum weight rating set by the trailer hitch manufacturer can cause an accident resulting in serious personal injuries.

- The gross vehicle weight must not exceed the Gross Vehicle Weight Rating (GVWR) indicated on the Certification Label. The gross vehicle weight is the sum weight of the unloaded vehicle, driver, passengers, luggage, hitch and trailer tongue load. It also includes the weight of any special equipment installed on your vehicle.
- The load on either the front or rear axle resulting from distribution of the gross vehicle weight on both axles must not exceed the Gross Axle Weight Rating (GAWR) listed on the Certification Label.

DRIVING TIPS



► **Total trailer weight**

► **Tongue load**

- The trailer cargo load should be distributed so that the tongue load is 9 to 11% of the total trailer weight, not exceeding the maximum of the following.

Without towing package	90 kg (200 lb.)
With towing package	158 kg (350 lb.)

$$\frac{\text{Tongue load}}{\text{Total trailer weight}} \times 100 = 9 \text{ to } 11\%$$
- Never load the trailer with more weight in the back than in the front. About 60% of the trailer load should be in the front half of the trailer and the remaining 40% in the rear.

Tow hitch receiver



The tow hitch receiver is installed under the rear bumper.

CAUTION

A tow hitch receiver is rated for weight carrying towing only up to the following. Only use this tow hitch receiver on your vehicle. Do not use this tow hitch receiver on any other vehicle.

Without towing package	907 kg (2000 lb.)
With towing package	1588 kg (3500 lb.)

Hitches

- If you wish to install a trailer hitch, your Lexus dealer should be consulted.
- Use only a hitch which is recommended by Lexus dealer and conforms to the total trailer weight requirement.
- Follow the directions supplied by the hitch manufacturer. Lubricate the hitch ball with a light coat of grease.
- Lexus recommends removing the trailer hitch whenever you are not towing a trailer to reduce the possibility of additional damage caused by the hitch if your vehicle is struck from behind. After removing the hitch, seal any mounting holes in the vehicle body to prevent entry of pollutants such as exhaust fumes, dirt, water, etc.

NOTICE

- ***Install the trailer hitch using only the position recommended by your Lexus dealer. Do not install the trailer hitch on the bumper; this may cause body damage.***
- ***Do not use axle-mounted hitches as they can cause damage to the axle housing, wheel bearings, wheels or tires.***

Trailer ball

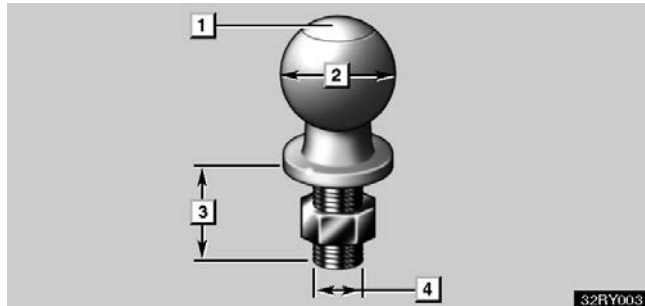
Follow these easy steps to properly determine the correct trailer ball for your application:

1. Determine the correct trailer ball size for the trailer coupler. Most couplers are stamped with the required trailer ball size. The sizes you will most likely find stamped on the coupler are:

<u>Trailer class</u>	<u>Typical Trailer Ball Size</u>
III	2 in.
II	2 in.
I	1 7/8 in.

2. Select the appropriate trailer ball to match or exceed the gross trailer weight rating of the trailer. The trailer ball load rating should be printed on the top of the ball.

DRIVING TIPS



- **1** *Trailer ball load rating*
- 2** *Ball diameter*
- 3** *Shank length*
- 4** *Shank diameter*

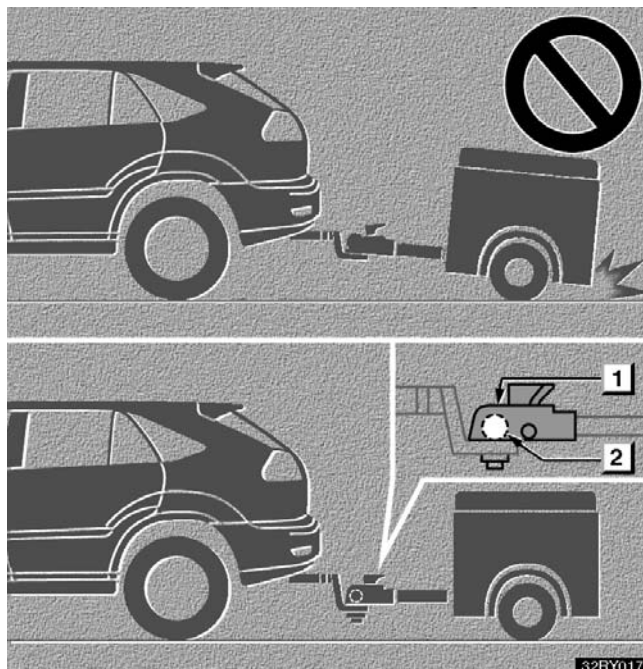
3. When mounted in the ball mount, the threaded ball shank must protrude beyond the bottom of the lock washer and nut at least 2 threads. The trailer ball shank must be matched to the ball mount hole diameter size.

NOTICE

Only use a ball mount attachment specified for the Lexus RX400h.

Matching trailer ball height to trailer coupler height

No matter which class of tow hitch applies, for a safe trailer hookup, the trailer ball setup on must be the proper height for the coupler on the trailer.



► **1** Coupler **2** Trailer ball

Brakes and safety chains

- Lexus recommends trailers with brakes that conform to any applicable federal and state/provincial regulations.
- A safety chain must always be used between the towing vehicle and the trailer. Leave sufficient slack in the chain for turns. The chain should cross under the trailer tongue to prevent the tongue from dropping to the ground in case it becomes damaged or separated. For correct safety chain procedures, follow the hitch or trailer manufacturer's recommendations.

CAUTION

- If the total trailer weight exceeds 450 kg (1000 lb.), trailer brakes are required.
- Never tap into your vehicle's hydraulic system as it will lower its braking effectiveness.
- Never tow a trailer without using a safety chain securely attached to both the trailer and the vehicle. If damage occurs to the coupling unit or hitch ball, there is possible danger of the trailer wandering over into another lane.

DRIVING TIPS

Tires

- Ensure that your vehicle's tires are properly inflated. Adjust the tire pressure to the recommended cold tire pressure indicated below:

Tire pressure, kPa (kgf/cm² or bar, psi)

225/65R17 101S

Front 220 (2.2, 32)

Rear 220 (2.2, 32)

Spare 220 (2.2, 32)

P235/55R18 99V

Front 210 (2.1, 30)

Rear 210 (2.1, 30)

Spare 210 (2.1, 30)

- The trailer tires should be inflated to the pressure recommended by the trailer manufacturer in respect to the total trailer weight.

Trailer lights



► Socket for trailer lights

Your vehicle is equipped with a wire harness stored in the rear end underbody. Models with tow hitch receiver are fitted with a socket for trailer lights under the rear bumper. Use either of them to connect and operate the trailer lights. However, the trailer lights must comply with federal, state/provincial and local regulations. See your local recreational vehicle dealer or rental agency for the correct type of wiring and relays for your trailer. Check for correct operation of the turn signals and stop lights each time you hitch up. Direct splicing may damage your vehicle's electrical system and cause a malfunction of your lights.

Break-in schedule

- Lexus recommends that you do not tow a trailer with a new vehicle or a vehicle with any new power train component (gasoline engine, traction motors, transmission, wheel bearing, etc.) for the first 800 km (500 miles) of driving.

Maintenance

- If you tow a trailer, your vehicle will require more frequent maintenance due to the additional load. For this information, please refer to the scheduled maintenance information in the “Owner’s Manual Supplement / Scheduled Maintenance”.
- Retighten all fixing bolts of the towing ball and bracket after approximately 1000 km (600 miles) of trailer driving.

Pre-towing safety check

- Check that your vehicle remains level when a loaded or unloaded trailer is hitched. Do not drive if the vehicle has an abnormal nose-up or nose-down condition, and check for improper tongue load, overload, worn suspension or other possible causes.
- Make sure the trailer cargo is securely loaded so that it cannot shift.
- Check that your rear view mirrors conform to any federal, state/provincial or local regulations. If they do not, install required rear view mirrors appropriate for towing purposes.

Trailer towing tips

When towing a trailer, your vehicle will handle differently than when not towing. The three main causes of vehicle-trailer accidents are driver error, excessive speed and improper trailer loading. Keep these in mind when towing:

- Before starting out, check the operation of the lights and all vehicle-trailer connections. After driving a short distance, stop and recheck the lights and connections. Practice turning, stopping and backing with a trailer in an area away from traffic until you learn the feel.
- Backing with a trailer is difficult and requires practice. Grip the bottom of the steering wheel and move your hand to the left to move the trailer to the left. Move your hand to the right to move the trailer to the right. (This procedure is generally opposite to that when backing without a trailer.) Also, just turn the steering wheel a little at a time, avoiding sharp or prolonged turning. Have someone guide you when backing to reduce the risk of an accident.
- Because stopping distance may be increased, vehicle-to-vehicle distance should be increased when towing a trailer. For each 16 km/h (10 mph) of speed, allow at least one vehicle and trailer length between you and the vehicle ahead. Avoid sudden braking as you may skid, resulting in jackknifing and loss of control. This is especially true on wet or slippery surfaces.

DRIVING TIPS

- Avoid jerky starts or sudden acceleration.
- Avoid jerky steering and sharp turns. The trailer could hit your vehicle in a tight turn. Slow down before making a turn to avoid the need of sudden braking.
- Remember that when making a turn, the trailer wheels will be closer than the vehicle wheels to the inside of the turn. Therefore, compensate for this by making a larger than normal turning radius with your vehicle.
- Crosswinds and rough roads will adversely affect handling of your vehicle and trailer, causing sway. Pay attention to the rear from time to time to prepare yourself for being passed by large trucks or buses, which may cause your vehicle and trailer to sway. If swaying happens, firmly grip the steering wheel and reduce speed immediately but gradually. Never increase speed. If it is necessary to reduce speed, brake slowly. Steer straight ahead. If you make no extreme correction with the steering or brakes, your vehicle and trailer will stabilize.
- Be careful when passing other vehicles. Passing requires considerable distance. After passing a vehicle, do not forget the length of your trailer and be sure you have plenty of room before changing lanes.
- Because of the added load of the trailer, your vehicle's engine may overheat on hot days (at temperatures over 30°C [85°F]) when going up a long or steep grade with a trailer. If the engine coolant temperature gauge indicates overheating, immediately turn off the air conditioning (if in use), pull your vehicle off the road and stop in a safe spot. See "If your vehicle overheats" on page 484 of this manual.

- Always place wheel blocks under both the vehicle and trailer wheels when parking. Apply the parking brake firmly. Put the transmission in "P". Avoid parking on a slope with a trailer, but if it cannot be avoided, do so only after performing the following:

1. Apply the brakes and keep them applied.
2. Have someone place wheel blocks under both the vehicle and trailer wheels.
3. When the wheel blocks are in place, release your brakes slowly until the blocks absorb the load.
4. Apply the parking brake firmly.
5. Shift into "P" and turn off the hybrid system.

When restarting out after parking on a slope:

1. With the transmission in the "P" position, start the hybrid system. Be sure to keep the brake pedal depressed.
2. Shift into the "D" or "R" position.
3. Release the parking brake and brake pedal and slowly pull or back away from the wheel blocks. Stop and apply your brakes.
4. Have someone retrieve the blocks.

 CAUTION

- Do not exceed 72 km/h (45 mph) or the posted towing speed limit, whichever is lower. Because instability (swaying) of a towing vehicle-trailer combination usually increases as the speed increases, exceeding 72 km/h (45 mph) may cause loss of control.
- Slow down and downshift before descending steep or long downhill grades. Do not make sudden downshifts.
- Avoid holding the brake pedal down too long or too frequently. This could cause the brakes to overheat and result in reduced braking efficiency.

HOW TO SAVE FUEL AND MAKE YOUR VEHICLE LAST LONGER

Improving fuel economy is easy — just take it easy. It will help make your vehicle last longer, too. Here are some specific tips on how to save money on both fuel and repairs:

- **Keep your tires inflated at the correct pressure.** Check the pressure every two weeks, or at least once a month. Underinflation causes tire wear and wastes fuel.
- **Do not carry unnecessary weight in your vehicle.** Excess weight puts a heavier load on the hybrid system, causing greater fuel consumption.
- **Accelerate slowly and smoothly.** Avoid jackrabbit starts.
- **Avoid continuous changes of speed.** Stop-and-go driving wastes electric power and fuel.
- **Avoid unnecessary stopping and braking.** Maintain a steady pace. Try to time the traffic signals so you only need to stop as little as possible or take advantage of through streets to avoid traffic lights. Keep a proper distance from other vehicles to avoid sudden braking. This will also reduce wear on your brakes.
- **When parking, be sure to put the transmission into the “P” position.** In the “N” position, the gasoline engine operates but electricity cannot be generated. The traction battery will be discharged requiring unnecessary engine power to recharge.

DRIVING TIPS

- **Avoid heavy traffic or traffic jams whenever possible.**
- **Do not rest your foot on the brake pedal.** This causes premature wear, overheating and poor fuel economy.
- **Maintain a moderate speed on highways.** The faster you drive, the greater the fuel consumption. By reducing your speed, you will cut down on fuel consumption.
- **Keep the front wheels in proper alignment.** Avoid hitting curbs and slow down on rough roads. Improper alignment not only causes faster tire wear but also puts an extra load on the hybrid system, which, in turn, wastes fuel.
- **Keep the bottom of your vehicle free from mud, etc.** This not only lessens weight but also helps prevent corrosion.
- **Keep your vehicle tuned-up and in top shape.** A dirty air cleaner, improper valve clearance, dirty plugs, dirty oil and grease, brakes not adjusted, etc. all lower engine performance and contribute to poor fuel economy. For longer life of all parts and lower operating costs, keep all maintenance work on schedule, and if you often drive under severe conditions, see that your vehicle receives more frequent maintenance. (For scheduled maintenance information, please refer to the "Owner's Manual Supplement / Scheduled Maintenance".)



CAUTION

Never turn off the hybrid system to coast down hills. Your power steering and brake system do not function when the hybrid system is off. In addition, the emission control system operates properly only when the hybrid system is on.

VEHICLE LOAD LIMITS

Vehicle load limits include total load capacity, seating capacity, towing capacity and cargo capacity. Follow the load limits shown below. Total load capacity and seating capacity are also described on the tire and loading information label. For location of the tire and loading information label, see “Checking tire inflation pressure” on page 556.

Total load capacity: 420 kg (925 lb.)

Total load capacity means combined weight of occupants, cargo and luggage. Tongue load is included when trailer towing.

Seating capacity: Total 5 (Front 2, Rear 3)

Seating capacity means the maximum number of occupants whose estimated average weight is 68 kg (150 lb.) per person. Depending on the weight of each person, the seating capacity given may exceed the total load capacity.

NOTICE

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

Towing capacity:

Without towing package	907 kg (2000 lb.)
With towing package	1588 kg (3500 lb.)

Towing capacity means the maximum gross trailer weight (trailer weight plus its cargo weight) that your vehicle is able to tow.

Cargo capacity

Cargo capacity may increase or decrease depending on the size (weight) and the number of occupants. For details, see “Capacity and distribution” that follows.



CAUTION

Do not apply the load more than each load limit. That may cause not only damage to the tires, but also deterioration to the steering ability and braking ability, which may cause an accident.

DRIVING TIPS

CARGO AND LUGGAGE

Stowage precautions

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

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



CAUTION

- To prevent cargo and luggage from sliding forward during braking, do not stack anything in the luggage compartment higher than the seatbacks. Keep cargo and luggage low, as close to the floor as possible.

- Never allow anyone to ride in the luggage compartment. It is not designed for passengers. They should ride in their seats with their seat belts properly fastened. Otherwise, they are much more likely to suffer serious bodily injury, in the event of sudden braking or a collision.
- Do not place anything on the luggage cover. Such items may be thrown about and possibly injure people in the vehicle during sudden braking or an accident.
- Do not drive with objects left on top of the instrument panel. They may interfere with the driver's field of view. Or they may move during sharp vehicle acceleration or turning, and impair the driver's control of the vehicle. In an accident they may injure the vehicle occupants.

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

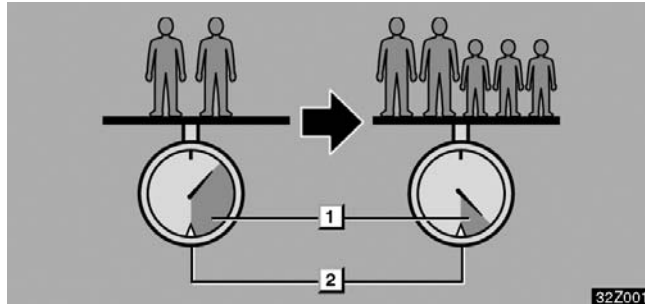
1. Locate the statement “The combined weight of occupants and cargo should never exceed XXX pounds” on your vehicle’s placard.
2. Determine the combined weight of the driver and passengers that will be riding in your vehicle.
3. Subtract the combined weight of the driver and passengers from XXX kilograms or XXX pounds.
4. The resulting figure equals the available amount of cargo and luggage load capacity. For example, if the “XXX” amount equals 1400 lbs. and there will be five 150 lb. passengers in your vehicle, the amount of available cargo and luggage load capacity is 650 lbs. $1400 - 750 (5 \times 150) = 650$ lbs.
5. Determine the combined weight of luggage and cargo being loaded on the vehicle. That weight may not safely exceed the available cargo and luggage load capacity calculated in Step 4.

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

For details about trailer towing, see page 464.

DRIVING TIPS

Example on your vehicle



- **1** *Cargo capacity*
- 2** *Total load capacity*

In case that 2 people with the combined weight of 166 kg (366 lb.) are riding in your vehicle with the total load capacity of 420 kg (925 lb.), the available amount of cargo and luggage load capacity will be as follows:

$$\begin{aligned} 420 \text{ kg} - 166 \text{ kg} &= 254 \text{ kg.} \\ (925 \text{ lb.} - 366 \text{ lb.}) &= 559 \text{ lb.} \end{aligned}$$

From this condition, if 3 more passengers with the combined weight of 176 kg (388 lb.) get on, the available cargo and luggage load will be reduced as follows:

$$\begin{aligned} 254 \text{ kg} - 176 \text{ kg} &= 78 \text{ kg.} \\ (559 \text{ lb.} - 388 \text{ lb.}) &= 171 \text{ lb.} \end{aligned}$$

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

For details about total load capacity, see "Vehicle load limits" on page 475.

CAUTION

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. That may cause not only damage to the tire but also deterioration to the steering ability due to unbalance of the vehicle, causing an accident.

SECTION 4

IN CASE OF AN EMERGENCY

In case of an emergency

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If you cannot shift transmission selector lever	508
If you lose your keys or lock yourself out	509

IN CASE OF AN EMERGENCY

IF YOUR HYBRID SYSTEM STALLS WHILE DRIVING

If your hybrid system stalls while driving...

1. Reduce your speed gradually, keeping a straight line. Move cautiously off the road to a safe place.
2. Turn on your emergency flashers.
3. Turn the ignition key to "ACC" or "LOCK", and try starting the hybrid system again.

If the hybrid system will not start, see "If your vehicle will not start".



CAUTION

If the hybrid system is not operating, the power assist for the brakes and steering will not work, so steering and braking will be much more difficult than usual.

IF YOUR VEHICLE WILL NOT START

(a) Simple checks

Before making these checks, make sure you have sufficient fuel and that you have followed the correct starting procedure as explained in "How to start the hybrid system" on page 410. Since your vehicle is equipped with the engine immobilizer system, also check whether the other keys will start the hybrid system. If they work, your key may be broken. Have the key checked at your Lexus dealer. If none of your keys work, there may be a malfunction in the immobilizer system. Call your Lexus dealer. See "Keys" on page 26.

If the instrument cluster dims or the instrument cluster display turns off with the hybrid system on...

1. Check that the auxiliary battery terminals are tight and clean.
2. If the auxiliary battery terminals are O.K., the auxiliary battery is discharged. You may try jump starting. See "(b) Jump starting" for further instructions.

NOTICE

Hybrid vehicles cannot be push-started.

If the instrument cluster displays with normal brightness with the ignition on...

The hybrid vehicle system may be faulty. Contact your Lexus dealer.

IN CASE OF AN EMERGENCY

(b) Jump starting

If the auxiliary battery is discharged, the hybrid system can be started by jump starting. Depending on the vehicle condition, however the engine may not start.

Before jump starting, remove the engine compartment cover. (See "Removing the engine compartment covers" on page 524.)

To avoid serious injury and damage to your vehicle which might result from an explosion of the auxiliary battery, acid burns, electrical burns, or damaged electronic components, follow instructions carefully.

If you are unsure about how to follow this procedure, we strongly recommend that you seek help from your Lexus dealer, Roadside Assistance or Customer Service Assistance. (See "Foreword".)

