

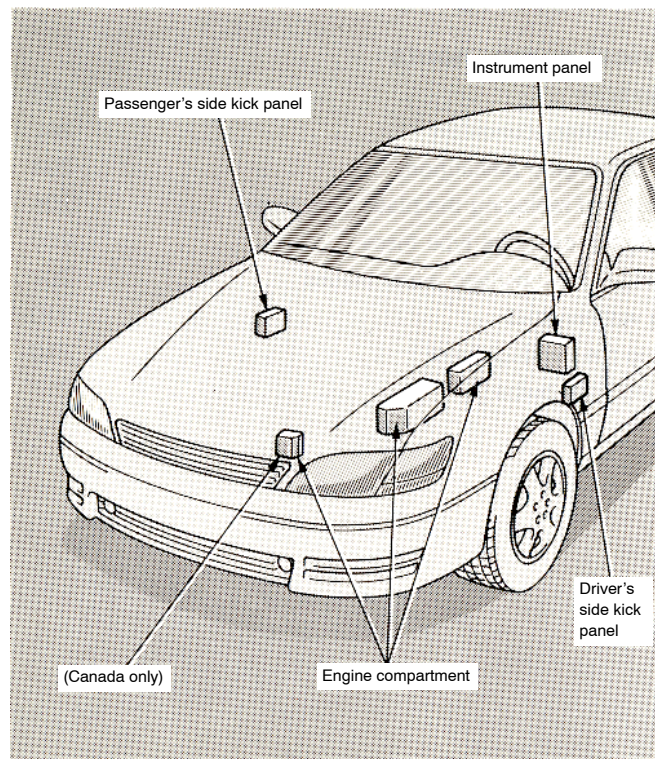
SERVICE PROCEDURES AND SPECIFICATIONS

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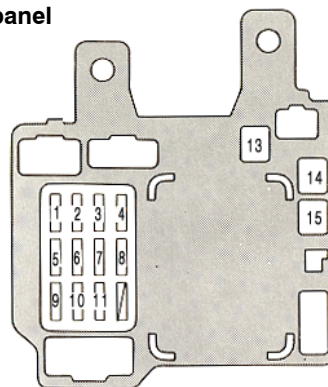
SPECIFICATIONS

- LOCATION OF FUSES

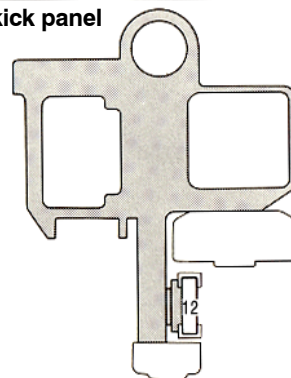


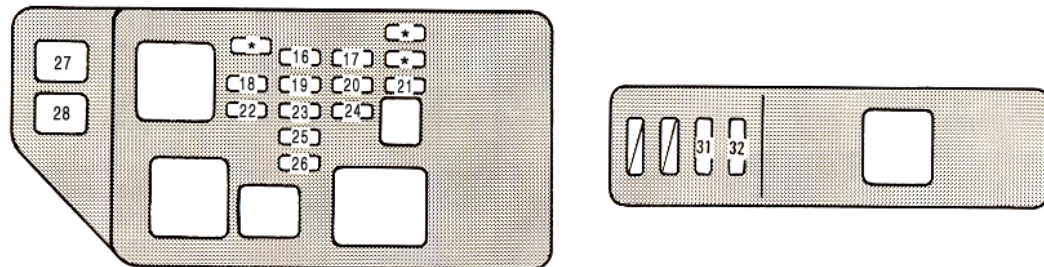
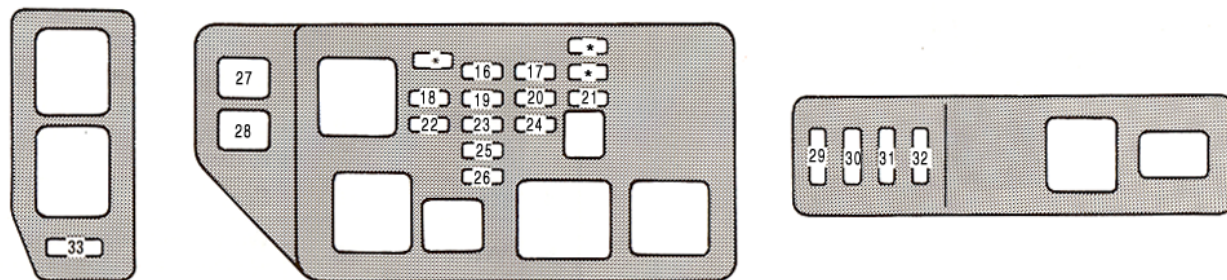
- FUSES

