

## FOREWORD

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Welcome to the growing group of value-conscious people who drive Lexus vehicles. We are proud of the advanced engineering and quality construction of each vehicle we build.

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 best 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, or you need emergency assistance for any reason, please call the following number:

### **U.S. OWNERS**

- When traveling in the U.S. mainland or Canada:  
**Lexus Roadside Assistance 1-800-25-LEXUS (Toll-Free)**  
**(1-800-255-3987)**
- HAWAII:  
**Lexus Customer Service Assistance 1-800-25-LEXUS (Toll-Free)**  
**(1-800-255-3987)**

**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.**

**TOYOTA MOTOR CORPORATION**

## INTRODUCTION

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### **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 / Maintenance Schedule”.

### **Accessories, spare parts and modification of your Lexus**

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

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

### **Installation of a mobile two–way radio system**

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

### **Scrapping of your Lexus**

The SRS airbag device in your Lexus contains explosive chemicals. If the vehicle is scrapped with the airbags left as they are, it may cause an accident such as a fire. Be sure to have the SRS airbag system removed and disposed of by a qualified service shop or by your Lexus dealer before you scrap your vehicle.

## 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 – 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. Comfort adjustment
7. Theft deterrent

### 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 engine, 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!

### SECTION 4 – IN CASE OF AN EMERGENCY

This section explains what to do in the event of an urgent situation such as the engine 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.

## HOW TO USE THIS MANUAL

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### INDEX

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.

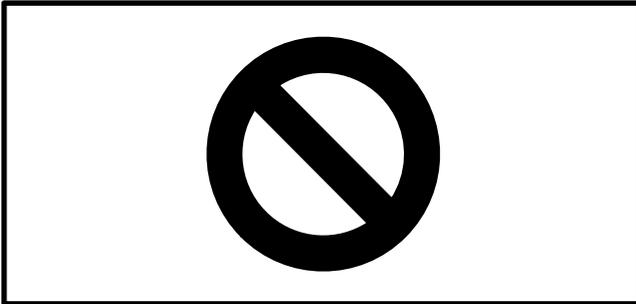
### GAS STATION INFORMATION

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.

### 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".

### Safety and vehicle damage warnings

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



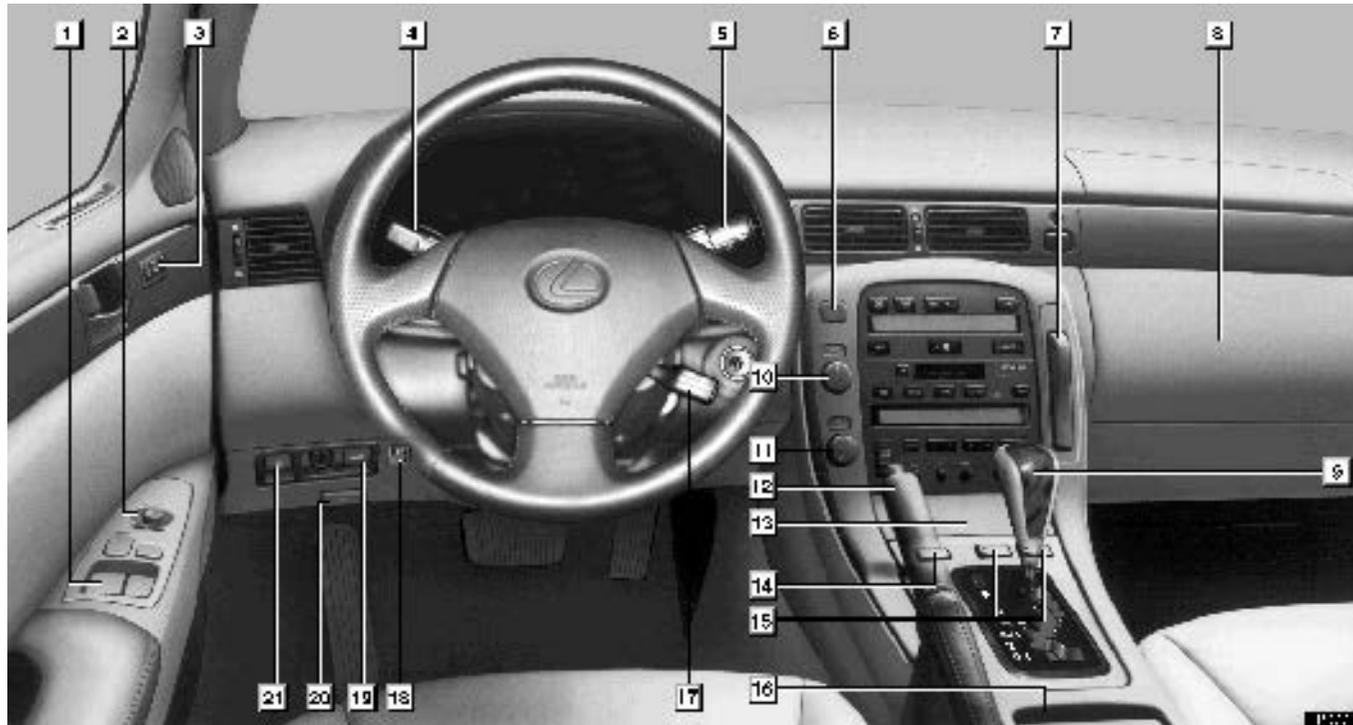
**This is a warning against something which may cause injury to people if the warning is ignored. You are informed what you must or must not do in order to avoid or reduce the risk to yourself and other people.**

### **NOTICE**

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

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 (SC400)**



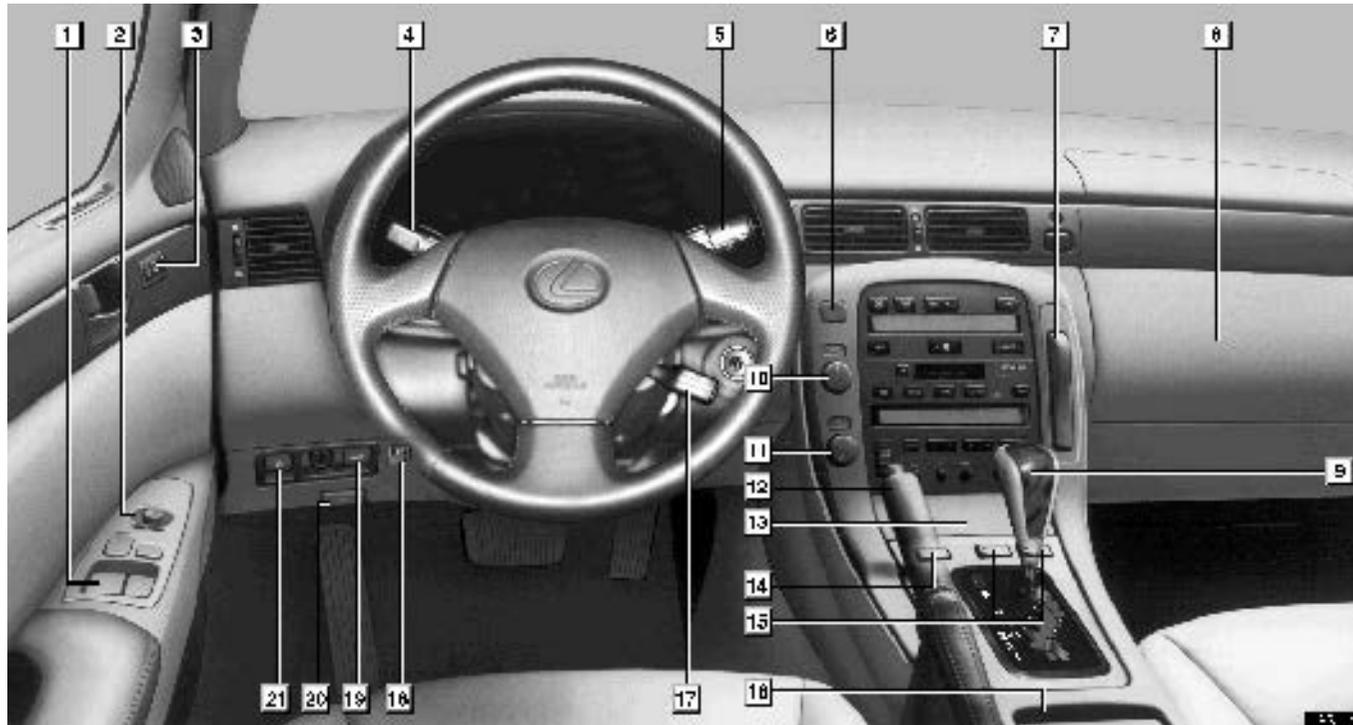
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*For detailed information, refer to the description given in each section.*

**INSTRUMENT PANEL (SC300)**



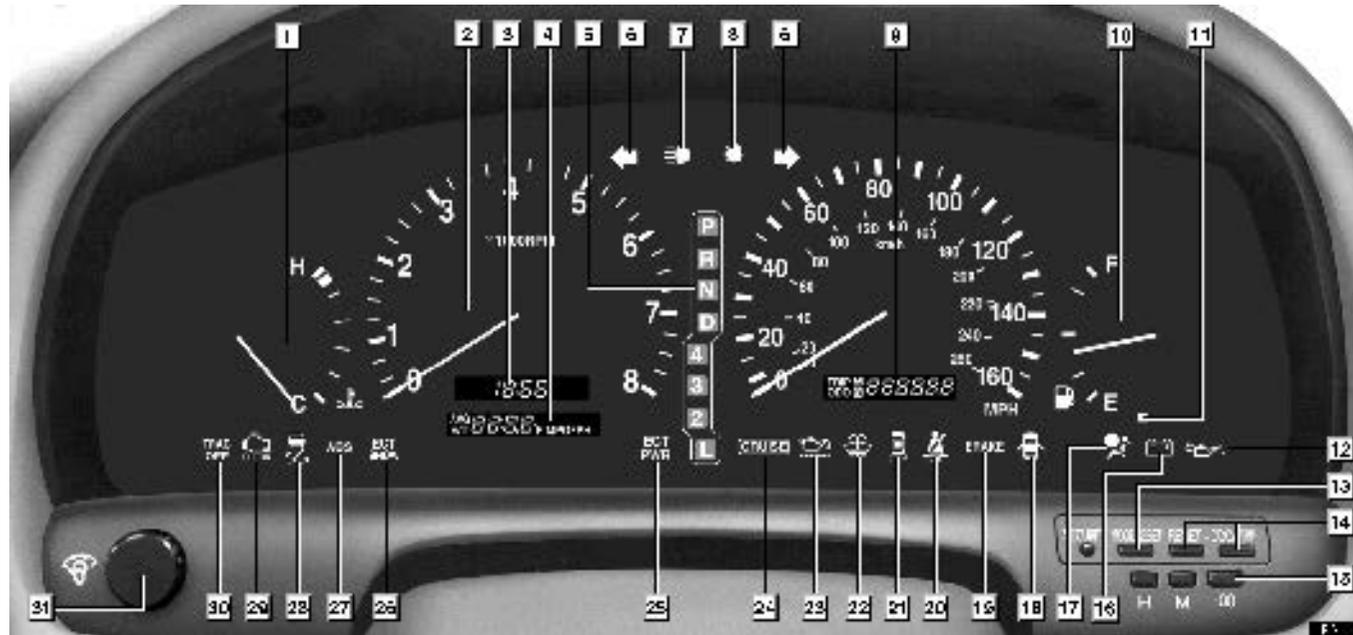
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*For detailed information, refer to the description given in each section.*

### INSTRUMENT CLUSTER (SC400)



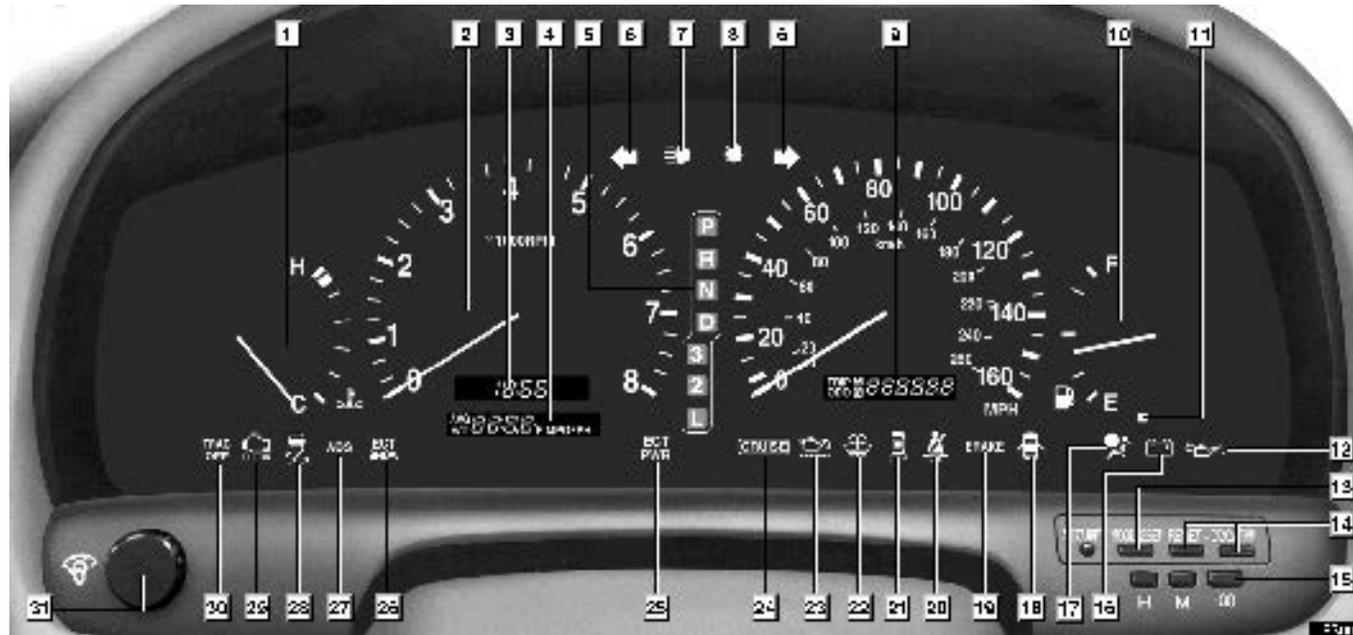
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*For detailed information, refer to the description given in each section.*

### INSTRUMENT CLUSTER (SC300)



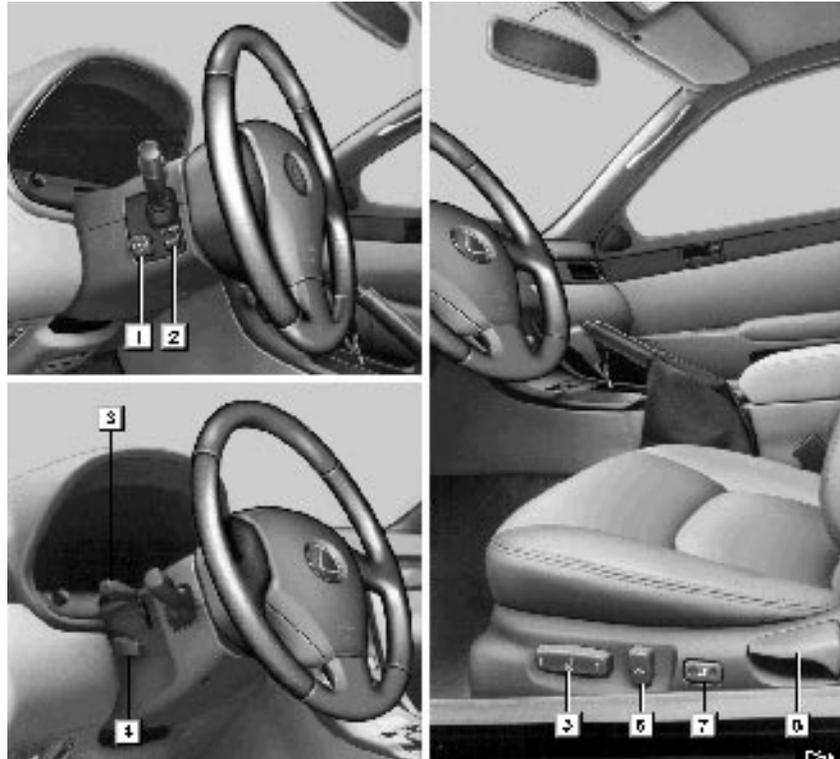
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*For detailed information, refer to the description given in each section.*

**SEAT AND STEERING WHEEL**



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## ***BASIC OPERATION***

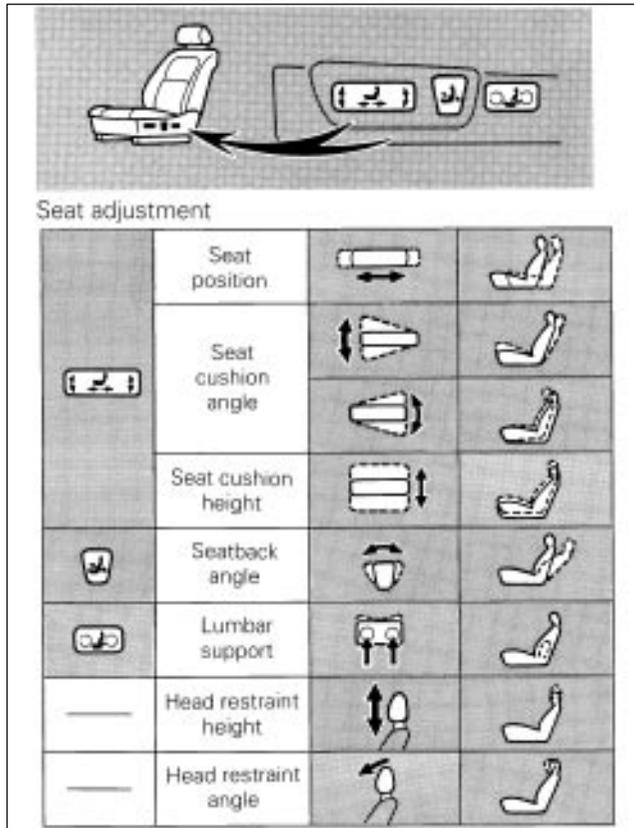
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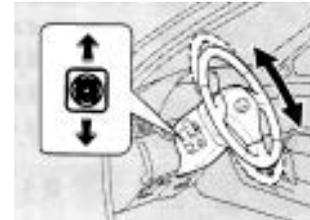
## BASIC OPERATION – QUICK REFERENCE

### 1. DRIVER'S SEAT



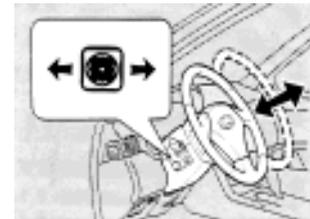
### 2. STEERING WHEEL (Power type)

#### • TILT STEERING WHEEL



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

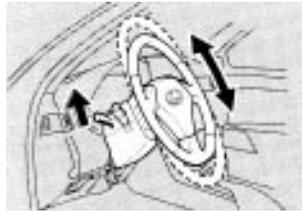
#### • TELESCOPIC STEERING WHEEL



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

### 3. STEERING WHEEL (Manual type)

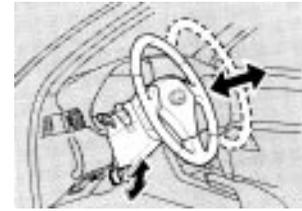
- TILT STEERING WHEEL



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

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

- TELESCOPIC STEERING WHEEL



To move the steering wheel to the desired position:

1. Push the lever down.
2. Push or pull the steering wheel to the desired position.
3. Pull the lever up to lock the steering wheel in position.

## 4. AUTOMATIC TRANSMISSION (SC400)

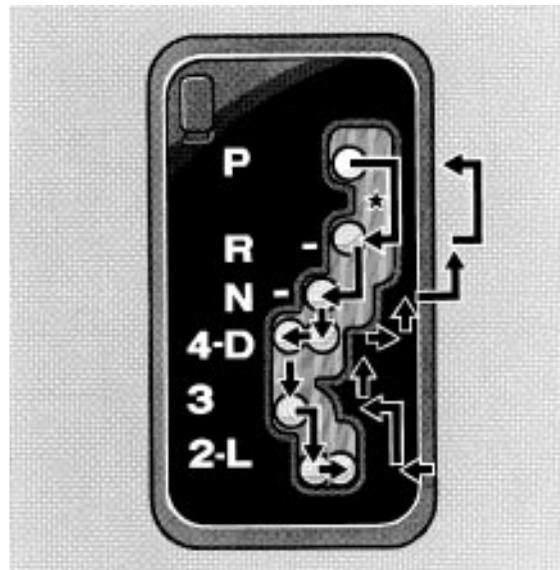


### SELECTOR LEVER POSITION

- P:** Parking, engine starting and key removal position
- R:** Reverse position
- N:** Neutral position
- D:** Normal driving position (Shifting into overdrive possible)
- 4:** Position for engine braking (Shifting into overdrive not possible)\*
- 3, 2:** Position for more powerful engine braking
- L:** Position for maximum engine braking

\*: When the cruise control is being used, even if you downshift from "D" to "4", engine braking will not be applied because the cruise control is not cancelled. For the operation to decrease the vehicle speed, see page 157.

### OPERATION OF SELECTOR LEVER



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

## 5. AUTOMATIC TRANSMISSION (SC300)

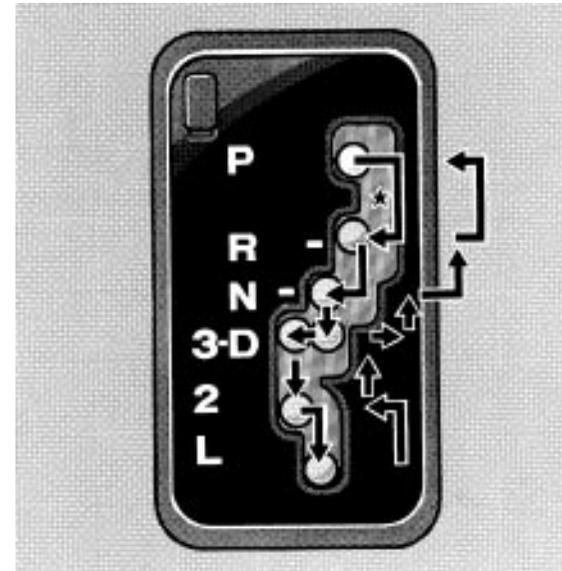


### SELECTOR LEVER POSITION

- P:** Parking, engine starting and key removal position
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\*: When the cruise control is being used, even if you downshift from "D" to "3", engine braking will not be applied because the cruise control is not cancelled. For the operation to decrease the vehicle speed, see page 157.

### OPERATION OF SELECTOR LEVER

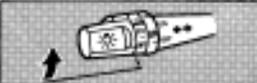


★ Shift while pressing the brake pedal. (Ignition switch must be in the "ON" position.)

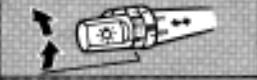
## 6. HEADLIGHT AND TURN SIGNAL SWITCH

### ● HEADLIGHT SWITCH

With the ignition OFF

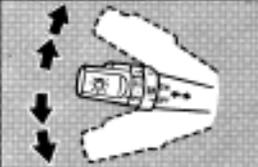
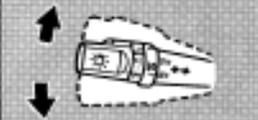
	Parking, tail, license plate, side marker and instrument panel lights turn on.
	Headlights also turn on.
	Automatic light control

With the engine started and parking brake released

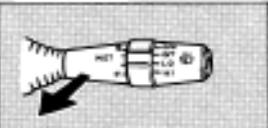
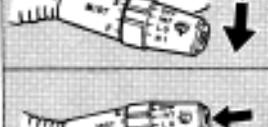
	Parking, tail, license plate, side marker and instrument panel lights turn on.
	Headlights turn on at full intensity.
	Automatic light control

	High beam
	Headlight flasher

### ● TURN SIGNAL SWITCH

	Right or left turn
	Lane change (Right or left)

## 7. WIPER SWITCH

 A diagram of a wiper control stalk with an arrow pointing to the left, indicating mist wiper operation.	Mist wiper operation
 A diagram of a wiper control stalk with a curved arrow around the top, indicating intermittent operation.	Intermittent operation
 A diagram of a wiper control stalk with two downward-pointing arrows, indicating low speed operation.	Low speed operation
 A diagram of a wiper control stalk with three downward-pointing arrows, indicating high speed operation.	High speed operation
 A diagram of a wiper control stalk with an arrow pointing to the right, indicating washer on.	Washer on



# **SECTION 1 - 1**

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## **INSTRUMENTS AND CONTROLS**

### **Keys and doors**

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## KEYS AND DOORS

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### KEYS



**Master key (black) – The master key works in every lock. For your Lexus dealer to make you a new key with built-in transponder chip, your dealer will need it.**

**Sub key (gray) – The sub key will not open the trunk, trunk main switch and the glove box.**

**Key number plate – Keep the plate in a safe place such as your wallet, not in the vehicle.**

A transponder chip for engine immobiliser system has been filled in the head of the master and sub keys. These chips are needed to enable 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 engine.

To protect things locked in the trunk or glove box when you have your vehicle parked, leave the sub key with the attendant.

Since the doors and trunk lid 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 you to write down the key number and keep it in safe place.



Since a transponder chip is not built in this flat key, you cannot start the engine with this key. Use this key to release the lock in case you accidentally lock your keys inside the vehicle or trunk.

Insert your flat key 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.

**NOTICE**

- *Do not let the key case become bent as the key may fall out or become bent also.*
- *The flat key is designed for emergency use only.*

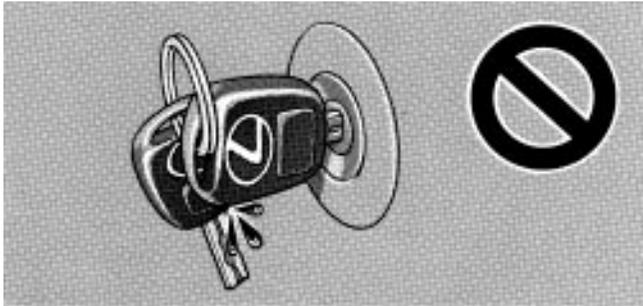


*When using a key containing a transponder chip, observe the following precautions:*

- *When starting the engine, 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. Otherwise the engine may not start, or may stop soon after it starts.*

## KEYS AND DOORS

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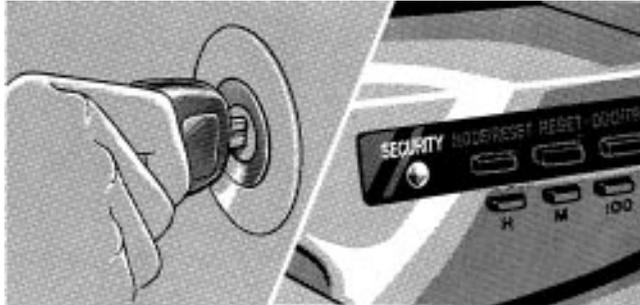


- *When starting the engine, do not use the key with other transponder keys around (including keys of other vehicles) and do not press other key plates against the key grip. Otherwise the engine may not start, or may stop soon after it starts. If this happens, remove the key once and then insert it again after taking off other transponder keys (including keys of other vehicles) from the ring or while gripping or covering them with your hand to start the engine.*



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

## ENGINE IMMOBILISER SYSTEM



**The engine immobiliser 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 engine 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 engine to start.

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. 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 engine.

For vehicles sold in U.S.A.

**FCC ID: MOZ RI-4CTY  
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.



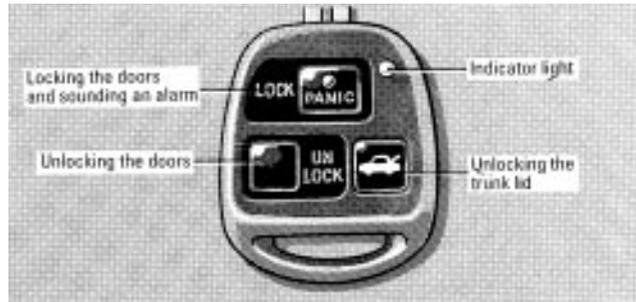
**CAUTION**

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

## KEYS AND DOORS

---

### WIRELESS REMOTE CONTROL



When you operate any button on the key, push it slowly and surely.

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 a 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 17. 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.

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 on 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.

### Locking/Unlocking the doors

**When you push the "LOCK" button on the key briefly, all the doors can be locked from outside the vehicle.**

At this time, some exterior lights flash and you can hear one beep. 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 doors securely or push the "UNLOCK" button. If the key is in the ignition switch, locking cannot be done.

Make sure all the doors are locked when you leave the vehicle. Push the "LOCK" button once again. If they were already locked, some exterior lights will flash.

#### **NOTICE**

***Do not push the "LOCK" button any longer than 2 to 3 seconds. Pushing the button longer activates an alarm. For details, see page 16.***

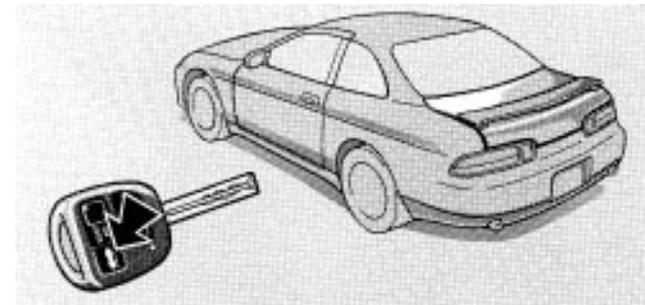
**When you push the "UNLOCK" button, the driver's door is unlocked. Pushing that button once again within 3 seconds from the first push, all other doors are also unlocked.**

At this time, some exterior lights flash and two beeps sound.

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 doors will be automatically locked again.

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

### Unlocking the trunk lid



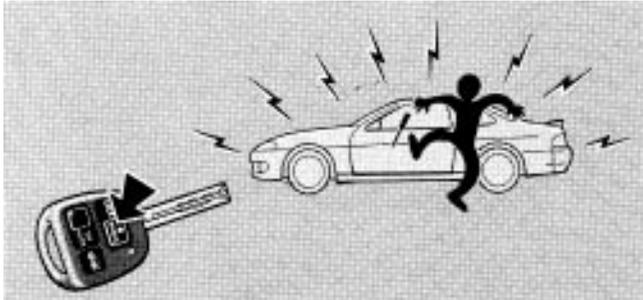
**When you keep the button pushed for about 1 second, you can unlock the trunk lid. One beep sounds.**

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

## KEYS AND DOORS

---

### Sounding an alarm



**When you push the "LOCK" button for about 2 to 3 seconds, 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.

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.



**CAUTION**

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

**Replacing the battery**

When you replace the battery, prepare a lithium battery CR1616 and a special screwdriver.

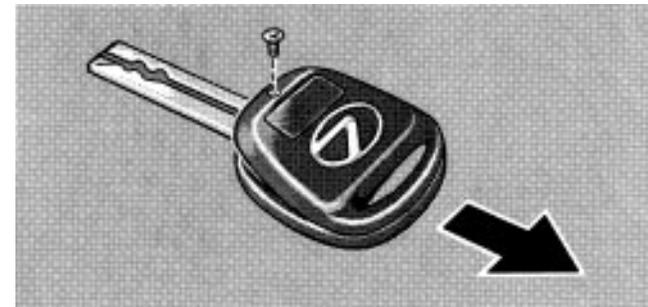


**CAUTION**

Special care should be taken that small children do not swallow the removed battery or components.

**NOTICE**

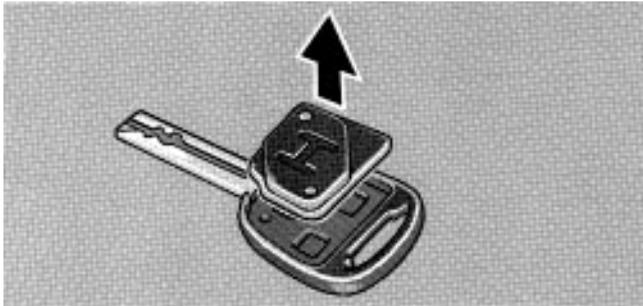
*When replacing the battery, be careful not to lose the components, screws and O-ring.*



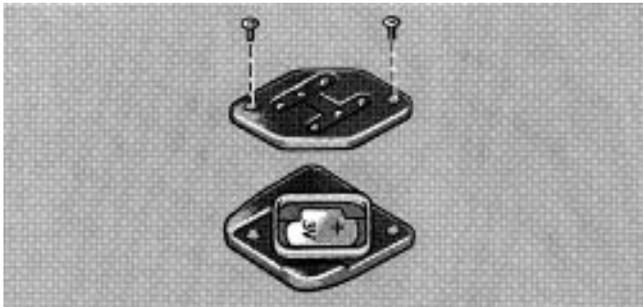
1. Remove the screw, and then the cover while pushing it in the arrow direction.

## KEYS AND DOORS

---



2. Remove the module from the key frame.



3. Remove the 2 screws to take out the lid of the module.

4. Take out the discharged battery and put a new battery with the positive side up.

### NOTICE

- *Make sure the positive side and negative side of the battery should be faced correctly.*
- *Be careful not to bend the electrode of the battery insertion and that dust or oils do not adhere to the inside of the module.*
- *Take care not to lose the screws and O-ring.*

5. Install the lid with the O-ring and 2 screws.

### NOTICE

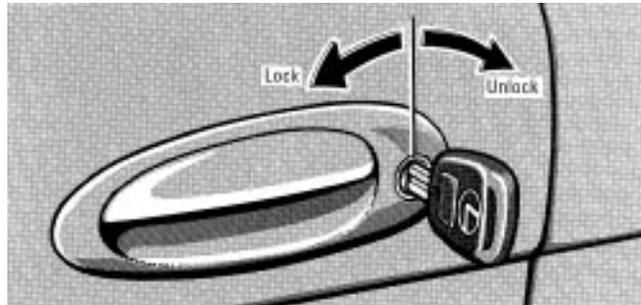
*Take care not to damage or bend the O-ring when installing.*

6. Install the module into the key frame and secure the cover with the screw.

7. When pushing any switch on the wireless key, make sure the indicator light comes on.

## DOORS

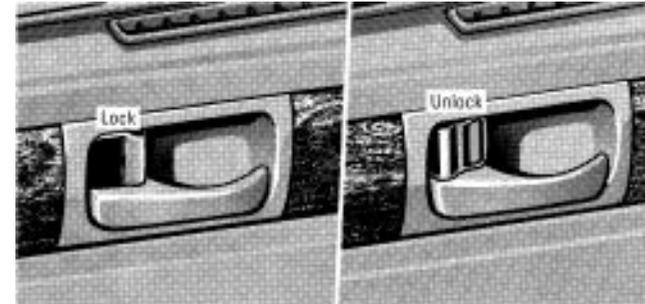
### Locking with key



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

Both side doors lock and unlock simultaneously with either front door. In the driver's door lock, turning the key once will unlock the driver's door and twice in succession will unlock both side doors simultaneously. In the passenger's door lock, turning the key once will unlock both side doors simultaneously.

### Locking with inside lock button



**Push the knob forward to lock and pull the knob backward to unlock.**

When locked, the door cannot be opened with either the outside or inside door handle.

Closing the door with the lock button pushed in will also lock the door. Be careful not to lock your keys in the vehicle. With the key in the ignition switch and the door open, the lock knob cannot be moved in the lock position.



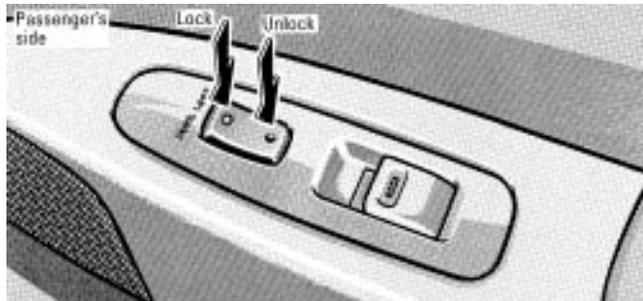
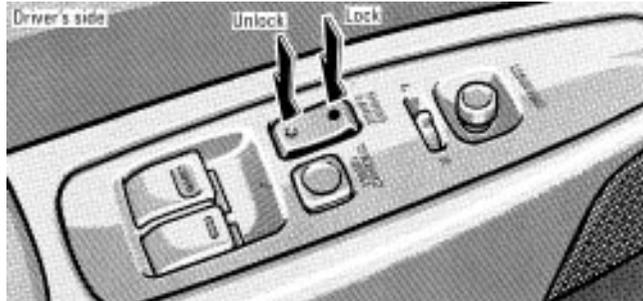
### CAUTION

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

## KEYS AND DOORS

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### Locking with power door lock switch



To lock both side doors simultaneously, push the power door lock switch on the "DOOR LOCK" side. Pushing on the opposite side will unlock them.

# **SECTION 1 - 2**

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## **INSTRUMENTS AND CONTROLS**

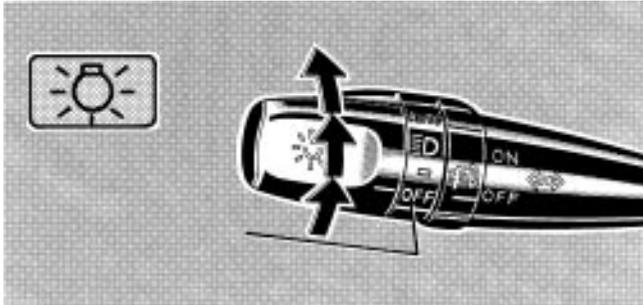
### **Switches**

Headlight switch .....	22
Headlight dimmer and turn signal switch .....	23
Fog light switch .....	24
Windshield wiper and washer switch .....	25
Rear window and outside rear view mirror defogger switch .....	26
Power window switches .....	27
Emergency flasher switch .....	29
Seat heater switches .....	29

## SWITCHES

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### HEADLIGHT SWITCH



**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.

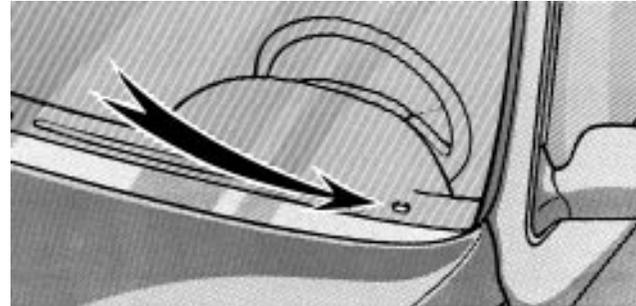
**SECOND CLICKSTOP:** Headlights also turn on.

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

When the headlights are on, the headlight indicator lights up in the instrument cluster.

**Manually twist the knob to the second clickstop to turn on the headlights if they are needed immediately when entering a dark tunnel, parking structure, etc.**

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.



The automatic light control sensor is on 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.

The lights automatically turn off when the driver's door is opened with 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 engine started, 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.