CAUTION

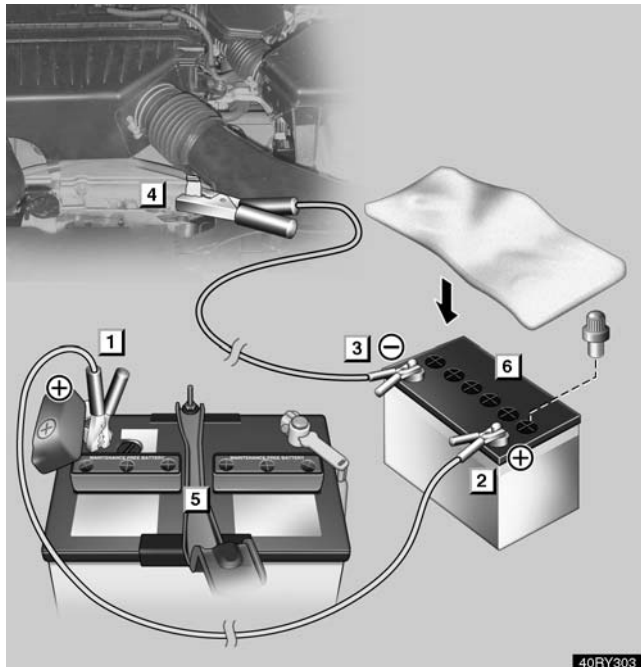
- Batteries contain sulfuric acid which is poisonous and corrosive. Wear protective safety glasses when jump starting, and avoid spilling acid on your skin, clothing, or vehicle.

- If you should accidentally get acid on yourself or in your eyes, remove any contaminated clothing and flush the affected area with water immediately. Then get immediate medical attention. If possible, continue to apply water with a sponge or cloth while en route to the medical office.
- The gas normally produced by a battery will explode if a flame or spark is brought near. Use only standardized jumper cables and do not smoke or light a match while jump starting.

NOTICE

The battery used for boosting must be 12 V. Do not jump start unless you are sure that the booster battery is correct.

IN CASE OF AN EMERGENCY



- **5** Discharged auxiliary battery
6 Booster battery

JUMP STARTING PROCEDURE

1. If the booster battery is installed in another vehicle, make sure the vehicles are not touching. Turn off all unnecessary lights and accessories.

When boosting, use the battery of matching or higher quality. Any other battery may be difficult to jump start with.

If jump starting is difficult, charge the auxiliary battery for several minutes.

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

If the booster battery is an extended maintenance interval battery, it is not necessary to remove the vent plugs.

3. If the engine in the vehicle with the booster battery is not running, start it and let it run for about 5 minutes. During jump starting, run the engine at about 2000 rpm with the accelerator pedal lightly depressed.

4. Locate positive (+) and negative (-) terminals of each battery. Connect the jumper cables in the exact order (**1** **2** **3** **4**) shown in the illustration.

- 1** Connect a positive (red) jumper cable clamp to the positive (+) terminal of the discharged auxiliary battery.
- 2** Connect the clamp at the other end of the positive (red) cable to the positive (+) terminal of the booster battery.
- 3** Connect a negative (black) cable clamp to the negative (-) terminal of the booster battery.

IN CASE OF AN EMERGENCY

- 4 Connect the clamp at the other end of the negative (black) cable to a solid, stationary, unpainted metallic point away from the auxiliary battery (such as shown in the illustration). Do not connect it to or near any part that may move when the hybrid system is started.

CAUTION

When making the connections, to avoid serious injury, do not lean over the battery or accidentally let the jumper cables or clamps touch anything except the correct battery terminals or the ground.

5. Start the hybrid system. Make sure the "READY" light is on. If the traction battery warning light comes on, the traction battery is also discharged. In this condition, the hybrid system will not start. Contact your Lexus dealer.
6. Carefully disconnect the cables in the exact reverse order: the negative cable and then the positive cable.
7. Carefully dispose of the battery cover cloths which may now contain sulfuric acid.
8. If removed, replace all the battery vent plugs.

If the cause of the auxiliary battery discharging is not apparent (for example, lights left on), have the battery checked by your Lexus dealer.

If the first start attempt is not successful...

Check that the clamp on the jumper cables are tight. Recharge the discharged battery with the jumper cables connected for several minutes and restart the hybrid system in the normal way.

If repeated attempts are not successful, the battery may be depleted. Have it checked by your Lexus dealer.

IN CASE OF AN EMERGENCY

IF YOUR VEHICLE OVERHEATS

Your vehicle may have overheated if:

- Engine coolant temperature gauge indicates overheating.
- The warning message “WATER TEMP” appears in the multi-information display.
- A power loss is experienced.
- A loud knocking or pinging noise is heard.

When the hybrid vehicle overheats

Pull safely off the road, stop the vehicle and turn on your emergency flashers. Put the transmission in “P” and apply the parking brake.

A: If steam is coming from your engine compartment:

Turn off the hybrid system. Leave the hood closed until there is no sign of steam or coolant. Your engine may have been seriously damaged already. Call your Lexus dealer for assistance.



CAUTION

To help avoid personal injury, keep the hood closed until there is no steam. Escaping steam or coolant is sign of very high pressure.

B: If no steam is coming from your engine compartment:

Leave the hybrid system on and turn off the air conditioning. Check the following.

- Is the cooling fan operating?
- Is the coolant in the acceptable range?



CAUTION

- When the hybrid system is on, keep hands and clothing away from the moving fan.
- Do not attempt to remove the radiator cap when the hybrid system and radiator are hot. Serious injury could result from scalding hot fluid and steam blown out under pressure.

If the cooling fan is not operating or the coolant is not in the acceptable range, turn off the hybrid system and call your Lexus dealer.

If both conditions are O.K., after the engine coolant temperature gauge has indicated normal range or “WATER TEMP” has disappeared, continue driving your vehicle.

If the engine coolant temperature does not cool down, “WATER TEMP” disappears, or your vehicle overheats again, have it checked as soon as possible by your Lexus dealer.

IF YOU HAVE A FLAT TIRE

1. Reduce your speed gradually, keeping a straight line. Move cautiously off the road to a safe place — well away from the traffic. Avoid stopping on the center divider of a highway. Park on a level spot with firm ground.
2. Stop the hybrid system and turn on your emergency flashers.
3. Firmly set the parking brake and put the transmission in “P”.
4. Have everyone get out of the vehicle on the side away from traffic.
5. Read the following instructions thoroughly.



CAUTION

When jacking, be sure to observe the following to reduce the possibility of personal injury:

- Follow jacking instructions.
- Do not put any part of your body under a vehicle supported by a jack. Otherwise, personal injury may occur.
- Do not start the hybrid system while your vehicle is supported by the jack.
- Stop the vehicle on a level firm ground, firmly set the parking brake and put the transmission in “P”. Block the wheel diagonally opposite to the one being changed if necessary.

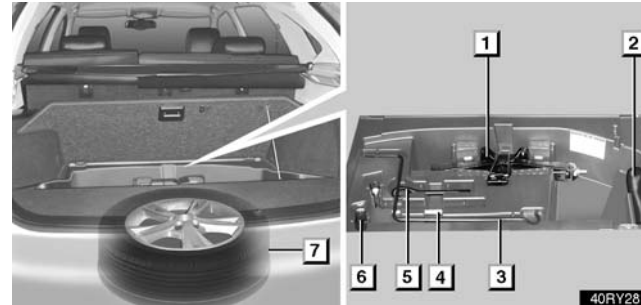
IN CASE OF AN EMERGENCY

- Make sure to set the jack properly in the jack point. Raising the vehicle with jack improperly positioned will damage the vehicle or may allow the vehicle to fall off the jack and cause personal injury.
- Never get under the vehicle when the vehicle is supported by the jack alone.
- Use the jack only for lifting your vehicle during wheel changing.
- Do not raise the vehicle with someone in the vehicle.
- When raising the vehicle, do not place any objects on top of or underneath the jack.
- Raise the vehicle only high enough to remove and change the tire.

NOTICE

Do not continue driving with a deflated tire. Driving even a short distance can damage a tire and wheel beyond repair.

Access to spare tire

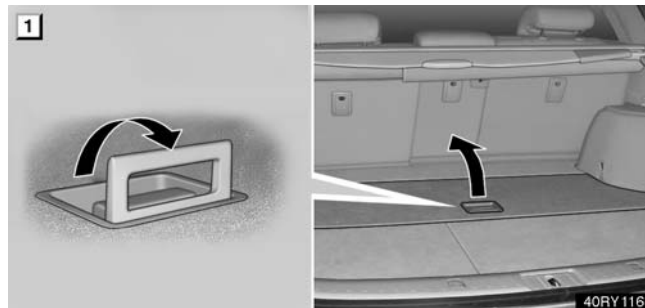


- ▶ 1 Jack
- 2 Tool bag
- 3 Jack handle
- 4 Wrench
- 5 Towing eyelet
- 6 Adapter socket (for removing a spare tire)
- 7 Spare tire

1. Get the tool, jack, wrench, adapter socket (for removing a spare tire) and spare tire.

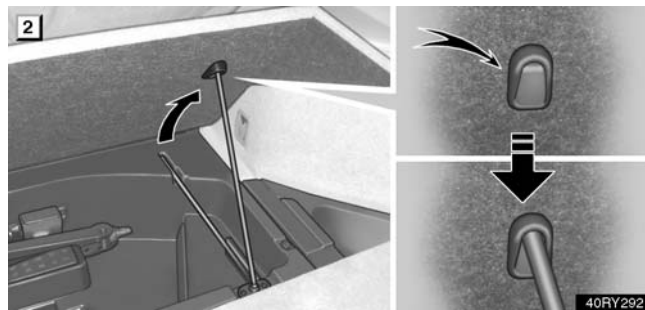
To prepare yourself for an emergency, you should familiarize yourself with the use of the jack and each tool, and their storage locations.

IN CASE OF AN EMERGENCY



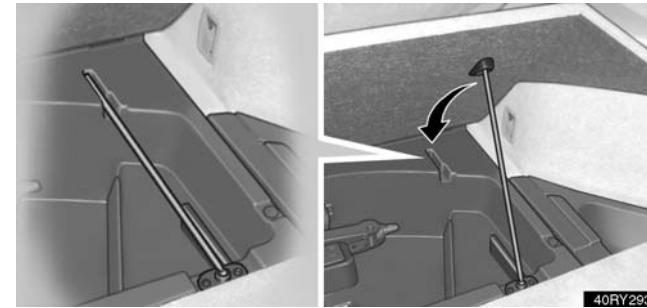
To get the required tools:

- 1 Pull up the front deck board.



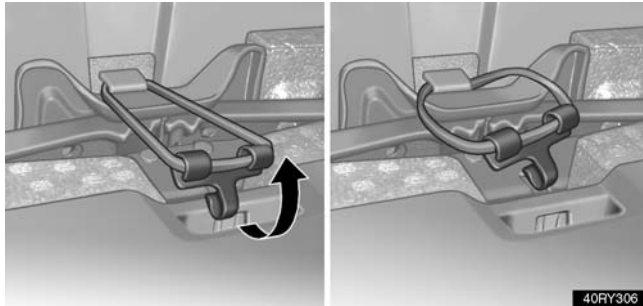
- 2 Hold the front deck board by the supporting rod.

Make sure the board is secured and does not fall down.



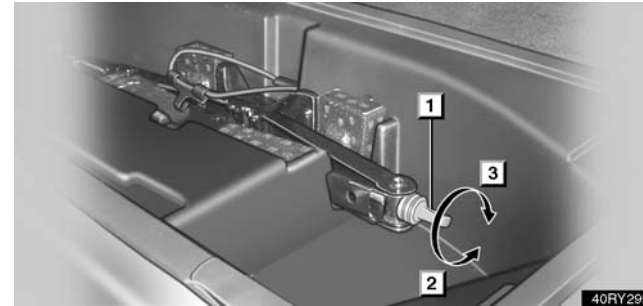
When closing the board, replace the supporting rod also in its original position as shown.

IN CASE OF AN EMERGENCY



To remove the jack, unhook the tightening strap.

To store the jack, make sure it is securely held by the tightening strap.



► **1 Joint**

- 2** When removing the jack, turn the joint by hand in the "contract" direction until the jack is free.
- 3** When storing, turn the joint by hand in the "expand" direction until the jack is firmly secured to prevent it from flying forward during a collision or sudden braking.

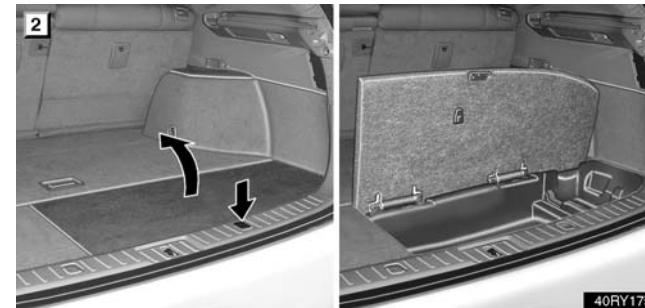
IN CASE OF AN EMERGENCY



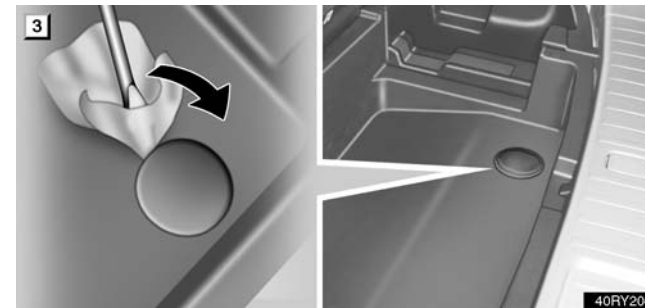
To remove the spare tire:

- 1 Remove the inside spare tire cover by turning it counterclockwise.

If it is difficult to remove the inside spare tire cover, remove the cover after pulling out the spare tire and stand it up against the bumper.

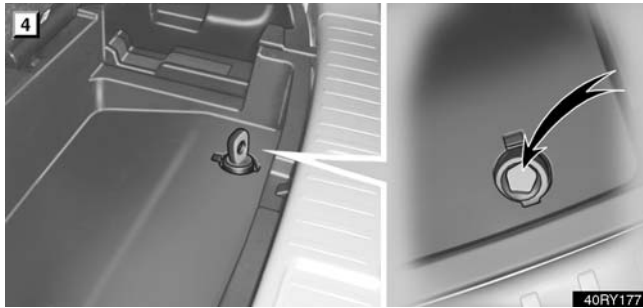


- 2 In the luggage compartment, open the right side auxiliary box by pushing the button. You will find the spare tire clamp bolt on the right side of the auxiliary box.



- 3 Remove the cover using a flat-bladed screwdriver which is wrapped with a cloth.

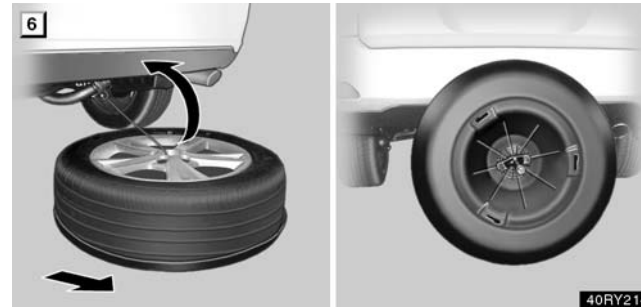
IN CASE OF AN EMERGENCY



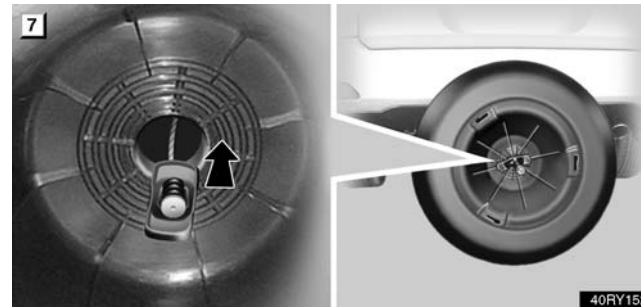
- 4** Put the adapter socket (for removing a spare tire) on the spare tire clamp bolt.



- 5** Connect the jack handle and the adapter socket. Turn the jack handle counterclockwise. The tire will lower completely to the ground.



- 6** Pull out the spare tire and stand it up against the bumper.



- 7** Remove the holding bracket.

IN CASE OF AN EMERGENCY



2. Block the wheel diagonally opposite the flat tire to keep the vehicle from rolling when it is jacked up.

When blocking the wheel, place a wheel block in front of one of the front wheels or behind one of the rear wheels.



3. Loosen all the wheel nuts.

Always loosen the wheel nuts before raising the vehicle.

Turn the wheel nuts counterclockwise to loosen them. To get maximum leverage, fit the wrench to the nut so that the handle is on the right side, as shown above. Grab the wrench near the end of the handle and pull up on the handle. Be careful that the wrench does not slip off the nut.

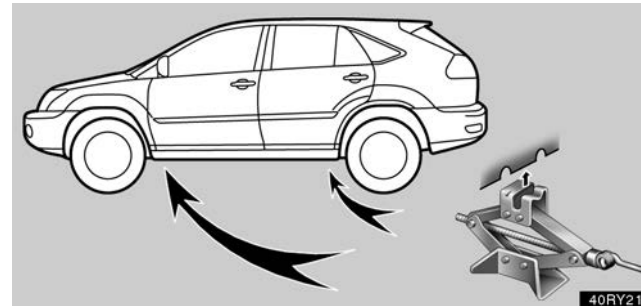
Do not remove the nuts yet — just unscrew them about one-half turn.

IN CASE OF AN EMERGENCY



CAUTION

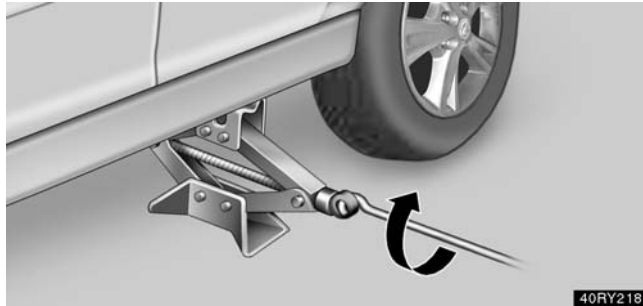
Never use oil or grease on the bolts or nuts. The nuts may loose and the wheels may fall off, which could cause a serious accident.



4. Position the jack at the jack points as shown.

Make sure the jack is positioned on a level and solid surface.

IN CASE OF AN EMERGENCY



5. After making sure no one is in the vehicle, raise it high enough so that the spare tire can be installed.

Allow for the fact that you need more ground clearance when putting on the spare tire than when removing the flat tire.

To raise the vehicle, insert the jack handle into the jack (it is a loose fit) and turn it clockwise. As the jack touches the vehicle and begins to lift, double-check that it is properly positioned.



6. Remove the wheel nuts and remove the flat tire.

Lift the flat tire straight off and put it aside.

CAUTION

Never get under the vehicle when the vehicle is supported by the jack alone.

IN CASE OF AN EMERGENCY



Before putting on the wheel, remove any corrosion on the mounting surfaces with a wire brush or such. Installation of wheels without good metal-to-metal contact at the mounting surface can cause wheel nuts to loosen and eventually cause a wheel to come off while driving.



7. Reinstall all the wheel nuts finger tight.

Align the holes in the wheel with the bolts. Then lift up the wheel and get at least the top bolt started through its hole. Wiggle the tire and press it back over the other bolts.

Reinstall the wheel nuts and tighten them as much as you can by hand. Press the tire back and see if you can tighten them more.

 CAUTION

Never use oil or grease on the bolts or nuts. Doing so may lead to overtightening the nuts and damaging the bolts. The nuts may loose and the wheels may fall off, which could cause a serious accident. If there is oil or grease on any bolt or nut, clean it.



8. Lower the vehicle completely and tighten the wheel nuts.

Turn the jack handle counterclockwise to lower the vehicle.

Use only the wheel nut wrench to tighten the nuts. Do not use other tools or any additional leverage other than your hands, such as a hammer, pipe or your foot. Make sure the wrench is securely engaged over the nut.

Tighten each nut a little at a time in the order shown. Repeat the process until all the nuts are tight.

IN CASE OF AN EMERGENCY



CAUTION

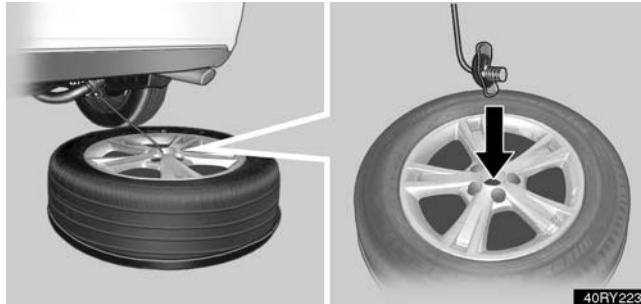
- When lowering the vehicle, make sure all portions of your body and all other persons around will not be injured as the vehicle is lowered to the ground.
- Have the wheel nuts tightened with torque wrench to 103 N·m (10.5 kgf·m, 76 ft·lbf), as soon as possible after changing wheels. Otherwise, the nuts may loosen and the wheels may fall off, which could cause a serious accident.
- Do not attach the heavily damaged plastic wheel ornament. It may fly off the wheel and cause accidents while the vehicle is moving.

9. After changing the wheel, check the air pressure of the replaced tire.

If the pressure of the replaced tire is low, drive slowly to the nearest service station and fill to the correct pressure.

Do not forget to reinstall the tire valve cap as dirt and moisture could get into the valve core and possibly cause air leakage. If the cap is missing, put a new one on as soon as possible.

IN CASE OF AN EMERGENCY



10. Stow all the tools, jack and flat tire securely.

To stow the flat tire, install the inside spare tire cover on the outer side of the spare tire cover. Put the flat tire in the spare tire cover with the outer side facing up and install the holding bracket. Turn the spare tire clamp bolt clockwise with a jack handle and adapter socket until you hear a click.

NOTICE

- *Ensure that there is no object caught between the tire and the vehicle underbody. Otherwise, the wheel may fly forward during a collision or sudden braking.*
- *Tighten the spare tire clamp bolt to hold the spare wheel carrier by the hook securely.*

This is the same procedure for changing or rotating your tires.



CAUTION

Before driving, make sure all the tools, jack and flat tire are securely in place in their storage location to reduce the possibility of personal injury during a collision or sudden braking.