Instrument panel

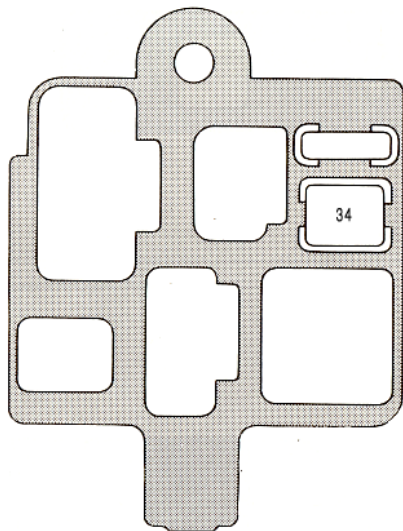


Driver's side kick panel



Engine compartment (U.S.A.)**Engine compartment (Canada)**

Passenger's side kick panel



NO.	FUSE	AMPERE	CIRCUIT
1	ECU-IG	15	Cruise control system, power steering control system, shift lock system, anti-lock brake system. SRS airbag system, power door lock and theft deterrent system, power antenna, telephone, electronic cooling fan system.
2	GAUGE	15	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, rear window and outside rear view mirror defogger
3	STOP	25	Stop lights, cruise control system cancel device, shift lock system, anti-lock brake system
4	SEAT HTR	15	Seat heater
5	WIPER	20	Windshield wipers and washer, headlight cleaner

NO.	FUSE	AMPERE	CIRCUIT
6	TURN	7.5	Turn signal lights
7	IGN	7.5	Multiport fuel injection system/ sequential multiport fuel injection system, electronic cooling fan system, SRS airbag system
8	CIG/ RADIO	15	Radio, cassette tape player, compact disc player, power antenna, power rear view mirrors, cigarette lighter, theft deterrent system, shift lock system, SRS airbag system, clock
9	MIR-HTR	10	Outside rear view mirror defogger
10	TAIL	15	Tail lights, parking lights.
11	SRS	7.5	SRS airbag system
12	STARTER	10	Starting system, multiport fuel injection system/sequential multiport fuel injection system
13	AM1	40	Electronic ignition system/ distributor ignition system
14	P/W	30	Electronic moon roof, power windows
15	DEF	40	Rear window and outside rear view mirror defogger

NO.	FUSE	AMPERE	CIRCUIT
16	OBD	7.5	On board diagnosis
17	ALT-S	7.5	Charging system
18	EFI	15	Multiport fuel injection system/ sequential multiport fuel injection system
19	HAZ	10	Emergency flashers
20	AM2	30	Electronic ignition system/ distributor ignition system, multiport fuel injection system/ sequential multiport fuel injection system
21	TEL	15	Telephone
22	HORH	10	Horns
23	DOME	20	Radio, cassette tape player, compact disc player, power antenna, interior light, personal lights, door courtesy lights, ignition switch light, trunk room light, electronic moon roof system, instrument panel lights, door lock and theft deterrent system, locking with wireless remote control system
24	ECU-B	15	SRS airbag system, anti-lock brake system, daytime running light system

NO.	FUSE	AMPERE	CIRCUIT
25	HEAD (LH) HI	15	Vehicles sold in the U.S.A. Left-hand headlight Vehicles sold in Canada Left-hand headlight (high beam)
26	HEAD (RH) HI	15	Vehicles sold in the U.S.A. Right-hand headlight Vehicles sold in Canada Right-hand headlight (high beam)
27	ALT	100	Charging system
28	ABS	60	Anti-lock brake system
29	HEAD (LWR-LH)	15	Vehicles sold in Canada Left-hand headlight (low beam)
30	HEAD (LWR-RH)	15	Vehicles sold in Canada Right-hand headlight (low beam)
31	FOG	15	Fog lights
32	RADIO	20	Radio, cassette tape player, compact disc player, power antenna
33	DRL	7.5	Vehicles sold in Canada Daytime Running Light System
34	HTR	40	Environmental control system
*	SPA		Spare fuse

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.