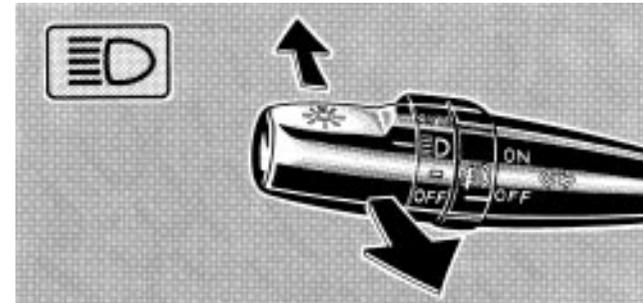
Twist the knob to the second clickstop to turn on the headlights to full intensity for driving at night.

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 battery from being discharged, do not leave the lights on longer than necessary when the engine is not running.***

### HEADLIGHT DIMMER AND TURN SIGNAL SWITCH



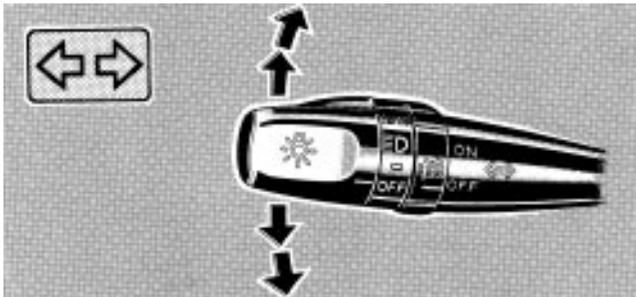
**For high beam, push the lever forward. Pull it back for low beam. For the headlight flasher, pull it further back.**

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.

## SWITCHES

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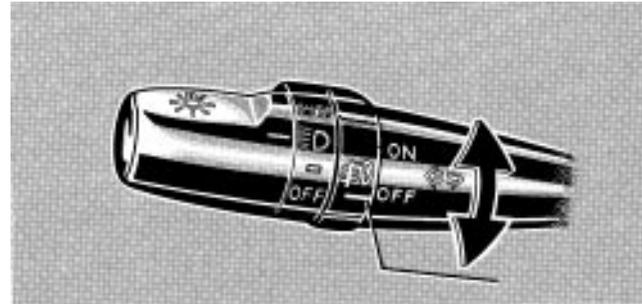
**For signaling turns, move the lever up or down in the conventional manner.**

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.

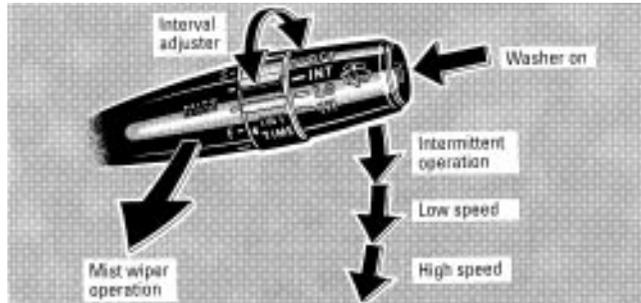
If the green light in the instrument cluster flashes faster than normal, it indicates that the front or rear turn signal bulb has burned out. If this indicator light does not come on, the fuse or the indicator light itself has probably failed.

## FOG LIGHT SWITCH



**To turn on the fog lights, turn the switch to the "ON" position. The fog lights come on only when the headlights are on low beam.**

## WINDSHIELD WIPER AND WASHER SWITCH



**To turn the wipers on, move the lever down. To make the washer squirt, push the button on the end of the lever.**

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

For mist wiper operation (a single wipe), pull the lever toward you and release it.

The interval adjuster lets you adjust the wiping time interval between wiper sweeps if the wiper lever is in the "INT" position. Twist the interval adjuster upward to increase the time between sweeps, and downward to decrease it.

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

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 254.

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

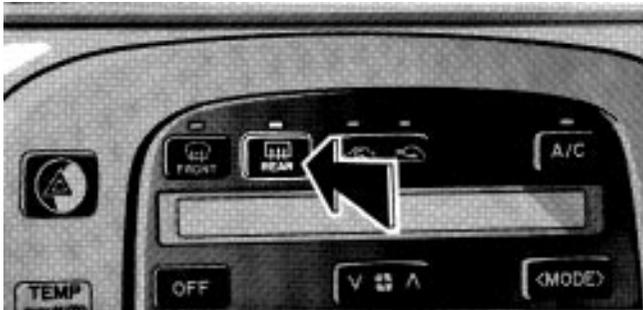
### NOTICE

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

## SWITCHES

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### REAR WINDOW AND OUTSIDE REAR VIEW MIRROR DEFOGGER SWITCH



To turn the electric rear window 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.

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

#### CAUTION

Since the mirror surfaces can get hot, keep your hands off them when the switch is on.

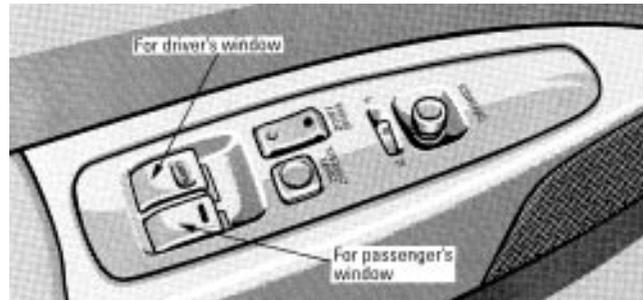
If further defrosting or defogging is desired, simply actuate the switch again. When the surface has cleared, push the switch once again to turn the defogger off. Continuous use may cause the battery to discharge, especially during stop-and-go driving. The defogger is not designed to dry rain water or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

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

#### NOTICE

- *When cleaning the inside of the rear window, be careful not to scratch or damage the heater wires.*
- *To prevent the battery from being discharged, do not operate the defogger continuously longer than necessary.*

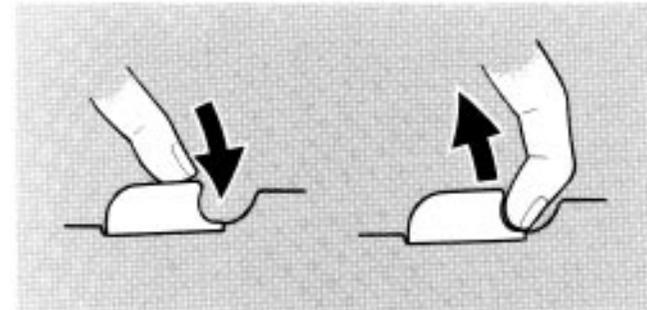
## POWER WINDOW SWITCHES



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

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

**Key off operation:** Even if the ignition key is turned to the "ACC" or "LOCK" position, the window can be operated until any of the doors is opened (or for about 60 seconds).



### Operating the driver's switch

To raise or lower the windows, pull the switch halfway up or push it halfway down.

**Automatic operation:** To fully lower the window automatically, push the switch fully down.

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

### Operating the passenger's switch

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

## SWITCHES

---



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

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

- 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.
- Never leave small children alone in the vehicle, especially with the ignition key still inserted. They could use the power window switches and get trapped in a window. Unattended children can become involved in serious accidents.

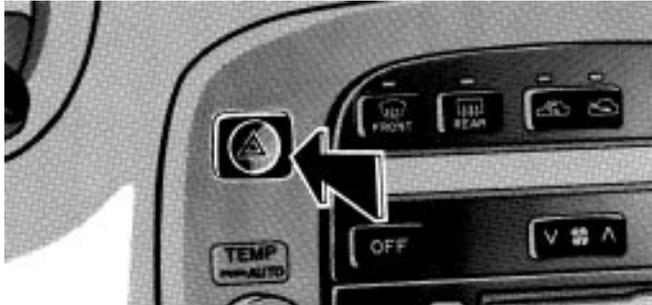


### CAUTION

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

- Always make sure the head, hands and other parts of the body of all occupants are kept completely inside the vehicle before you close the power windows. If someone's neck, head or hands gets caught in a closing window, it could result in a serious injury. When anyone closes the power windows, be sure that they operate the windows safely.

## EMERGENCY FLASHER SWITCH



**To turn on the emergency flashers, push the switch.**

All the turn signal lights will flash. The emergency flashers will work with the engine running 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 battery from being discharged, do not leave the switch on longer than necessary when the engine is not running.***

## SEAT HEATER SWITCHES



**The seat heater has two switches. Push these switches on the left side to turn the respective seat heater on, and push the switches on the right side to turn them off.**

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

## SWITCHES

---



### 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 handicapped persons
- Persons who have delicate 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 battery from being discharged, turn the switches on when the engine is running.*

# **SECTION 1 – 3**

---

## **INSTRUMENTS AND CONTROLS**

### **Gauges, meters and service reminder indicators**

Fuel gauge .....	32
Engine coolant temperature gauge .....	32
Tachometer .....	33
Odometer and trip meter .....	34
Service reminder indicators and warning buzzers .....	34
Cruise information display .....	40
Instrument panel light control .....	42

## GAUGES, METERS AND SERVICE REMINDER INDICATORS

---

### FUEL GAUGE



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

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

This fuel gauge has a non-return type needle which remains at the last indicated position when the ignition switch is turned off.

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

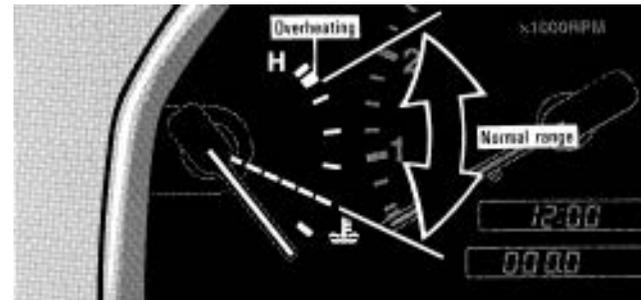
On inclines or curves, due to the movement of fuel in the tank, the fuel gauge needle may fluctuate or the low fuel level warning light may come on earlier than usual.

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



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.

## GAUGES, METERS AND SERVICE REMINDER INDICATORS

- 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 182.*

## TACHOMETER



The tachometer indicates engine speed in thousands of rpm (revolutions per minute). Use it while driving to prevent engine overrevving.

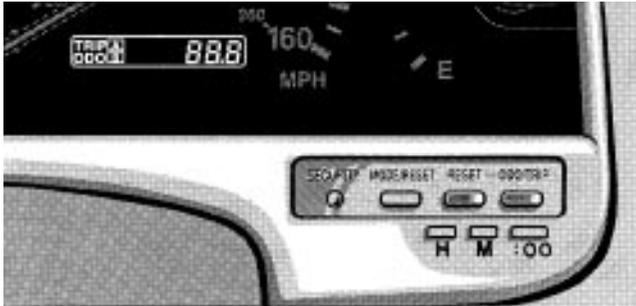
Driving with the engine running too fast causes excessive engine wear and poor fuel economy. Remember, in most cases the slower the engine speed, the greater the fuel economy.

### NOTICE

*Do not let the indicator needle get into the red zone. This may cause severe engine damage.*

**GAUGES, METERS AND SERVICE REMINDER INDICATORS**

**ODOMETER AND TRIP METER**



This meter displays the odometer and two trip meters. To change the mode indication, push the "ODO/TRIP" button. Each time you push the button, the mode changes in order from the odometer to trip meter A to trip meter B, then back to the odometer, etc.

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 set the A trip meter to zero, display the A meter reading, then push the "RESET" button. The same applies for the B trip meter.

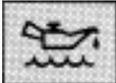
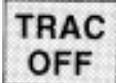
The data of trip meters will be cancelled if the electrical power source is disconnected.

**SERVICE REMINDER INDICATORS AND WARNING BUZZERS**



- (a)  If parking brake is off, stop immediately and contact Lexus dealer.
- (b)  Fasten seat belts.  
(Indicator and buzzer)
- (c)  Take vehicle to Lexus dealer immediately.
- (d)  Stop and check.
- (e)  Stop and check.

## GAUGES, METERS AND SERVICE REMINDER INDICATORS

- |     |   |                               |
|-----|---|-------------------------------|
| (f) |  | Add engine oil.               |
| (g) |  | Take vehicle to Lexus dealer. |
| (h) |  | Take vehicle to Lexus dealer. |
| (i) |  | Close all doors.              |
| (j) |  | Replace bulb.                 |
| (k) |  | Take vehicle to Lexus dealer. |
| (l) |  | Add washer fluid.             |
| (m) | Low fuel level warning light  | Fill up tank.                 |
| (n) | Key reminder buzzer   | Remove key.                   |

### (a) Brake System Warning Light

This light comes on in the following cases when the ignition key is turned on.

- When the parking brake is applied ...
- When the brake fluid level is low ...

**Have your vehicle checked at your Lexus dealer in the following case:**

The light does not come on even if the parking brake is applied with the ignition "ON".

	<b>CAUTION</b>
<p><b>If the light does not go out even after the parking brake is released during the engine running, immediately stop your vehicle at a safe place and contact your Lexus dealer. In this case, the brakes may not work properly and your stopping distance will be longer. Depress the brake pedal firmly.</b></p>	

## GAUGES, METERS AND SERVICE REMINDER INDICATORS

---

### (b) Seat Belt Reminder Light and Buzzer

This light and buzzer remind you to buckle up the driver's seat belt.

Once the ignition key is turned to "ON" or "START", the reminder light flashes and buzzer comes on if the driver's seat belt is not fastened. Unless the driver fastens the belt, the light stays flashing and the buzzer stops after about 4 to 8 seconds.

### (c) SRS Airbag Warning Light

**This indicator comes on when the ignition key is turned to the "ACC" or "ON" position. It goes off after about 6 seconds. This means the SRS airbag system is operating properly.**

The SRS airbag warning light system monitors the airbag sensor assembly, inflators, warning light, interconnecting wiring and power sources.

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

- The light does not come on as described above or remains on.
- The light comes on while driving.

### (d) Discharge Warning Light

This light warns that the battery is being discharged.

If it comes on while you are driving, stop the vehicle, turn off the engine, and check for the cause. Look first at the engine drive belt.

- If it is loose or broken, the generator will not charge the battery properly.
- If the belt is O.K., there is a problem somewhere in the charging system.

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

### **NOTICE**

***Do not continue driving if the engine drive belt is broken or loose.***

### (e) Low Oil Pressure Warning Light

This light warns that the engine oil pressure is too low.

If it flickers or stays on while you are driving, pull off the road to a safe place and stop the engine immediately. Call a Lexus dealer or qualified repair shop for assistance.

## GAUGES, METERS AND SERVICE REMINDER INDICATORS

The light may occasionally flicker when the engine is idling or it may come on briefly after a hard stop. There is no cause for concern if it then goes out when the engine is accelerated slightly.

The light may come on when the oil level is extremely low. It is not designed to indicate low oil level, and the oil level must be checked using the oil level dipstick.

### **NOTICE**

***Do not drive the vehicle with the warning light on – even for one block. It may ruin the engine.***

### **(f) Low Engine Oil Level Warning Light**

This light warns that the engine oil level is too low. Add oil as soon as possible. (For instructions, see "Checking the engine oil level" on page 223.)

While driving on steep inclines or rough roads which causes the vehicle to substantially sway or on curves, this light may come on due to the movement of engine oil in the engine.

### **NOTICE**

***Continued engine operation with low engine oil will damage the engine.***

### **(g) Malfunction Indicator Lamp**

This lamp comes on in the following cases.

- The fuel tank is completely empty. (See "Fuel gauge" on page 32 for instructions.)
- The fuel tank cap is not tightened securely (SC400 only). (See "Fuel tank cap" on page 56 for instructions.)
- There is a problem somewhere in your engine or automatic transmission electrical system.

If it comes on while you are driving in case "c.", have your vehicle checked/repared by your Lexus dealer as soon as possible.

If this lamp comes on and the engine speed does not increase with the accelerator pedal depressed down to about the middle position, there may be a problem somewhere in your electronic throttle control system.

At this time, if you depress the accelerator pedal more firmly and slowly, you can drive your vehicle at low speeds. Have your Lexus checked by your Lexus dealer as soon as possible.

Even if the abnormality of the electronic throttle control system is corrected during low speed driving, the system may not be recovered until the engine is stopped and the ignition key is turned to "ACC" or "LOCK" position.

## GAUGES, METERS AND SERVICE REMINDER INDICATORS

---

### (h) "ABS" Warning Light

The light comes on with the ignition key turned to "ON". If the anti-lock brake system works properly, the light goes out after a few seconds. Thereafter, if the system malfunctions, the light comes on.

When the "ABS" warning light is on (and the brake system warning light is off), the anti-lock brake system and/or the traction control system do/does not operate, but the brake system still operates conventionally.

When the "ABS" warning light is on (and the brake system warning light is off), the anti-lock brake system does not operate so that the wheels could lock up during a sudden braking or braking on slippery road surfaces.

**If the following conditions occur, this indicates a malfunction somewhere in the parts monitored by the warning light system. Contact your Lexus dealer as soon as possible to service the vehicle.**

- The light does not come on with the ignition key turned to "ON", or remains on.
- The light comes on while driving.

If the light lit during driving goes out and does not come on again, it is a normal operation.

### (i) Open Door Warning Light

This light remains on until all the doors are completely closed.

### (j) Rear Light Failure Warning Light

If this light comes on when the headlight switch is turned on (at the first or second clickstop), it indicates that one or more of the tail lights are burned out.

If it comes on when the brake pedal is depressed, one or more stop lights are burned out.

Have defective bulbs replaced as soon as possible.

### (k) "TRAC OFF" Indicator/Warning Light

This light comes on when the ignition key is turned to "ON", and will go off after a few seconds. This means that the system is operating properly.

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

- The light remains on more than a few seconds after the ignition switch is turned on.
- The light comes on while driving even if the "TRAC OFF" switch is not pushed.

## GAUGES, METERS AND SERVICE REMINDER INDICATORS

### (l) Low Washer Fluid Warning Light

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

### (m) 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.

### (n) Key Reminder Buzzer

This buzzer reminds you 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):

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.



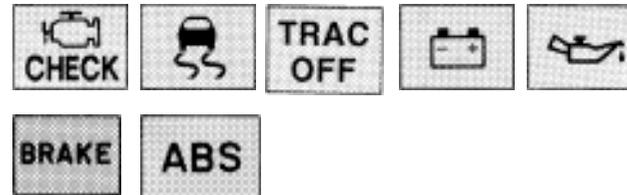
3. Turn the ignition key to "ACC".

The following service reminder indicator should come on. It goes off after 6 seconds.



4. Turn the ignition key to "ON".

The following service reminder indicators should come on.



## GAUGES, METERS AND SERVICE REMINDER INDICATORS

---

The following service reminder indicators go off after about a few seconds.



5. Turn the ignition key to "START".

The following service reminder indicators should come on.



If any service reminder indicator or warning buzzer does not function, either the bulb is burned out or circuit is in need of repair. Have it checked by your Lexus dealer as soon as possible.

## CRUISE INFORMATION DISPLAY

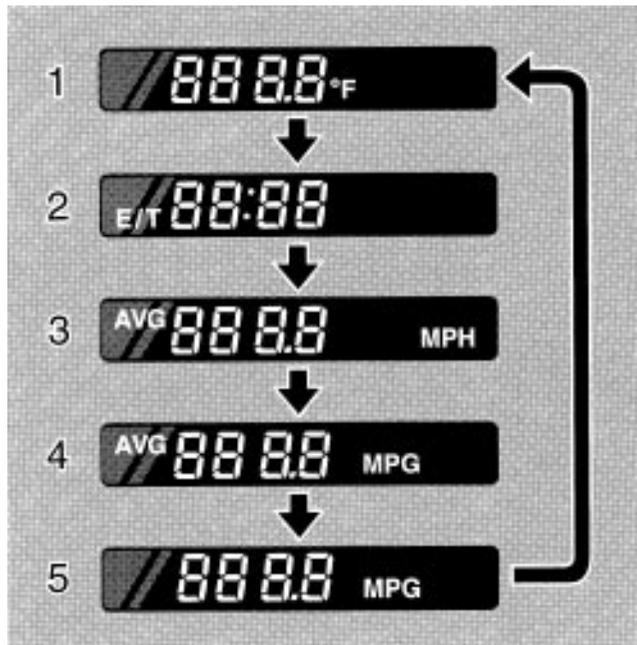


The following information is shown with the ignition switched "ON".

- (1) Outside temperature
- (2) Driving time
- (3) Average vehicle speed
- (4) Average fuel consumption
- (5) Momentary fuel consumption

The displayed values in the cruise information display indicate the general driving condition, so those may not show precise and actual condition.

## GAUGES, METERS AND SERVICE REMINDER INDICATORS



To change the mode, push the "MODE/RESET" button briefly at the right bottom of the instrument cluster.

The initial mode with the ignition switch turned to "ON" is an outside temperature display.

### (1) Outside temperature (Figures with "°F")

The displayed temperature ranges from  $-30^{\circ}\text{C}$  ( $-22^{\circ}\text{F}$ ) up to  $50^{\circ}\text{C}$  ( $122^{\circ}\text{F}$ ).

If the temperature does not appear on the display or it shows "--", take your vehicle to your Lexus dealer.

### (2) Driving time (Figures with "E/T")

The total time during the engine running is displayed.

When the engine is started again after the ignition is off, the driving time is added to the previous value. Up to 99 hours 59 minutes can be displayed. When the driving time exceeds 99 hours 59 minutes, the display returns to 0 and recounting starts.

To count from the beginning, push the "MODE/RESET" button for more than 1 second.

### (3) Average vehicle speed (Figures with "AVG MPH")

The average vehicle speed is calculated and displayed based on the total driving distance and the total driving time with the engine running.

The displayed value is updated every 10 seconds.

To calculate from the beginning, push the "MODE/RESET" button for more than 1 second.

## GAUGES, METERS AND SERVICE REMINDER INDICATORS

---

### **(4) Average fuel consumption (Figures with "AVG MPG")**

The average fuel consumption is calculated and displayed based on the total driving distance and the total fuel consumption with the engine running.

The value is updated every 10 seconds.

To calculate from the beginning, push the "MODE/RESET" button for more than 1 second.

### **(5) Momentary fuel consumption (Figures with "MPG")**

The momentary fuel consumption is calculated and displayed based on the driving distance and the fuel consumption for 3 seconds with the engine running.

The value is updated every 3 seconds.

If you are driving at low speeds just before stopping, the accurate figure may not be shown.

***For the display (1), (3), (4) or (5), "--" will appear in case the data for calculation is not appropriate.***

## INSTRUMENT PANEL LIGHT CONTROL



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

When the headlight switch is in the first or second click stop, you can also adjust the brightness of the displays on the audio and air conditioning systems using this knob.

# **SECTION 1 - 4**

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## **INSTRUMENTS AND CONTROLS**

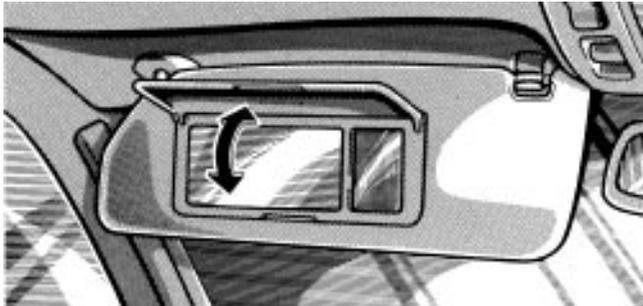
### **Interior equipment**

Vanity mirrors .....	44
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## INTERIOR EQUIPMENT

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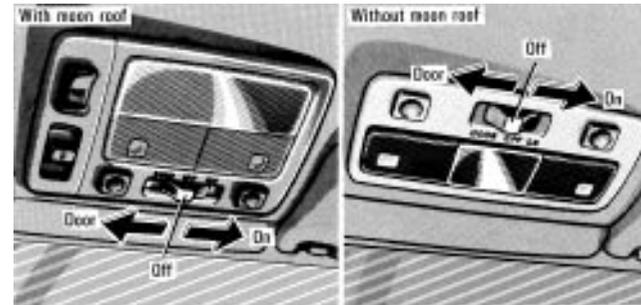
### VANITY MIRRORS



**To use the vanity mirrors, swing the sun visor down and open the cover.**

The vanity light comes on when you open the cover.

### INTERIOR LIGHT



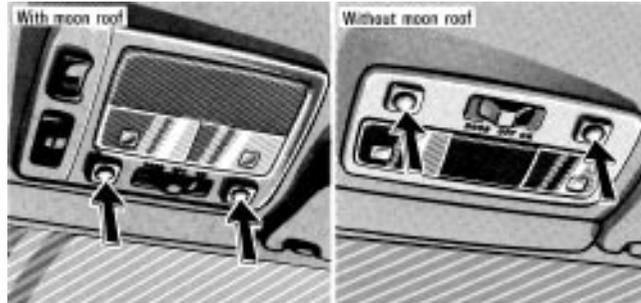
**To turn on the interior light, slide the switch.**

With the switch in the "DOOR" position, the light comes on when either of the side doors is opened. After both doors are closed, the light remains on for about 15 seconds and then goes out.

However, in the following cases, the light goes out immediately:

1. Both doors are closed when the ignition key is in "ACC" or "ON" position.
2. The ignition key is turned to "ACC" or "ON" when the light is still on.
3. Both doors are locked when the light is still on.
4. One door is closed with the lock button pushed in while the other door is locked.

## PERSONAL LIGHTS



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

## IGNITION SWITCH LIGHT



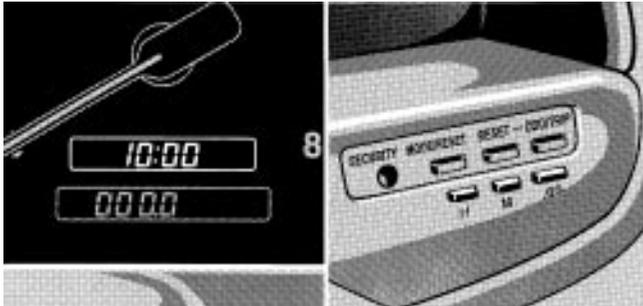
For easy access to the ignition switch, the ignition switch light comes on when either of the side doors is opened.

The light remains on for about 15 seconds and goes out after both side doors are closed. However, the light goes out immediately when both doors are locked or the ignition key is in the "ACC" or "ON" position.

## INTERIOR EQUIPMENT

---

### CLOCK



The digital clock indicates the time with the ignition key at the "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.

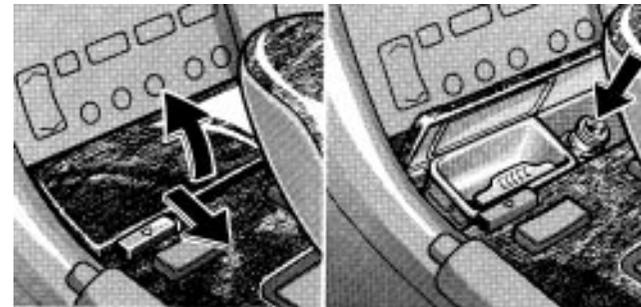
For example, if the ":00" button is pressed when the time is between 9:30 – 9:59 or between 10:01 – 10:29, the time will change to 10:00.

With the tail lights on, the background brightness of the time indication will be reduced.

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

### CIGARETTE LIGHTER AND ASHTRAY

#### Front cigarette lighter and ashtray



To use the cigarette lighter and ashtray, first pull the button. Then when the ashtray opens out, press in the cigarette lighter. When it becomes heated, it automatically pops out ready for use.

Do not hold the cigarette lighter pressed in.

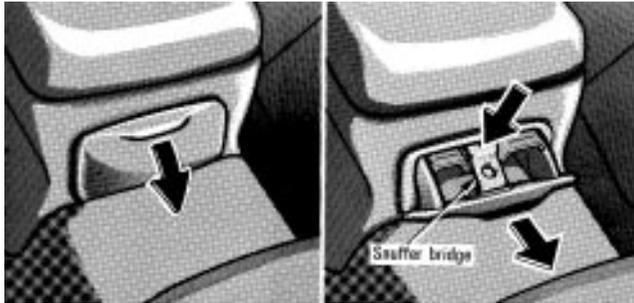
If the engine is not running, the ignition key must be in the "ACC" position.

When finished with your cigarette, thoroughly extinguish it in the ashtray to prevent other cigarette butts from catching fire. After using the ashtray, push it back in completely.

To remove the ashtray, pull it out.

Use a Lexus genuine cigarette lighter or equivalent for replacement.

### Rear ashtray



**To use the ashtray, pull on the lid.**

When finished with your cigarette, thoroughly extinguish it in the ashtray to prevent other cigarette butts from catching fire. After using the ashtray, close the lid completely.

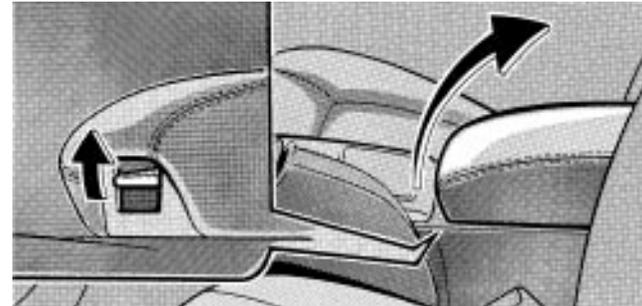
To remove the ashtray, pull it out while pressing on the snuffer bridge to release the catch.



### CAUTION

**To reduce the chance of injury in case of an accident or sudden stop while driving, always close the ashtray completely after using.**

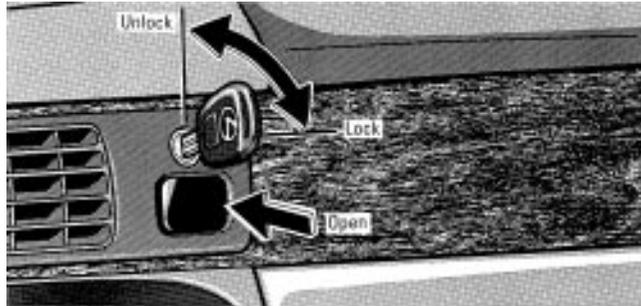
### REAR CONSOLE BOX



**To use the rear console box, open as shown in the illustration.**

## INTERIOR EQUIPMENT

### GLOVE BOX



To open the glove box door, push the lock release button. 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.



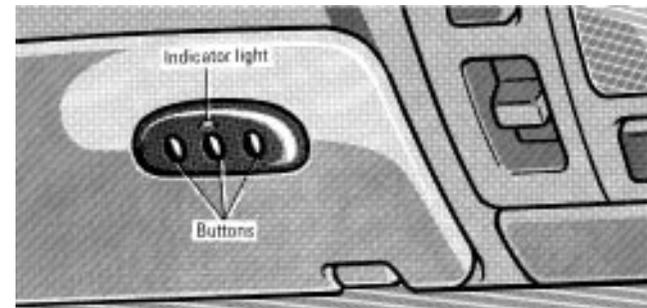
#### CAUTION

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 is manufactured under license from **HomeLink**<sup>®</sup> and can be programmed to operate garage doors, estate gates, security lighting, etc.

#### (a) Programming **HomeLink**<sup>®</sup>



The **HomeLink**<sup>®</sup> has 3 buttons and can be programmed to operate 3 separate devices.

Prepare the **HomeLink**<sup>®</sup> for programming by erasing all codes or the memorized data programmed by the former owner. Follow the procedure in "(c) Erasing the garage door opener memory".

1. Decide which one of the 3 buttons you want to program. Push and hold down the button for about 20 seconds until the indicator light begins to flash. While holding this button, follow steps "2" and "3".

## INTERIOR EQUIPMENT

2. Bring the hand held garage door opener within about 25 mm (1 in.) of the button being programmed and push the button on the hand held garage door opener. The signal from the hand held garage door opener is sent to the vehicle's opener.
3. When the frequency and code is registered, the indicator light flashes rapidly. At this point, you can release both buttons.
4. To program the remaining buttons, repeat steps "1" through "3".

If you want to replace an existing program with a new program, select the button you want to program. Follow the procedure from step 1.

**If the transmitter has a "rolling code feature", it is necessary to program the in-garage receiver after programming HomeLink®.**

1. **Locate the "training" or "learning" button on the in-garage receiver and push and release this button. Location of the button may vary by the garage door opener manufacturer.**
2. **Firmly push and release the trained HomeLink® button 2 times (some garage door manufacturer may require you to push the HomeLink® button up to 3 times) to complete the process.**

**The garage door should now operate when the HomeLink® button is pushed.**

Do not use the **HomeLink®** universal transmitter 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.



### CAUTION

**When programming or operating the garage door opener, make sure there is no one around the moving door. It is dangerous if someone is caught.**

#### (b) Operating the garage door opener

Push the appropriate button to activate the garage door opener. The indicator light comes on. The garage door opener continues to send the signal for up to 20 seconds as long as the button is pushed.

#### (c) Erasing the garage door opener memory

Push and hold down the 2 outside buttons for about 20 seconds until the indicator light flashes. All memorized data will be erased.

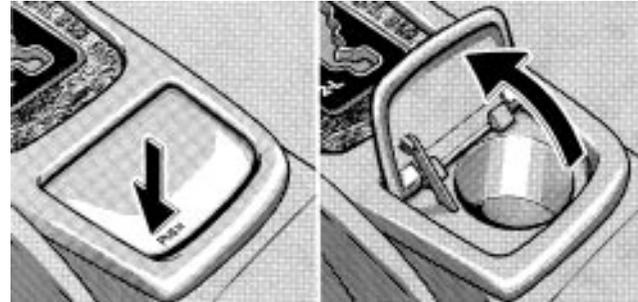
## INTERIOR EQUIPMENT

FCC ID: CB2V94800

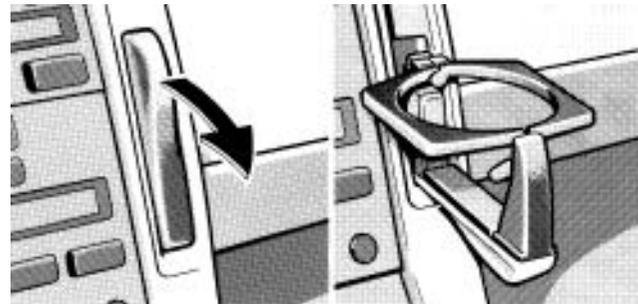
This device complies with FCC Rules Part 15. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference that may be received, including interference that may cause undesired operation. **WARNING: This transmitter has been tested and complies with FCC and DOC/MDC rules. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the device.**

## CUP HOLDERS

To use the cup holder:



Push the end of the cup holder portion of the console box.



Grasp the cup holder lever and pull it down completely.

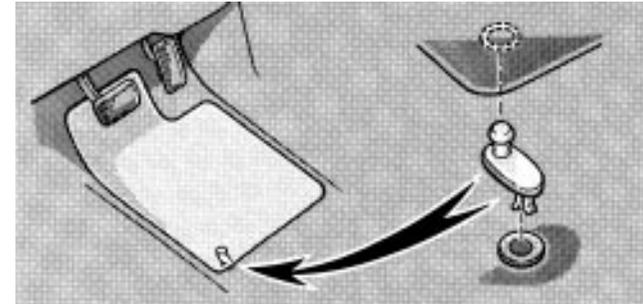
The cup holder is designed for holding cups or drink-cans securely in its holes.



**CAUTION**

- Do not place anything else other than cups or drink-cans on the cup holder, 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 cup holder closed when not in use.

**FLOOR MAT**



**Use a floor mat of the correct size.**

If the floor carpet and floor mat have a hole, then it is designed for use with a locking clip. Fix the floor mat with locking clip into the hole in the floor carpet.

## INTERIOR EQUIPMENT

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### 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.

## LUGGAGE STOWAGE PRECAUTIONS

When stowing luggage or cargo in the vehicle, observe the following:

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



### CAUTION

- Do not place anything on the filler panel behind the rear seatback. 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.

### NOTICE

*Do not load the vehicle beyond the vehicle capacity weight specified on the tire pressure label.*

# **SECTION 1-5**

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## **INSTRUMENTS AND CONTROLS**

### **Exterior equipment**

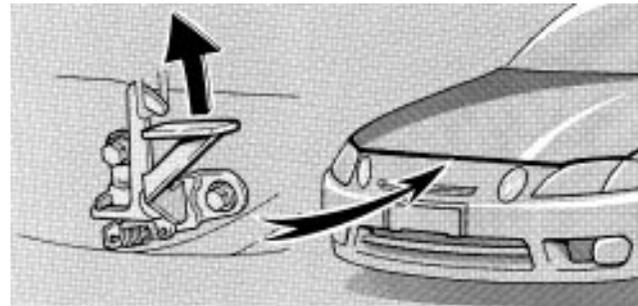
Hood .....	54
Trunk lid .....	55
Fuel tank cap .....	56
Moon roof .....	58

## EXTERIOR EQUIPMENT

### HOOD



**1. To open the hood, pull the hood lock release lever under the 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.**

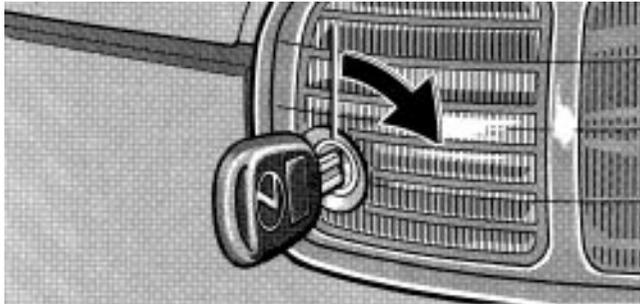
Before closing the hood, check to see that you have not forgotten any tools, rags, etc. Then lower the hood and make sure it locks.



#### 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.**

## TRUNK LID



To unlock the trunk lid, insert the master key and turn it clockwise.

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

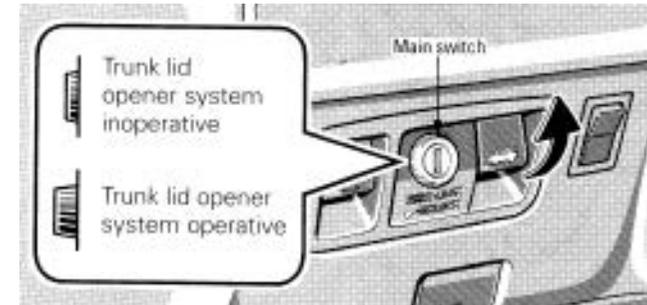
The trunk lid can be unlocked using the wireless remote control key. For details, see page 15.



### CAUTION

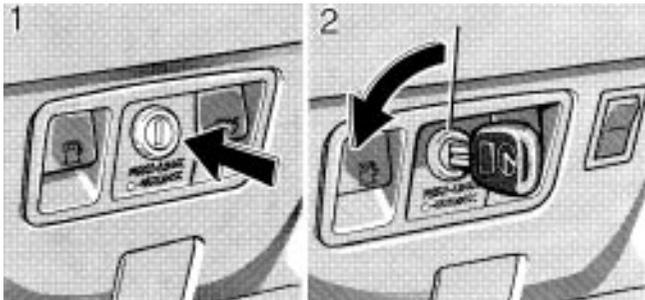
Keep the trunk lid closed while driving. This not only keeps the luggage from being thrown out, but also prevents exhaust gases from entering the vehicle.

## Trunk lid opener



To open the trunk lid while sitting in the driver's seat, pull the lever with the main switch not pushed in.

## EXTERIOR EQUIPMENT



1. If you do not want to activate the trunk lid opener system, push in the main switch.

2. To activate the system, insert the master key and turn it counterclockwise.

To protect things put in the trunk, when you have your vehicle parked, turn off the trunk lid opener system.

