

# THE MAZDA WAY

AN INTENSE COMMITMENT TO YOUR TOTAL SATISFACTION

MAZDA  
RX-7

OWNER'S  
MANUAL

**8967** Part No.8967-EA-89H  
(9999-95-015C-90)

**mazda**

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**1990**

# Mazda RX-7

67UG 0010E

## Important Instructions for Owner and Driver

## Operation, Maintenance, and Service

The specifications and descriptions in this manual are accurate at the time of printing. Because improvement is a constant goal at Mazda, we reserve the right to make changes in specifications at any time without notice and without incurring any obligation. Please note that this manual applies to all models in this series and explains all equipment, including options. You may therefore find explanations for equipment not installed on your vehicle.

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## **A Word to Mazda Owners....**

We urge you to read this manual carefully and follow its recommendations to help ensure the enjoyable and trouble-free operation of your new Mazda. Please keep it in the glove box as a permanent and convenient reference.

When service is necessary, remember that your Authorized Mazda Dealer knows your vehicle best and is vitally interested in your complete satisfaction. He is ready to help you with all maintenance and service needs.

Thank you for choosing a Mazda. We assure you of our continuing interest in your motor-ing pleasure and satisfaction.

**Mazda Motor Corporation**  
HIROSHIMA, JAPAN

67U0-0040E

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67U0-0030E

**NOTE**

The number above each explanation in this manual (e.g. 67U2-0170E) is not directly connected with the contents of this manual.

# 1. IMPORTANT PRELIMINARY INFORMATION

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PAYING ATTENTION TO MAINTENANCE WILL HELP ENSURE YOUR VEHICLE'S SATISFACTORY PERFORMANCE.

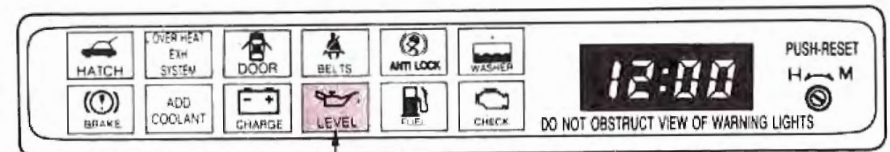
67U1-0020E

Check the engine oil level.  
Refer to ENGINE OIL LEVEL in Section 6.

## NOTE

It is normal for your rotary engine to consume a slight amount of oil, since the gas seals are lubricated by metering oil into the combustion chambers. The oil consumption rate varies depending on the driving conditions (e.g. hard driving, mountain driving, on a highway, in a city, in heavy traffic, and in varying traffic). Because of these variables, it is possible that the oil consumption rate might be as high as 500 miles/qt.

Check  
Oil Level



OIL LEVEL WARNING LAMP

67U1-0030E

Check the coolant level.  
Refer to ENGINE COOLANT LEVEL in Section 6.

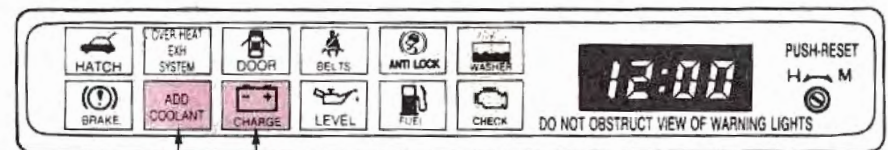


Do not remove the thermostat.

If removed, overheating will result.

67U1-0040E

Check the fan belt tension and condition.  
Refer to CHECKING BELT TENSION in Section 6.



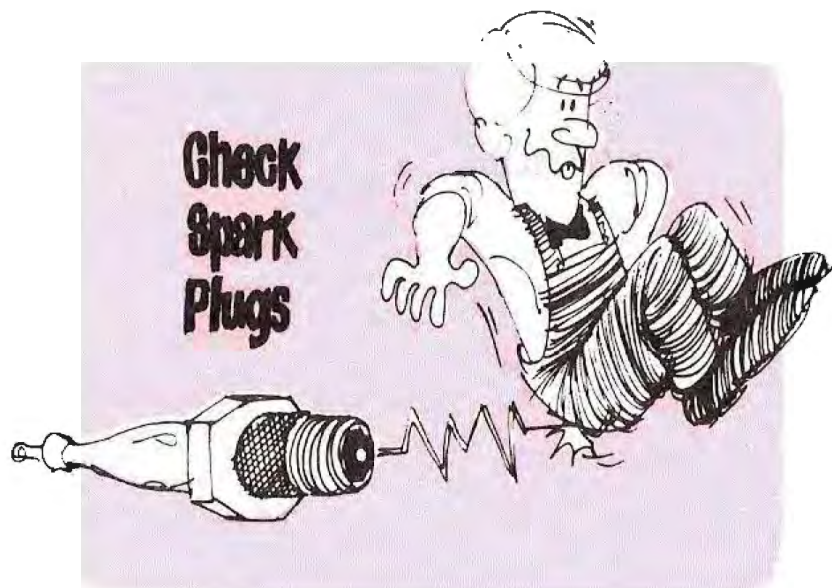
COOLANT LEVEL  
WARNING LAMP

ALTERNATOR  
WARNING LAMP

67U1 0050E

Use specified spark plugs.

Refer to Recommended spark plugs in Section 6.



Use a genuine Mazda air cleaner element or its equivalent.  
Refer to AIR CLEANER in Section 6.

67U1 0060E

## MAINTENANCE AND WARRANTIES

Your new Mazda rotary engine is a unique product. Protect its high performance by following both the operating instructions and the maintenance instructions set forth in this owner's manual.

Your rotary engine is covered by an excellent warranty. Read and understand the written warranty completely and comply with the recommended maintenance schedules.

Between regular servicing periods, pay careful attention to oil and coolant levels and to proper fan belt tension.

While operating your Mazda, observe your instrument panel gauges and indicator lights. Compliance with the above instructions is essential for the prevention of damage to your high-performance Mazda engine.

If you do operate your Mazda when the engine is overheated or oil or coolant is low, serious damage to your engine may result.

In the event of any unusual operating conditions, such as overheating, you should stop your vehicle and promptly contact your nearest Authorized Mazda Service facility (or other qualified maintenance establishment.).

Thank you.

## FUEL REQUIREMENTS

Your new Mazda is designed to obtain maximum performance with UNLEADED GASOLINE with an octane rating (anti-knock index) of 87 or higher (average of Research Octane Number and Motor Octane Number). Octane Rating is required to be posted on the pumps of gas stations by federal law in the United States.

Be aware that use of fuel that has a lower octane rating than required by your vehicle could cause the emission control system to lose its effectiveness and could cause engine knock or serious engine damage.

Unleaded gasoline will minimize exhaust emissions and spark plug fouling.

### CAUTION

**NEVER USE LEADED GASOLINE.** Never add any fuel system cleaning agents to the fuel tank other than Mazda specified or equivalent. (Consult your Authorized Mazda Dealer for details.) Use of leaded gasoline is detrimental to the catalytic converter.

Leaded gasoline will damage the oxygen sensor (if equipped) and affect emission control.

Gasohol, a mixture of gasoline and ethanol (also known as grain alcohol), and gasoline or gasohol containing methanol (also known as wood alcohol) are being marketed in various places in the country along with or instead of leaded or unleaded gasoline.

Do not use gasohol containing more than 10% ethanol, or gasoline or gasohol containing any methanol, because the use of such fuel may cause problems in driveability and damage to the fuel system.

Discontinue using gasohol if driveability problems occur.

Damage or driveability problems on your Mazda resulting from the use of

- 1) gasohol containing more than 10% ethanol;
- 2) gasoline or gasohol containing methanol; or
- 3) leaded gasoline or leaded gasohol

may not be covered by the manufacturer's warranty applicable to your Mazda.

## EMISSION CONTROL SYSTEM

Any modification to the original-equipment emission control systems prior to first sale and registration of a new vehicle is subject to penalties under Federal law in the United States. Any such modifications made thereafter may also be subject to penalties in some states.

## MOBILE TWO-WAY RADIO SYSTEM

If a mobile two-way radio system is installed improperly, or if a wrong type is used, the fuel injection system, the cruise control system and other systems may be affected. To avoid any damage to your vehicle, be sure to check with an Authorized Mazda Dealer for proper installation of a mobile two-way radio.

## WARRANTIES FOR YOUR MAZDA VEHICLE

- New Vehicle 36 Month/50,000 Mile Limited Warranty
- Anti-Perforation Limited Warranty
- Emission Control System Warranty
- California Emission Control System Warranty (if applicable)
- Emission Performance Warranty
- Replacement Parts and Accessories Limited Warranty
- Tire Warranty

### NOTE

Detailed warranty information is provided with your Mazda vehicle.

## ENGINE EXHAUST GAS CAUTION (CARBON MONOXIDE)

Engine exhaust gases contain carbon monoxide. Though colorless and odorless, it is dangerous, even lethal, if inhaled.

- Carbon monoxide is colorless and odorless, but can be present with all other exhaust fumes. Therefore, if you ever smell exhaust fumes of any kind inside your vehicle, have it inspected immediately by your dealer and have the condition corrected. Do not drive with exhaust fumes present. If it is necessary to drive under such conditions, do so only with all windows fully open.
- Do not operate the engine in confined or closed areas (such as garages) any more than is needed to move vehicle in or out of the area.
- When the vehicle is stopped in an unconfined area with the engine running for more than a short length of time, adjust the heating or cooling system to draw outside air into the vehicle.
- Never sit in a parked or stopped vehicle for any extended amount of time with the engine running.

Driving with the hatch lid open is not recommended. Under some conditions, exhaust gases may be drawn into the car. If the hatchback lid must remain open for some reason while moving, follow these precautions:

- Close all windows.
- Adjust the heating or cooling system to force outside air into the car and set the fan to high speed.

## OPERATING PRECAUTIONS FOR CATALYTIC CONVERTER

Your vehicle is equipped with a catalytic converter for exhaust emission purposes.

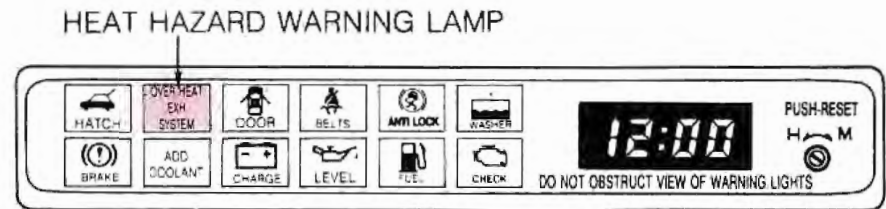
The following precautions must be observed:

1. UNLEADED FUEL only must be used.
2. Do not park the vehicle over or near flammable objects such as dry grass. Under certain conditions, these materials could be ignited by a hot exhaust system.
3. Do not operate the vehicle when there are signs of engine malfunction, such as engine misfire or other noticeable loss of performance.
4. Do not misuse or abuse the engine. Examples of misuse are, coasting with ignition off, going down steep grades in gear with ignition off.
5. Do not operate engine at high idle speed for extended periods (five minutes or more).
6. Do not allow the fuel tank to become empty.
7. Do not modify or tamper with any part of the engine or emission control system. All inspections and adjustments must be made by a qualified technician.

Failure to observe the above precautions could result in damages to the catalytic converter and your vehicle.

### Heat Hazard Warning Lamp

If the catalytic converter should begin to overheat, the heat hazard warning lamp will come on.



What to do:

1. Reduce speed, park your vehicle in a safe spot where there are no flammable materials and turn the engine off. Wait five minutes or more.
2. Check the spark plug wire connections. If any of them are disconnected, reconnect them properly (see page 6-24).
3. If the spark plug wires are properly connected, have your Authorized Mazda Dealer locate and correct the trouble as soon as possible. Park your vehicle until the heat hazard warning lamp goes out and then drive your vehicle to a dealer at slow speeds.

This warning lamp also comes on when the ignition switch is turned on (to check bulb operation), and should go out after the engine has been started.

## CUSTOMER ASSISTANCE

Your complete and permanent satisfaction is of primary concern to Mazda. All Authorized Mazda Dealers have the knowledge and tools to keep your Mazda in top condition. If you have any complaints or questions regarding the service of your Mazda, we recommend you take the following steps:

### Step one

Discuss the matter with your local Mazda Dealer.

### Step two

If you feel that you still require assistance or have any questions, contact the Customer Relations Department at your nearest Mazda distributor (listed on page 1-8, 1-9) and provide the distributor with the following information:

- |                              |                   |
|------------------------------|-------------------|
| 1. Year and model of vehicle | 2. Chassis Number |
| 3. Purchase date             | 4. Mileage        |
| 5. Your dealer's name        | 6. Your question  |

## SERVICE LITERATURE

Genuine Mazda service literature is available for owners who wish to do some of their own maintenance and repair.

If you wish to obtain original factory-authorized service literature for your Mazda, please contact your Authorized Mazda Dealer.

## OPERATING YOUR VEHICLE OUTSIDE THE U.S.

Government regulations in the United States require that automobiles meet specific emission regulations and safety standards. Therefore, vehicles built for the U.S. differ from vehicles sold in other countries. This may prevent you from registering your Mazda in another country and will require you to be aware of certain problems that may occur in operating your Mazda outside the U.S.

If you plan to register your Mazda in another country, you should verify in advance that your vehicle can be registered without problems under that country's regulations.

Please also note that your Mazda may experience some of the following problems if operated outside the U.S.:

1. Local fuel may have a considerably lower octane rating than in the U.S. Such fuel or other improper fuel may cause engine damage.
2. Service may be inadequate due to lack of proper service facilities, tools, or testing equipment.
3. Replacement parts for your Mazda may not be readily available.

Mazda cannot be responsible for mechanical damage that may result because of improper fuel, service, or parts availability. Therefore, we recommend that you do not operate your Mazda outside the U.S. Any damage or problem which results from such operation shall be considered to have arisen from misuse of the vehicle.

## MAZDA DISTRIBUTORS/REGIONS

### U.S. MAINLAND

#### **Mazda Motor of America, Inc.**

Pacific Region

9451 Toledo Way, Irvine, CA. 92718-1805

TEL: (714) 380-7705

Arizona, New Mexico, California, Utah, Colorado,  
Wyoming, Nevada

#### **Mazda Motor of America, Inc.**

Gulf Region

10445 Corporate Drive, Sugar Land, TX. 77478

TEL: (713) 240-5800

Arkansas, Louisiana, Mississippi, Oklahoma, Texas, Iowa,  
Kansas, Kentucky, Missouri, Nebraska, Tennessee

#### **Mazda Motor of America, Inc.**

Northwest Region

8621 S. 180th Street, Kent, WA. 98032-1031

TEL: (206) 251-5920

Alaska, Idaho, Minnesota, Montana, Oregon, N. Dakota,  
S. Dakota, Washington

#### **Mazda Distributors Great Lakes**

P.O.Box 2008—zip 49501, 618 Kenmoor Ave. S. E.,  
Grand Rapids, MI. 49506

TEL: (616) 949-7570

Illinois, Indiana, Michigan, Ohio, Wisconsin

#### **Mazda Motor of America, Inc.**

Southeast Region

P.O.Box 19045, 8313 Baycenter Road, Jacksonville,

FL. 32245-9045

TEL: (904) 731-4010

Alabama, Florida, Georgia, N. Carolina, S. Carolina  
Virginia(Southern Area), West Virginia(Southern Area)

#### **Mazda Motor of America, Inc.**

Northeast Region

P.O.Box 6498, 60 Distribution Blvd., Edison,

NJ. 08818-6498

TEL: (201) 287-1664

Connecticut, Delaware, Maine, Maryland, Massachusetts,  
New Hampshire, New Jersey, New York, Pennsylvania,  
Rhode Island, Vermont, Virginia(Northern Area),  
Washington D.C., West Virginia(Northern Area)

### HAWAII

#### **Mazda Motor of America, Inc.**

Northwest Region

8621 S. 180th Street, Kent, WA. 98032-1031

TEL: (206) 251-5920

## **CANADA**

### **Mazda Canada Inc.**

821 Brock Road South  
Pickering, Ontario L1W 3L6 Canada  
TEL: (416) 831-4222

## **PUERTO RICO**

### **Plaza Motors Corp. (Mazda de Puerto Rico)**

G.P.O. Box 2722, San Juan, Puerto Rico 00936  
TEL: (809) 792-4040

## **GUAM**

### **Pacific Motors Corp.**

P.O. Box AJ, Agana, Guam 96910  
TEL: (671) 477-7881

## **SAIPAN**

### **Pacific International Marianas, Inc.**

#### **(d.b.a. Midway Motors)**

P.O. Box 887 Saipan, C.N.M.I. 96950  
TEL: (671) 723-6826

## 2. BEFORE DRIVING YOUR VEHICLE

67U2-0010E

### BEFORE ENTERING VEHICLE

- Be sure that all windows, outside rearview mirror(s), and outside lights are clean.
- Check tire pressures.
- Be sure the area to the rear is clear if you intend to back up.
- Check under the vehicle for any sign of leaks.

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### BEFORE DRIVING OFF

- Adjust the inside and outside rearview mirrors.
- Position the seat so that all controls are easily reached.
- Fasten seat belts.
- Check operation of warning lights when the ignition switch is turned to the ON position.
- Be sure that all lights work.
- Check all gauges.
- Release the parking brake and make sure the brake warning light goes out.
- For safe operation, be sure you are familiar with your vehicle and its equipment.

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### BREAK-IN PERIOD

By following a few simple precautions for the first 600 miles (1,000 kilometers), you may add to the performance, economy and life of your vehicle.

- Do not race the engine.
- Drive at various speeds without straining the engine.
- Avoid hard stops, except in emergencies. This will allow the brakes to seat properly.
- Avoid full-throttle starts.

97U2-0050E

### Necessary inspections

Fluid levels, such as engine oil, engine coolant, brake and clutch fluid and windshield washer fluid, should be checked daily, weekly, or whenever you refuel, depending on the fluid. Further details are provided in Owner Maintenance Service under Maintenance.

67U2-0050E

### Inspection responsibilities

The owner is responsible for inspecting all driving, braking and backup lights, signaling systems and warning indicator lights frequently. Any malfunction should be corrected promptly.

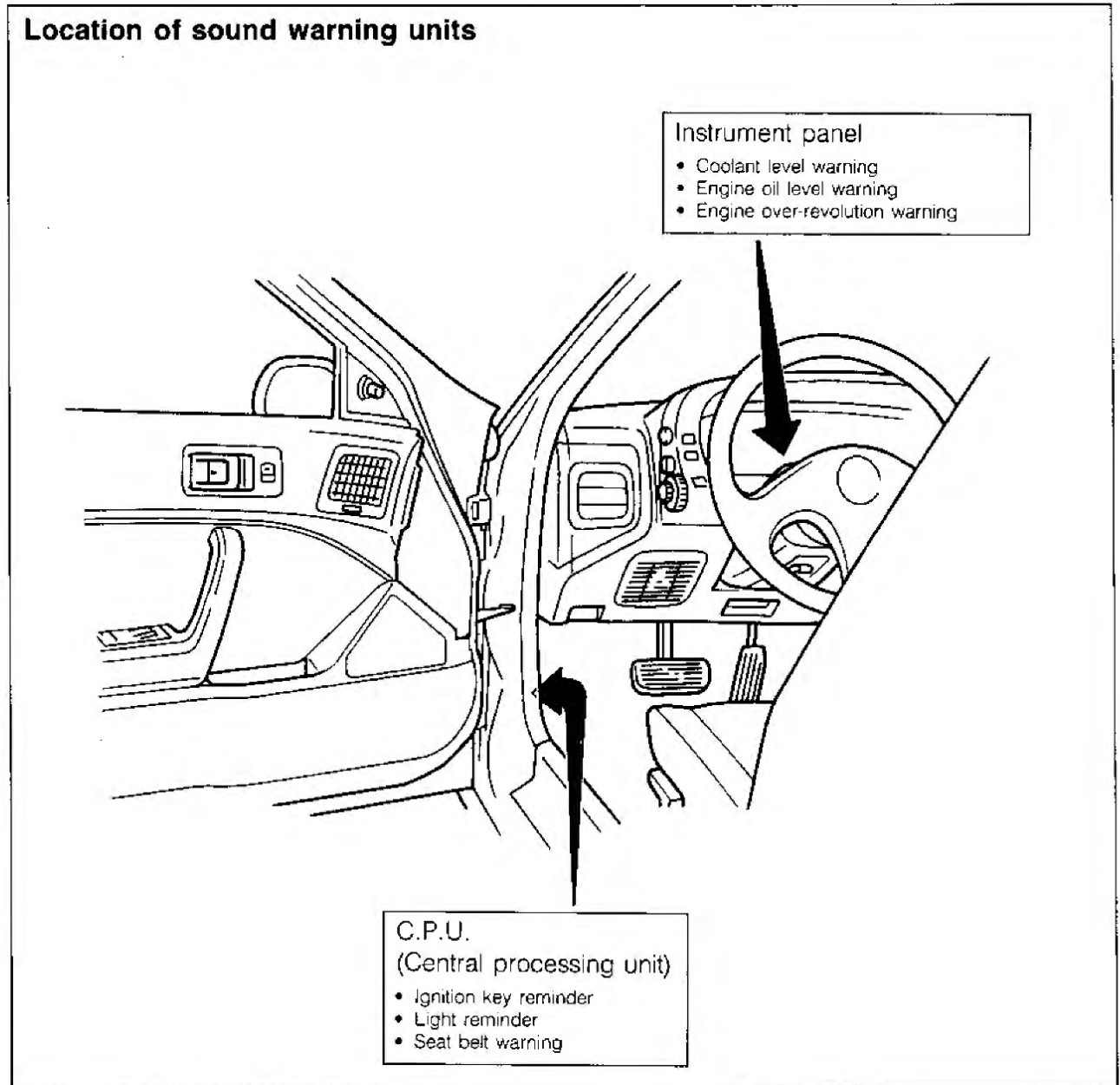
## SOUND WARNING SYSTEM

The warning sounds produced by Mazda's original units warn you of abnormal conditions that may have occurred in your vehicle. Do not forget about them. If you hear these sounds, prompt action should be taken to correct the condition. The warning function of this system is as follows;

1. Ignition key reminder  
(See page 2-5)
2. Lights reminder  
(See page 3-14)
3. Seat belt warning  
(See page 2-21)
4. Engine over-revolution (RED LINE) warning  
(See page 3-23)
5. Coolant level warning  
(See page 3-26)
6. Engine oil level warning  
(See page 3-26)
7. \*Convertible top warning  
(See page 3-63)

\* if equipped

### Location of sound warning units



## KEY

A key code number is stamped on each key.

The key code number should be recorded and kept in a safe place for use in obtaining replacement keys if necessary.

### Operation of each key.

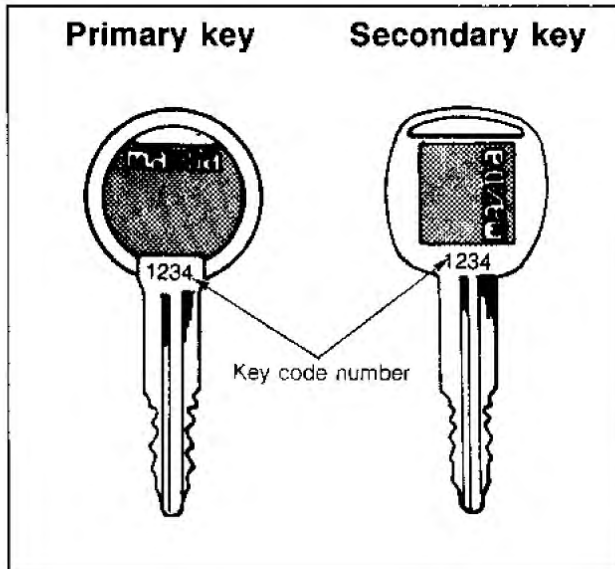
Lock operated \ Key	Primary key	Secondary key
Ignition switch and steering column lock	○	○
Door locks	○	○
Glove box lock	○	×
Storage compartment lock (if equipped)	○	×
Rear glass hatch lock	○	○
Trunklid	○	×

Usage { ○: operate  
x: does not operate

The reason why we provide a secondary key is to safeguard any valuables you may have in the glove box, storage compartment and trunklid.

Should it be necessary to leave your vehicle with a parking attendant, etc, you may still protect your valuables by locking the glove box, storage compartment and trunklid. Leave only the secondary key with the attendant. The secondary key will only operate the door locks, ignition switch and, rear glass hatch. Only you will be able to unlock the glove box, storage compartment and trunklid with your primary key.

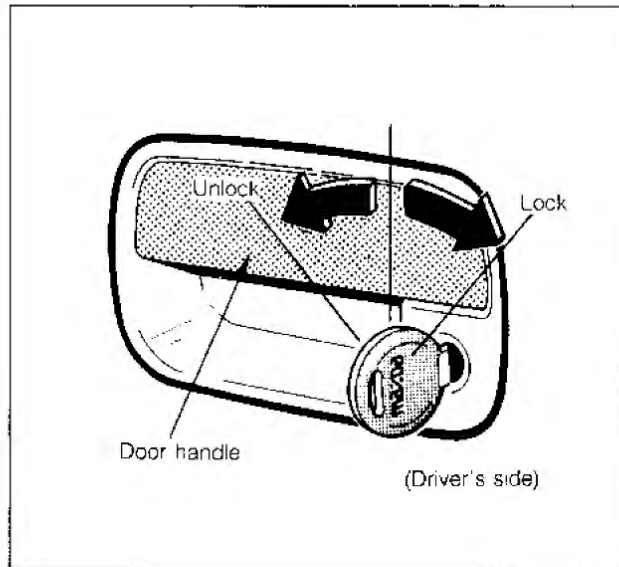
- Glove box lock, see page 3-31.
- Storage compartment lock, see page 3-31.
- Trunklid lock, see page 2-30.



## DOOR LOCKS

### From outside

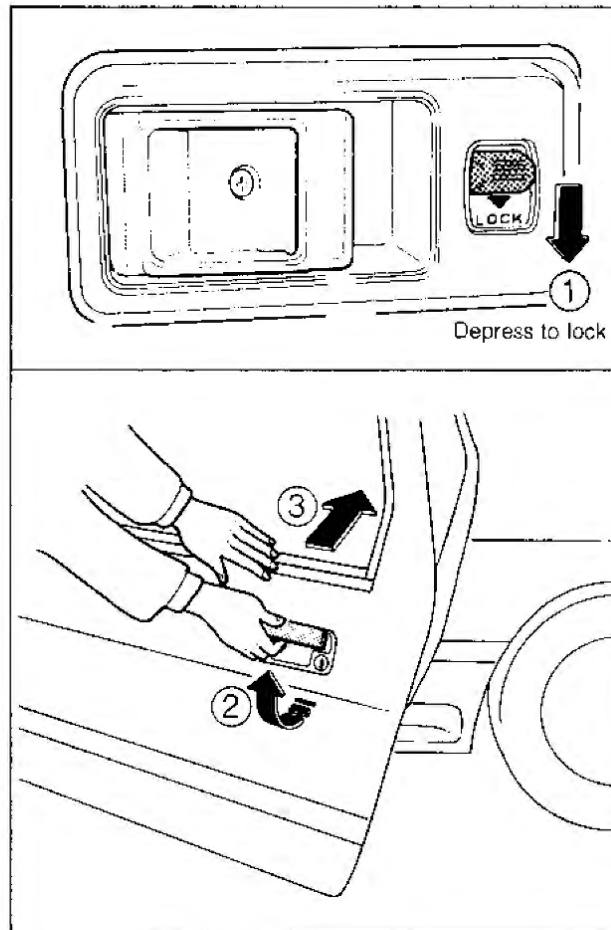
- Either door can be locked or unlocked with the key.
- Once the door is unlocked, it may be opened by simply pulling the door handle upward.