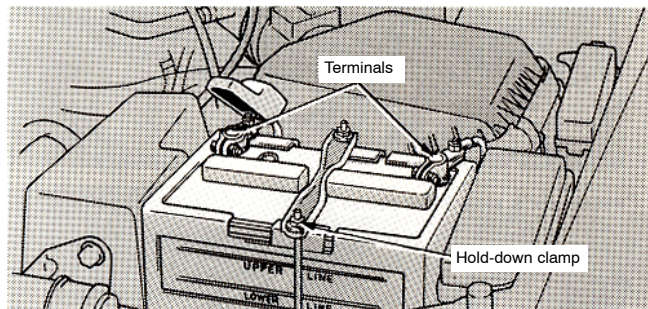
The electrolyte contains poisonous and corrosive sulfuric acid.

- 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 traveling 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.

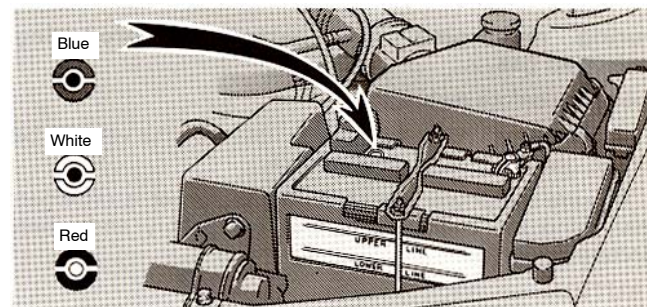


1. Check the battery for corroded or loose connections, cracks, or loose hold-down clamps.

- 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 off before performing maintenance.
- Remove the ground cable first and reinstall 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 condition.

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.

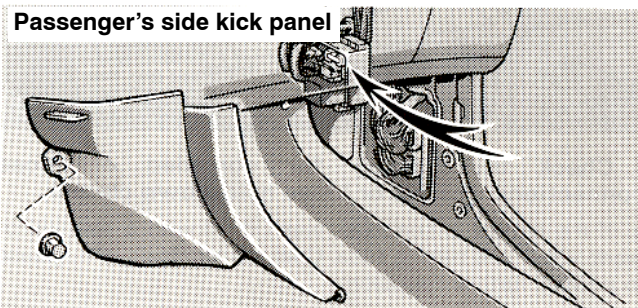
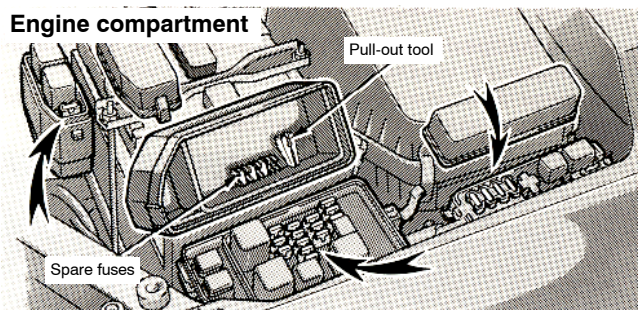
CAUTION:

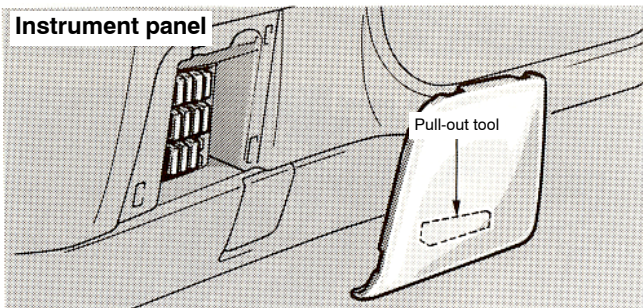
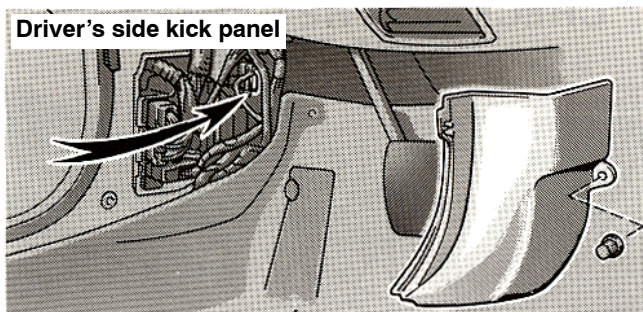
- Always charge the battery in an unconfined area. Do not charge the battery in a garage or closed room where there is not sufficient ventilation.
- Only do a slow charge (5A or less). Charging at a quicker rate is dangerous.

