

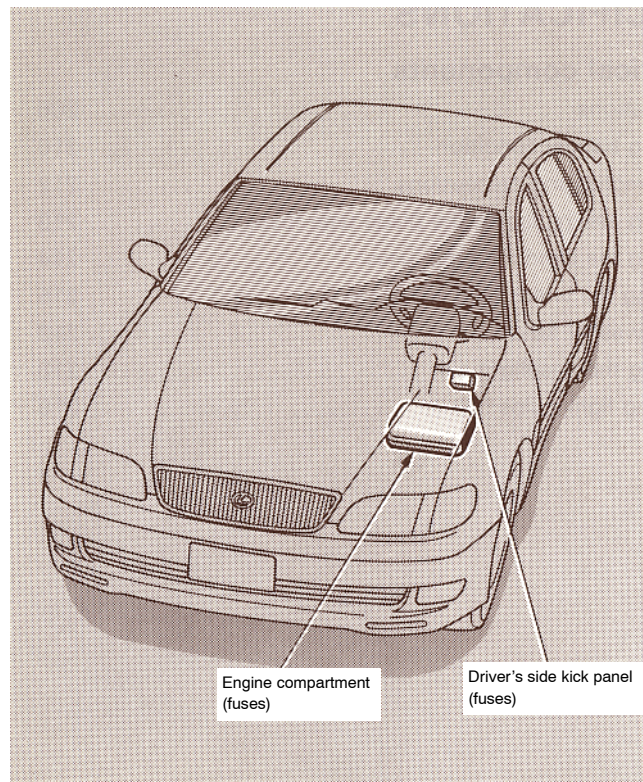
SERVICE PROCEDURES AND SPECIFICATIONS

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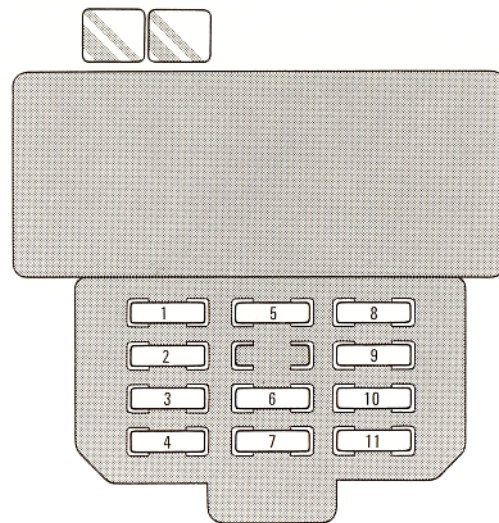
SPECIFICATIONS