- To lock without the key, depress the inside lock button, then hold the door handle up and close the door.

### CAUTION

Always remove the ignition key and lock all doors when leaving your vehicle unattended.

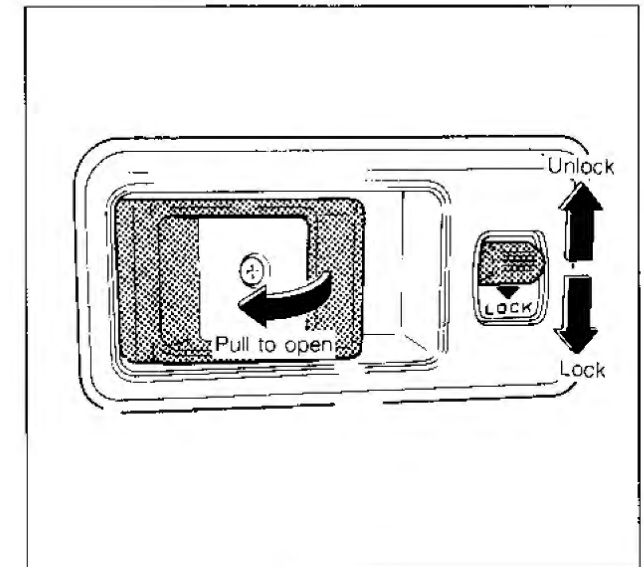


### From inside

- To lock either door, depress the lock button.
- To unlock, pull the lock button up.
- To open, pull the door handle rearward.

### WARNING!

- The doors should always be locked while driving. To help reduce the risk of personal injury in an accident, also prevent unintended opening of the doors and helps keep out intruders.
- Do not leave children or animals in the vehicle.



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### POWER DOOR LOCKS (if equipped)

All doors can be automatically locked or unlocked by depressing or lifting the driver's door lock knob.

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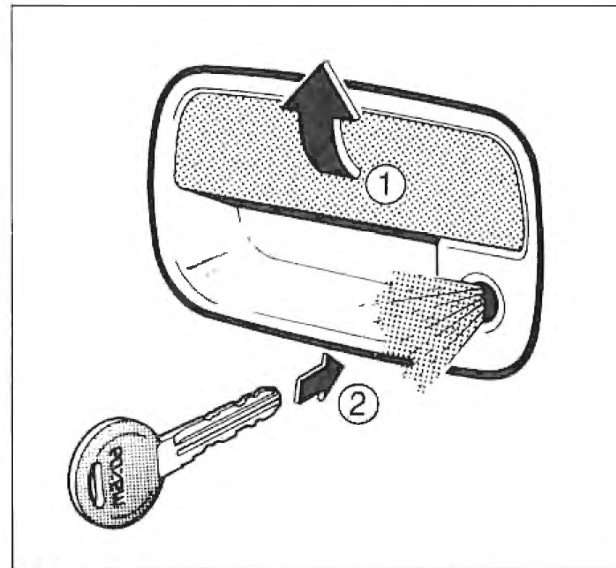
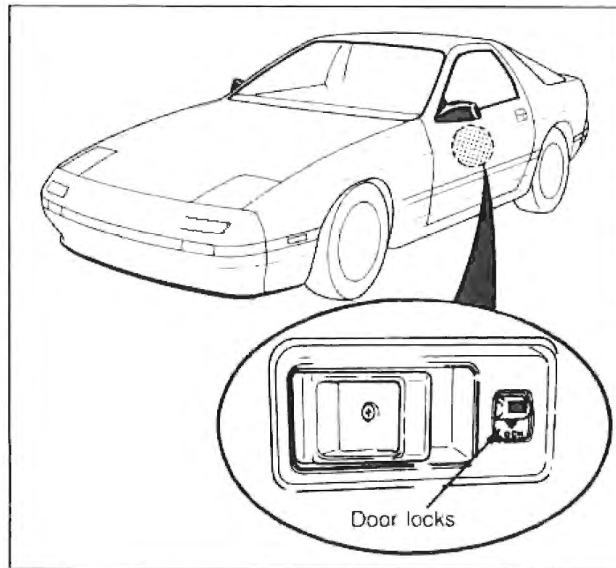
### IGNITION KEY REMINDER

Your Mazda is equipped with an ignition key reminder system. The beep will sound if the key is left in the ignition lock cylinder and the door is opened.

07U2-0100E

### DOOR LOCK CYLINDER ILLUMINATION (driver's door only, if equipped)

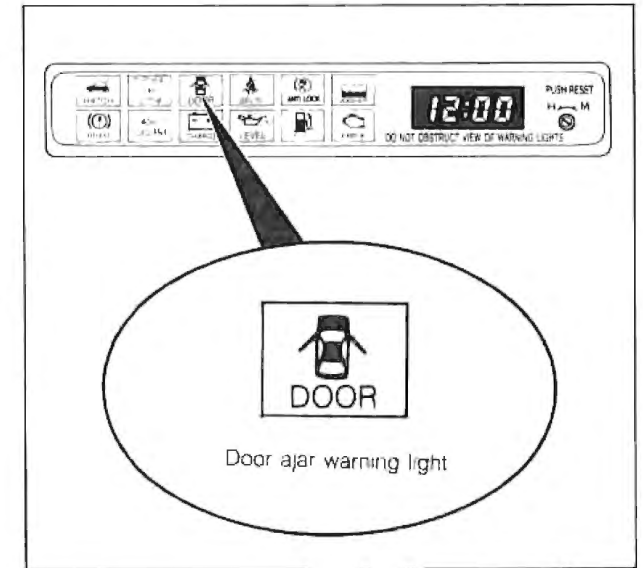
To assist key insertion at night, a lamp inside the door panel illuminates the lock cylinder for approximately 15 seconds after the driver's door outer handle has been lifted.



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### DOOR AJAR WARNING LAMP

This warning lamp comes on when a door is not closed securely while the engine is running.



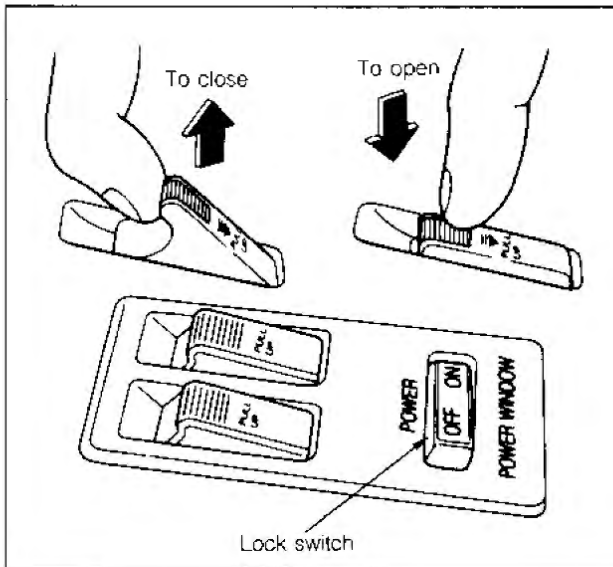
## POWER WINDOWS (if equipped)

The ignition switch must be in the ON position to operate the windows.

To open the window press the switch. To close the window raise the switch. With the window lock switch set in the OFF position, the windows can be operated only by the driver's switches.

### **WARNING!**

- Keep the window lock switch in the OFF position except when a power window is being operated.
- Use caution when closing the windows. Make sure all arms, hands, etc. are safely out of the way.
- Do not allow children to play with the power windows. They may accidentally injure themselves, perhaps seriously.



## **THEFT-DETERRENT SYSTEM (if equipped)**

The Theft-deterrent system is designed to prevent your vehicle or its contents from being stolen when all the doors, hood and hatch/trunklid are locked.

If any attempt is made to forcibly open any of these without using the key, the system causes the horn to sound and the hazard warning lights and headlights to flash. In addition to this the starter becomes inoperable.

### **CAUTION**

This system will not function unless it is armed. Therefore, when you leave your vehicle, be sure all doors are locked, take your key with you, and confirm that the system indicator lamp comes on. (See page 2-8 for details on arming the system)

## **OPERATION**

### **Causes of alarm operation**

The warning alarm is activated by any of the following:

- Forcing open the door or hatch/trunklid.
- Opening the door or hatch/trunklid by releasing the inside door lock button or by operating the remote hatch/trunklid release.
- Opening the hood.

### **Alarm description**

The alarm system operates in the following manner.

- The horn sounds intermittently and the hazard warning lamps and headlights flash.
- The starter is bypassed so the engine cannot be started.
- The alarm continues for four to six minutes and then automatically stops. If the system is triggered again, the lamps and horn will reactivate and the starter will continue to be disabled until the door or hatch/trunklid is unlocked with the key. This can be done with the door open or closed, but with the hatch/trunklid closed only.

## **NOTE**

The Theft-Deterrent System can be turned off (de-armed) by turning the ignition switch to the ON position. However, if the system is in the ALARM phase (horn, lights, having been activated and starter disabled), the system CANNOT be turned off using the ignition switch. Once the system has reached the ALARM phase, it may only be deactivated by using the key in the door or hatch/trunklid.

## TO ARM THEFT-DETERRENT SYSTEM

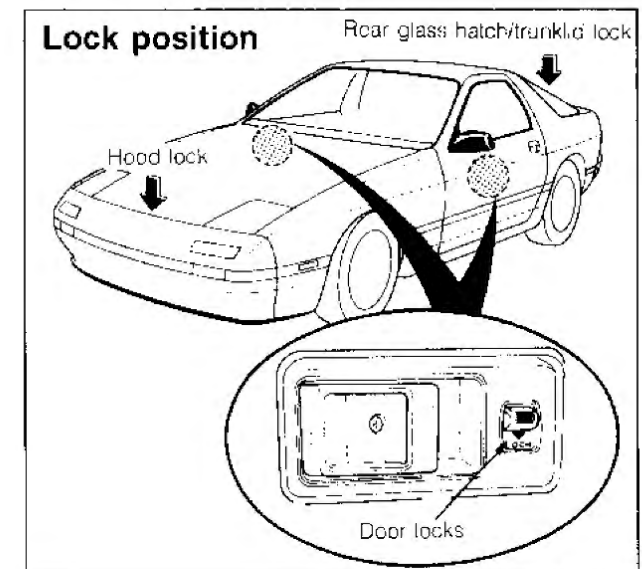
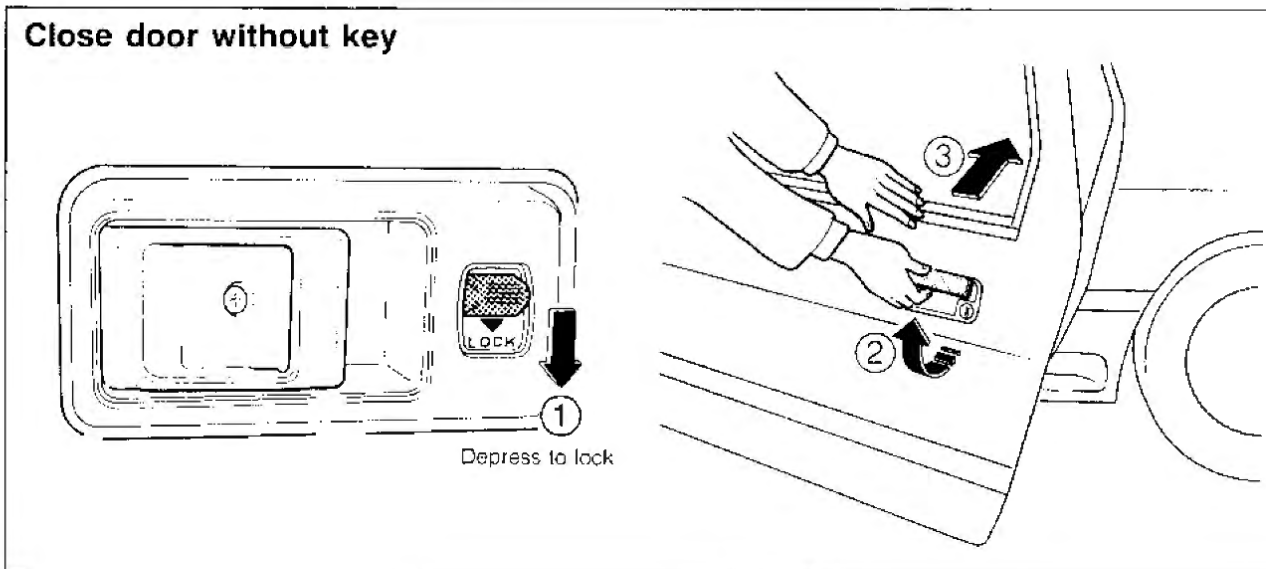
1. Remove the ignition key, close and lock all doors, hood and hatch/trunklid.
  - The last door to be locked must be locked without the key. When the door lock button is pushed a beep will be heard and the indicator light comes on.
  - It does not matter in what order the doors, hood and hatch/trunklid are locked.
2. The indicator lamp comes on for about ten seconds and then flashes for about five seconds when the last door, hood or hatch/trunklid is locked and closed. After this, the indicator lamp flashes once every

three seconds to indicate that the system is fully armed. It continues to flash until the theft-deterrent system is turned off.

- If the door is unlocked or the ignition switch is turned to ON during the 15 second time period, the system will not be armed. Thus, the system must be rearmed.
- If the hatch/trunklid is opened with the key when armed, the warning alarm will not be activated and the system will not be turned off.

## CAUTION

- If the last door is locked with the key, the system will not be armed.
- If the driver is in the vehicle with the driver's door locked and the ignition switch OFF, the system will be armed and a beep will be heard, provided the hood and hatch/trunklid are closed and the doors are locked by someone outside the vehicle. To turn off the system (except during and after any time the alarm has been activated) turn the ignition key to ON. Then get out and re-arm the system.
- If the driver gets out and locks the driver's door before the passengers get out, the vehicle will be armed, provided the doors,



hood and hatch/trunklid are also locked. If a passenger now releases the inside door lock button, the warning alarm will be activated.

**THEREFORE, THE DRIVER'S DOOR SHOULD BE LOCKED LAST, ONLY AFTER ALL THE PASSENGERS GET OUT OF THE VEHICLE.**

- The system is armed even if a window is left open. If this is the case make sure to unlock the door with the key, because the warning alarm will be activated if the inside door lock button is lifted up.

### **TO TURN OFF THEFT-DETERRENT SYSTEM WHEN ARMED**

To turn off the system after it has been armed, unlock the door with the key or turn the ignition switch to ON.

### **TO STOP WARNING ALARM**

To turn off the warning alarm if it has been triggered by error or tampering, unlock the door or hatch/trunklid with the key. This can be done with the door open or close, but with the hatch/trunklid closed only.

**The alarm will not stop if the ignition switch is turned to ACC or ON.**

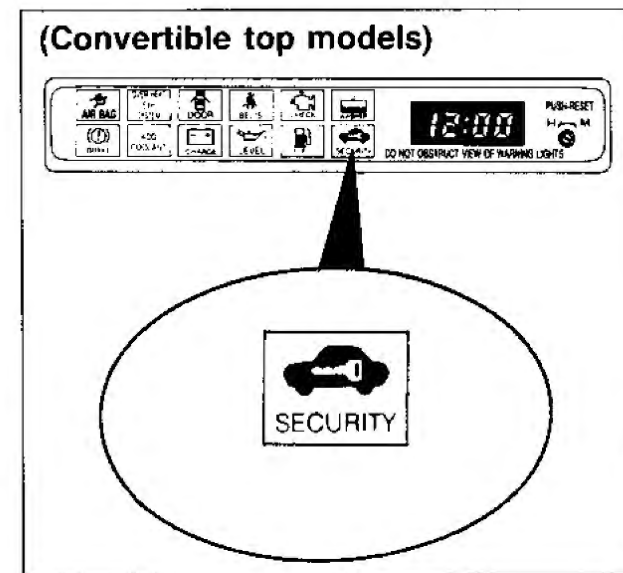
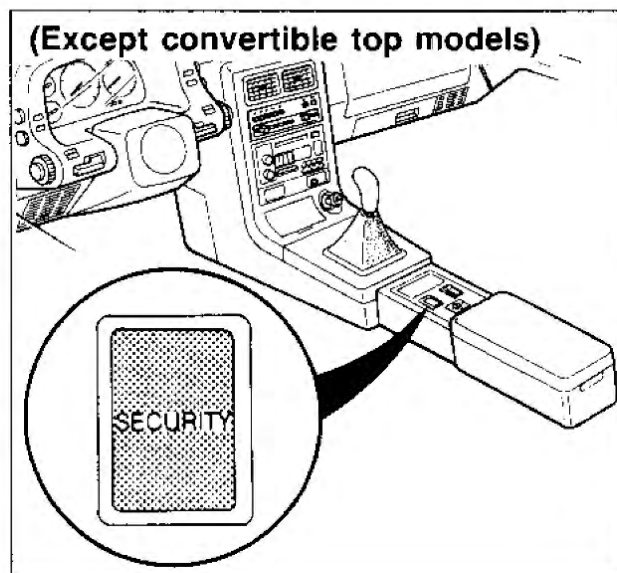
### **INDICATOR LAMP OPERATION**

The indicator lamp indicates the operating condition of the warning system.

- The indicator lamp comes on for about ten seconds and then flashes for about five seconds after the last door is locked. After this, the lamp flashes once every three seconds to indicate that the system is fully armed. If the hatch/trunklid or hood is opened with the ignition key removed or in LOCK position, the indicator lamp will flash once.

### **NOTE**

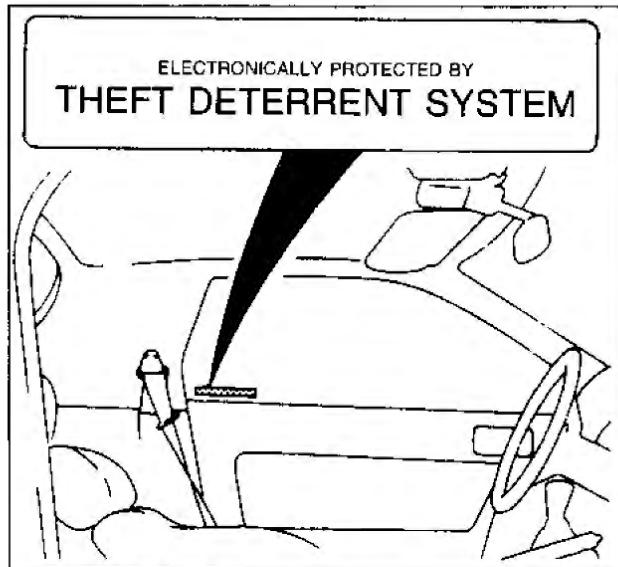
If any problems are encountered with your Theft-deterrent system, have it checked by your Authorized Mazda Dealer.



## **THEFT-DETERRENT SYSTEM INDICATION LABEL**

Theft-Deterrent System Indication labels are contained in the glove box of your vehicle for your use.

Mazda recommends you to stick them at the rear lower corner of door windows.



## FRONT SEATS

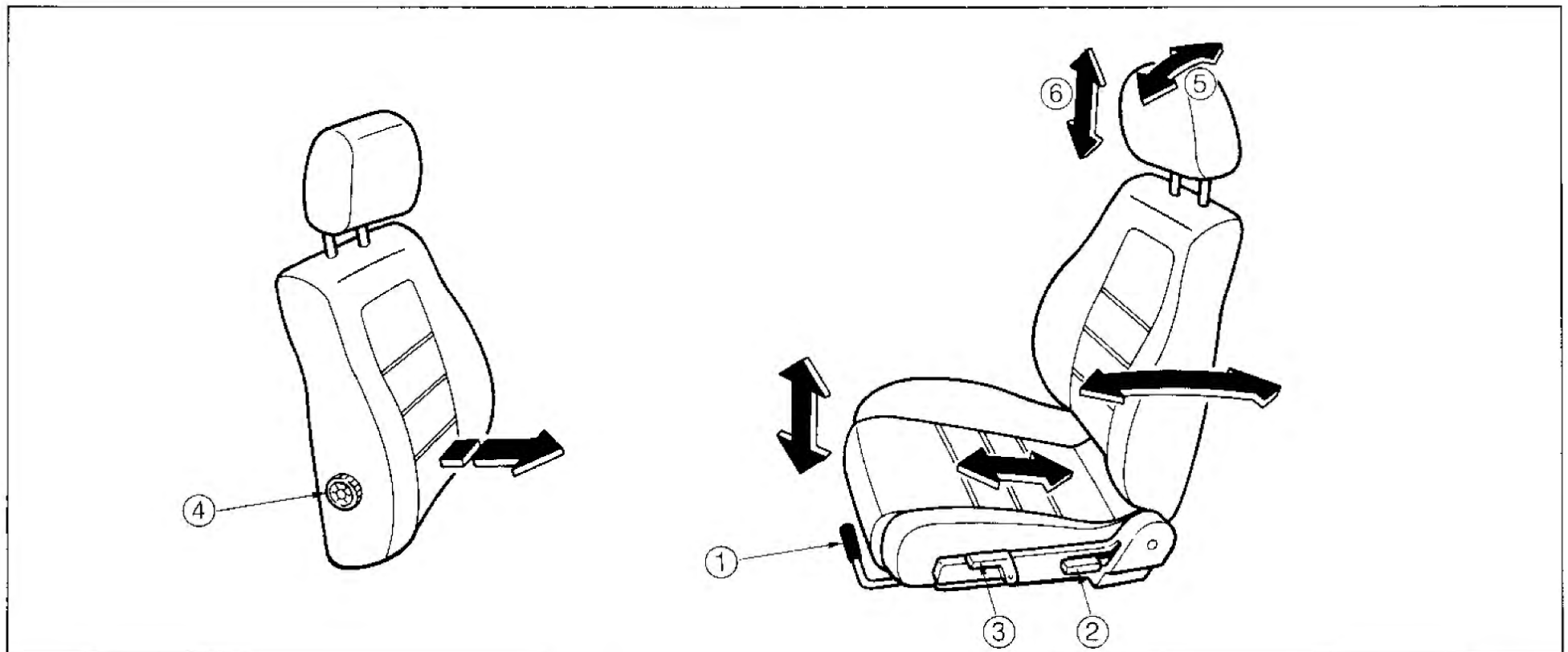
1. Seat slide adjustment lever
2. Seat reclining adjustment lever
- 3.\*Seat height adjustment lever
- 4.\*Lumbar support adjustment dial
- 5.\*Head restraint fore/aft adjustment
- 6.\*Head restraint vertical adjustment

\* if equipped

### **WARNING!**

- Do not adjust the driver's seat while the vehicle is moving, as this could cause loss of control, accident, and personal injury.
- Rear seat passengers should not lean on the front seatback while the vehicle is in motion. A seatback which is folded forward even a small degree may not lock properly in the event of a sudden stop or collision. Do not allow packages or oth-

er objects to interfere with the normal positions of the seatback. This may prevent the seatback from locking in the event of a sudden stop or collision (4-seater models).



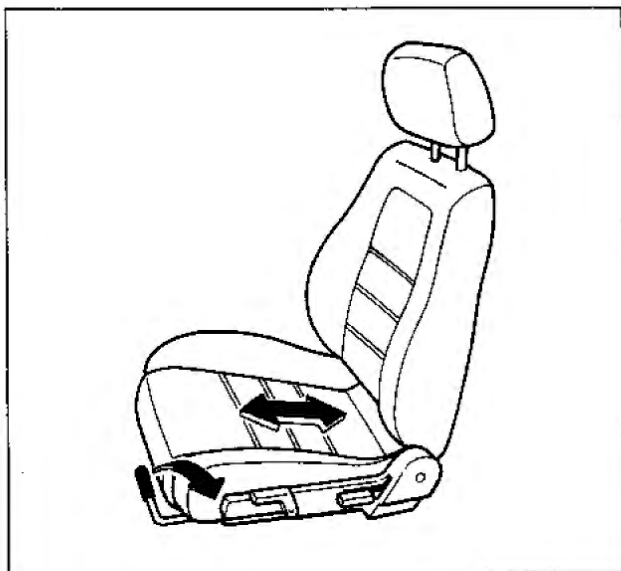
97U2-0150E

### SEAT SLIDE ADJUSTMENT

To move the front seat forward or backward, pull the lock lever sideways and hold it. Slide the seat to the desired position, and release the lever.

### CAUTION

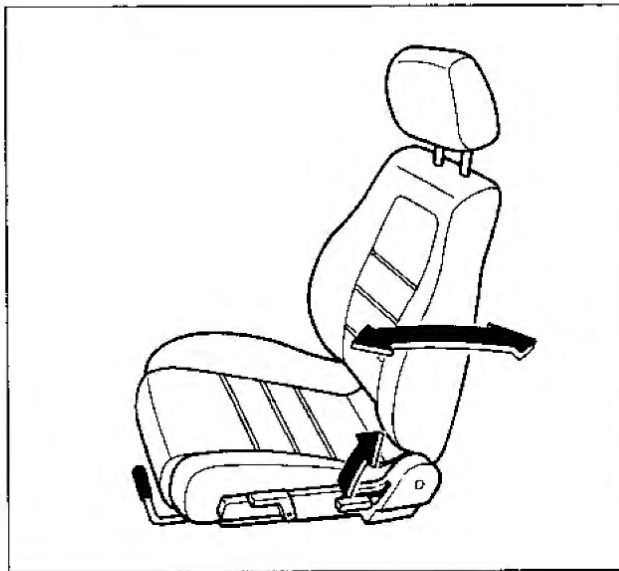
Do not place anything under the front seats, as it might interfere with the seatlock mechanism.



77U2-0160E

### SEAT RECLINING ADJUSTMENT

To change the seatback angle, lean forward slightly and pull up on the seatlock lever. Then lean back to the desired angle and release the lever. After adjustment, make sure the lever is returned to its original position; otherwise the seatback could unlatch while the vehicle is in motion and cause the driver to lose control.