NOTICE:

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

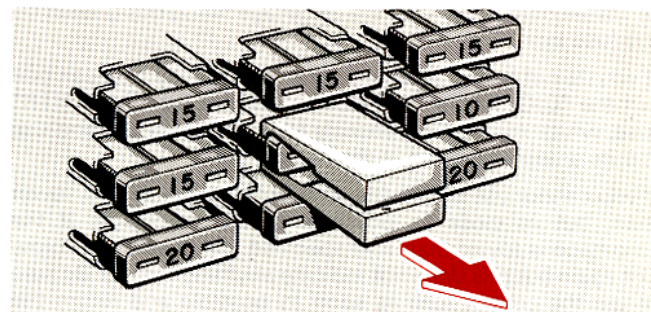
CHECKING AND REPLACING THE BLADE TYPE FUSES



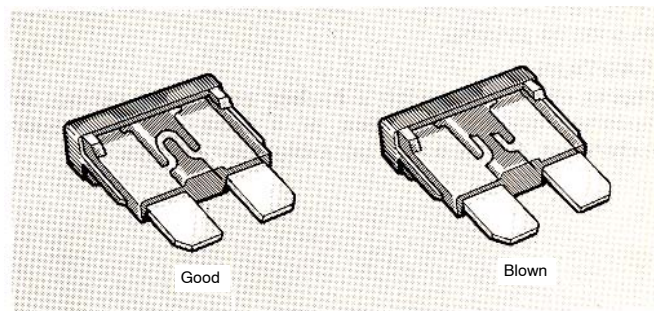


1. Turn the ignition switch off and open the fuse box lid.

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



2. Be sure the inoperative component is off. Pull a 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", "RADIO", "DOME" or "MIR-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.

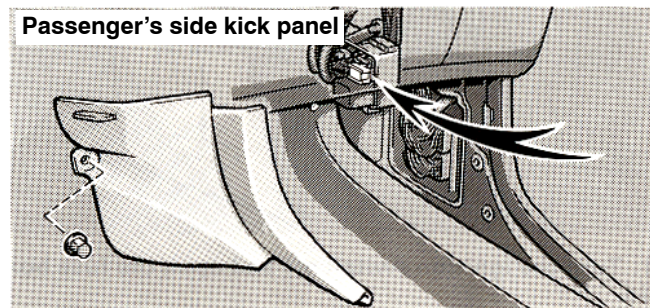
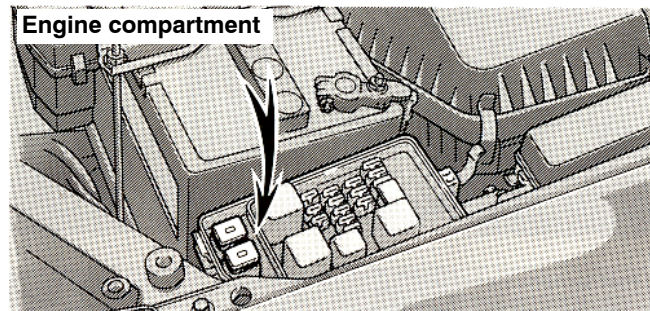
It is a good idea to purchase a set of spare fuses and keep them in your vehicle for emergencies.

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.

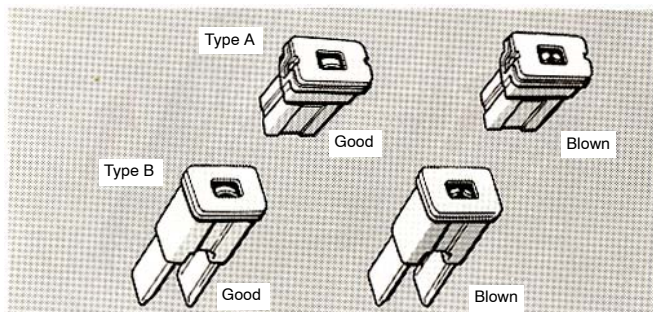
CAUTION:

Never use a fuse with a higher amperage rating, or another object, in place of a fuse. It may cause extensive damage and possibly cause 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.