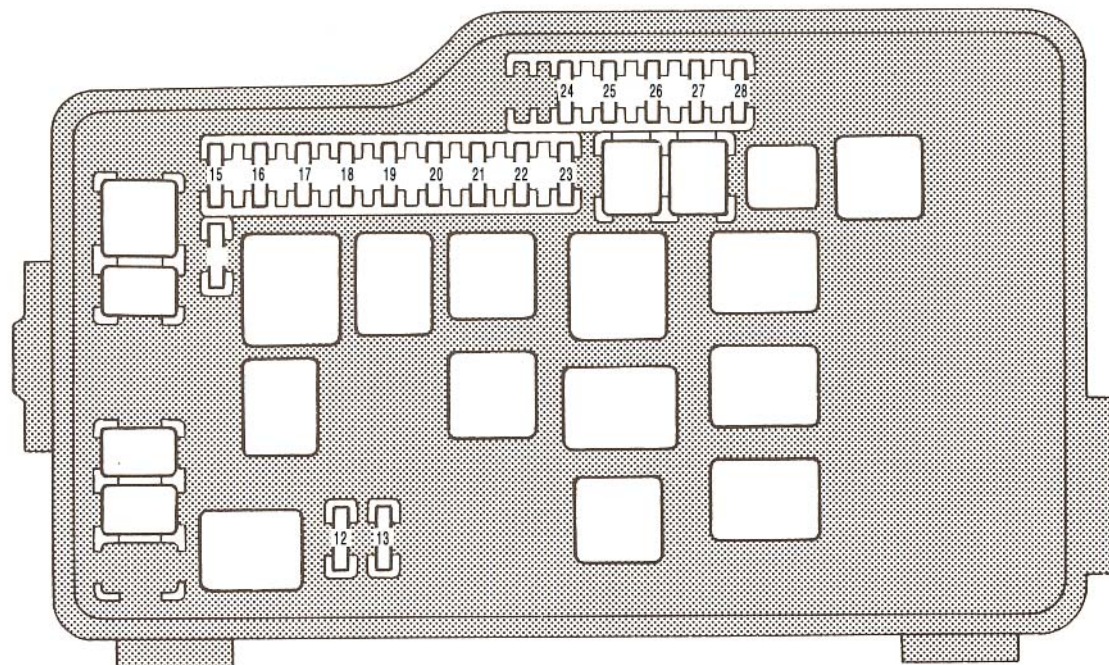
– LOCATION OF FUSES



– FUSES

Driver's side kick panel



Engine compartment

ELECTRICAL COMPONENTS

NO.	FUSE	AMPERE	CIRCUIT
1	SEAT HTR	15	Seat heater
2	STOP	20	Shift lock system, high mounted stoplight, cruise control system, anti-lock brake system, traction control system, multiport fuel injection system/sequential multiport fuel injection system, stop lights
3	GAUGE	15	Rear window and outside rear view mirror defogger, heater control system, air conditioning system, gauges and meters, service reminder indicators and warning buzzers (except discharge and open door warning lights), charging system, automatic transmission indicator, back-up lights, daytime running light system
4	ECU-IG	10	Shift lock system, telephone, power door lock system for passenger seat, seat belt system, anti-lock brake system, power steering control system, traction control system, cruise control system, driving pattern selector switch, tilt and telescopic control system, power antenna, electronic cooling fan system, instrument panel lights, automatic light control system, power door lock control system

NO.	FUSE	AMPERE	CIRCUIT
5	CIG	15	Clock, air conditioning system, radio, cassette tape player, compact disc player, shift lock system, SRS, front and rear cigarette lighters, power door lock control system, power rear view mirror control system
6	TURN	10	Turn signal lights and indicator
7	WIPER	15	Windshield wipers and washer, headlight cleaner
8	PANEL	7.5	Automatic transmission indicator, heater control system, emergency flasher switch, glovebox light, rear ashtrays, clock, front cigarette lighter light, radio, cassette tape player, compact disc player, driving pattern selector switch light, instrument panel lights, daytime running lights system
9	SRS	7.5	SRS
10	TAIL	10	License plate lights, parking lights, tail lights

NO.	FUSE	AMPERE	CIRCUIT
11	MIR HTR	10	Outside rear view mirror defogger
12	FOG	15	Fob lights
13	DRL	7.5	Vehicles sold in Canada Daytime running light system
14	TRAC	10	Traction control system
15	DOME	10	Interior light, vanity lights, electric moon roof system, cruise control system, open door warning light, personal lights, trunk room light, door courtesy lights, footlights, ignition switch light, clock, anti-lock brake system, power antenna
16	ECU-B	7.5	Locking with wireless remote control system, anti-lock brake system, traction control system, cruise control system, daytime running light system
17	ALT SENSING	7.5	Charging system

NO.	FUSE	AMPERE	CIRCUIT
18	AM2	15	Multiport fuel injection system / sequential multiport fuel injection system, SRS, charging lamp, starting system, electronic ignition system / distributor ignition system, gauges and meters, service reminder indicators and warning buzzers (except discharge and open door warning lights)
19	TEL	15	Telephone
20	HAZ. HORN	20	Emergency flashers, horns
21	EFI	20	Electronically controlled automatic transmission system, multiport fuel injection system / sequential multiport fuel injection system
22	RADIO NO. 1	25	Radio, cassette tape player, compact disc player, power antenna
23	IG2	30	Electronic ignition system / distributor ignition system

NO.	FUSE	AMPERE	CIRCUIT
24	HEAD RH	15	Vehicles sold in U.S.A. Right hand headlight
	HEAD RH-UPR	10	Vehicles sold in Canada Right-hand headlight (high beam)
25	HEAD LH	15	Vehicles sold in U.S.A. Left-hand headlight
	HEAD LH-UPR	10	Vehicles sold in Canada Left-hand headlight (high beam)
26	HEAD RH-LWR	10	Vehicles sold in Canada Right-hand headlight (low beam)
27	HEAD LH-LWR	10	Vehicles sold in Canada Left-hand headlight (low beam)
28	RDI FAN	30	Electronic cooling fan system

CHECKING BATTERY CONDITION

CAUTION:

BATTERY PRECAUTIONS

The battery produces a 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.