### WARNING!

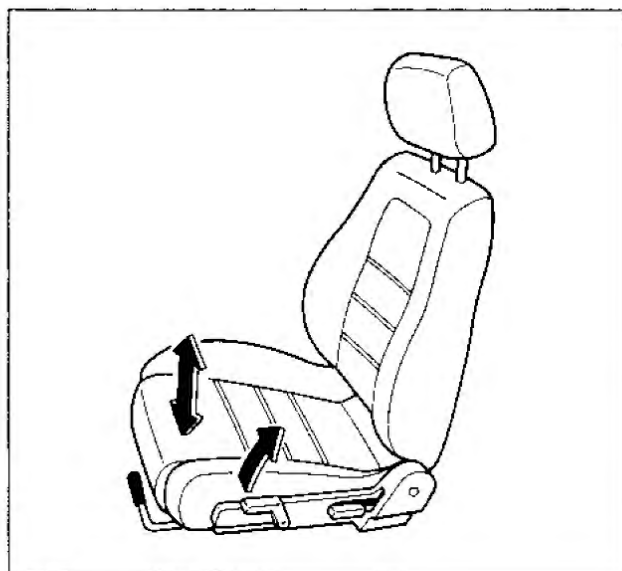
To reduce the risk of sliding under the lap belt and thereby suffering personal injury in the event of a collision, do not recline the seatback any more than necessary for comfort. The seat belts are designed to provide optimum protection when the front passenger and driver are sitting well back and straight up in their seats. During a collision, particularly a frontal collision, the risk of personal injury may increase with the increasing recline of the seatback, as the front passenger and driver may slide under the lap belt and have restraint forces applied directly to their abdominal areas. Therefore, try to keep the seatback in a fairly upright position whenever possible.

67U2-0170E

### SEAT HEIGHT ADJUSTMENT (driver's seat only, if equipped)

The lower seat cushion angle can be adjusted.

1. To raise the front end of the seat cushion, pull the lever and exert slight body pressure against the seatback.
2. To lower the front end of the seat cushion, pull the lever and exert slight body pressure against the seat cushion



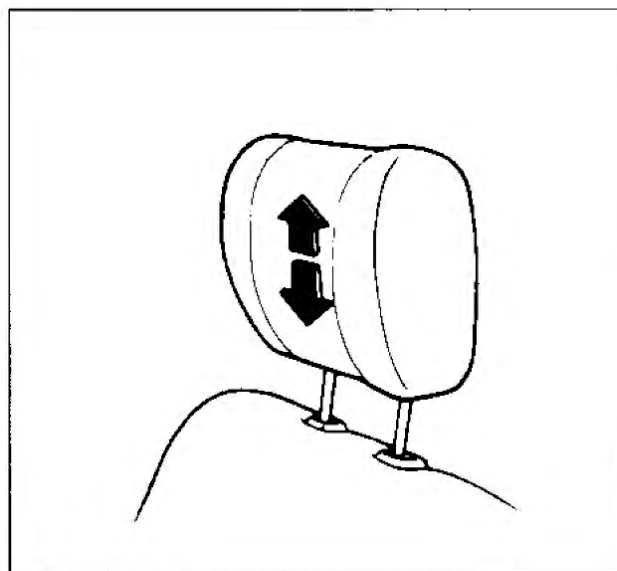
97U2-0180E

### HEAD RESTRAINT VERTICAL ADJUSTMENT (if equipped)

- To raise the head restraint, pull it up.
- To lower the head restraint, press it down.

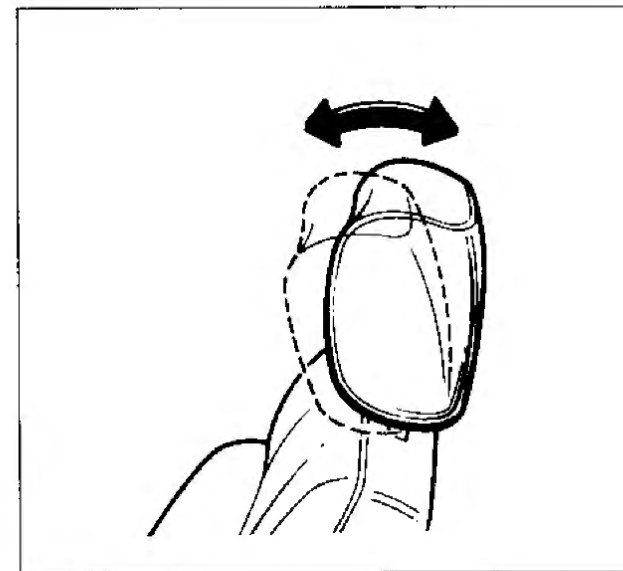
#### **WARNING!**

- To reduce the risk of head and neck injuries, do not operate the vehicle with the head restraints removed.
- Adjust the top of the head restraints so that it is closest to the top of your ears and never behind your neck to reduce the chance of injury in the event of a collision.



### HEAD RESTRAINT FORE/AFT ADJUSTMENT (if equipped)

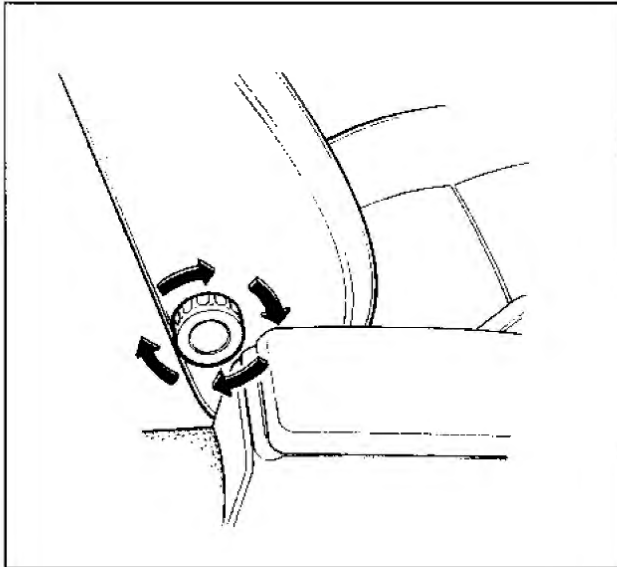
The head restraint is adjustable in the fore/aft direction by applying pressure on the top of the restraint.



97U2-0190E

### **LUMBAR SUPPORT ADJUSTMENT (driver's seat only, if equipped)**

To adjust the lumbar support, rotate the dial on the inboard side of the seat-back. The lumbar support can be adjusted to provide the most comfortable support.



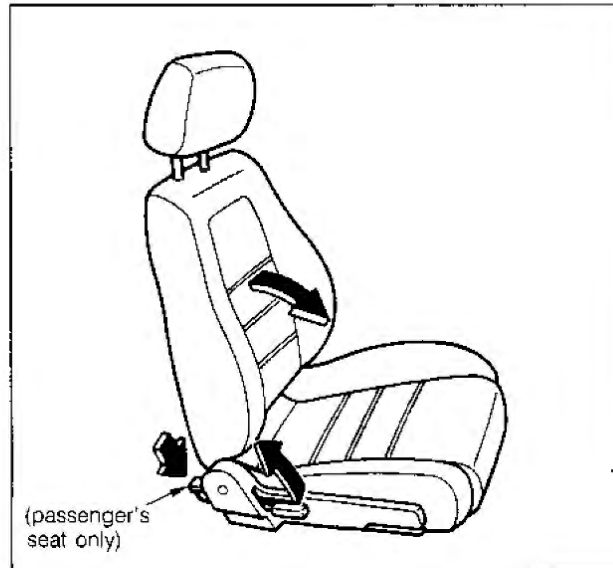
97U2-0200E

### **REAR SEAT ACCESS (4-seater models)**

Pull the seatback lever or depress the foot pedal (passenger's seat only). The seatback will fold down.

#### ***WARNING!***

- Do not unlock the driver's seatback while the vehicle is in motion to prevent the risk of the driver losing control of the vehicle.
- Passengers sitting in the rear seat must be careful not to accidentally press the pedal while the vehicle is moving.

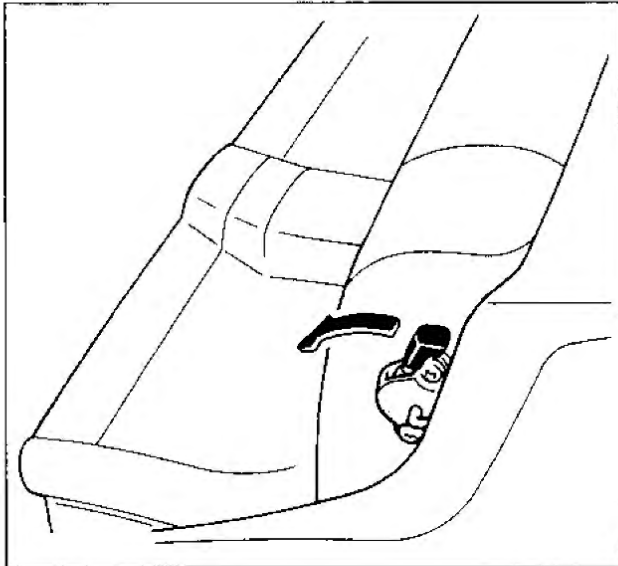


97U2-0210E

## FOLDING REAR SEAT (4-seater models)

The rear seatbacks easily fold forward and down to provide additional cargo space through the luggage compartment floor.

- To lower the seatback, pull the seatback latch forward to unlock it and then fold the seatback forward and down.
- To raise, lift the seatback and push it firmly into place.



### CAUTION

When replacing the seatback to the upright position, make sure it is securely latched by pushing forward and rearward.

### WARNING!

- If the seatback is not securely latched, passengers or objects could be thrown forward and injury could occur in the event of a sudden stop or collision.
- To avoid possibility of burn injuries, do not remove the floor carpet in the cargo area. Emission controls cause high exhaust temperatures under the floor.
- Luggage or other cargo should not be piled higher than the seatbacks, as they may become dangerous projectiles in the event of a sudden stop or collision.
- To help prevent serious injuries in the event of sudden acceleration, quick stops or collisions, passengers should not ride in the cargo area, nor sit or recline on the folded seatbacks while the vehicle is in motion.
- Do not let children around the folded seatbacks to avoid their being trapped inside the cargo area by accident.

67U2-0220E

## TILT STEERING WHEEL (if equipped)

To change the steering wheel angle, pull down on the lock-release lever located under the steering column. Tilt the steering wheel to the desired angle while holding the lever fully down and push up on the lock-release lever. After adjusting, move the steering wheel up and down to assure it is locked in position.

### WARNING!

Never adjust the tilt position of the steering wheel while the vehicle is moving.



## SEAT BELT RESTRAINT SYSTEM

### Seat belts with retractors

To help decrease the possibility or severity of injury in accidents or sudden stops, we recommend that you and your passengers in the vehicle be properly restrained at all times, using the seat belts provided. The seat belts have retractors with inertia locks.

The retractors keep the belts out of the way while passengers enter or exit the vehicle. Inertia locks allow the belts to remain slack on the passengers for comfort until a deceleration force occurs (such as a sudden stop or collision). At that time the belts will automatically lock in position, and you and your passengers will be restrained.

### WARNING!

- The seat belt assemblies may be damaged when subjected to stress by occupants in a collision and must be replaced.
- Passengers should not be allowed to ride in the cargo area of any vehicle. Persons who are not riding in a seat with a fastened seat belt are much more likely to suffer serious bodily injury in the event of a collision.

## FRONT SEAT BELTS

### (Except convertible top models)

The automatic shoulder belt system is one in which the shoulder belt automatically fastens and unfastens for persons sitting in the front seats. This shoulder belt is equipped with a retractor, which will lock in case of a sudden stop or collision.

The lap belt is operated manually.

To provide sufficient restraint, always fasten the lap belt.

### CAUTION

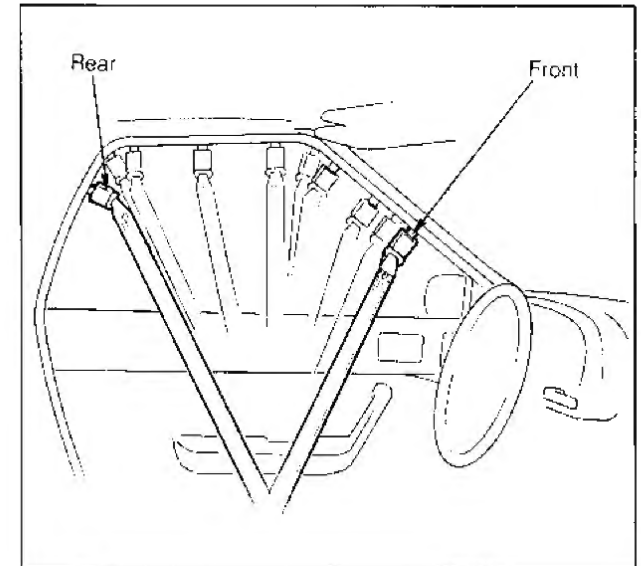
Make sure that the sun visor is in the original position when the belt buckle advances or retreats to prevent possible damage to the sun visor.

### Shoulder Belt

To fasten your shoulder belt, get in the vehicle, close the door, and turn the ignition key to the ON position.

The shoulder belt buckle moves from front to rear automatically.

When you stop your vehicle and open the door, the shoulder belt buckle moves from rear to front automatically.



- **Emergency release button**

In an emergency such as an accident, press the emergency release button on the shoulder belt buckle. The shoulder belt will be released.

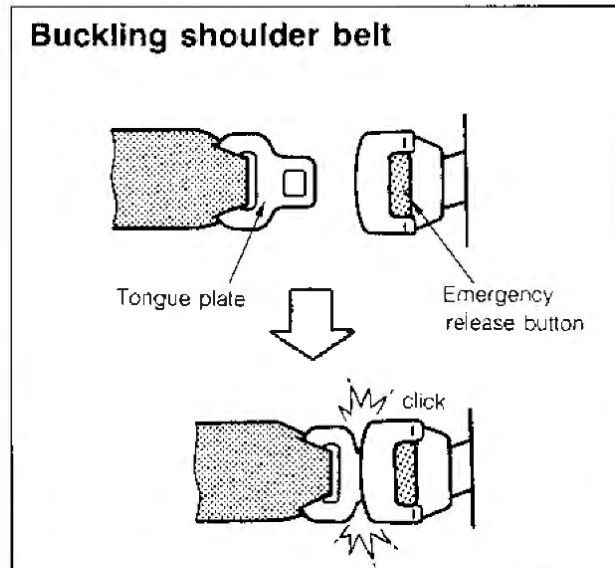
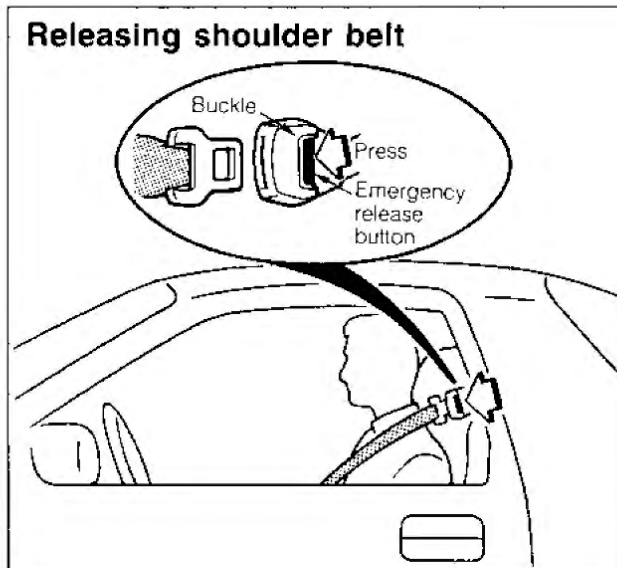
When buckling the shoulder belt after it has been released, insert the tongue of the shoulder belt into the buckle until an audible click is heard.

**WARNING!**

- When wearing the shoulder belt, make sure it is not twisted. Failure to do so may increase the possibility and/or severity of injury in an accident.
- For your safety, never let the shoulder belt pass under your outer arm.
- Under normal circumstances, do not press the emergency release button to release the shoulder belt, or you will not obtain shoulder belt restraint at the time of an accident.
- Keep your hands, head, other parts of your body and other objects away from the buckle and its path while it is moving. They may get caught, resulting in injury.

**CAUTION**

When the shoulder belt is moving, do not impede its movement by pulling on it with your hand, etc.



- **Emergency handle**

If the automatic shoulder belt should fail to operate correctly, consult your nearest Authorized Mazda Dealer as soon as possible.

If the shoulder belt fails to move to the rear-most position, perform the following procedures to allow use of the shoulder belt.

1. Turn the ignition switch OFF.
2. Release the shoulder belt from the buckle using the emergency release button.
3. Remove the cap located in the rear trim.
4. Pull the electrical wiring harness out through the hole in the trim, and disconnect the connector.

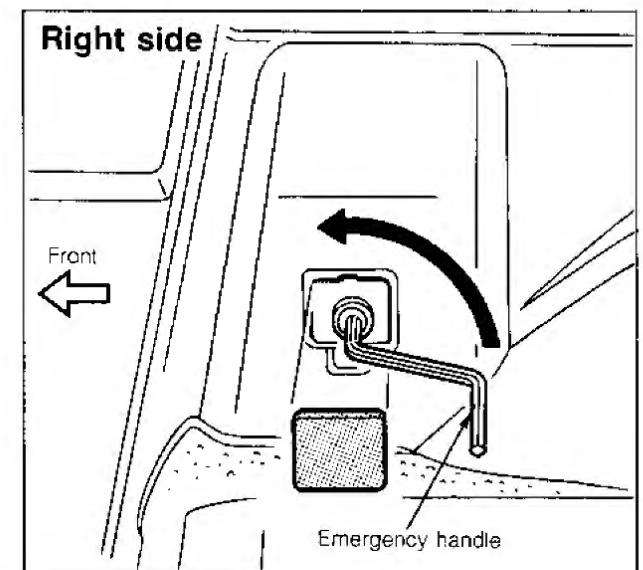
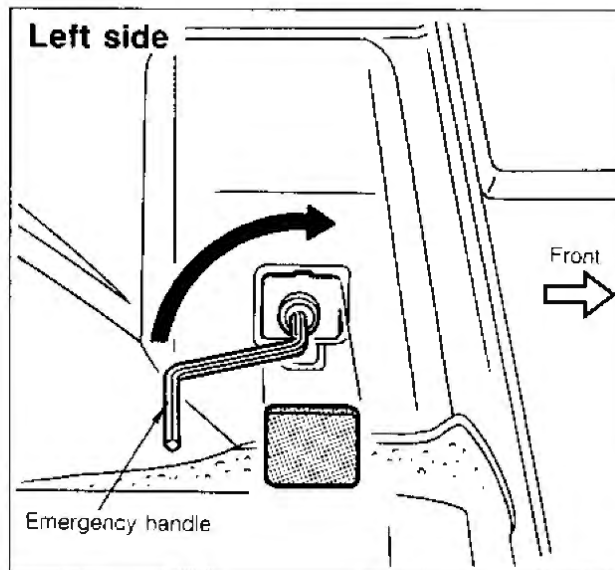
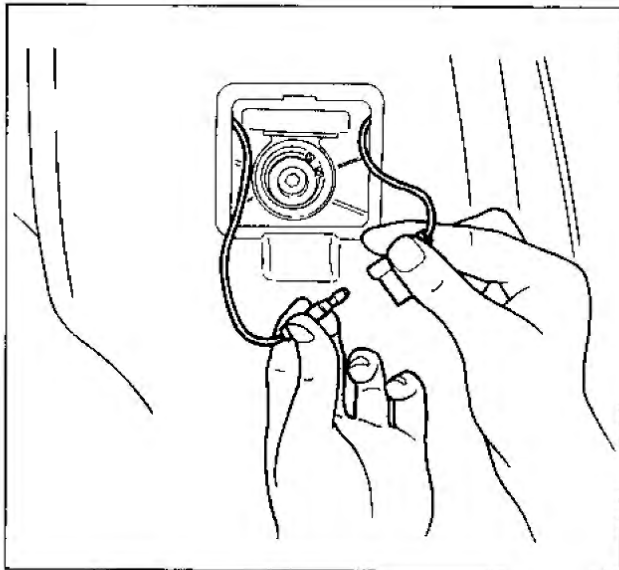
**NOTE**

Never pull on the wiring when disconnecting connectors. When locking connectors, make sure to listen for a click that will let you know they are securely locked.

5. Fit the emergency handle into the internal hex-nut.
6. Turn the emergency handle to move the buckle rearward (for the left side turn clockwise; for the right side, turn counterclockwise). Move the buckle until an audible click is heard.
7. After sitting on the seat, insert the tongue of the shoulder belt into the buckle until an audible click is heard.

**NOTE**

Always keep the emergency handle handy in the glove box.



## Lap Belt

### To fasten seat belt

1. Grasp the buckle end.
2. Grasp the tongue plate and pull it until the desired length is obtained.
3. Insert the tongue plate into the open end of the buckle until an audible click is heard, indicating the belt is locked. Make sure the belt is not twisted.
4. Adjust the belt by pulling the belt down toward the retractor.

### CAUTION

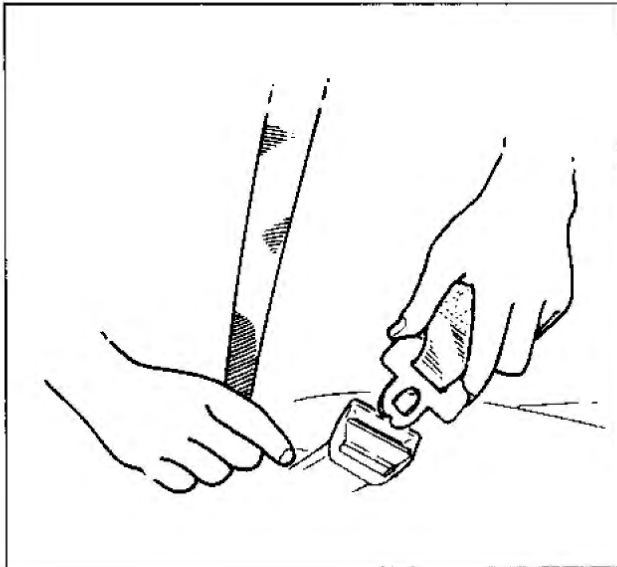
Make sure the lap belt does not cross with the shoulder belt.

### WARNING!

Be sure the lap belt is fitted snugly around the hips, not on the waist. Failure to do so may increase the chance of injury in the event of a collision.

### To unfasten seat belt

Depress the button on the buckle.



### (Convertible top models)

#### To fasten seat belt

1. Grasp the buckle end and tongue plate.
  2. Slowly pull out the lap/shoulder belt.
  3. Insert the tongue plate into the open end of the buckle. An audible click will indicate the belt is securely locked.
- Position the lap belt across your lap as **LOW ON THE HIPS** as possible to reduce the risk of sliding under it during an accident. Adjust it to a **SNUG FIT** by pulling the belt through the tongue plate.
  - The belt retractor is designed to take up excess webbing automatically and maintain tension on the belt.

#### NOTE

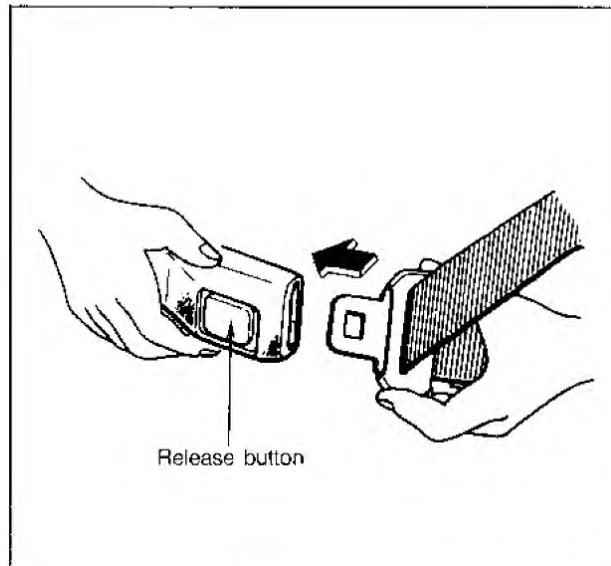
If the belt locks when being pulled out, rewind the belt completely in the retractor and then pull out to the desired length.

#### WARNING!

- Never wear the shoulder belt under the arm. Never swing it around your neck and over the inside shoulder.
- Use the shoulder belt on the outside shoulder only.
- Never use a single belt for more than one person.
- Be sure the lap portion of the belt is fitted snugly around the hips, not on the waist.
- Failure to follow these precautions could increase the chance and/or severity of injury in an accident.

#### To unfasten seat belt

To unfasten the belt, depress the release button.



## SEAT BELT WARNING SYSTEM

### (Except convertible top models)

#### Lap Belt, driver only

As a reminder to the driver to fasten the lap belt, the warning lamp will glow for about six seconds each time the ignition switch is turned to the ON position.

If the driver's lap belt is not fastened when the ignition switch is turned to ON position, the reminder buzzer will sound for about six seconds.

Any time during the six seconds, the reminder buzzer will stop sounding immediately when you fasten the lap belt.

#### Shoulder Belt, driver and passenger

If either driver or passenger shoulder belt is not buckled when the ignition switch is turned to the ON position, the reminder buzzer will sound for about six seconds, and the warning lamp will glow until both shoulder belts are buckled.

When the ignition switch is in the ON position and the shoulder belt is moving, the warning lamp will glow. When the shoulder belt comes in the rear position, the warning lamp will go out.

### (Convertible top models, driver only)

As a reminder to the driver to fasten the seat belt, the warning lamp will glow for about six seconds each time the ignition switch is turned to the ON position.

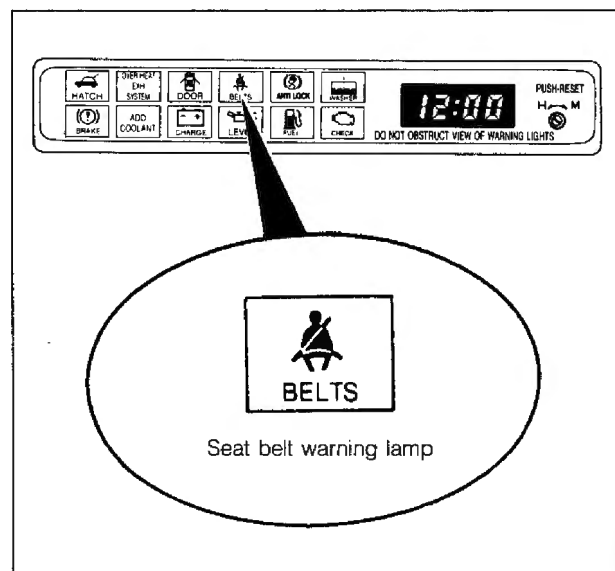
If the driver's seat belt is not fastened when the ignition switch is turned to ON position, the reminder buzzer will sound for about six seconds.

