

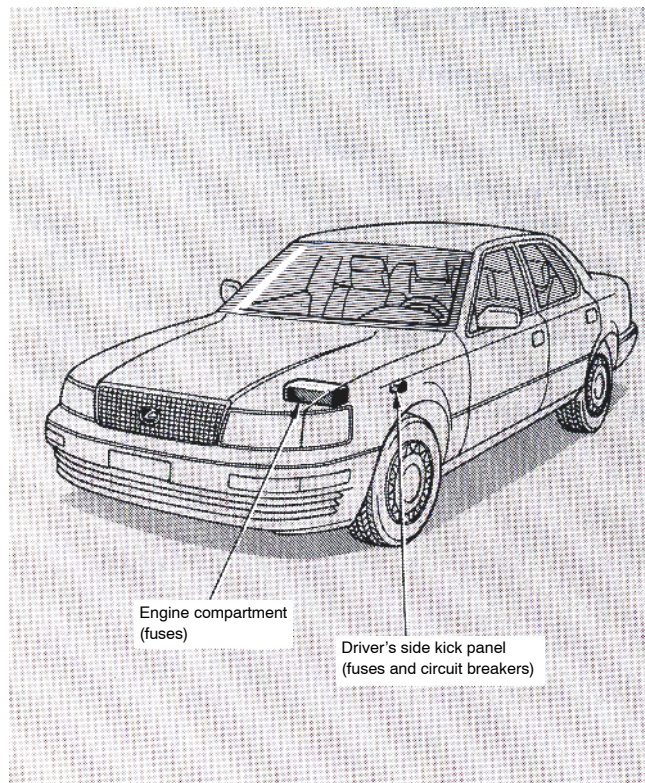
SERVICE PROCEDURES AND SPECIFICATIONS

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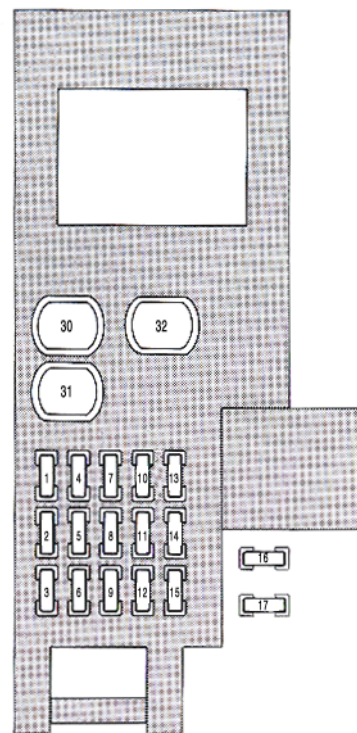
SPECIFICATIONS