## FUEL TANK CAP

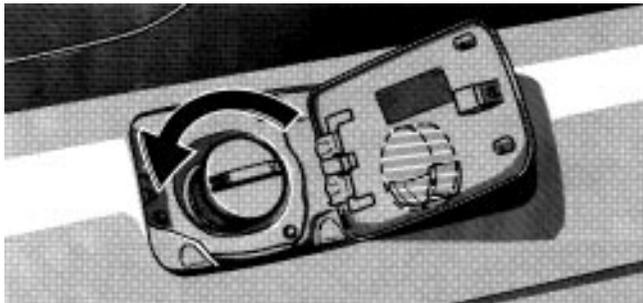


1. To open the fuel filler door, pull the lever under the instrument panel.

When refueling, turn off the engine.

### CAUTION

- Do not smoke, cause sparks or allow open flames when refuelling. The fumes are flammable.
- 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. To remove the fuel tank cap, turn the cap slowly counterclockwise, then pause slightly before removing it. The removed cap can be stored on the back side of the fuel filler door.**

It is not unusual to hear a slight swoosh when the cap is opened. When installing the cap, turn the cap clockwise until you hear a click.

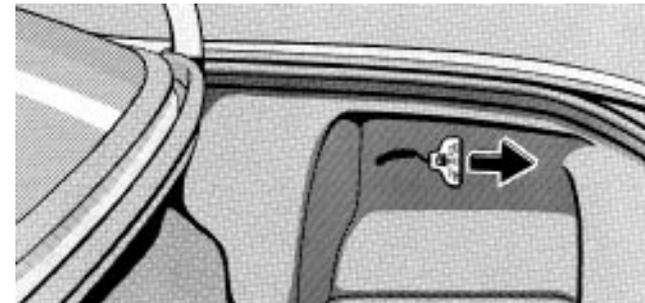
If the cap is not tightened securely, the malfunction indicator lamp comes on. Make sure the cap is tightened securely.

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.

**CAUTION**

- Make sure the cap is tightened securely to prevent fuel spillage in case of an accident.
- Use only a genuine Lexus fuel tank cap for replacement. It has a built-in check valve to reduce fuel tank vacuum.

**In case the opener is not actuated**



**Pull the manual lever toward the back.**

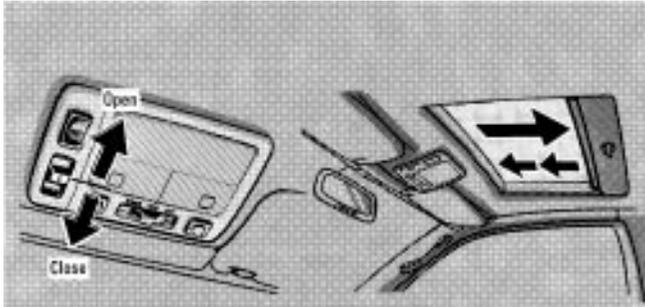
This is used in case the fuel filler door cannot be opened due to a discharged battery or other trouble.

**Refueling the vehicle**

**As soon as the correctly operated nozzle switches off automatically for the first time, the tank is full. Do not try to add more fuel, because fuel may spill out.**

## EXTERIOR EQUIPMENT

### MOON ROOF

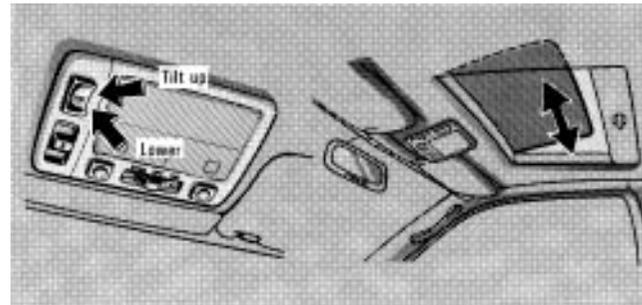


**To slide open the moon roof, push the switch toward the back. The moon roof will fully open. To stop partway, push the switch briefly in the opposite direction or push the "TILT" switch.**

The sun shade can be opened or closed manually. However, if you open the moon roof, the sun shade will be opened with the moon roof.

**To close the moon roof, push the switch toward the front.**

The moon roof will move while the switch is being pushed and stop when released. However, as a precaution, it stops partway before sliding fully closed, except when already more than three-quarters closed. Therefore, release the switch and then push it again to close it completely.



**To tilt up the rear end of the moon roof, push the switch on the rear side or on the front side to lower it.**

To operate the moon roof, the ignition key must be in the "ON" position. However, even if the ignition key is turned to the "ACC" or "LOCK" position, the moon roof can be operated until any of the doors is opened (or for about 60 seconds).



#### CAUTION

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

- **While the vehicle is moving, always keep the head, hands and other parts of the body of all occupants away from the roof opening. Otherwise, you could be seriously injured if the vehicle stops suddenly or if the vehicle is involved in an accident.**

- Always make sure nobody places his/her head, hands and other parts of the body in the roof opening before you close the roof. If someone's neck, head or hands gets caught in the closing roof, it could result in a serious injury. When anyone closes the roof, first make sure it is safe to do so.
- Never leave small children alone in the vehicle, especially with the ignition key still inserted. They could use the moon roof switches and get trapped in the roof opening. Unattended children can become involved in serious accidents.
- Never sit on top of the vehicle around the roof opening.



# SECTION 1 – 6

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## INSTRUMENTS AND CONTROLS

### Comfort adjustment

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Driving position memory system .....	104

## COMFORT ADJUSTMENT

### FRONT SEATS

#### Seat adjustment precautions

Adjust the driver's seat so that the foot pedals, steering wheel and instrument panel controls are within easy reach of the driver.



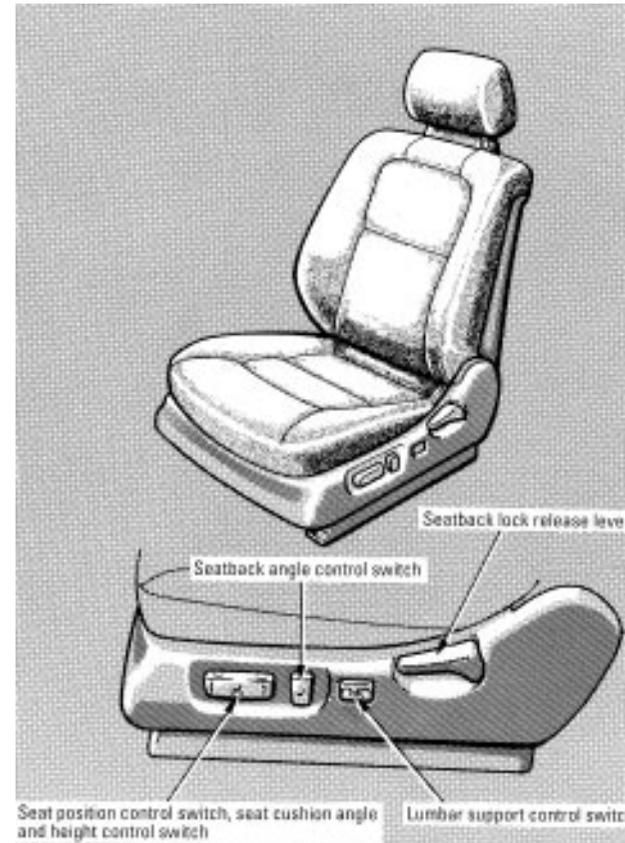
#### CAUTION

- 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 not to hit the seat against a passenger, luggage or the rear seat.

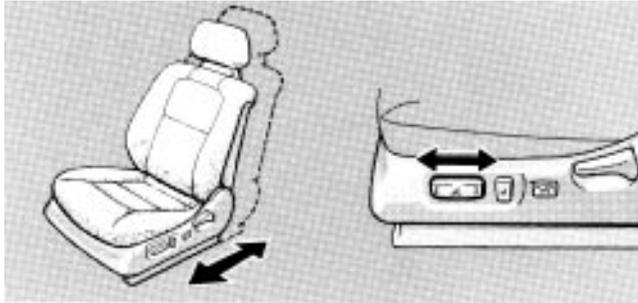
#### NOTICE

*Do not operate the control switch in more than one dimension at a time. It may cause electrical overload.*

#### Adjusting front seats



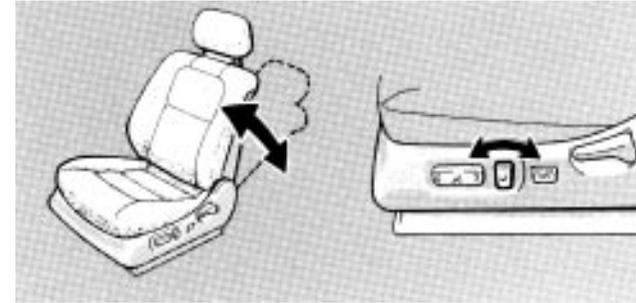
**Adjusting seat position**



**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. It 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.



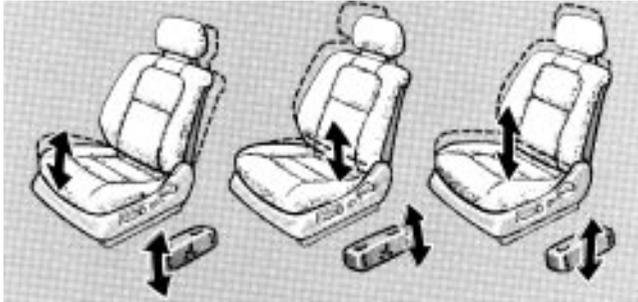
**CAUTION**

To reduce the risk of sliding under the lap belt during a collision, 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 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. Therefore, in the event of a frontal collision, the risk of personal injury may increase with increasing recline of the seatback.

## COMFORT ADJUSTMENT

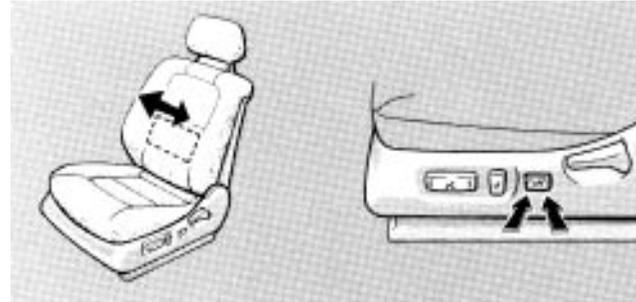
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### Adjusting seat cushion angle and height



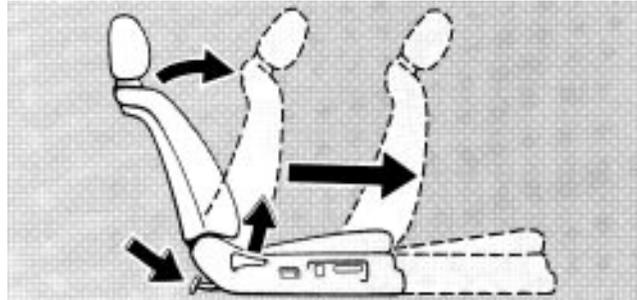
**Move the control switch in the desired direction.**  
Releasing the switch will stop the seat cushion in that position.

### Adjusting lumbar support



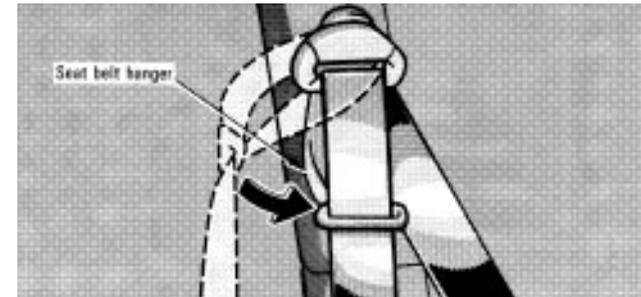
**Push the control switch on either side.**  
The amount of lumbar support will change as long as the switch is pushed.

**Moving passenger's seat for rear seat entry**



**Lift the seatback lock release lever or press the release pedal. The seatback will incline and the seat will automatically slide forward.**

This allows passengers to get in or out of the rear seat easily.



Before entry, push the seat belt hanger down as far as it will go if it is in the raised position.

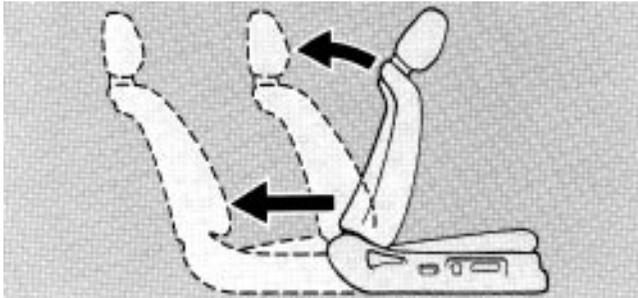


**CAUTION**

**This vehicle is equipped with two seat belts in the rear seat. For the safety of passengers, do not let three people ride in the rear seat.**

## COMFORT ADJUSTMENT

---



**After passengers are in, return the seatback until it locks. The seat will then automatically slide rearward.**

The amount of seat movement varies with the original seat position.

Do not place anything under the seat. It might interfere with the seat movement.

In the following cases, automatic forward or rearward movement will not be performed or will be cancelled partway:

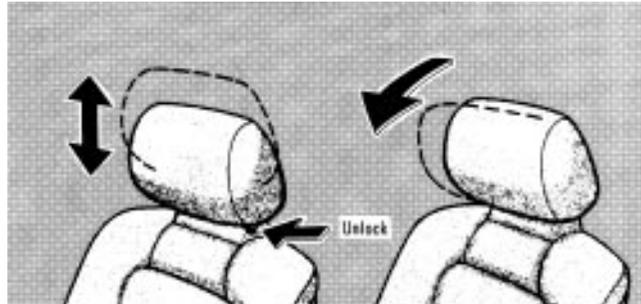
1. The seat position control switch is operated.
2. The seatback is lifted up or inclined while the seat is moving.
3. The passenger's seat belt is used.
4. There is not enough room to move forward or rearward.



### CAUTION

- After the seat returns, try pushing the seat forward and rearward to make sure it is secured in place.
- Never allow anyone to rest their foot on the release pedal while the vehicle is moving.

## HEAD RESTRAINTS



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, pull on the top.

Pulling the top of the head restraint forward as far as it can go will return it to the upright 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.

## TILT AND TELESCOPIC STEERING WHEEL

Power 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.



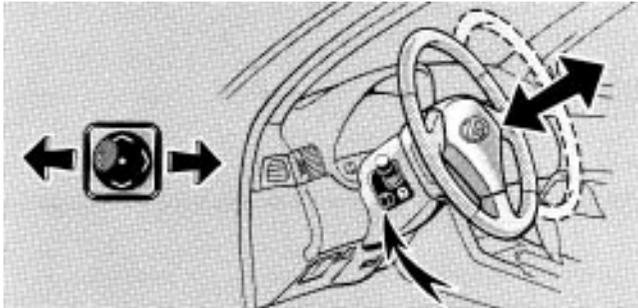
### CAUTION

Do not adjust the steering wheel while the vehicle is moving.

## COMFORT ADJUSTMENT

---

### 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.

### Auto mode

When the tilt and telescopic steering wheel auto mode button on the steering column is set to the "ON" position, the current position of the steering column becomes the memorized position.

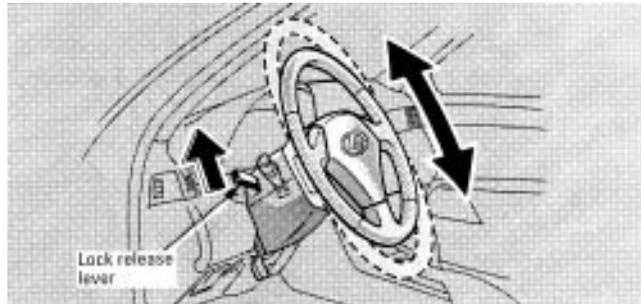


When the ignition key is removed with the auto mode button set to the "ON" position, the steering column moves forward away from the driver and also tilts up for easy exit and entry.

When the key is inserted in the ignition, the steering column returns to the previously set position. This occurs regardless of whether the auto mode button is ON or OFF.

**Manual tilt and telescopic type**

**ADJUSTMENT OF STEERING WHEEL TILT**



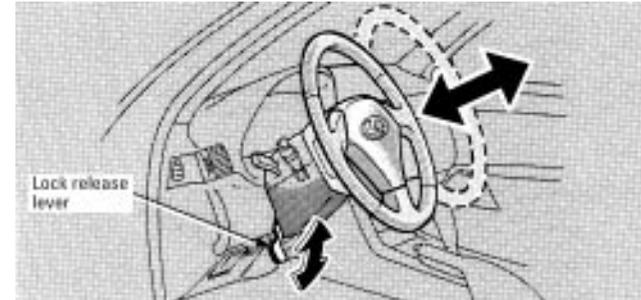
To change the steering wheel angle, hold the steering wheel, pull up the lock release lever, tilt the steering wheel to the desired angle and release the lever.

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.
- After adjusting the steering wheel, try moving it up and down to make sure it is locked in position.

**ADJUSTMENT OF TELESCOPIC STEERING COLUMN**



To adjust the steering column length, push the lock release lever down, push or pull the steering wheel to the desired position, and pull the lever fully up until a click is heard.

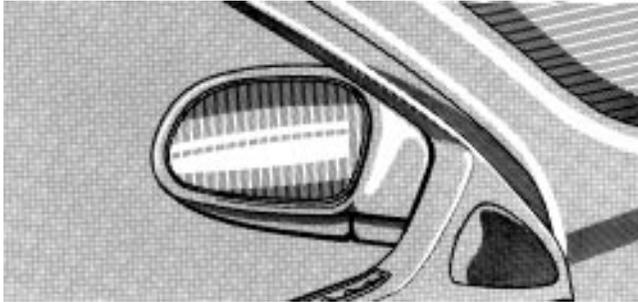
 **CAUTION**

- Do not adjust the steering column while the vehicle is moving.
- After adjusting the steering wheel, try moving it up and down to make sure it is locked in position.

## COMFORT ADJUSTMENT

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### OUTSIDE REAR VIEW MIRRORS



**Adjust the mirror so that you can just see the side of your vehicle in the mirror.**

Be careful when judging the size or distance of any object seen in the outside rear view mirror on the passenger's side. It is a convex mirror with a curved surface. Any object seen in a convex mirror will look smaller and farther away than if seen in a normal flat 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 72.

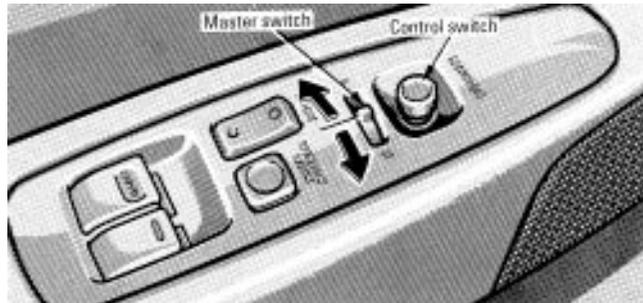
When you push the rear window defogger switch, the heater panels in the outside rear view mirrors will quickly clear the mirror surface.



#### CAUTION

- Do not adjust the mirror while the vehicle is moving. It may cause the driver to mishandle the vehicle and an accident may occur, resulting in personal injuries.
- Since the mirror surfaces can get hot, keep your hands off them when the rear window and outside rear view mirror defogger switch is on.

**Power rear view mirror control**



To adjust the power rear view mirror, first place the master switch at "L" (left) or "R" (right), and move the control switch in the desired side.

The power rear view mirror can be adjusted when the key is in the "ACC" or "ON" 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.



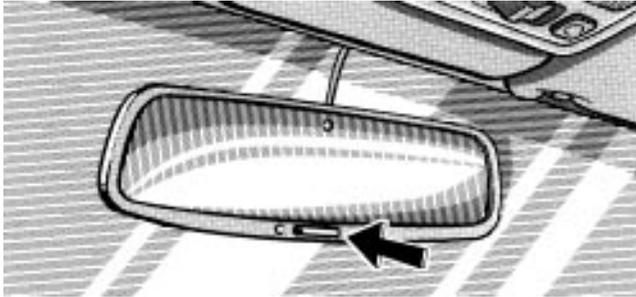
**CAUTION**

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.

## COMFORT ADJUSTMENT

---

### INSIDE REAR VIEW MIRROR



Adjust the mirror so that you can just see the rear of your vehicle in the mirror.

Pushing the 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 key is inserted and 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. It may cause the driver to mishandle the vehicle and an accident may occur resulting in personal injuries.

## 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.

**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 90 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. Do not let the child sit on your lap. It does not provide sufficient restraint. If an accident occurs and the seat belts are not worn properly, the force of the rapid inflation of the airbag may cause severe injury to the child.

Do not allow the child 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.

**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.



### 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:

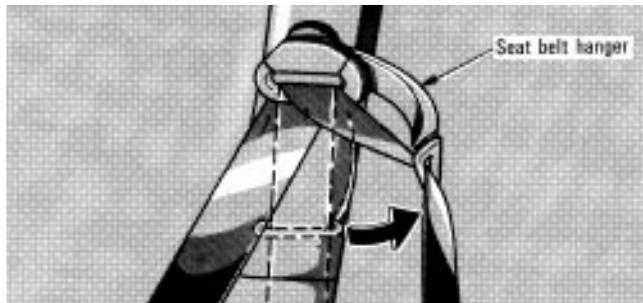
- Use the belt for only one person at a time. Do not use a single belt for two or more people – even children.
- Avoid reclining the seatbacks too much. The seat belts provide maximum protection when the seatbacks are in the upright position. (See "Adjusting seatback angle" on page 63.)
- Be careful not to damage the belt webbing or hardware. Take care that they do not get caught or pinched in the seat or doors.

## COMFORT ADJUSTMENT

---

- 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 – they may severely weaken the belts. (See "Cleaning the interior" on page 264 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.

### Front seat belts



**Make sure the seat belt hanger is secured in raised position. If it is not, be sure to raise the seat belt hanger until it locks in position.**

You will hear a click when the seat belt hanger locks in position.



**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.

## COMFORT ADJUSTMENT

When a passenger's shoulder 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 90.) 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.



### Adjust the position of the lap and shoulder belts.

Position the lap belt as low as possible on your hips – not on your waist, then adjust it to a snug fit by pulling the shoulder portion upward through the latch plate.



### 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. It cannot protect an adult occupant or your child from injury.



### CAUTION

- High-positioned lap belts and loose-fitting belts both could cause severe injuries due to sliding under the lap belt during a collision or other unintended result. Keep the lap belt positioned as low on hip as possible.
- For your safety, do not place the shoulder belt under your arm.

## COMFORT ADJUSTMENT

---



**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.

### Rear seat belts



**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.

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 shoulder 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 90.)

To free the belt again, fully retract the belt and then pull the belt out once more.

## COMFORT ADJUSTMENT

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. It cannot protect an adult occupant or your child from injury.
- This vehicle is equipped with two seat belts in the rear seat. For the safety of passengers, do not let three people ride in the rear seat.



### Adjust the position of the lap and shoulder belts.

Position the lap belt as low as possible on your hips – not on your waist, then adjust it to a snug fit by pulling the shoulder portion upward through the latch plate.



### CAUTION

- High-positioned lap belts and loose-fitting belts both could cause severe injuries due to sliding under the lap belt during a collision or other unintended result. Keep the lap belt positioned as low on hip as possible.
- For your safety, do not place the shoulder belt under your arm.

## COMFORT ADJUSTMENT

---



**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 extender

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

Please contact your local Lexus dealer to 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.

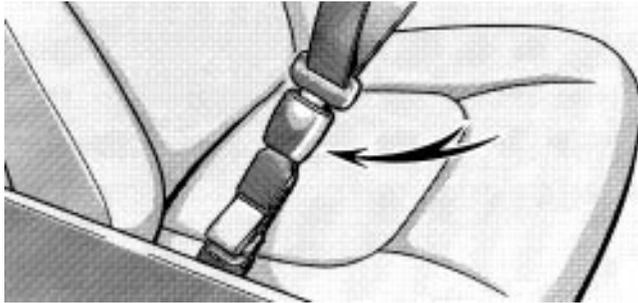


### CAUTION

**When using the seat belt extender, observe the following. Failure to follow these instructions could result in less effectiveness of the seat belt restraint system in case of vehicle accident, increasing the chance of personal injury.**

- **Never use the seat belt extender if you can fasten the seat belt without it.**
- **Remember that the extender provided for you may not be safe when used on a different vehicle, or for another person or at a different seating position than the one originally intended for.**

## COMFORT ADJUSTMENT



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.

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

- 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. It cannot protect an adult occupant or your child from injury.



### CAUTION

- After inserting the tab, make sure the tab and buckle are locked and that the seat belt extender is not twisted.

## COMFORT ADJUSTMENT

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### Front seat belt pretensioners



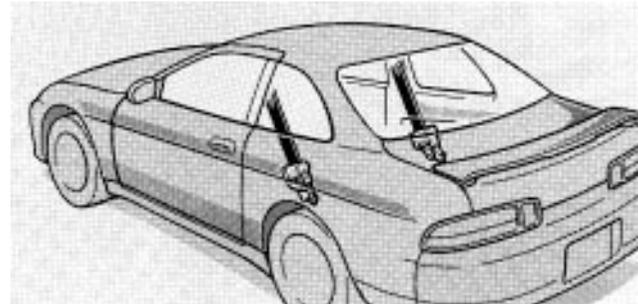
**The driver and front passenger's seat belt pretensioners are designed to be activated in response to a severe frontal impact.**

The airbag system and each pretensioner operates independently because each has its own separate sensor.

A pretensioner sensor is located in each front seat belt retractor assembly. When the pretensioner sensor detects the shock of a severe frontal impact, the front seat belt is quickly drawn back in by the retractor so that the belt snugly restrains the front seat occupant.

When a seat belt pretensioner is activated, an operating noise may be heard and a small amount of smoke-like gas may be released. This gas is harmless and does not indicate that a fire is occurring.

Once the seat belt pretensioner has been activated, the seat belt retractor remains locked.



### CAUTION

**Do not modify, remove or strike the front seat belt retractor assemblies or surrounding area. Doing any of these may cause sudden operation of the front seat belt pretensioners or disable the system, which could result in serious injury.**

**Failure to follow these instructions can result in serious injuries.**

**NOTICE**

*Do not perform any of the following changes without consulting your Lexus dealer. Such changes can interfere with proper operation of the seat belt pretensioners in some cases.*

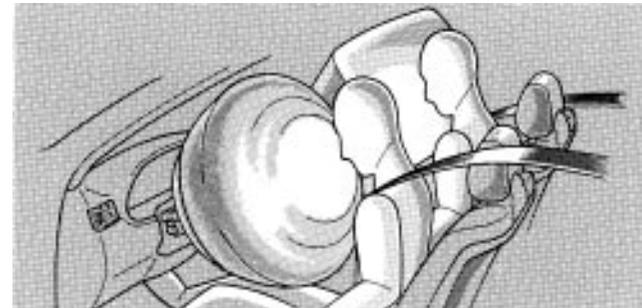
- *Repairs on or near the front seat belt retractor assemblies.*
- *Modification of the suspension system.*
- *Modification of the front end structure.*
- *Attachment of a grille guard (bull bar, kangaroo bar, etc.), snowplow, winches or any other equipment to the front end.*

In the following case, contact your Lexus dealer as soon as possible:

- If either front seat belt does not retract or cannot be pulled out due to a malfunction or activation of the pretensioner.
- The front seat belt retractor assembly or surrounding area has been damaged.

**SRS AIRBAGS**

The SRS (Supplemental Restraint System) 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 airbags work together with the seat belts to help reduce injury by inflating. The SRS airbags help to reduce injuries mainly to the driver's or front passenger's head or chest directly hitting the steering wheel or dashboard.**

The passenger airbag is activated even with no passenger in the front seat.

Be sure to wear your seat belt.

## COMFORT ADJUSTMENT

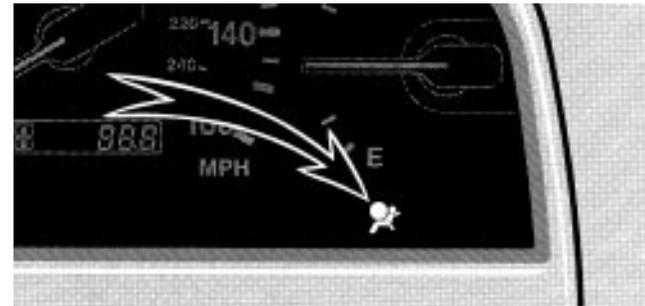
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### CAUTION

The driver or front passenger too close to the steering wheel or dashboard during airbag deployment can be killed or seriously injured. Lexus strongly recommends that:

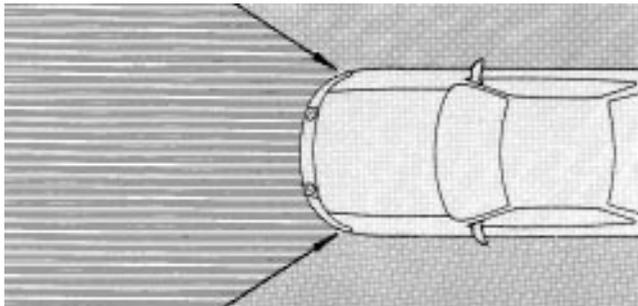
- The driver sit as far back as possible from the steering wheel while still maintaining control of the vehicle.
- The front passenger sit as far back as possible from the dashboard.
- All vehicle occupants be properly restrained using the available seat belts.



This indicator comes on when the ignition key is turned to the "ACC" or "ON" position. It goes off after about 6 seconds. This means the SRS airbags are operating properly.

The SRS airbag warning light system monitors the airbag sensor assembly, inflators, warning light, interconnecting wiring and power sources. (For details, see "Service reminder indicators and warning buzzers" on page 34.)

## COMFORT ADJUSTMENT



**The SRS airbag system is designed to activate in response to a severe frontal impact within the shaded area between the arrows in the illustration.**

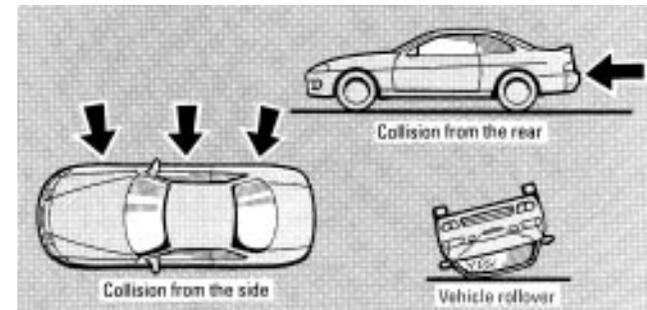
The SRS airbags will deploy if the severity of the impact is above the designed threshold level, comparable to an approximate 20 km/h (14 mph) collision when impacting straight into a fixed barrier that does not move or deform.

If the severity of the impact is below the above threshold level, the SRS airbags may not deploy.

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 it is involved in an underride collision (a collision in which the nose of the vehicle "underrides", or goes under, the bed of a truck, etc.).

It is possible with collision severity at the marginal level of airbag sensor detection and activation that only one of your vehicle's two airbags will deploy.

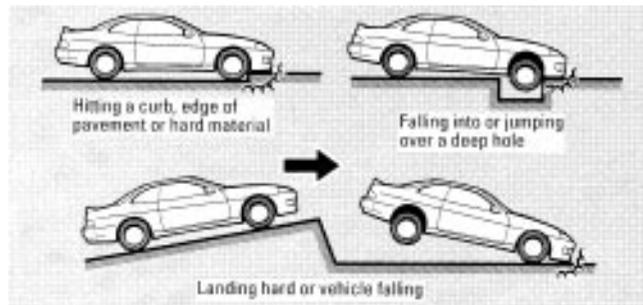
For the safety of all occupants, always wear your seat belts.



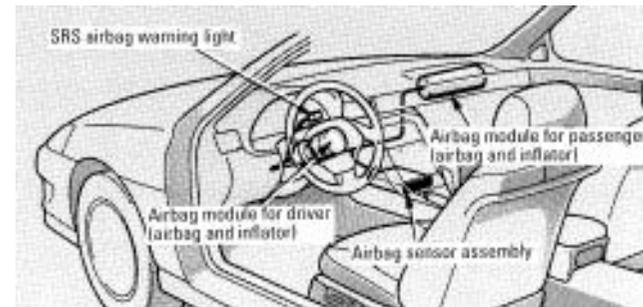
**The SRS airbags are not designed to inflate if the vehicle is involved in a side or rear collision, if it rolls over, or if it is involved in a low-speed frontal collision.**

## COMFORT ADJUSTMENT

---



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



The airbag assembly consists of a safing sensor and airbag sensor.

In a severe frontal impact, sensors detect deceleration and the system triggers the airbag inflators. Then a chemical reaction in the inflators quickly fills the airbags with non-toxic gas to help restrain the forward motion of the occupants.

When the airbags inflate, they produce a fairly loud noise. And the driver airbag also releases some smoke and residue along with non-toxic gas. This does not indicate a fire. This gas is normally harmless; however, for those who have delicate skin, it may cause a minor skin irritation. Be sure to wash off any residue as soon as possible to prevent any potential skin irritation.

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.

Parts of the airbag module (steering wheel hub, dashboard) may be hot for several minutes, but the airbags themselves will not be hot. The airbags are designed to inflate only once.

A crash severe enough to inflate the airbags may break the windshield as the vehicle buckles. In vehicles with a passenger airbag the windshield may also be damaged by absorbing some of the force of the inflating airbag.



**CAUTION**

- The SRS airbag system is designed only as a supplement to the primary protection of the driver side and front passenger side seat belt systems. The front seat occupants can be killed or seriously injured by an inflating airbag if they do not wear the available seat belts. 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. Wearing a seat belt 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 73.
- Improperly seated and/or restrained infants and children can be killed or seriously injured by a deploying airbag. An infant or child who is too small to use a seat belt should be properly secured using a child restraint system. Lexus strongly recommends that all infants and children be placed in the rear 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 90.

## COMFORT ADJUSTMENT

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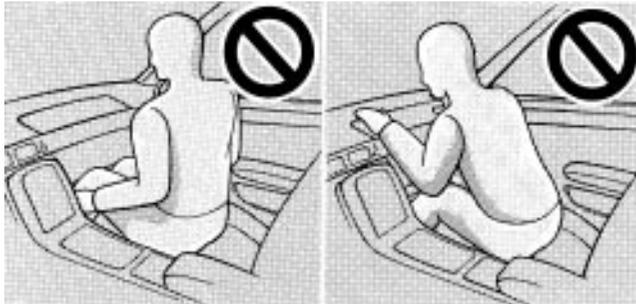


- Never put a rear-facing child restraint system on the front seat because the force of the rapid inflation of the passenger airbag can cause death or serious injury to the child.



- A forward-facing child restraint system should be allowed to be put on the front seat only when it is unavoidable. Always move the seat as far back as possible, because the force of a deploying airbag could cause death or serious injury to the child. For instructions concerning the installation of a child restraint system, see "Child restraint" on page 90.

## COMFORT ADJUSTMENT

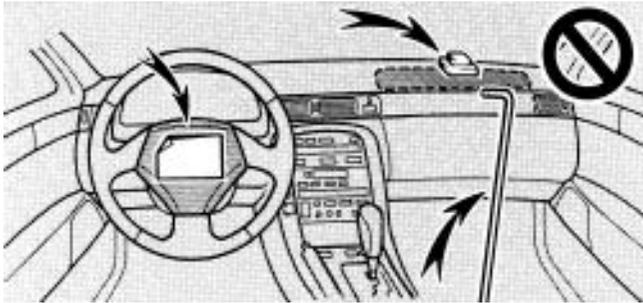


- Do not sit on the edge of the seat or lean over the dashboard when the vehicle is in use. The airbags inflate with considerable speed and force; you may be killed or seriously injured. Sit up straight and well back in the seat, and always use your seat belt.



- Do not allow a child to stand up, or to kneel on the front passenger seat. The airbag inflates with considerable speed and force; the child may be killed or seriously injured.
- 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 90.

## COMFORT ADJUSTMENT



- Do not put objects or your pets on or in front of the dashboard or steering wheel pad that houses the driver and front passenger airbag system. 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 things in their arms or on their knees.
- Do not modify or remove any wiring. Do not modify, remove or open any components, such as the steering wheel pad, steering wheel, column cover, front passenger airbag cover, front passenger airbag, or airbag sensor assembly. Doing any of these may cause sudden SRS airbag inflation or disable the system, which could result in death or serious injury.

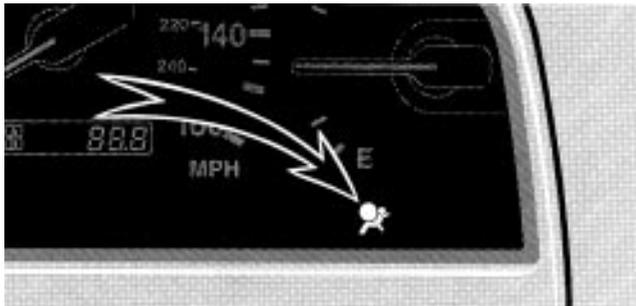
Failure to follow these instructions can result in death or serious injury.

### NOTICE

*Do not perform any of the following changes without consulting your Lexus dealer. Such changes can interfere with proper operation of the SRS airbag system in some cases.*

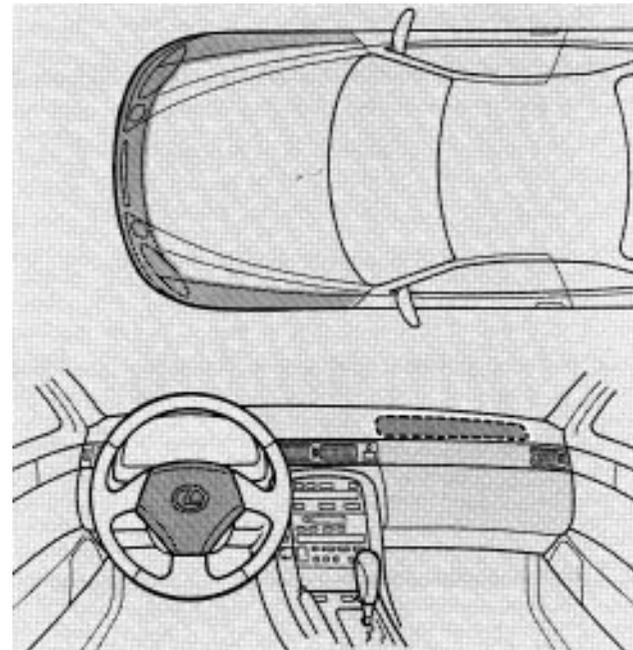
- *Installation of electronic devices such as a mobile two-way radio, cassette tape player or compact disc player.*
- *Modification of the suspension system.*
- *Modification of the front end structure.*
- *Attachment of a grille guard (bull bar, kangaroo bar, etc.), snowplow, winches or any other equipment to the front end.*
- *Repairs made on or near the front fenders, console, steering column, steering wheel or dashboard near the front passenger airbag.*

## COMFORT ADJUSTMENT



This SRS airbag system has a service reminder indicator to inform the driver of operating problems. If either of the following conditions occurs, this indicates a malfunction of the airbags. 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 "ACC" or "ON" position, or the light remains on.
- The light comes on while driving.