IN CASE OF AN EMERGENCY

IF YOUR VEHICLE BECOMES STUCK

If your vehicle becomes stuck in snow, mud, sand, etc., then you may attempt to rock the vehicle free by moving it forward and backward.



CAUTION

Do not attempt to rock the vehicle free by moving it forward and backward if people or objects are anywhere near the vehicle. During the rocking operation the vehicle may suddenly move forward or backward as it becomes unstuck, causing injury or damage to nearby people or objects.

NOTICE

If you rock your vehicle, observe the following precautions to prevent damage to the transmission and other parts.

- *Do not depress the accelerator pedal while shifting the selector lever or before the transmission is completely shifted to forward or reverse gear.*
- *Avoid spinning the wheels.*
- *If your vehicle remains stuck after rocking the vehicle several times, consider other ways such as towing.*

IF YOUR VEHICLE NEEDS TO BE TOWED

If towing is necessary, we recommend you to have it done by your Lexus dealer or a commercial tow truck service. In consultation with them, have your vehicle towed using either (a) or (b).

- (a) Towing with a wheel lift type truck
- (b) Using a flat bed truck
- (c) Never tow with a sling type truck

Only when you cannot receive a towing service from a Lexus dealer or commercial tow truck service, tow your vehicle carefully in accordance with the instructions given in “(d) Emergency towing” on page 504.

Proper equipment will help ensure that your vehicle is not damaged while being towed. Commercial operators are generally aware of the state/provincial and local laws pertaining to towing.

Your vehicle can be damaged if it is towed incorrectly. Although most operators know the correct procedure, it is possible to make a mistake. To avoid damage to your vehicle, make sure the following precautions are observed. If necessary, show this page to the tow truck driver.

TOWING PRECAUTIONS:

Use a safety chain system for all towing, and abide by the state/provincial and local laws. The wheels and axle on the ground must be in good condition. If they are damaged, use a towing dolly.



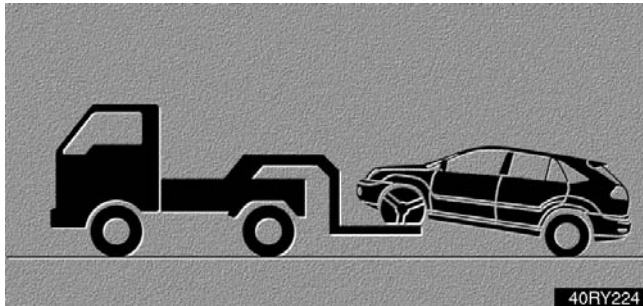
CAUTION

If your vehicle needs to be towed, do it with the front wheels raised (front wheel drive models) or all four wheels raised (all wheel drive models). If the wheels with the traction motor are on the ground when towing, the motor may continue to generate electricity. This may cause the electricity leakage. Depending on the severity of the damage, electricity leakage may cause fire.

IN CASE OF AN EMERGENCY

(a) Towing with a wheel lift type truck

- From front

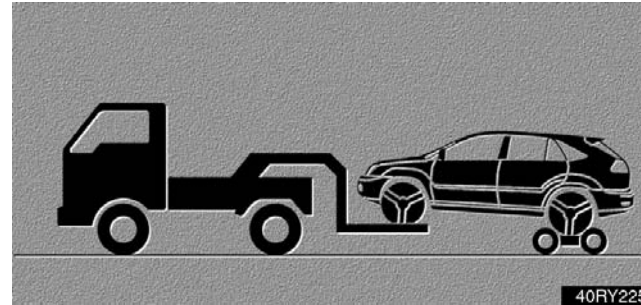


► Front wheel drive models

Release the parking brake.

NOTICE

When lifting wheels, take care to ensure adequate ground clearance for towing at the opposite end of the raised vehicle. Otherwise, the bumper and/or underbody of the towed vehicle will be damaged during towing.



► All wheel drive models

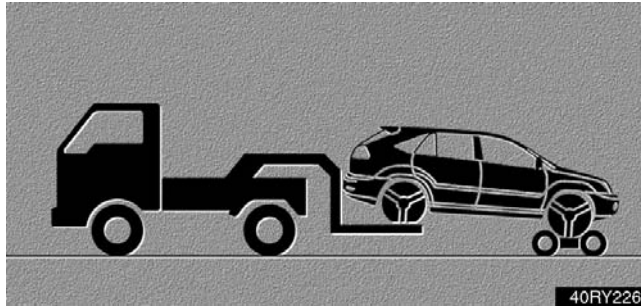
Use a towing dolly under the rear wheels.

NOTICE

Never tow from the front with rear wheels on the ground, as this may cause serious damage to the transmission.

IN CASE OF AN EMERGENCY

- From rear

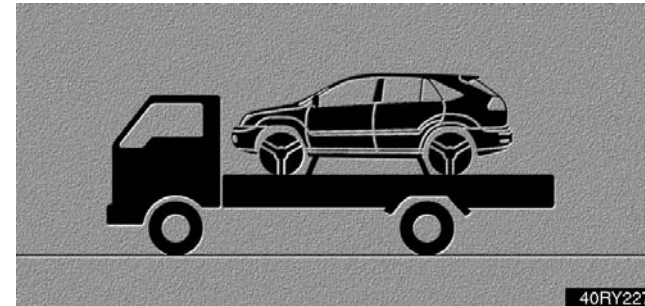


Use a towing dolly under the front wheels.

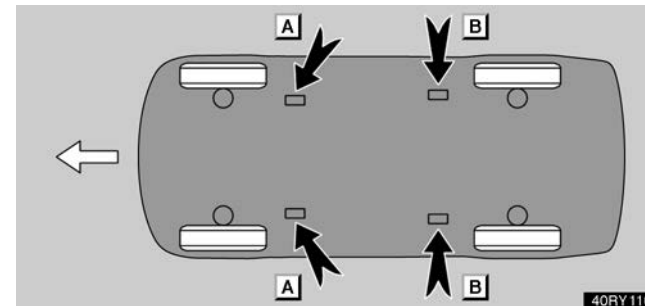
NOTICE

Never tow from the rear with front wheels on the ground, as this may cause serious damage to the transmission.

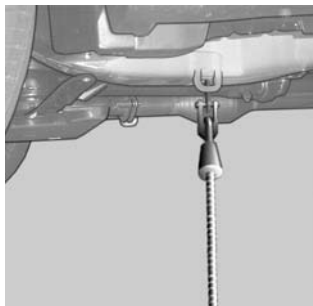
- (b) Using a flat bed truck



- Tie down points



IN CASE OF AN EMERGENCY

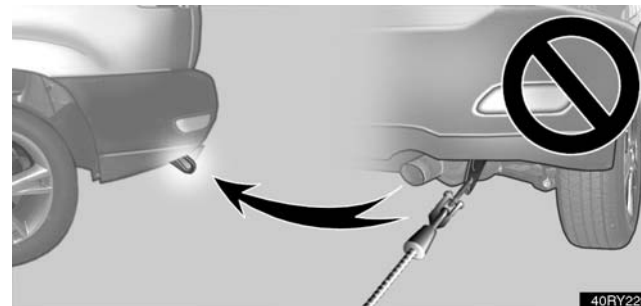


► **A** *Front*



► **B** *Rear*

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



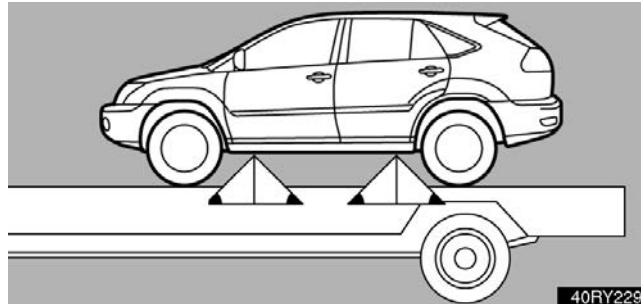
► *Rear emergency towing eyelets*

NOTICE

Do not use the rear emergency towing eyelets.

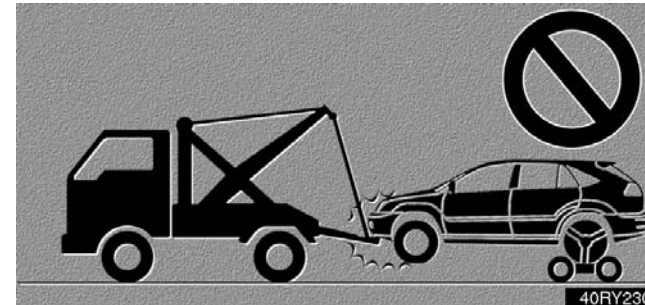
IN CASE OF AN EMERGENCY

- Tie down angle



If you use chains or wires to tie down your vehicle, the angles shaded black must be at 45°.

(c) Towing with a sling type truck



NOTICE

Do not tow with a sling type truck, either from the front or rear. This may cause body damage.

IN CASE OF AN EMERGENCY

(d) Emergency towing



If towing is necessary, we recommend you to have it done by your Lexus dealer or a commercial tow truck service.

If towing service is not available in an emergency, your vehicle may be temporarily towed using a cable or chain secured to the emergency towing eyelet on the front of the vehicle. Use extreme caution when towing the vehicle in this manner, and do not tow the vehicle at speeds in excess of 30 km/h (18 mph).

To install the front towing eyelet, see “(e) Installing front towing eyelet” on page 506.

NOTICE

- *Only use specified towing eyelet; otherwise your vehicle may be damaged.*
- *Never tow a vehicle from the rear with four wheels on the ground. This may cause serious damage to the transmission.*

A driver must be in the vehicle to steer it and operate the brakes.

Towing in this manner may be done only on hard-surfaced roads for a short distance and at low speeds. Also, the wheels, axles, drive train, steering and brakes must all be in good condition.

⚠ CAUTION

Use extreme caution when towing the vehicle. Avoid sudden starts or erratic driving maneuvers which would place excessive stress on the emergency towing eyelet and towing cable or chain. The eyelet and towing cable or chain may break and cause serious injury or damage.

IN CASE OF AN EMERGENCY

NOTICE

Use only a cable or chain specifically intended for use in towing vehicles. Securely fasten the cable or chain to the towing eyelet provided.

Before towing, release the parking brake and put the transmission in "N". The ignition key must be in "ACC" (hybrid system off) or "ON" (hybrid system on).

CAUTION

When the hybrid system is off, the power assist for the brakes and steering will not work so steering and braking will be much more difficult than usual.

Emergency towing eyelet precautions:

- Before emergency towing, check that the eyelet is not broken or damaged and that the installation bolts are not loose.
- Fasten the towing cable or chain securely to the eyelet.
- Do not jerk the eyelet. Apply steady and even force.
- To avoid damaging the eyelet, do not pull from the side or at a vertical angle. Always pull straight ahead.

CAUTION

If the emergency towing eyelet is used to get out when your vehicle becomes stuck in the mud, sand or other condition from which the vehicle cannot be driven out under its own power, make sure to observe the precautions mentioned below. Otherwise, excessive stress will be put on the eyelet and the towing cable or chain may break, causing serious injury or damage.

- If the towing vehicle can hardly move, do not forcibly continue the towing. Contact your Lexus dealer or a commercial tow truck service for assistance.

IN CASE OF AN EMERGENCY

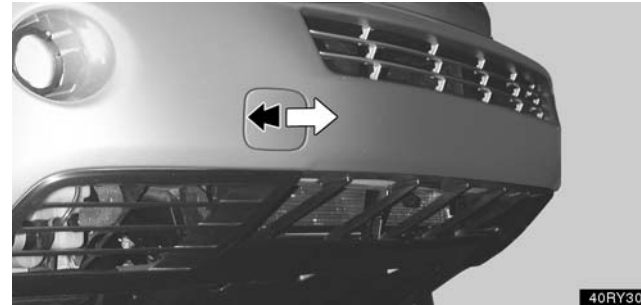
- Tow the vehicle as straight ahead as possible.
- Keep away from the vehicle during towing.

Tips for towing a stuck vehicle:

The following methods are effective to use when your vehicle is stuck in the mud, sand or other condition from which the vehicle cannot be driven out under its own power. Use extreme caution when towing the vehicle. In addition, keep away from the vehicles and towing cable or chain when towing.

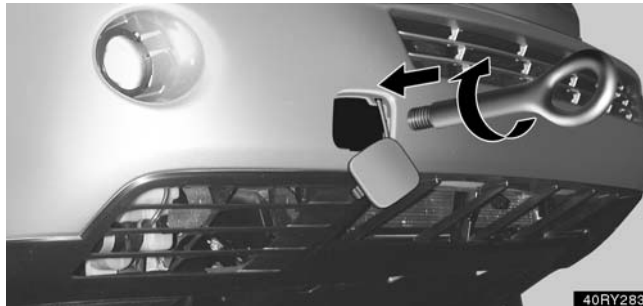
- Remove the sand and soil in the front and the back of the tires.
- Place stones or wood under the tires.

(e) Installing front towing eyelet

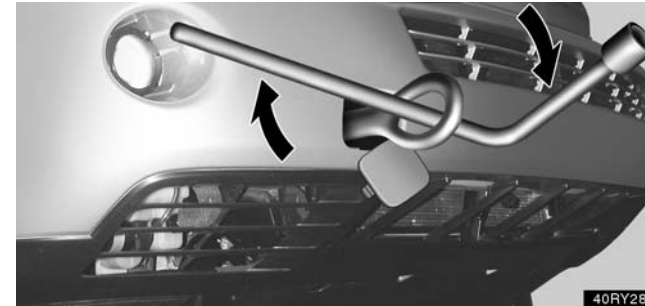


1. Remove the front towing eyelet cover on the front bumper by pushing the outside portion of the cover.

IN CASE OF AN EMERGENCY



2. Use the front towing eyelet in the luggage compartment. Secure it to the hole on the bumper by turning clockwise. (For the eyelet location, see page 486.)



3. Tighten the front towing eyelet securely by a wheel nut wrench.

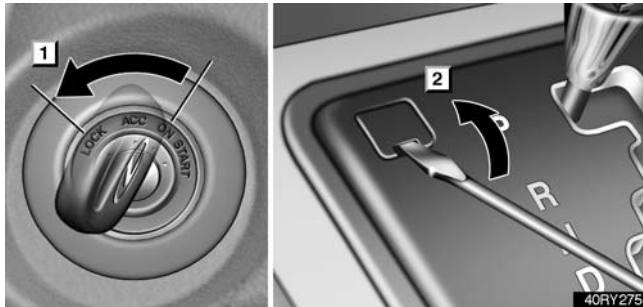


CAUTION

When installing the eyelet on the vehicle, be sure to tighten the front eyelet securely. If the eyelet is loose, it may come off when being towed and result in death or serious injury.

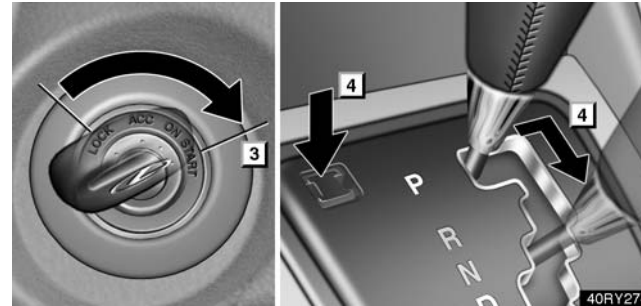
IN CASE OF AN EMERGENCY

IF YOU CANNOT SHIFT TRANSMISSION SELECTOR LEVER



If you cannot shift the selector lever out of “P” position to other positions even though the brake pedal is depressed, use the shift lock override button as follows:

- 1** Turn the ignition key to “LOCK”. Make sure the parking brake is applied.
- 2** Pry up the cover with a flathead screwdriver or equivalent.



- 3** Turn the ignition to “START” and turn the hybrid system on.
- 4** With pushing down the shift lock override button, shift out of the “P” position while depressing the brake pedal.

Be sure to have the system checked by your Lexus dealer as soon as possible.

IF YOU LOSE YOUR KEYS OR LOCK YOURSELF OUT

You can purchase a new key at your Lexus dealer if you can give them the key number and master key.

Even if you lose only one key, contact your Lexus dealer to make a new key. If you lose all your master keys, you cannot make new keys; the whole engine immobilizer system must be replaced.

See the suggestion given in "Keys" on page 26.

You can use the wireless remote control system with the new key. Contact your Lexus dealer for detailed information.

If your keys are locked in the vehicle and you cannot get a duplicate, many Lexus dealers can still open the door for you using special tools. If you must break a window to get in, we suggest breaking the smallest side window because it is the least expensive to replace. Be extremely cautious to avoid glass cuts.

SECTION 5

MAINTENANCE

Maintenance

Maintenance requirements	512
General maintenance	513
Does your vehicle need repairing?	516
Emissions Inspection and Maintenance (I/M) programs	517

For scheduled maintenance information, please refer to the “Owner’s Manual Supplement / Scheduled Maintenance”.

MAINTENANCE

MAINTENANCE REQUIREMENTS

Your Lexus vehicle has been designed to have fewer maintenance requirements with longer service intervals to save both your time and money. However, each regular maintenance as well as day-to-day care is more important than ever before to ensure smooth, trouble-free, safe, and economical driving.

It is the owner's responsibility to make sure the specified maintenance, including general maintenance services, is performed. Note that both the new vehicle and emission control system warranties specify that proper maintenance and care must be performed. See "Owner's Guide", "Owner's Manual Supplement" or "Warranty Booklet" for complete warranty information.

General maintenance

General maintenance items are those day-to-day care practices that are important to your vehicle for proper operation. It is the owner's responsibility to ensure that the general maintenance items are performed regularly.

These checks or inspections can be done either by yourself or your Lexus dealer.

Scheduled maintenance

The scheduled maintenance items listed in the "Owner's Manual Supplement / Scheduled Maintenance" are those required to be serviced at regular intervals.

For details of your maintenance schedule, read the "Owner's Manual Supplement / Scheduled Maintenance".

It is recommended that only genuine Lexus parts be used for maintenance or for the repair of the emission control system.

The owner may elect to use non-Lexus supplied parts for replacement purposes without invalidating the emission control system warranty. However, use of replacement parts which are not of equivalent quality may impair the effectiveness of the emission control systems.

You may also elect to have maintenance, replacement, or repair of the emission control devices and system performed by any automotive repair establishment or individual without invalidating this warranty. See "Owner's Guide", "Owner's Manual Supplement" or "Warranty Booklet" for complete warranty information.

Where to go for service?

Lexus technicians are well-trained specialists and are kept up to date with the latest service information through technical bulletins, service tips, and in-dealership training programs. They are well informed about the operation of all the systems on your vehicle.

You can be confident that your Lexus dealer's service department performs the best job to meet the maintenance requirements of your vehicle.

Your copy of the repair order is proof that all required maintenance has been performed for warranty coverage. If any problems should arise with your vehicle while under warranty, your Lexus dealer will promptly take care of it. Again, be sure to keep a copy of the repair order for any service performed on your Lexus.

What about do-it-yourself maintenance?

Many of the maintenance items are easy to do yourself, if you have a little mechanical ability and a few basic automotive tools. Simple instructions for how to perform them are presented in Section 6.

If you are a skilled do-it-yourself mechanic, the Lexus service manuals are recommended. Please be aware that do-it-yourself maintenance can affect your warranty coverage. See "Owner's Guide", "Owner's Manual Supplement" or "Warranty Booklet" for the details.

GENERAL MAINTENANCE

Listed below are the general maintenance items that should be performed at the intervals specified. It is recommended that any problem you notice be brought to the attention of your Lexus dealer or qualified service shop for their advice.



CAUTION

Make these checks only with adequate ventilation if the hybrid system is turned on.

Engine compartment

Items listed below should be checked from time to time, e.g. each time when refueling.

Washer fluid

Make sure there is sufficient fluid in the tank. See page 593 for additional information.

Coolant level

Make sure the coolant level is between the "FULL" and "LOW" lines on the see-through reservoir when the hybrid system is cold. See page 547 for additional information.

Radiator, condenser and hoses

Check that the front of the radiator and condenser are clean and not blocked with leaves, dirt or insects. See page 549 for additional information.

MAINTENANCE

Auxiliary battery

Check the condition of the auxiliary battery by looking at the indicator color. See page 585 for additional information.

Brake fluid level

Make sure the brake fluid level is correct. See page 555 for additional information.

Engine oil level

Check the level on the dipstick with the hybrid system turned off and the vehicle parked on a level spot. See page 543 for additional information.

Exhaust system

If you notice any change in the sound of the exhaust or smell exhaust fumes, have the cause located and corrected immediately. (See "Engine exhaust caution" on page 406.)

Vehicle interior

Items listed below should be checked regularly, e.g. while performing periodic services, cleaning the vehicle, etc.

Lights

Make sure the headlight, stop lights, tail lights, turn signal lights, and other lights are working. Check headlight aim.

Service reminder indicators and warning buzzers

Check that all service reminder indicators and warning buzzers function properly.

Steering wheel

Check that it has the specified free play. Be alert for changes in steering condition, such as hard steering, excessive free play or strange noise.

Seats

Check that all front seat controls such as seat adjusters, seatback recliner, etc., operate smoothly. Check that the head restraints move up and down smoothly and that the locks hold securely in any latched position. For folding-down rear seatbacks, check that the latches lock securely.

Seat belts

Check that the seat belt system such as buckles, retractors and anchors operate properly and smoothly. Make sure the belt webbing is not cut, frayed, worn or damaged.

Accelerator pedal

Check the pedal for smooth operation and uneven pedal effort or catching.

Brake pedal

Check the pedal for smooth operation and the proper clearance and free play. Check the brake booster function.

Brakes

In a safe place, check that the brakes do not pull to one side when applied.

Parking brake

Check that the pedal has the proper travel and that, on a safe incline, your vehicle is held securely with only the parking brake applied.

Automatic transmission "Park" mechanism

Check the lock release button of the selector lever for proper and smooth operation. On a safe incline, check that your vehicle is held securely with the selector lever in "P" position and all brakes released.