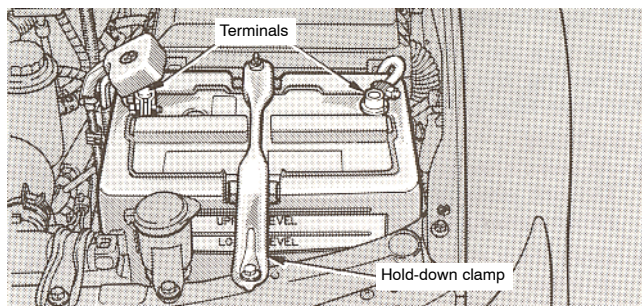
The electrolyte contains poisonous and corrosive sulfuric acid.

- 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 en route to the medical office.
- If electrolyte gets on your skin, thoroughly wash the contacted area. If you feel a pain or burn, get medical attention immediately.

- If electrolyte gets on your clothes, there is a possibility of its soaking through to your skin, so immediately take off the exposed clothing and follow the procedure above, if necessary.
- If you happen to 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.

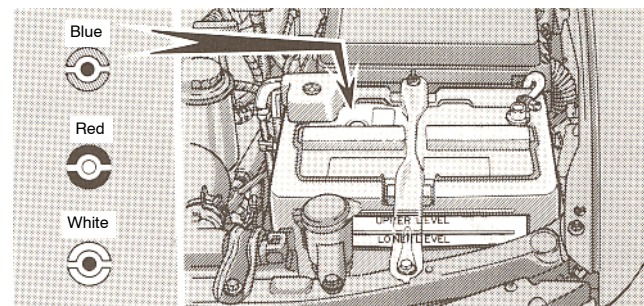


1. Check the battery for corroded or loose connections, cracks, or loose hold-down clamps.

- 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.
- If the connections are loose, tighten the clamp bolts – but do not overtighten.
- Tighten the hold-down clamp only enough to keep the battery firmly in place. Overtightening may damage the battery case.

NOTICE:

- Be sure the engine and all accessories are turned off before performing maintenance.
- 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.



2. Check the hydrometer as shown.

BLUE – Good conditions.

WHITE – Charging necessary. Have the battery checked by your Lexus dealer.

RED – Have the battery checked by your Lexus dealer.

NOTICE:

- Your Lexus has a maintenance free battery. Do not refill the battery with water.
- Use a cover on the battery for longer life.

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. Be sure the power switch on the recharger is off when connecting the charger cables to the battery and when disconnecting them.

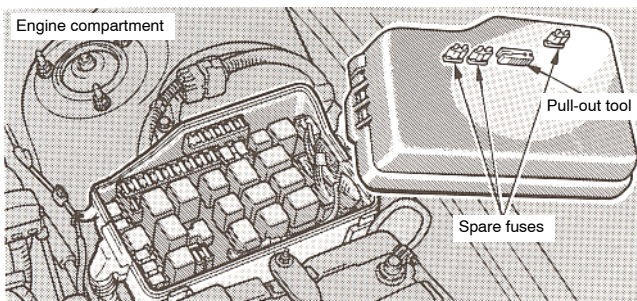
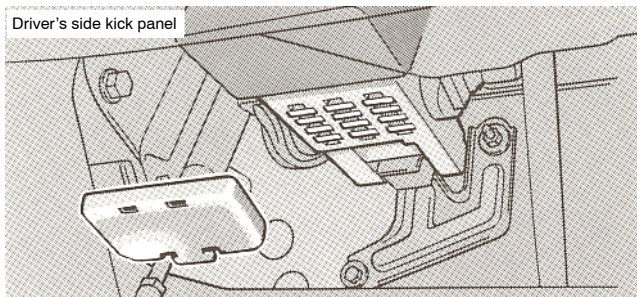
CAUTION:

- **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 (5A or less). Charging at a quicker rate is dangerous.**

NOTICE:

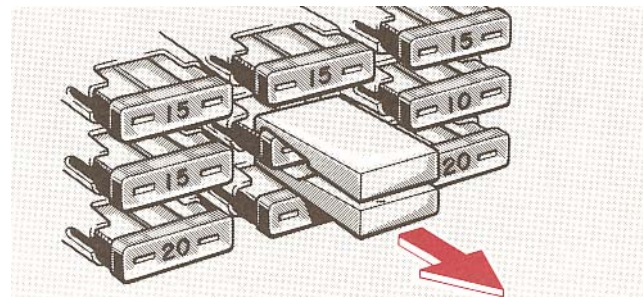
Never recharge the battery while the engine is running. Also, be sure all accessories are turned off.