In the following cases, contact your Lexus dealer as soon as possible:

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

## COMFORT ADJUSTMENT

---

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

### **NOTICE**

***Do not disconnect the battery cables before contacting your Lexus dealer.***

## 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 fifty states in the U.S.A. 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 73 for details.



### **CAUTION**

- **For effective protection in automobile accidents and sudden stops, children must be properly restrained. Holding a child in your arms is not a substitute for a child restraint system using a seat belt or child restraint depending on age and size. In an accident, the child can be crushed against the windshield, or between you and the vehicle's interior if you are unrestrained.**
- **Lexus strongly urges use of a proper child restraint which conforms to the size of the child and is put on the rear seat. According to accident statistics, the child is safer when properly restrained in the rear seat than in the front seat.**

## COMFORT ADJUSTMENT

- **Never put a rear-facing child restraint system on the front seat. In the event of an accident, the force of the rapid inflation of the airbag can cause death or serious injury if a rear-facing child restraint system is put on the front seat.**
- **Unless it is unavoidable, do not put a forward-facing child restraint system on the front seat.**
- **A forward-facing child restraint system should be allowed to put on the front seat only when it is unavoidable. Always move the seat as far back as possible, because the force of a deploying airbag could cause death or serious injury to the child.**
- **Make sure you have complied with all installation instructions provided by the child restraint manufacturer and that the system is properly secured.**

### 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 restraint system.

Install the child restraint system correctly following the instructions provided by its manufacturer of the system. 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.



### CAUTION

- **Never put a rear-facing child restraint system on the front seat. In the event of an accident, the force of the rapid inflation of the airbag can cause death or serious injury if a rear-facing child restraint system is put on the front seat.**
- **Unless it is unavoidable, do not put a forward-facing child restraint system on the front seat.**
- **A forward-facing child restraint system should be allowed to put on the front seat only when it is unavoidable. Always move the seat as far back as possible, because the force of a deploying airbag could cause death or serious injury to the child.**
- **After installing the child restraint system, make sure it is secured in place according to the manufacturer's instructions. If it is not restrained securely, it may cause death or serious injury to the child in the event of a sudden stop or accident.**

## COMFORT ADJUSTMENT

---

When not using the child restraint system, keep it secured with the seat belt or place it in the trunk or somewhere other than in the passenger compartment. This will prevent it from injuring passengers in the event of a sudden stop or accident.

### 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.

#### (A) Infant seat



## COMFORT ADJUSTMENT

(B) Convertible seat



(C) Booster seat



### INSTALLATION WITH 3-POINT TYPE SEAT BELT

(A) Infant seat installation



An infant seat is used in rear-facing position only.

## COMFORT ADJUSTMENT

---



### CAUTION

- Never put a rear-facing child restraint system on the front seat because the force of the rapid inflation of the passenger airbag can cause death or serious injury to the child.



- Do not put a rear-facing child restraint system on the rear seat if it interferes with the lock mechanism of the front seats. This may cause serious injury to the child and front passenger in case of sudden braking or a collision.

## COMFORT ADJUSTMENT



1. Run the lap and shoulder belt through or around the infant seat following the instructions provided by its manufacturer and inserting the tab into the buckle taking care not to twist the belt. Keep the lap portion of the belt tight.



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.



### 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 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. It cannot protect your child from injury.

## COMFORT ADJUSTMENT

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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.

Where to run the seat belt should be also referred to the instructions provided by its manufacturer.



### 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.

## COMFORT ADJUSTMENT



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 is used in forward-facing and rear-facing positions 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 a child restraint system.

## COMFORT ADJUSTMENT

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### CAUTION

- Never put a rear-facing child restraint system on the front seat because the force of the rapid inflation of the passenger airbag can cause death or serious injury to the child.

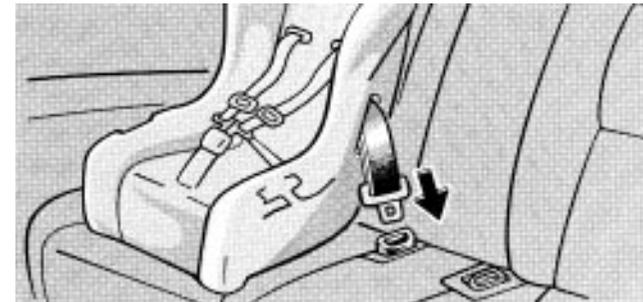


- A forward-facing child restraint system should be allowed to be put on the front seat only when it is unavoidable. Always move the seat as far back as possible, because the force of a deploying airbag could cause death or serious injury to the child.
- If you must put the convertible seat on the front seat, make sure the seat belt hanger is secured in raised position. For details, see page 74 in the "Seat belt".

## COMFORT ADJUSTMENT



- **Do not put a rear-facing child restraint system on the rear seat if it interferes with the lock mechanism of the front seats. This may cause serious injury to the child and front passenger in case of sudden braking or a collision.**



1. Run the lap and shoulder belt through or around the convertible seat following the instructions provided by its manufacturer and inserting the tab into the buckle taking care not to twist the belt. Keep the lap portion of the belt tight.

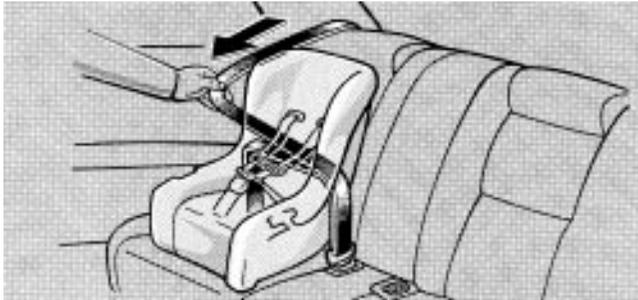


### CAUTION

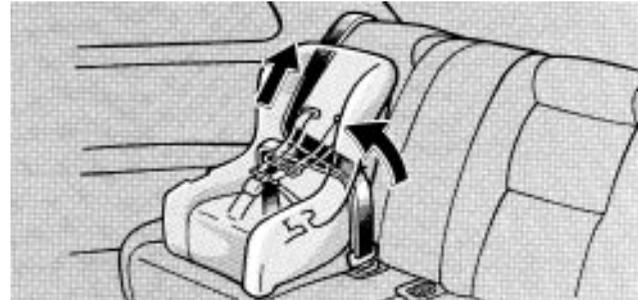
- After inserting the tab, make sure the tab and buckle are locked and that the lap and shoulder portions of the belt are not twisted.
- Do not insert coins, clips, etc. in the buckle as this may prevent you from properly latching the tab and buckle.
- If the seat belt does not function normally, immediately contact your Lexus dealer. Do not use the seat until the seat belt is fixed. It cannot protect your child from injury.

## COMFORT ADJUSTMENT

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2. Fully extend the shoulder belt to put it in the lock mode. When the belt is then retracted 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.



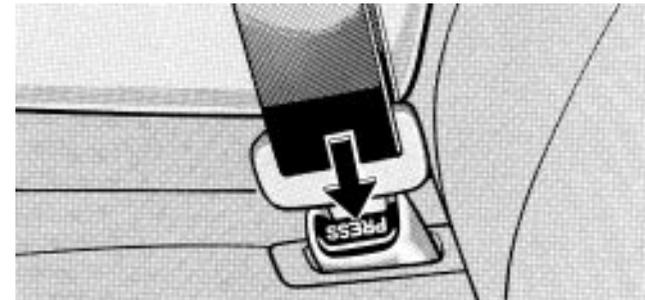
3. While pressing the convertible seat firmly against the seat cushion and seatback, let the shoulder belt retract as far as it will go to hold the convertible seat securely.

## COMFORT ADJUSTMENT



### 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.



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.

## COMFORT ADJUSTMENT

---

### (C) Booster seat installation



A booster seat is used in forward-facing position only.



### CAUTION

- A forward-facing child restraint system should be put on the front seat only when it is unavoidable. Always move the seat as far back as possible, because the force of a deploying airbag could cause death or serious injury to the child.
- If you must put the convertible seat on the front seat, make sure the seat belt hanger is secured in raised position. For details, see page 74 in the "Seat belt".

## COMFORT ADJUSTMENT



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.

Make sure the shoulder belt is correctly across the child's shoulder and that the lap belt is positioned as low as possible on child's hips. See "Seat belts" on page 73 for details.



### 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. Failure to do so could reduce the amount of protection in an accident and cause serious injuries in a collision.
- 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 result. Keep the lap belt positioned as low on hip 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 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. It cannot protect your child from injury.

## COMFORT ADJUSTMENT

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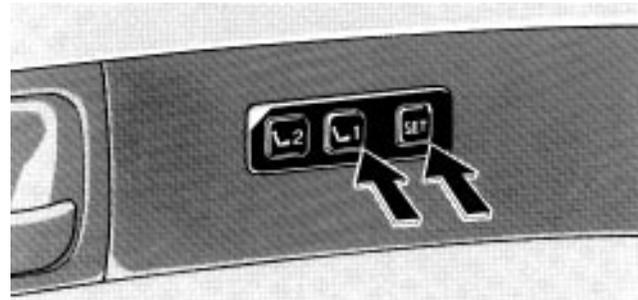
2. To remove the child restraint system, press the buckle-release button and allow the belt to retract.

## DRIVING POSITION MEMORY SYSTEM

The micro computer can memorize the position of the driver's seat, 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.

This can only be done when the ignition key is in the "ON" position, and the selector lever is in the "P" position.

### Setting a 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.**

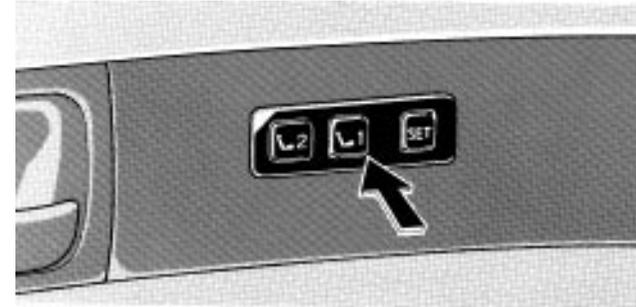
The beep sound means that the positions are recorded in the computer's memory.

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.

### Activating a memorized position



**When you push button "1" or "2", the signal beeps and the driving position automatically adjusts to the position recorded for that button.**

#### Conditions for memorized position activation

- Ignition key "ON"  
Selector lever in "P" position  
All parts of the memorized positions can be activated.  
However, if the brake pedal is being depressed, the seat position will not change.
- Key not in ignition switch  
Within 30 seconds of opening driver's door  
The memorized position can be activated, except for the tilt and telescopic steering.

## COMFORT ADJUSTMENT

---

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 vehicle's 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, or depressing the brake pedal.

# **SECTION 1 - 7**

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## **INSTRUMENTS AND CONTROLS**

### **Theft deterrent**

Theft deterrent system .....	108
Theft prevention labels .....	110

## THEFT DETERRENT

---

### THEFT DETERRENT SYSTEM

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

The alarm blows the horn intermittently and flashes the headlights, tail lights and other exterior lights.



#### Setting the system

**1. Turn the ignition key to the "LOCK" position and remove it.**

The indicator light flashes by means of the engine immobiliser system.

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

If you lock them with wireless remote control, the turn signals flash once.

The flashing indicator light changes to stay on when all the doors, trunk 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 or trunk using an ignition key or wireless remote control, the system is cancelled.**

If you unlock any door or trunk with wireless remote control, the turn signals flash twice.

#### Activating the system

The alarm sounds for 60 seconds if any of the following are operated:

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

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

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

- Unlock the door or trunk 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 front doors 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 battery terminal is disconnected and then reconnected.

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

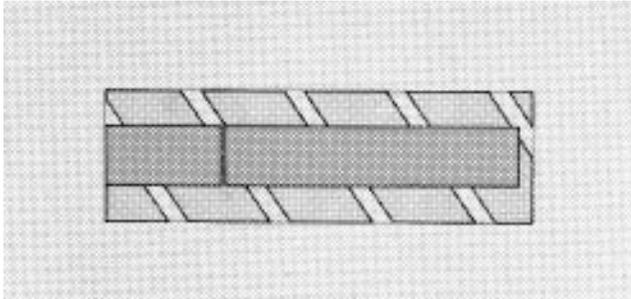
### NOTICE

*Disconnecting the 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.*

## THEFT DETERRENT

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### THEFT PREVENTION LABELS



**Your new vehicle carries theft prevention labels which are approximately 56 mm (2.20 in.) by 16 mm (0.63 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.

#### ***NOTICE***

***You should not attempt to remove the theft prevention labels as it may violate certain state or federal laws.***

## **SECTION 2-1**

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### **AIR CONDITIONING AND AUDIO**

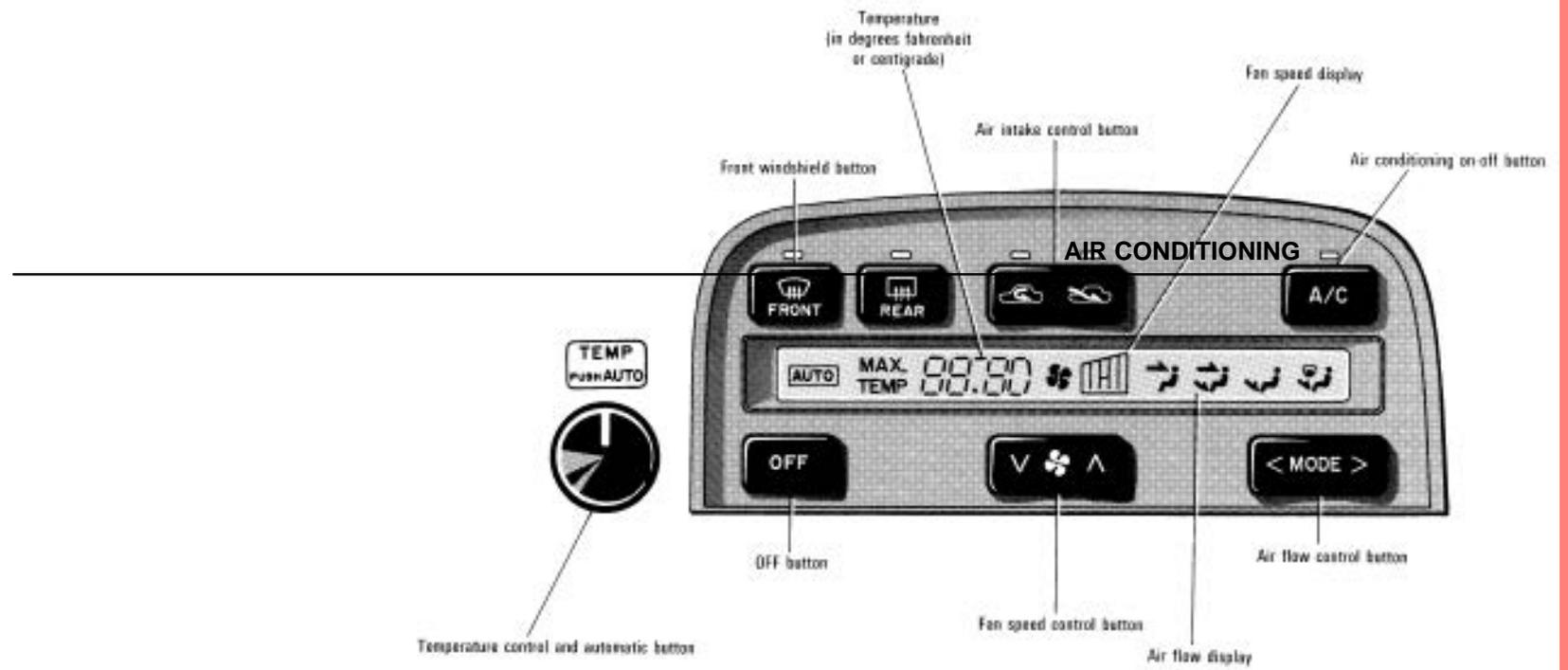
#### **Air conditioning**

Automatic air conditioning controls ..... 112

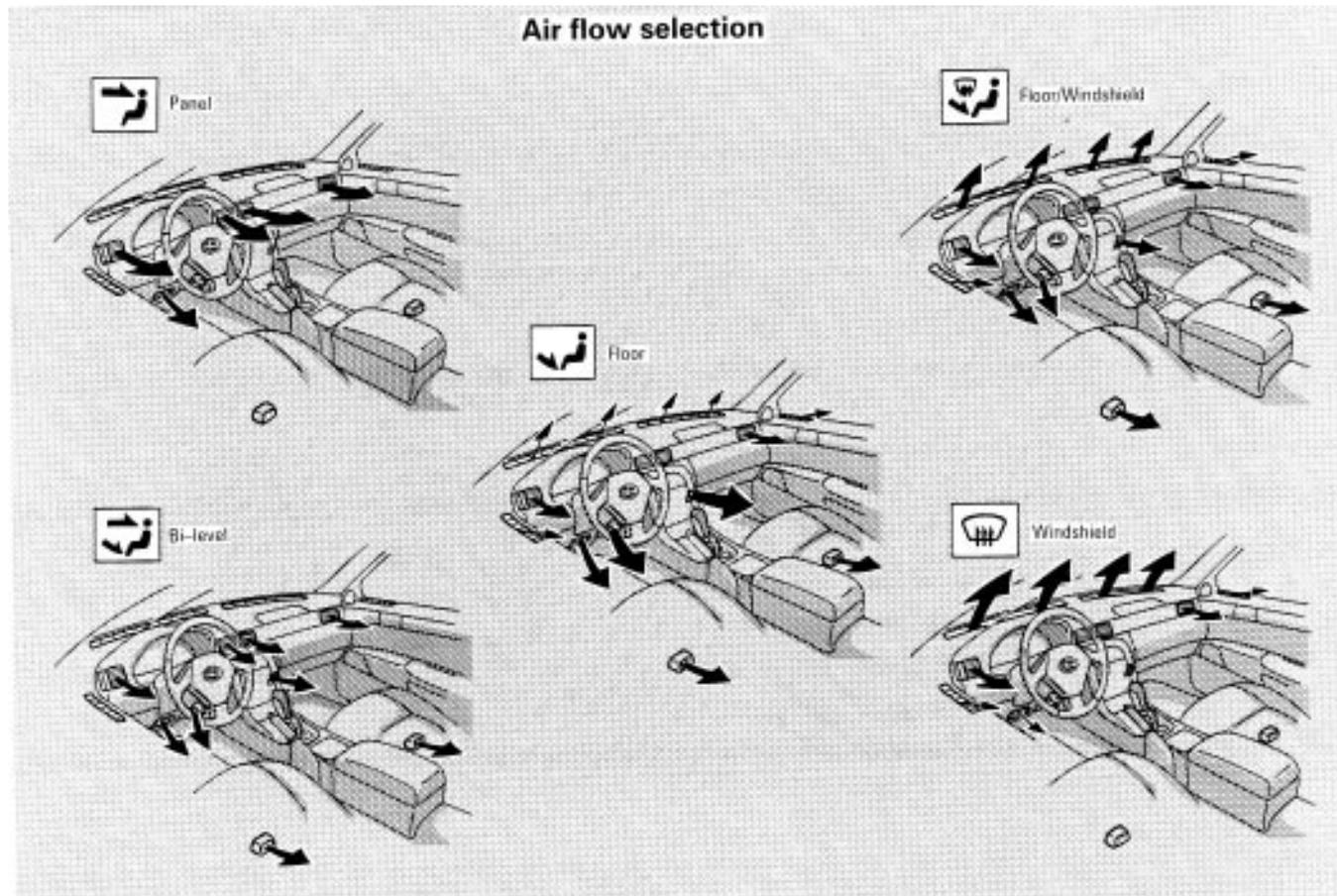
**AIR CONDITIONING**

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**AUTOMATIC AIR CONDITIONING CONTROLS**



## AIR CONDITIONING



The automatic air conditioning automatically maintains the set temperature.

This air conditioning features automatic fan speed and air flow control which automatically selects the most suitable fan speed and air flow to control the temperature. The ignition key must be in the "ON" position.

You may use manual control to override the automatic settings.

You can adjust the brightness of the display. See "Instrument panel light control" on page 42 for details.

### (a) Climate control

#### SETTING OPERATION – automatic control

##### 1. Push the "AUTO" knob.

Air flow quantity, switching of the diffusers, on-off of the air conditioning, and switching of the air intake between RECIRCULATED AIR and OUTSIDE AIR are automatically adjusted. The operation status is shown by each indicator.

When one of the manual control buttons is depressed while operating in automatic mode, the mode relevant to the depressed button is set. Other conditions continue to be adjusted automatically.

##### 2. Turn the "TEMP" knob until the desired temperature is displayed.

The "TEMP" knob is used to set the desired passenger compartment temperature. The temperature of air delivered to the passenger compartment will be controlled automatically according to the setting. The figures on the panel indicate degrees Fahrenheit.

#### SETTING OPERATION – manual control

**When one of the manual control buttons is depressed while operating in automatic mode, the mode relevant to the depressed button is set. Other conditions continue to be adjusted automatically.**

##### If manual air flow selection is desired –

The outlets from which air is delivered can be selected manually by pushing either side of the air flow control  (MODE) button. The mode appears on the display. The function of each mode is as follows:



**PANEL mode** – Directs air flow at face level.



**BI-LEVEL mode** – Directs air flow at face level and at floor level for both front and rear. Except in ventilation, the air to the floor is slightly warmer than air to the face.



**FLOOR mode** – Directs air flow mostly at floor level for both front and rear.



**FLOOR/WINDSHIELD mode** – Directs air flow to the windshield and front side windows as well as floor level for both front and rear.



**FRONT WINDSHIELD mode** – Directs air flow mostly to the windshield and front side windows.

When this mode is selected while operating in automatic mode, the air conditioning is set to operate and the OUTSIDE AIR mode is set.

## AIR CONDITIONING

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If you push the "FRONT WINDSHIELD" button once again while in the FRONT WINDSHIELD mode, the mode then returns to the last mode used.



### CAUTION

**Do not use the FRONT WINDSHIELD mode 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.**

#### If quick heating or cooling is desired –

Obtain maximum power by turning the "TEMP" knob fully. At this time, "MAX. HOT" or "MAX. COLD" will appear on the display.

#### If manual fan speed control is desired –

The fan speed can be set to your desired speed by pushing either side of the fan speed control  (FAN) button. The higher the fan speed is, the more air is delivered. Pushing in the  (OFF) button turns off the fan.

To remove exterior windshield frost, use the high speed setting.

#### Stopping the fan –

Push in the  (OFF) button.

The fan stops in automatic mode or manual mode.

#### If manual switching of air intake is desired –

 (AIR INTAKE) button is used to switch the air intake between the OUTSIDE AIR mode and RECIRCULATED AIR mode.

With the button in the OUTSIDE AIR mode, the OUTSIDE AIR mode indicator light will come on and the system will take fresh outside air into the vehicle.

If quick circulation of cooled air is desired, press in the air intake control button for RECIRCULATED AIR. The RECIRCULATED AIR mode indicator light will come on.

For normal use, it is best to keep the air intake control button set to OUTSIDE AIR mode. If recirculated air is used during heating, the windows will fog up more easily.

#### If manual on-off of the air conditioning is desired –

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 lowered down to 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 does not operate, the indicator of 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

See "(a) Climate control" for details on each button.

#### To remove interior fog on the windshield –

Push the  (WINDSHIELD) button.

#### To remove frost or exterior fog on the windshield –

1. Place the temperature control knob at the maximum temperature.
2. Push the  (WINDSHIELD) button.
3. Push the right side of the fan speed control  (FAN) button to set the fan speed at the maximum speed.

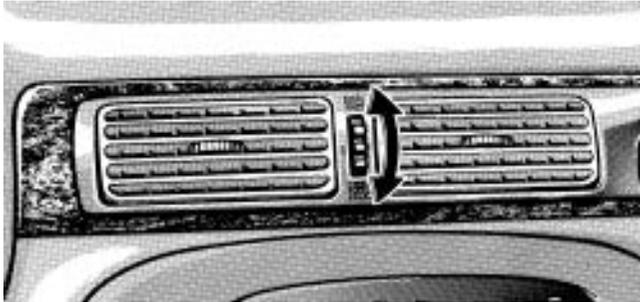
### (c) Operating tips

- Make sure the air inlet grilles in front of the windshield are not blocked by leaves or other obstructions.
- If air flow control is not satisfactory, check the dashboard vents. (See "Center vents", "Side vents" and "Lower vent".)
- To help cool down the interior after parking in the hot sun, drive for the first few minutes with the windows open. After the excess heat has blown away, close the windows.
- 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 left to the OUTSIDE AIR mode and the fan speed control button be pressed to anywhere except the "OFF" button.
- If following another vehicle on a dusty road, or driving in windy and dusty conditions, it is recommended that the air intake control button be temporarily pressed in to the RECIRCULATED AIR mode, which will close off the outside passage and prevent outside air and dust from entering the vehicle interior.

## AIR CONDITIONING

---

### Center vents



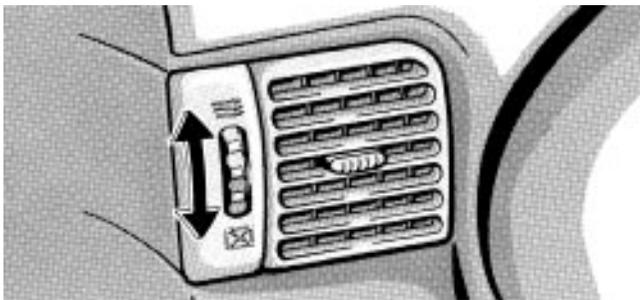
The center vents may be opened or closed as shown.

### Lower vent



The lower vent may be opened or closed as shown.

### Side vents



The side vents may be opened or closed as shown.



## **SECTION 2-2**

---

### **AIR CONDITIONING AND AUDIO**

#### **Audio**

Audio system .....	121
--------------------	-----

## AUDIO SYSTEM

### Car audio operating tips

#### **NOTICE**

*To prevent the battery from being discharged, do not leave the car audio on longer than necessary when the engine is not running.*

*To ensure the correct audio system operation:*

- *Be careful not to spill beverages over the audio system.*
- *Do not put anything other than a cassette tape or CD magazine into the cassette tape slot or CD changer.*
- *The use of cellular phone inside or near the vehicle may cause a noise from the speakers of the audio system which you are listening to. However, this does not indicate a malfunction.*

You can listen to the car audio when the ignition key is at "ON" or "ACC". However, if the engine is not running, the key must be in the "ACC" position.

You can adjust the brightness of the display. See "Instrument panel light control" on page 42 for details.

Audio operation is described in detail on the following pages:

- **Radio operation** – See page 122.
- **Cassette tape player operation** – See page 126.
- **Compact disc player operation** – See page 128.



Push the **SCAN** (SCAN) button for less than 1 seconds. With "SCAN" on the display, the radio will automatically seek out a station of higher frequency, hold it for 5 seconds and scan to the next. To continue listening to the broadcast of your choice, simply push the **SCAN** (SCAN) button once again.

**Manual tuning:** Push the **TUNE** (TUNE) button briefly. Each time you push the button, the radio will step up or down to another frequency.

#### **(c) Presetting a station.**

1. Tune in the desired station. (See "(b) Selecting a station".)
2. Push one of the station selector buttons and hold it until a beep is heard. This sets the station to the button and the button number will appear 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 will be cancelled when the power source is cut off (battery disconnected, blown fuse, etc.).

#### **(d) Adjusting the tone**

To adjust the low-pitched tone, push the "BASS" knob (if depressed) and turn it.

To adjust the middle-pitched tone, push the "MID" knob (if depressed) and turn it.

To adjust the high-pitched tone, push the "TREB" knob (if depressed) and turn it.

#### **(e) Adjusting the sound balance**

To balance the sound between the right and left speakers, push the "BAL" knob (if depressed) and turn it.

To balance the sound between the front and rear speakers, push the "FADE" knob (if depressed) and turn it.

#### **(f) Automatic sound levelizer (Except Nakamichi model)**

When the audio sound becomes difficult to be heard due to road noise, wind noise, etc., during driving, push the **ASL** (ASL) button. "ASL" appears on the display. The system adjusts to the optimum volume and tone quality according to the noise level.

## AUDIO

---

### Radio operating tips

The antenna automatically extends when the radio and ignition are turned on and retracts when either is turned off.



#### CAUTION

**Before extending the antenna, confirm that no one is close enough to get injured.**

#### NOTICE

***To prevent damage to the antenna, make sure it is retracted before running your vehicle through an automatic car wash.***

### FM reception tips

A vehicle is not an ideal place to listen to a radio. Because it moves, reception conditions are constantly changing. Buildings, terrain, signal distance and noise from other vehicles are all working against good reception. Some conditions of FM may appear to be problems when they are not. The following characteristics are completely normal for a given reception area, and they do not indicate any problem with the radio itself.

- **Fading and drifting:**

FM range is limited to about 40 km (25 miles), except for some high power stations.

If a vehicle is moving away from the desired station's transmitter, the signal will tend to fade and/or drift. This phenomenon is more noticeable with FM than with AM, and is accompanied by distortion.

Fading and drifting can be minimized to a certain degree by careful attention to fine tuning, or you should retune the radio to another stronger station.

- **Static and Fluttering:**

When the line-of-sight link between a transmitter and vehicle is blocked by large buildings or the like, the radio sound may be accompanied by static or fluttering because of the characteristic of FM. In a similar effect, a fluttering noise is sometimes heard when driving along a tree-lined road.

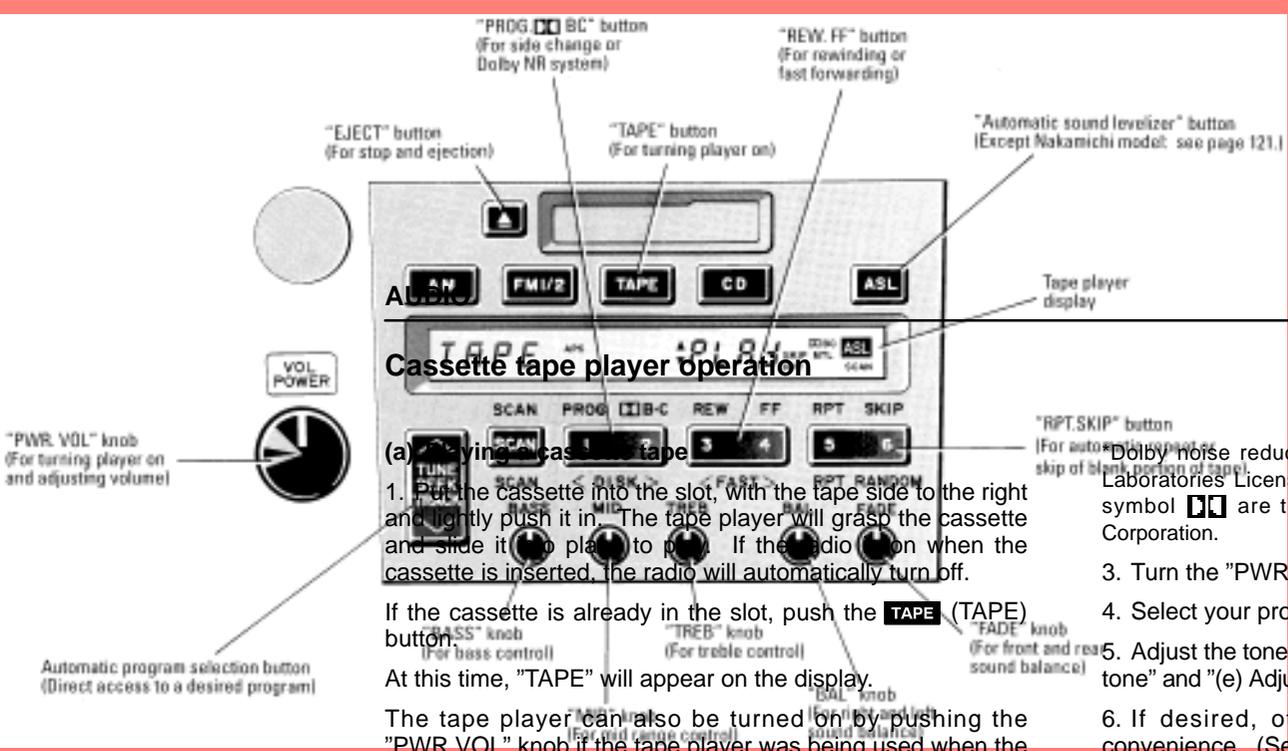
This static and fluttering can be reduced by adjusting the tone control for greater bass response until the disturbance has passed.

- **Multipath:**

Because of the reflecting characteristics of FM, direct and reflected signals may reach the antenna at the same time (multipath) and cancel each other out. As a vehicle moves through these electronic dead spots, the listener may hear a momentary flutter or loss of reception.

- **Station swapping:**

When two FM stations are close to each other, and an electronic dead spot, such as static or multipath area, interrupts the original signal, sometimes the stronger second signal will be selected automatically until the original one returns. This swapping can also occur as you drive away from the selected station and approach another station with a stronger signal.



**Cassette tape operation**

**(a) Playing a cassette tape**

1. Put the cassette into the slot, with the tape side to the right and lightly push it in. The tape player will grasp the cassette and slide it to play position. If the radio is on when the cassette is inserted, the radio will automatically turn off.

If the cassette is already in the slot, push the **TAPE** (TAPE) button.

At this time, "TAPE" will appear on the display.

The tape player can also be turned on by pushing the "PWR.VOL" knob if the tape player was being used when the system was turned off.

When a metal or chrome equivalent tape is inserted, the player will automatically adapt to it and "METAL" will appear on the display.

2. If using a tape recorded with Dolby® NR\*, push the right side of the **1 2** (B C) button to select the Dolby B NR or Dolby C NR mode. The display will indicate which Dolby noise reduction system is operating.

The Dolby B NR mode reduces tape noise by about 10 dB. The Dolby C NR mode reduces tape noise by another 10 dB or about 20 dB total. For best sound reproduction, select the same NR mode that was used to record the tape. To play a tape recorded without Dolby NR\*, push the button until the Dolby NR indicator disappears.

Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation. "DOLBY" and the double-D symbol **DD** are trademarks of Dolby Laboratories Licensing Corporation.

3. Turn the "PWR.VOL" knob to adjust the volume.
4. Select your program. (See "(b) Selecting a program".)
5. Adjust the tone and sound balance. (See "(d) Adjusting the tone" and "(e) Adjusting the sound balance" of radio operation.)
6. If desired, other functions may be used for your convenience. (See "(c) Other tape player functions".)
7. To turn the player off, push the "PWR.VOL" knob.
8. To eject the cassette, push the **EJECT** button. As this is done, the player will turn off. If the radio was on when the cassette tape was inserted, it will automatically turn on again.

The ignition key can be at any position to eject the cassette.

**(b) Selecting a program**

1. Push the left side of **1 2** (PROG) button to select a side to play. The tape operation indicator display shows you which side is being played.

The player will automatically reverse directions at the end of the tape to play the other side.

2. Play the program you want using either of the following methods.

**Manual program selection**

Push the **3 4** (REW, FF) button on the right side to fast forward the tape or on the left side to rewind the tape. At this time, "FF" or "REW" will appear on the display. To stop either fast forwarding or rewinding, push the button on the same side again or push the **TAPE** (TAPE) button. The tape will then resume playing.

**"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 nine programs at a time.

Push **▶** (TRACK) button on the upper 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 **◀** (TRACK) button on the lower 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 the beginning of the tape is reached, the player automatically resumes normal play.

There must be at least 5 seconds of blank space between programs for this feature to work correctly.

**(c) Other tape player functions**

**"RPT" button:** Use for automatic repeat of the program currently being listened to.

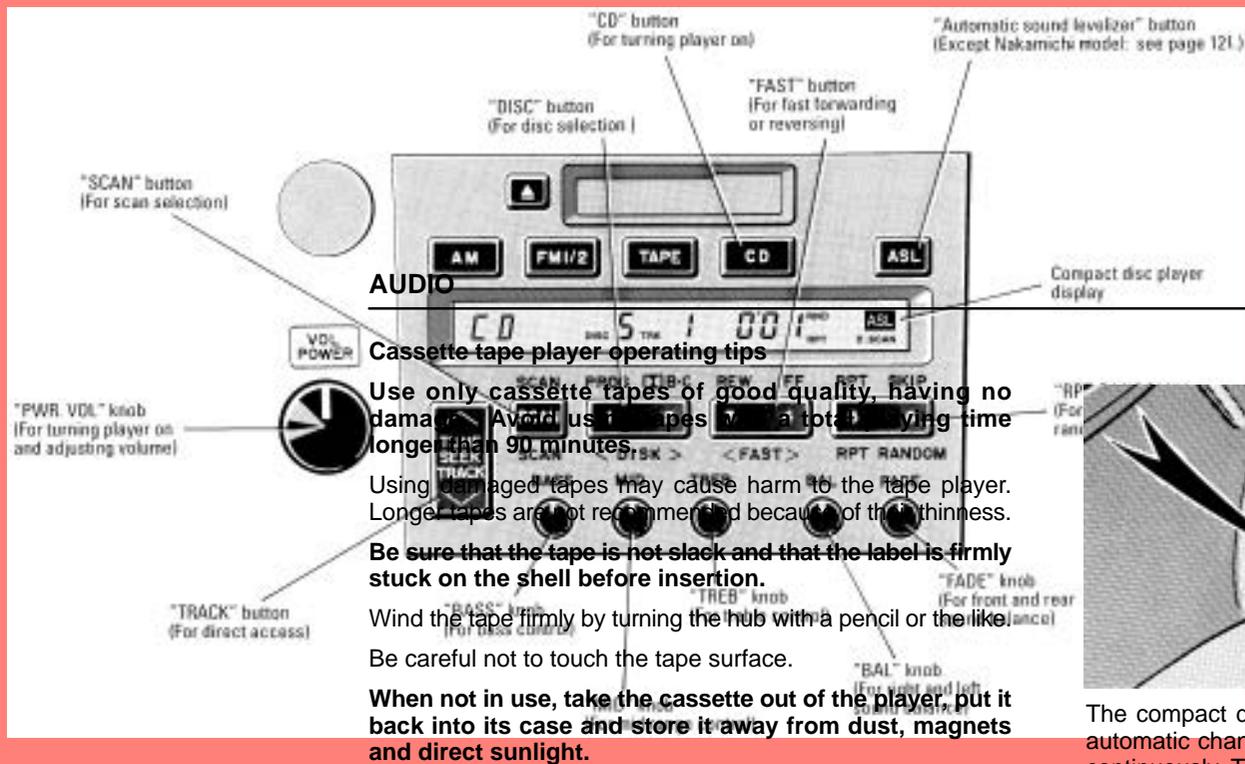
Push the **5 6** (RPT) button on the left side while the program is being played. "RPT" will appear on the display. When the program is finished, the tape will automatically rewind to the beginning of the program and the program will be played again. To cancel it, push the button once again.

This function does not work properly unless there are blank portions on the tape of 3 seconds or more between one program and another.