Vehicle exterior

Items listed below should be performed from time to time, unless otherwise specified.

Fluid leaks

Check underneath for leaking fuel, oil, water or other fluid after the vehicle has been parked for a while. If you smell fuel fumes or notice any leak, have the cause found and corrected immediately.

Doors and engine hood

Check that all side doors and back door operate smoothly and all latches lock securely. Make sure the engine hood secondary latch secures the hood when the primary latch is released.

MAINTENANCE

Tire inflation pressure

Check the pressure with a gauge every two weeks, or at least once a month and adjust as shown on the tire and loading information label. See page 556 for additional information.

Tire surface

Check the tires carefully for cuts, damage or excessive wear. See page 572 for additional information.

Wheel nuts

When checking the tires, make sure to check the nuts for looseness. Tighten them if necessary.

Tire rotation

Rotate the tires according to the maintenance schedule. (For scheduled maintenance information, please refer to the "Owner's Manual Supplement / Scheduled Maintenance".) See "Rotating tires" on page 571.

DOES YOUR VEHICLE NEED REPAIRING?

Be on the alert for changes in performance and sounds, and visual tip-offs that indicate service is needed. Some important clues are:

- Engine missing, stumbling, or pinging
- Appreciable loss of power
- Strange engine noises
- A fluid leak under the vehicle (However, water dripping from the air conditioning after use is normal.)
- Change in exhaust sound (This may indicate a dangerous carbon monoxide leak. Drive with the windows open and have the exhaust system checked immediately.)
- Flat-looking tires, excessive tire squeal when cornering, uneven tire wear
- Vehicle pulls to one side when driving straight on a level road
- Strange noises related to suspension movement
- Loss of brake effectiveness, spongy feeling brake pedal, pedal almost touches the floor, vehicle pulls to one side when braking
- Engine coolant temperature continually higher than normal

If you notice any of these clues, take your vehicle to your Lexus dealer as soon as possible. It probably needs adjustment or repair.

 CAUTION

Do not continue driving with the vehicle unchecked. It could result in serious vehicle damage and possibly personal injury.

EMISSIONS 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. When the OBD system determines that a problem exists somewhere in the emission control system, the malfunction indicator lamp comes on. In this case, your vehicle may not pass the I/M test and need to be repaired. Contact your Lexus dealer to service the vehicle.

Even if the malfunction indicator lamp does not come on, your vehicle may not pass the I/M test as readiness codes have not been set in the OBD system.

Readiness codes are automatically set during ordinary driving. However, when the auxiliary battery is disconnected or run down, the codes are erased. Also, depending on your driving habits, the codes may not be completely set.

Also, if the malfunction indicator lamp had come on recently due to temporary malfunction such as a loose fuel tank cap, your vehicle may not pass the I/M test.

The malfunction indicator lamp will go off after taking several driving trips, but the error code in the OBD system will not be cleared unless about 40 trips or more are taken.

MAINTENANCE

If your vehicle does not pass the I/M test even the malfunction indicator lamp does not come on, contact your Lexus dealer to prepare the vehicle for re-testing.

SECTION 6 – 1

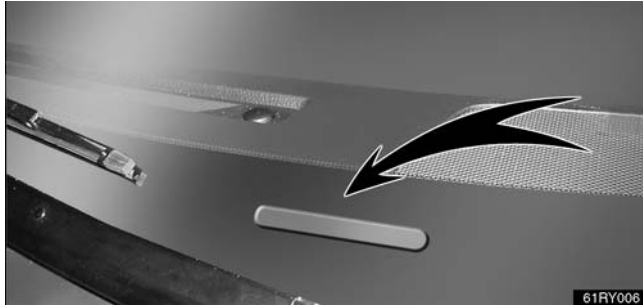
SERVICE PROCEDURES AND SPECIFICATIONS

Introduction

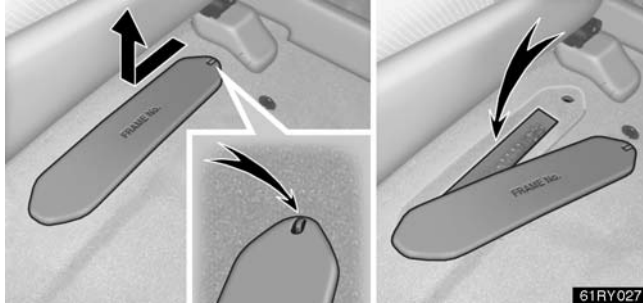
Vehicle identification	520
Theft prevention labels	521
Engine compartment overview	523
Do-it-yourself service precautions	527
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INTRODUCTION

VEHICLE IDENTIFICATION



► Top left of the instrument panel

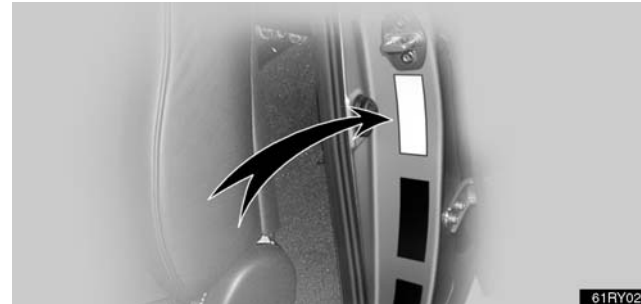


► Under the front passenger's seat (on some models)

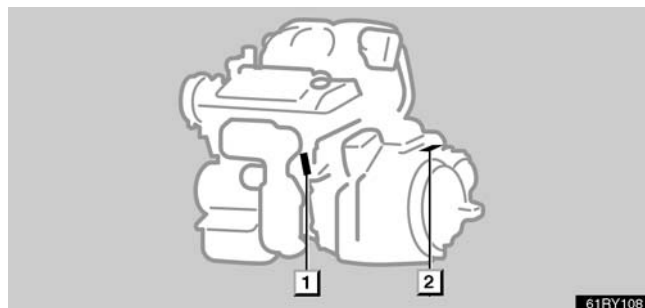
The vehicle identification number (VIN) is the legal identifier for your vehicle. This number is shown on the left top of the instrument panel and can be seen through the windshield from outside.

On some models — This number is also stamped under the front passenger's seat.

This is the primary identification number for your Lexus. It is used in registering the ownership of your vehicle.



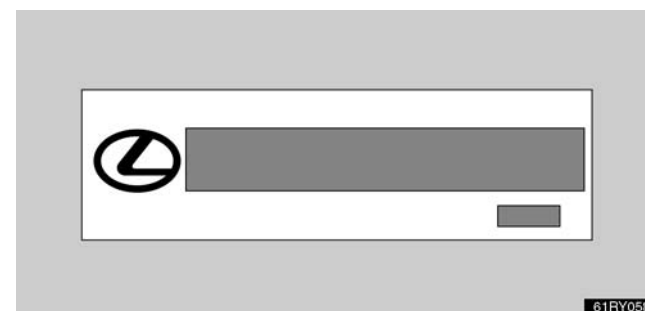
The vehicle identification number (VIN) is also on the Certification Label.



- **1** Gasoline engine number
2 Traction motor number

The gasoline engine number and traction motor number are stamped as shown.

THEFT PREVENTION LABELS (U.S.A. ONLY)



Your new vehicle carries theft prevention labels which are approximately 47 mm (1.85 in.) by 12 mm (0.47 in.).

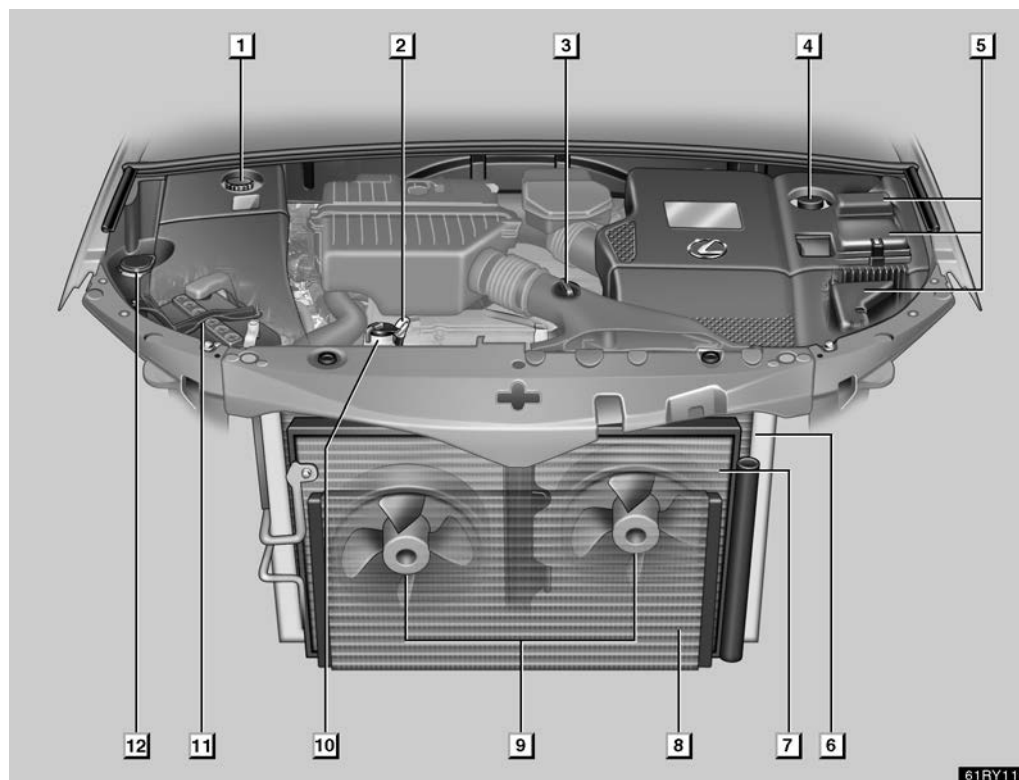
The purpose of these labels is to reduce the incidence of vehicle thefts by facilitating the tracing and recovery of parts from stolen vehicles. The label is designed so that once it is applied to a surface, any attempt to remove it will result in destroying the integrity of the label. Transferring these labels intact from one part to another will be impossible.

INTRODUCTION

NOTICE

You should not attempt to remove the theft prevention labels as it may violate certain state or federal laws.

ENGINE COMPARTMENT OVERVIEW



- 1** Brake fluid reservoir
- 2** Engine oil level dipstick
- 3** Engine oil filler cap
- 4** Inverter coolant reservoir
- 5** Fuse boxes
- 6** Engine coolant radiator
- 7** Condenser
- 8** Inverter coolant radiator
- 9** Electric cooling fans
- 10** Engine coolant reservoir
- 11** Auxiliary battery
- 12** Washer fluid tank

INTRODUCTION

High voltage current runs in the parts and cables in the engine compartment. Do not touch high voltage parts, cables and connectors. See “High voltage components” on page 8 for details.

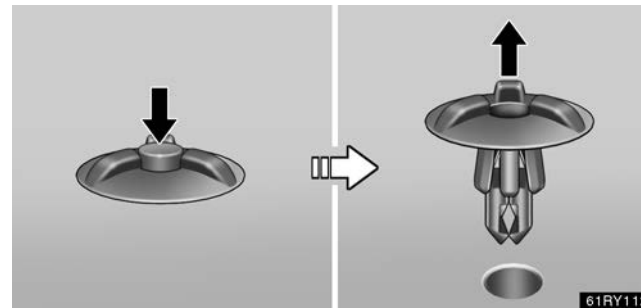


CAUTION

Never touch, disassemble, remove or replace the high voltage parts, cables and their connectors. It can cause severe burns or electric shock that may result in death or serious injury.

Removing the engine compartment covers

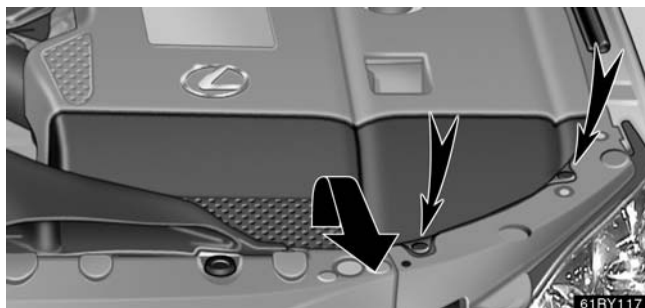
Before jump starting, checking the fuse or replacing the front light bulbs, etc. in the engine compartment, remove the engine compartment covers as follows:



► Removing the clip

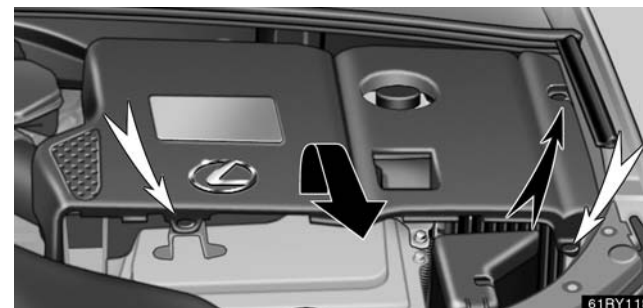
1. Push the core of the clips and remove the clips.
2. Remove the cover.

Be careful not to lose the removed plastic clips.



► **Removing the left front cover**

➤ : **Clips**

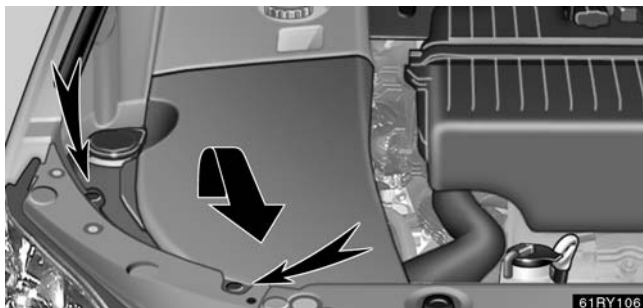


► **Removing the left rear cover**

➤ : **Clip**

➤ : **Hooks**
(Hook up gently to remove.)

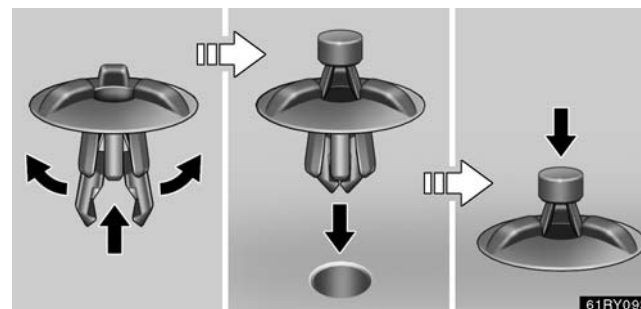
INTRODUCTION



► *Removing the right cover*

➤ : Clips

After checking the items, install the engine compartment covers and insert the plastic clips in their original positions.



► *Installing the clip*

NOTICE

After installing the engine compartment covers, make sure the covers are securely in their original positions.

DO-IT-YOURSELF SERVICE PRECAUTIONS

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

You should be aware that improper or incomplete servicing may result in operating problems.

Performing do-it-yourself maintenance during the warranty period may affect your warranty coverage. Read the separate Lexus Warranty statement for details and suggestions.

This Section gives instructions only for those items that are relatively easy for an owner to perform. As explained in Section 5, there are still a number of items that must be performed by a qualified technician with special tools.

For information on tools and parts for do-it-yourself maintenance, see "Parts and tools" on page 529.

Utmost care should be taken when working on your vehicle to prevent accidental injury. Here are a few precautions that you should be especially careful to observe:



CAUTION

- Never touch, disassemble, remove or replace the high voltage parts, cables and their connectors. It can cause severe burns or electric shock that may result in death or serious injury. See "High voltage components" on page 8 for details.
- When the hybrid system is on, keep hands, clothing, and tools away from the moving fan. (Removing rings, watches, and ties is advisable.)
- Right after driving, the engine compartment — the engine, radiator and exhaust manifold, etc. — will be hot. So be careful not to touch them. Oil and other fluids may also be hot.
- If the hybrid system is hot, do not remove the radiator cap or loosen the drain plugs to prevent burning yourself.
- Do not leave anything that may burn easily, such as paper or rags, in the engine compartment.
- Do not smoke, cause sparks or allow open flames around fuel or the auxiliary battery. Their fumes are flammable.
- When the hybrid system is operating with the "READY" light on, the engine may suddenly start in some cases. When you inspect the engine compartment, be sure to turn off the hybrid system.

INTRODUCTION

- Do not get under your vehicle with just the body jack supporting it. Always use automotive jack stands or other solid supports.
- Be sure that the ignition is off if you work near the electric cooling fans or radiator grille. With the ignition on, the electric cooling fans will automatically start to run if the engine coolant temperature is high and/or the air conditioning is on.
- Use eye protection whenever you work on or under your vehicle where you may be exposed to flying or falling material, fluid spray, etc.
- Brake fluid can harm your hands or 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 feel uncomfortable with your hands or eyes, go to the doctor.
- Be extremely cautious when working on the auxiliary battery. It contains poisonous and corrosive sulfuric acid.

NOTICE

- *Remember that the auxiliary battery and ignition cables carry high currents or voltages. Be careful of accidentally causing a short circuit.*
- *Before closing the hood, check to see that you have not forgotten any tools, rags, etc.*
- *Do not drive with the air cleaner removed, or excessive engine wear could result. Also backfiring could cause a fire in the engine compartment.*
- *If the brake fluid is spilled on the vehicle, be sure to wash it off with water to prevent damage to parts or paint.*
- *Be careful not to scratch the glass surface with the wiper frame.*

PARTS AND TOOLS

Here is a list of parts and tools you will need to perform do-it-yourself maintenance. Remember all Lexus parts are designed in metric sizes, so your tools must be metric.

Checking the engine oil level

Parts (if level is low):

- “Toyota Genuine Motor Oil” or equivalent
See page 545 for details about engine oil selection.

Tools:

- Rag or paper towel
- Funnel (only for adding oil)

Checking the coolant level

Parts (if level is low):

- “Toyota Super Long Life Coolant” or similar high quality ethylene glycol based non-silicate, non-amine, non-nitrite, and non-borate coolant with long-life hybrid organic acid technology.

“Toyota Super Long Life Coolant” is a mixture of 50% coolant and 50% deionized water (for the U.S.A.) or 55% coolant and 45% deionized water (for Canada).

Tools:

- Funnel (only for adding coolant)

Checking brake fluid

Parts (if level is low):

- FMVSS No. 116 DOT 3 or SAE J1703 brake fluid

Tools:

- Rag or paper towel
- Funnel (only for adding fluid)

Checking auxiliary battery condition

Tools:

- Warm water
- Baking soda
- Grease
- Conventional wrench (for terminal clamp bolts)

INTRODUCTION

Checking and replacing the blade type fuses

Parts (if replacement is necessary):

- Fuse with same amperage rating as original

Checking the cartridge type fuses

Parts (if replacement is necessary):

- Genuine Lexus fuse or equivalent with same amperage rating as original

Adding washer fluid

Parts:

- Water
- Washer fluid containing antifreeze (for winter use)

Tools:

- Funnel

POSITIONING THE JACK



► *Front*



► *Rear (front wheel drive models)*



► *Rear (all wheel drive models)*

When jacking up your vehicle with the jack, position the jack correctly as shown in the illustrations.

 CAUTION

When jacking, be sure to observe the following to reduce the possibility of personal injury:

- Follow jacking instructions.
- Do not put any part of your body under the vehicle supported by the jack. Otherwise, personal injury may occur.
- Do not start the hybrid system while your vehicle is supported by the jack.
- Stop the vehicle on a level firm ground, firmly set the parking brake and put the transmission in "P". Block the wheels on the opposite side of the jack up point if necessary.
- Make sure to set the jack properly in the jack point. Raising the vehicle with jack improperly positioned will damage the vehicle or may allow the vehicle to fall off the jack and cause personal injury.
- Never get under the vehicle when the vehicle is supported by the jack alone; use vehicle support stands.
- Do not raise the vehicle with someone in the vehicle.
- When raising the vehicle, do not place any objects on top of or underneath the jack.

INTRODUCTION

NOTICE

Make sure to place the jack correctly, or your vehicle may be damaged.

SECTION 6 – 2

SERVICE PROCEDURES AND SPECIFICATIONS

Hybrid system

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Facts about engine oil consumption	541
Used engine oil	543
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Checking the coolant level	547
Checking the radiators and condenser	549
Spark plugs	549

HYBRID SYSTEM

SPECIFICATIONS

— GASOLINE ENGINE

Model	3MZ-FE
Type	6 cylinder V type, 4 cycle, gasoline
Bore and stroke	92 × 83 mm (3.62 × 3.27 in.)
Displacement	3311 cm ³ (202.1 cu. in.)
Valve clearance (engine cold) Intake Exhaust	0.15 — 0.25 mm (0.006 — 0.010 in.) 0.25 — 0.35 mm (0.010 — 0.014 in.)