- FUSES AND CIRCUIT BREAKER LOCATIONS

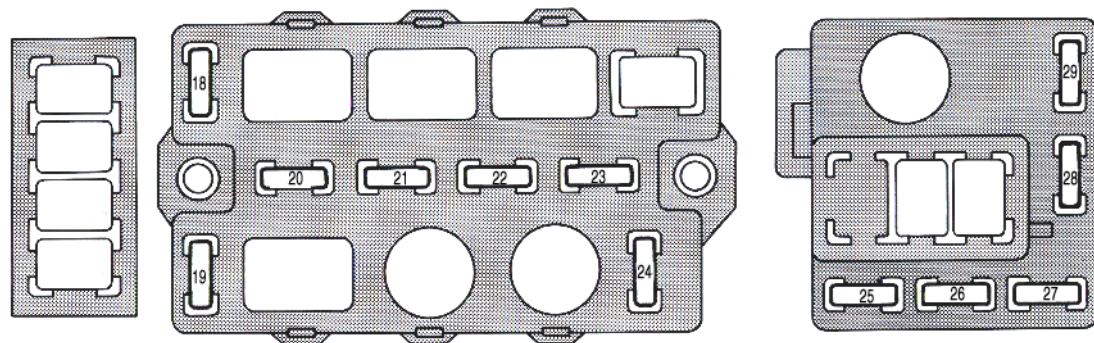


- FUSES AND CIRCUIT BREAKERS

Driver's side kick panel



Engine compartment



ELECTRICAL COMPONENTS

NO.	FUSE	AMPERE	CIRCUIT
1	STOP	25	Stop lights, cruise control system cancel device
2	FOG	15	Fog lights
3	ECU-B	15	SRS, Lexus ride control system, anti-lock brake system, cruise control system
4	RADIO	7.5	Radio, cassette tape player, compact disc player, power antenna, power rear view mirrors, air conditioning system
5	CIG	15	Cigarette lighter, theft deterrent system, shift lock system, SRS
6	MIR-HTR	10	Outside rear view mirror defogger
7	GAUGE	10	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, power windows, seat belt warning lights
8	ENGINE	7.5	Charging system

NO.	FUSE	AMPERE	CIRCUIT
9	ECU-IG	15	Cruise control system, power steering control system, shift lock system, anti-lock brake system, power door lock system, Lexus ride control system, automatic light control system
10	TURN	7.5	Turn signal lights
11	HEATER	15	Air conditioning system, rear window defogger, electronic cooling fan system
12	WIP	20	Windshield wipers and washer, headlight cleaner
13	TAIL	15	Tail lights, parking lights, side marker lights, license plate lights
14	PANEL	7.5	Instrument panel lights, air conditioning control system, clock, instrument panel lights, glovebox light for light system
15	IGN	10	Discharge warning light, sequential multiport fuel injection system, electronic cooling fan system, SRS
16	ST	7.5	Starting system, cruise control system, multiport fuel injection system, instrument panel lights
17	TRAC	15	Traction control system

NO.	FUSE	AMPERE	CIRCUIT
18	RADIO NO. 1	20	Radio, cassette tape player, compact disc player, power antenna
19	HAZ-HORN	15	Emergency flashers, horns
20	DOME	10	Interior light, personal lights, door courtesy lights, ignition switch light, open door warning light, trunk room light, electric moon roof system, radio cassette tape player, compact disc player, preset steering system, seat belt warning 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, automatic light control system
21	TEL	15	Telephone
22	EFI	20	Multiport fuel injection system
23	SEAT HTR	20	Seat heater
24	AIRSUS	20	Lexus ride control system, height control system
25	DRL	10	Vehicles sold in Canada Daytime Running Light System
26	HEAD LH	15	Vehicles sold in U.S.A. Left-hand headlight
	HEAD LH-LWR	10	Vehicles sold in Canada Left-hand headlight (low beam)

NO.	FUSE	AMPERE	CIRCUIT
27	HEAD RH	15	Vehicles sold in U.S.A. Right-hand headlight
	HEAD RH-LWR	10	Vehicles sold in Canada Right hand headlight (low beam)
28	HEAD LH-UPR	15	Vehicles sold in Canada Left-hand headlight (high beam)
29	HEAD RH-UPR	15	Vehicles sold in Canada Right-hand headlight (high beam)

NO.	CIRCUIT BREAKER	AMPERE	CIRCUIT
30	P / W	30	Preset steering, power shoulder anchor, electric moon roof, power windows
31	DOOR	30	Theft deterrent system, seat control system, fuel opener control system
32	DEFOG	40	Rear window defogger

CHECKING BATTERY CONDITION AND FLUID LEVEL

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.

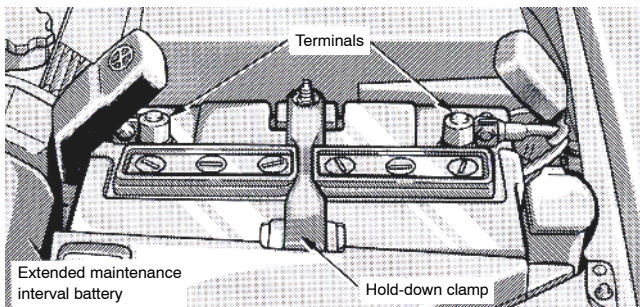
The electrolyte contains poisonous and corrosive sulfuric acid.

- 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.