**"SKIP" button:** Use for automatic skipping of blank portions between programs.

Push the **5 6** (SKIP) button on the right side. "SKIP" appears on the display. The player will automatically skip any blank portions of 15 seconds or more and play the next program, even if it is on the other side. To cancel it, push the button once again.

**"SCAN" BUTTON:** Push the **SCAN** (SCAN) button. "SCAN" appears on the display. The player will fast forward to the next program, play it for 12 seconds, and then scan again. To select a program, push the button once again.



**AUDIO**

**Cassette tape player operating tips**

Use only cassette tapes of good quality, having no damage. Avoid using tapes with a total playing time longer than 90 minutes.

Using damaged tapes may cause harm to the tape player. Longer tapes are not recommended because of their thinness.

**Be sure that the tape is not slack and that the label is firmly stuck on the shell before insertion.**

Wind the tape firmly by turning the hub with a pencil or the like.

Be careful not to touch the tape surface.

**When not in use, take the cassette out of the player, put it back into its case and store it away from dust, magnets and direct sunlight.**

Leaving cassette on the dashboard in the sun could damage your tapes.

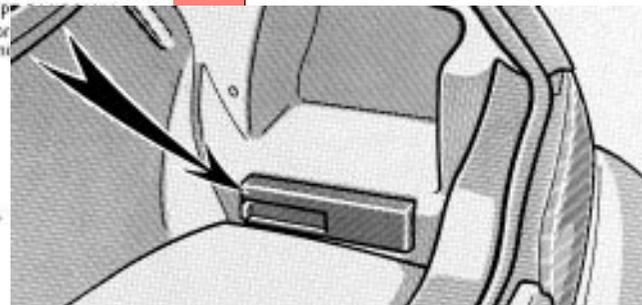
**Keep the interior mechanism of the cassette player clean.**

Once or twice a month, use a wet type cleaning cassette to clean off tape coating residue accumulated on the head, capstan and pinch roller.

**NOTICE**

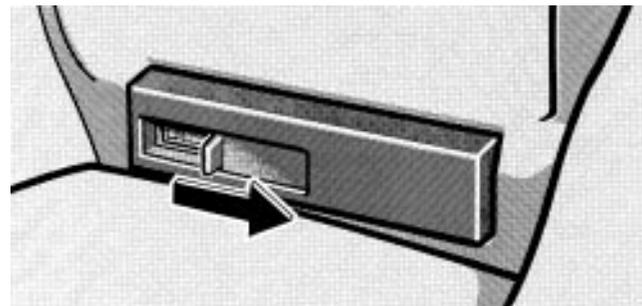
*Do not oil any part of the player and do not insert anything other than cassette tapes into the slot, or the tape player may be damaged.*

**Compact disc player operation**

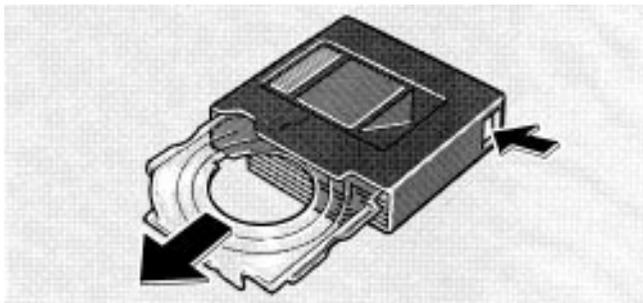


The compact disc player of this system is provided with an automatic changer which can play selected discs or 6 discs continuously. The player is mounted in the trunk, on the right and is operated from the driver's seat.

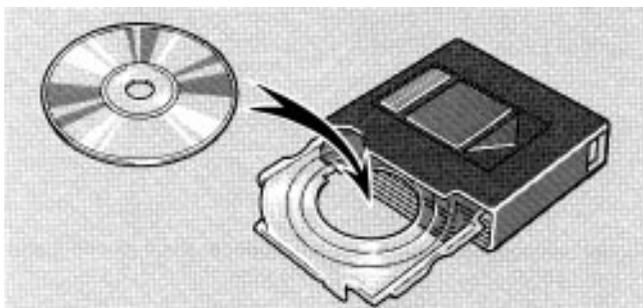
**(a) Inserting compact discs**



**1. Open the cover to eject the magazine.**

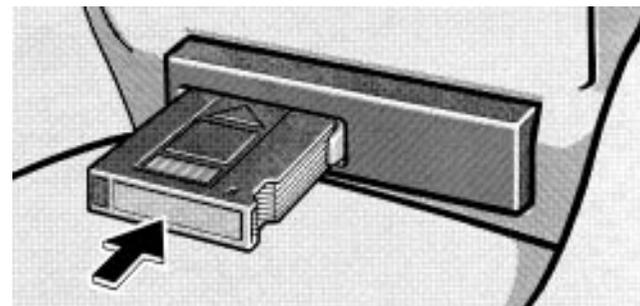


**2. Pull out the tray while pushing the lock release button.**



**3. Put a disc on the tray with its label face down and push the tray back into the magazine.**

If the label faces up, the disc cannot be played. In this case, "Err1" and the disc number appears on the display.



**4. Insert the magazine into the player as indicated by the arrow head on the magazine and close the cover.**

When the magazine is set completely, the system will be in a "Load" cycle for approximately 20 seconds while the system searches for discs in the magazine. Upon completion of this cycle, the CD unit will be ready to play. If the "CD" button is pushed during the "Load" cycle, "LOAD" appears on the display until the system has completed the load cycle, after which the system will begin normal play.

## AUDIO

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### (b) Playing a compact disc

1. Push the **CD** (CD) button after setting the magazine in the player. "CD" then appears on the display.

The discs set in the magazine are played continuously, starting with the disc on top. The disc number of the disc currently being played, the track number and the time from the beginning of the program will appear on the display.

When play of one disc ends, the first program of the following disc starts. When play of the final disc ends, play of the first disc starts again.

The compact disc player can also be turned on by pushing the "PWR.VOL" knob if the compact disc player was being played when the system was turned off.

If the radio or cassette tape player is on when you push the **CD** (CD) button, the radio or cassette tape player will automatically turn off.

2. Turn the "PWR. VOL" knob to adjust the volume.

3. Select your program. (See "(c) Selecting a compact disc" and "(d) Selecting a program".)

4. Adjust the tone and balance on the radio. (See "(d) Adjusting the tone" and "(e) Adjusting the sound balance" of radio operation.)

5. Push the "PWR. VOL" knob to turn the compact disc player off.

### (c) Selecting a compact disc

Push the **1 2** (DISC) button to select the disc number.

Push the **1 2** (DISC) button on either side several times until the desired disc number appears on the display. As you release the button, the player will start playing the selected disc from the beginning.

### (d) Selecting a program

**Automatic program selection:** Use for direct access to a desired program.

Push the **TRACK** (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.

### Manual program selection:

Push either of the **3 4** (FAST) button and hold it to fast forward or reverse the disc. Releasing the button starts the play from that position.

**Track scan selection:** Use for track-to-track scanning:

Push the **SCAN** (SCAN) button briefly. With "SCAN" on the display, the compact disc player will play the next track for 10 seconds, then scan again. To select a track, push the **CD** (CD) or **SCAN** (SCAN) button. If the player reaches the end of the disc, it will continue scanning at track1. After all the tracks are scanned in one pass, normal play returns.

**Disc scan selection:** Use for disc-to-disc scanning.

Push the **SCAN** (SCAN) button until you hear a beep. With "D.SCAN" on the display, the program at the beginning of each disc will be played for 10 seconds, the scan again. To select a disc, push the **CD** (CD) or **SCAN** (SCAN) button. If the player reaches the end of the disc, it will continue scanning at track 1. After all the discs in the magazine are scanned in one pass, the scan function is cancelled.

**Disc scan selection:** Use for disc-to-disc scanning.

Push the **SCAN** (SCAN) button. With "SCAN" on the display, the program at the beginning of each disc will be displayed for 10 seconds. To continue listening to the program of your choice, push the **CD** (CD) button or **SCAN** (SCAN) button.

#### (e) Other compact disc player functions

**"RPT" button:** Use for automatic repeat of the program currently being listened to.

Push the **5 6** (RPT) button on the left side while the program is being played. As this is done, "RPT" will appear on the display. When the program is finished, the disc will automatically go back to the beginning of the program and the program will be played again. To cancel it, push the button once again.

**"RANDOM" button:** Use for automatic program selection and play by the system.

When the **5 6** (RANDOM) button is pushed on the right side, "RND" appears on the display and the system selects a program on the disc which is set and plays it. To cancel it, push the button once again.

When a program is skipped or the system is inoperative, push the **CD** (CD) button to reset.

#### (f) If the player malfunctions

If "WAIT" appears on the display, audio signals of the disc cannot be read or the system has trouble. Push the **CD** (CD) button once again.

If the player does not operate, check that the disc surface is not soiled or damaged. If the disc is O.K., the following two causes are possible.

- Condensation may have occurred on the internal mechanism of the player.  
Open the trunk to let air circulate.
- The temperature of the player's internal mechanism is raised because of high external temperature.  
Remove the magazine from the player to cool it.

If the player still does not operate, take it to your Lexus dealer.

## AUDIO

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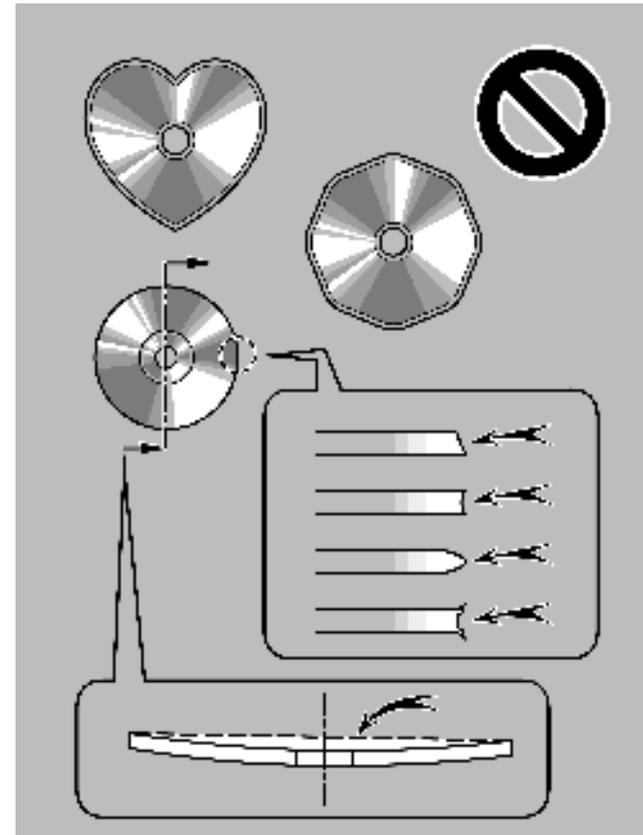
### Compact disc player operating tips



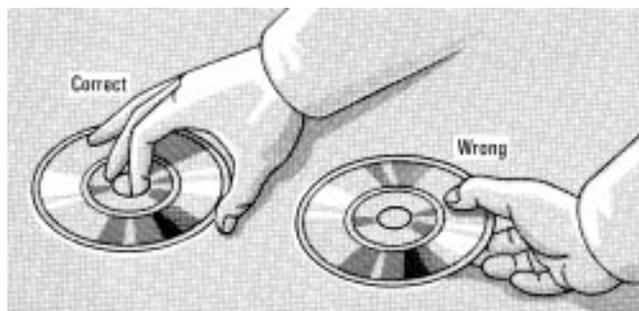
Use only compact discs labeled as shown. The player is intended for use with 12 cm (4.7 in.) discs only.

Never attempt to disassemble or oil any part of the player unit. Do not insert any object other than a disc into the magazine.

There are no user-serviceable parts inside the compact disc player.



Your automatic changer cannot play special shaped or low-quality compact discs such as those shown here. Do not use them as the changer could be damaged.



**Do not allow the disc to bear any fingerprints, stickers or pen marks on the surfaces.**

Hold the disc only on the edge or center hole.

**When not in use, take the disc out of the player, put it back into its case and store it away from dust, heat, damp and direct sunlight.**

Leaving discs on the dashboard in the sun may damage or warp them.



**If the disc gets dirty, wipe it clean with a soft cloth, wiping radially out from the center.**

Do not use a conventional record cleaner or anti-static record preservative.

**CAUTION**

**Compact disc players use an invisible laser beam which could cause hazardous radiation exposure if directed outside the unit. Be sure to operate the player correctly.**

## **SECTION 3-1**

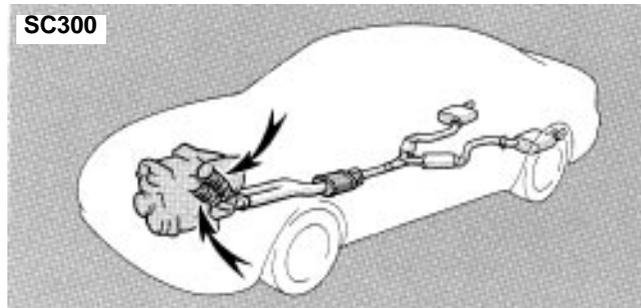
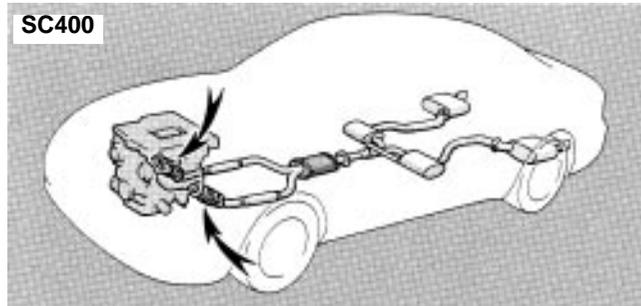
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### **STARTING AND DRIVING**

#### **Starting and driving**

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## THREE-WAY CATALYTIC CONVERTER



Three-way catalytic converters are emission control devices installed in the exhaust system.

The three-way catalytic converter located at the confluence of exhaust pipes 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 allow the engine to run at idle speed for more than 20 minutes.*
- *Avoid racing the engine.*
- *Do not push-start or pull-start your vehicle.*

## STARTING AND DRIVING

---

- *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 or fuel system could cause an extremely high three-way catalytic converter 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 / Maintenance Schedule".*

## 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 run the engine in a garage or enclosed area except for the time needed to drive the vehicle in or out. The exhaust gases cannot escape, making this a particularly dangerous situation.
- Do not remain for a long time in a parked vehicle with the engine running. If it is unavoidable, however, do so only in an unconfined area and adjust the heating or cooling system to force outside air into the vehicle.
- Keep the trunk lid closed while driving. An open or unsealed trunk lid 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 trunk lid closed. Have the cause immediately located and corrected.

### BEFORE STARTING THE ENGINE

1. Check the area around the vehicle before entering it.
2. Adjust seat position, seatback 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 WITH STEERING LOCK



"START" – Starter motor on. The key will return to the "ON" position when released.

For starting tips, see page 139.

"ON" – Engine on and all accessories on.

This is the normal driving position.

#### NOTICE

*Do not leave the key in the "ON" position if the engine is not running. The battery will discharge and the electronic ignition system could be damaged.*

## STARTING AND DRIVING

**"ACC" – Accessories such as the radio operate, but the engine 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" – Engine is off and the steering wheel is locked. The ignition key can be removed only at this position.**

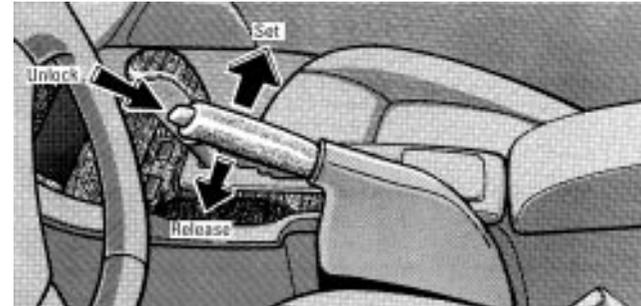
To turn the key from "ACC" to the "LOCK" position, you must put the transmission selector lever in the "P" position.

Once you remove the key, the engine immobiliser system is automatically set. See "Engine immobiliser system" on page 13.

When starting the engine, 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.

If, in an emergency, you must turn the engine off while the vehicle is moving, turn the key only to "ACC".

## PARKING BRAKE



**To set: Pull up the lever. For better holding power, first depress the brake pedal and hold it while setting the parking brake.**

**To release: Pull up the lever slightly, press the thumb button, then lower the lever.**

Before leaving your vehicle, firmly apply the parking brake.



### CAUTION

**Before driving, make sure the parking brake is fully released and that the parking brake reminder light is off.**

## HOW TO START THE ENGINE

### Before cranking

1. Apply the parking brake firmly.
2. Turn off unnecessary lights and accessories.
3. Put the selector lever in "P". If you need to restart the engine while the vehicle is moving, put the selector lever in "N". A starter safety device will prevent the starter from operating if the selector lever is in any drive position.
4. Depress the brake pedal and hold it to the floor until you are ready to drive off.

### Starting the engine

Before starting the engine, be sure to follow the instructions in "Before cranking".

### Normal starting procedure

The multiport fuel injection system/sequential multiport fuel injection system in your engine automatically controls the proper air–fuel mixture for starting. You can start a cold or hot engine as follows:

1. With your foot off the accelerator pedal, crank the engine by turning the key to "START". Release it when the engine starts.
2. After the engine runs for about 10 seconds, you are ready to drive.

If the weather is below freezing, let the engine warm up for a few minutes before driving. Do not leave the vehicle while the engine is warming up.

### If the engine stalls ...

Simply restart it , using the correct procedure given in normal starting.

### If the engine will not start

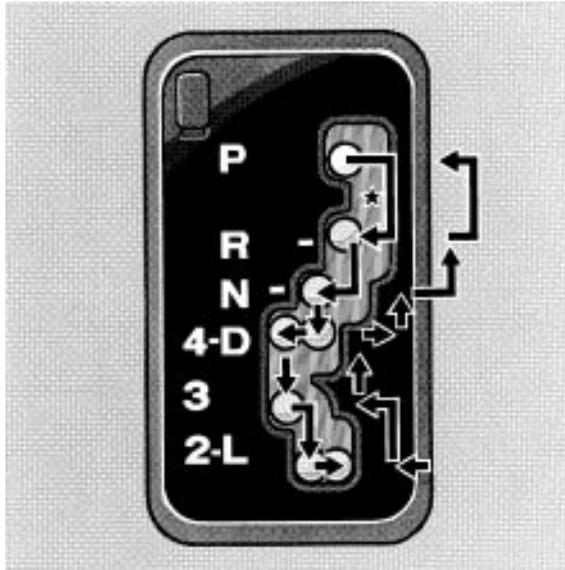
See "If your vehicle will not start" on page 179.

### NOTICE

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

## AUTOMATIC TRANSMISSION (SC400)

Your automatic 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, engine starting and key removal position

**R:** Reverse position

**N:** Neutral position

**D:** Normal driving position (Shifting into overdrive possible)

**4:** Position for engine braking (Shifting into overdrive not possible)

When the cruise control is being used, even if you downshift from "D" to "4", engine braking will not be applied because the cruise control is not cancelled. For the operation to decrease the vehicle speed, see page 157.

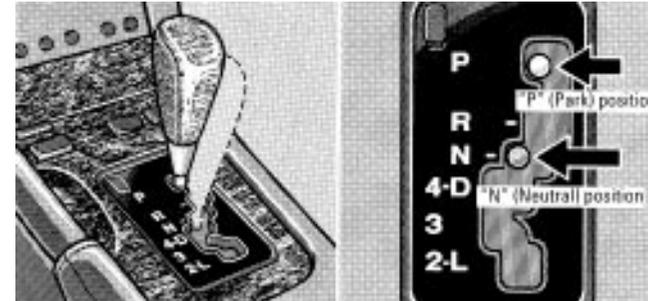
**3, 2:** Position for more powerful engine braking

**L:** Position for maximum engine braking

Correct use of the automatic transmission is explained in the following parts.

- (a) Normal driving
- (b) Using engine braking
- (c) Using the "3", "2" and "L" positions
- (d) Backing up
- (e) Parking
- (f) Good driving practice
- (g) Rocking your vehicle if stuck
- (h) If you cannot shift the selector lever

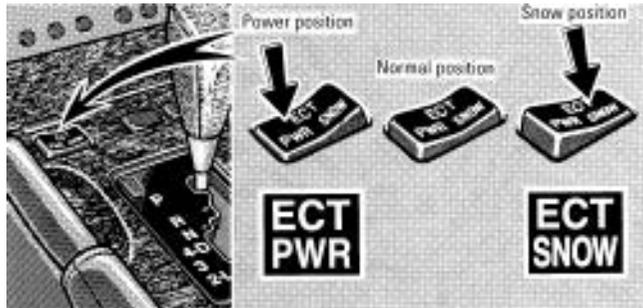
**(a) Normal driving**



**1. Start the engine as instructed in "How to start the engine" on page 139.**

The transmission must be in "P" or "N". The engine will not start in any drive position even if the ignition key is turned to "START".

## STARTING AND DRIVING



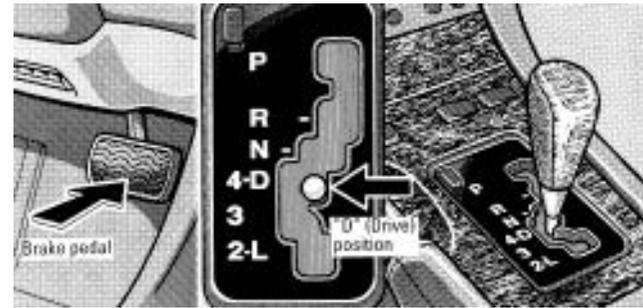
**2. Set the driving pattern selector switch to the "Normal" position.**

Your transmission has a driving pattern selector switch which allows you to select "Power", "Normal" or "Snow" mode to suit your driving condition. For ordinary driving, Lexus recommends that you use the "Normal" position to improve fuel economy.

**3. For more powerful acceleration and sporty driving, use the "Power" position.**

In the "Power" position, the "ECT PWR" light in the instrument cluster is on and the transmission is shifted up at higher vehicle speeds and shifted down more responsively than in the "Normal" position.

**For "Snow" mode, see "Electronic Throttle Control System" on page 155.**



**4. 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. Only in this position, shifting into the overdrive gear is possible. However, while the engine coolant temperature is low, the transmission will not shift into the overdrive gear even in the "D" position. (See "(b) Using engine braking" and "(f) Good driving practice" for exceptions.)



### CAUTION

**Never put your foot on the accelerator pedal while shifting.**

**5. Release the parking brake and brake pedal. Depress the accelerator pedal slowly for smooth starting.**

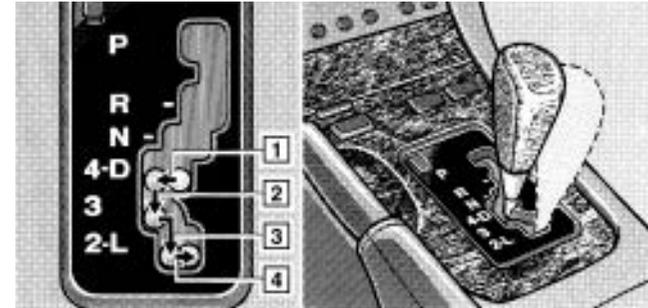
In normal cruising, the vehicle will start in the first gear and automatically shift up to the most suitable gear. On inclines, declines or winding roads, etc., the vehicle shifts up and down automatically according to the running conditions to obtain the suitable driving power and engine braking.

When the lever is in the "4" position, the automatic transmission system will select the most suitable gear for the running conditions such as hill climbing, hard towing, etc.

If you need to accelerate rapidly while driving, depress the accelerator pedal to the full throttle position. This provides more acceleration by automatically downshifting the transmission to the next lower gear or beyond, depending on the vehicle speed.

If engine braking is needed, such as in descending a long hill, see "(b) Using engine braking".

**(b) Using engine braking**



To use the braking power of the engine, downshift the transmission in the way described below:

- 1** Shift into the "4" position. The transmission will downshift to the fourth gear and engine braking will be obtained.  
When the cruise control is being used, even if you downshift from "D" to "4", engine braking will not be applied because the cruise control is not cancelled. If you need to decrease the vehicle speed, see page 157.
- 2** Shift into the "3" position. The transmission will downshift to the third gear when the vehicle speed is or becomes lower than 149 km/h (93 mph) and more powerful engine braking will be obtained.

## STARTING AND DRIVING

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- 3 Shift into the "2" position. The transmission will downshift to the second gear when the vehicle speed is or becomes lower than 97 km/h (61 mph) and more powerful engine braking than that of "3" position will be obtained.
- 4 Shift into the "L" position. The transmission will downshift to the first gear when the vehicle speed is or becomes lower than 18 km/h (11 mph) and maximum engine braking will be applied.



### CAUTION

Be careful when downshifting on a slippery surface. The abrupt change in engine speed could cause the vehicle to spin or skid.

### (c) Using the "3", "2" and "L" positions

The "3", "2" and "L" positions are used for strong engine braking as described previously.

With the selector lever in "3", "2" or "L", you can start the vehicle in motion as with the lever in "D".

With the selector lever in "3" or "2", the vehicle will start in the first gear and automatically shift to the third or second gear.

With the selector lever in "L", the transmission is engaged in the first gear.

### NOTICE

- **Be careful not to overrev the engine. Watch the tachometer to keep engine rpm from going into the red zone. The approximate maximum allowable speed for each position is given below for your reference:**

"3" ... 153 km/h (96 mph)

"2" ... 100 km/h (63 mph)

"L" ... 65 km/h (41 mph)

- **Do not continue hill climbing or hard towing for a long time in the "3", "2" or "L" position. This may cause severe automatic transmission damage from overheating. To prevent such damage, "4" position should be used in hill climbing or hard towing.**

**(d) Backing up**

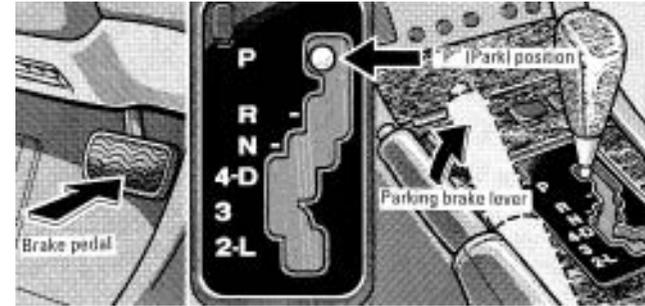


1. Bring the vehicle to a complete stop.
2. With the brake pedal held down with your foot, shift the selector lever to the "R" position.

**NOTICE**

***Never shift into reverse while the vehicle is moving.***

**(e) Parking**



1. Bring the vehicle to a complete stop.
2. Pull the parking brake lever up 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.



**CAUTION**

**While the vehicle is moving, never attempt to move the selector lever into "P" under any circumstances. Serious mechanical damage and loss of vehicle control may result.**

## STARTING AND DRIVING

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### (f) Good driving practice

- If the transmission repeatedly shifts up and down between the fourth and overdrive gears when climbing a gentle slope, shift the selector lever to the "4" position. Be sure to shift the selector lever to the "D" position after climbing the slope.
- When towing a trailer, in order to maintain efficient engine braking and electrical charging performance, do not use overdrive. The selector lever must be in the "4" position.



#### CAUTION

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

#### NOTICE

*Do not hold the vehicle on an upgrade with the accelerator pedal. This can cause the transmission to overheat. Always use the brake pedal or parking brake.*

### (g) Rocking your vehicle if stuck



#### CAUTION

**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. Do not attempt this procedure if people or objects are anywhere near the vehicle. During the rocking operation the vehicle may suddenly move forward or backward as it becomes un-stuck, 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.*

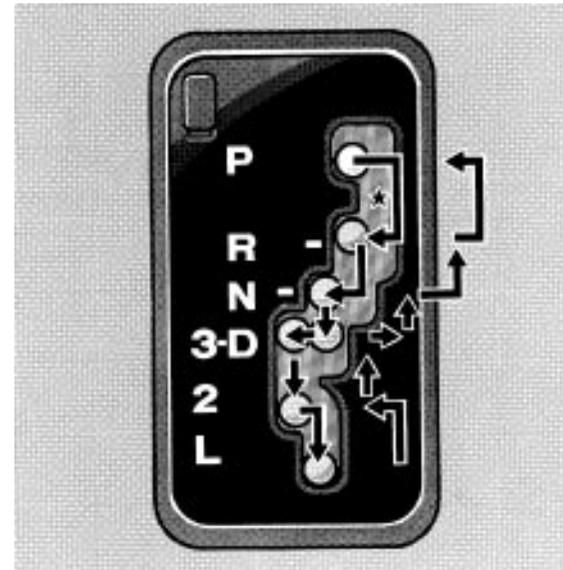
- *Do not depress the accelerator pedal while shifting the selector lever or before the transmission is completely shifted to forward or reverse gear.*
- *Do not race the engine and avoid spinning the wheels.*
- *If your vehicle remains stuck after rocking the vehicle several times, consider other ways such as towing.*

**(h) 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 automatic transmission selector lever" on page 195.

**AUTOMATIC TRANSMISSION  
(SC300)**

Your automatic 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. (★)



## STARTING AND DRIVING

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► *The shift position is displayed on the instrument cluster.*

**P:** Parking, engine starting and key removal position

**R:** Reverse position

**N:** Neutral position

**D:** Normal driving position (Shifting into overdrive possible)

**3:** Position for engine braking (Shifting into overdrive not possible)

When the cruise control is being used, even if you downshift from "D" to "3", engine braking will not be applied because the cruise control is not cancelled. For the operation to decrease the vehicle speed, see page 157.

**2:** Position for more powerful engine braking

**L:** Position for maximum engine braking

**Correct use of the automatic transmission is explained in the following parts.**

(a) Normal driving

(b) Using engine braking

(c) Using the "2" and "L" positions

(d) Backing up

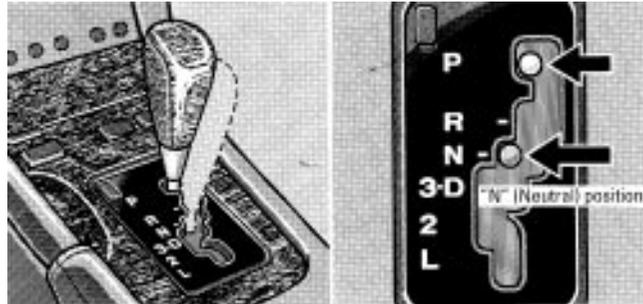
(e) Parking

(f) Good driving practice

(g) Rocking your vehicle if stuck

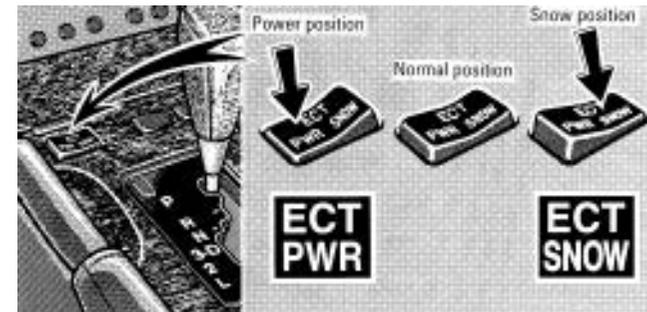
(h) If you cannot shift the selector lever

(a) Normal driving



1. Start the engine as instructed in "How to start the engine" on page 139.

The transmission must be in "P" or "N". The engine will not start in any drive position even if the ignition key is turned to "START".



2. Set the driving pattern selector switch to the "Normal" position.

Your transmission has a driving pattern selector switch which allows you to select "Power", "Normal" or "Snow" mode to suit your driving condition. For ordinary driving, Lexus recommends that you use the "Normal" position to improve fuel economy.

3. For more powerful acceleration and sporty driving, use the "Power" position.

In the "Power" position, the "ECT PWR" light in the instrument cluster is on and the transmission is shifted up at higher vehicle speeds and shifted down more responsively than in the "Normal" position.

For "Snow" mode, see "Electronic Throttle Control System" on page 155.

## STARTING AND DRIVING



**4. 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. Only in this position, shifting into the overdrive gear is possible. However, while the engine coolant temperature is low, the transmission will not shift into the overdrive gear even in the "D" position. (See "(b) Using engine braking" and "(f) Good driving practice" for exceptions.)



### CAUTION

**Never put your foot on the accelerator pedal while shifting.**

**5. Release the parking brake and brake pedal. Depress the accelerator pedal slowly for smooth starting.**

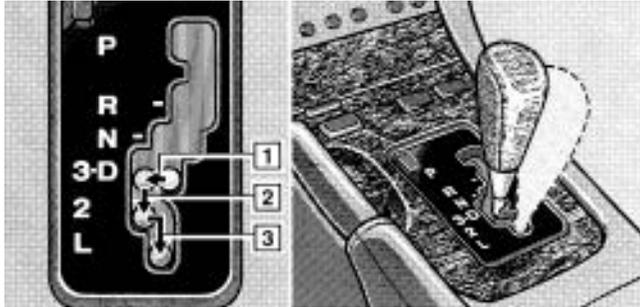
In normal cruising, the vehicle will start in the first gear and automatically shift up to the most suitable gear. On inclines, declines or winding roads, etc., the vehicle shifts up and down automatically according to the running conditions to obtain the suitable driving power and engine braking.

When the lever is in the "3" position, the automatic transmission system will select the most suitable gear for the running conditions such as hill climbing, hard towing, etc.

If you need to accelerate rapidly while driving, depress the accelerator pedal to the full throttle position. This provides more acceleration by automatically downshifting the transmission to the next lower gear or beyond, depending on the vehicle speed.

If engine braking is needed, such as in descending a long hill, see "(b) Using engine braking".

**(b) Using engine braking**



To use the braking power of the engine, downshift the transmission in the way described below:

- 1 Shift into the "3" position. The transmission will downshift to the third gear and engine braking will be obtained.  
When the cruise control is being used, even if you downshift from "D" to "3", engine braking will not be applied because the cruise control is not cancelled. If you need to decrease the vehicle speed, see page 157.
- 2 Shift into the "2" position. The transmission will downshift to the second gear when the vehicle speed is or becomes lower than 119 km/h (74 mph) and more powerful engine braking will be obtained.

- 3 Shift into the "L" position. The transmission will downshift to the first gear when the vehicle speed is or becomes lower than 56 km/h (35 mph) and maximum engine braking will be applied.

 **CAUTION**

**Be careful when downshifting on a slippery surface. The abrupt change in engine speed could cause the vehicle to spin or skid.**

**(c) Using the "2" and "L" positions**

The "2" and "L" positions are used for strong engine braking as described previously.

With the selector lever in "2" or "L", you can start the vehicle in motion as with the lever in "D".

With the selector lever in "2", the vehicle will start in the first gear and automatically shift to the second gear.

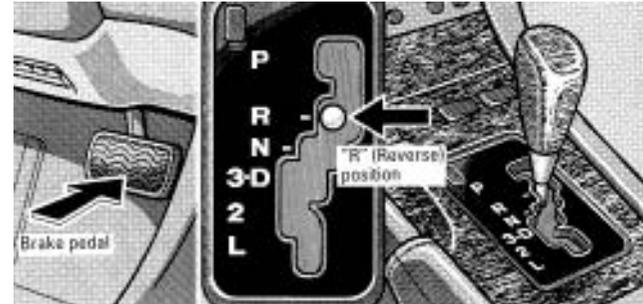
With the selector lever in "L", the transmission is engaged in the first gear.

## STARTING AND DRIVING

### NOTICE

- **Be careful not to overrev the engine. Watch the tachometer to keep engine rpm from going into the red zone. The approximate maximum allowable speed for each position is given below for your reference:**
  - "2" ... 107 km/h (67 mph)
  - "L" .... 56 km/h (35 mph)
- **Do not continue hill climbing or hard towing for a long time in the "2" or "L" position. This may cause severe automatic transmission damage from overheating. To prevent such damage, "3" position should be used in hill climbing or hard towing.**

### (d) Backing up

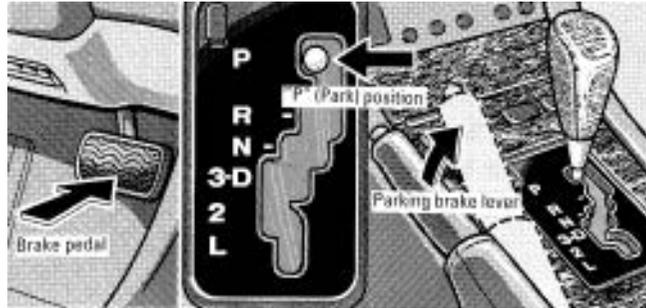


1. Bring the vehicle to a complete stop.
2. With the brake pedal held down with your foot, shift the selector lever to the "R" position.

### NOTICE

**Never shift into reverse while the vehicle is moving.**

**(e) Parking**



1. Bring the vehicle to a complete stop.
2. Pull the parking brake lever up 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.

 **CAUTION**

While the vehicle is moving, never attempt to move the selector lever into "P" under any circumstances. Serious mechanical damage and loss of vehicle control may result.

**(f) Good driving practice**

- If the transmission repeatedly shifts up and down between the fourth and overdrive gears when climbing a gentle slope, shift the selector lever to the "3" position. Be sure to shift the selector lever to the "D" position after climbing the slope.
- When towing a trailer, in order to maintain efficient engine braking and electrical charging performance, do not use overdrive. The selector lever must be in the "3" position.

 **CAUTION**

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

**NOTICE**

*Do not hold the vehicle on an upgrade with the accelerator pedal. This can cause the transmission to overheat. Always use the brake pedal or parking brake.*

## STARTING AND DRIVING

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### (g) Rocking your vehicle if stuck



#### CAUTION

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. Do not attempt this procedure if people or objects are anywhere near the vehicle. During the rocking operation the vehicle may suddenly move forward or back as it becomes un-stuck, 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.*

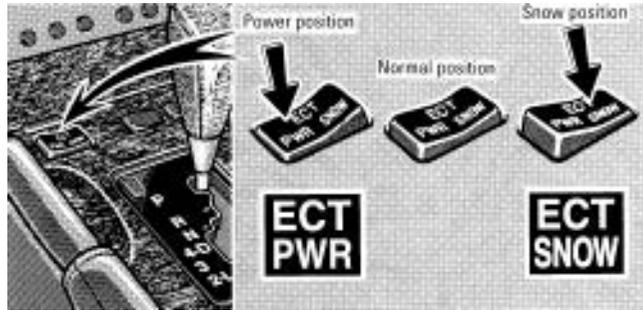
- *Do not depress the accelerator pedal while shifting the selector lever or before the transmission is completely shifted to forward or reverse gear.*
- *Do not race the engine and avoid spinning the wheels.*
- *If your vehicle remains stuck after rocking the vehicle several times, consider other ways such as towing.*

### (h) 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 automatic transmission selector lever" on page 195.

## ELECTRONIC THROTTLE CONTROL SYSTEM

The electronic throttle control system always maintains appropriate engine output in relation to the accelerator opening in all driving conditions.



The electronic throttle control system has 3 modes: Normal, Power and Snow modes.