Anytime during the six seconds, the reminder buzzer will stop sounding immediately when you fasten the seat belt.

If the system does not operate as described, consult your nearest Authorized Mazda Dealer.

### REAR SEAT BELTS (if equipped)

Use in the same manner as Convertible top models (see page 2-20).



## **RESTRAINT OF INFANTS OR SMALL CHILDREN**

Small children and infants should be restrained by an approved child restraint system (including a baby carrier). Never permit children to stand or kneel on the seat of any moving vehicle and never put the same seat belt around your child and yourself. Also, never hold a child on your lap or in your arms. No matter how strong a person may be, he cannot hold a child in the event of an accident. The child may be injured by striking parts of the vehicle or be crushed by an unrestrained passenger.

A child restraint system can help protect small children and infants in a vehicle.

Any number of companies manufacture safety seats for infants and small children. An acceptable child restraint system should always satisfy local motor vehicle safety standards.

***Never leave a child unattended in your vehicle. Moreover, it should be chosen to fit both the size of the child and of the vehicle seat.***

***Be sure to follow any instructions provided by the manufacturer when installing the child restraint system.***

## **CAUTION**

- Since a safety belt or child restraint can become very hot if it is left in a closed vehicle, be sure and check the seat cover and buckles before placing a child there.
- When the child restraint system is not in use, fasten it with a safety belt or luggage straps (if equipped, see page 2-30 for detailed information.) so that it will not be thrown forward in the case of a sudden stop or accident.
- Children could be endangered in a crash if their child restraints are not properly secured in the vehicle.
- According to accident statistics, children are safer when properly restrained in the rear seating positions (if equipped) than in the front seating positions.

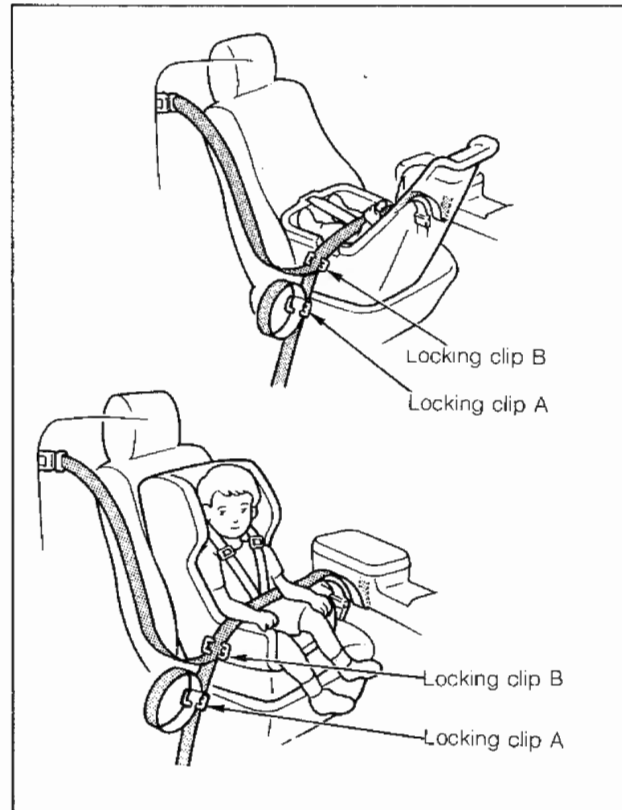
## **NOTE**

All child restraint systems are designed to be secured in vehicle seats by lap belts or the lap belt portion of a lap/shoulder belt.

## Installation on Front Seat (Except convertible top models)

### WARNING!

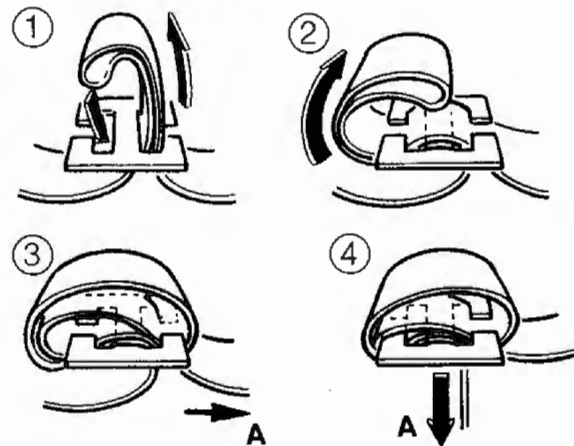
- The automatic shoulder belt cannot be used to secure the child restraint system. Do not attempt to use it.
- Failure to follow the following instructions could increase the chance and/or severity of injury in an accident.



If the child restraint system is installed on the front seat with the lap belt, follow the procedure below.

1. Slide the seat to the rearmost position.
2. Fasten the child restraint system with the lap belt as shown in the illustration.
3. Pull the lap belt out fully.
4. Remove the slack of the lap belt with the locking clip (part number FA55 57 999, available from your Mazda Dealer) as shown in the illustration at any convenient point along the lap belt. Make the loop as large as possible to remove any slack.
5. After securing the belt, pull on it in the directions marked A in the illustration to make sure that it does not slip.

### How to install locking clip A

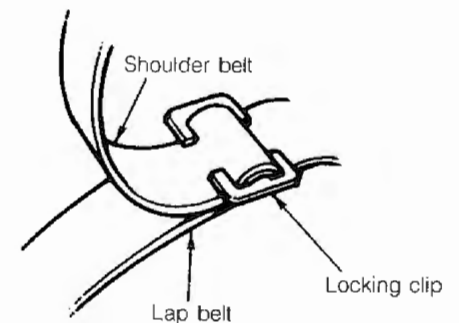


6. If necessary, slide the seat forward to remove any remaining slack.
7. Pull the shoulder belt all the way out from the retractor, and overlapping the lap belt, pass it through the child seat; then, at the outer side (door side) of the seat, secure it and the lap belt by using the locking clip.

### NOTE

When your child restraint system is not installed, the locking clips should be stored in the vehicle to prevent its loss.

### How to install locking clip B



### (Convertible top models)

To install a child restraint system, a seat belt locking clip is required. Secure the child restraint with the lap belt, as shown in the illustration.

To prevent looseness of the lap belt, use a genuine Mazda locking clip (part number FA55 57 999, available from your Mazda Dealer) or one of equivalent dimensions and strength.

1. Fasten the child restraint system with the lap and shoulder belts as shown in the instructions provided with the child restraint.

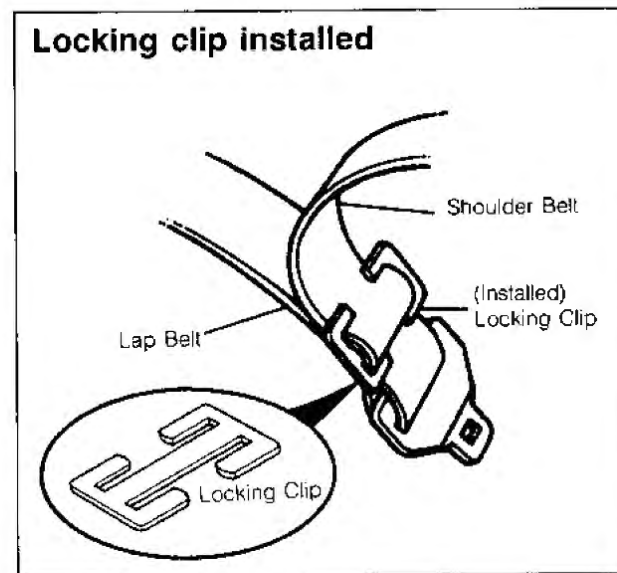
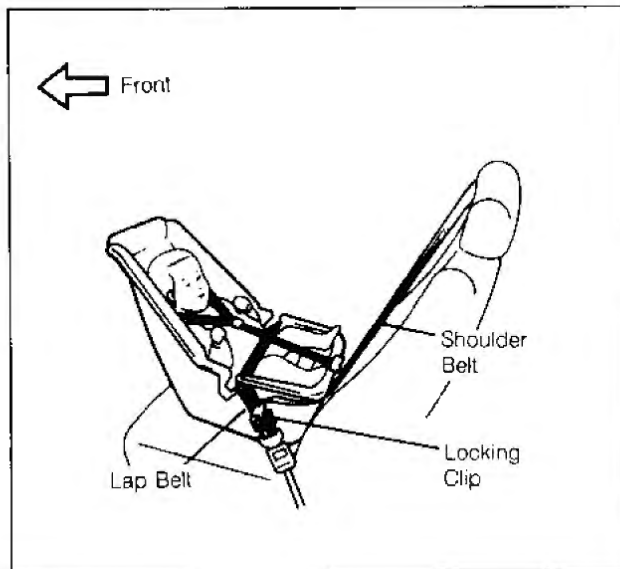
2. Tighten the lap belt by pulling on the shoulder belt.
3. To install the locking clip, insert the lap and shoulder webbing through the recesses of the locking clip near the seat belt latch.
4. After securing the belt by use of the locking clip, tuck the shoulder portion of the belt between the child restraint system and the seatback.

### NOTE

When your child restraint system is not installed, the locking clip should be stored in the glove box to prevent it from being lost.

### Installation on Rear Seat

Use in the same manner as Convertible top models.



## **CHILDREN**

- Once a child has outgrown the child restraint system, he should use the belts which are provided in the vehicle. If he is so small that the shoulder belt crosses his neck or face, he should use the child restraint system.
- Infants who cannot sit up should be placed in a padded baby carrier.

## **RESTRAINT OF PREGNANT WOMEN**

Pregnant women should use seat belts according to specific recommendations by their doctors.

The lap belt should be worn as **SNUGLY** and **LOW** as possible.

97U2-0250E

## **PROPER USE AND CARE OF SEAT BELT SYSTEM**

To gain maximum effectiveness from the seat belt system, follow these suggestions.

- Use the belts at all times—even on short trips.
- Never use the same belt for more than one person at a time.
- Avoid wearing twisted belts.
- Keep sharp edges and damaging objects away from the belts and other parts of the restraint system.
- Periodically inspect belt webbing, buckles, anchors, and all other parts for signs of wear, damage, or weakness. Replace questionable parts immediately.
- To clean the belt webbing use any mild soap solution recommended for cleaning upholstery or carpets; follow the instructions provided with the soap. Do not bleach or redye the webbing as this may weaken it.
- No modifications or additions should be made by the user.
- After wearing a seat belt, make sure it is not caught on adjusting levers or elsewhere.

## **WARNING!**

All seat belt assemblies including retractors and attaching harness should be inspected after any collision. Mazda recommends that all seat belt assemblies in use during a collision be replaced unless the collision was minor and the seat belts show no damage and continue to operate properly. Seat belt assemblies not in use during a collision should also be inspected and replaced if either damage or improper operation is noted.

## SUPPLEMENTAL DRIVER AIR BAG RESTRAINT SYSTEM (Convertible top models)

The Supplemental Driver Air Bag Restraint System is designed to provide protection for the driver in a frontal accident **in addition to** that provided to the driver by the three-point seat belt system. However, the Supplemental Driver Air Bag Restraint System is not designed to deploy in any accident except a moderate to severe frontal collision, and is not designed to assist the driver in a side impact, rear impact, or roll-over accident. Seat belts, which are designed to help decrease the possibility or severity of injury in accidents or sudden stops, must be used to obtain the best occupant protection of which the vehicle is capable. **We recommend the use of seat belts by all vehicle occupants to reduce the risk of injury in an accident.** Use of a seat belt by the driver is particularly important to keep the driver in the proper position for maximum air bag protection.

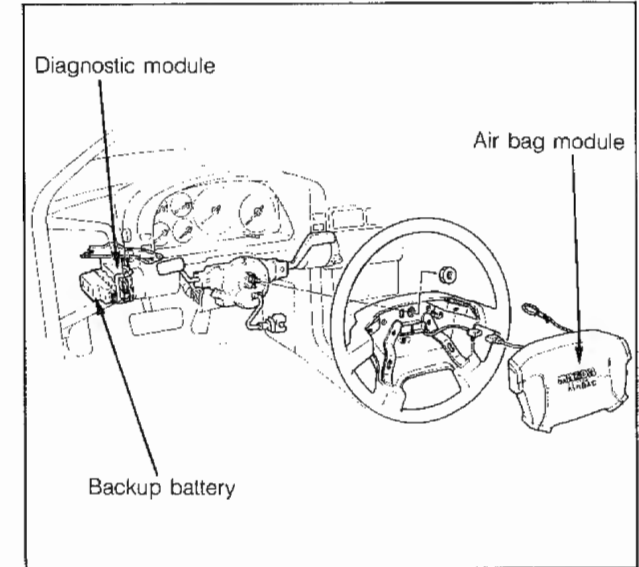
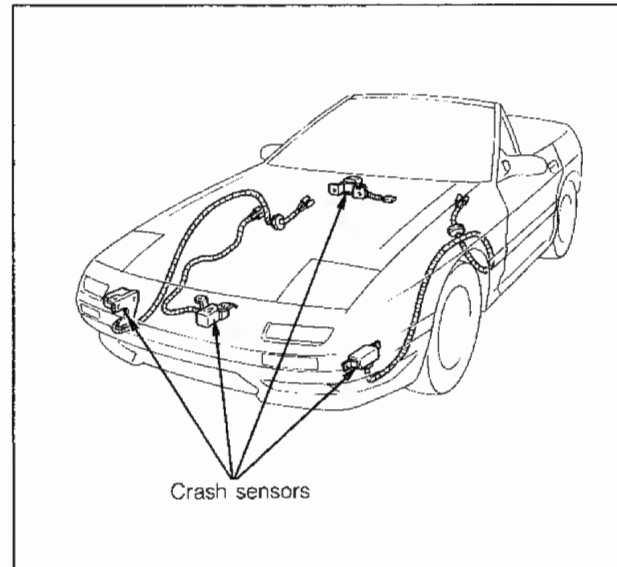
### SYSTEM DESCRIPTION

The Supplemental Driver Air Bag Restraint System consists of two basic sub-systems: the driver air bag system, with the inflator and air bag; and the electrical system, including crash sensors and diagnostic module. The air bag is mounted in the center of the steering wheel, but it is designed to stay out of sight until activated by a moderate to severe frontal collision.

### WARNING!

To avoid accidental activation of the system or rendering the system inoperative, which may result in serious injury, no modifications should be made to any com-

ponents or wiring of the Supplemental Driver Air Bag Restraint System as illustrated. This includes the installation of additional trim material, or badges or similar items over the steering wheel hub and installation of additional electrical/electronic equipment on or near Supplemental Driver Air Bag Restraint System components and/or wiring.



The Supplemental Driver Air Bag Restraint System is designed to rapidly inflate after receiving a signal from the crash sensors. Upon inflation, the rubber coated nylon bag helps prevent the driver's face and chest from striking the steering wheel or windshield, supplementing the restraint provided by the seat belt. The bag then rapidly deflates.

#### **NOTE**

During a severe frontal impact, a sudden, fairly loud inflation noise will be heard and a small quantity of smoke will be released, neither of which is injurious. The smoke does not indicate a fire in the vehicle.

The air bag is designed to function on a one-time-only basis. In the event that the air bag is deployed, **the air bag module will not function again and must be replaced.**

Only Authorized Mazda Dealers should repair or replace the system.

Please contact an Authorized Mazda Dealer.

#### ***WARNING!***

If the vehicle has been in a collision that was not great enough to activate the Supplemental Driver Air Bag Restraint System, a careful inspection should be made to check for deformation of the parts on which the sensors are mounted, and repairs must be made if necessary.

See your Authorized Mazda Dealer; otherwise the Supplemental Driver Air Bag Restraint System may not function properly in the event of an accident.

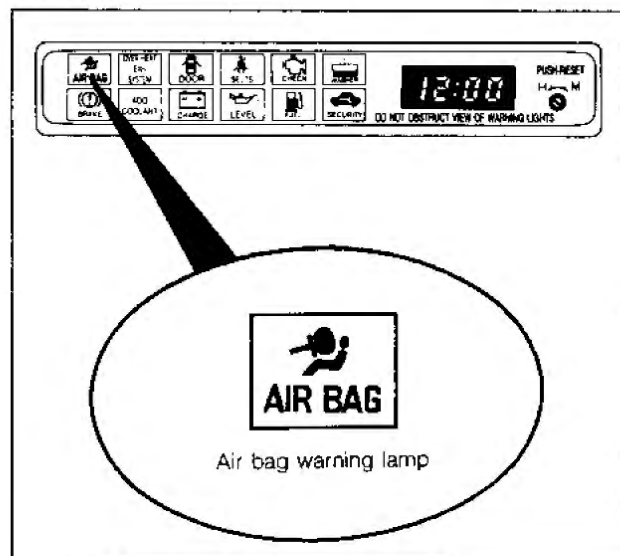
#### **DRIVER INFORMATION FEATURES**

A diagnostic module continually monitors the readiness of the Supplemental Driver Air Bag Restraint System. Monitoring begins when the ignition switch is turned to ON(II) and continues when the vehicle is being driven. The following components are monitored by the supplemental driver air bag restraint system warning lamp or beep.

- Crash sensors
- Backup battery
- Air bag module
- Diagnostic module
- Related wiring
- Warning lamp

## Warning lamp

If the air bag system is operating properly, the warning lamp comes ON when turning the ignition switch ON or after cranking the engine, then goes out after approximately 6 seconds. A system malfunction is indicated by the flashing or continuous illumination of the warning lamp or failure of the lamp to turn on. If the warning lamp fails to light, or stays on continuously or flashes, the Supplemental Driver Air Bag Restraint System is in need of service and should be taken to your nearest Authorized Mazda Dealer as soon as possible. Unless serviced, the Supplemental Driver Air Bag Restraint System may not function properly in the event of an accident.



## Warning beep

The Supplemental Driver Air Bag Restraint System warning lamp is the prime means of determining the air bag system condition. However, a series of 5 beeps will be heard 5 times if the warning lamp is out and malfunction occurs in the system. This also means that the Supplemental Driver Air Bag Restraint System is in need of service. See your Authorized Mazda Dealer as soon as possible. The beeps will repeat each time the ignition switch is turned to ON(II) until the cause of the lamp outage is rectified. The malfunction of the Supplemental Driver Air Bag Restraint System must also be repaired. Unless serviced, the Supplemental Driver Air Bag Restraint System may not function properly in the event of an accident.

## WARNING!

- Do not attempt any self-servicing of the Supplemental Driver Air Bag Restraint System; tampering could cause activation of the system and the risk of personal injury. For servicing of the Supplemental Driver Air Bag Restraint System, see your Authorized Mazda Dealer.
- Please refer to safety instructions available at an Authorized Mazda Dealer when the air bag module is disposed or your vehicle is scrapped. Failure to follow these instructions could increase the risk of personal injury.

## **MAINTENANCE**

The Supplemental Driver Air Bag Restraint System is maintenance free. But in the event of a malfunction indicated by any of the following, the vehicle should be taken promptly to your nearest Authorized Mazda Dealer to have the system checked. Unless checked and repaired, the Supplemental Driver Air Bag Restraint System will not function reliably:

- Flashing of the warning lamp.
- Continuous illumination of the warning lamp.
- Failure of the warning lamp to illuminate, when the ignition switch is first turned to ON(II) and warning beeps sound.
- The air bag has inflated.

## **NOTE**

When you sell the vehicle we urge you to give notice to the subsequent owner that it is equipped with an Supplemental Driver Air Bag Restraint System by alerting him to the applicable section in the Owner's Manual.

B7U2-0270E

## REAR GLASS HATCH/TRUNKLID

To open, insert the key into the key slot and turn it clockwise.

To close, use both hands to push the rear glass hatch/trunklid down until the lock snaps shut. Do not slam it.

Then pull up on the rear glass hatch/trunklid to make sure it is secure.

### NOTE

When opening the rear glass hatch/trunklid in a low-ceilinged garage, be sure to open it with the key and to guard it with your hand.

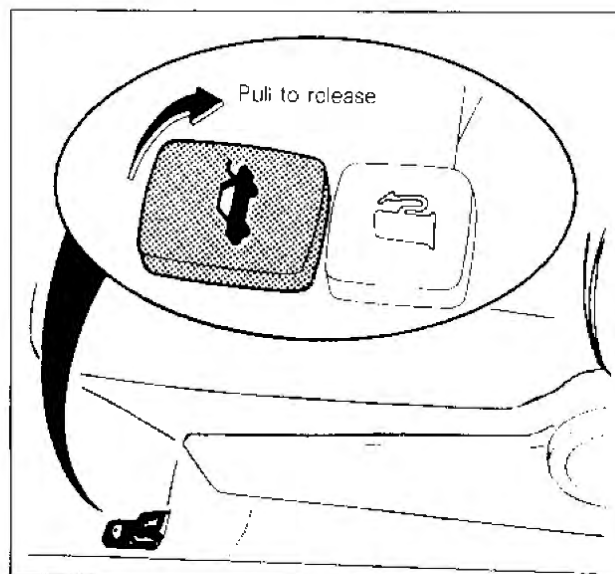
### WARNING!

To avoid drawing dangerous exhaust gases into the vehicle, do not drive with the rear glass hatch/trunklid open.

6/U2-0280E

## REMOTE REAR GLASS HATCH/ TRUNKLID RELEASE (if equipped)

To release the rear glass hatch/trunklid, pull up the release lever located next to the driver's seat.



97U2-0285F

## TRUNK KEY SECURITY SYSTEM (Convertible top models)

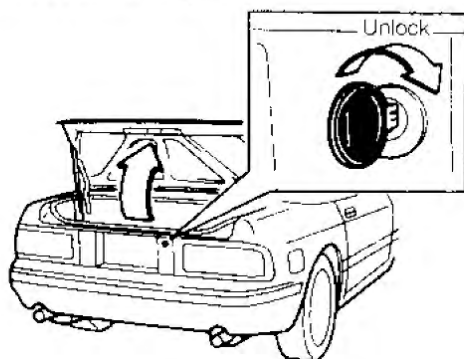
As an extra measure of security, the inside trunk release lever function may be cancelled to prevent anyone inside the vehicle from opening the trunk. To disable the inside release lever, close the trunk and simply insert the primary key in the trunk lock, then turn the key counterclockwise (you will hear a click).

To enable the inside release lever to operate (in other words, to cancel the security function), simply turn the primary key clockwise (you will hear a click). See page 2-3 for other key security functions.

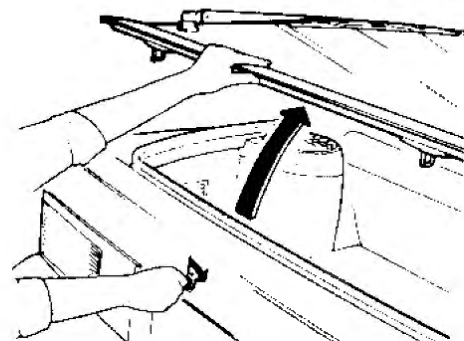
### CAUTION

In case the inside release lever does not open the trunk, always be sure to check the security key system first. Remember that if the key has been turned counterclockwise in the lock (engaging the key security), the inside release lever will not work!

### Convertible top models



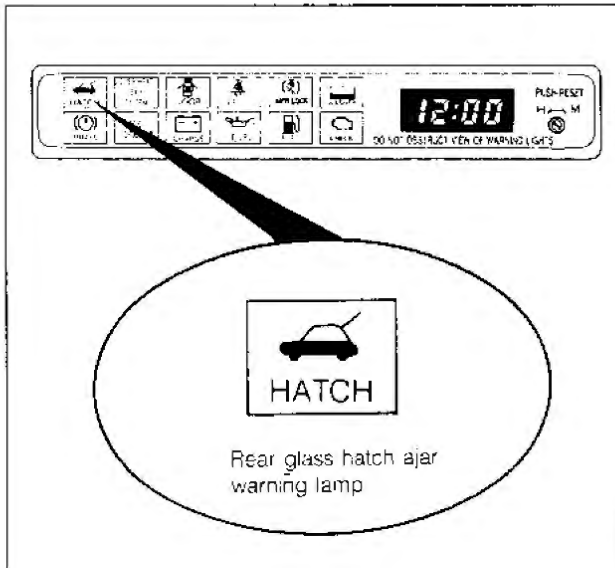
### Except convertible top models



07U2-0290E

## REAR GLASS HATCH AJAR WARNING LAMP (Except convertible top models)

This warning lamp comes on when the rear glass hatch is not closed securely while the engine is running and the parking brake is released.

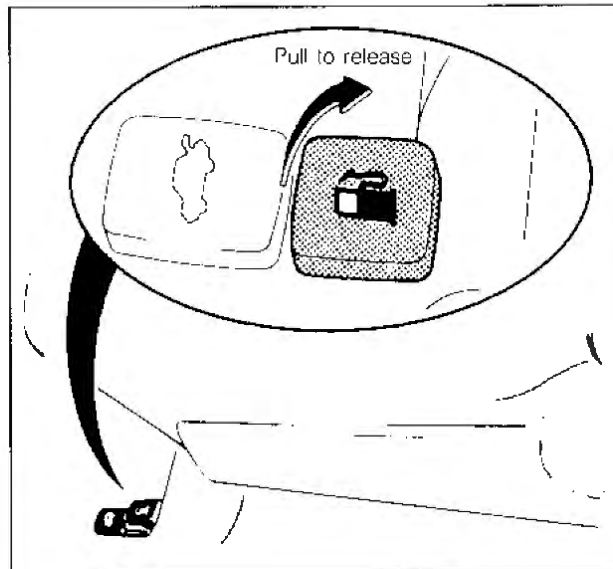


87U2-0300E

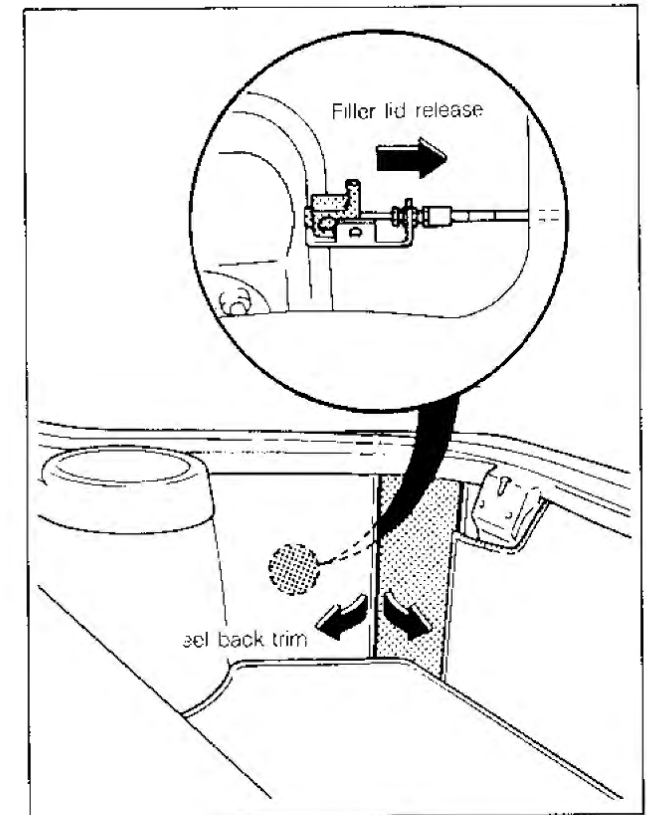
## REFUELING

### FUEL FILLER LID

To open the fuel filler lid, pull up the remote fuel filler lid release knob, located next to the driver's seat.