— FUEL

Type	Unleaded gasoline only
Octane Rating	87 (Research Octane Number 91) or higher

HYBRID SYSTEM

— FRONT TRACTION MOTOR

Type	Permanent magnet synchronous motor
Maximum output	123 kW/4500 rpm
Maximum torque	333 N·m (33.9 kgf·m, 245 ft·lbf)/0 — 1500 rpm

— REAR TRACTION MOTOR (all wheel drive models)

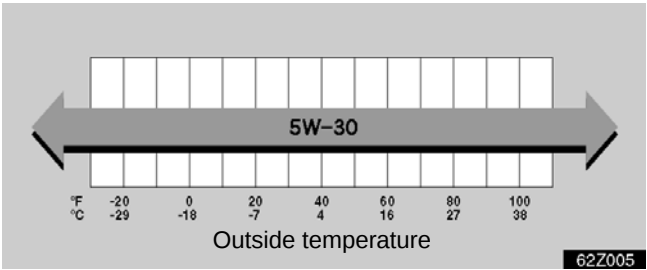
Type	Permanent magnet synchronous motor
Maximum output	50 kW/4610 — 5120 rpm
Maximum torque	130 N·m (13.2 kgf·m, 95 ft·lbf)/0 — 610 rpm

— TRACTION BATTERY

Type	Nickel–Metal hydride battery
Voltage	9.6 V/module
Capacity	6.5 Ah (3HR)
Quantity	30 modules
Overall voltage	288 V

HYBRID SYSTEM

— LUBRICATION SYSTEM

Oil capacity Drain and refill With filter Without filter	4.7 L (5.0 qt., 4.1 Imp. qt.) 4.5 L (4.8 qt., 4.0 Imp. qt.)
Oil grade	ILSAC multigrade engine oil
Recommended oil viscosity (SAE):	

NOTE:
“Toyota Genuine Motor Oil” is used in your Lexus vehicle. Use Lexus approved “Toyota Genuine Motor Oil” or equivalent to satisfy the above grade and viscosity. Please contact your Lexus dealer for further details.

HYBRID SYSTEM

— COOLING SYSTEM

Capacity Engine coolant Inverter coolant	10.3 L (10.9 qt., 9.0 Imp. qt.) 3.4 L (3.6 qt., 3.0 Imp. qt.)
Coolant type	“Toyota Super Long Life Coolant” or similar high quality ethylene glycol based non-silicate, non-amine, non-nitrite, and non-borate coolant with long-life hybrid organic acid technology (Coolant with long-life hybrid organic acid technology is a combination of low phosphates and organic acids.) Do not use plain water alone.

NOTE:

“Toyota Super Long Life Coolant” is used in your Lexus vehicle at factory fill. In order to avoid technical problems, only use “Toyota Super Long Life Coolant” or similar high quality ethylene glycol based non-silicate, non-amine, non-nitrite, and non-borate coolant with long-life hybrid organic acid technology. (Coolant with long-life hybrid organic acid technology is a combination of low phosphates and organic acids.) Please contact your Lexus dealer for further details.

— IGNITION SYSTEM

Spark plug — Make	DENSO NGK	SK20R11 IFR6A11 1.1 mm (0.043 in.)
— Gap		

HYBRID SYSTEM

— ELECTRICAL SYSTEM FOR ACCESSORIES

Auxiliary battery Open voltage at 20°C (68°F):	12.6 — 12.8 V 12.2 — 12.4 V 11.8 — 12.0 V [Voltage that is checked 20 minutes after the key is removed with all the lights turned off]	Fully charged Half charged Discharged
Charging rates	5 A max.	

FUEL

Fuel type

Your vehicle must use only unleaded gasoline.

To help prevent gas station mixups, your Lexus has a smaller fuel tank opening. The special nozzle on pumps with unleaded fuel will fit it, but the larger standard nozzle on pumps with leaded gas will not.

At a minimum, the gasoline you use should meet the specifications of ASTM D4814 in the U.S.A. and CGSB 3.5-M93 in Canada.

NOTICE

Do not use leaded gasoline. Use of leaded gasoline will cause the three-way catalytic converter to lose its effectiveness and the emission control system to function improperly. Also, this can increase maintenance costs.

Octane rating

Select Octane Rating 87 (Research Octane Number 91) or higher. For improved vehicle performance, the use of premium unleaded gasoline with an Octane Rating of 91 (Research Octane Number 96) or higher is recommended.

Use of unleaded fuel with an Octane Rating or Research Octane Number lower than stated above will cause persistent heavy knocking. If it is severe, this will lead to engine damage.

If your engine knocks...

If you detect heavy knocking even when using the recommended fuel, or if you hear steady knocking while holding a steady speed on level roads, consult your Lexus dealer.

However, occasionally, you may notice light knocking for a short time while accelerating or driving up hills. This is normal and there is no need for concern.

Gasoline containing detergent additives

Lexus recommends the use of gasoline that contains detergent additives to avoid build-up of engine deposits.

However, all gasoline sold in the U.S. contains detergent additives to keep clean and/or clean intake systems.

HYBRID SYSTEM

Quality gasoline

Automotive manufacturers in the U.S., Europe and Japan have developed a specification for quality fuel named World-Wide Fuel Charter (WWFC) that is expected to be applied world wide. The WWFC consists of four categories that depend on required emission levels. In the U.S., category 4 has been adopted. The WWFC improves air quality by providing for better emissions in vehicle fleets, and customer satisfaction through better vehicle performance.

Cleaner burning gasoline

Cleaner burning gasoline, including reformulated gasoline that contains oxygenates such as ethanol or MTBE 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.

Oxygenates in gasoline

Lexus allows the use of oxygenate blended gasoline where the oxygenate content is up to 10% ethanol or 15% MTBE. If you use gasohol in your Lexus, be sure that it has an octane rating no lower than 87.

Lexus does not recommend the use of gasoline containing methanol.

Gasoline containing MMT

Some gasoline contain an octane enhancing additive called MMT (Methylcyclopentadienyl Manganese Tricarbonyl).

Lexus does not recommend the use of gasoline that contains MMT. If fuel containing MMT is used, your emission control system may be adversely affected. The Malfunction Indicator Lamp on the instrument cluster may come on. If this happens, contact your Lexus dealer for service.

Gasoline quality

In a very few cases, you may experience driveability problems caused by the particular gasoline that you are using. If you continue to have unacceptable driveability, try changing gasoline brands. If this does not rectify your problem, then consult your Lexus dealer.

NOTICE

- *Do not use gasohol other than stated above. It will cause fuel system damage or vehicle performance problems.*
- *If drivability problems are encountered (poor hot starting, vaporizing, engine knock, etc.), discontinue its use.*
- *Take care not to spill gasohol during refueling. Gasohol may cause paint damage.*

Fuel tank capacity

65 L (17.2 gal., 14.3 Imp.gal.)

FACTS ABOUT ENGINE OIL CONSUMPTION

Functions of engine oil

Engine oil has the primary function of lubricating and cooling the inside of the engine, and plays a major role in maintaining the engine in proper working order.

Engine oil consumption

It is normal that an engine should consume some engine oil during normal engine operation. The causes of oil consumption in a normal engine are as follows.

- Oil is used to lubricate pistons, piston rings and cylinders. A thin film of oil is left on the cylinder wall when a piston moves downwards in the cylinder. High negative pressure generated when the vehicle is decelerating sucks some of this oil into the combustion chamber. This oil as well as some part of the oil film left on the cylinder wall is burned by the high temperature combustion gases during the combustion process.
- Oil is also used to lubricate the stems of the intake valves. Some of this oil is sucked into the combustion chamber together with the intake air and is burned along with the fuel. High temperature exhaust gases also burn the oil used to lubricate the exhaust valve stems.

HYBRID SYSTEM

The amount of engine oil consumed depends on the viscosity of the oil, the quality of the oil and the way the vehicle is driven.

More oil is consumed under driving conditions such as high speeds and frequent acceleration and deceleration.

A new engine consumes more oil, since its pistons, piston rings and cylinder walls have not become conditioned.

Oil consumption: Max. 1.0 L per 1000 km (1.1 qt./600 miles, 0.9 Imp. qt./600 miles)

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.

For example, if a vehicle is used for repeated short trips and consumes a normal amount of oil, the dipstick may not show any drop in the oil level at all, even after 1000 km (600 miles) or more. This is because the oil is gradually becoming diluted with fuel or moisture, making it appear that the oil level has not changed.

The diluting ingredients evaporate out when the vehicle is then driven at high speeds, as on an expressway, making it appear that oil is excessively consumed after driving at high speeds.

Importance of engine oil level check

One of the most important points in proper vehicle maintenance is to keep the engine oil at the optimum level so that oil function will not be impaired. Therefore, it is essential that the oil level be checked regularly. Lexus recommends that the oil level be checked every time you refuel the vehicle.

NOTICE

Failure to check the oil level regularly could lead to serious engine trouble due to insufficient oil.

For detailed information on oil level checks, see "Checking the engine oil level" on page 543.

USED ENGINE OIL

CAUTION

- Used engine oil contains potentially harmful contaminants which may cause skin disorders such as inflammation or skin cancer, so care should be taken to avoid prolonged and repeated contact with it. To remove used engine oil from your skin, wash thoroughly with soap and water.
- Do not leave used oil within the reach of children.
- Dispose of used oil and used oil filters only in a safe and acceptable manner. Do not dispose of used oil and used oil filters in household trash, in sewers or onto the ground. Call your Lexus dealer or a service station for information concerning recycling or disposal.

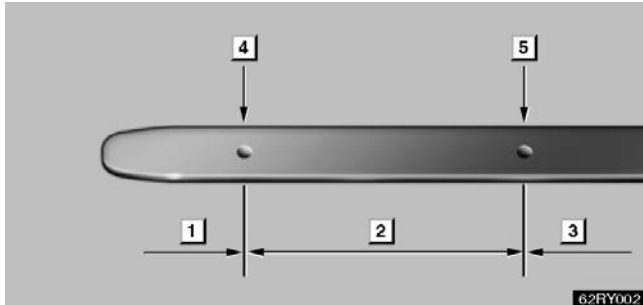
CHECKING THE ENGINE OIL LEVEL



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

1. To get a correct reading, the vehicle should be on level ground. After turning off the hybrid system, wait a few minutes for the oil to drain back into the bottom of the engine.
2. Pull the dipstick out, hold a rag under the end and wipe it clean.
3. Reinsert the dipstick and push it in as far as it will go, or the reading will not be correct.

HYBRID SYSTEM



► **1 Add oil** **2 O.K.** **3 Too full**

4. Pull the dipstick out and look at the oil level while holding a rag under the end. If it is between the low level mark (**4**) and the full level mark (**5**), it is O.K.

NOTICE

Be careful not to drop engine oil on the vehicle components.



If the oil level is below or only slightly above the low mark, add engine oil of the same type as already in the engine.

Remove the oil filler cap and add engine oil a little at a time, checking the dipstick. We recommend that you use a funnel when adding oil. The approximate quantity of oil needed to raise the level between low mark and full mark on the dipstick is indicated as follows:

1.5 L (1.6 qt., 1.3 Imp. qt.)

For the engine oil capacity, see "Specifications" on page 534.

When the level reaches within the correct range, return the filler cap and turn the cap clockwise until you hear a click.

NOTICE

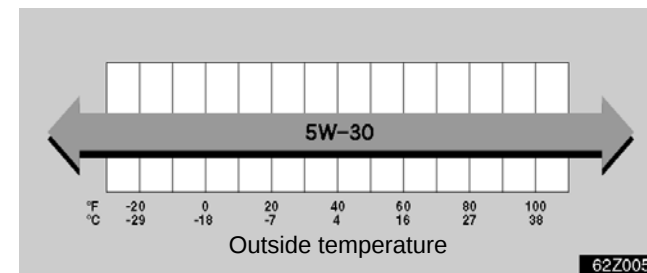
- ***Be careful not to spill engine oil on the vehicle components.***
- ***Avoid overfilling, or the engine could be damaged. Check the oil level on the dipstick once again after adding the oil.***

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 5W-30



SAE 5W-30 is the best choice for good fuel economy and good starting in cold weather.

If SAE 5W-30 is not available, SAE 10W-30 may be used. However, it should be replaced with SAE 5W-30 at the next oil change.

HYBRID SYSTEM

Oil identification mark



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.

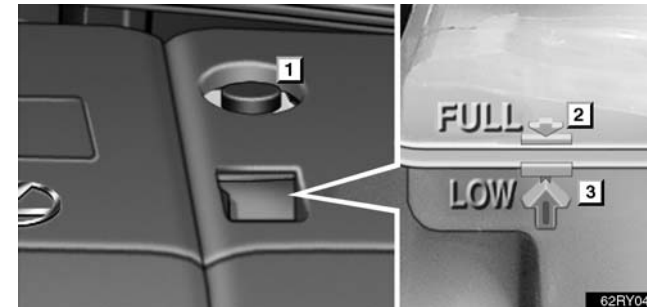
To ensure excellent lubrication performance for your engine, "Toyota Genuine Motor Oil" is available, which has been specifically tested and approved for all Lexus engines.

Please contact your Lexus dealer for further details about "Toyota Genuine Motor Oil".

CHECKING THE COOLANT LEVEL

► **Engine coolant reservoir**

- 1 Reservoir cap
- 2 "FULL" (upper) line
- 3 "LOW" (lower) line

► **Inverter coolant reservoir**

- 1 Reservoir cap
- 2 "FULL" (upper) line
- 3 "LOW" (lower) line

Look at the see-through coolant reservoir when the hybrid system is cold. The coolant level is satisfactory if it is between the "FULL" and "LOW" lines on the reservoir. If the level is low, add the coolant. (For the coolant type, see "Coolant type selection" described below.)

The coolant level in the reservoir will vary with temperature of the hybrid system. However, if the level is on or below the "LOW" line, add coolant. Bring the level up to the "FULL" line.

HYBRID SYSTEM

If the coolant level drops within a short time after replenishing, there may be a leak in the system. Visually check the radiator, hoses, reservoir cap, radiator cap and drain cock and water pump.

If you can find no leak, have your Lexus dealer test the radiator cap pressure and check for leaks in the cooling system.



CAUTION

To prevent burning yourself, do not remove the radiator cap when the coolant may be hot after driving.

Coolant type selection

Use of improper coolants may damage your cooling system.

Only use “Toyota Super Long Life Coolant” or similar high quality ethylene glycol based non-silicate, non-amine, non-nitrite, and non-borate coolant with long-life hybrid organic acid technology. (Coolant with long-life hybrid organic acid technology is a combination of low phosphates and organic acids.)

For the U.S.A. — “Toyota Super Long Life Coolant” is a mixture of 50% coolant and 50% deionized water. This coolant provides protection down to about -35°C (-31°F).

For Canada — “Toyota Super Long Life Coolant” is a mixture of 55% coolant and 45% deionized water. This coolant provides protection down to about -42°C (-44°F).

NOTICE

Do not use plain water alone.

Lexus recommends “Toyota Super Long Life Coolant”, which has been tested to ensure that it will not cause corrosion nor result in malfunction of your cooling system with proper usage. “Toyota Super Long Life Coolant” is formulated with long-life hybrid organic acid technology and has been specifically designed to avoid the cooling system malfunction on Lexus vehicles.

Please contact your Lexus dealer for further details.

CHECKING THE RADIATORS AND CONDENSER

If any of the above parts are extremely dirty or you are not sure of their condition, take your vehicle to a Lexus dealer.

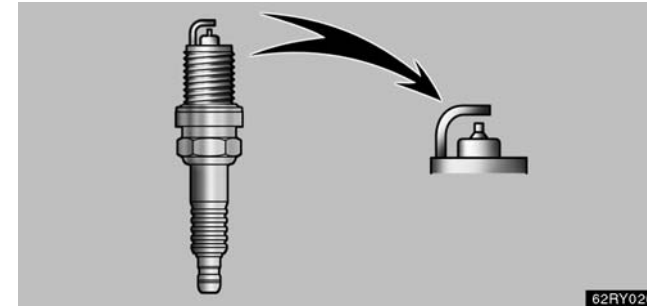
CAUTION

To prevent burning yourself, be careful not to touch the radiator or condenser when they may be hot after driving.

NOTICE

To prevent damage to the radiators and condenser, do not perform the work by yourself.

SPARK PLUGS



Your engine is fitted with iridium-tipped spark plugs.

NOTICE

Use only iridium-tipped spark plugs and do not adjust gaps for your engine performance and smooth drivability.

SECTION 6 – 3

SERVICE PROCEDURES AND SPECIFICATIONS

Chassis

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CHASSIS

SPECIFICATIONS

— TRANSAXLE

Fluid capacity Drain and refill Front With towing package Without towing package Rear (all wheel drive models only)	4.2 L (4.4 qt., 3.7 Imp.qt.) 3.9 L (4.1 qt., 3.4 Imp.qt.) 2.0 L (2.1 qt., 1.8 Imp.qt.)
Fluid type	Toyota Genuine ATF WS*

* Change transmission fluid only as necessary. Generally, it is necessary to change transmission fluid only if your vehicle is driven under one of the Special Operating Conditions listed in your "Owner's Manual Supplement / Scheduled Maintenance". When changing the transmission fluid, use only "Toyota Genuine ATF WS" (ATF JWS3324 or NWS9638) to aid in assuring optimum transaxle performance.

NOTICE

Using transmission fluid other than "Toyota Genuine ATF WS" may ultimately damage the transaxles of your vehicle.

Please contact your Lexus dealer for further details.

CHASSIS

— BRAKES

Pedal clearance	90 mm (3.5 in.) Min. * ¹
Pedal free play	1 — 2 mm (0.039 — 0.079 in.)
Brake pad wear limit	1.0 mm (0.04 in.)
Parking brake lining wear limit	1.0 mm (0.04 in.)
Parking brake adjustment	5 — 7 clicks * ²
Fluid type	SAE J1703 or FMVSS No. 116 DOT 3

*¹: Minimum pedal clearance when depressed with the pressure of 500 N (51 kgf, 112 lbf) with the hybrid system on

*²: Parking brake adjustment when depressed with the pressure of 300 N (31 kgf, 67 lbf)

— STEERING

Wheel free play	Less than 30 mm (1.2 in.)
-----------------	---------------------------

CHASSIS

— TIRES AND WHEELS (type A)

Tire size	225/65R17 101S
Tire inflation pressure Recommended cold tire inflation pressure	Front 220 kPa (2.2 kgf/cm ² or bar, 32 psi) Rear 220 kPa (2.2 kgf/cm ² or bar, 32 psi) Spare 220 kPa (2.2 kgf/cm ² or bar, 32 psi)
Wheel size	17 × 6 1/2 J
Wheel nut torque	103 N·m (10.5 kgf·m, 76 ft·lbf)

NOTE:

For complete information on tires (e.g. replacing tires or replacing wheels), see “Checking tire inflation pressure” through “Aluminum wheel precautions” on pages 556 through 578.

— TIRES AND WHEELS (type B)

Tire size	P235/55R18 99V
Tire inflation pressure Recommended cold tire inflation pressure	Front 210 kPa (2.1 kgf/cm ² or bar, 30 psi) Rear 210 kPa (2.1 kgf/cm ² or bar, 30 psi) Spare 210 kPa (2.1 kgf/cm ² or bar, 30 psi)
Wheel size	18 x 7 J
Wheel nut torque	103 N·m (10.5 kgf·m, 76 ft·lbf)

NOTE:

For complete information on tires (e.g. replacing tires or replacing wheels), see “Checking tire inflation pressure” through “Aluminum wheel precautions” on pages 556 through 578.

CHECKING BRAKE FLUID



- ▶ **1** "MAX" (maximum) line
- 2** "MIN" (minimum) line

To check the fluid level, simply look at the see-through reservoir. The level should be between the "MAX" and "MIN" lines on the tank.

It is normal for the brake fluid level to go down slightly as the brake pads wear.

If the level is low, take your vehicle to a Lexus dealer as soon as possible. Do not drive your vehicle if the red brake system warning light is on. Call a Lexus dealer for assistance.

If the fluid level goes down soon after your vehicle is serviced, it may indicate a serious mechanical problem. Have your vehicle checked by a Lexus dealer.



CAUTION

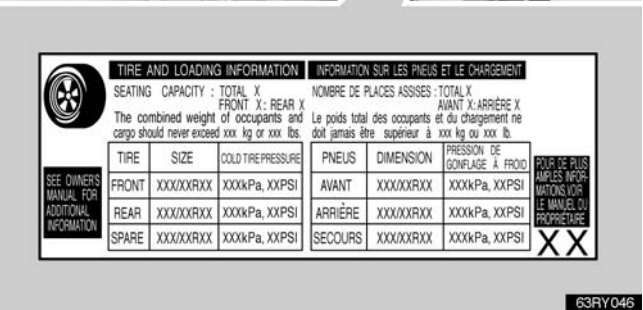
Brake fluid can harm your hands or eyes. If fluid gets on your hands or in your eyes, flush the affected area with clean water immediately. If you still feel uncomfortable with your hands or eyes, go to the doctor.

NOTICE

If the brake fluid is spilled on the vehicle, be sure to wipe it off to prevent damage to parts or paint.

CHASSIS

CHECKING TIRE INFLATION PRESSURE



TIRE AND LOADING INFORMATION **INFORMATION SUR LES PNEUS ET LE CHARGEMENT**

SEATING CAPACITY : TOTAL X
FRONT X; REAR Y
The combined weight of occupants and cargo should never exceed xxx kg or xxx lbs.

NOMBRE DE PLACES ASSISES : TOTAL X
AVANT X; ARRIERE Y
Le poids total des occupants et du chargement ne doit jamais être supérieur à xxx kg ou xxx lb.

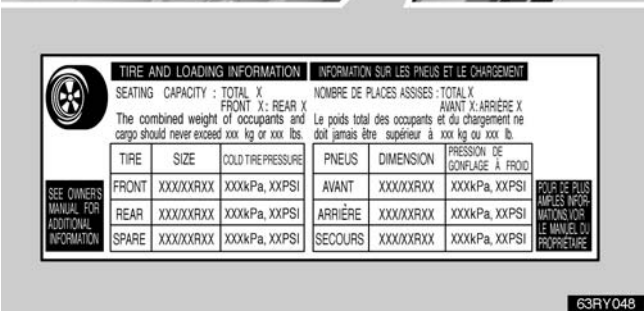
TIRE	SIZE	COLD TIRE PRESSURE	PNEUS	DIMENSION	PRESSION DE GONFLAGE A FROID
FRONT	XXXXXXRXX	XXXkPa, XXPSI	AVANT	XXXXXXRXX	XXXkPa, XXPSI
REAR	XXXXXXRXX	XXXkPa, XXPSI	ARRIERE	XXXXXXRXX	XXXkPa, XXPSI
SPARE	XXXXXXRXX	XXXkPa, XXPSI	SECOURS	XXXXXXRXX	XXXkPa, XXPSI

SEE OWNERS MANUAL FOR ADDITIONAL INFORMATION

POUR DE PLUS AMPLES INFORMATIONS VOIR LE MANUEL DU PROPRIETAIRE

63RY046

► Type A



TIRE AND LOADING INFORMATION **INFORMATION SUR LES PNEUS ET LE CHARGEMENT**

SEATING CAPACITY : TOTAL X
FRONT X; REAR Y
The combined weight of occupants and cargo should never exceed xxx kg or xxx lbs.