**Normal mode:** For ordinary driving, Lexus recommends that you use the normal mode to improve fuel economy.

**Power mode:** For more powerful acceleration and sporty driving.

In the power mode, the "ECT PWR" light in the instrument cluster is on and the transmission is shifted up at higher vehicle speeds and shifted down more responsively than in the normal mode.

To return to the normal mode, push the driving pattern selector switch lightly on the "SNOW" side.

**Snow mode:** For slippery road surfaces such as in snow. In this mode, the spinning of the rear wheels is controlled appropriately.

When you push the driving pattern selector switch on the "SNOW" side, the snow mode is turned on and the "ECT SNOW" light in the instrument cluster comes on.

To return to the normal mode, push the driving pattern selector switch on the "SNOW" side again.

When you turn the ignition switch off in the snow mode, the mode automatically changes to the normal mode.

## STARTING AND DRIVING

### 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.

Your cruising speed can be maintained although a slight speed change may occur when driving up or down a gradient, within the limits of engine performance. On steeper hills, a great speed change will occur so it is better to drive without the cruise control.

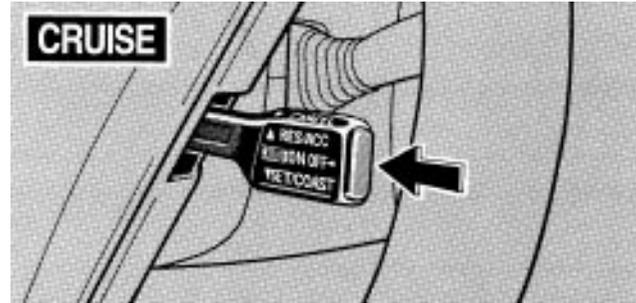
When the cruise control is on, the driving pattern of the automatic transmission is fixed in the normal position, regardless of the position of the selector switch.



#### 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.

### Turning on the system



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.

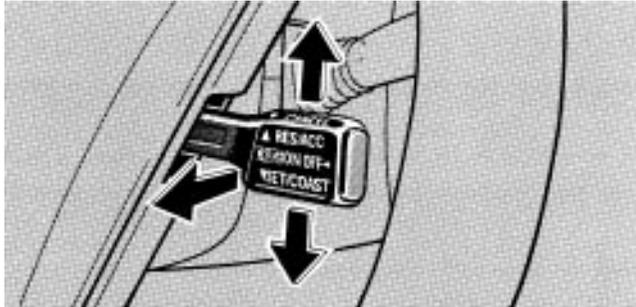
When the ignition key is turned off, the main switch is also automatically turned off. To use the cruise control again, push the main switch again to turn it on.



#### CAUTION

To avoid accidental cruise control engagement, keep the main switch off when not using the cruise control.

### Setting at a desired speed



The transmission must be in "D" before you set the cruise control speed.

Bring the vehicle to the desired speed, press the control lever downward in the "SET/COAST" 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.

### Cancelling the preset speed

You can cancel the preset speed by any 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 out for other than these reasons, have your vehicle checked by your Lexus dealer at the earliest opportunity.

### Resetting to a faster speed

Press the control lever upward in the "RES/ACC" 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/ACC" direction quickly within 0.6 seconds.

However, a quicker way to reset is to accelerate the vehicle and then press the control lever downward in the "SET/COAST" direction.

### Resetting to a slower speed

Press the control lever downward in the "SET/COAST" 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.

## STARTING AND DRIVING

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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/COAST" direction quickly within 0.6 seconds.

However, a quicker way to reset is to depress the brake pedal and then press the control lever downward in the "SET/COAST" direction.

Even if you downshift the transmission from "D" to "4" (SC400) or from "D" to "3" (SC300) with the cruise control on, engine braking will not be applied 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.

### Resuming the preset speed

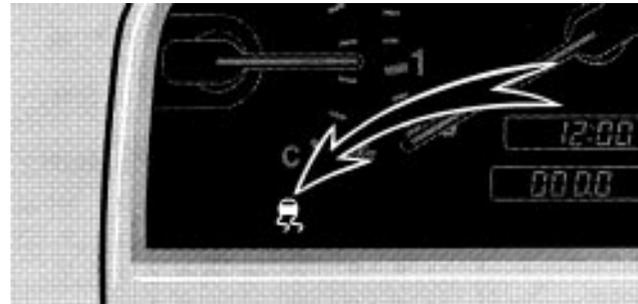
If the preset speed is cancelled by pulling the control lever or by depressing the brake pedal, pushing the lever up in the "RES/ACC" direction will restore the speed set prior to cancellation. However, once the vehicle speed falls below about 40 km/h (25 mph), the preset speed will not be resumed.

### Cruise control failure warning

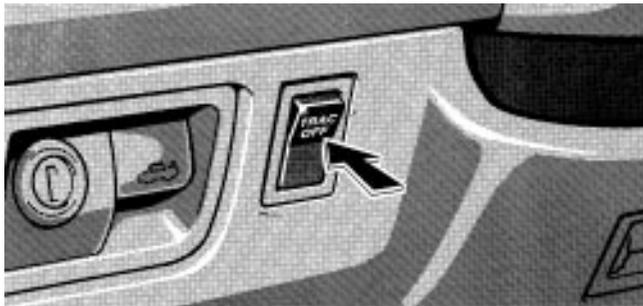
If the "CRUISE" indicator light in the instrument cluster flashes five times and then goes out when using the cruise control, it means that there is trouble in the cruise control system. Contact your Lexus dealer.

## TRACTION CONTROL SYSTEM

The traction control system automatically helps control the spinning of the rear wheels which may occur when accelerating on slippery road surfaces, thus assisting driver to control the driving power of the rear wheels.



When you turn the ignition switch on, this system always turns on. Leave the system on during ordinary driving so that it can operate when needed. When traction control is applied, the slip indicator blinks.



You can turn off the traction control system by pushing the "TRAC OFF" switch. The "TRAC OFF" indicator/warning light will then come on. Pushing the "TRAC OFF" switch a second time turns the system back on and extinguishes the "TRAC OFF" indicator/warning light.

You may hear a slight clicking noise in the engine compartment when the engine is started. This means that the traction control system is in the self-check mode, and does not indicate malfunction.

When the traction control system is operating, you may feel vibration of your vehicle, caused by operation of the brakes. This indicates the system is functioning properly.

When getting the vehicle out of mud or new snow, etc. the traction control system will help operate to prevent the wheels from spinning.

### Traction control failure warning

If the "TRAC OFF" indicator/warning light flashes, contact your Lexus dealer as soon as possible. There may be trouble in the traction control system.



#### CAUTION

**Under certain slippery road conditions, full traction of the vehicle and power to the rear 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 will cause the vehicle to lose traction. 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 an appropriate and cautious pace.**

## STARTING AND DRIVING

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### BRAKE SYSTEM

The tandem master cylinder brake system is a hydraulic system with two separate sub-systems. If either sub-system should fail, the other will still work. However, the pedal will be harder to press, and your stopping distance will be longer. 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 booster

The brake booster uses engine vacuum to power-assist the brakes. If the engine should quit while you are driving, you can bring the vehicle to a stop with normal pedal pressure. There is enough reserved vacuum for one or two stops but no more!



#### CAUTION

- **Do not pump the brake pedal if the engine stalls. Each push on the pedal uses up your reserved vacuum.**
- **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 be longer.**

### Anti-lock brake system

**The anti-lock brake system is designed to help prevent lock-up of the wheels during a sudden brake or braking on slippery road surfaces. This assists in providing 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, just hold the brake pedal down more firmly. Especially, in a panic stop, you need to keep it depressed more firmly, and do not pump the brake. Pumping the brake pedal makes the stopping distance longer.

The anti-lock brake system becomes operative after the vehicle has accelerated to a speed in excess of approximately 10 km/h (6 mph). It stops operating when the vehicle decelerates to a speed below approximately 5 km/h (3 mph).

Depressing the brake pedal on slippery road surfaces such as on the manhole cover, the steel plate under the construction, joints in the bridge, etc. on a rainy day tends to activate the anti-lock brake system.

You may hear a click or motor sound in the engine compartment for a few seconds when the engine is started or just after the vehicle is started. This means that the anti-lock brake system is in the self-check mode, and does not indicate a malfunction.

**When the anti-lock brake system is activated, the following conditions may occur, however, do not indicate a malfunction of the system:**

- You may hear the anti-lock brake system 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 anti-lock brake system activation, the brake pedal may move a little to the forward.



### CAUTION

**Do not overestimate the anti-lock brake system:** Although the anti-lock brake system assists in providing vehicle control, it is still important to drive with all due care and maintain a moderate speed and safe distance from the vehicle in front of you, because there are limits to the vehicle stability and effectiveness of steering wheel operation even with the anti-lock brake system on.

**If tires 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.**

**Anti-lock brake system is not designed to shorten the stopping distance:** Always drive at the moderate speed and maintain a safe distance from the vehicle in front of you. Compared with vehicles not fitted with an anti-lock brake system, your vehicle may require a longer stopping distance in the following cases:

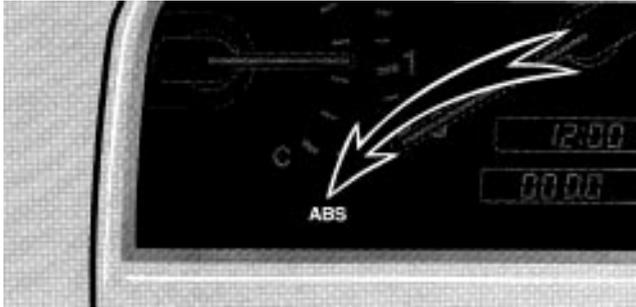
- Driving on rough, gravel or snow-covered roads.
- Driving with tire chains installed.
- Driving over the steps such as the joints on the road
- Driving on roads where the road surface is pitted or has other differences in surface height.

**Install all 4 tires of specified size at designated pressure:** The anti-lock brake system detects vehicle speeds using the speed sensors for respective wheels' turning speeds. The use of tires other than specified may fail to detect the accurate turning speed, resulting in a longer stopping distance.

## STARTING AND DRIVING

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### "ABS" warning light



The light comes on with the ignition key turned to "ON". If the anti-lock brake system works properly, the light goes out after a few seconds. Thereafter, if the system malfunctions, the light comes on.

When the "ABS" warning light is on (and the brake system warning light is off), the anti-lock brake system and/or the traction control system do/does not operate, but the brake system still operates conventionally.

When the "ABS" warning light is on (and the brake system warning light is off), the anti-lock brake system does not operate so that the wheels could lock up during a sudden braking or braking on slippery road surfaces.

**If the following conditions occur, this indicates a malfunction somewhere in the parts monitored by the warning light system. Contact your Lexus dealer as soon as possible to service the vehicle.**

- The light does not come on with the ignition key turned to "ON", or remains on.
- The light comes on while driving.

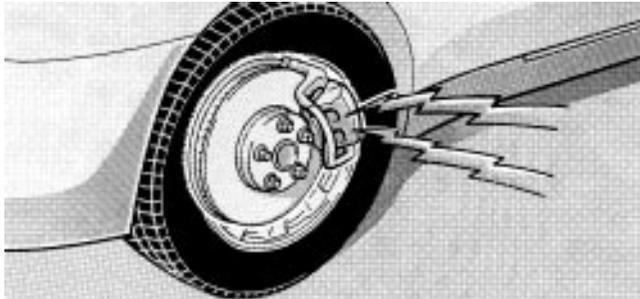
If the light lit during driving goes out and does not come on again, it is a normal operation.

### **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.

## 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.

## STARTING AND DRIVING

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### 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.



## **SECTION 3-2**

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### **STARTING AND DRIVING**

#### **Driving tips**

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## 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:

- Do not drive over 88 km/h (55 mph).
- Avoid overrevving. Maintain engine speed between 2000 and 4000 rpm.
- Avoid full-throttle starts.
- Try to avoid hard stops during the first 300 km (200 miles).
- Do not drive for a long time at any single speed, either fast or slow.
- Do not tow a trailer during the first 800 km (500 miles).

## 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 resulting in tire bursts.
- 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, 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 engine is running.**

## DRIVING TIPS

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- 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 151.
- Be careful when accelerating, upshifting, downshifting or braking on a slippery surface. The abrupt change in engine speed, such as sudden acceleration or engine braking, could cause the vehicle to spin or skid.
- 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.

## WINTER DRIVING TIPS

### **Make sure you have a proper freeze protection of engine coolant.**

Your coolant must contain ethylene-glycol type coolant for a proper corrosion protection of aluminum components. Use "Toyota Long Life Coolant" or equivalent. See "Checking the engine coolant level" on page 226 for instructions.

### **NOTICE**

***Do not use alcohol type antifreeze or plain water alone.***

When it is extremely cold, we recommend to use 60% solution for your Lexus, to provide protection down to about  $-50^{\circ}\text{C}$  ( $-58^{\circ}\text{F}$ ). Do not use more than 70% solution for better coolant performance.

### **Check the condition of the battery and cables.**

Cold temperatures reduce the capacity of any battery, so it must be in top shape to provide enough power for winter starting. Page 248 tells you how to visually inspect the battery. Your Lexus dealer and most service stations will be pleased to check the battery charge level.

### **Make sure the engine oil viscosity is suitable for the cold weather.**

See page 225 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.

**Check the electronic ignition system for loose connections or obvious damage.**

**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 front 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.

## TRAILER TOWING

Your vehicle is designed primarily as a passenger-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.

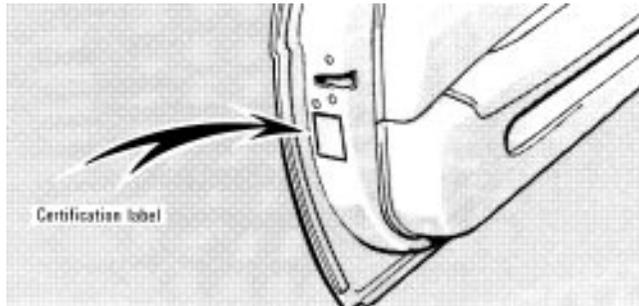
### Weight limits

**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.

## DRIVING TIPS

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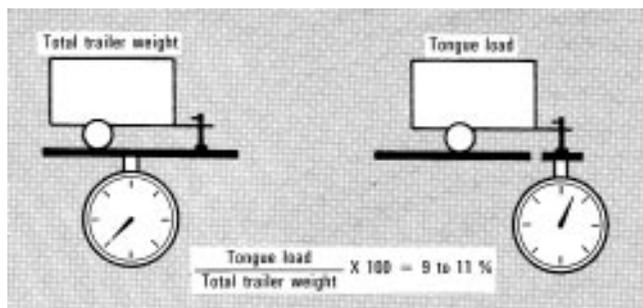


- The gross vehicle weight must not exceed the Gross Vehicle Weight Rating (GVWR) indicated on the Certification Label. The gross vehicle weight is the sum weight of the unloaded vehicle, driver, passengers, luggage, hitch and trailer tongue load. It also includes the weight of any special equipment 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.



### CAUTION

- The total trailer weight (trailer weight plus its cargo load) must not exceed 726 kg (1600 lb.). Exceeding this weight is dangerous.
- 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 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 73 kg (160 lb.).
- 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.

### 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.
- Remove the trailer hitch whenever you are not towing a trailer so that the rear license plate can be seen clearly.

### 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.*

## DRIVING TIPS

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### 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.

### Tires

- Ensure that your vehicle's tires are properly inflated. Adjust the tire pressure to the recommended cold tire pressure indicated below:
  - SC400, SC300 – Front 220 kPa (2.2 kgf/cm<sup>2</sup> or bar, 32 psi)  
Rear 220 kPa (2.2 kgf/cm<sup>2</sup> or bar, 32 psi)
- The trailer tires should be inflated to the pressure recommended by the trailer manufacturer in respect to the total trailer weight.

### Trailer lights

- 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 (engine, transmission, differential, 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 / Maintenance Schedule”.
- 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 regulation. 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

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- 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.
- In order to maintain efficient engine braking and electrical charging performance, do not use overdrive. Transmission must be in the "4" position (SC400) or in the "3" position (SC300).
- 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 182 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 engine.

When restarting out after parking on a slope:

1. With the transmission in "P" position, start the engine. Be sure to keep the brake pedal depressed.

2. Shift into the "3", "2", "L" 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

Getting more kilometer/mileage from a liter/gallon of fuel 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 unneeded weight in your vehicle.** Excess weight puts a heavier load on the engine, causing greater fuel consumption.
- **Avoid lengthy warm-up idling.** Once the engine is running smoothly, begin driving – but gently. Remember, however, that on cold winter days this may take a little longer.
- **Accelerate slowly and smoothly.** Avoid jackrabbit starts.
- **Avoid long engine idling.** If you have a long wait and you are not in traffic, it is better to turn off the engine and start again later.
- **Avoid engine overrevving.** Use a gear position suitable for the road on which you are traveling.
- **Avoid continuous speeding up and slowing down.** Stop-and-go driving wastes fuel.

## DRIVING TIPS

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- **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.
- **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 the curb and slow down on rough roads. Improper alignment not only causes faster tire wear but also puts an extra load on the engine, 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 / Maintenance Schedule".)



### CAUTION

**Never turn off the engine to coast down hills. Your power steering and brake booster will not function without the engine running. Also, the emission control system operates properly only when the engine is running.**

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## **SECTION 4**

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### **IN CASE OF AN EMERGENCY**

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## IF YOUR ENGINE STALLS WHILE DRIVING

If your engine 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. Try starting the engine again.

If the engine will not start, see "If your vehicle will not start".



**If the engine is not running, the power assist for the brakes and steering will not work, so steering and braking will be much harder than usual.**

## IF YOUR VEHICLE WILL NOT START

### (a) Simple checks

Before making these checks, make sure you have followed the correct starting procedure instructions in "How to start the engine" on page 139 and that you have sufficient fuel. Since your vehicle is equipped with the engine immobiliser system, also check whether the other keys will start the engine. If they work, your key may be broken. Have the key checked at your Lexus dealer. If none of your keys work, the system is possibly broken. Call your Lexus dealer. See "Keys" on page 10.

If the engine is not turning over or is turning over too slowly –

1. Check that the battery terminals are tight and clean.
2. If the battery terminals are O.K., switch on the interior light.
3. If the light is out, dim or goes out when the starter is cranked, the battery is discharged. You may try jump starting. See "(c) Jump starting" for further instruction.

If the light is O.K., but the engine still will not start, it needs adjustment or repair. Call a Lexus dealer, Roadside Assistance or Customer Service Assistance. (See "Foreword".)

### NOTICE

***Do not pull–or push–start the vehicle. It may damage the vehicle or cause a collision when the engine starts. Also the three–way catalytic converter may overheat and become a fire hazard.***

If the engine turns over at its normal speed but will not start –

1. The engine may be flooded because of repeated cranking. See "(b) Starting a flooded engine" for further instructions.
2. If the engine still will not start, it needs adjustment or repair. Call a Lexus dealer, Roadside Assistance or Customer Service Assistance. (See "Foreword".)

## IN CASE OF AN EMERGENCY

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### (b) Starting a flooded engine

If the engine will not start, your engine may be flooded because of repeated cranking.

If this happens, turn the key to "START" with the accelerator pedal held down. Continue this operation for 30 seconds and then stop cranking. Then try starting the engine with your foot off the accelerator pedal.

If the engine does not start after 30 seconds of cranking, release the key, wait a few minutes and try again.

If the engine still will not start, it needs adjustment or repair. Call a Lexus dealer, Roadside Assistance or Customer Service Assistance. (See "Foreword".)

#### **NOTICE**

*Do not crank for more than 30 seconds at a time. This may overheat the starter and wiring systems.*

### (c) Jump starting

To avoid serious personal injury and damage to your vehicle which might result from battery explosion, acid burns, electrical burns, or damaged electronic components, these instructions must be followed precisely.

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".)

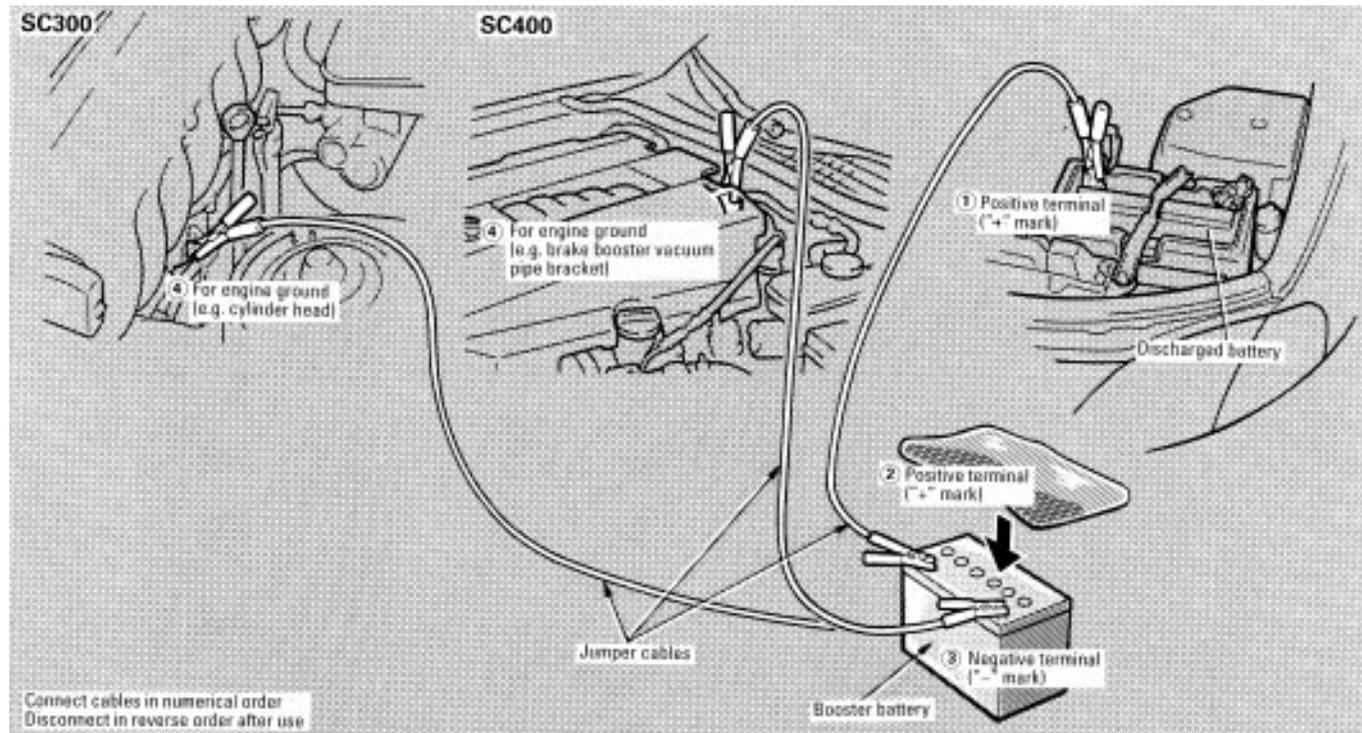
#### **CAUTION**

- 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



### 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.

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.)

## IN CASE OF AN EMERGENCY

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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. Connect the jumper cables in the exact order shown in the illustration: positive terminal ("+" mark)–to–positive terminal ("+" mark), and negative terminal ("–" mark)–to–engine or body ground. Note that you first connect the positive cable to the discharged battery and then to the booster battery. Next, connect the negative cable to the booster battery and then to a solid, stationary, unpainted metallic point (such as shown in the illustration) away from the battery. Do not connect it to or near any part that moves when the engine is cranked.



### 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 your engine in the normal way. After starting, run it at about 2000 rpm for several minutes with the accelerator pedal lightly depressed.

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 your battery discharging is not apparent (for example, lights left on), you should have it checked.

## IF YOUR VEHICLE OVERHEATS

**If your engine coolant temperature gauge indicates overheating, if you experience a loss of power, or if you hear a loud knocking or pinging noise, the engine has probably overheated.**

### When the engine 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:

Turn off the engine. Leave the hood closed until there is no sign of steam or coolant. Your engine could 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:**

Leave the engine running and turn off the air conditioning. Check the following.

- Is the cooling fan operating?
- Is the coolant in the acceptable range?
- Is the engine drive belt O.K.?

 <b>CAUTION</b>
<ul style="list-style-type: none"><li>• <b>When the engine is running, keep hands and clothing away from the moving fan and engine drive belt.</b></li><li>• <b>Do not attempt to remove the radiator cap when the engine and radiator are hot. Serious injury could result from scalding hot fluid and steam blown out under pressure.</b></li></ul>

If the cooling fan is not operating or the coolant is not in the acceptable range, turn off the engine and call your Lexus dealer.

If both conditions are O.K., after the engine coolant temperature has cooled to normal, continue driving your vehicle.

If the engine coolant temperature does not cool down, 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 engine 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.

 <b>CAUTION</b>
<p><b>When jacking, be sure to observe the following to reduce the possibility of personal injury:</b></p> <ul style="list-style-type: none"><li>• <b>Follow jacking instructions.</b></li><li>• <b>Do not put any part of your body under a vehicle supported by a jack. Personal injury may occur.</b></li><li>• <b>Do not start or run the engine while your vehicle is supported by the jack.</b></li><li>• <b>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.</b></li></ul>

## IN CASE OF AN EMERGENCY

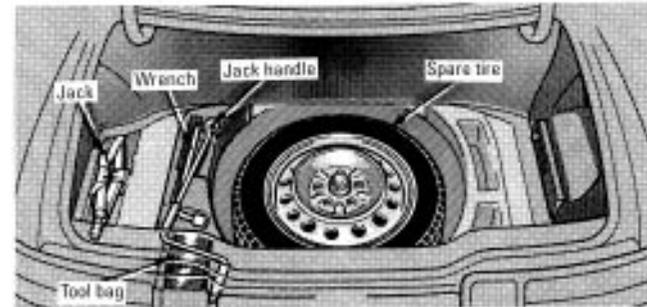
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- Make sure to set the jack properly in the jack point. Raising the vehicle with jack improperly positioned will damage the vehicle or may allow the vehicle to fall off the jack and cause personal injury.
- Never get under the vehicle when the vehicle 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 put an object on or under 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 beyond repair.*

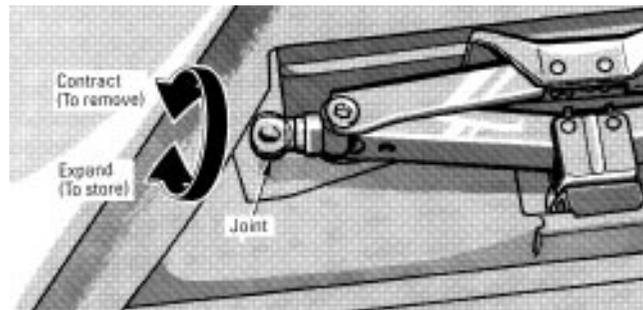
## Changing procedure



### 1. Get the tool, jack 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



When removing the jack, turn the joint by hand in the CONTRACT direction until the jack is free. 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.

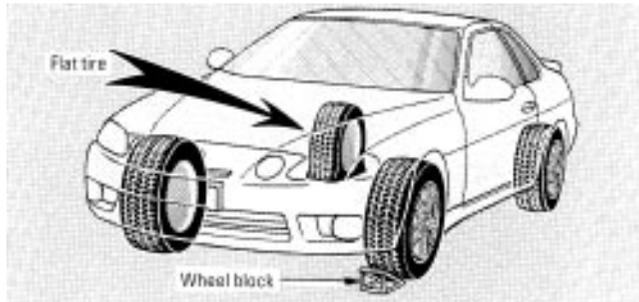


Loosen the bolt and remove it.

When storing the spare tire, place it with the outer side of the wheel facing up. Then bolt the tire in place to prevent the tire from flying forward during a collision or sudden braking.

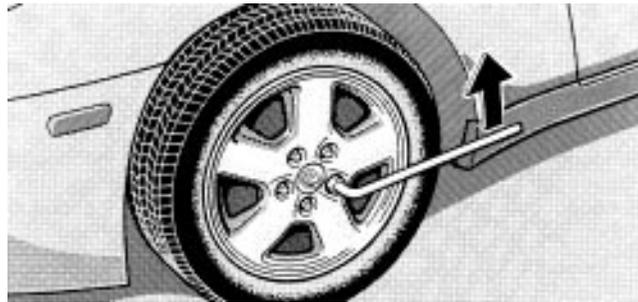
## IN CASE OF AN EMERGENCY

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**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 the front wheels or behind the rear wheels.



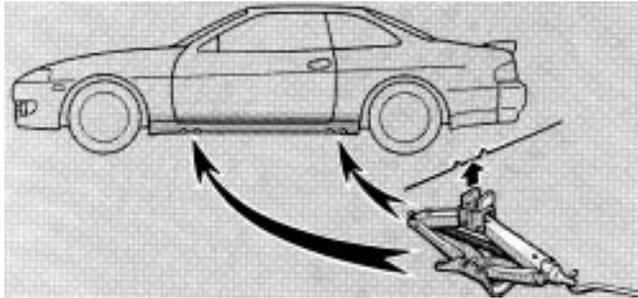
**3. Loosen all the wheel nuts.**

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.

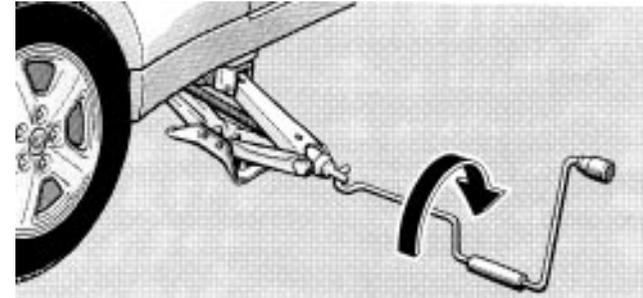
Do not remove the nuts yet – just unscrew them about one-half turn.

**IN CASE OF AN EMERGENCY**



**4. Position the jack at the jack points as shown.**

Make sure the jack is positioned on a level and solid surface.



**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.



**CAUTION**

**Never get under the vehicle when the vehicle is supported by the jack alone.**

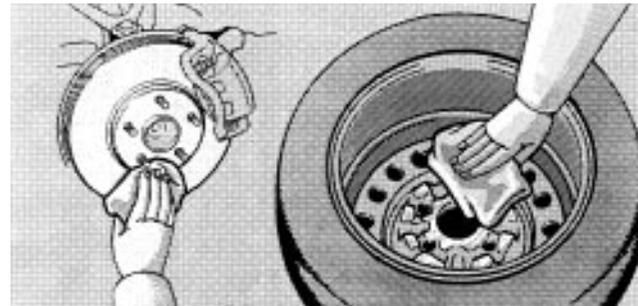
## IN CASE OF AN EMERGENCY

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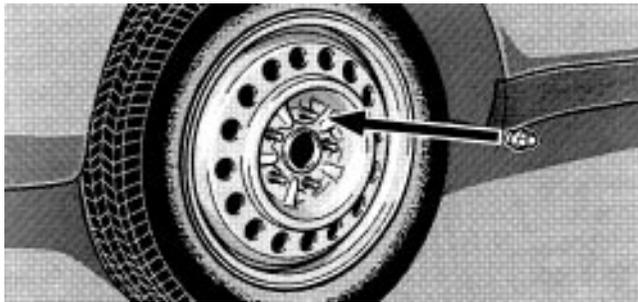
### **6. Remove the wheel nuts and remove the flat tire.**

Lift the flat tire straight off and put it aside.



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.

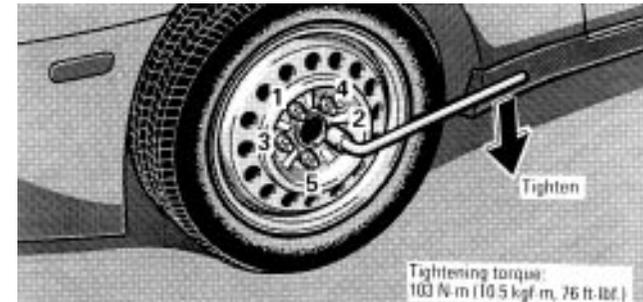
## IN CASE OF AN EMERGENCY



### 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.



### 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.



### 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.
- As soon as possible after changing wheels, have the wheel nuts tightened by torque wrench at 103 N·m (10.5 kgf·m, 76 ft·lbf.).

## IN CASE OF AN EMERGENCY

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9. After changing the wheel, check the air pressure of the replaced tire. Stow all the tools, jack and flat tire securely.

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 possible cause air leakage. If the cap is missing, put a new one on as soon as possible.

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.

## 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 194.

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.

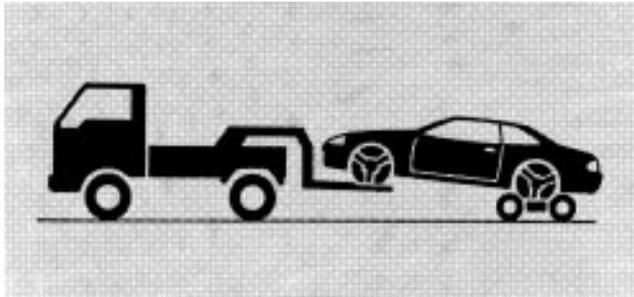
Your vehicle can be damaged if it is towed incorrectly. Although most operators know the correct procedure, it is possible to make a mistake. To avoid damage to your vehicle, make sure the following precautions are observed. If necessary, show this page to the tow truck driver.

### 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.

(a) Towing with a wheel lift type truck

- From front

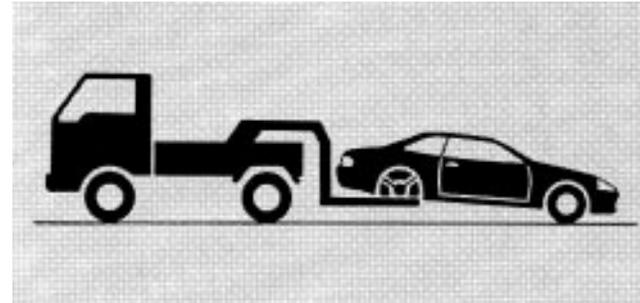


Use a towing dolly under the rear wheels.

**NOTICE**

*Never tow a vehicle with an automatic transmission from the front with rear wheels on the ground, as this may cause serious damage to the transmission.*

- From rear



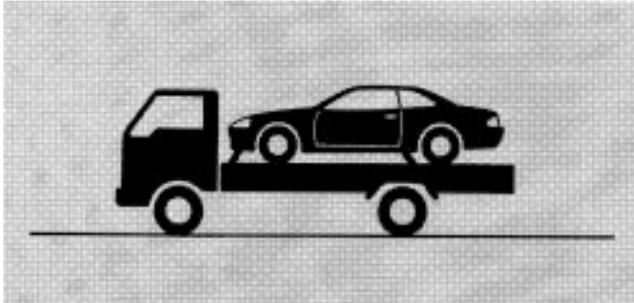
Place the ignition key in the "ACC" position.

**NOTICE**

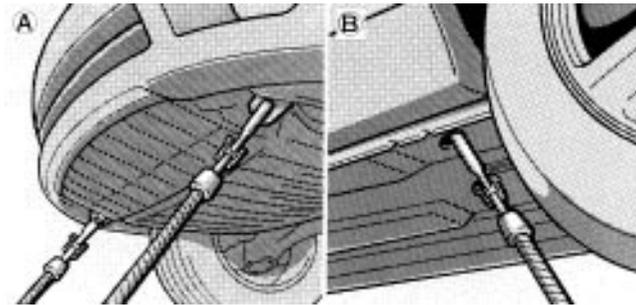
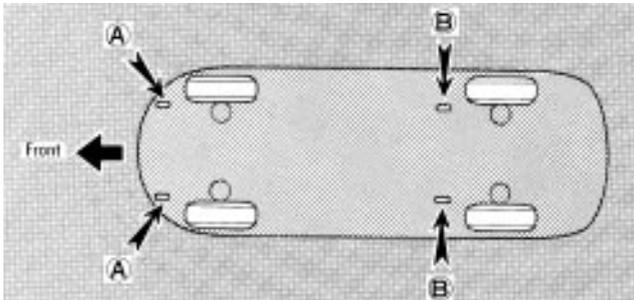
- *Do not tow with the key removed or in the "LOCK" position, as the steering lock mechanism is not strong enough to hold the front wheels straight.*
- *When lifting wheels, take care to ensure adequate ground clearance for towing at the opposite end of the raised vehicle. Otherwise, the bumper and/or underbody of the towed vehicle will be damaged during towing.*

## IN CASE OF AN EMERGENCY

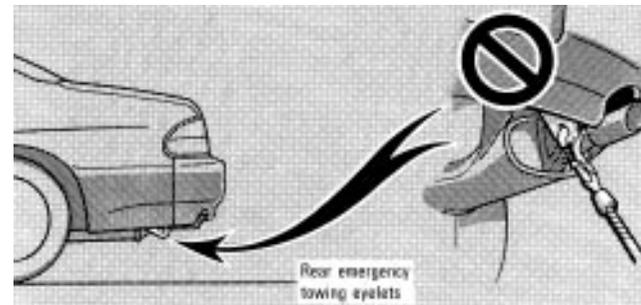
### (b) Using a flat bed truck



- Tie down points



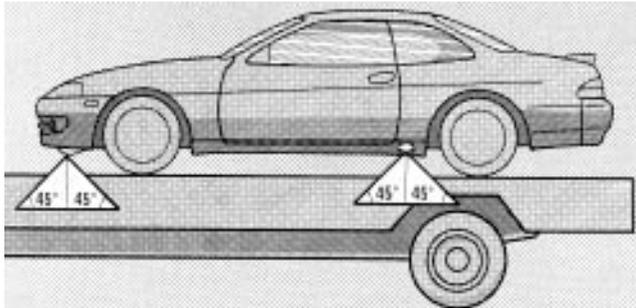
If your Lexus is transported by a flat bed, it should be tied down at locations A and B as shown above.



### **NOTICE**

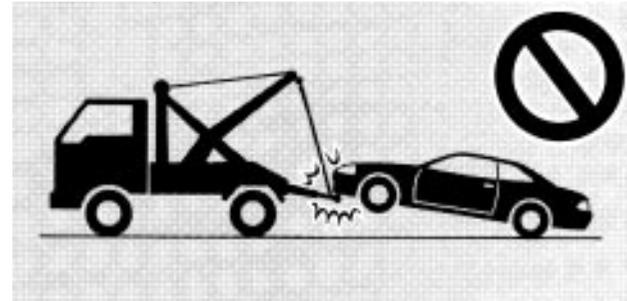
*Do not use the rear emergency towing eyelets.*

- Tie down angle



If you use chains or wires to tie down your vehicle, the angle must be as shown above.

(c) Towing with a sling type truck

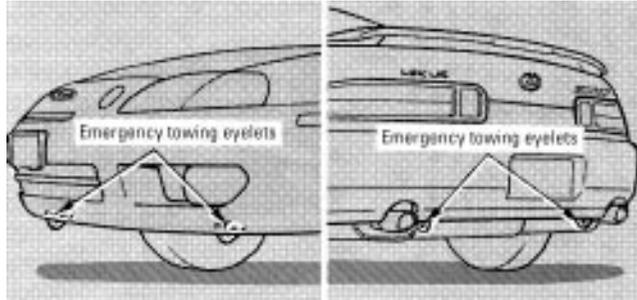


**NOTICE**

*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 by a cable or chain secured to the emergency towing eyelet. Use extreme caution when towing the vehicle.