CHECKING AND REPLACING THE BLADE TYPE FUSES



1. Turn the ignition switch off and open the fuse box lid.

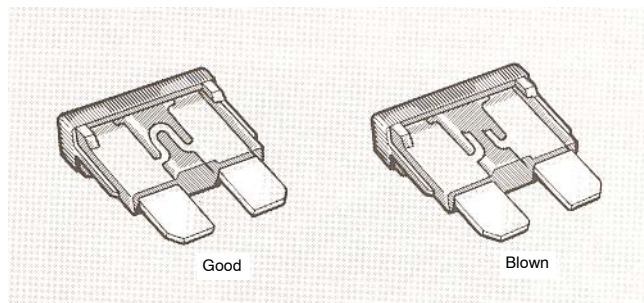
Determine which fuse may be causing the problem. The lid of the fuse box shows the name of the circuit for each fuse.



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. Install only 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 “SEAT HTR” fuse, which may be dispensable for normal driving, and use it if its amperage rating is the same.

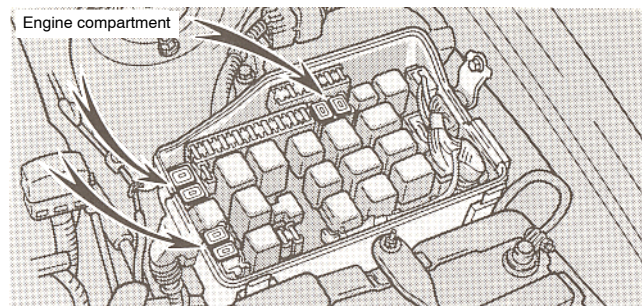
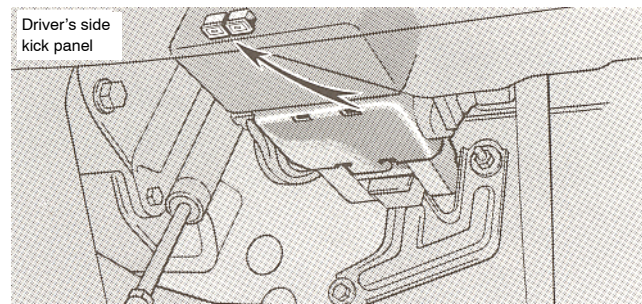
If you cannot use one of the same amperage, use one lower than, but as close as possible to, the amperage. If the amperage is lower than that specified, the fuse might blow out again but this does not indicate anything wrong. Be sure to get the correct fuse as soon as possible and return the substitute to its original clips.

It is a good idea to purchase a set of spare fuses and keep them in your vehicle for emergencies.

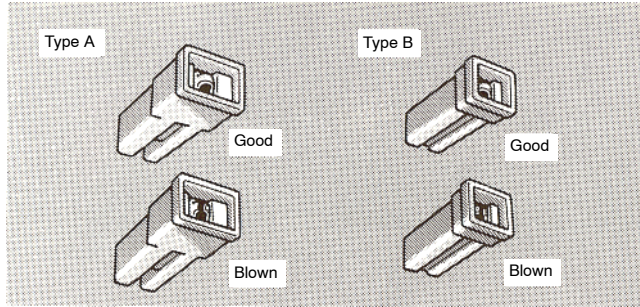
If the new fuse immediately blows out, there is a problem with the electrical system. Have your Lexus dealer correct it as soon as possible.

CAUTION:
Never use a fuse with a higher amperage rating, or another 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 melted, they must be replaced.



If there is an overload in the circuits from the battery, the fuses are designed to melt 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.