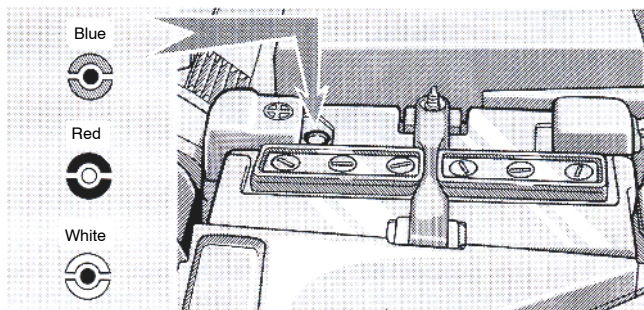


1. Check the battery for corroded or loose connections, cracks, or loose hold-down clamps.

- 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.

**2. Check the indicator as shown.**

BLUE – Good condition.

RED – Add distilled water.

WHITE – Charging necessary.

If the indicator is red, check the electrolyte level as shown.

- When checking the electrolyte level, remove the vent plugs and look at all six cells, not just one or two.
- Replenish the battery with distilled water.
- After replenishing, be sure to securely retighten the vent plugs.

NOTICE:

- Do not overfill the battery or the electrolyte may squirt out of the battery during periods of heavy charging, causing corrosion or damage.
- In order to maintain full engine performance and to make sure the cover fits the battery, when replacing the battery use an Exide Group 27F CCA580A battery or equivalent performance battery.
- Use a cover on the battery for longer life.

BATTERY RECHARGING PRECAUTIONS

During recharging, the battery is producing hydrogen gas.

Therefore, before recharging:

1. Remove the vent plugs.
2. If recharging with the battery installed on the vehicle, be sure to disconnect the ground cable.
3. Be sure the power switch on the recharger is off when connecting the charger cables to the battery and when disconnecting them.

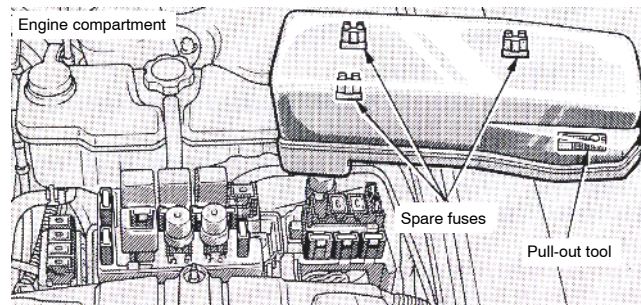
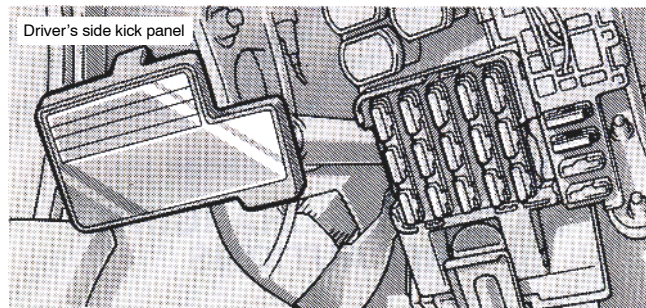
CAUTION:

Always charge the battery in an unconfined area. Do not charge the battery in a garage or closed room where there is insufficient ventilation.

NOTICE:

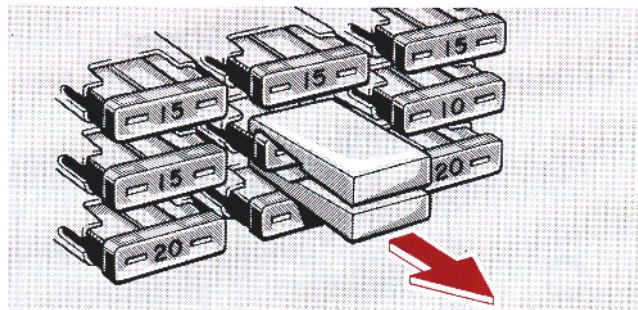
Never recharge the battery while the engine is running. Also, be sure all accessories are turned off.