NOMBRE DE PLACES ASSISES : TOTAL X
AVANT X; ARRIERE Y
Le poids total des occupants et du chargement ne doit jamais être supérieur à xxx kg ou xxx lb.

TIRE	SIZE	COLD TIRE PRESSURE	PNEUS	DIMENSION	PRESSION DE GONFLAGE A FROID
FRONT	XXXXXXRXX	XXXkPa, XXPSI	AVANT	XXXXXXRXX	XXXkPa, XXPSI
REAR	XXXXXXRXX	XXXkPa, XXPSI	ARRIERE	XXXXXXRXX	XXXkPa, XXPSI
SPARE	XXXXXXRXX	XXXkPa, XXPSI	SECOURS	XXXXXXRXX	XXXkPa, XXPSI

SEE OWNERS MANUAL FOR ADDITIONAL INFORMATION

POUR DE PLUS AMPLES INFORMATIONS VOIR LE MANUEL DU PROPRIETAIRE

63RY045

► Type B

The recommended cold tire inflation pressures, tire sizes and the combined weight of occupants and cargo (vehicle capacity weight) are described on pages 554 and 600. They are also described on the tire and loading information label as shown.

You should check the tire inflation pressure every two weeks, or at least once a month. And do not forget the spare!

The following instructions for checking tire inflation pressure should be observed:

- **The pressure should be checked only when the tires are cold.** If your vehicle has been parked for at least 3 hours and has not been driven for more than 1.5 km or 1 mile since, you will get an accurate cold tire inflation pressure reading.
- **Always use a tire pressure gauge.** The appearance of a tire can be misleading. Besides, tire inflation pressures that are even just a few pounds off can degrade handling and ride.
- **Do not bleed or reduce tire inflation pressure after driving.** It is normal for the tire inflation pressure to be higher after driving.
- **Never exceed the vehicle capacity weight.** Passengers and luggage weight should be located so that the vehicle is balanced.

Inspection and adjustment procedure



- **1 Tire valve**
- **2 Tire pressure gauge**

1. Remove the tire valve cap.
2. Press the tip of the tire pressure gauge to the tire valve.
3. Read the pressure using the graduations of the gauge.
4. In case the tire inflation pressure is not within the prescribed range, insert the compressed air from the valve. In case of applying too much air, press the center of the valve and release the air to adjust.

CHASSIS

5. After completing the tire inflation pressure measurement and adjustment, apply soapy water to the valve and check for leakage.

6. Install the tire valve cap.

If a gauge and air pump are not available, have your vehicle checked by your Lexus dealer.



CAUTION

Be sure to reinstall the tire valve caps. Without the valve caps, dirt or moisture could get into the valve core and cause air leakage. If the caps have been lost, have new ones put on as soon as possible.

Incorrect tire inflation pressure may waste fuel, reduce the comfort of driving, reduce tire life and make your vehicle less safe to drive.

If a tire frequently needs refilling, have it checked by your Lexus dealer.



CAUTION

Keep your tires properly inflated. Otherwise, the following conditions may occur and cause an accident resulting in death or serious injuries.

Low tire pressure (underinflation) —

- Excessive wear
- Uneven wear
- Poor handling
- Possibility of blowouts from an overheated tire
- Poor sealing of the tire bead
- Wheel deformation and/or tire separation
- A greater possibility of tire damage from road hazards

High tire pressure (overinflation) —

- **Poor handling**
- **Excessive wear**
- **Uneven wear**
- **A greater possibility of tire damage from road hazards**

TIRE INFORMATION

Tire symbols

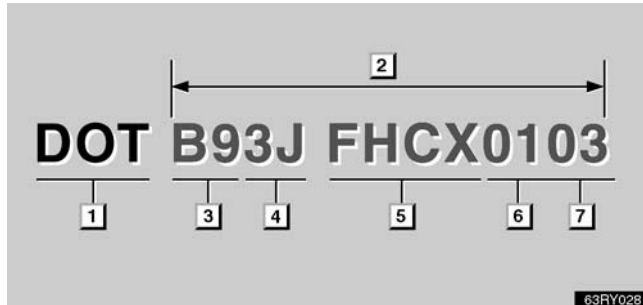


► The illustration indicates typical tire symbols.

-
- 1 Tire size:** For details, see “Tire size” on page 562.
 - 2 DOT and Tire Identification Number (TIN):** For details, see “DOT and Tire Identification Number (TIN)” on page 562.
 - 3 Location of the tread wear indicators:** For details, see “Checking and replacing tires” on page 572.
 - 4 Tire ply composition and materials:** Plies mean a layer of rubber-coated parallel cords. Cords mean the strands forming the plies in the tire.
 - 5 Radial tires or bias-ply tires —** A radial tire has “RADIAL” on the sidewall. A tire not marked with “RADIAL” is a bias-ply tire.
 - 6 “TUBELESS” or “TUBE TYPE”:** A tubeless tire does not have a tube inside the tire and air is directly filled in the tire. A tube type tire has a tube inside the tire and the tube maintains the air pressure.
 - 7 Load limit at maximum cold tire inflation pressure:** For details, see “Checking and replacing tires” on page 572.
 - 8 Maximum cold tire inflation pressure:** This means the pressure to which a tire may be inflated. For details about recommended cold tire inflation pressure, see “Specifications” on page 552.
 - 9 Uniform tire quality grading —** For details, see “Uniform tire quality grading” that follows.
 - 10 Summer tire or all season tire:** An all season tire has “M+S” on the sidewall. The tire not marked with “M+S” is a summer tire. For details, see “Types of tires” on page 570.

CHASSIS

DOT and Tire Identification Number (TIN)

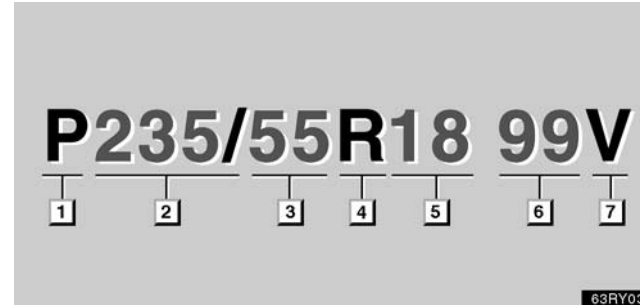


► The illustration indicates typical DOT and Tire Identification Number (TIN).

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

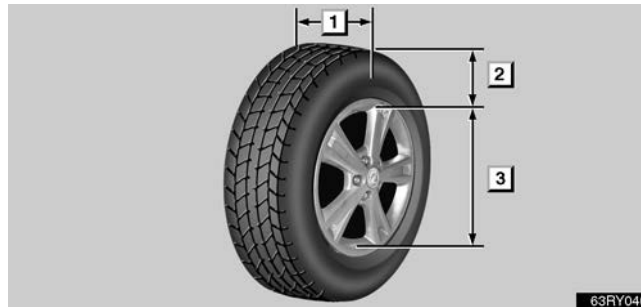
The "DOT" symbol certifies that the tire conforms to applicable Federal Motor Vehicle Safety Standards.

Tire size



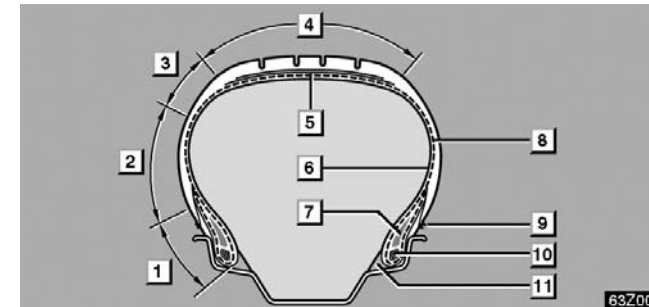
► The illustration indicates typical tire size.

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



- **1** Section width
2 Tire height
3 Wheel diameter

Name of each section of tire



- **1** Bead
2 Sidewall
3 Shoulder
4 Tread
5 Belt
6 Inner liner
7 Reinforcing rubber
8 Carcass
9 Rim lines
10 Bead wires
11 Chafer

CHASSIS

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 ($1 \frac{1}{2}$) times as well on the government course as a tire graded 100. The relative performance of tires depends upon the actual conditions of their use, however, and may depart significantly from the norm due to variations in driving habits, service practices and differences in road characteristics and climate.

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

Warning: The traction grade assigned to this tire is based on braking (straight ahead) traction tests and does not include cornering (turning) traction.

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

Warning: The temperature grades for this tire are established for a tire that is properly inflated and not overloaded. Excessive speed, underinflation, or excessive loading, either separately or in combination, can cause heat buildup and possible tire failure.

CHASSIS

Glossary of tire terminology

Tire related term	Meaning
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)
Cold tire inflation pressure	tire inflation pressure when the vehicle has been parked for at least 3 hours or more, or it has not been driven more than 1.5 km or 1 mile under that condition
Curb weight	the weight of a motor vehicle with standard equipment including the maximum capacity of fuel, oil, and coolant, and, if so equipped, air conditioning and additional weight optional engine
Intended outboard sidewall	(a) the sidewall that contains a whitewall, bears white lettering or bears manufacturer, brand, and/or model name molding that is higher or deeper than the same molding on the other sidewall of the tire, or (b) the outward facing sidewall of an asymmetrical tire that has a particular side that must always face outward when mounted on a vehicle
Maximum inflation pressure	the maximum cold inflation pressure to which a tire may be inflated and it is shown on the sidewall of the tire
Maximum loaded vehicle weight	the sum of — (a) curb weight; (b) accessory weight; (c) vehicle capacity weight; and (d) production options weight

CHASSIS

Tire related term	Meaning
Normal occupant weight	68 kg (150 lb.) times the number of occupants specified in the second column of Table 1 that follows
Occupant distribution	distribution of occupants in a vehicle as specified in the third column of Table 1 that follows
Production options weight	the combined weight of those installed regular production options weighing over 2.3 kg (5 lb.) in excess of those standard items which they replace, not previously considered in curb weight or accessory weight, including heavy duty brakes, ride levelers, roof rack, heavy duty auxiliary battery, and special trim
Recommended inflation pressure	cold tire inflation pressure recommended by a manufacturer
Rim	a metal support for a tire or a tire and tube assembly upon which the tire beads are seated
Rim diameter (Wheel diameter)	nominal diameter of the bead seat
Rim size designation	rim diameter and width
Rim type designation	the industry of manufacturer's designation for a rim by style or code
Rim width	nominal distance between rim flanges

CHASSIS

Tire related term	Meaning
Vehicle capacity weight (Total load capacity)	the rated cargo and luggage load plus 68 kg (150 lb.) 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 the curb weight, accessory weight, and normal occupant weight (distributed in accordance with Table 1 that follows) and dividing by two
Weather side	the surface area of the rim not covered by the inflated tire

Table 1 — Occupant loading and distribution for vehicle normal load for various designated seating capacities

Designated seating capacity, number of occupants	Vehicle normal load, number of occupants	Occupant distribution in a normally loaded vehicle
2 through 4	2	2 in front
5 through 10	3	2 in front, 1 in second seat

CHASSIS

TYPES OF TIRES

Determine what kind of tires your vehicle is originally equipped with.

1. Summer tires

Summer tires are high-speed capability tires best suited to highway driving under dry conditions.

Since summer tires do not have the same traction performance as snow tires, summer tires are inadequate for driving on snow-covered or icy roads. For driving on snow-covered or icy roads, we recommend using snow tires. If installing snow tires, be sure to replace all four tires.

2. All season tires

All season tires are designed to provide better traction in snow and to be adequate for driving in most winter conditions, as well as for use all 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.

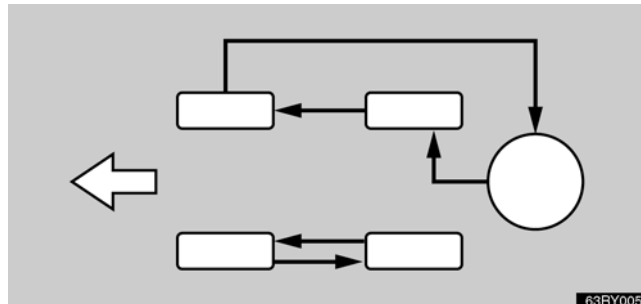
The details about how to distinguish summer tires from all season tires are described on page 560.



CAUTION

- Do not mix summer and all season tires on your vehicle as this can cause dangerous handling characteristics, resulting in loss of control.
- Do not use tires other than the manufacturer's designated tires, and never mix tires or wheels of the sizes different from the originals.

ROTATING TIRES



To equalize the wear and help extend tire life, Lexus recommends that you rotate your tires according to the maintenance schedule. (For scheduled maintenance information, please refer to the “Owner’s Manual Supplement / Scheduled Maintenance”.) However, the most appropriate timing for tire rotation may vary according to your driving habits and road surface conditions.

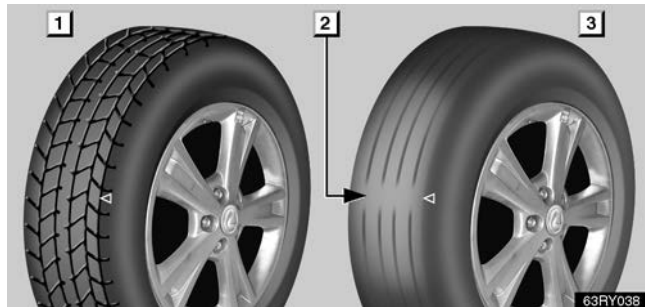
The wheel assemblies must be rotated as illustrated above.

When rotating tires, check for uneven wear and damage. Abnormal wear is usually caused by incorrect tire pressure, improper wheel alignment, out-of balance wheels, or severe braking.

Before storing radial, snow or studded tires, mark the direction of rotation and be sure to install them in the same direction when using them again. Tires should be stored in a cool dry place.

CHECKING AND REPLACING TIRES

When to replace your tires



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

Replace the tires when the tread wear indicators show. The location of tread wear indicators is shown by the marks such as “TWI” or “△” marks, etc., molded on the sidewall of each tire.

The tires on your Lexus have built-in tread wear indicators to help you know when the tires need replacement. When the tread depth wears to 1.6 mm (0.06 in.) or less, the indicators will appear. If you can see the indicators in two or more adjacent grooves, the tire should be replaced.

Depending on driving conditions, your tires may wear more rapidly than those of conventional vehicles.

The effectiveness of snow tires is lost if the tread wears down below 4 mm (0.16 in.).

If you have tire damage such as cuts, splits, cracks deep enough to expose the fabric, or bulges indicating internal damage, the tire should be replaced.

If a tire often goes flat or cannot be properly repaired due to the size or location of a cut or other damage, it should be replaced. If you are not sure, consult with your Lexus dealer.

If air loss occurs while driving, do not continue driving. Driving even a short distance can damage a tire beyond repair.

Any tires which are over 6 years old must be checked by a qualified technician even if damage is not obvious.

Tires deteriorate with age even if they have never or seldom been used.

This applies also to the spare tire and tires stored for future use.

Tire selection

When replacing a tire, use a tire of the same size and construction, and the same or greater maximum load as the originally installed tires. Also, on all wheel drive models, all the tires must be the same brand and have the same tread patterns.

Using any other size or type of tire may seriously affect handling, ride, speedometer/odometer calibration, ground clearance, and clearance between the body and tires or snow chains.

Check that the maximum load of the replaced tire is greater than 1/2 of the Gross Axle Weight Ratings (GAWR) of either the front axle or the rear axle, whichever is greater. As for the maximum load of the tire, see the load limit at maximum cold tire inflation pressure mentioned on the sidewall of the tire, and as for the Gross Axle Weight Ratings (GAWR), see the Certification Label. For details about Certification Label and sidewall of the tire, see pages 520 and 560.



CAUTION

Observe the following instructions. Otherwise, an accident may occur resulting in death or serious injuries.

- Do not mix radial, bias belted, or bias-ply tires on your vehicle, as this may cause dangerous handling characteristics resulting in loss of control.
- Do not use tires other than the manufacturer's recommended size, as this may cause dangerous handling characteristics resulting in loss of control.
- All wheel drive models:
Do not use tires of different brands, sizes, construction or tread patterns, as this may cause dangerous handling characteristics resulting in loss of control.

INSTALLING SNOW TIRES AND CHAINS

When to use snow tires or chains

Snow tires or chains are recommended when driving on snow or ice.

On wet or dry roads, conventional or radial tires provide better traction than snow or studded tires.

Snow tire selection

If you need snow tires, select tires of the same size, construction and load capacity as the originally installed tires. Also, on all wheel drive models, all the tires must be the same brand and have the same tread patterns.

Do not use tires other than stated above. 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.



CAUTION

Observe the following instructions. Otherwise, an accident may occur resulting in death or serious injuries.

- Do not use snow tires other than the manufacturer's recommended size, as this may cause dangerous handling characteristics resulting in loss of control.
- All wheel drive models:
Do not use snow tires of different brands, sizes, construction or tread patterns, as this may cause dangerous handling characteristics resulting in loss of control.

Snow tire installation

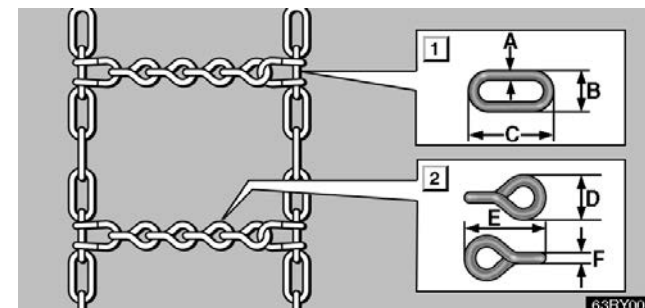
Snow tires should be installed on all wheels.

Installing snow tires on the front wheels only can lead to an excessive difference in road grip capability between the front and rear tires which could cause loss of vehicle control.

CAUTION

- Snow tires should be inflated to the same pressure as the original tires.
- Never drive over 120 km/h (75 mph) with any type of snow tires.

Tire chain selection



► **1 Side chain** **2 Cross chain**

Use the tire chains of correct size.

For 225/65R17 101S or P235/55R18 99V tires, use the following type chains.

	mm	(in.)
A: Diameter of side chain	3.0	(0.12)
B: Width of side chain	10.0	(0.39)
C: Length of side chain	30.0	(1.18)
D: Width of cross chain	14.0	(0.55)
E: Length of cross chain	25.0	(0.98)
F: Diameter of cross chain	4.0	(0.16)

CHASSIS

Regulations regarding the use of tire chains vary according to location or type of road. Always check local regulations before installing chains.

NOTICE

If the wrong combination of tire and chain is used, the chains could damage the vehicle body.

- When driving with chains installed, be sure to drive carefully. Slow down before entering curves to avoid losing control of the vehicle. Otherwise an accident may occur.

Chain installation

Install the chains on the front tires as tightly as possible. Do not use tire chains on the rear tires. Retighten chains after driving 0.5 — 1.0 km (1/4 — 1/2 mile).

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



CAUTION

- Do not exceed 50 km/h (30 mph) or the chain manufacturer's recommended speed limit, whichever is lower.
- Drive carefully avoiding bumps, holes, and sharp turns, which may cause the vehicle to bounce.
- Avoid sharp turns or locked-wheel braking, as use of chains may adversely affect vehicle handling.

REPLACING WHEELS

When to replace your wheels

If you have wheel damage such as bending, cracks or heavy corrosion, the wheel should be replaced.

If you fail to replace a damaged wheel, the tire may slip off the wheel or cause loss of handling control.

Replacement with used wheels is not recommended as they may have been subjected to rough treatment or high mileage and could fail without warning. Also, bent wheels which have been straightened may have hidden structural damage and therefore should not be used. Never use an inner tube in a leaking wheel which is designed for a tubeless tire.

Wheel selection

When replacing wheels, care should be taken to ensure that they are equivalent to those removed in load capacity, diameter, rim width, and offset.

Correct replacement wheels are available at your Lexus dealer.

A wheel of a different size or type may adversely affect handling, wheel and bearing life, brake cooling, speedometer/odometer calibration, stopping ability, headlight aim, bumper height, vehicle ground clearance, and tire or snow chain clearance to the body and chassis.



CAUTION

Observe the following instructions. Otherwise, an accident may occur resulting in death or serious injuries.

- **Do not use wheels other than the manufacturer's recommended size, as this may cause dangerous handling characteristics resulting in loss of control.**
- **All wheel drive models:
Do not use wheels of different brands, sizes and types, as this may cause dangerous handling characteristics resulting in loss of control.**

CHASSIS

ALUMINUM WHEEL PRECAUTIONS

- When installing aluminum wheels, check that the wheel nuts are tight after driving your vehicle the first 1600 km (1000 miles).
- If you have rotated, repaired, or changed your tires, check that the wheel nuts are still tight after driving 1600 km (1000 miles).
- When using tire chains, be careful not to damage the aluminum wheels.
- Use only Lexus wheel nuts and wrench designed for your aluminum wheels.
- When balancing your wheels, use only Lexus balance weights or equivalent and a plastic or rubber hammer.
- As with any wheel, periodically check your aluminum wheels for damage. If damaged, replace immediately.