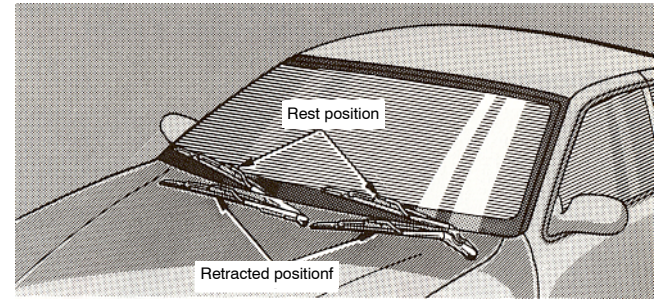
CAUTION:

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.

REPLACING THE WINDSHIELD WIPER BLADES

When the wiper no longer cleans adequately, the wiper blades may be worn or cracked requiring replacement.

Before replacement



Make sure whether the wiper blades are at the rest position or at the retracted position.

If at the rest position---

Swing the wiper arm away from the windshield until it stands up.

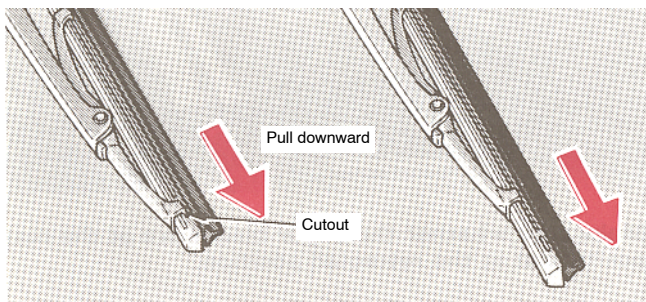
If at the retracted position---

1. Change the position of the wiper blade to the rest position above the hood level. See page 17 for changing the wiper blade position.
2. Swing the wiper arm away from the windshield until it stands up.

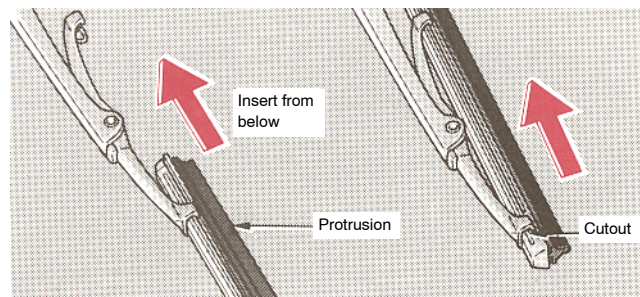
NOTICE:

Do not replace the wiper blade at the retracted position as it may damage your vehicle's paint.

Replacement of rubber



1. Pull the end of the rubber downward until the cutout of the rubber is free of the blade frame.
2. Pull the rubber blade out the blade frame.

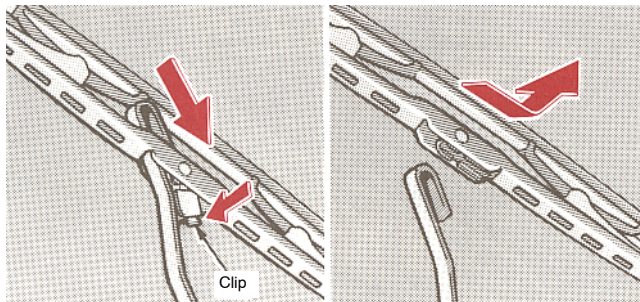


3. To install a new rubber, insert the end with small protrusion from the lower end of the blade frame, and work the rubber along up to the end of the blade frame.
4. Once all of the rubber is in the blade frame, make sure the end of the blade frame is inserted in the cutout of the rubber.

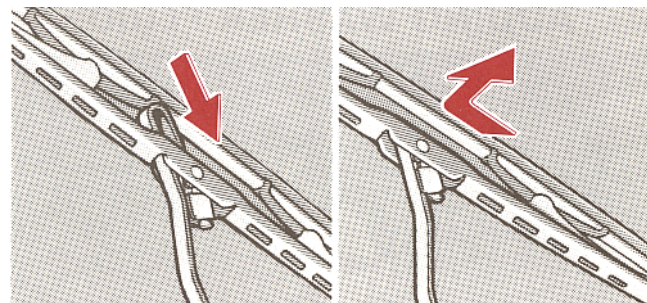
NOTICE:

Be careful not to scratch the glass surface with the wiper frame.