CHECKING AND REPLACING THE BLADE TYPE FUSES



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

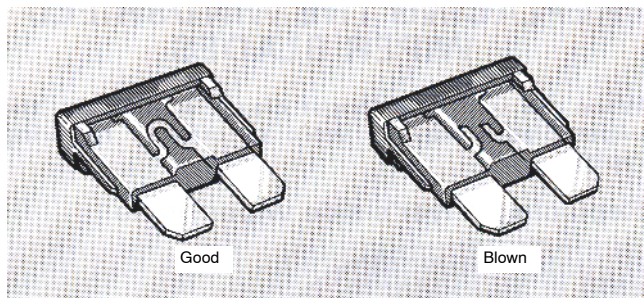
Determine which fuse may be causing the problem. The lid of the fuse box shows the name of the circuit for each fuse.



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”, “DOME” or “HEATER” 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.

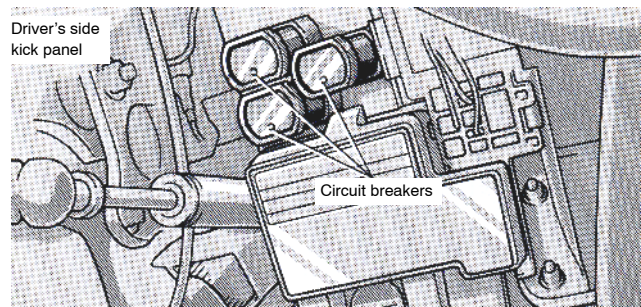
It is a good idea to purchase a set of spare fuses and keep them in your vehicle for emergencies.

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 CIRCUIT BREAKERS

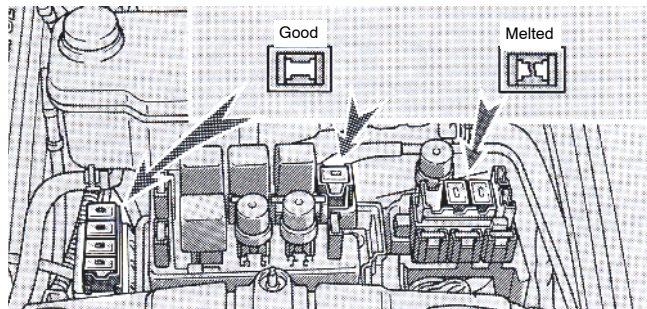


In the event the defogger, air conditioning, power windows, power door locks, or moon roof does not operate, check its circuit breaker (C-B).

To reset the circuit breaker, first turn the ignition switch off and carefully insert a thin object, such as a toothpick, needle or safety pin, into the hole in the circuit breaker and push until you hear a click. The component should now operate. This may be done without removing the circuit breaker.

If the circuit breaker immediately goes off again or the component does not operate, turn off the component switch and have the electrical system checked by your Lexus dealer as soon as possible.

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.

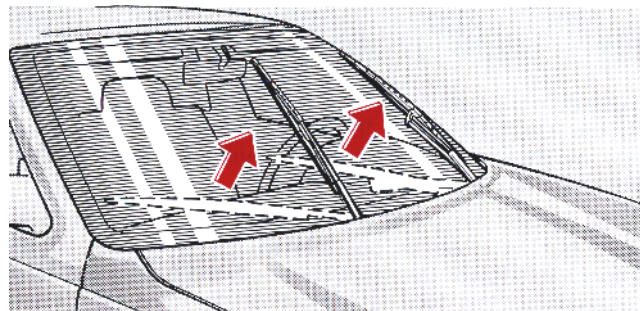
CAUTION:

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.