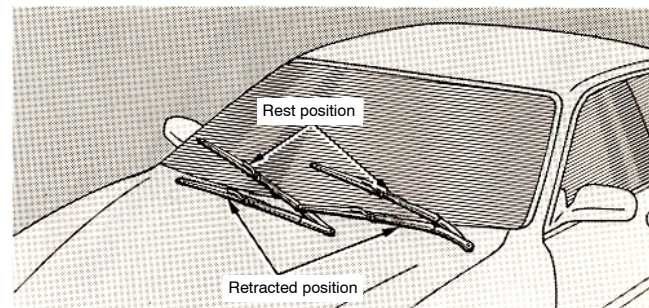
CAUTION:

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 wipers no longer clean adequately, the wiper blades may be worn or cracked, and require replacement.

Before replacement



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

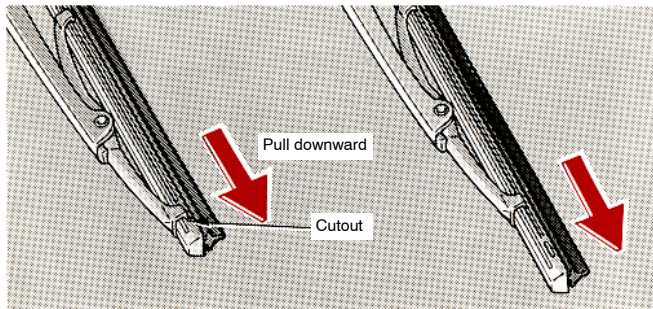
If at the rest position---

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

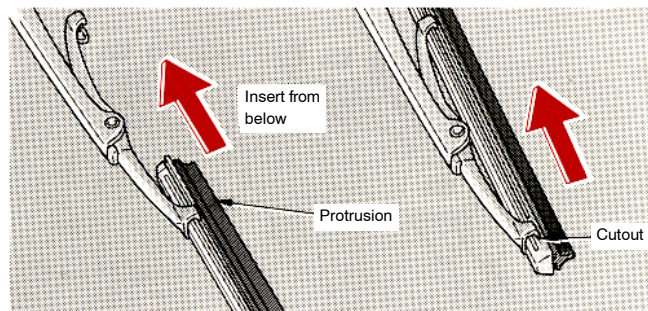
If at the retracted position---

1. Change the position of the wiper blade to the rest position above the hood level. See pages 18 through 20 for instructions on changing the wiper blade position.
2. Swing the wiper arm away from the windshield until it stands up.

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.

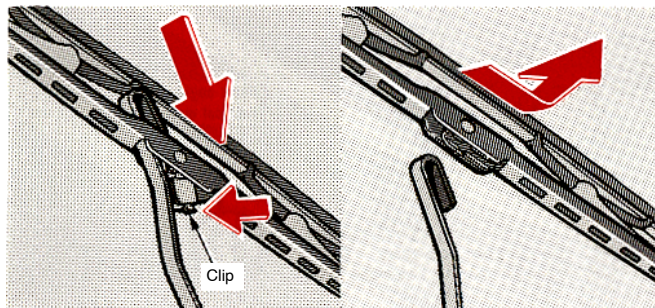


3. To install a new rubber, insert the end with small protrusion from the lower end of the blade frame, and work the rubber along up to the end of the blade frame.
4. Once all of the rubber is in the blade frame, make sure the end of the blade frame is inserted in the cutout of the rubber.

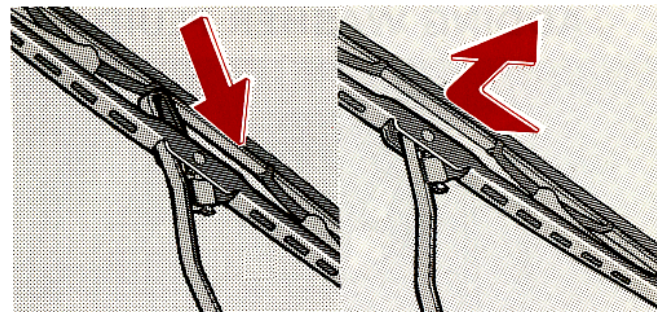
NOTICE:

- Be careful not to scratch the glass surface with the wiper frame.
- Do not replace the wiper blade at the retracted position as it may damage your vehicle's paint.