If for any reason the remote fuel filler lid release does not operate normally, open the rear glass hatch/trunklid and peel back the carpet trim on the right side of the compartment. Clear away any additional insulation. Now reach into the opening and pull the filler lid release toward the rear of the vehicle.



77U2-0310E

## FUEL TANK FILLER CAP

To remove the cap, turn the cap counter-clockwise, and remove.

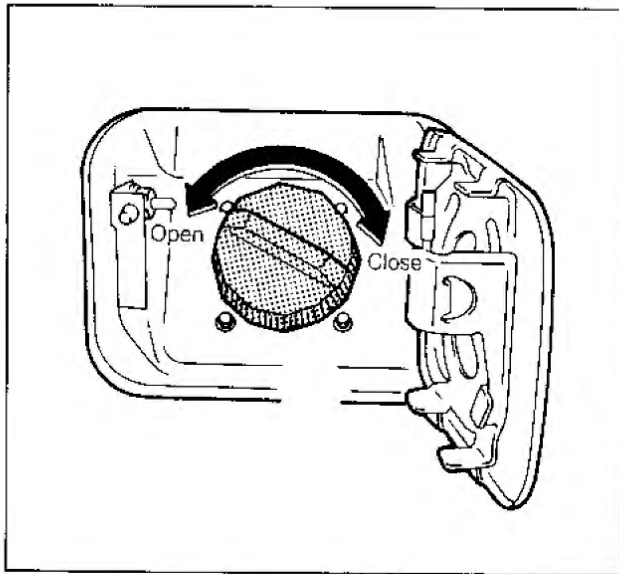
To install the cap, turn it clockwise until you hear a click. This signals that the cap is securely tightened.

### NOTE

If the fuel filler lid will not open in cold weather because the area around it is frozen, push or lightly tap on the lid to open it.

### WARNING!

- If the fuel tank cap requires replacement, use only a genuine Mazda filler cap or equivalent specified for your model.
- When refueling, always stop the engine and never allow sparks or open flames near the filler neck. Fuel vapor is extremely hazardous under certain conditions.

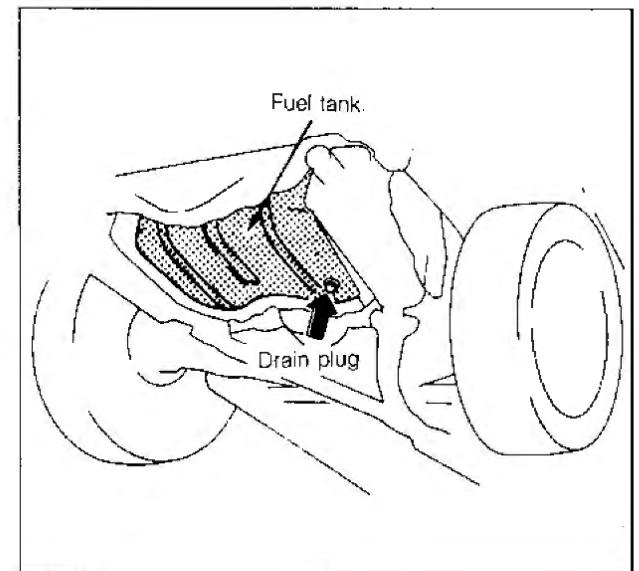


77U2-0315E

## FUEL TANK DRAIN PLUG

Fuel may include some accumulated water, sediment, or foreign materials, and cause problems in driveability and damage to the fuel system. Draining and cleaning of the fuel tank is strongly recommended once a year to maintain peak performance from your vehicle.

However, draining and cleaning a fuel tank can be extremely dangerous and we recommend that this operation be performed **ONLY** by your Authorized Mazda Dealer. Do not attempt to perform this operation yourself!



## POWER OUTSIDE REARVIEW MIRROR

### CAUTION

Do not scrape ice off the mirror face, or it may damage the surface of the glass. If ice should restrict movement of the mirror, do not force the mirror to adjust it. To remove any ice, use a de-icer (spray type, blower type etc.), sponge or soft cloth.

### WARNING!

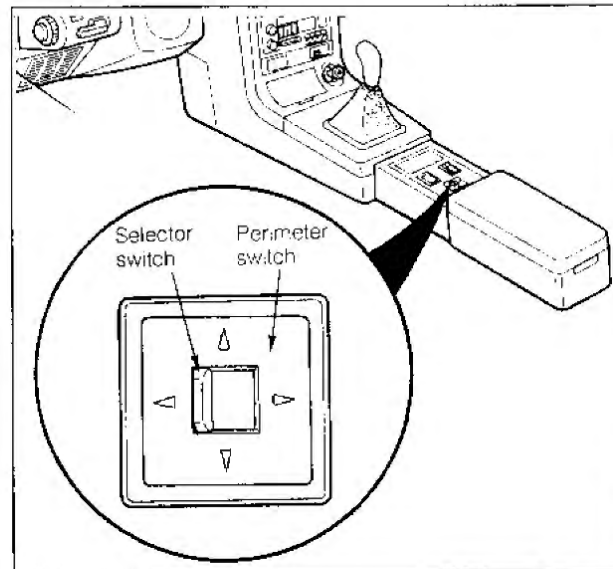
- Outside rearview mirrors are convex as noted on the face of the mirror. Objects seen in the mirror are closer than they appear. The mirror should be used carefully to estimate distances of following vehicles when changing lanes.
- Use your inside mirror (or glance rearward) to determine the size and distance of objects seen in the convex mirror.

The power outside rearview mirror switch is located on the center console panel. This switch controls the adjustments for both right and left outside rearview mirrors. To adjust the position of either mirror:

1. Move the selector switch to the right or left to activate the adjusting mechanism for the corresponding door mirror.
2. Adjust the mirror angle by depressing the appropriate perimeter switch as illustrated.

### CAUTION

The mirrors stop moving when they have reached the maximum adjusting angles, but the motor continues rotating while the switch is on. Do not leave the switch on for unnecessary lengths of time.



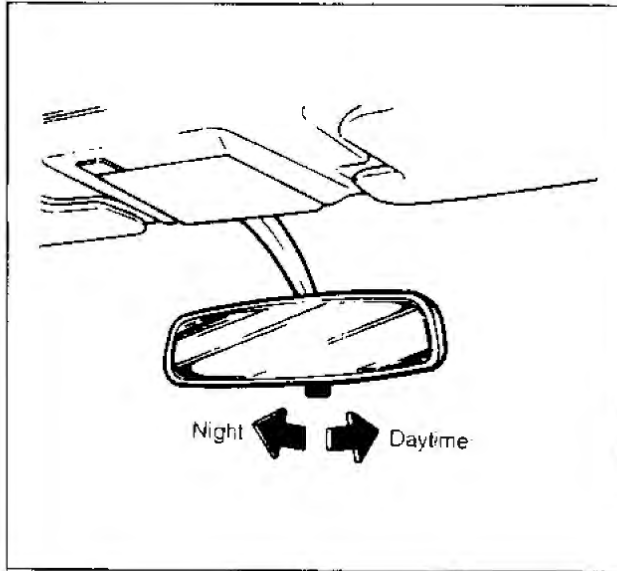
97U2-0350E

## DAY-NIGHT REARVIEW MIRROR (if equipped)

Push the lever forward for daytime driving.  
Pull the lever back for night driving.

### NOTE

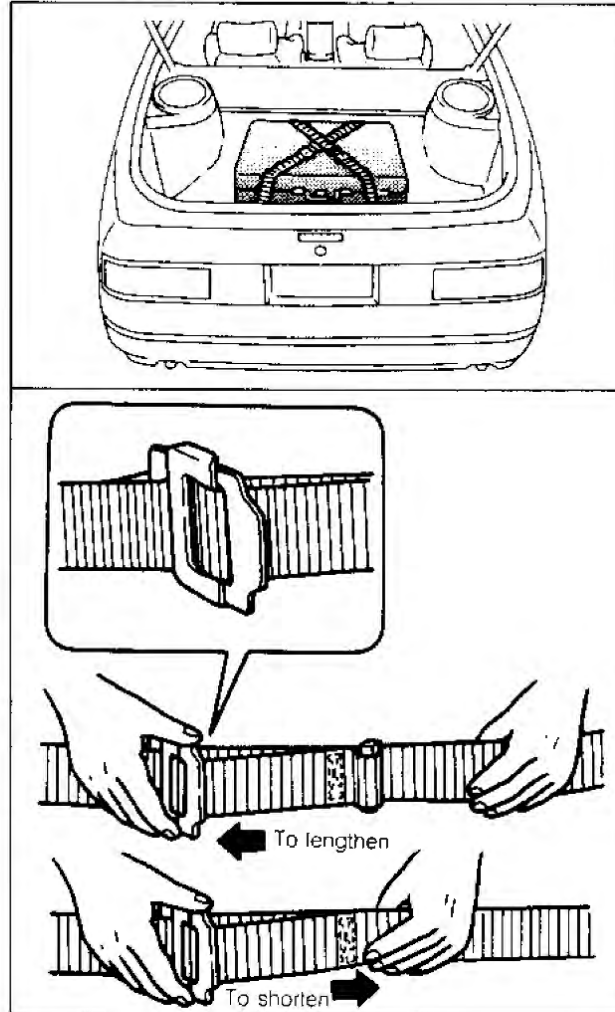
Remember that you lose some rearview clarity by reducing glare in the night position.



87U2-0360E

## LUGGAGE STRAPS (Except convertible top models, if equipped)

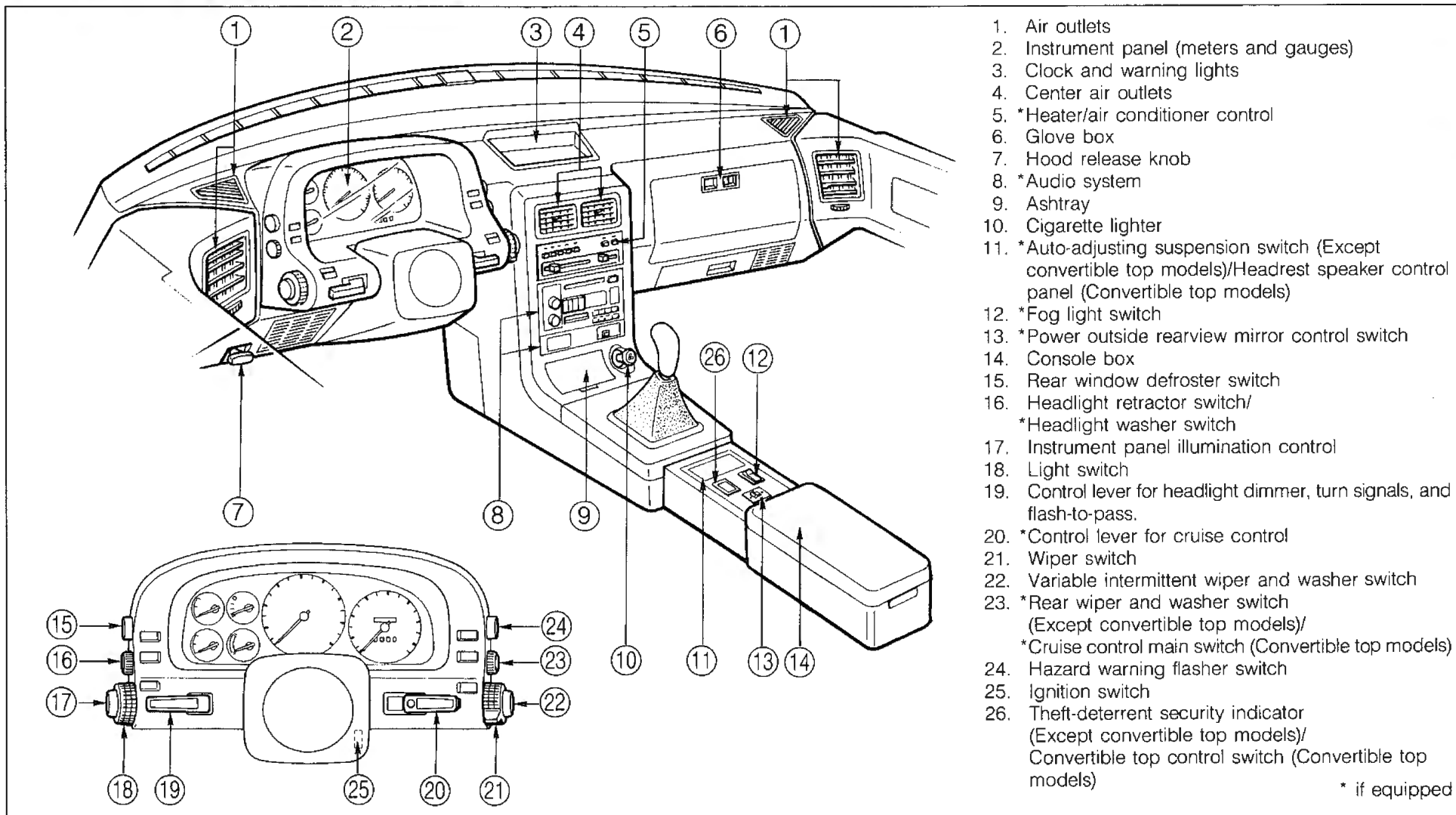
There are straps in the luggage space to secure luggage while travelling.



# 3. STARTING AND OPERATING

07U3-0010E

## INSTRUMENTS AND CONTROLS



# STEERING COLUMN AND SHIFT CONTROLS

## IGNITION SWITCH AND ANTI-THEFT STEERING COLUMN LOCK

**LOCK** . . . . Steering locked (when key is removed), electrical systems inoperative. The key can be removed or inserted in this position.

To remove the key  
(Manual transmission)

Turn it from ON to the ACC position, then push it in, turn it to the LOCK position and remove it.

(Automatic transmission)

With the selector lever engaged in P (Park), turn it from ON to the LOCK position and remove it.

**ACC** . . . . . Steering unlocked, electrical accessories operative.

**ON** . . . . . Steering unlocked, electrical accessories, ignition system operative.

**START** . . . Starts engine.

If difficulty is experienced in turning the ignition key, turn the steering wheel right and left while turning the key to the ON position.

### (Manual transmission)

Always remember to give the key a slight push inward when turning the ignition off. If the switch seems to be off and yet the key cannot be removed, the switch may still be in the ACC position. Try giving a slight push inward and turning the key all the way back toward the LOCK position. The key should now be free for removal.

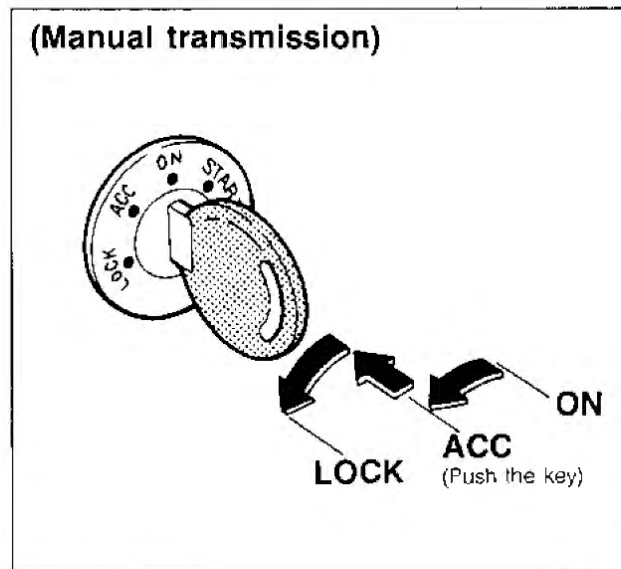
### (Automatic transmission)

**The ignition key cannot be removed unless the selector lever in the P (Park) position. If any other position, the key cannot be removed.**

If the switch seems to be off and yet the key cannot be removed, the switch may still be in the ACC position, or the selector lever may not be in P. Shift the selector lever to P and turn the ignition switch to the LOCK position. The key should now be free for removal.

### **WARNING!**

- Do not turn the key to the LOCK or ACC position while the vehicle is moving.
- The anti-theft steering column lock is not a substitute for the parking brake. Before leaving the driver's seat you should always make sure the transmission is in 1 (First) with a manual transmission or P (Park) with an automatic transmission, set the parking brake fully AND shut off the ignition. Unexpected and possibly sudden vehicle movement may occur if these precautions are not taken.
- Never reach for the switch through the steering wheel. The steering wheel could suddenly turn, causing serious injury.



## CAUTION

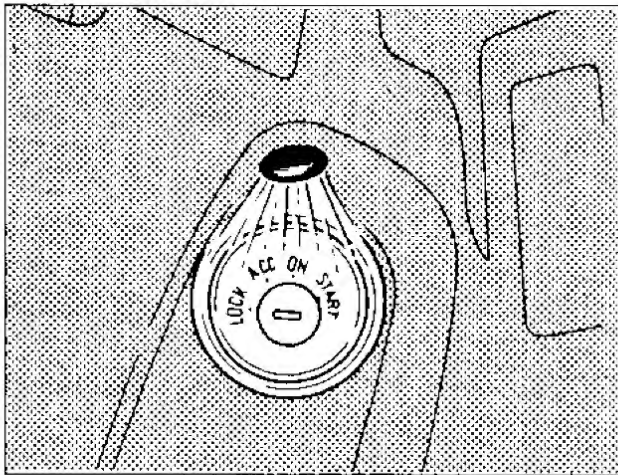
- If your vehicle is equipped with power steering, never hold the steering wheel against the stops (extreme right or left turn) for more than five seconds. If you hold the wheel against the stops longer than five seconds, the power steering pump could be damaged.
- Do not leave the key in the ON position if the engine is not running. The battery will discharge.

87U3 0040E

## IGNITION SWITCH ILLUMINATION (if equipped)

To assist key insertion at night, with the driver's door opened, the ignition switch illumination comes on.

The illumination goes out within a given time after the door has been closed.



97L3 0050E

## BEFORE STARTING ENGINE

1. Fasten the seat belt
2. Make sure the parking brake is applied.
3. **Manual Transmission** — Depress the clutch pedal fully and shift the transmission select lever into NEUTRAL. Hold the clutch pedal depressed while cranking the engine.

**Automatic Transmission** — Place the transmission selector lever in a P (Park) or N (Neutral).

## NOTE

**The starter will not operate if...**

1. The selector lever is NOT in P (Park) or N (Neutral) for automatic transmission.
2. The clutch pedal is not pushed down fully with manual transmission.

97L3 0060E

## TIPS ON STARTING

### ENGINE COLD

1. Turn the ignition key to the ON position.
2. Turn the ignition key to the START position and hold it until the engine starts (a maximum of ten seconds), and then release the ignition key.

## NOTE

To aid in warming-up the engine, the engine speed is automatically set to 2,500 ~ 3,000 rpm for about 20 seconds after starting the engine.

3. After about 15 seconds from engine starting, the engine speed should be reduced by slightly depressing the accelerator pedal and releasing it.
4. Be sure that the engine speed is reduced. You are ready to drive.

### ENGINE WARM

1. Turn the ignition key to the ON position.
2. Turn the ignition key to the START position and hold it until the engine starts, and then release the ignition key.

## NOTE

If the engine fails to start using the normal procedures, it may be that the engine is flooded (has excessive fuel in the cylinders). If this is case, follow the starting procedure outlined below.

1. Depress the accelerator fully and hold it.
2. While holding the accelerator pedal fully depressed, turn the ignition switch to the START position and hold it (a maximum of ten seconds; cranking) to discharge the excess fuel.

If the engine starts, the engine speed will increase suddenly; release the ignition key and the accelerator pedal immediately. In this case, the following procedures are not necessary.

3. Release the accelerator pedal after cranking the engine.
4. Without depressing the accelerator pedal, crank the engine until it starts (a maximum of ten seconds).

## CAUTION

Do not keep the starter engaged for more than ten seconds. If the engine stalls or falters in starting, wait five to ten seconds before reengaging the starter. Otherwise the starter may be damaged.

## NOTE

For easier starting, the headlights should be off.

B7U3 0065E

## A WORD ABOUT THE TURBOCHARGER (if equipped)

Mazda's RX-7 turbocharger greatly enhances engine power and is an advanced unit in both design and operation. To get maximum performance from your turbocharger, take note of the following tips:

1. Make sure to change engine oil and filter every 5,000 miles (8,000 km)/5 months (Normal Driving Condition) or 3,000 miles (5,000 km)/3 months (Unique Driving Condition). Refer to Section 6 of this manual for the details.
2. Use only engine oil with API Service SF rating. The use of extra additives is NOT recommended.
3. After a drive at freeway speeds or after ascending a long hill, take 30 seconds or more to allow the engine to idle and cool the turbo before turning it off. Avoid simply cutting the engine off abruptly after a hard or long drive.
4. Watch the turbo boost meter in your gauge cluster and get to know how it operates. Remember that if the indicator shows more boost than the highest amount on the meter, stop the vehicle or slow down to a point where the boost drops back to normal. Continuing to drive under this overboost condition can dam-

age engine components, so contact your Authorized Mazda dealer immediately to have the problem corrected. (See page 3-23 for boost meter information)

5. Do not race or over-rev your engine when starting. This should never be done on ANY engine, but especially not on a turbocharged engine.
6. Be sure to keep the hood scoop for the intercooler free of leaves and debris. Do not block off the scoop since it provides air for the turbo intercooler.

07U3-0070E

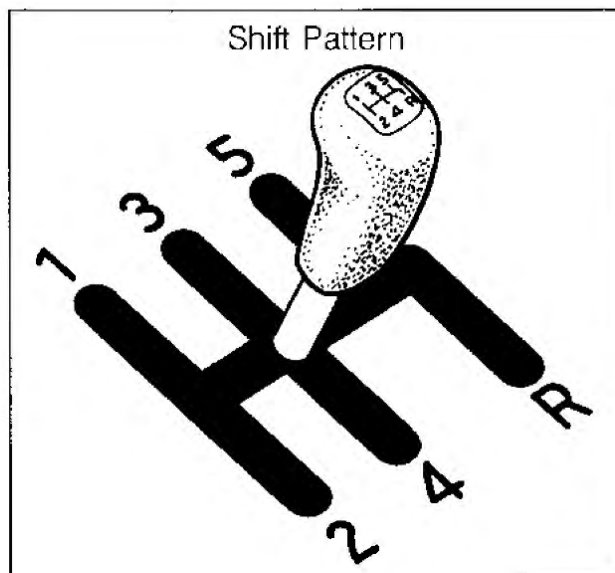
## MANUAL TRANSMISSION OPERATION

### NOTE

A special safety feature prevents inadvertently shifting from 5th to R (Reverse). Shift lever must be returned to NEUTRAL position (as shown) before Reverse gear can be engaged.

### CAUTION

To avoid premature clutch wear and damage, do not drive with your foot resting on the clutch pedal, or use the clutch to hold the vehicle at a standstill on an upgrade, as when waiting for a traffic light.



97U3-0080E

## SHIFT POINT RECOMMENDATIONS

For normal accelerations, the following shift points are recommended:

First to Second		15 mph (24 km/h)
Second to Third		25 mph (40 km/h)
Third to Fourth	Non-turbo models	38 mph (61 km/h)
	Turbo models	40 mph (64 km/h)
Fourth to Overdrive (Fifth)		45 mph (72 km/h)

## AUTOMATIC TRANSMISSION OPERATION (ELECTRONICALLY CONTROLLED)

Automatic transmission is electronically controlled by micro-computer, and is equipped with a hold switch. Also, for your safety, this model has shift-lock system.

### SHIFT-LOCK SYSTEM

For your safety, an **Automatic Transmission has SHIFT-LOCK**, which prevents shifting the transmission out of the **P (Park) position without the brake pedal being depressed**.

To shift the transmission out of the P (Park) position:

1. Depress and hold the brake pedal.
2. Start the engine.
3. Move the selector lever.

### NOTE

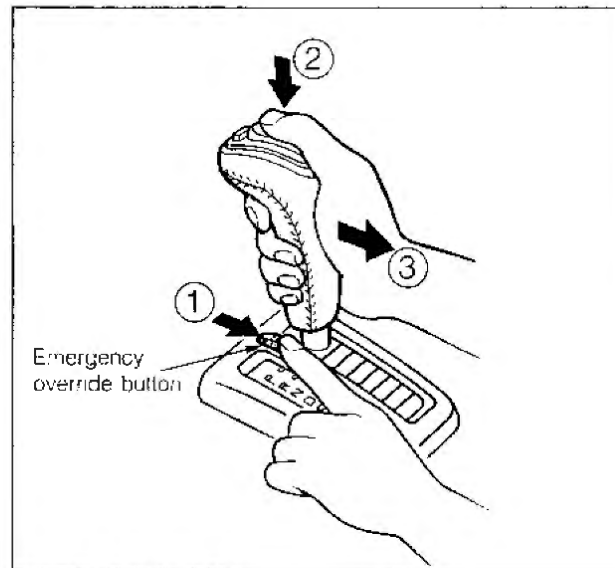
- When the ignition key is in the ACC or LOCK position, the transmission cannot be shifted from the P position.
- If the brake pedal is repeatedly depressed and released with the selector lever in the P position, a chattering near the selector lever may be heard. This is not a malfunction.