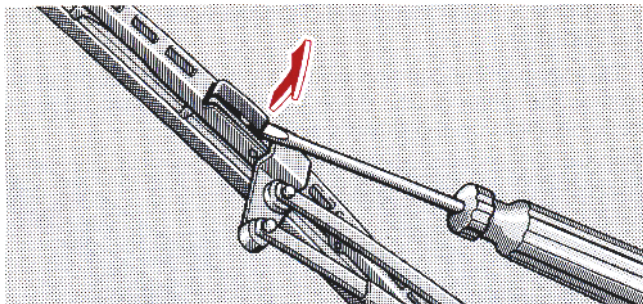
REPLACING THE WINDSHIELD WIPER BLADES

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

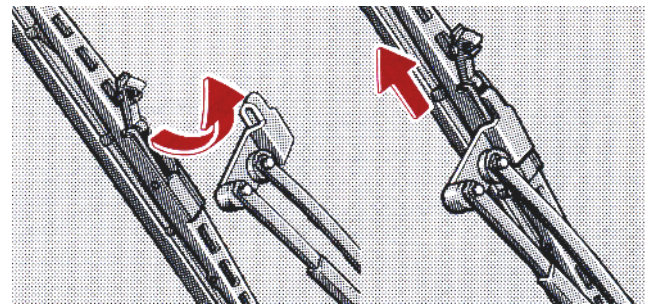
Replacing driver's side wiper blade



1. Turn the ignition switch on. Turn the wiper switch to the "LO" position.
2. Quickly turn the ignition switch to the "ACC" position as soon as the wiper on the driver's side comes to the edge of the windshield on the driver's side.

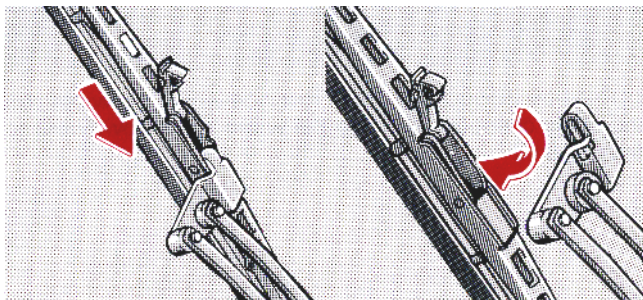


3. Use a screwdriver to release the lock joining the wiper arm and blade.



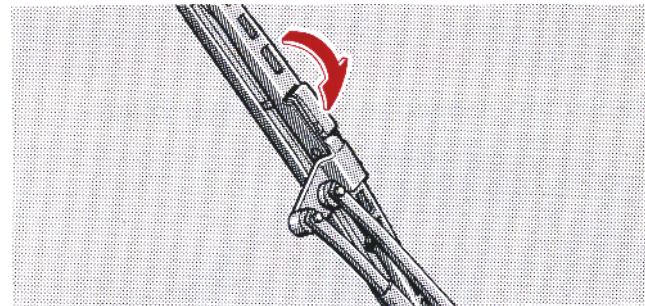
6. Install a new wiper blade to the wiper arm

7. Slide the wiper blade upward fully to the wiper arm

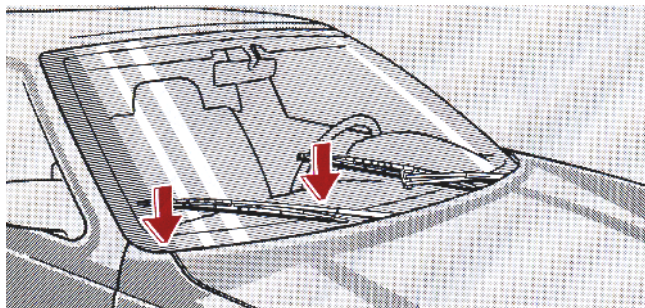


4. Slide the wiper blade downward to separate it from the wiper arm.

5. Remove the wiper blade



8. Firmly close the lock joining the wiper arm and blade.

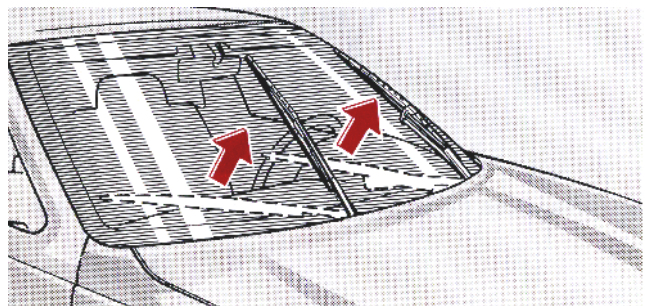


9. Lower the wiper blade down with your hand. Return the wiper blades to set position.

NOTICE:

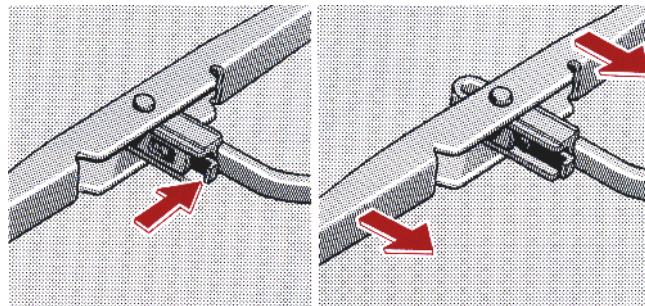
Be careful not to scratch the glass surface with the wiper frame.