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.

#### 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.*

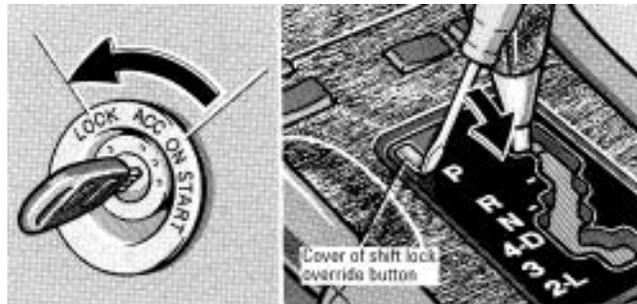
Before towing, release the parking brake and put the transmission in "N". The ignition key must be in "ACC" (engine off) or "ON" (engine running).



#### CAUTION

If the engine is not running, the power assist for the brakes and steering will not work so steering and braking will be much harder than usual.

## IF YOU CANNOT SHIFT AUTOMATIC 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 flat-bladed screwdriver or equivalent.



3. Insert your finger, the screwdriver or equivalent into the hole to push down the shift lock override button. You can shift out of "P" position only while pushing the button.

4. Shift into "N" position.

5. Insert the cover.

6. Start the engine. For your safety, keep the brake pedal depressed.

Be sure to have the system checked by your Lexus dealer as soon as possible.

## IN CASE OF AN EMERGENCY

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### **IF YOU LOSE YOUR KEYS OR LOCK YOURSELF OUT**

**Many Lexus dealers can make a new key if you can give them the key number. Since your vehicle is equipped with the engine immobiliser system, the dealer will also need your master key.**

See the suggestion given in "Keys" on page 10.

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 their 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 cuts from the glass.

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 system must be replaced.

7  
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## SECTION 5

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### MAINTENANCE

Maintenance requirements .....	199
General maintenance .....	200
Does your vehicle need repairing? .....	203

*For scheduled maintenance information, please refer to the “Owner’s Manual Supplement / Maintenance Schedule”.*

## 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 / Maintenance Schedule" are those required to be serviced at regular intervals.

For details of your maintenance schedule, read the "Owner's Manual Supplement / Maintenance Schedule".

**It is recommended that only genuine Lexus parts be used for maintenance.**

**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.

## MAINTENANCE

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Your copy of the repair order is proof that all required maintenance has been performed for warranty coverage. And 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 where adequate ventilation can be obtained if you run the engine.**

### Vehicle exterior

**Items listed below should be performed from time to time, unless otherwise specified.**

#### Tire pressure

Check the pressure with a gauge every two weeks, or at least once a month and adjust as shown on the tire pressure label. See page 237 for additional information.

#### Tire surface

Check the tires carefully for cuts, damage or excessive wear. See page 239 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 every 12000 km (7500 miles). See page 238 for additional information.

### **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 doors, including trunk lid, operate smoothly and all latches lock securely. Make sure the engine hood secondary latch secures the hood when the primary latch is released.

### **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.

#### **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.

## MAINTENANCE

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### **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**

At a safe place, check that the brakes do not pull to one side when applied.

### **Parking brake**

Check that the lever 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**

On a safe incline, check that your vehicle is held securely with the selector lever in "P" position and all brakes released.

### **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 254 for additional information.

#### **Engine coolant level**

Make sure the coolant level is between the Upper and Lower lines on the see-through reservoir when the engine is cold. See page 226 for additional information.

#### **Battery**

Your Lexus has a maintenance free battery. You do not have to add distilled water. For longer life of the battery, however, see page 248 for additional information.

#### **Brake fluid level**

Make sure the brake fluid level is correct. See page 235 for additional information.

#### **Engine oil level**

Check the level on the dipstick with the engine turned off and the vehicle parked on a level spot. See page 223 for additional information.

**Power steering fluid level**

Check the level on the dipstick. The level should be in the "HOT" or "COLD" range depending on the fluid temperature. See page 236 for additional information.

**Engine fan fluid level**

Check the level through the reservoir. The level should be in "HOT" or "COLD" range depending on the fluid temperature. See page 227 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 cautions in Section 3–1.)

**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 floors, vehicle pulls to one side when braking

## MAINTENANCE

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- 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.**

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# **SECTION 6-1**

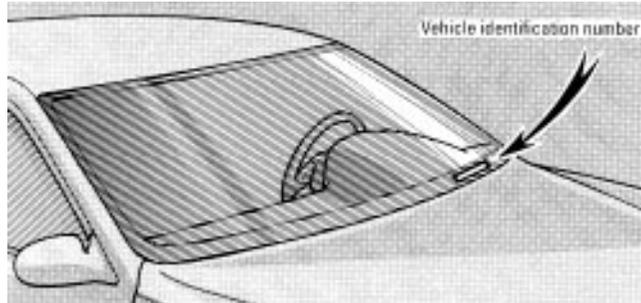
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## **SERVICE PROCEDURES AND SPECIFICATIONS**

### **Introduction**

<a href="#">Vehicle identification</a> .....	207
Engine compartment overview (SC400) .....	208
Engine compartment overview (SC300) .....	209
<a href="#">Do-it-yourself service precautions</a> .....	210
<a href="#">Parts and tools</a> .....	211

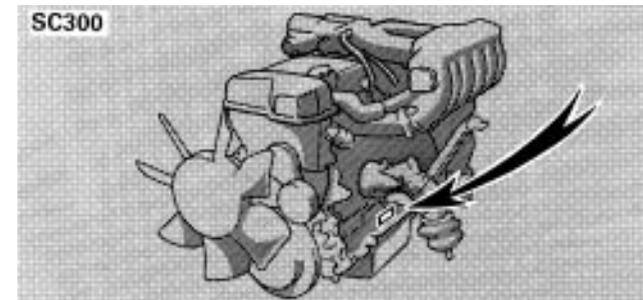
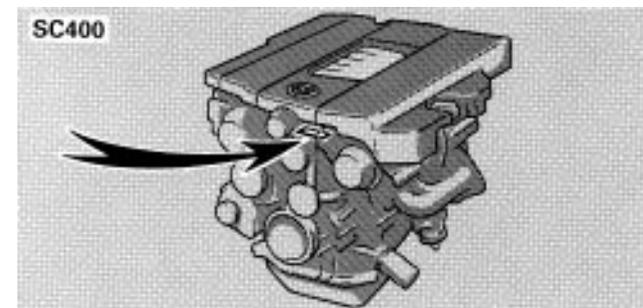
## VEHICLE IDENTIFICATION



The vehicle identification number (VIN) is the legal identifier for your vehicle. This number is on the left top of the instrument panel and can be seen through the windshield from outside.

The vehicle identification number (VIN) is also on the Certification Label.

This is the primary identification number for your Lexus. It is used in registering the ownership of your vehicle.

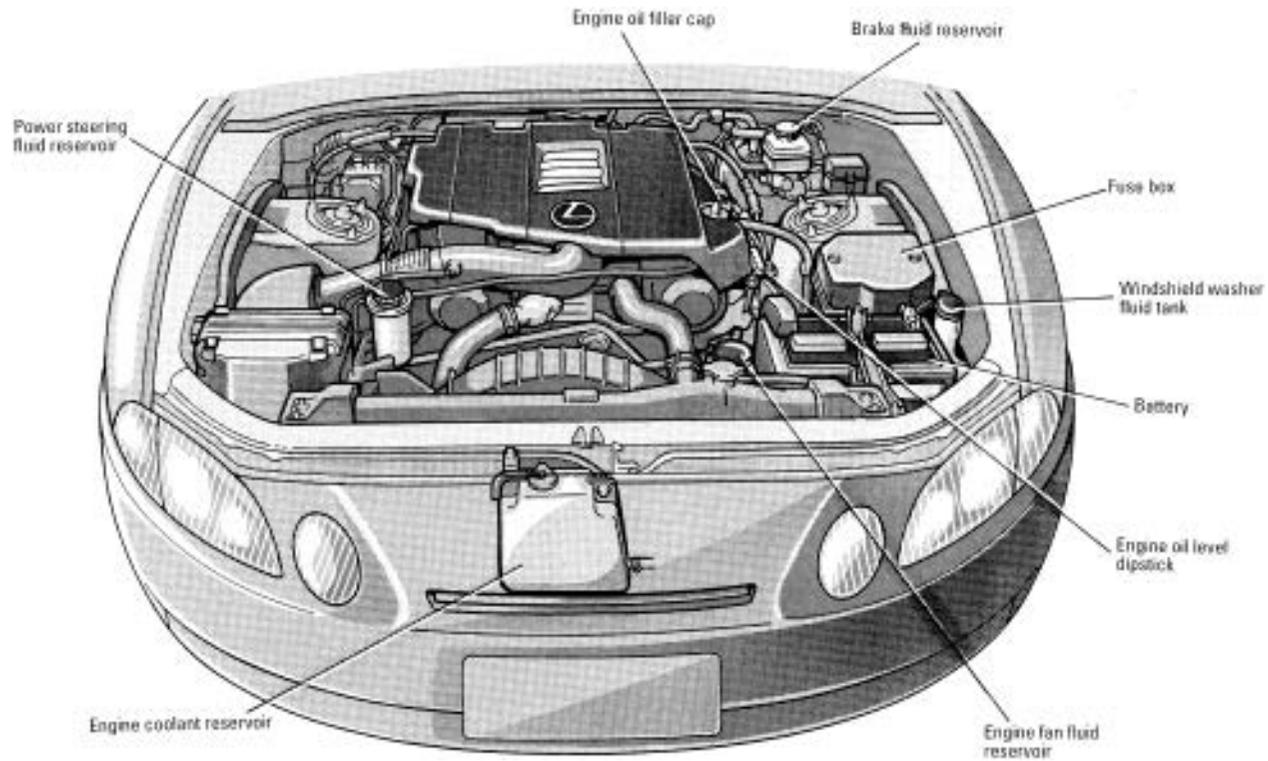


The engine number is stamped on the engine block as shown.

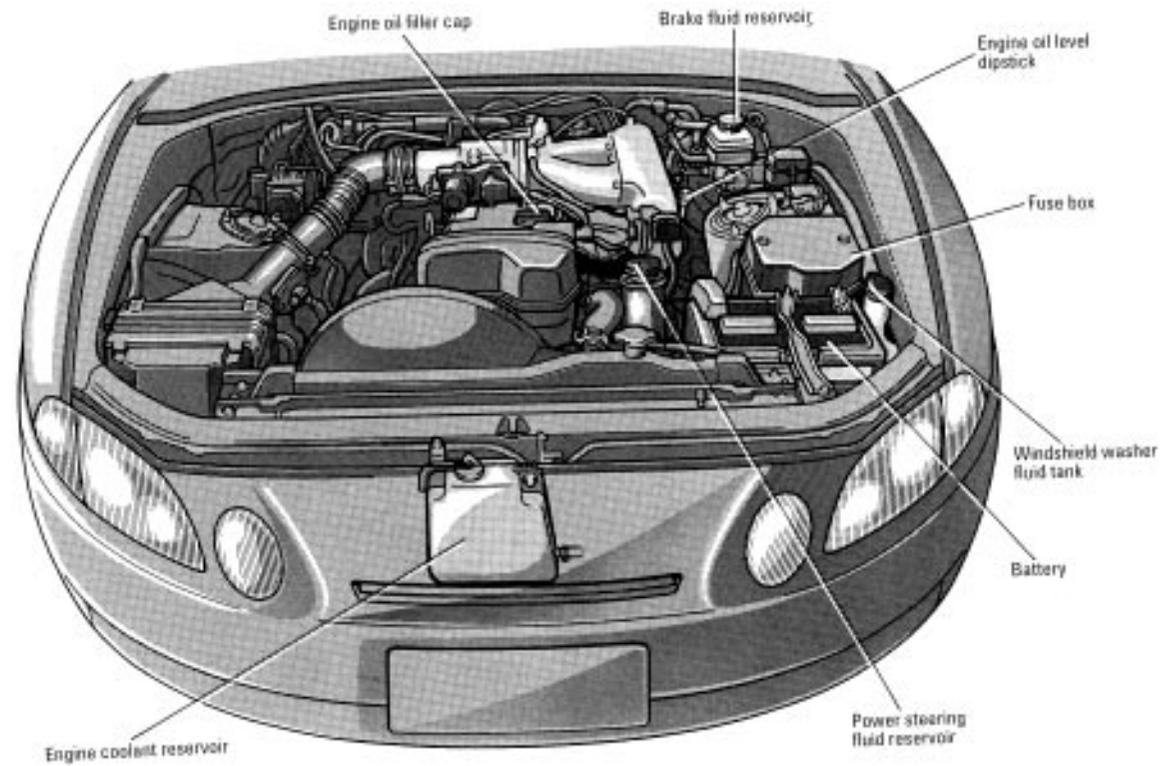
## INTRODUCTION

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### ENGINE COMPARTMENT OVERVIEW(SC400)



## ENGINE COMPARTMENT OVERVIEW(SC300)



## INTRODUCTION

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### 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 211.

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

- When the engine is running, keep hands, clothing, and tools away from the moving fan and engine drive belt. (Removing rings, watches, and ties is advisable.)

- Right after driving, the engine compartment – the engine, radiator, exhaust manifold and power steering fluid reservoir, etc. – will be hot. So be careful not to touch them. Oil and other fluids may also be hot.
- Do not smoke, cause sparks or allow open flames near fuel or the battery. Their fumes are flammable.
- Be extremely cautious when working on the battery. It contains poisonous and corrosive sulfuric acid.
- Do not get under your vehicle with just the body jack supporting it. Always use automotive jack stands or other solid supports.
- Use eye protection whenever you work on or under your vehicle where you may be exposed to flying or falling material, fluid spray, etc.

#### NOTICE

- Remember that battery and ignition cables carry high currents or voltages. Be careful of accidentally causing a short circuit.
- Before closing the engine 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.
- Do not overfill automatic transmission fluid, or the transmission could be damaged.

- *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):

- Use API grade SJ, "Energy-Conserving" multigrade engine oil or ILSAC multigrade engine oil. For recommended oil viscosity, see page 225.

#### Tools:

- Rag or paper towel
- Funnel (only for adding oil)

### Checking the engine coolant level

#### Parts (if level is low):

- "Toyota Long Life Coolant" or equivalent  
See "Checking the engine coolant level" on page 226 for instructions.
- Demineralized or distilled water

#### Tools:

- Funnel (only for adding coolant)

### Checking the engine fan fluid

#### Part (if level is low)

- Automatic transmission fluid DEXRON® II or III

#### Tools:

- Funnel (only for adding fluid)

### Checking brake fluid

#### Parts (if level is low):

- FMVSS No. 116 DOT 3 or SAE J1703 brake fluid

#### Tools:

- Funnel (only for adding fluid)

### Checking power steering fluid

#### Parts (if level is low):

- Automatic transmission fluid DEXRON® II or III

#### Tools:

- Rag or paper towel
- Funnel (only for adding fluid)

## INTRODUCTION

---

### Checking battery condition

**Tools:**

- Warm water
- Baking soda
- Grease
- Conventional wrench (for terminal clamp bolts)

### 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

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## **SECTION 6-2**

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### **SERVICE PROCEDURES AND SPECIFICATIONS**

#### **Engine**

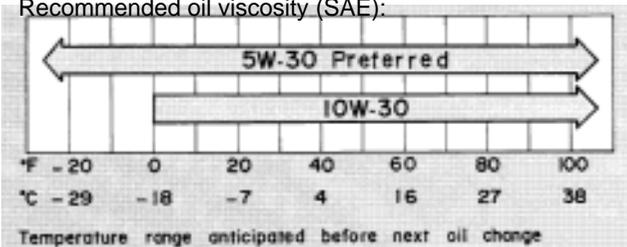
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## SPECIFICATIONS (SC400)

### – GENERAL

Model	1UZ-FE
Type	8 cylinder V type, 4 cycle, gasoline
Bore and stroke	87.5 X 82.5 mm (3.44 X 3.25 in.)
Displacement	3969 cm <sup>3</sup> (242.1 cu.in.)
Valve clearance (engine cold)	
Intake	0.15 – 0.25 mm (0.006 – 0.010 in.)
Exhaust	0.25 – 0.35 mm (0.010 – 0.014 in.)
Drive belt tension	Automatic adjustment

### – LUBRICATION SYSTEM

Oil capacity																	
Drain and refill																	
with filter	5.0 L (5.3 qt., 4.4 Imp.qt.)																
without filter	4.7 L (5.0 qt., 4.1 Imp.qt.)																
Oil grade	API SJ, "Energy-Conserving" multigrade engine oil or ILSAC multigrade engine oil																
Recommended oil viscosity (SAE):																	
 <p>The chart shows two horizontal arrows representing oil viscosity ranges. The top arrow is labeled '5W-30 Preferred' and spans from -20°F to 100°F. The bottom arrow is labeled '10W-30' and spans from 0°F to 100°F. Below the arrows, the temperature scale is provided in both Fahrenheit and Celsius.</p> <table border="1"> <tr> <td>°F</td> <td>-20</td> <td>0</td> <td>20</td> <td>40</td> <td>60</td> <td>80</td> <td>100</td> </tr> <tr> <td>°C</td> <td>-29</td> <td>-18</td> <td>-7</td> <td>4</td> <td>16</td> <td>27</td> <td>38</td> </tr> </table> <p>Temperature range anticipated before next oil change</p>		°F	-20	0	20	40	60	80	100	°C	-29	-18	-7	4	16	27	38
°F	-20	0	20	40	60	80	100										
°C	-29	-18	-7	4	16	27	38										

## ENGINE

---

### – COOLING SYSTEM

Capacity Coolant type	11.6 L (12.3 qt., 10.2 Imp.qt.) "Toyota Long Life Coolant" or equivalent With ethylene–glycol type coolant for a proper corrosion protection of aluminum components Do not use alcohol type antifreeze or plain water alone.
--------------------------	---

### – FUEL

Fuel type Octane rating	Only UNLEADED 91 (Research octane number 96) or higher
----------------------------	---

### – IGNITION SYSTEM

Spark plug – Make – Gap	DENSO NGK SK20R11 IFR6A11 1.1 mm (0.043 in.)
----------------------------	--

### – ELECTRICAL SYSTEM

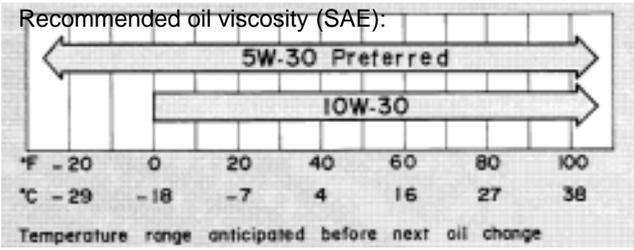
Battery – Open voltage at 20°C (68°F):  Charging rates	12.7V Fully charged 12.3V Half charged 11.9V Discharged [Voltage that is checked 20 minutes after the key is removed with all the lights turned off] 5A max.
--	--

## SPECIFICATIONS (SC300)

### – GENERAL

Model	2JZ-GE
Type	6 cylinder in line, 4 cycle, gasoline
Bore and stroke	86.0 X 86.0 mm (3.39 X 3.39 in.)
Displacement	2997 cm <sup>3</sup> (182.9 cu.in.)
Valve clearance (engine cold)	
Intake	0.15 – 0.25 mm (0.006 – 0.010 in.)
Exhaust	0.25 – 0.35 mm (0.010 – 0.014 in.)
Drive belt tension	Automatic adjustment

### – LUBRICATION SYSTEM

Oil capacity	5.2 L (5.5 qt., 4.5 Imp.qt.) 4.9 L (5.2 qt., 4.4 Imp.qt.) API SJ, "Energy-Conserving" multigrade engine oil or ILSAC multigrade engine oil
Drain and refill with filter	
without filter	
Oil grade	
<p>Recommended oil viscosity (SAE):</p>  <p>Temperature range anticipated before next oil change</p>	

## ENGINE

---

### – COOLING SYSTEM

Capacity Coolant type	8.4 L (8.9 qt., 7.4 Imp.qt.) "Toyota Long Life Coolant" or equivalent With ethylene–glycol type coolant for a proper corrosion protection of aluminum components Do not use alcohol type antifreeze or plain water alone.
--------------------------	--

### – FUEL

Fuel type Octane rating	Only UNLEADED 91 (Research octane number 96) or higher
----------------------------	---

### – IGNITION SYSTEM

Spark plug – Make – Gap DENSO NGK	PK16TR11 BKR5EKP11 1.1 mm (0.043 in.)
--	---

### – ELECTRICAL SYSTEM

Battery – Open voltage at 20°C (68°F):  Charging rates	12.7V Fully charged 12.3V Half charged 11.9V Discharged [Voltage that is checked 20 minutes after the key is removed with all the lights turned off] 5A 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 premium unleaded gasoline with an Octane Rating of 91 (Research Octane Number 96) or higher for optimum engine performance. However, if such premium type cannot be obtained, you may temporarily use unleaded gasoline with an Octane Rating as low as 87 (Research Octane Number 91).

Use of unleaded fuel with an octane number or rating lower than stated above will cause persistent heavy knocking. If severe, this will lead to engine damage.

#### **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, now and then, you may notice light knocking for a short time while accelerating or driving up hills. This is no cause 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.

### 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 three categories that depend on required emission levels. In the U.S., category 3 has been adopted. The WWFC improves air quality by providing for better emissions in vehicle fleets, and customer satisfaction through better vehicle performance.

## ENGINE

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### 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.

### Sulfur in gasoline

**If your vehicle is certified to California Emission Regulation, the vehicle is designed to operate on California cleaner burning gasoline (CBG) that contains lower sulfur. If you cannot use California CBG, your emission control system may suffer damage and turn on the Malfunction Indicator Lamp.**

If the malfunction is caused by the type of fuel used, repairs may not be covered by your warranty.

### 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

78 L (20.6 gal., 17.2 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.

**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 by high-speed driving and frequent acceleration and deceleration.

A new engine consumes more oil, since its pistons, piston rings and cylinder walls have not become conditioned.

**When judging the amount of oil consumption, keep in mind that the oil may have become diluted, making it difficult to judge the true level accurately.**

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.

## ENGINE

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### 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 check, see "Checking the engine oil level" on page 223.

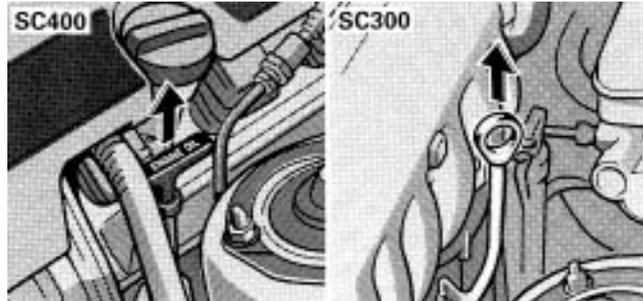
### USED ENGINE OIL



#### **CAUTION**

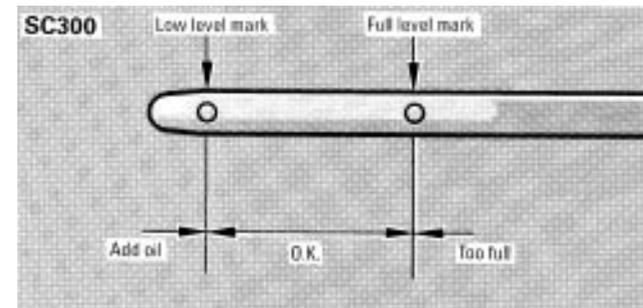
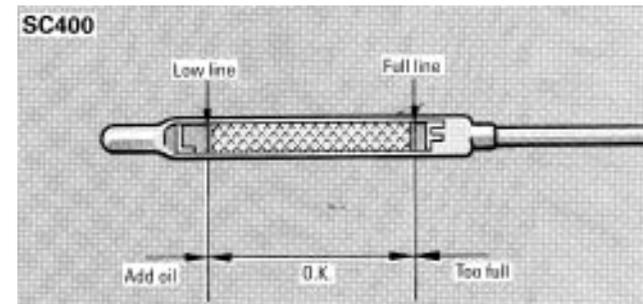
- **Used engine oil contains potentially harmful contaminants which may cause skin disorders such as inflammation or skin cancer, so care should be taken to avoid prolonged and repeated contact with it. To remove used engine oil from your skin, wash thoroughly with soap and water.**
- **Do not leave 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.**

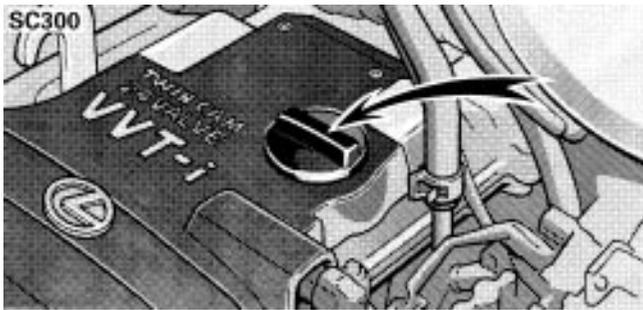
1. To get a true reading, the vehicle should be on a level spot. After turning off the engine, wait a few minutes for the oil to drain back into the bottom of the engine.
2. Pull out the dipstick, and wipe it clean with a rag.
3. Reinsert the dipstick and push it in as far as it will go, or the reading will not be correct.



4. Pull the dipstick out and look at the oil level on the end. If it is between the full line (full level mark) and the low line (low level mark), it is O.K.

## ENGINE

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**If the oil level is below or only slightly above the low line (low level 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. The approximate quantity of oil needed to fill between the low line (low level mark) and the full line (full level mark) on the dipstick is indicated below for reference.

When the level reaches within the correct range, return the filler cap and turn the cap clockwise until you hear a click.

Oil quantity. L (qt., Imp. qt.) SC400, SC300 – 1.5 (1.6, 1.3)

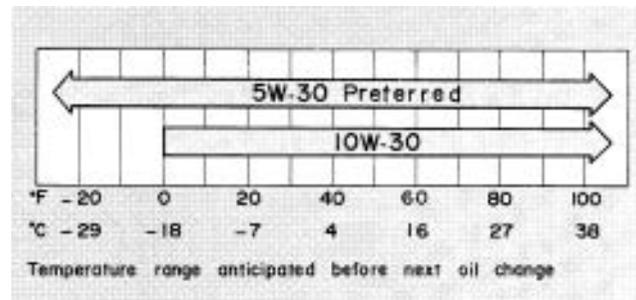
### **NOTICE**

***Avoid overfilling, or the engine could be damaged. Check the oil level on the dipstick once again after adding the oil.***

### Engine oil selection

Use API SJ, "Energy-Conserving" multigrade engine oil or ILSAC multigrade engine oil.

Recommended viscosity (SAE):



**SAE 5W-30 is the best choice for your vehicle, for good fuel economy, and good starting in cold weather.**

**If you use SAE 10W-30 engine oil in extremely low temperatures, the engine may become difficult to start, so SAE 5W-30 engine oil is recommended.**

### Oil identification marks



Either or both API registered marks are added to some oil containers to help you select the oil you should use.

- The API Service Symbol is located anywhere on the outside of the container.

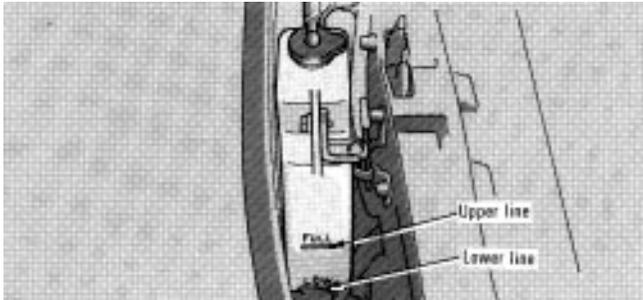
The top portion of the label shows the oil quality by API (American Petroleum Institute) designation such as SJ. The center portion of the label shows the SAE viscosity grade such as SAE 5W-30. "Energy-Conserving", shown in the lower portion, indicates that the oil has fuel-saving capabilities.

- The ILSAC (International Lubricant Standardization and Approval Committee) Certification Mark is displayed on the front of the container.

## ENGINE

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### CHECKING THE ENGINE COOLANT LEVEL



Look at the see-through coolant reservoir when the engine 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 ethylene-glycol type coolant for a proper corrosion protection of aluminum components.

The coolant level in the reservoir will vary with engine temperature. However, if the level is on or below the "LOW" line, add coolant. Bring the level up to the "FULL" line.

Always use ethylene-glycol type coolant for a proper corrosion protection of aluminum components. See information in the next column.

If the coolant level drops within a short time after replenishing, there may be a leak in the system. Visually check the radiator, hoses, engine coolant filler cap, radiator cap and drain cock and water pump.

If you can find no leak, have your Lexus dealer test the cap pressure and check for leaks in the cooling system.



#### CAUTION

To prevent burning yourself, do not remove the radiator cap when the engine is hot.

### Coolant type selection

Use of improper coolants may damage your engine cooling system. Your coolant must contain ethylene-glycol type coolant for a proper corrosion protection of your engine that contains aluminum components. Use "Toyota Long Life Coolant" or equivalent.

In addition to preventing freezing and subsequent damage to the engine, this type of coolant will also prevent corrosion. Further supplemental inhibitors or additives are neither needed nor recommended.

Read the coolant container for information on freeze protection. Follow the manufacturer's directions for how much to mix with plain water (preferably demineralized water or distilled water). The total capacity of the cooling system is given on pages 216 (SC400) and 218 (SC300).

We recommend to use 50% solution for your Lexus, to provide protection down to about  $-35^{\circ}\text{C}$  ( $-31^{\circ}\text{F}$ ). When it is extremely cold, to provide protection down to about  $-50^{\circ}\text{C}$  ( $-58^{\circ}\text{F}$ ), 60% solution is recommended. Do not use more than 70% solution for better coolant performance.

#### **NOTICE**

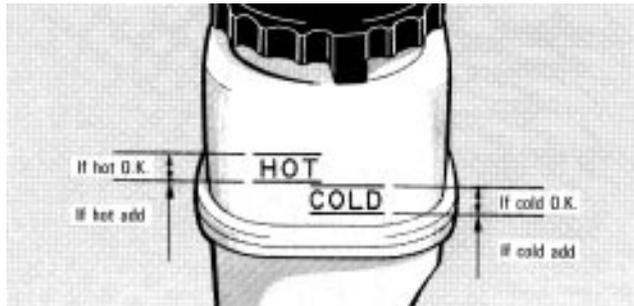
***Do not use alcohol type antifreeze or plain water alone.***

### CHECKING THE ENGINE FAN FLUID (SC400 ONLY)



**Park the vehicle at a level spot and look at the see-through reservoir. If necessary, add automatic transmission fluid DEXRON<sup>®</sup> II or III.**

## ENGINE



If the fluid is hot (70°C – 90°C or 158°F –194°F), the level should be in the "HOT" range. Similarly, if it is cold (10°C – 30°C or 50°F – 86°F), the level should be in the "COLD" range. If the level is at the low side of either range, add automatic transmission fluid DEXRON® II or III to bring the level within the range.



### CAUTION

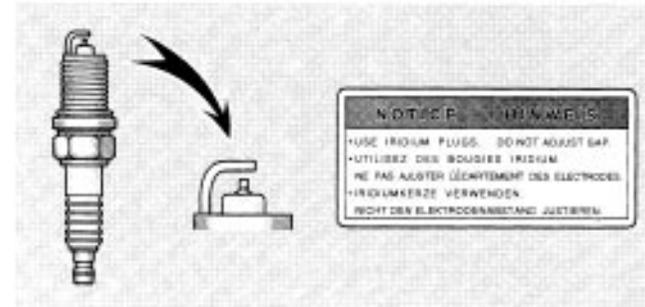
The reservoir may be hot so be careful not to burn yourself.

### NOTICE

When adding the engine fan fluid, avoid overfilling.

## SPARK PLUGS

### SC400

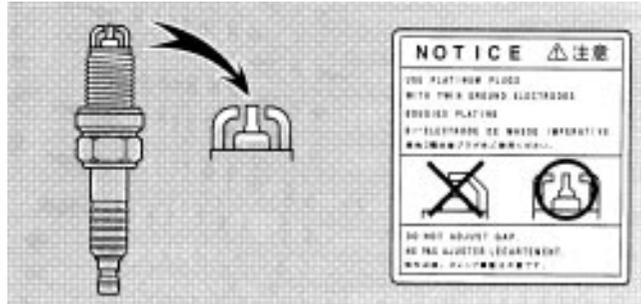


Your engine is fitted with iridium-tipped spark plugs.

### NOTICE

Use only iridium-tipped spark plugs and do not adjust gaps for your engine performance and smooth drivability.

## SC300



Your engine is fitted with twin ground electrode platinum-tipped spark plugs.

**NOTICE**

*Use only twin ground electrode platinum-tipped spark plugs and do not adjust gaps for your engine performance.*

## **SECTION 6-3**

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### **SERVICE PROCEDURES AND SPECIFICATIONS**

#### **Chassis**

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## SPECIFICATIONS (SC400)

### – AUTOMATIC TRANSMISSION

Fluid capacity Drain and refill Fluid type	2.4 L (2.5 qt., 2.1 Imp.qt.) <b>Automatic transmission fluid Type T-IV*</b>
--	--

### – DIFFERENTIAL

Oil capacity Oil type Oil viscosity	1.35 L (1.42 qt., 1.19 Imp.qt.) Hypoid gear oil API GL-5 Above $-18^{\circ}\text{C}$ ( $0^{\circ}\text{F}$ ): SAE90 Below $-18^{\circ}\text{C}$ ( $0^{\circ}\text{F}$ ): SAE80W or SAE80W-90
---	---

\*Change automatic transmission fluid only as necessary. Generally, it is necessary to change automatic transmission fluid only if your vehicle is driven under one of the Special Operating Conditions listed in your "Owner's Manual Supplement / Maintenance Schedule". When changing the automatic transmission fluid, use only Toyota Genuine ATF Type T-IV (ATF JWS3309 or NWS6500) to aid in assuring optimum transmission performance.

### NOTICE

***Using automatic transmission fluid other than Toyota Genuine ATF Type T-IV may cause deterioration in shift quality, locking up of your transmission accompanied by vibration, and ultimately damage the automatic transmission of your vehicle.***

## CHASSIS

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### – BRAKES

Pedal clearance *1	89 mm (3.5 in.) Min.
Pedal free play	1 – 6 mm (0.04 – 0.24 in.)
Brake pad wear limit	1.0 mm (0.04 in.)
Parking brake lining wear limit *2	1.0 mm (0.04 in.)
Parking brake adjustment	5 – 8 clicks
Fluid type	SAE J1703 or FMVSS No. 116 DOT 3

\*1: Minimum pedal clearance when depressed with the pressure of 490 N (50 kgf, 110 lbf.) with the engine running

\*2: Parking brake adjustment when pulled with the force of 196 N (20 kgf, 44 lbf.)

### – STEERING

Free play	Less than 30 mm (1.2 in.)
Power steering fluid	Automatic transmission fluid DEXRON® II or III

### – TIRES AND WHEELS

Tire size	225/55R16 94V
Tire inflation pressure	
Recommended cold tire inflation pressure	Front 220 kPa (2.2 kgf/cm <sup>2</sup> or bar, 32 psi) Rear 220 kPa (2.2 kgf/cm <sup>2</sup> or bar, 32 psi)
Wheel size	16 x 7 JJ or 16 x 6 1/2 JJ
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 pressure” through “Aluminum wheel precautions” on page 237 through 243.

## SPECIFICATIONS (SC300)

### – AUTOMATIC TRANSMISSION

Fluid capacity Drain and refill Fluid type	1.6 L (1.7 qt., 1.4 Imp.qt.) <b>Automatic transmission fluid Type T-IV*</b>
--	--

### – DIFFERENTIAL

Oil capacity Oil type Oil viscosity	1.35 L (1.42 qt., 1.19 Imp.qt.) Hypoid gear oil API GL-5 Above -18°C (0°F): SAE90 Below -18°C (0°F): SAE80W or SAE80W-90
---	---

\*Change automatic transmission fluid only as necessary. Generally, it is necessary to change automatic transmission fluid only if your vehicle is driven under one of the Special Operating Conditions listed in your "Owner's Manual Supplement / Maintenance Schedule". When changing the automatic transmission fluid, use only Toyota Genuine ATF Type T-IV (ATF JWS3309 or NWS6500) to aid in assuring optimum transmission performance.

### **NOTICE**

***Using automatic transmission fluid other than Toyota Genuine ATF Type T-IV may cause deterioration in shift quality, locking up of your transmission accompanied by vibration, and ultimately damage the automatic transmission of your vehicle.***

## CHASSIS

---

### – BRAKES

Pedal clearance *1	89 mm (3.5 in.) Min.
Pedal free play	1 – 6 mm (0.04 – 0.24 in.)
Brake pad wear limit	1.0 mm (0.04 in.)
Parking brake lining wear limit *2	1.0 mm (0.04 in.)
Parking brake adjustment	5 – 8 clicks
Fluid type	SAE J1703 or FMVSS No. 116 DOT 3

\*1: Minimum pedal clearance when depressed with the pressure of 490 N (50 kgf, 110 lbf.) with the engine running

\*2: Parking brake adjustment when pulled with the force of 196 N (20 kgf, 44 lbf.)

### – STEERING

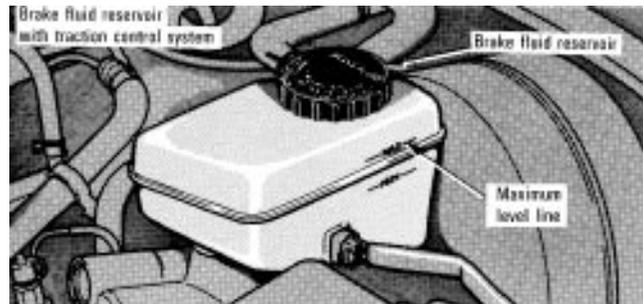
Free play	Less than 30 mm (1.2 in.)
Power steering fluid	Automatic transmission fluid DEXRON® II or III

### – TIRES AND WHEELS

Tire size	225/55 R16 94V
Tire inflation pressure	
Recommended cold tire inflation pressure	Front 220 kPa (2.2 kgf/cm <sup>2</sup> or bar, 32 psi) Rear 220 kPa (2.2 kgf/cm <sup>2</sup> or bar, 32 psi)
Wheel size	16 x 6 1/2 JJ
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 pressure” through “Aluminum wheel precautions” on page 237 through 243.

## CHECKING BRAKE FLUID



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. So be sure to keep the reservoir filled.

If the reservoir needs frequent refilling, it may indicate a serious mechanical problem.

**If the level is low, add FMVSS No.116 DOT 3 or SAE J1703 brake fluid to the brake reservoir.**

Remove and replace the reservoir cap by hand. Add brake fluid up to the "MAX" line.

Use only newly opened brake fluid. Once opened, brake fluid absorbs moisture from the air, and excess moisture can cause a dangerous loss of braking efficiency.