To make the system doubly effective, **the ignition key cannot be removed unless the selector lever is in the P position. If any other position, the key cannot be removed.**

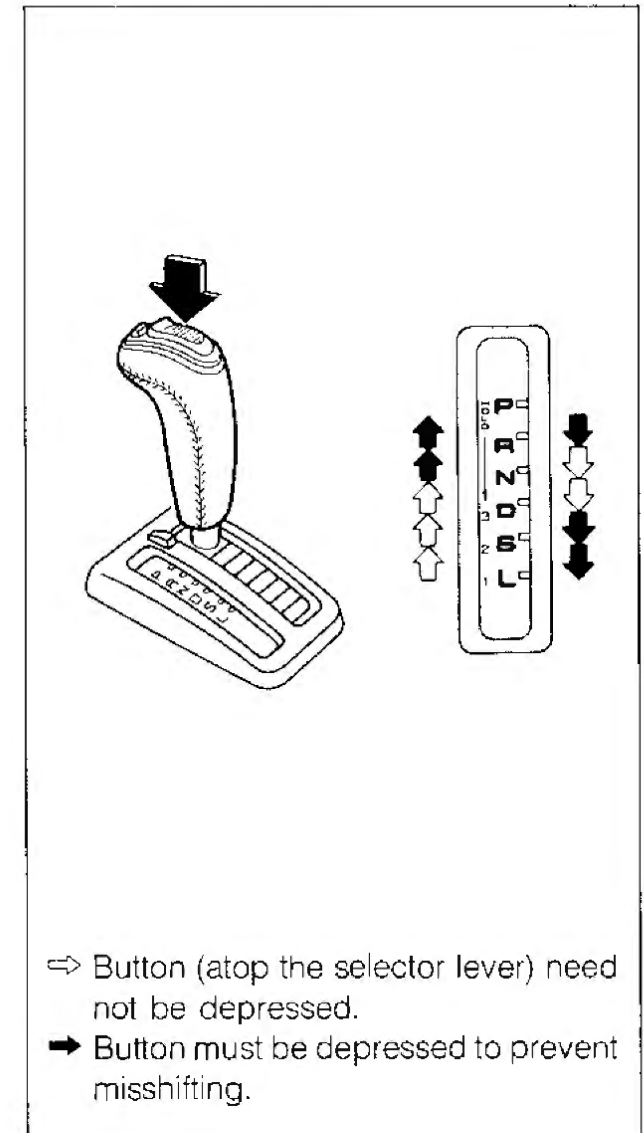
### Emergency override button

If the selector lever should fail to move from the P position with the brake pedal depressed, continue depressing the brake...

1. Slide back and hold the emergency override button on the shift console.
2. Push and hold the large button atop the selector lever.
3. Move the lever.



All normal driving is done with the selector lever in the D position.



## NOTE

For smooth operation, depress the brake pedal when shifting from N (Neutral) to a forward or reverse position.

## CAUTION

- Shift into R or P only when the vehicle has come to a complete stop.
- Do not accelerate the engine in reverse or any of the forward positions while the brakes are applied.
- When stopped on an upgrade, do not hold the vehicle with the engine power. Depress the brake pedal.
- Do not shift from N or P into reverse or any of the forward positions when the engine is above idle speed.

## Engine starting

The selector must be in P or N position, otherwise the starter will not operate.

## NOTE

For extra power when passing another vehicle or climbing steep grades, depress the accelerator fully, at which time the transmission will shift down into the next lower gear.

## Moving up steep grade from standing start

To move up a steep grade from a standing start, depress the brake pedal, shift the

selector lever to D, S or L, depending on load weight and steepness of the grade then release the parking brake.

Depress the accelerator pedal gradually with your right foot while releasing the brake pedal.

## P (Park)

This position locks the transmission and prevents the rear wheels from rotating.

Use only when the vehicle is completely stopped.

## WARNING!

Do not use the P position in place of the parking brake.

Always make sure the selector lever is latched in P by checking to see that it cannot be moved unless the selector button is pushed. Also SET THE PARKING BRAKE FULLY.

Turn off the ignition when you leave the vehicle, even momentarily. Never leave the vehicle unattended while the engine is running. Unexpected and possibly sudden vehicle movement may occur if these precautions are not taken.

## R (Reverse)

This position allows the vehicle to move backward.

## N (Neutral)

For standing (brakes applied). The wheels and transmission are not locked.

## D (Drive)

This is the normal driving position, and the transmission will automatically shift through a four-gear sequence, providing best economy and power.

## S (Second)

Manually shift the selector lever to this position for driving in heavy, slow-moving traffic, when climbing hills or for braking assist when going down hills.

## L (Low)

Shift the selector lever to this position in hard-pulling situations and for climbing and descending very steep grades.

## NOTE

### SHIFT UP PATTERNS (WITHOUT HOLD ENGAGED)

**D = 1st, 2nd, 3rd, 4th**

**S = 1st, 2nd, 3rd**

**L = 1st, 2nd**

## HOLD MODE

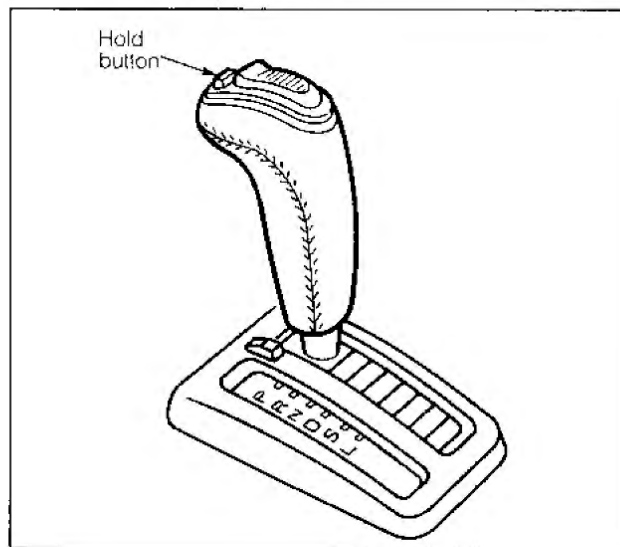
This system stops the automatic speed change operation, and has three defined positions: third (3) in D, second (2) in S, and first (1) in L.

Use this system when starting the vehicle from a complete stop on slippery surfaces like snowy, slushy, or muddy roads, or when driving up steep inclines, or for braking assist when going down hills.

Pushing the hold button activates the hold mode. Pushing the button again deactivates this mode.

## NOTE

When the engine is started, the hold mode is automatically released.



## D (Drive)

The transmission is held in third (3). When stopping, however, the transmission automatically downshifts to second (2) then back to third (3) for smoother acceleration.

## S (Second gear)

The transmission is held in second (2). Do not exceed 75 mph (120 km/h) in the S position.

## L (Low gear)

The transmission is held in first (1). Do not exceed 40 mph (65 km/h) in the L position.

## NOTE

### SHIFT UP PATTERNS WITH HOLD ENGAGED

- D-Hold = 3rd (Momentary 2nd for standing start)
- S-Hold = 2nd (Fixed)
- L-Hold = 1st (Fixed)

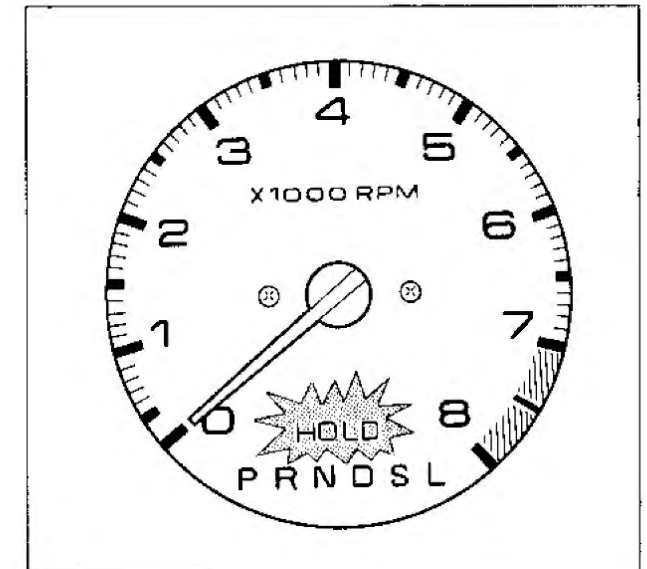
## Hold Indicator Lamp

This indicator illuminates when the hold mode is selected.

## CAUTION

If this indicator flashes, it signifies an electrical problem in the transmission.

If this occurs, have the vehicle checked by your Authorized Mazda Dealer as soon as possible.



## SUGGESTIONS FOR ECONOMICAL OPERATION

Your vehicle's fuel economy is mainly dependent on your style of driving, how you drive, where you drive and when you drive. These have an effect on how many miles (kilometers) you can get from a gallon (liter) of fuel. To operate your vehicle as economically as possible, use the following driving suggestions to help save money in both fuel and repairs:

- Never turn off the engine to coast down hills. Your power steering and brake booster will not function without the engine running. Instead, downshift to an appropriate gear to utilize engine braking effect.
- You can save fuel by avoiding fast starts.
- Keep your engine in tune and follow the recommended periodic maintenance schedule. This will increase the life of all parts and lower operating costs.
- Use the air conditioner (if equipped) only when necessary.
- Slow down when driving on rough roads.
- Always keep your tires inflated to the recommended pressure for longer tire life and fuel economy.

- Keep your distance from other vehicles to avoid sudden stops. This will reduce wear on brake linings and save fuel, as extra fuel is required to accelerate back to driving speed.
- Do not carry unnecessary weight in the vehicle.
- Do not rest your foot on the brake pedal while driving. This cause needless wear and possible damage to the brakes and poor fuel economy.
- Improper wheel alignment will cause the tires to roll at an excessive angle, which will result in faster tire wear. It takes more power to overcome this improper alignment which, in turn, wastes fuel.
- Open windows at high speed can lessen fuel economy. Also, fuel economy is less when driving in crosswinds or headwinds. To help offset some of this loss, slow down when driving in these conditions.

Keeping a vehicle in good operating condition is important both for economy and safety. Therefore, have your Authorized Mazda Dealer perform scheduled inspections and maintenance.

## CRUISE CONTROL (if equipped)

The cruise control system allows you to automatically control the speed of your vehicle above approximately 25 mph (40 km/h). To activate the system, push the MAIN switch (see below). To deactivate, push the switch again.

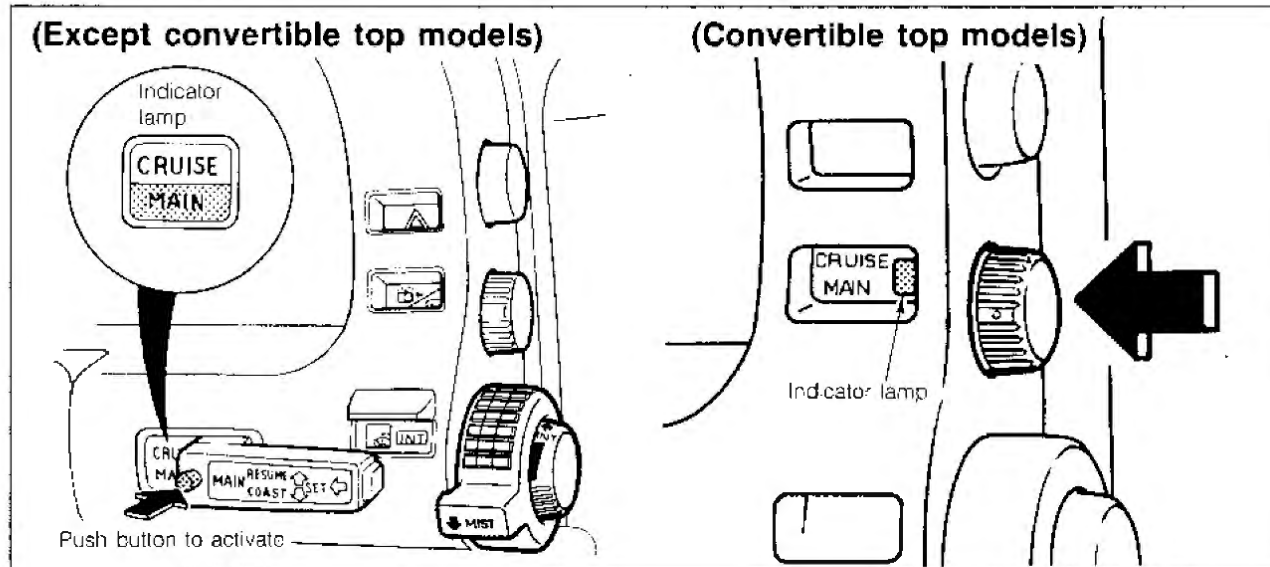
### NOTE

The indicator lamp comes on when the MAIN switch is pushed in.

### WARNING!

(Except convertible top models)

Never reach through the steering wheel to operate the MAIN switch.



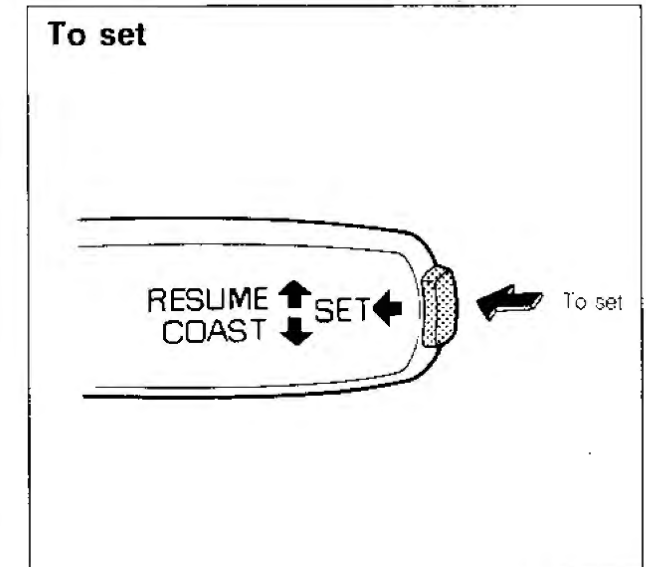
### To set the desired constant vehicle speed:

1. Accelerate to the desired cruising speed (must be above 25 mph, 40 km/h).
2. Momentarily press the SET button located on the end of the control lever. Do not hold the SET button in.
3. Release the accelerator pedal and the vehicle speed will be automatically maintained.

### To cancel cruising speed:

- Push the MAIN switch to deactivate (turn off) the cruise control system, or;
- Slightly depress the brake pedal or clutch pedal (on manual transmission vehicles), or;
- Shift into N (on automatic transmission vehicles), or;
- The cruise control system will automatically cancel if the vehicle slows down to approximately 9 mph (15 km/h) below the pre-set speed.

In addition, the system is turned off each time when the ignition is turned off.



**NOTE FOR AUTOMATIC TRANSMISSION MODELS:**

Cruise control works in conjunction with overdrive on automatic transmission models. When the vehicle is being driven in overdrive and the SET button is pressed, the flipper pushed to RESUME or the vehicle speed drops below the preset speed, the transmission will automatically downshift to drive (D) range for smooth acceleration. The transmission will again upshift to overdrive when the vehicle speed increases the approximately the pre-set speed.

**NOTE**

The indicator lamp comes on when the vehicle is in the cruise control mode and it turns off when the cruise control mode is cancelled.

**To increase cruising speed:**

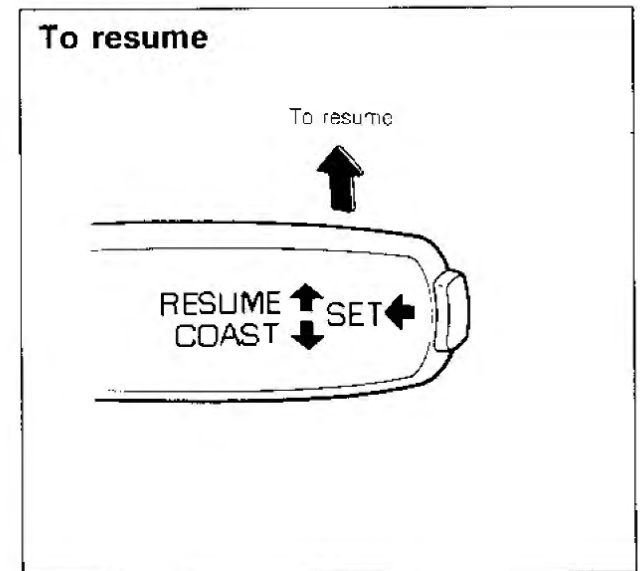
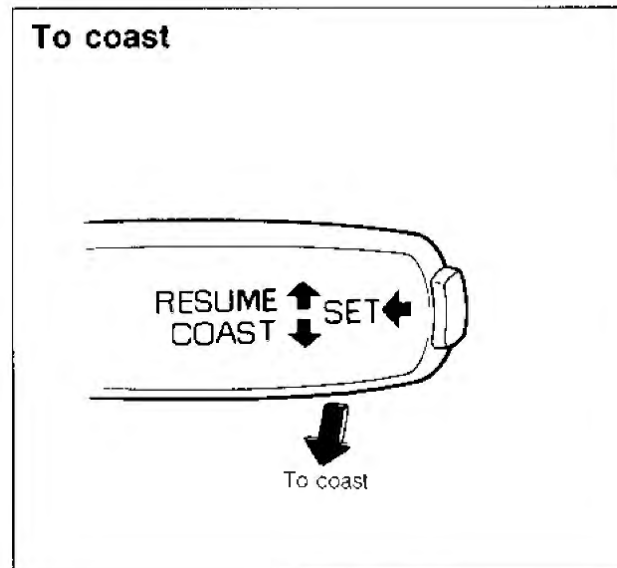
1. Push the SET button and hold it. Vehicle speed will increase at a controlled rate.
2. Release the button when the desired speed is reached.

**To decrease cruising speed:**

1. Move the control lever downward to the COAST position and hold it.
2. The vehicle will gradually slow down. When the desired speed is reached, release the lever. The new cruising speed will be maintained.

**To resume cruising speed at above 25 mph (40 km/h)**

If the cruising speed has been cancelled by some method other than by using the MAIN switch (i.e., the system is still activated), the last preset cruising speed can be resumed by moving the control lever upward to the RESUME position and then releasing it. The vehicle speed will gradually increase and will automatically resume the last preset speed. Note, however, that the last preset cruising speed cannot be resumed if the vehicle speed drops to less than 25 mph (40 km/h).



## NOTE

- When driving with the cruise control system in use, you may accelerate your vehicle for passing another vehicle as you normally would, by pressing the accelerator. When you release the pedal, the cruise control will return your vehicle to the pre-set speed.
- A slight speed change may occur when going up or down steep hills, even though the cruise control is engaged.

## WARNING!

Do not use the cruise control system in conditions such as heavy or varying traffic, or on slippery or winding roads.

## CAUTION

A flashing cruise indicator lamp indicates a possible malfunction in the cruise control system. Have the vehicle checked by an Authorized Mazda Dealer.

67U3-0190E

## LIGHTING AND TURN SIGNALS

### 1. LIGHTING CONTROL

To operate the lights, twist the large dial as indicated below:

#### First click stop (≡DCE):

Parking, license, tail, side marker, and instrument panel lights come on.

#### Second click stop (≡O):

Headlights rise; low beam headlights, parking, license, tail, side marker and instrument panel lights come on.

### Headlight beam control

With the headlights on, the high or low beams are selected alternately, each time the lever is pulled toward the driver.

The high beam indicator illuminates in blue when the headlight high beams are switched on.

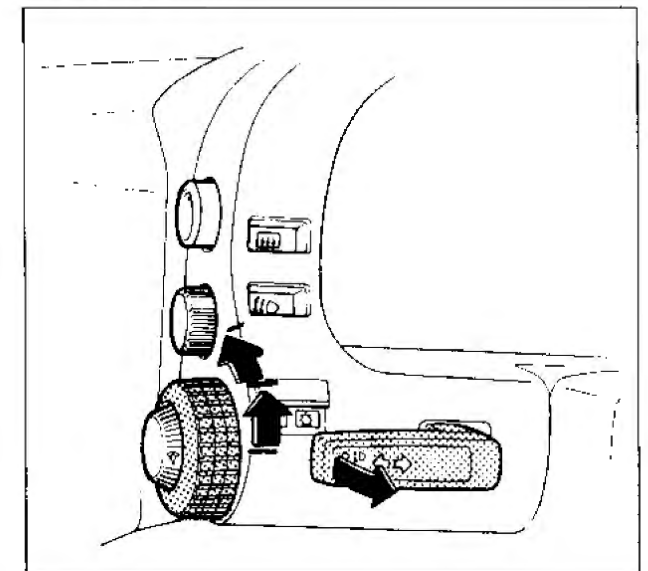
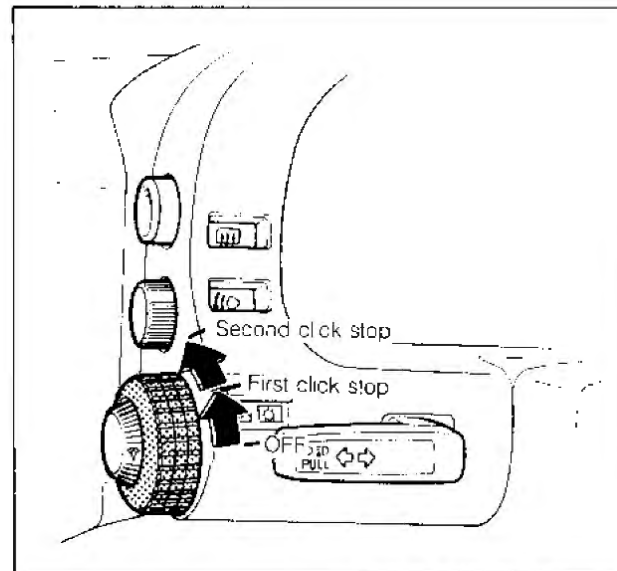
97U3-0150E

### LIGHTS REMINDER

If you forget to turn off the lights when stopping the engine, the reminder beep will sound as soon as a door is opened.

## NOTE

This beep sound is same as ignition key reminder beep.



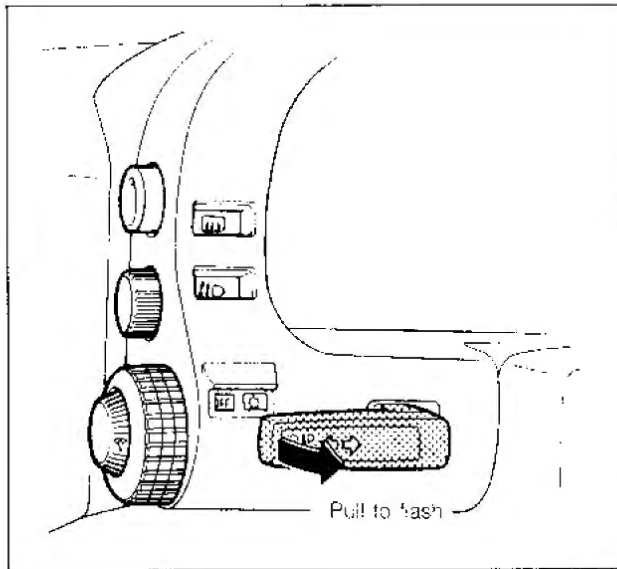
### Flash-To-Pass System

This system enables you to quickly flash your headlights to signal your intent to either pass a slower vehicle or to get the attention of vehicles approaching from ahead.

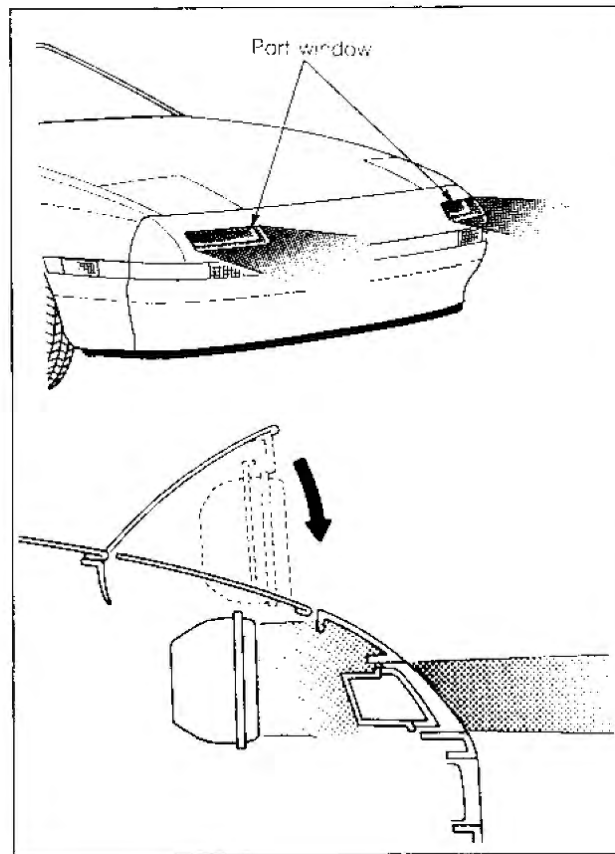
Flash-to-pass simply by jiggling the turn signal toward you, using a fluttering motion with your left fingers.

The lights can be flashed with the headlights either open or closed.

- To flash the lights with the headlights open and the low beam headlights on, pull the control lever towards you twice. This will engage high beam momentarily and then return the lights to low beam.



- To flash the lights with the headlights closed, pull the control lever fully toward you. The headlights will come on as shown below, until the lever is released.



67L03-0140E

### CLEANING THE PASSING PORT WINDOWS

To clean the inside face of the passing port windows, raise the headlights with the headlight retractor switch, then open the hood. Clean the port windows with a soft cloth and clear water.

#### **WARNING!**

To avoid personal injury that might occur due to accidental lowering of the headlights while you are cleaning the port windows, remove the proper 30A main fuse (see page 3-15). You may also disconnect the negative battery instead of removing the fuse. Remember that station settings memorized on the radio will be erased if the battery is disconnected.

## 2. TURN AND LANE-CHANGE SIGNALS

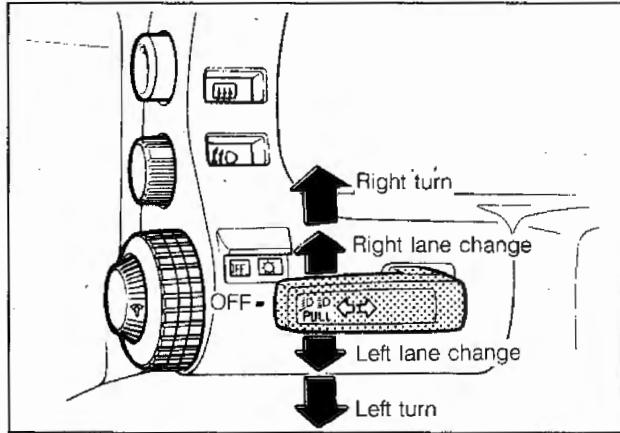
### Turn Signals

#### (Except convertible top models)

Move the lever up or down to the stop position to engage the turn signals. The turn signals will self-cancel after the turn is completed. If the signals continue to flash after making a turn, manually return the lever to its original position.

#### (Convertible top models)

Move the lever up or down fully to engage the turn signals; the lever will automatically return to its original position when you release it, and, the signals will flash. The turn signals will self-cancel after the turn is completed. If the turn signals need to be cancelled manually, move the lever slightly to the opposite position. If moved fully to the opposite position, the opposite side turn signals will flash.