Replacing passenger side wiper blade

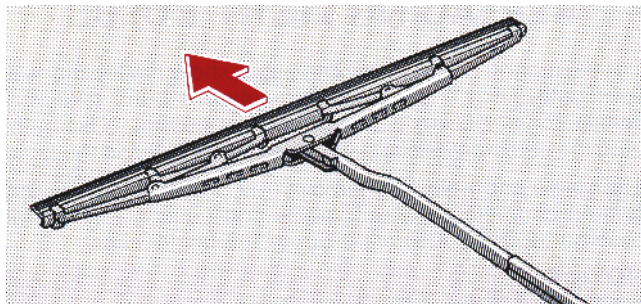


1. Turn the ignition switch on. Turn the wiper switch to the "LO" position.

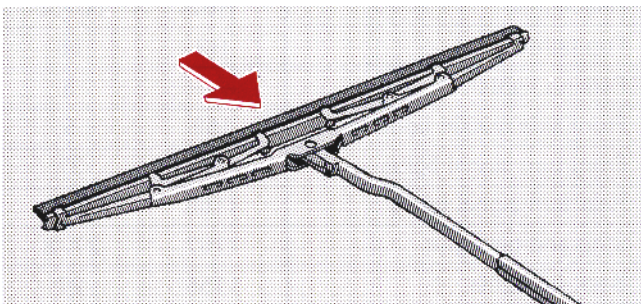
2. Quickly turn the ignition switch to the "ACC" position as soon as the wiper on the driver's side comes to the edge of the windshield on the driver's side.



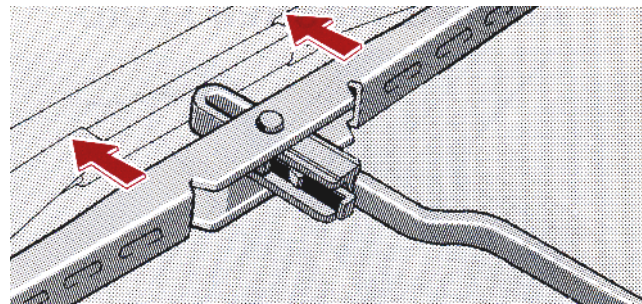
3. Press on the lock pin at the rear side where the wiper arm and blade connect, and slide the wiper blade downward to disconnect it.



4. Place the wiper blade square to the wiper arm and then pull the wiper blade straight off.



5. Place the new wiper blade square to the wiper arm and push it onto the wiper arm.

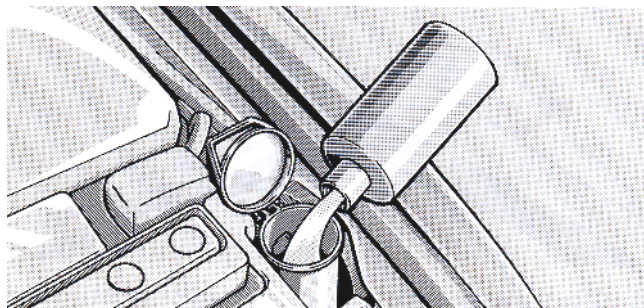


6. Slide the wiper blade back up until the lock clicks in place.

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.

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.

Light Bulbs	Bulb No.	W
Headlights	HB2	60/55
Fog lights	H3	55
Parking lights**	—	5
Front side marker lights**	159	5
Front turn signal lights	1156	27
Rear turn signal lights	1156	27
Stop and tail lights	1157	27/8
Back-up lights	1156	27
High mounted stoplight**	921	18
License plate lights**	—	5
Interior light*	—	10

Light Bulbs	Bulb No.	W
Personal lights	—	8
Glovebox light**	—	1.2
Door courtesy lights**	194	3.8
Footlights**	—	1.4
Vanity lights*	—	3
Trunk room light**	194	3.8

LIGHT LOCATION