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.

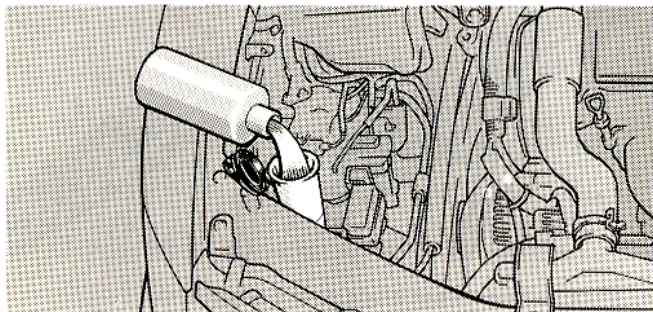


4. Install a new wiper blade to the wiper arm.
5. Slide the wiper blade upward fully until it locks.
6. Return the wiper blade and arm.

NOTICE:

- Be careful not to scratch the glass surface with the wiper frame.
- Do not replace the wiper blade at the retracted position as it may damage your vehicle's paint.

ADDING WASHER FLUID



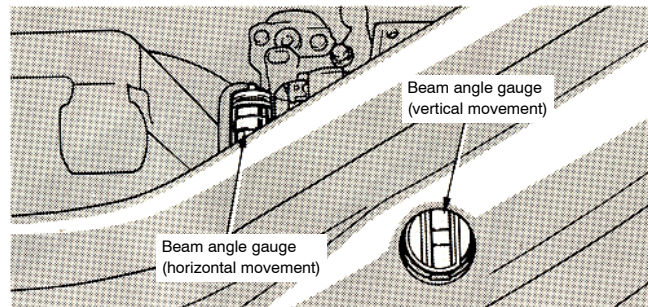
If the washer tank becomes nearly empty, add washer fluid.

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 on how much to mix with water.

NOTICE:

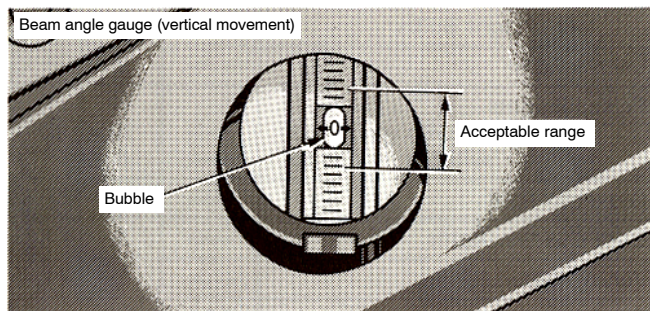
Do not use engine antifreeze or any other substitute because it may damage your vehicle's paint.

CHECKING THE HEADLIGHT AIM



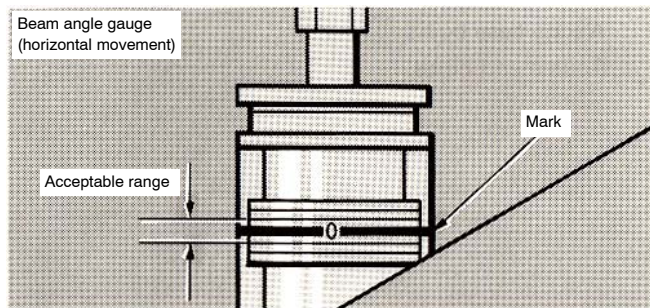
Before checking the headlight aim:

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 two marks to either side of the gauge.



2. Look at the beam angle gauge (horizontal movement). The blue 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 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.

ELECTRICAL COMPONENTS

Light Bulbs	Bulb No.	W	Type
Headlights (low and high beam)	9006	55	A
Headlights (high beam)	9005	65	B
Fog lights	—	55	C
Front turn signal and parking lights	1157 NA	27/8	D
Rear turn signal lights	1156	27	D
Stop and tail lights	1157	27/8	D
Back-up lights	1156	27	D
High mounted stoplight	921	18	E
License plate lights	—	5	E
Rear side marker lights	—	5	E

Light Bulbs	Bulb No.	W	Type
Interior light	—	8	F
Personal lights with moon roof without moon roof	— —	10 8	D
Glovebox light	—	1.2	F
Door courtesy lights	—	3	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

LOCATION OF LIGHTS