SUSPENSION AND CHASSIS



CAUTION

Do not modify the suspension/chassis with lift kits, spacers, springs, etc. It can cause dangerous handling characteristics, resulting in loss of control.

SECTION 6 – 4

SERVICE PROCEDURES AND SPECIFICATIONS

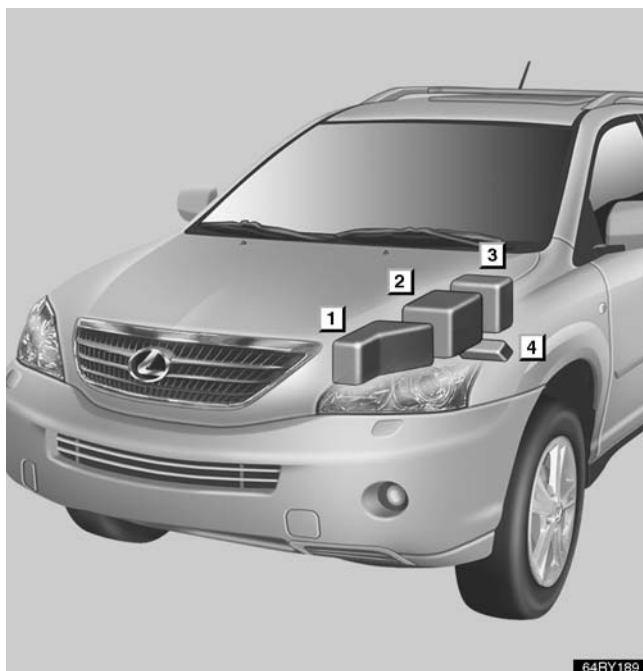
Electrical components

Specifications	580
Checking auxiliary battery condition	585
Auxiliary battery recharging precautions	588
Checking and replacing the blade type fuses	588
Checking the cartridge type fuses	592
Adding washer fluid	593
Checking the headlight aim	594
Replacing light bulbs	595

ELECTRICAL COMPONENTS

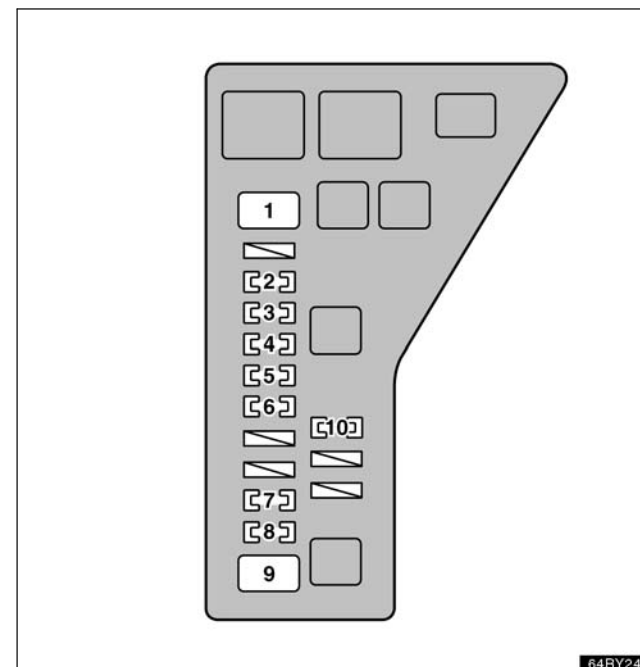
SPECIFICATIONS

— FUSE LOCATIONS



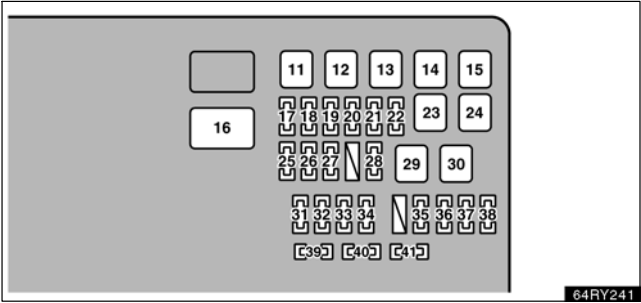
- **1 2 3** *Engine compartment*
- 4** *Driver's side instrument panel*

— FUSES

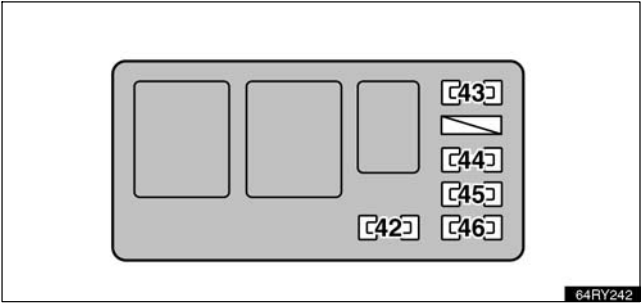


- *Engine compartment*

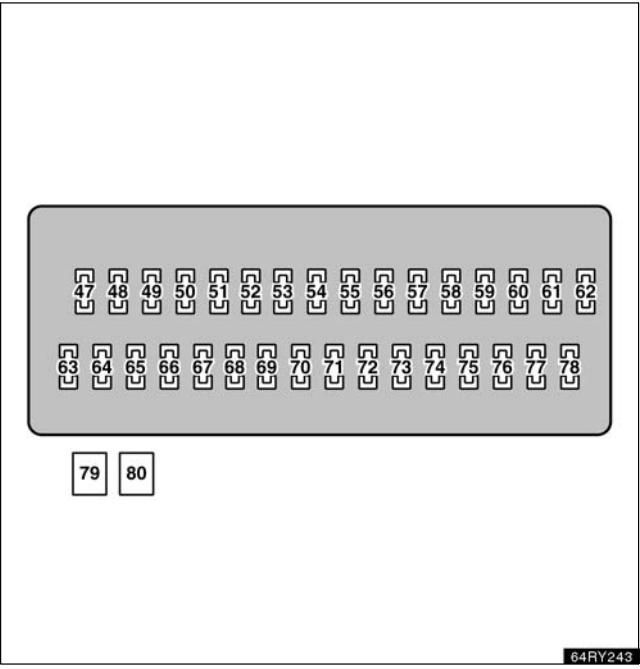
ELECTRICAL COMPONENTS



► Engine compartment



► Engine compartment



► Driver's side instrument panel

ELECTRICAL COMPONENTS

No.	FUSE	AMPERE	CIRCUIT
1	ABS MTR2	30	Electronically controlled brake system
2	ETCS	10	Hybrid system
3	DC/DC-S	10	Hybrid system
4	ABS NO.2	10	Electronically controlled brake system
5	ABS NO.1	10	Electronically controlled brake system
6	BATT FAN	15	Hybrid system
7	ABS NO.3	15	Electronically controlled brake system
8	OIL PUMP	10	Transaxle fluid cooling system
9	ABS MTR1	30	Electronically controlled brake system
10	ST	7.5	Hybrid system
11	HEATER	50	Air conditioning system, "WATER PUMP" fuse
12	IG1	30	"SEAT HTR" fuse
13	H-LP CLN	30	Headlight cleaner
14	RR DEF	40	Rear window defogger
15	RDI FAN NO.1	40	Electric cooling fan
16	DC/DC	120	Hybrid system

No.	FUSE	AMPERE	CIRCUIT
17	DRL	7.5	Daytime running light system
18	H-LP L LWR	15	Left-hand headlight (low beam)
19	H-LP L UPR	15	Left-hand headlight
20	H-LP R UPR	15	Right-hand headlight (high beam)
21	PWR OUTLET NO.2	20	Power outlet (115 VAC)
22	TOWING	30	Trailer lights
23	PBD	30	Power back door
24	RDI FAN NO.2	40	Electric cooling fan
25	HAZ	15	Turn signal lights, emergency flashers
26	MPX-B1	7.5	Electric power steering system
27	AM2 NO.1	30	"GAUGE NO.2", "IGN", "INJ" and "ST" fuses
28	HORN	10	Horns
29	MAIN	40	"H-LP L LWR", "H-LP L UPR", "H-LP R LWR", "H-LP R UPR" and "DRL" fuses
30	IGCT NO.1	50	"INV W/P", "IGCT NO.2", "IGCT NO.3", "IGCT NO.4" and "IGCT NO.5" fuses

ELECTRICAL COMPONENTS

No.	FUSE	AMPERE	CIRCUIT
31	RADIO NO.1	15	Audio system
32	ECU-B NO.1	7.5	Theft deterrent system, air conditioning system, gauges and meters, moonroof, multiplex communication system
33	DOME	7.5	Personal lights, interior lights, vanity lights, ignition switch light, gauges and meters, navigation system
34	ECU-B NO.2	7.5	Wireless remote control
35	AMP	30	Audio system
36	DOOR NO.1	25	Power door lock system
37	A/F	25	Air/fuel control system
38	CRT	7.5	Navigation system screen, rear seat entertainment system
39	H-LP R LWR	15	Right-hand headlight (low beam)
40	INV W/P	15	Hybrid system
41	IGCT NO.5	10	Hybrid system
42	WATER PUMP	10	Air conditioning system

No.	FUSE	AMPERE	CIRCUIT
43	SEAT HTR	20	Seat heaters
44	IGCT NO.2	10	Hybrid system
45	IGCT NO.3	10	Hybrid system, fuel pump
46	IGCT NO.4	10	Emission control system, transaxle control system, air/ fuel control system
47	RR DOOR RH	20	Rear right side power window
48	RR DOOR LH	20	Rear left side power window
49	FUEL OPN	7.5	Fuel filler door opener
50	FR FOG	15	Front fog lights
51	OBD	7.5	On-board diagnosis system
52	FR DEF	25	Windshield wiper de-icer and all components in "MIR HTR" fuse
53	STOP	10	Tail lights, high mounted stoplight, vehicle dynamics integrated management, shift lock control system, multiport fuel injection system/sequential multiport fuel injection system
54	TI&TE	30	Tilt and telescopic steering
55	MPX-B	7.5	Engine immobilizer system

ELECTRICAL COMPONENTS

No.	FUSE	AMPERE	CIRCUIT
56	AM1	7.5	Starter system
57	RR FOG	7.5	No circuit
58	AIR SUS	7.5	No circuit
59	DOOR NO. 2	25	Multiplex communication system
60	S/ROOF	30	Moonroof
61	TAIL	10	Front fog lights, instrument cluster lights, instrument panel lights, front side marker lights, tail lights, license plate lights, towing converter
62	PANEL	7.5	Glove box light, instrument cluster lights, instrument panel lights, console box light, audio system, power outlet, garage door opener switch, transmission system, headlight cleaner, seat heaters, steering switches, power back door
63	ECU-IG NO. 1	7.5	Power rear view mirror control, moonroof, multiplex communication system, shift lock control system, multiplex communication system (power door lock system, wireless remote control system), driving position memory system, vehicle dynamics integrated management, windshield wipers, transmission, seat heaters, power seats, tilt and telescopic steering, power back door

No.	FUSE	AMPERE	CIRCUIT
64	ECU-IG NO. 2	10	Automatic headlight leveling system, vehicle dynamics integrated management, dynamic laser cruise control, headlight cleaner, adaptive front-lighting system
65	HEATER	7.5	Electric cooling fan, air conditioning system, rear window defogger, ignition switch, windshield wiper de-icer
66	WASHER	20	Windshield washer
67	SEAT HTR	20	No circuit
68	GAUGE NO. 1	7.5	Instrument cluster lights, instrument panel lights, emergency flashers, seat belt, power outlet, multiport fuel injection system/sequential multiport fuel injection system, back-up lights
69	FR WIP	30	Windshield wipers
70	RR WIP	15	Rear window wiper
71	INJ	20	Multiport fuel injection system/sequential multiport fuel injection system
72	IGN	10	SRS airbag system, multiport fuel injection system/sequential multiport fuel injection system, front passenger occupant classification system, stop lights, engine immobilizer system

No.	FUSE	AMPERE	CIRCUIT
73	GAUGE NO. 2	7.5	Gauge and meters
74	ECU-ACC	7.5	Navigation system display, power rear view mirror control, shift lock control system, multiplex communication system
75	CIG	15	Power outlet
76	PWR OUTLET NO. 1	15	Power outlet
77	RADIO NO. 2	7.5	Instrument cluster lights, instrument panel lights, navigation system, audio system
78	MIR HTR	10	Outside rear view mirror defogger
79	PWR	30	Power window, multiplex communication system (power door lock system, wireless remote control system), outside rear view mirror
80	P/SEAT	30	Power seats

CHECKING AUXILIARY BATTERY CONDITION

Precautions



CAUTION

AUXILIARY BATTERY PRECAUTIONS

The auxiliary battery produces flammable and explosive hydrogen gas.

- Do not cause a spark by contacting the battery terminals with tools.
- Do not smoke or light a match near the battery.

The electrolyte contains poisonous and corrosive sulfuric acid.

- Avoid contact with eyes, skin or clothes.
- Never inhale or swallow electrolyte.
- Wear protective safety glasses when working near the battery.
- Keep children away from the battery.

EMERGENCY MEASURES

- If electrolyte gets in your eyes, flush your eyes with clean water immediately and get immediate medical attention. If possible, continue to apply water with a sponge or cloth while traveling to the medical office.

ELECTRICAL COMPONENTS

- If electrolyte gets on your skin, thoroughly wash the contacted area. If you feel a pain or burn, get medical attention immediately.
- If electrolyte gets on your clothes, there is a possibility of its soaking through to your skin, so immediately take off the exposed clothing and follow the procedure above, if necessary.
- If you accidentally swallow electrolyte, drink a large quantity of water or milk. Follow with milk of magnesia, beaten raw egg or vegetable oil. Then go immediately for emergency help.

Checking the auxiliary battery exterior

The auxiliary battery is located under the right-hand side engine compartment cover. Before checking the battery, remove the cover. (For details, see “Removing the engine compartment covers” on page 524.)



► **1** Terminals **2** Hold-down clamp

Check the battery for corroded or loose connections, cracks, or loose hold-down clamps.

1. If the battery is corroded, wash it off with a solution of warm water and baking soda. Coat the terminals with grease to prevent further corrosion.
2. If the connections are loose, tighten the clamp bolts — but do not overtighten.
3. Tighten the hold-down clamp only enough to keep the battery firmly in place. Overtightening may damage the battery case.

NOTICE

- *Make sure the hybrid system and all accessories are turned off before performing maintenance.*
- *When checking the battery, remove the ground cable first and reinstall it last.*
- *Be careful not to cause a short circuit with tools.*
- *Take care no solution gets into the battery when washing it.*

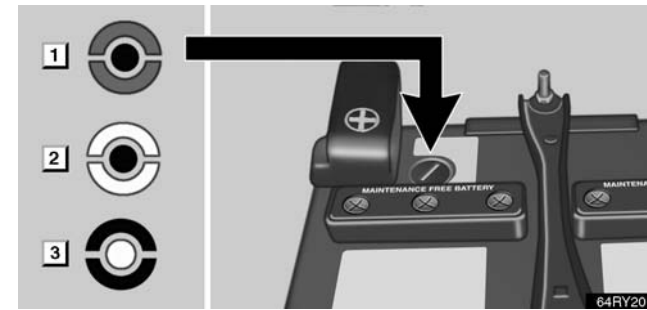
If the auxiliary battery is disconnected or run down

The following functions may not operate correctly when you reconnect or replace the battery. In these cases, you should do the each instructions referring on the following pages.

- Power back door (See page 53.)
- Power windows (See page 79.)
- Moonroof (See page 157.)

Checking the condition of the auxiliary battery

Checking by indicator



Check the battery condition by the indicator color.

- 1 BLUE — Good condition
- 2 WHITE — Charging necessary. Have the battery checked by your Lexus dealer.
- 3 RED — Have the battery checked by your Lexus dealer.

NOTICE

Do not refill the battery with water.

ELECTRICAL COMPONENTS

AUXILIARY BATTERY RECHARGING PRECAUTIONS

During recharging, the battery is producing hydrogen gas.

Therefore, before recharging:

1. If recharging with the battery installed on the vehicle, be sure to disconnect the ground cable.
2. Make sure the power switch on the recharger is off when connecting the charger cables to the battery and when disconnecting them.



CAUTION

- Always charge the battery in an unconfined area. Do not charge the battery in a garage or closed room where there is not sufficient ventilation.
- Only do a slow charge (5 A or less). Charging at a quicker rate is dangerous. The battery may explode causing personal injuries.

NOTICE

Never recharge the battery while the hybrid system is on. Also, be sure all accessories are turned off.

CHECKING AND REPLACING THE BLADE TYPE FUSES

The fuse boxes in the engine compartment are located under the left-hand side engine compartment covers. Before checking the fuses, remove the cover. (For details, see “Removing the engine compartment covers” on page 524.)

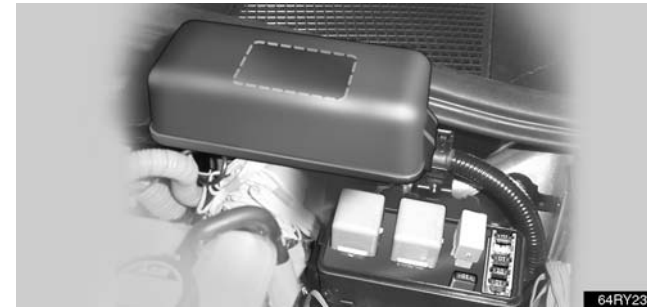


► Engine compartment 1 Pull-out tool 2 Spare fuses

ELECTRICAL COMPONENTS



► *Engine compartment*



► *Engine compartment*

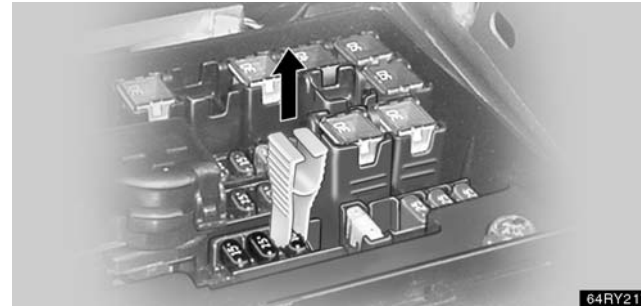


► *Driver's side instrument panel*

ELECTRICAL COMPONENTS

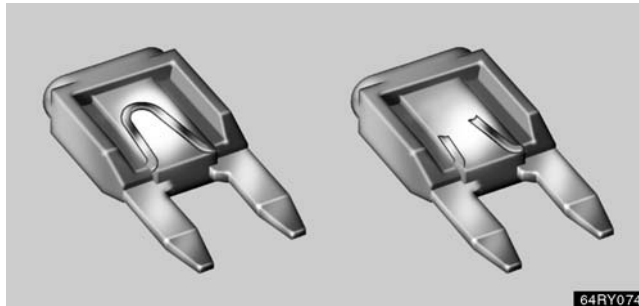
1. Turn the ignition switch off and remove the fuse box lid.

Determine which fuse may be causing the problem. The lid of the fuse box shows the name of the circuit for each fuse.



2. Make sure the inoperative component is turned off. Pull the suspected fuse straight out with the pull-out tool and check it. If it has blown, push a new fuse into the clips.

ELECTRICAL COMPONENTS



► **Good**

► **Blown**

1. Look carefully at the fuse. If the thin wire is broken, the fuse has blown. If you are not sure or if it is too dark to see, try replacing the suspected fuse with one of the same value that you know is good.

2. Only install a fuse with the amperage rating designated on the fuse box lid.

If you do not have a spare fuse, in an emergency you can pull out the "RADIO NO.1", "RADIO NO.2" or "PWR OUTLET NO.1" fuse, which may be dispensable for normal driving, and use it if its amperage rating is the same.

If you cannot use one of the same amperage, use one lower than, but as close to the amperage as possible. If the amperage is lower than that specified, the fuse might blow out again but this does not indicate anything wrong. Be sure to get the correct fuse as soon as possible and return the substitute to its original clips.

It is a good idea to purchase a set of spare fuses and keep them in your vehicle for emergencies.

If the new fuse immediately blows out, there is a problem with the electrical system. Have your Lexus dealer correct it as soon as possible.

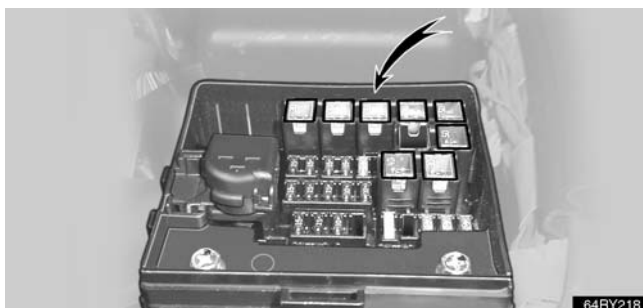


CAUTION

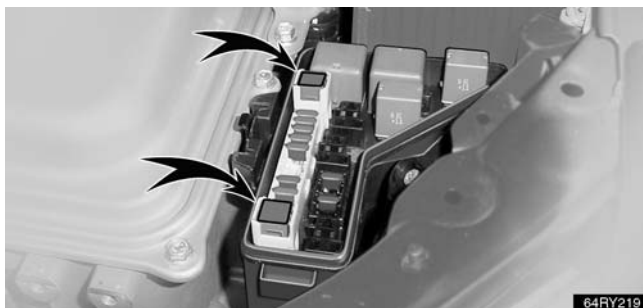
Never use a fuse with a higher amperage rating, or any other object, in place of a fuse. This may cause extensive damage and possibly a fire.