### Lane-Change Signals

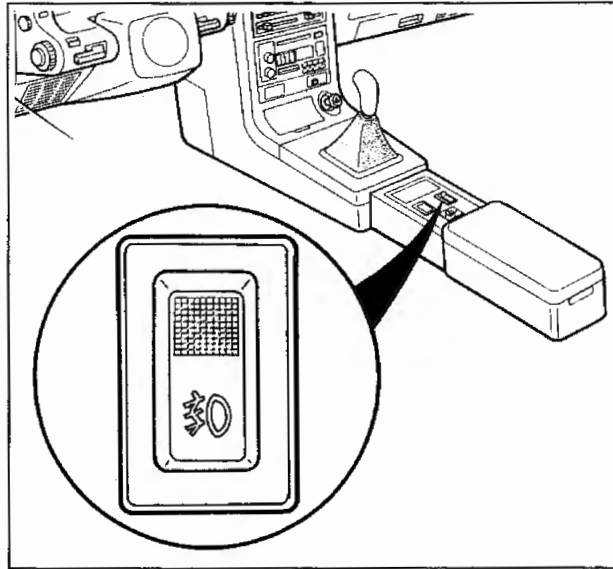
Move the lever part way and hold it there. The lever will return to the OFF position when it is released.

## FOG LIGHT (if equipped)

When, with the headlights ON at the low-beam setting, the fog light switch is pressed, the fog lights will illuminate.

(The fog lights are switched OFF at the high-beam setting, or when the flash-to-pass system is used.)

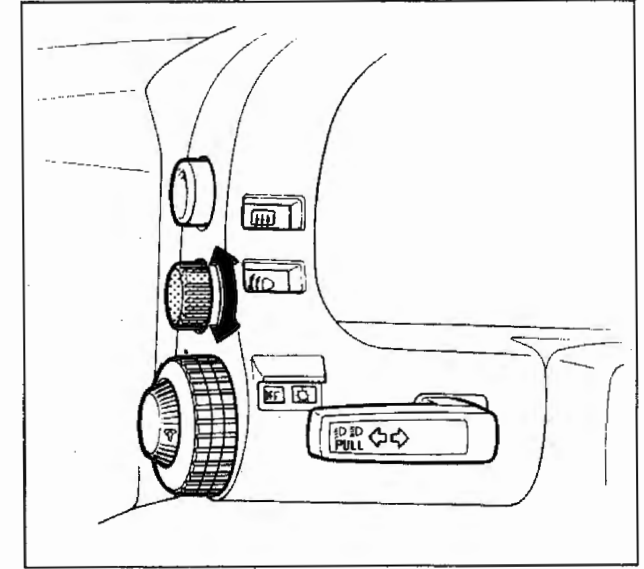
When the fog light switch is pressed again, the fog lights are switched OFF.



## HEADLIGHT RETRACTOR

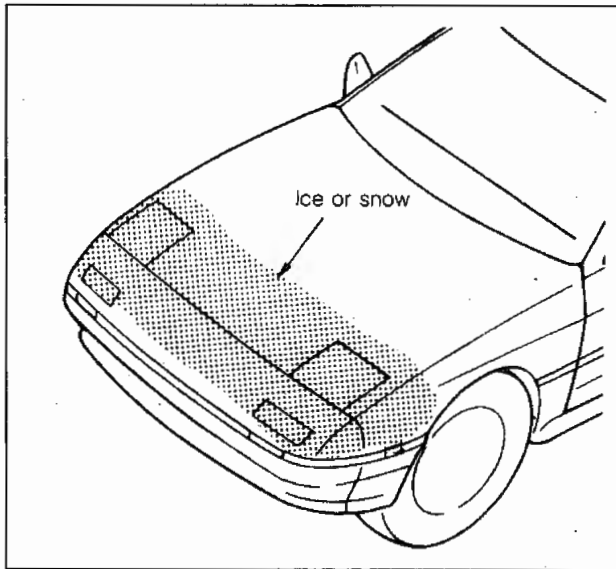
For convenience sake, an independent headlight retractor switch (the headlights do not turn on) is provided. The switch can be operated with the ignition switch on or off. Turn the switch to open the headlights when it is necessary for ...

- Washing the vehicle
- Preventing the headlights from freezing during the night
- Repairing a headlight

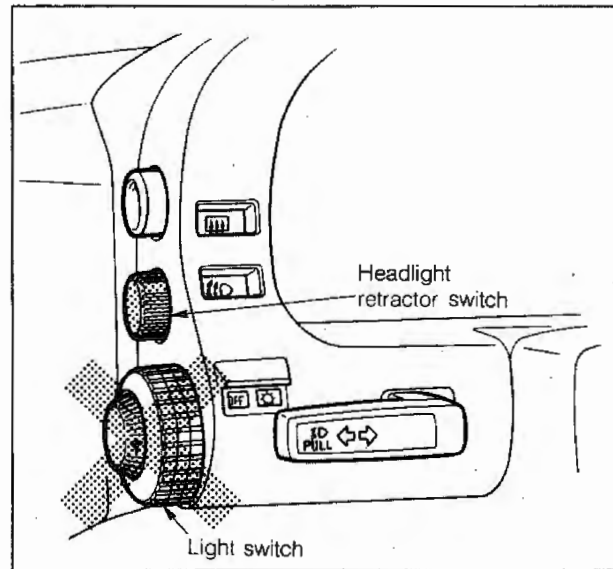


## CAUTION

- It is possible, (during very cold weather or while driving on a snow-covered road,) that the headlight retractor mechanism and the area around the headlight cover might become frozen. If this trouble occurs, do not try to raise or lower the headlights because trying to force the headlights up or down in this way might cause damage to the headlight retractor mechanism. It might also cause the battery to become discharged, or some other problem. Therefore, before attempting to raise or lower the headlights, be sure to first open the hood and break or than the ice.



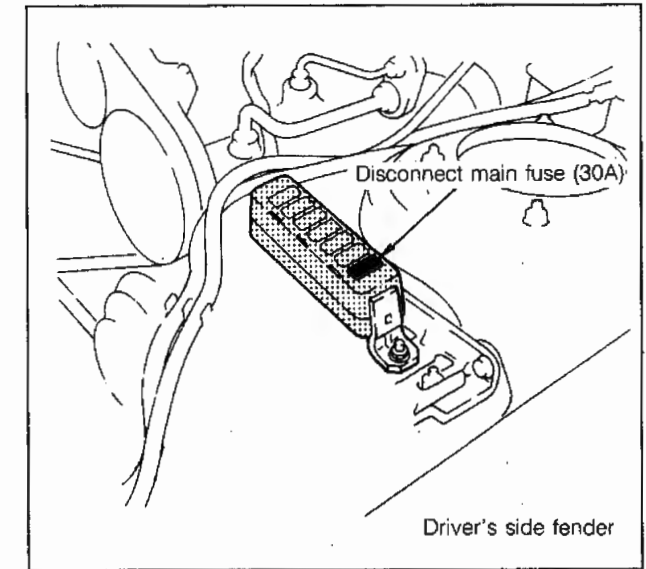
- We recommend that the headlights be kept in the raised position for parking and driving under very cold weather. To raise the headlights, only use the headlight retractor switch, do not use the light switch.
- If a pebble, piece of ice, etc. gets lodged in a headlight and prevents it from opening or closing while the switch is being operated, perform the following steps:
  1. Disconnect either the negative (-) battery terminal or the first (30A) main fuse.
  2. Dislodge the obstruction.
  3. Re-connect the battery terminal or main fuse.



4. Check the headlight retractor operation. (Remember the radio station settings may be erased if the battery is disconnected.)

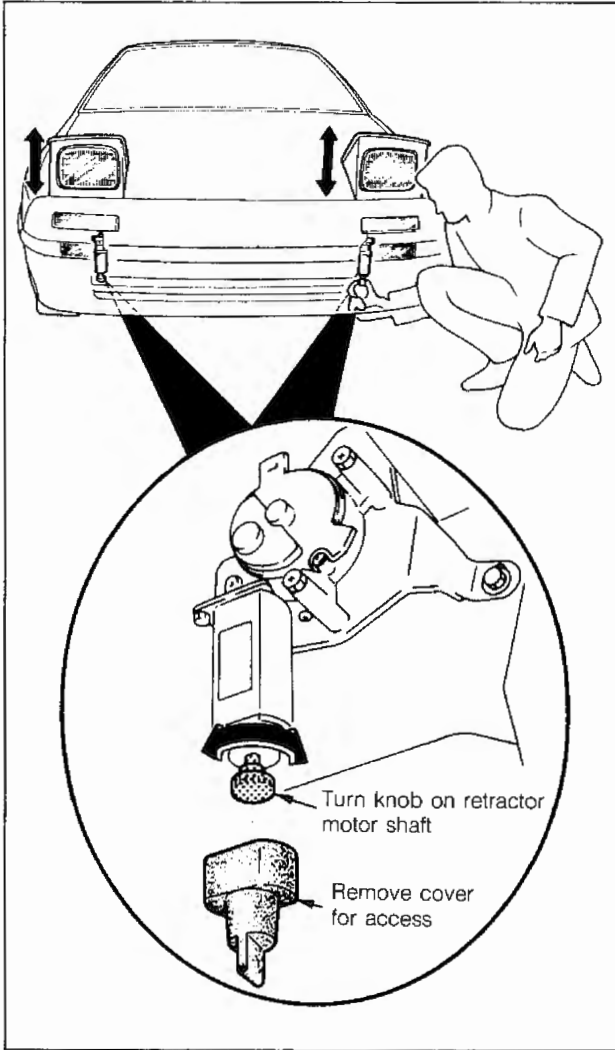
## NOTE

In emergencies, the headlights may be set in the opened or closed position manually. First disconnect the (30A) main fuse marked RETRACTOR. This fuse is closest to the outside of the driver's side fender. Then, remove the cover for each light (see illustration) and turn the knob on the retractor motor shaft until the headlight is fully opened or closed as illustrated below right.



**WARNING!**

Do not turn the knob if the (30A) main fuse is connected. The retractor motor may suddenly move and cause an injury.



97U3-0180E

**WINDSHIELD WIPER AND WASHER CONTROLS**

**1. WIPER**

To turn the wipers on, turn the large dial, as illustrated.

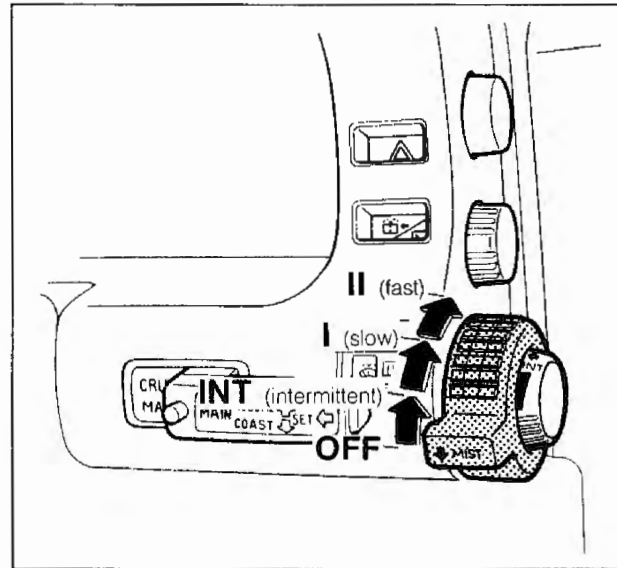
**INT** — Intermittent wiper operation (if equipped)

**I** — Slow wiper speed

**II** — Fast wiper speed

**CAUTION**

- To prevent possible damage to the wipers or windshield, do not operate the wipers when the windshield is dry.



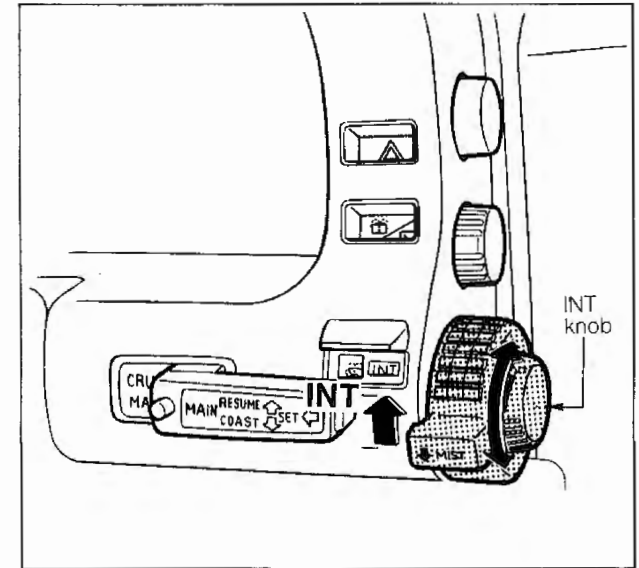
- To prevent damage to the wiper blades, do not use gasoline, kerosene, paint thinner, or other solvents on or near the wiper blades.
- To prevent damage to the wiper arms or other components, do not attempt to move the wipers manually.

97U3-0190E

**Variable-speed intermittent wiper**

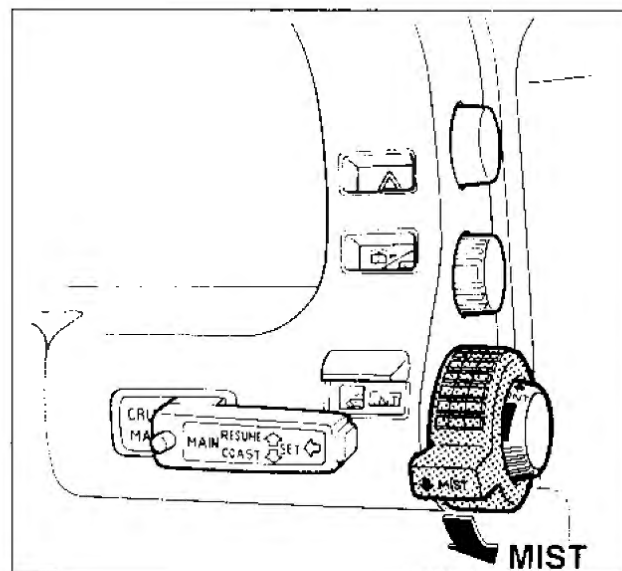
This feature operates the wipers at selected intervals. Such operation can be handy in conditions of light rain, etc.

Set the large dial to the INT position and choose the desired time delay interval for the wiper. Do this by turning the INT knob as illustrated.



**ONE-TOUCH MIST**

For a single wipe cycle, push the wiper dial downward to the MIST position and release it.

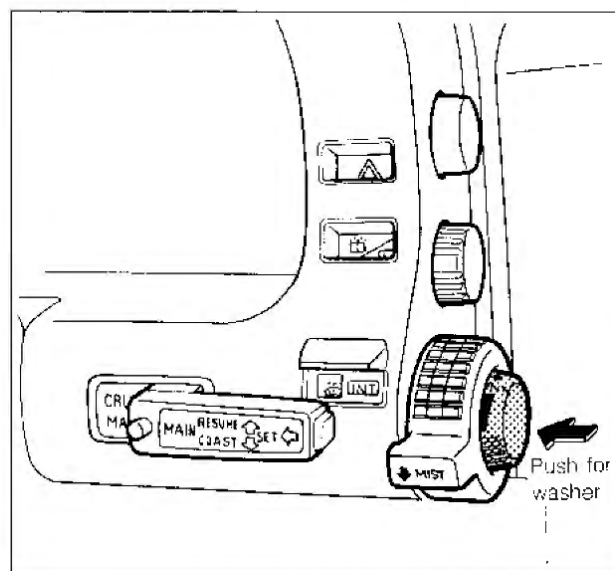
**WASHER**

To clean the windshield, push the washer button as illustrated, and hold it. Washer fluid is sprayed and the wipers are activated until the button is released.

If the washer does not work, check the washer fluid level, which may be low. If the fluid level is sufficient, consult your Authorized Mazda Dealer. (See page 6-12.)

**WARNING!**

Do not use the washers in freezing weather without first warming the windshield with the defrosters, otherwise the washer solution may freeze on the windshield and obscure your vision.

**CAUTION**

Do not operate the windshield washer when the washer fluid reservoir is empty to prevent possible damage to the washer pump system.

67U3 0220F

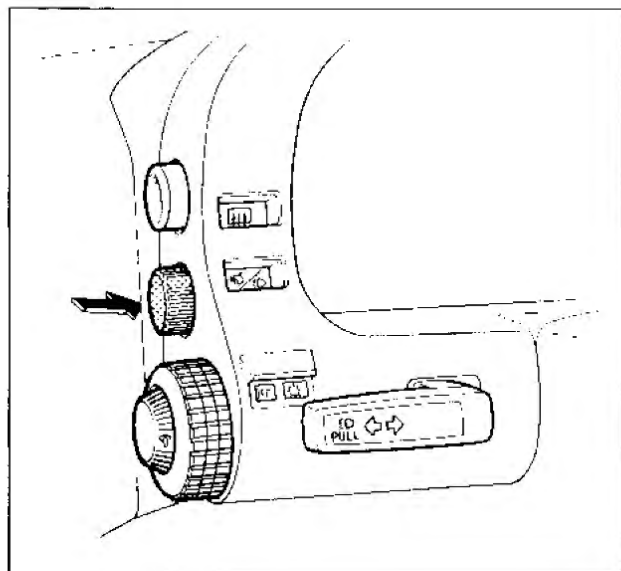
## HEADLIGHT WASHER (if equipped)

The headlight washer can only be used with the headlights in the open position.

With the ignition switch in the ON position, push the retractable headlights switch in, as illustrated below. Washer fluid will be sprayed onto the headlights until the switch is released.

### CAUTION

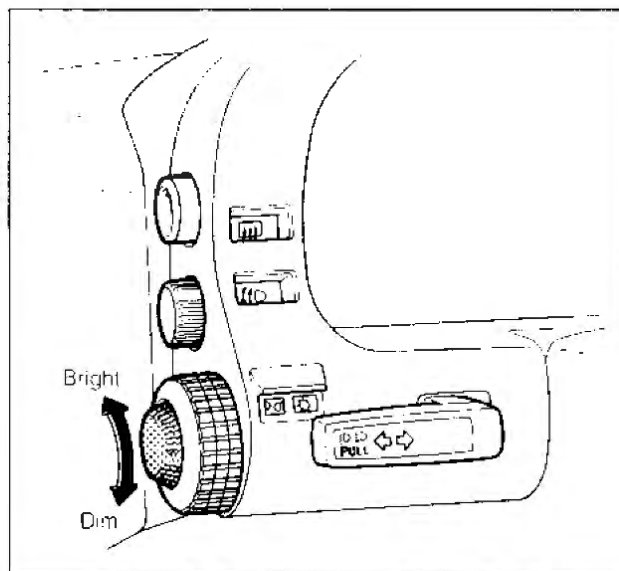
Do not operate the headlight washer for more than ten seconds at a time.



67U3 0230E

## INSTRUMENT PANEL ILLUMINATION CONTROL

Rotate the small dial to adjust the instrument panel illumination light brightness as illustrated below.



07U3 0240E

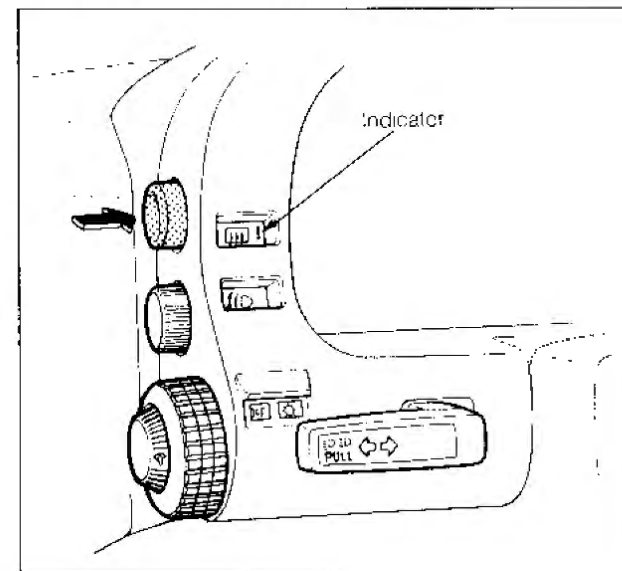
## REAR DEFROSTER

This defroster clears frost, fog, or thin ice from the interior and exterior of the rear window.

Start the engine before operating the defroster and if there is a heavy accumulation of snow on the rear window, brush it off. Depress the switch to operate rear window defroster.

### CAUTION

To prevent damage to the conductors, which are bonded to the inside surface of the rear window, never use sharp instruments or window cleaners containing abrasives to clean the inside of the rear window.



## NOTE

The rear defroster is switched off automatically after 15 minutes. To reactivate the defroster, simply push the switch again. The indicator light illuminates when the rear window defroster is operating.

07U3-0250E

## REAR WINDOW WIPER (Except convertible top models, if equipped)

To activate the rear window wiper, set the switch in the INT or ON position.

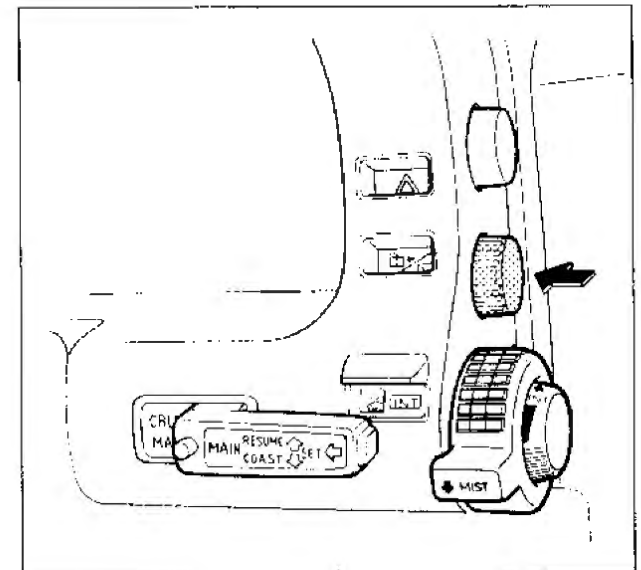
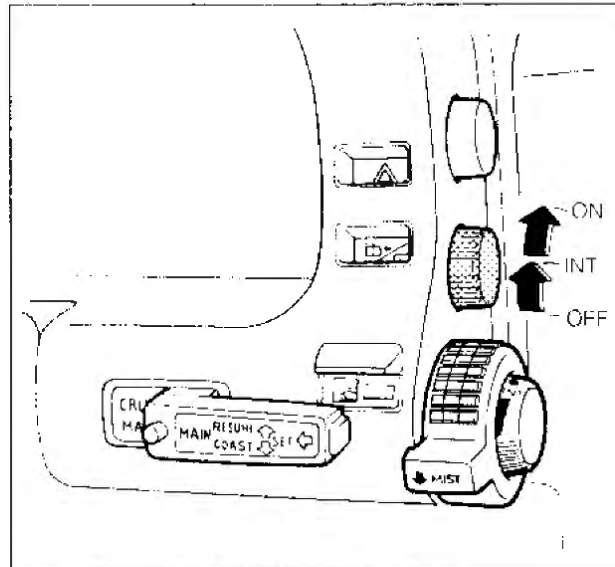
- INT** — Intermittent wiper operation
- ON** — Normal operation

07U3-0260E

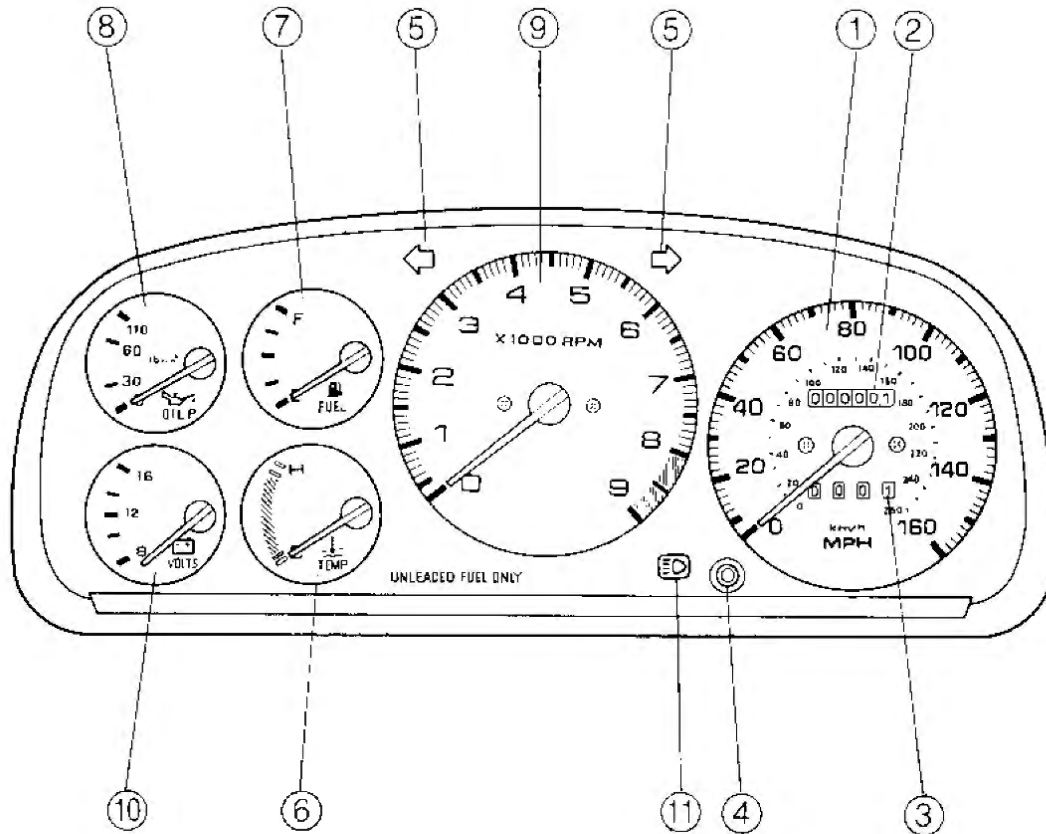
## REAR WINDOW WASHER (Except convertible top models, if equipped)

To clean the rear window, push the switch and hold it. Washer fluid is sprayed and the wipers are activated until the switch is released.

If the washer does not work, check the washer fluid level which may be low. If the fluid level is sufficient, consult your Authorized Mazda Dealer. (See page 6-12.)



# INSTRUMENT PANEL



1. Speedometer
2. Odometer
3. Tripmeter
4. Tripmeter reset knob
5. Turn signal/hazard warning flasher indicator
6. Water temperature gauge
7. Fuel gauge
8. Engine oil pressure gauge
9. Tachometer
10. Voltmeter or \*boost meter
11. High beam indicator

\* Turbo models

**1. SPEEDOMETER**

The speedometer indicates speed in miles (kilometers) per hour.