Replacement of wiper blade



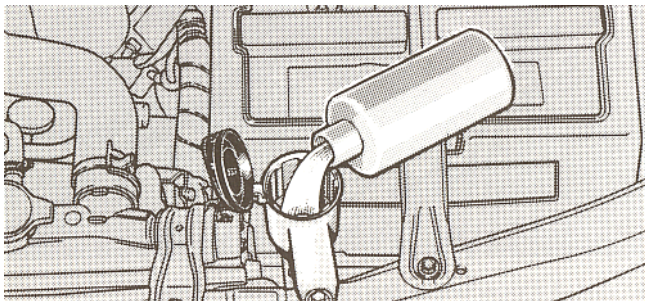
1. Push the clip to release the lock joining the wiper arm and blade.
2. Slide the wiper blade downward to separate it from the wiper arm.
3. Remove the wiper blade.



4. Install a new wiper blade to the wiper arm.
5. Slide the wiper blade upward fully until it locks.
6. Return the wiper blade and arm.

NOTICE:
Be careful not to scratch the glass surface with the wiper frame.

ADDING WASHER FLUID



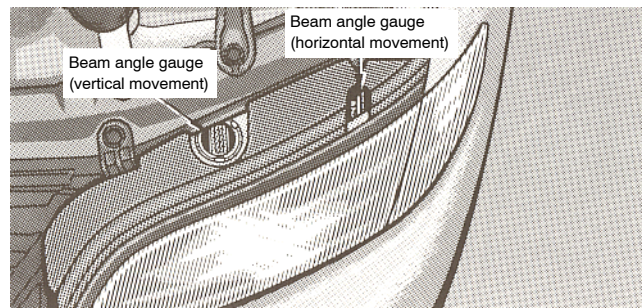
If the washer tank becomes nearly empty, add washer fluid.

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:

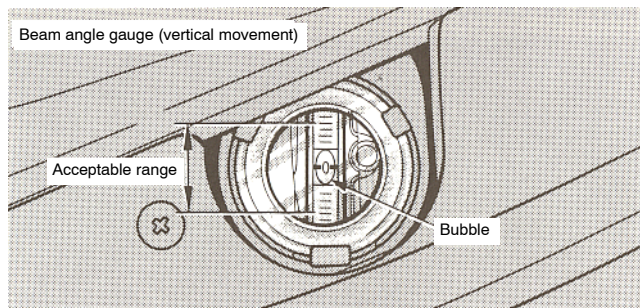
Do not use engine antifreeze or any other substitute because it may damage your vehicle's paint.

CHECKING THE HEADLIGHT AIM



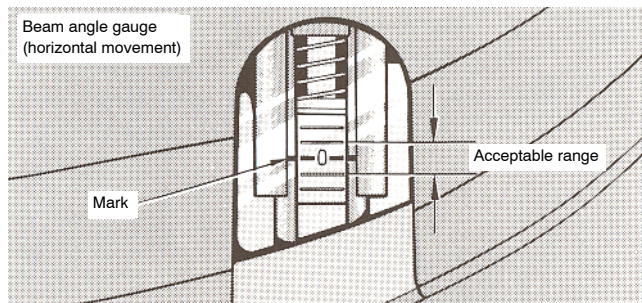
Before checking the headlight aim:

1. Be sure that the body around the headlight is not deformed.
2. Park the vehicle on a level spot.
3. The driver gets into the driver's seat and puts the vehicle in a state readying for a driving (with a full tank).
4. Bounce the vehicle several times.



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 four marks to either side of the gauge.



2. Look at the beam angle gauge (horizontal movement). The red mark should not deviate by more than one mark to 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.

The single end bulbs are removed by pressing them in and turning counterclockwise. Double-end bulbs (*) or wedge base bulbs (**) pull straight out of the holder clips.

NOTICE:
Only use a bulb of the listed type.

ELECTRICAL COMPONENTS

Light Bulbs	Bulb No.	W
Headlights (low and high beam)	9006	55
Headlights (high beam)	9005	65
Fog lights	H3	55
Front turn signal and parking lights	1157 NA	27/8
Rear turn signal lights	1156	27
Stop and tail lights	1157	27/8
Back-up lights	1156	27
License plate lights**	—	5
Rear side marker lights	1157	27/8
Interior light		
with moon roof*	—	8
without moon roof	—	8
Front personal lights	—	8
Rear personal lights*	—	3
Glovebox light**	—	1.2
Door courtesy lights**	194	3.8
Footlights**	—	1.4
Vanity lights*	—	3
Trunk room light**	194	3.8

LIGHT LOCATION