ELECTRICAL COMPONENTS

CHECKING THE CARTRIDGE TYPE FUSES



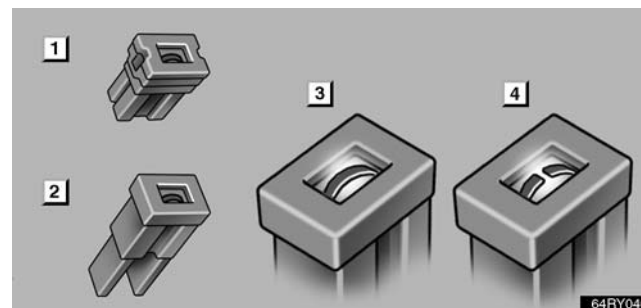
► Engine compartment



► Engine compartment



► Driver's side instrument panel



► 1 Type A 2 Type B 3 Good 4 Blown

If the headlights or other electrical components do not work and the blade type fuses are O.K., check the cartridge type fuses. If any of the cartridge type fuses are blown, they must be replaced.

If there is an overload in the circuits, the fuses are designed to blow before the entire wiring harness is damaged.

 CAUTION

Always use a genuine Lexus fuse or equivalent for replacement. Never install an ordinary wire — even for a temporary fix. This may cause extensive damage and possibly a fire.

NOTICE

Before replacing the fuses, have the cause of electrical overload determined and repaired by your Lexus dealer.

ADDING WASHER FLUID



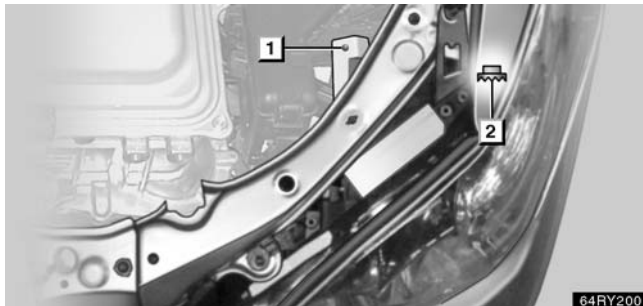
If the washer tank becomes nearly empty, add washer fluid.

You may use plain water as washer fluid. However, in cold areas where temperatures range below the freezing point, use washer fluid containing antifreeze. This product is available at your Lexus dealer and most auto parts stores. Follow the manufacturer's directions for how much to mix with water.

NOTICE

Do not use engine antifreeze or any other substitute because it may damage your vehicle's paint.

CHECKING THE HEADLIGHT AIM (vehicles with discharge headlight)

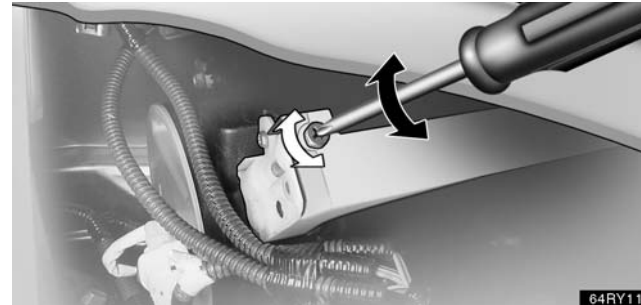


- **1** *Vertical movement adjusting screw*
- 2** *Vertical movement adjusting bolt*

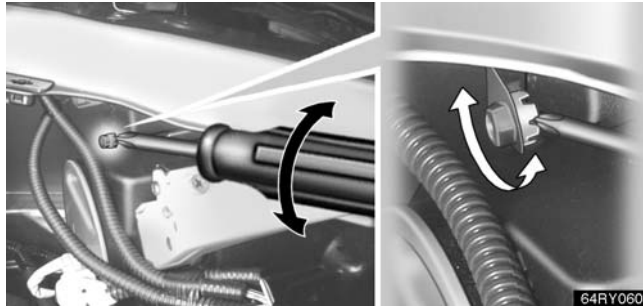
Before checking the headlight aim:

1. Be sure that the body around the headlight is not deformed.
2. Park the vehicle on a level spot.
3. The driver gets into the driver's seat and puts the vehicle in a state readying for a driving (with a full tank).
4. Bounce the vehicle several times.
5. Remove the engine compartment cover. (See "Removing the engine compartment covers" on page 524.)

Adjusting the vertical aiming



1. Turn the Phillips-head screwdriver to either direction in order to turn the vertical movement adjusting screw (**1**). Remember the number of times you turn the screwdriver and the turning direction.



2. When turning the vertical movement adjusting bolt (**2**), turn the Phillips-head screwdriver to the same direction as step 1. To calculate the correct number of turns, multiply the number of times you turned the screwdriver in step 1 by 1.25. Turn the screwdriver by this amount.

REPLACING LIGHT BULBS

Before replacement, remove the engine compartment cover. See “Removing the engine compartment covers” on page 524.

The illustration on the following pages show the locations of light bulbs. If it is necessary to replace a bulb, take your vehicle to your Lexus dealer as soon as possible. Use bulbs with the bulb numbers and wattage ratings given in the table.

The stop lights and tail lights consist of a number of LEDs. If two or more LEDs burn out, your vehicle may not conform to local laws (SAE). If this occurs, take your vehicle to your Lexus dealer to have the light replaced.



CAUTION

- To prevent burning yourself, do not replace the light bulbs while they are hot.
- Halogen bulbs have pressurized gas inside and require special handling. They can burst or shatter if scratched or dropped. Hold a bulb only by its plastic or metal case. Do not touch the glass part of a bulb with bare hands.

Vehicles with power back door system —

- When replacing the rear light bulbs, turn off the power back door system.

ELECTRICAL COMPONENTS

Vehicles with discharge headlights —

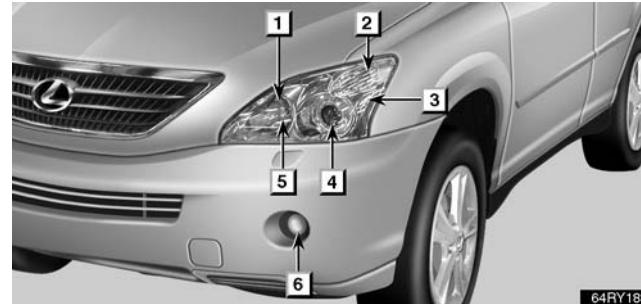
- Do not touch the high voltage socket when the low beam headlight turns on. 20000 V is momentarily generated and may cause severe injury by electric shock.
- Do not disassemble, repair or take apart the low beam headlight bulbs, connector, power supply circuits and rotated components. Or you may be injured by electric shocks. Call your dealer when the headlights fail to work or have to be replaced or disposed of.

NOTICE

Only use a bulb of the listed type.

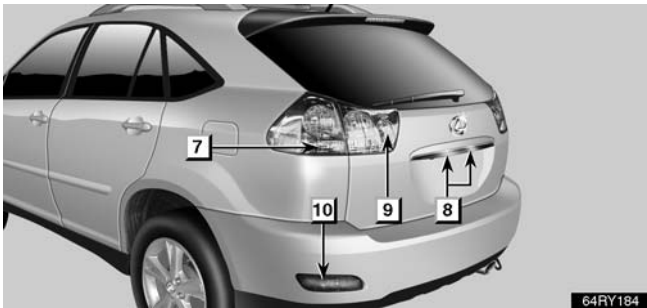
The inside of the lens of exterior lights such as headlights may temporarily fog up when the lens becomes wet in the rain or in a car wash. This is not a problem because the fogging is caused by the temperature difference between the outside and inside of the lens, just like the windshield fogs up in the rain. However, if there is a large drop of water on the inside of the lens, or if there is water pooled inside the light, contact your Lexus dealer.

LIGHT LOCATION

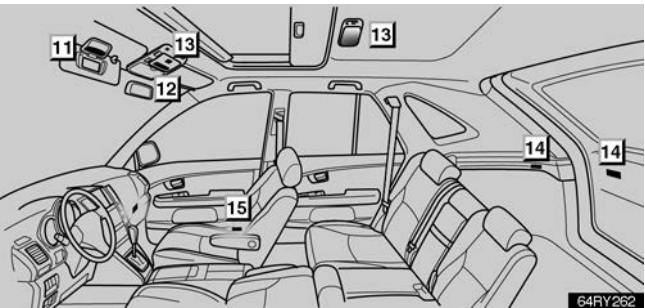


	Light Bulbs	Bulb No.	W	Type
[1]	Parking lights	168	5	E
[2]	Front turn signal lights	---	21	G
[3]	Front side marker lights	168	5	E
[4]	Headlights (low beam)			
	Discharge bulb	---	35	B
	Halogen bulb	---	55	C
[5]	Headlights (high beam)	9005	60	A
[6]	Fog lights	---	55	C

ELECTRICAL COMPONENTS



	Light Bulbs	Bulb No.	W	Type
7	Rear turn signal lights	---	21	G
8	License plate lights	168	5	E
9	Back-up lights	921	18	E
10	Rear side marker lights	194	3.8	E



	Light Bulbs	Bulb No.	W	Type
11	Vanity lights	---	2.8	F
12	Personal lights	---	8	D
13	Interior lights	---	8	F
14	Luggage compartment lights	---	5	F
15	Door courtesy lights	---	5	D

- A: HB3 halogen bulbs
- B: D2S discharge bulbs
- C: H11 halogen bulbs
- D: Single end bulbs
- E: Wedge base bulbs (clear)
- F: Double end bulbs
- G: Wedge base bulbs (amber)

SECTION 6 – 5

SERVICE PROCEDURES AND SPECIFICATIONS

Body

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BODY

SPECIFICATIONS

— DIMENSIONS AND WEIGHTS

Overall length	4755 mm (187.2 in.)
Overall width	1845 mm (72.6 in.)
Overall height* ¹ Front wheel drive models	1680 mm (66.1 in.)* ² 1720 mm (67.7 in.)* ³ 1735 mm (68.3 in.)* ⁴
All wheel drive models	1685 mm (66.3 in.)* ² 1725 mm (67.9 in.)* ³ 1740 mm (68.5 in.)* ⁴

*¹: Unladen vehicle

*²: Without roof rails

*³: With roof rails

*⁴: With roof rails and cross rails

BODY**— DIMENSIONS AND WEIGHTS**

Wheelbase	2715 mm (107 in.)
Tread Front wheel drive models — Front — Rear All wheel drive models — Front — Rear	1575 mm (62.0 in.) 1565 mm (61.6 in.) 1575 mm (62.0 in.) 1555 mm (61.2 in.)
Vehicle capacity weight (occupants + cargo)	420 kg (925 lb.)
Towing capacity (trailer weight + cargo weight) — Without towing package — With towing package	907 kg (2000 lb.) 1588 kg (3500 lb.)

— FUEL TANK

Capacity	65 L (17.2 gal., 14.3 Imp.gal.)
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BODY

PROTECTING YOUR VEHICLE FROM CORROSION

Proper care of your Lexus can help ensure long-term corrosion prevention.

The most common causes of corrosion to your vehicle are:

- The accumulation of road salt, dirt and moisture in hard-to-reach areas under the vehicle.
- Chipping of paint or undercoating caused by minor accidents or by stones and gravel.

The following conditions will cause or accelerate corrosion of your vehicle, so it is important to keep your vehicle, particularly the underside, as clean as possible and to repair any damage to paint or protective coatings as soon as possible.

- The presence of road salt or dust control chemicals, salt in the air near the sea coast, industrial air pollution.
- High humidity, especially at temperatures just above freezing point.
- Certain parts of your vehicle are wet or damp for an extended period of time, even though other parts of the vehicle are dry.
- Components of the vehicle which are prevented from quick-drying due to lack of proper ventilation are exposed to high ambient temperature.

To help prevent corrosion on your Lexus, follow these guidelines:

Keep your vehicle clean by regular washing. In addition, observe the following points.

- If you drive on salted roads in the winter or if you live near the ocean, you should hose off the undercarriage at least once a month to minimize corrosion.
- High pressure water or steam is effective for cleaning the vehicle's underside and wheel housings. Pay particular attention to these areas as it is difficult to see all the mud and dirt. It will do more harm than good to simply wet the mud and debris without removing. The lower edge of doors, rocker panels and frame members have drain holes which should not be allowed to clog with dirt as trapped water in these areas can cause corrosion.
- Wash the underside of the vehicle thoroughly when winter is over.

See "Washing and waxing" on page 603 for more tips.

Check the condition of your vehicle's paint and trim. If you find any chips or scratches in the paint, touch them up immediately to prevent corrosion from starting. If the chips or scratches have gone through the bare metal, have a qualified body shop make the repair.

Check the interior of your vehicle. Water and dirt can accumulate under the floor mats and could cause corrosion. Occasionally check under the mats to make sure the area is dry. Be particularly careful when transporting chemicals, cleansers, fertilizers, salt, etc. These should be transported in proper containers. If a spill or leak should occur, immediately clean and dry the area.

Use mud shields on your wheels. If you drive on salted or gravel roads, mud shields help protect your vehicle. Full-size shields, which come as near to the ground as possible, are the best. We recommend that the fittings and the area where the shields are installed be treated to resist corrosion. Your Lexus dealer will be happy to assist in supplying and installing the shields if they are recommended for your area.

Keep your vehicle in a well ventilated garage or a roofed place. Do not park your vehicle in a damp, poorly ventilated garage. If you wash your vehicle in the garage, or if you drive it covered with water or snow, your garage may be so damp as to cause corrosion. Even if your garage is heated, a wet vehicle can corrode if the ventilation is poor.

WASHING AND WAXING

Your Lexus is a hybrid vehicle. Pay particular attention when washing your Lexus.

NOTICE

Before washing your vehicle, be sure to observe the following in order to avoid the risk of damage to your vehicle.

- ***Do not splash water on the electric components in the engine compartment. This may cause malfunction of the electric components.***
- ***When raising the windshield wipers, raise the wiper on the driver side first. When returning them, do it from the front passenger side.***

Washing your Lexus

Keep your vehicle clean by regular washing.

The following cases may cause weakness to the paint or corrosion to the body and parts. Wash your vehicle as soon as possible.

- When driving in a coastal area
- When driving on a road sprinkled with antifreeze
- When exposed to coal tar, tree sap, bird droppings and carcass of an insect

BODY

- When driving in areas where there is a lot of smoke, soot, dust, iron dust or chemical substances
- When the vehicle becomes remarkably dirty with dust and mud

Hand-washing your Lexus

Work in the shade and wait until the vehicle body is not warm to the touch.

1. Rinse off loose dirt with a hose. Remove any mud or road salt from the underside of the vehicle or the wheel wells.
2. Wash with a mild car-wash soap, mixed according to the manufacturer's instructions. Use a soft cotton mitt and keep it wet by dipping it frequently into the wash water. Do not rub hard — let the soap and water remove the dirt.

Fuel filler door: Do not apply water (high-pressure car wash, for example) at or near the fuel tank inlet with the fuel filler door opened. If the water enters the air vent, you may experience trouble with refueling or rough engine idling.

Plastic wheel ornaments: The plastic wheel ornaments are damaged easily by organic substances. If any organic substances splash an ornament, be sure to wash them off with water and check if the ornament is damaged.

Aluminum wheels: Use only a mild soap or neutral detergent.

Plastic bumpers and side moldings: Wash carefully. Do not scrub with abrasive cleaners. The bumper and side molding faces are soft.

Exterior lights: Wash carefully. Do not use organic substances or scrub them with a hard brush. This may damage the surfaces of the lights.

Road tar: Remove with turpentine or cleaners that are marked safe for painted surfaces.

3. Rinse thoroughly — dried soap can cause streaking. In hot weather you may need to rinse each section right after you wash it.
4. To prevent water spots, dry the vehicle using a clean soft cotton towel. Do not rub or press hard — you might scratch the paint.

NOTICE

- *Do not use organic substances (gasoline, kerosene, benzine or strong solvents), which may be toxic or cause damage.*
- *Do not scrub any part of the vehicle with a hard brush, which may cause damage.*

Automatic car wash**NOTICE**

- *To prevent damage to the antenna, make sure it is removed before driving your vehicle through an automatic car wash.*
- *When your vehicle goes through an automatic car wash, make sure the power back door system is off.*

Your vehicle may be washed in an automatic car wash, but remember that the paint can be scratched by some types of brushes, unfiltered washing water, or the washing process itself. Scratching reduces paint durability and gloss, especially on darker colors. The manager of the car wash should be able to advise you whether the process is safe for the paint on your vehicle.

BODY

Waxing your Lexus

Polishing and waxing is recommended to maintain the original beauty of your Lexus' finish.

Apply may once a month or if the vehicle surface does not repel water well.

1. Always wash and dry the vehicle before you begin waxing, even if you are using a combined cleaner and wax.
2. Use a good quality polish and wax. If the finish has become extremely weathered, use a car-cleaning polish, followed by a separate wax. Carefully follow the manufacturer's instructions and precautions. Be sure to polish and wax the chrome trim as well as the paint.
3. Wax the vehicle again when water does not bead but remains on the surface in large patches.

Windshield washer nozzles: Make sure that the nozzles do not become blocked when waxing. If a nozzle becomes blocked, contact your Lexus dealer to have the vehicle serviced.

NOTICE

If a nozzle becomes blocked, do not try to clear it with a pin or other object. The nozzle will be damaged.

Exterior lights: Do not apply wax on the surfaces of the lights. Wax may cause damage to the lenses. If you accidentally put wax on the light surfaces, wipe or wash it off.

CLEANING THE INTERIOR

CAUTION

- Be careful not to splash water or spill liquid on the floor. This may prevent the side airbags from activating correctly, resulting in serious injury.
- Do not wash the vehicle floor with water, or allow water to get onto the floor when cleaning the vehicle interior or exterior. Water may get into traction battery, audio system components or other electrical components above or under the floor carpet (or mat) and cause a malfunction; and it may cause body corrosion.

Leather-trimmed Interior

The selected leather is used in your Lexus. Due to characteristics of leather products, some parts of leather may be rough, uneven or scratched originally.

To keep good appearance, we recommend you to clean it periodically twice a year.

Remove dirt on the leather in the following ways:

1. Wipe it off lightly using a soft cloth (e.g. gauze) dampened with 5% solution of neutral detergent for wool.
2. Wring water from a clean cloth and thoroughly wipe off all traces of detergent with it.
3. Wipe off the surface of the leather with a dry soft cloth. Allow the leather to dry in a ventilated shaded area. Excess of wet may cause the hardening or shrinking of the leather.

NOTICE

- *Dirt or sand adhered to the leather may damage the treated surface and cause it to wear earlier. Remove dirt or sand using a vacuum cleaner.*
- *If a stain should fail to come out with a neutral detergent, apply a cleaner that does not contain an organic solvent.*
- *Never use organic substances such as benzine, alcohol or gasoline, or alkaline or acid solutions for cleaning the leather as these could cause discoloring.*
- *Use of a nylon brush or synthetic fiber cloth, etc. may scratch the fine grained surface of the leather.*
- *Mildew may develop on soiled leather upholstery. Be especially careful to avoid oil spots. Try to keep your upholstery always clean.*
- *Long exposure to direct sunlight may cause the leather surface to harden and shrink. Keep your vehicle in a shaded area, especially in the summer.*
- *The interior of your vehicle is apt to heat up on hot summer days, so avoid placing on the upholstery items made of vinyl or plastic or containing wax as these tend to stick to leather when warm.*
- *Improper cleaning of the leather upholstery could result in discoloration or staining.*

BODY

Non-leather Trim

The non-leather trim may be easily cleaned with a mild soap or detergent and water.

First vacuum over the upholstery to remove loose dirt. Then, using a sponge or soft cloth, apply the soap solution to the synthetic leather. After allowing it to soak in for a few minutes to loosen the dirt, remove the dirt and wipe off the soap with a clean damp cloth. If all the dirt does not come off, repeat the procedure. Commercial foaming-type cleaners are also available which work well. Follow the manufacturer's instructions.

NOTICE

Do not use solvent, thinner, gasoline or window cleaner on the interior.

Carpets, Windows and Seat Belts

Begin by vacuuming thoroughly to remove as much dirt as possible. Several types of foam cleaners are available; some are in aerosol cans and others are powders or liquids which you mix with water to produce a foam. To shampoo the carpets, use a sponge or brush to apply the foam. Rub in overlapping circles. Do not apply water — the best results are obtained by keeping the carpet as dry as possible. Read the shampoo instructions and follow them closely.

The seat belts may be cleaned with mild soap and water or with lukewarm water.

Use a cloth or sponge. As you are cleaning, check the belts for excessive wear, fraying or cuts.

NOTICE

- *Use a good foam-type shampoo to clean the carpets.*
- *Do not use dye or bleach on the belts — it may weaken them.*
- *Do not use the belts until they become dry.*
- *The windows may be cleaned with any household window cleaner.*
- *Do not apply detergent to or wet the automatic wiper control sensor when cleaning the inside of the windshield.*
- *When cleaning the inside of the rear window, be careful not to scratch or damage the heater wires or connectors.*

Air Conditioning Control Panel, Audio Panel, Instrument Panel, Console Panel, and Switches

Use a soft damp cloth for cleaning.

Soak a clean soft cloth in water or lukewarm water then lightly wipe off any dirt.

NOTICE

- *Do not use organic substances (solvents, kerosene, alcohol, gasoline, etc.) or alkaline or acidic solutions. These chemicals can cause discoloring, staining or peeling of the surface.*
- *If you use cleaners or polishing agents, make sure their ingredients do not include the substances mentioned above.*
- *If you use a liquid car freshener, do not spill the liquid onto the vehicle's interior surfaces. It may contain the ingredients mentioned above. Immediately clean any spill using the method mentioned above.*

If you have any questions about the cleaning of your Lexus, your local Lexus dealer will be pleased to answer them.

SECTION 7

REPORTING SAFETY DEFECTS FOR U.S. OWNERS

Reporting safety defects for U.S. owners

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REPORTING SAFETY DEFECTS

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 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 Toyota Motor Sales, U.S.A., Inc.

To contact NHTSA, you may either call the Auto Safety Hotline toll-free at 1-800-424-9393 (or 366-0123 in Washington, D.C. area) or write to: NHTSA, U.S. Department of Transportation, Washington, D.C. 20590. You can also obtain other information about motor vehicle safety from the Hotline.