### CAUTION

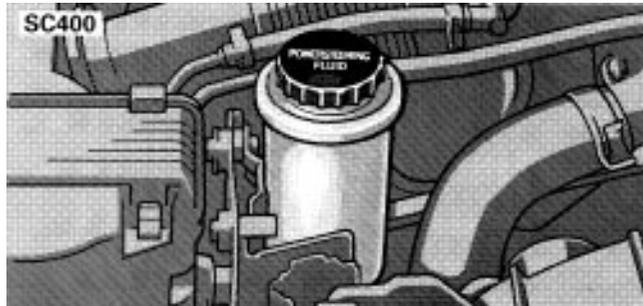
Take care when filling the reservoir because brake fluid can harm your hands or eyes and damage painted surfaces. If fluid gets in your hands or eyes, flush them with clean water.

### NOTICE

- *If you spill some of the fluid, be sure to wipe it off to prevent it from damaging the parts or paintwork.*
- *For vehicles with traction control system only: Idle the engine while pouring brake fluid into the reservoir.*

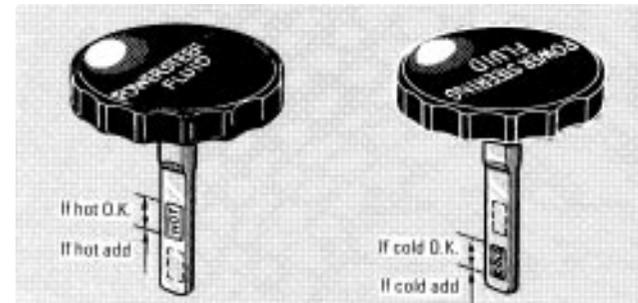
## CHASSIS

### CHECKING POWER STEERING FLUID



Check the fluid level on the dipstick. If necessary, add automatic transmission fluid DEXRON® II or III.

If the vehicle has been driven around 80 km/h (50 mph) for 20 minutes (a little more in frigid temperatures), the fluid is hot (60°C – 80°C or 140°F – 175°F). You may also check the level when the fluid is cold (about room temperature, 10°C – 30°C or 50°F – 85°F) if the engine has not been run for about five hours.



1. Clean all dirt off the reservoir.
2. Remove the reservoir cap by turning it counterclockwise and wipe the dipstick clean.
3. Reinstall the reservoir cap.
4. Remove the reservoir cap again and look at the fluid level. If the fluid is cold, the level should be in the "COLD" range on the dipstick. Similarly, if it is hot, the fluid level should be in the "HOT" range. If the level is at the low side of either range, add automatic transmission fluid DEXRON® II or III to bring the level within the range.

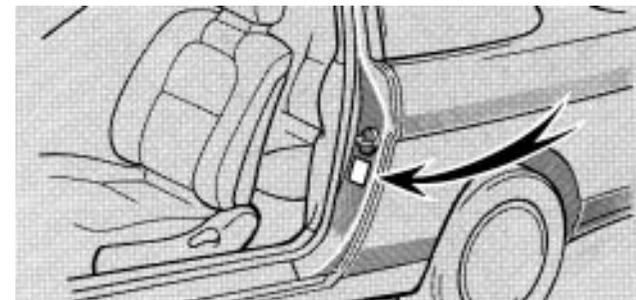
5. After replacing the reservoir cap, visually check the steering box case, vane pump and hose connections for leaks or damage.

**CAUTION**

The reservoir may be hot so be careful not to burn yourself.

**NOTICE**

- *Avoid overfilling, or the power steering could be damaged.*
- *When adding the power steering fluid, avoid spilling it. The generator under the power steering reservoir could be damaged if fluid is spilled on it.*

**CHECKING TIRE PRESSURE**

**The recommended cold tire pressures, tire size and the vehicle capacity weight are given on the label.**

You should check the tire pressures every two weeks, or at least once a month. And don't forget the spare! The pressure for the spare tire should be same with that for the standard tire. (See page 232 or 234.) Incorrect tire pressure can reduce tire life and make your vehicle less safe to drive.

Low tire pressure results in excessive wear, poor handling, reduced fuel economy, and the possibility of blowouts from overheated tires. Also, low tire pressure can cause poor sealing of the tire bead. If the tire pressure is excessively low, there is the possibility of wheel deformation and/or tire separation. So keep your tire pressures at the proper level. If a tire needs frequent refilling, have it checked by your Lexus dealer.

## CHASSIS

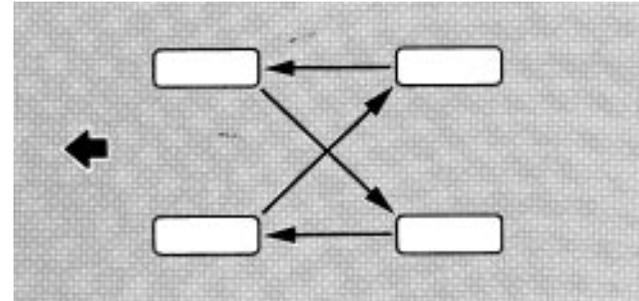
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High tire pressure produces a harsh ride, handling problems, excessive wear at the center of the tire tread, and a greater possibility of tire damage from road hazards.

The following instructions for checking tire 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 pressure reading.
- **Always use a tire pressure gauge.** The appearance of the tire can be misleading. Besides, tire pressures that are even just a few pounds off can degrade handling and ride.
- **Do not bleed or reduce tire pressure after driving.** It is normal for the tire pressure to be higher after driving.
- **Never exceed the vehicle capacity weight.** The passengers and luggage weight should be located so that the vehicle is balanced.
- **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.

## ROTATING TIRES



**To equalize tire wear and help extend tire life, Lexus recommends that you rotate your tires approximately every 12000 km (7500 miles). However, the most appropriate timing for tire rotation may vary according to your driving habits and road surface conditions.**

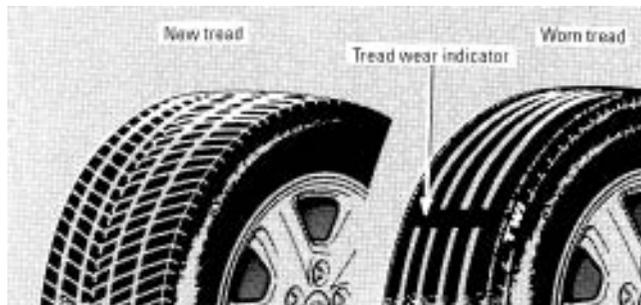
The wheel assemblies must be rotated as illustrated above.

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



Replace the tires when the tread wear indicators show. The location of the tread wear indicators is shown by the marks such as “TWI” or “△” 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.

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 an air loss occurs while driving, do not continue driving with a deflated tire. 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 also applies to the spare tire and tires stored for future use.

### 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**

## CHASSIS

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**Tread wear** – The treadwear grade is a comparative rating based on the wear rate of the tire when tested under controlled conditions on a specified government test course. For example, a tire graded 150 would wear one and a half (1 – 1/2) times as well on the government course as a tire graded 100. The relative performance of tires depends upon the actual conditions of their use, however, and may depart significantly from the norm due to variations in driving habits, service practices and differences in road characteristics and climate.

**Traction AA, A, B, C** – The traction grades, from highest to lowest, are AA, A, B and C, and they represent the tire's ability to stop on wet pavement as measured under controlled conditions on specified government test surfaces of asphalt and concrete. A tire marked C may have poor traction performance.

Warning: The traction grade assigned to this tire is based on braking (straight ahead) traction tests and does not include cornering (turning) traction.

**Temperature A, B, C** – The temperature grades are A (the highest), B, and C, representing the tire's resistance to the generation of heat and its ability to dissipate heat when tested under controlled conditions on a specified indoor laboratory test wheel. Sustained high temperature can cause the material of the tire to degenerate and reduce tire life, and excessive temperature can lead to sudden tire failure. The grade C corresponds to a level of performance which all passenger car tires must meet under the Federal Motor Vehicle Safety Standard No. 109. Grades B and A represent higher levels of performance on the laboratory test wheel than the minimum required by law.

Warning: The temperature grades for this tire are established for a tire that is properly inflated and not overloaded. Excessive speed, underinflation, or excessive loading, either separately or in combination, can cause heat buildup and possible tire failure.

### **Tire selection**

**When replacing a tire, use only the same size and construction as originally installed and with the same or greater load capacity.**

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.

**Do not mix radial, belted, or conventional tires on your vehicle.**

**Do not use tires or wheels other than the manufacturer's recommended size.**

It can cause dangerous handling characteristics, resulting in loss of control. If you need to change from conventional tires to radial tires or vice versa, replace them as a set.

## 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 road, conventional or radial tires provide better traction than snow or studded tires.

### Snow tire selection

**If you need snow tires, select the same size, construction and load capacity as the original tires on your Lexus.**

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.

### Snow tire installation

**Snow tires should be installed on all wheels.**

Installing snow tires on the rear wheels only can lead to an excessive difference in road grip capability between the front and rear tires which could cause loss of vehicle control.



### CAUTION

- Snow tires should be inflated as described below, but never above the maximum cold tire pressure shown on the tire sidewall.  
225/55R16 ... 220 kPa (2.2 kgf/cm<sup>2</sup> or bar, 32 psi)
- Never drive over 120 km/h (75 mph) with any type of snow tires.

### Tire chain selection

**Regulations regarding the use of tire chains vary according to location or type of road. Always check the local regulations before installing chains.**

Use SAE Class "S" type radial tire chains, with the exception of radial cable chains or V-bar type chains.

### Chain installation

**Install the chains on the rear tires as tightly as possible. Do not use tire chains on the front 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.

## CHASSIS

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### 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 damaged wheels, 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.

## ALUMINUM WHEEL PRECAUTIONS

- After driving your vehicle the first 1600 km (1000 miles), check that the wheel nuts are tight.
- 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 the 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**

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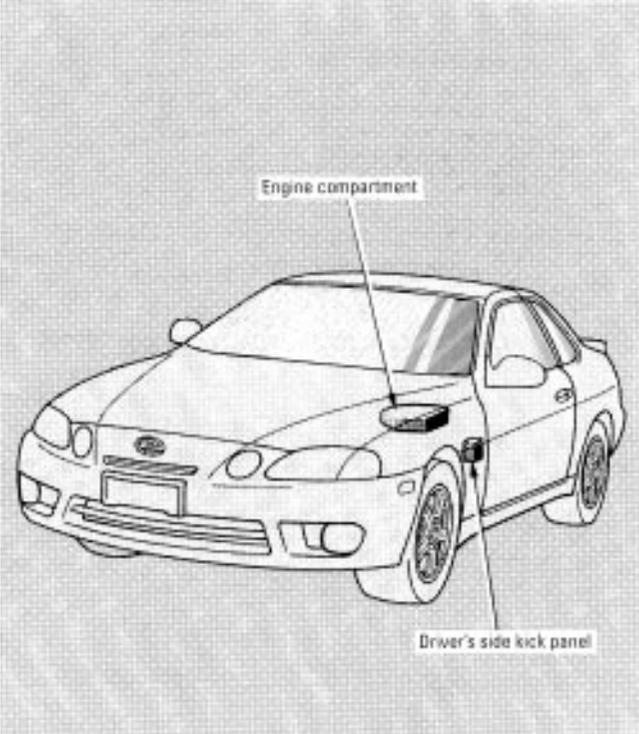
### **SERVICE PROCEDURES AND SPECIFICATIONS**

#### **Electrical components**

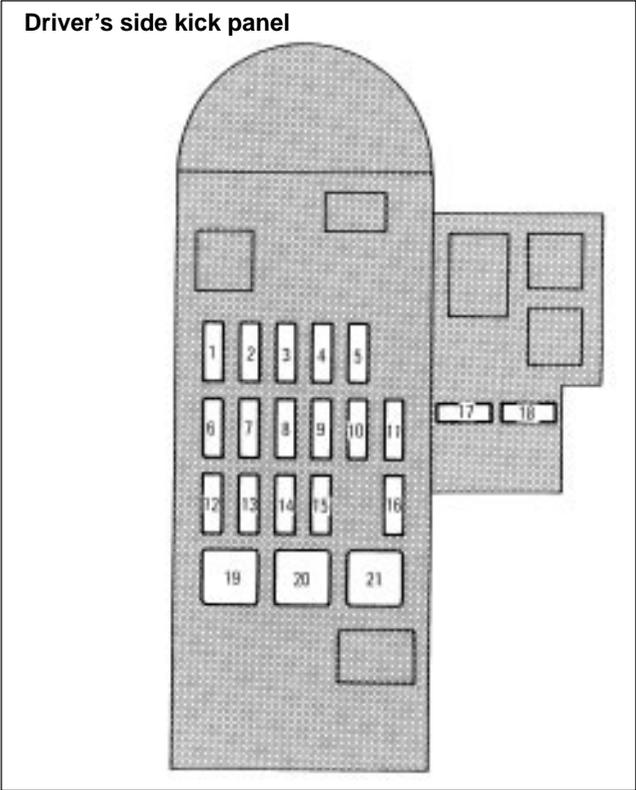
Specifications .....	245
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**SPECIFICATIONS**

-LOCATION OF FUSES



- FUSES



## ELECTRICAL COMPONENTS

Engine compartment				9	STOP	15	Stop lights, cruise control system cancel device
				10	CIG	15	Cigarette lighter, theft deterrent system, shift lock system, SRS airbag system, instrument panel lights
No.	FUSE	AMPERE	CIRCUIT	No.	FUSE	AMPERE	CIRCUIT
1	ENGINE	7.5	Charging system	11	RADIO NO 2	7.5	Radio, cassette tape player, compact disc player, power antenna, power rear view mirrors
2	HTR	10	Air conditioning system, rear window defogger	12	TAIL	7.5	Tail lights, parking lights, side marker lights, license plate lights
3	WIPER	20	Windshield wipers and washer	13	ECU-G	15	Cruise control system, power steering control system, shift lock system, anti-lock brake system, SRS airbag system, power door lock system, preset steering system, traction control system, electronically controlled hydraulic-driven cooling system, passenger's seat control system
4	ST	7.5	Starting system, cruise control system, multiport fuel injection system/sequential multiport fuel injection system, instrument panel lights				
5	IGN	7.5	Discharge warning light, multiport fuel injection system/sequential multiport fuel injection system				
6	PANEL	7.5	Instrument panel lights, glove box light				
7	MIR-HTR	10	Outside rear view mirror defogger				
8	TURN	7.5	Turn signal lights				

## ELECTRICAL COMPONENTS

14	<b>GAUGE</b>	<b>10</b>	Gauges and meters, service reminder indicators and warning buzzers (except discharge and open door warning lights), back-up lights, electronically controlled automatic transmission system, automatic transmission overdrive system, headlight
15	<b>ECU-B</b>	<b>15</b>	SRS airbag system, power rear view mirrors
16	<b>OBD</b>	<b>7.5</b>	On-board diagnosis system
17	<b>FOG</b>	<b>15</b>	Fog lights
18	<b>SEAT-HTR</b>	<b>15</b>	Seat heater

22	<b>DOME</b>	<b>10</b>	Interior light, personal lights, door courtesy lights, ignition switch light, open door warning light, trunk light, electronic moon roof system, preset steering system, seat belt reminder system, cruise control system, air conditioning system, inside rear view mirror, door lock and theft deterrent system, foot light, power rear view mirror, locking with wireless remote control system, passenger's seat control system.
23	<b>EFI</b>	<b>30</b>	Multiport fuel injection system/sequential multiport fuel injection system
24	<b>HAZ-HORN</b>	<b>15</b>	Emergency flashers, horns

No.	FUSE	AMPERE	CIRCUIT
19	<b>PWR</b>	<b>30</b>	Preset steering, electronic moon roof, power windows, theft deterrent system
20	<b>IG SW</b>	<b>40</b>	Starting system
21	<b>DOOR</b>	<b>30</b>	Theft deterrent system, seat control system, fuel opener control system, power door lock system

## ELECTRICAL COMPONENTS

No.	FUSE	AMPERE	CIRCUIT
25	RADIO NO.1	20	Radio, cassette tape player, compact disc player, power antenna
26	TEL	15	Telephone
27	ALT SENCING	7.5	Charging system
28	ETCS	15	Traction control system
29	HEAD (RH-LWR)*1	15	Right-hand headlight (low beam)
30	HEAD (LH-LWR)*2	15	Left-hand headlight (low beam)
31	DRL	7.5	Daytime Running Light System
32	HEAD (RH-LPR)	15	Right-hand headlight (high beam)
33	HEAD (LH-LPR)	15	Left-hand headlight (high beam)
34	INJ	30	SC300 Starting system

\*1 SC300: HEAD (RH)

\*2 SC300: HEAD (LH)

## CHECKING BATTERY CONDITION

### Precautions



### CAUTION

#### BATTERY PRECAUTIONS

The 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.

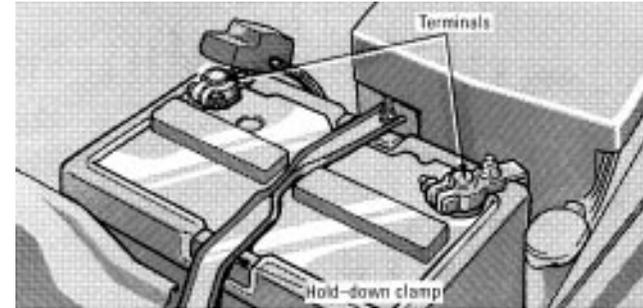
- Avoid contact with eyes, skin or clothes.
- Never inhale or swallow electrolyte.
- Wear protective safety glasses when working near the battery.
- Keep children away from the battery.

#### EMERGENCY MEASURES

- If electrolyte gets in your eyes, flush your eyes with clean water for at least 15 minutes and get immediate medical attention. If possible, continue to apply water with a sponge or cloth while traveling to the medical office.

- If electrolyte gets on your skin, thoroughly wash the contact 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 battery exterior



**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.

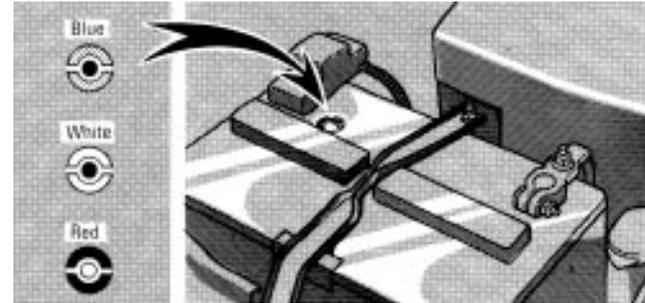
## ELECTRICAL COMPONENTS

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### **NOTICE**

- *Make sure the engine 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.*

### Checking battery fluid



**Check the battery condition by the hydrometer color.**

BLUE – Good condition.

WHITE – Charging necessary. Have the battery checked by your Lexus dealer.

RED – Have the battery checked by your Lexus dealer.

### **NOTICE**

***Do not refill the battery with water.***

## 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.



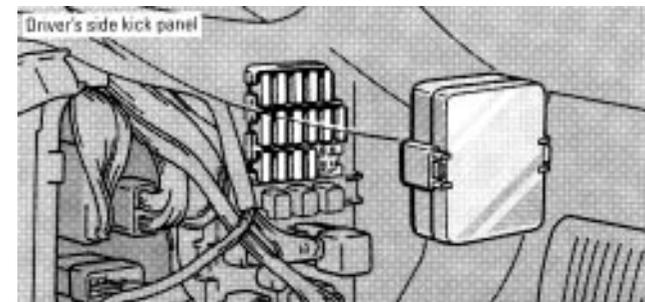
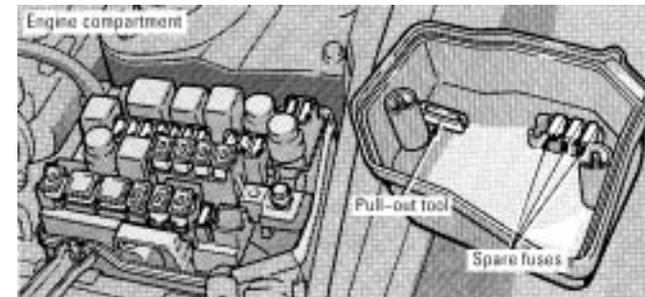
### CAUTION

- 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 engine is running. Also, make sure all accessories are turned off.*

## CHECKING AND REPLACING THE BLADE TYPE FUSES

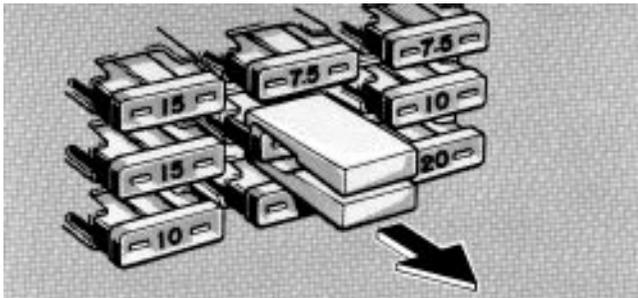


1. Turn the ignition switch off and open the fuse box lid.

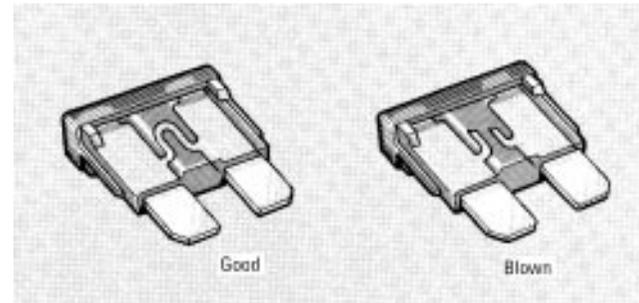
Determine which fuse may be causing the problem. The lid of the fuse box shows the name of the circuit for each fuse.

## ELECTRICAL COMPONENTS

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**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.**



a. 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.

b. 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 "CIG", "RADIO NO.1", "DOME" or "HTR" 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 as possible to, the amperage. 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.

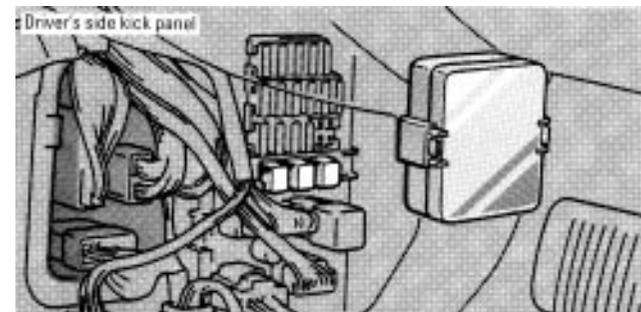
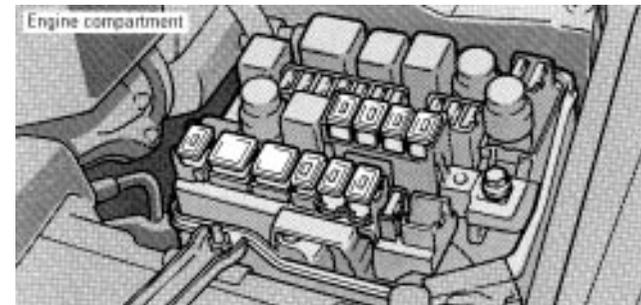
If the new fuse immediately blows out, there is a problem with the electrical system. Have your Lexus dealer correct it as soon as possible.



**CAUTION**

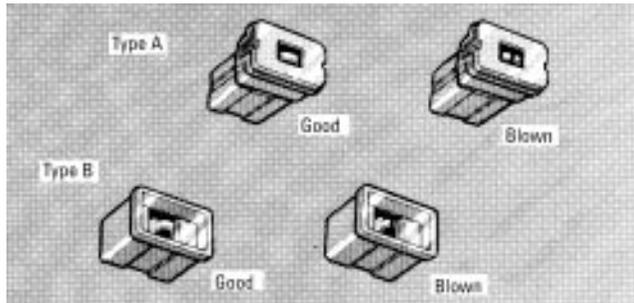
Never use a fuse with a higher amperage rating, or any other object, in place of a fuse. This may cause extensive damage and possibly a fire.

## CHECKING THE CARTRIDGE TYPE FUSES



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.

## ELECTRICAL COMPONENTS



If there is an overload in the circuits from the battery, the fuses are designed to blow before the entire wiring harness is damaged.

### **NOTICE**

***Before replacing the fuses, have the cause of electrical overload determined and repaired by your Lexus dealer.***



### **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.**

## ADDING WASHER FLUID



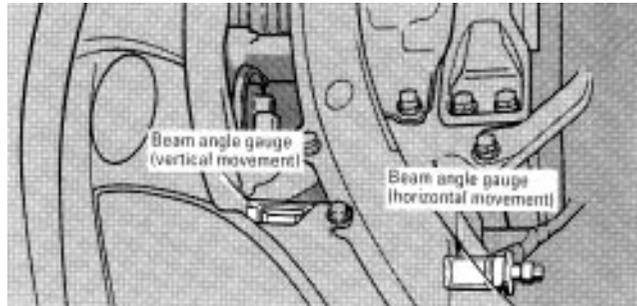
**If the washer tank becomes nearly empty, add washer fluid.**

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**

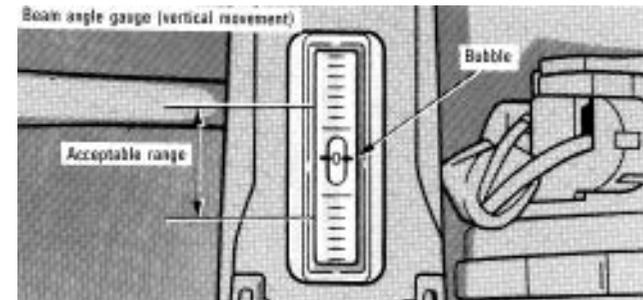
***Do not use engine antifreeze or any other substitute because it may damage your vehicle's paint.***

## CHECKING THE HEADLIGHT AIM (For low beam only)



Before checking the headlight aim:

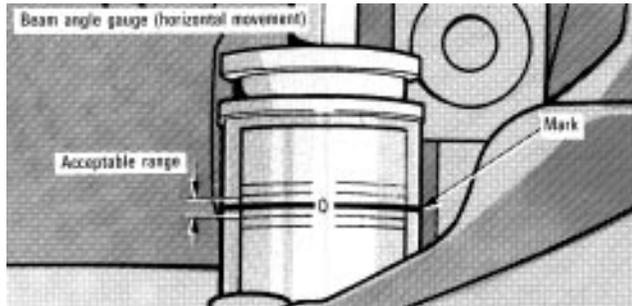
1. Be sure that the body around the headlight is not deformed.
2. Park the vehicle on a level spot.
3. The driver should stay in the driver's seat so that the vehicle has its normal load (with the tank full).
4. Bounce the vehicle several times.



**To check the headlight aim, check the vertical and horizontal gauges.**

1. Look at the beam angle gauge (vertical movement). The bubble of the gauge should not deviate from the center of the gauge by more than two marks on either side of the gauge.

## ELECTRICAL COMPONENTS



2. Look at the beam angle gauge (horizontal movement). The blue mark should not deviate by more than one mark on either side of the gauge.

If the error is over the value specified above, take the vehicle to your Lexus dealer to adjust the headlight aim.

## REPLACING LIGHT BULBS

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.



### CAUTION

**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.**

### NOTICE

***Only use a bulb of the listed type.***

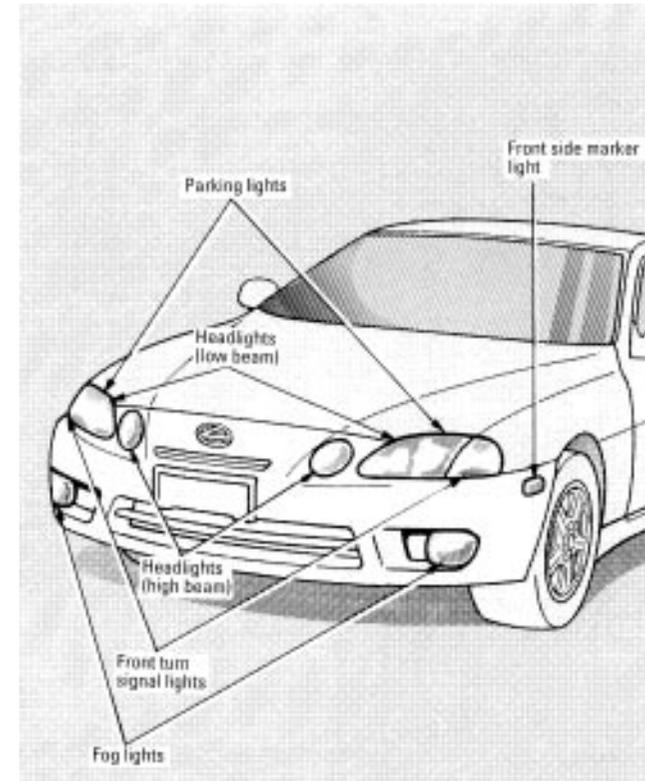
Light Bulbs	Bulb No.	W	Type
Headlights (low beam)	9006	55	A
Headlights (high beam)	9005	65	B
Fog lights	—	55	C
Parking lights	—	5	E
Front side marker lights	194	3.8	E
Front turn signal lights	1157 NA	27/8	D
Rear turn signal lights	1156	27	D

## ELECTRICAL COMPONENTS

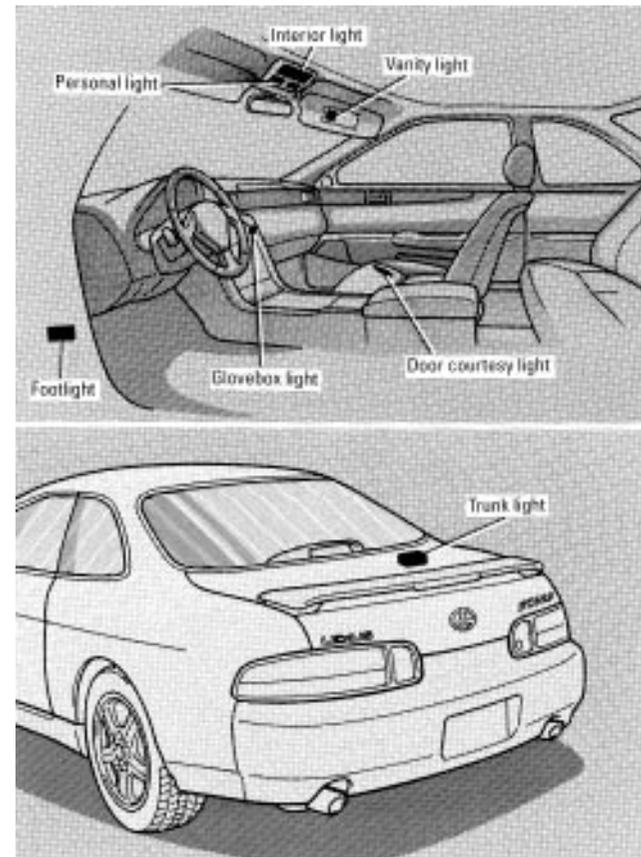
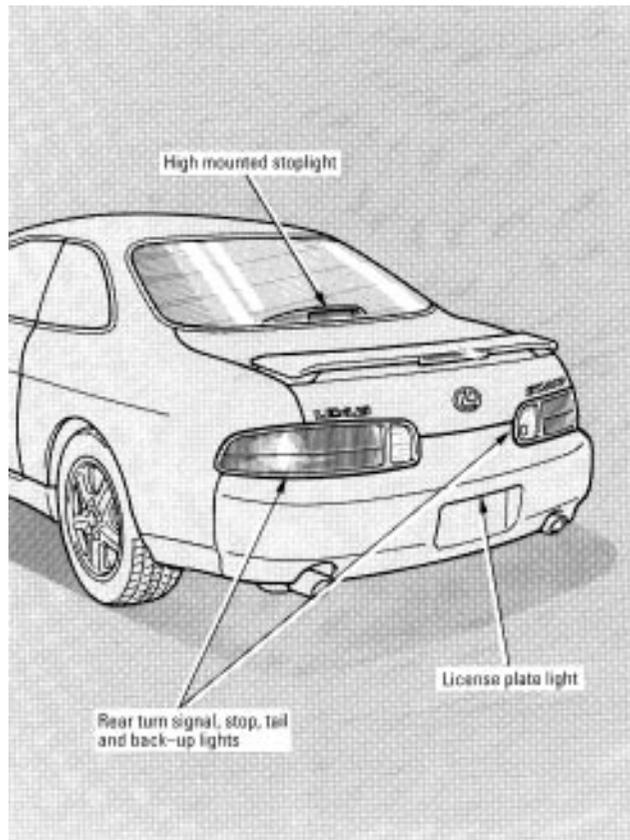
Light Bulbs	Bulb No.	W	Type
Stop lights	1156	27	D
Tail lights	—	5	E
Back-up lights	1156	27	D
High mounted stoplight	921	18	E
License plate lights	—	5	E
Interior light	—	10	F
Personal lights	—	8	D
Glove box light	—	1.2	E
Door courtesy lights	—	5	E
Footlights	—	1.2	E
Vanity lights	—	3	F
Trunk light	194	3.8	E

- A: HB4 halogen bulbs
- B: HB3 halogen bulbs
- C: H3 halogen bulbs
- D: Single end bulbs
- E: Wedge base bulbs
- F: Double end bulbs

### LIGHT LOCATION



## ELECTRICAL COMPONENTS



## **SECTION 6-5**

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### **SERVICE PROCEDURES AND SPECIFICATIONS**

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## BODY

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### SPECIFICATIONS

#### – DIMENSIONS AND WEIGHT

Overall length	4900 mm (192.9 in.) / 4890 mm (192.5 in.)*1
Overall width	1800 mm (70.9 in.)
Overall height	1350 mm (53.1 in.)*2
Wheelbase	2690 mm (105.9 in.)
Tread – Front	1520 mm (59.8 in.)
– Rear	1525 mm (60.0 in.)
Vehicle capacity weight (occupants + luggage)	340 kg (750 lb.)

\*1: without front license plate moulding

\*2: Unladen vehicle

#### – FUEL TANK

Capacity	78 L (20.6 gal., 17.2 Imp.gal.)
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## 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 them. 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 262 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.

## BODY

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**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 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 in covered with water or snow, your garage may be so damp it will cause corrosion. Even if your garage is heated, a wet vehicle can corrode if the ventilation is poor.

## WASHING AND WAXING

### 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 having stuck of coal tar, tree sap, bird droppings and carcass of an insect
- When driving in the areas where there is a lot of smoke, soot, dust, iron dust and chemical substance
- 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 hot to the touch.**

1. Rinse off loose dirt with a hose. Remove any mud or road salt from the underside of the vehicle or in 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.

**Plastic wheel ornaments:** The plastic wheel ornaments are damaged easily by organic substances. If any organic substance splashes an ornament, be sure to wash it off with water and check if the ornament is damaged.

 **CAUTION**

**Do not attach the heavily damaged plastic wheel ornament. It may fly off the wheel and cause accidents while the vehicle is moving.**

**Aluminum wheels:** Use only a mild soap or neutral detergent.

**Urethane bumpers and side moldings:** Wash carefully. Do not scrub with abrasive cleaners. The bumper and side molding faces are soft.

**Road tar:** Remove with turpentine or cleaners that are marked safe for painted surfaces.

**NOTICE**

***Do not use organic substances (gasoline, kerosene, benzine or strong solvents), which may be toxic or cause damage.***

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.

**Automatic car wash**

**NOTICE**

***To prevent damage to the antenna, make sure it is retracted before driving your vehicle through an automatic car wash.***

Your vehicle may be washed in an automatic car wash, but remember that the paint can be scratched by some type 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.

**Waxing your Lexus**

**Polishing and waxing is recommended to maintain the original beauty of your Lexus' finish.**

Once a month or if the vehicle surface does not repel water well, apply wax.

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.

## BODY

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3. Wax the vehicle again when water does not bead but remains on the surface in large patches.

## CLEANING THE INTERIOR



### CAUTION

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 audio components or other electrical components above or under the floor carpet (or mat) and cause a malfunction; and it may cause body corrosion.

### Leather Interior

The selected leather is used in your Lexus. Due to a leather product, 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 benzene, 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.*

### Synthetic Leather Areas (Dash)

**The synthetic leather areas 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.*
- *When cleaning the inside of the rear window, be careful not to scratch or damage the heater wires.*

## BODY

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### **Air Conditioning Control Panel, Car Audio, 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**

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## **REPORTING SAFETY DEFECTS FOR U.S. OWNERS**

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## REPORTING SAFETY DEFECTS

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### **REPORTING SAFETY DEFECTS FOR U.S. OWNERS**

If you believe that your vehicle has a defect which could cause a crash or could cause injury or death, you should immediately inform the National Highway Traffic Safety Administration (NHTSA) in addition to notifying 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.

## GAS STATION INFORMATION

- **Fuel selection:**

Select premium unleaded gasoline with an Octane Rating of 91 (Research Octane Number 96) or higher for optimum engine performance. However, if such premium type cannot be obtained, you may temporarily use unleaded gasoline with an Octane Rating as low as 87 (Research Octane Number 91).

- **Fuel tank capacity:**

78 L (20.6 gal., 17.2 imp. gal.)

- **Engine oil:**

API SJ, "Energy-Conserving" multigrade engine oil or ILSAC multigrade engine oil.

Recommended oil viscosity – SAE 5W-30 if normal temperatures are below 38°C (100°F).

Oil capacity:

Drain and refill

<b>SC400</b> –	with filter	4.7 L (5.0 qt., 4.2 imp. qt.)
	without filter	4.8 L (5.1 qt., 4.2 imp. qt.)

<b>SC300</b> –	with filter	5.2 L (5.5 qt., 4.5 imp. qt.)
	without filter	4.9 L (5.2 qt., 4.4 imp. qt.)

See page 223 for detailed information.

- **Engine coolant:**

Capacity: **SC400** – 11.6 L (11.5 qt., 9.6 imp. qt.)  
**SC300** – 8.4 L (8.9 qt., 7.4 imp. qt.)

Coolant type – "Toyota Long Life Coolant" or equivalent

With ethylene-glycol type coolant for a proper corrosion protection of aluminum components

Do not use alcohol type antifreeze or plain water alone.

For checking the engine coolant, see page 226.

For changing the engine coolant, see the label on the coolant reservoir.

- **Manual transmission:**

Oil type – Multipurpose gear oil API GL-4 or GL-5

Recommended oil viscosity – SAE 75W-90 or 80W-90

- **Automatic transmission:**

Fluid type – **SC400** – **Automatic transmission fluid**

**Type T-IV** or equivalent

**SC300** – Automatic transmission fluid

D-II or DEXRON® III

(DEXRON® II)

- **Tire information:**

See page 237 through 243 for detailed information.

- **Tire pressure:**

Tire size: **SC400, SC300** – 225/55 R16 94V

Tire pressure: **SC400, SC300** – Front 220 kPa  
(2.2 kgf/cm<sup>2</sup> or bar, 32 psi)  
Rear 220 kPa  
(2.2 kgf/cm<sup>2</sup> or bar, 32 psi)

**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.

**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, provides a schedule for its performance, 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 SC400, SC300 written in English, may be purchased as applicable from any Lexus dealer.  
Pub. Name: 2000 SC400, SC300 Repair Manual  
Pub. No.: Vol.1 RM715U1  
Vol.2 RM715U2