**2. ODOMETER**

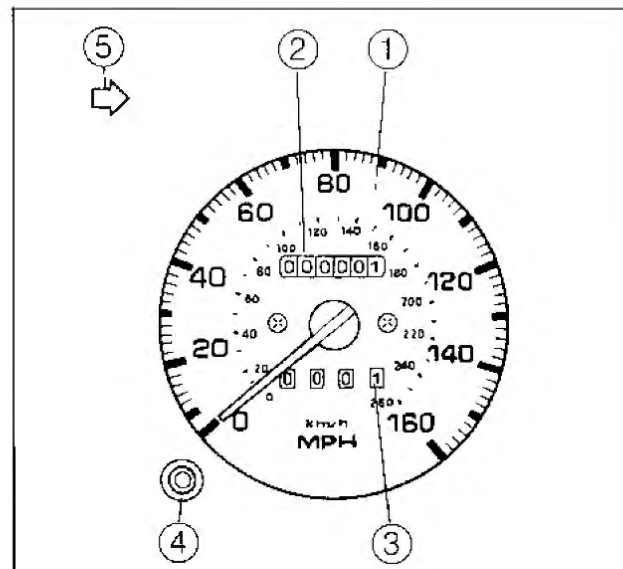
The odometer records the total distance the vehicle has been driven.

**3. TRIPMETER**

The tripmeter may be set to zero to record the distance on each trip.

**4. TRIPMETER RESET KNOB**

Simply push the knob to reset to zero.

**5. TURN SIGNAL/HAZARD WARNING FLASHER INDICATOR**

If the indicator flashes improperly, the signaling system is malfunctioning. Have this condition corrected as soon as possible.

Both turn signal indicator flash at once when the hazard warning flasher switch is on. (See page 4-1.)

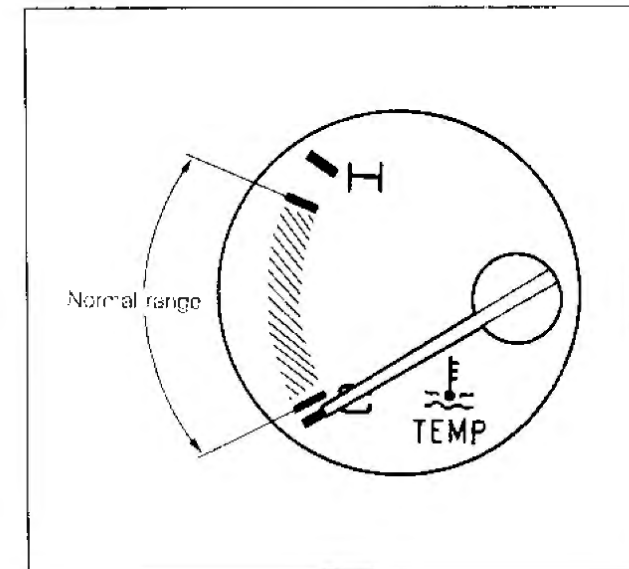
**6. WATER TEMPERATURE GAUGE**

This gauge shows the temperature of the engine coolant.

If the gauge needle moves beyond the normal range area, it indicates engine overheating.

If this happens, follow this procedure:

1. Drive safely to the side of the road and stop your vehicle.
2. Turn off the air conditioner.
3. Allow the engine to idle and open the hood to permit the engine to gradually cool.
4. If the temperature does not go down with



- the engine idling, shut off the engine and allow sufficient time for it to cool down.
5. Visually inspect the alternator/water pump drive belt for looseness or breakage and all cooling hose connections for leaks. If the drive belt is broken or the coolant is leaking, immediately stop the engine. Call a Mazda Dealer for assistance.
  6. If the drive belt is O.K., the engine is cool, and there are no obvious coolant leaks, the coolant level should be checked. If coolant is needed, add coolant as specified (see page 6-13 and 6-23 for cooling system).

**WARNING!**

Do not remove the radiator cap when the engine and radiator are hot. Scalding hot coolant and steam may blow out under pressure, which could cause serious injury. (See warning on page 6-13 for removal.)

**CAUTION**

If the engine continues to overheat, have the cooling system checked and repaired.

92U3-03-0F

**7. FUEL GAUGE**

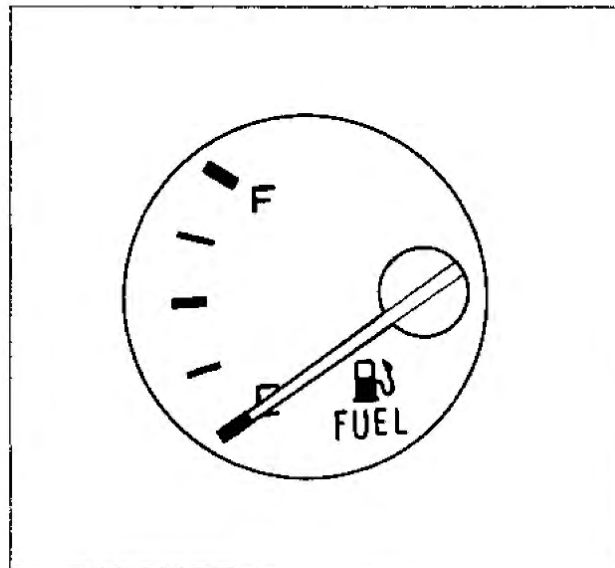
The fuel gauge indicates how much fuel is in the tank.

Tank capacity:

18.5 US gal (15.4 Imp gal, 70 liters)

**NOTE**

The fuel gauge is designed to continue to indicate the amount of fuel remaining in the fuel tank even after the ignition switch has been turned to OFF.



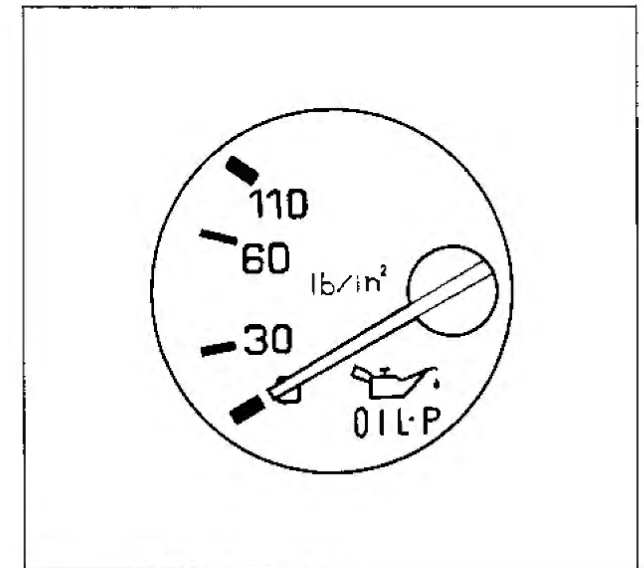
77U3-0323E

**8. ENGINE OIL PRESSURE GAUGE**

This gauge shows the oil pressure when the engine is running.

**NOTE**

The gauge will indicate a lower than normal engine oil pressure, until the engine reaches its normal operating temperature.



## 9. TACHOMETER

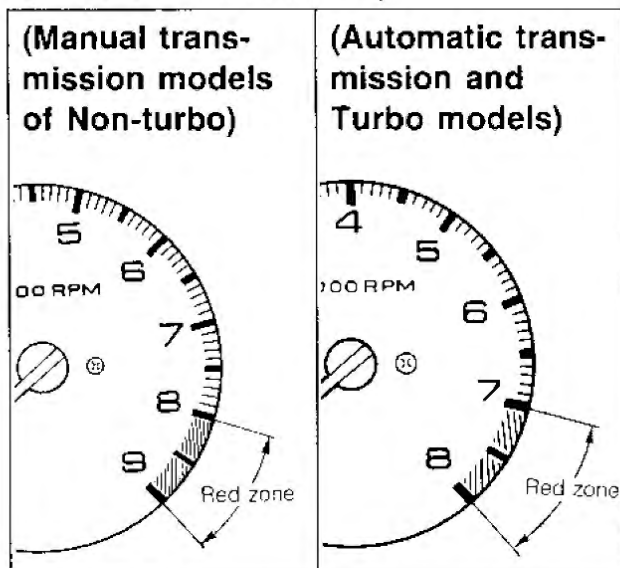
The tachometer indicates engine speed in thousands of revolutions per minute (rpm).

### CAUTION

Do not operate the engine within the tachometer's RED ZONE. This may cause severe engine damage.

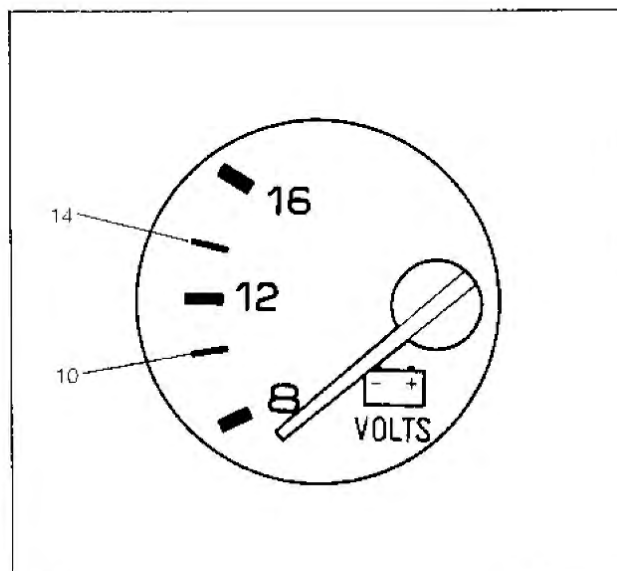
### Engine over-revolution (RED LINE) warning buzzer

A warning buzzer sounds when engine revolutions exceed  $7,900 \pm 100$  rpm (**Manual transmission models of Non-turbo**) or  $6,900 \pm 100$  rpm (**Automatic transmission and Turbo models**).



## 10. VOLTMETER (Non-turbo models)

The voltmeter indicates whether the battery is charged or discharged. If the needle reads below 11 volts or above 15 volts with the engine running, it indicates the charging system needs immediate repair. It is normal for the needle to drop below 11 volts during engine starting.

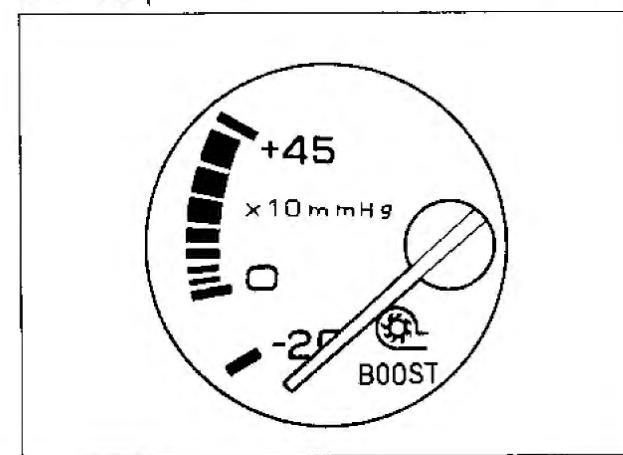


## BOOST METER (Turbo models)

The boost meter registers at less than 0 position when the engine is idling or the vehicle is moving at extremely low speeds. When the engine speed increases, when the turbo charger is operating, or when the pressure in the intake manifold increases, the marker on the boost meter moves to a higher than 0 position.

### CAUTION

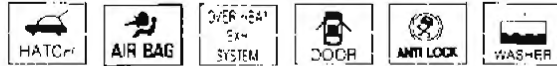
When the pressure exceeds the maximum positive value shown on the meter, stop the vehicle or slow down until the meter reads normal otherwise, engine components could be damaged if you continue to drive in these conditions. Have the condition checked at your nearest Authorized Mazda Dealer as soon as possible.



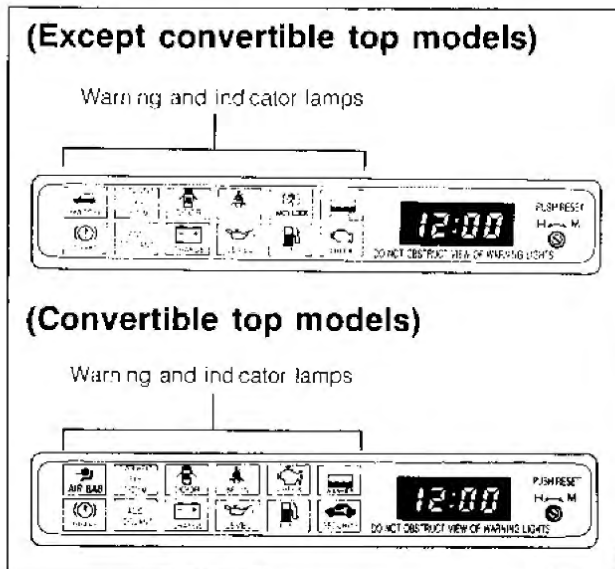
## 11. WARNING AND INDICATOR

### NOTE

### Checking operation



These indicator lamps are checked by turning the ignition switch ON (do not start the engine) and applying the parking brake. Any light that does not come on should be checked by your Authorized Mazda Dealer.



- a. **Rear Glass Hatch Ajar Warning (Except convertible top models)**



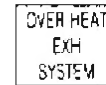
This warning lamp comes on when the rear glass hatch is not closed securely, while the engine is running and the parking brake is released.

- b. **Supplemental driver air bag restraint system warning lamp (Convertible top models)**



See page 2-28 for detailed information.

- c. **Heat Hazard Warning**



See page 1-6 for detailed information.

- d. **Door Ajar Warning**



This warning lamp comes on when a door is not closed securely, while the engine is running and the parking brake is released.

- e. **Seat Belt Warning**



See page 2-21 for detailed information.

- f. **Anti-Lock Brake System (Except convertible top models, if equipped)**



When the engine is started, the anti-lock warning lamp will come on. If the ABS control unit determines that all components are operating correctly, the control unit turns the anti-lock warning lamp off.

### ABS OPERATION

The ABS control unit continuously monitors the speed of each wheel. If a wheel is about to lock up, the ABS responds by automatically releasing and re-applying the brake for that wheel. The driver will feel a vibration or pulsation in the brake pedal and may hear a 'chattering' type noise from the brake system. This is a normal condition and indicates that the ABS is operating.

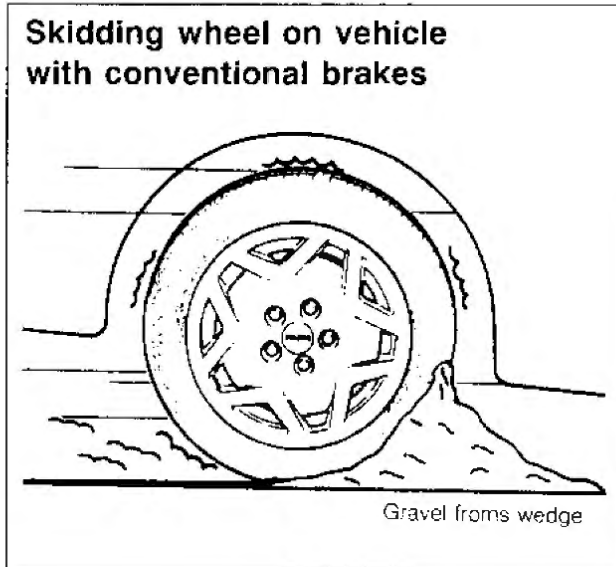
### CAUTION

- If the anti-lock warning lamp remains on while the vehicle is in motion, it indicates that the ABS control unit has detected a malfunction in the system. If this occurs, the brake system will function the same as a normal brake system without ABS. Should the anti-lock lamp remain on, consult your Authorized Mazda Dealer as soon as possible.

- Be aware that braking distances may be longer on loose surface layers, such as snow, which lie on top of hard surfaces, this is because the tires of a conventionally braked vehicle build up a sort of cushion of the loose layer they skid through. (See illustration)

**WARNING!**

The ABS cannot compensate for unsafe or reckless driving, excessive speed, following another vehicle too closely, or aquaplaning (a condition of reduced tire friction due to water on the road). Do not rely on ABS as a substitute for safe driving techniques.



**NOTE**

When the engine is jump started in order to charge the battery, an unevenness of the engine revolutions occurs, and at the same time, the anti-lock brake system warning lamp flashes on and off. But this is due to the lack of battery capacity, and in no way indicates a malfunction in the system.

Under these circumstances, you should drive the vehicle only after replenishing the battery's voltage.

**g. Washer Fluid Low Level Warning**



If this warning lamp comes on, it indicates a low fluid level in the windshield washer fluid reservoir. Check the level and add fluid if necessary. (See page 6-12.)

**h. Brake System Warning**



This warning has two functions.

1. *Parking brake warning*

This lamp comes on when the parking brake is applied with the ignition switched on. Make sure the parking brake is fully released before driving. The lamp should go out when the parking brake is fully released.

2. *Brake fluid level warning*

If the warning lamp is on, the parking brake is fully released, and the ignition is switched on, it indicates that the brake fluid level in the reservoir may be low.

If the warning lamp stays on:

1. Be sure the parking brake is released. If the warning lamp remains on . . .
2. Drive safely to the side of the road and carefully stop your vehicle.
3. With the engine stopped, check the brake fluid level immediately and add fluid as required. All brake components should also be checked immediately for fluid leaks.
4. If any leaks are found, if the warning lamp remains on, or if the brakes do not operate properly, do not drive the vehicle! Have it towed to an Authorized Mazda Dealer for brake system inspection and necessary repairs.

**WARNING!**

Operation of your vehicle in the above condition is dangerous. Have the brakes repaired immediately.

As a check for bulb operation, the warning light glows when the ignition key is in the START position and should go out when the engine is started.

### i. Coolant Level Warning



If the lamp/buzzer comes on while the vehicle is in motion:

1. Drive safely to the side of the road and stop your vehicle.
2. Turn off the engine and let it cool. If no coolant leaks are evident, check the coolant level in the coolant reservoir and radiator (see Warning on page 6-13). Add coolant as required.
3. If the warning lamp remains on, tow your vehicle to the nearest service station or Authorized Mazda Dealer.  
Do not attempt to drive the vehicle if the light remains on, serious engine damage could result.

### j. Alternator Warning



The warning indicates a malfunction of the alternator and electrical wiring system.

If the warning lamp comes on while the vehicle is in motion:

1. Drive safely to the side of the road and stop your vehicle.
2. With the engine stopped, inspect the alternator drive belt for looseness or breakage.

3. If the belt is operating properly, a problem exists somewhere in the charging system. It should be found and corrected as soon as possible by an Authorized Mazda Dealer.

### k. Engine Oil Level Warning



This warning indicates that the engine oil level is low.

If the lamp/buzzer comes on while driving:

1. Drive safely to the side of the road and stop your vehicle.
2. Check the engine oil level. If the oil level is low, add oil as required or;
3. Have your vehicle towed to the nearest gas station or an Authorized Mazda Dealer to add oil.

### l. Low Fuel Level Warning



This warning indicates that the fuel level is low. The warning lamp will come on when the fuel level has dropped to approximately 2.9 US gal (2.4 Imp gal, 11 liters). The tank should be re-filled as soon as possible.

### m. Malfunction Indicator



This warns that there is a problem somewhere in your engine electrical system. If it comes on while you are driving, have your vehicle checked by your Authorized Mazda Dealer as soon as possible.

### n. Headlight High Beam Indicator



This indicator comes on when the headlights are on and in the highbeam position.

### o. Theft-deterrent Security Indicator (Convertible top models)

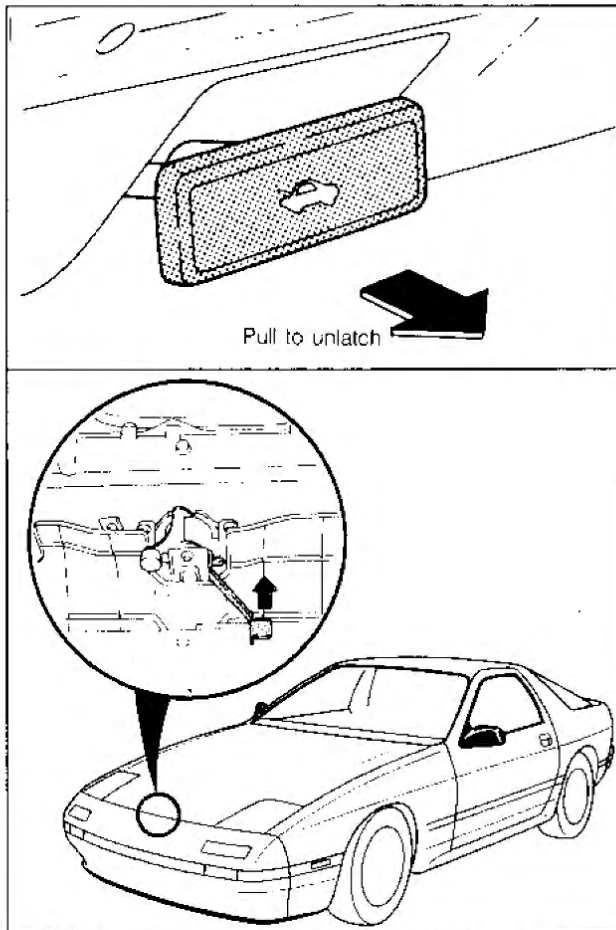


See page 2-9 for detailed information.

# OTHER CONTROLS AND FEATURES

## HOOD RELEASE

1. Pull the release knob to unlatch the hood.
2. Pull the safety catch lever up and lift the hood.

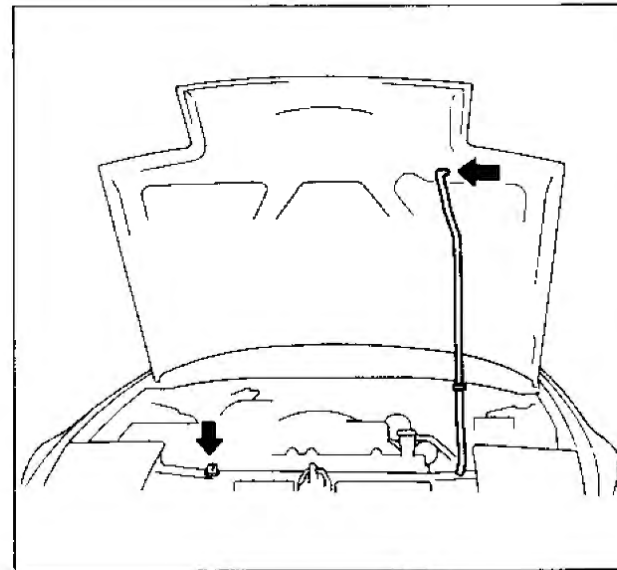


3. Hold the hood open with the support rod.

Before closing the hood, return the support rod to its clip. This prevents rattles. Lower the hood and make sure it locks into place.

### **WARNING!**

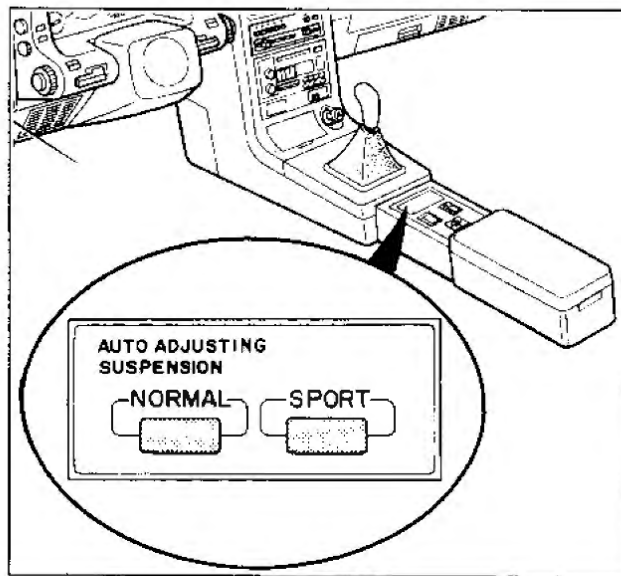
- On vehicles equipped with an automatic transmission, do not release the hood latch until the selector lever has been securely latched in P (Park) and the parking brake has been set fully. Turn the ignition off unless it is necessary to check systems with the engine running.



- If the vehicle has a manual transmission do not release the hood latch unless the ignition is first turned off, the gear selector lever is placed in 1 (First), and the parking brake is firmly set.
- With a manual transmission, if it is necessary to check beneath the hood with the engine running, place the transmission shift lever in N (Neutral) and set the parking brake fully. Unexpected and possibly sudden vehicle movement may occur if these precautions are not taken.
- To avoid the possibility of personal injury, you should always turn off the ignition and remove the key before working under the hood unless the particular procedure specifically requires otherwise. If the procedure requires you to run the engine while working under the hood, do not permit any clothing, such as neckties or handkerchiefs, near the engine or cooling fan. They can become entangled in moving parts and result in personal injury and damage to the vehicle. Also remove watches, bracelets and rings. (For a more detailed explanation, see Section 6.)

## AUTO ADJUSTING SUSPENSION (A.A.S.) SYSTEM (Except convertible top models, if equipped)

The A.A.S. System automatically changes the shock absorber damping force. Two selecting switches are provided so that the driver can tailor the damping force to the desired ride condition. The system goes one step further by providing built-in automatic control over sudden changes in the attitude of the vehicle. At either setting, the system will automatically vary the damping force through any combination of soft, firm or very firm.



### Selecting switches

#### **NORMAL switch**

At the NORMAL position, the shock absorbers provide a normal and comfortable ride. This position is suggested for ordinary driving conditions in urban areas, etc.

#### **SPORT switch**

Alternatively the shock absorbers can be set to the firm position (SPORT), ideal for sports-car-like driving conditions in which a harder setting is preferable.

### Normal driving

- **NORMAL switch position**

At speeds of up to about 50 mph (80 km/h), the shock absorbers are in the soft condition; at speeds over 50 mph (80 km/h) the front shock absorbers change to the firm condition, thus improving directional and high speed stability. The front shock absorbers revert back to the soft condition when the vehicle's speed drops below about 43 mph (70 km/h).

- **SPORT switch position**

At speeds of up to about 50 mph (80 km/h), the shock absorbers are in the firm condition; at speeds over 50 mph (80 km/h), the front shock absorbers change to the very firm condition, thus improving directional and high speed stability. The front shock absorbers revert back to the firm condition when the vehicle's speed drops below about 43 mph (70 km/h).

AAS switch position	Up to about 75 mph (80 km/h)		Over 75 mph (80 km/h)	
	Front	Rear	Front	Rear
Normal	Soft	Soft	Firm	Soft
Sport	Firm	Firm	Very firm	Firm

## ANTI-SQUAT EFFECT

When starting or accelerating suddenly while driving below 37 mph (60 km/h), the anti-squat function suppresses rear-end squat.

- **NORMAL switch position**

All shock absorbers change to the firm condition.

- **SPORT switch position**

All shock absorbers change to the very firm condition.

AAS switch position	Front	Rear
Normal	Firm	Firm
Sport	Very firm	Very firm

## ANTI-DIVE EFFECT

The anti-dive effect suppresses front-end dive when the brakes are applied suddenly.

- **NORMAL switch position**

All shock absorbers change to the firm condition.

- **SPORT switch position**

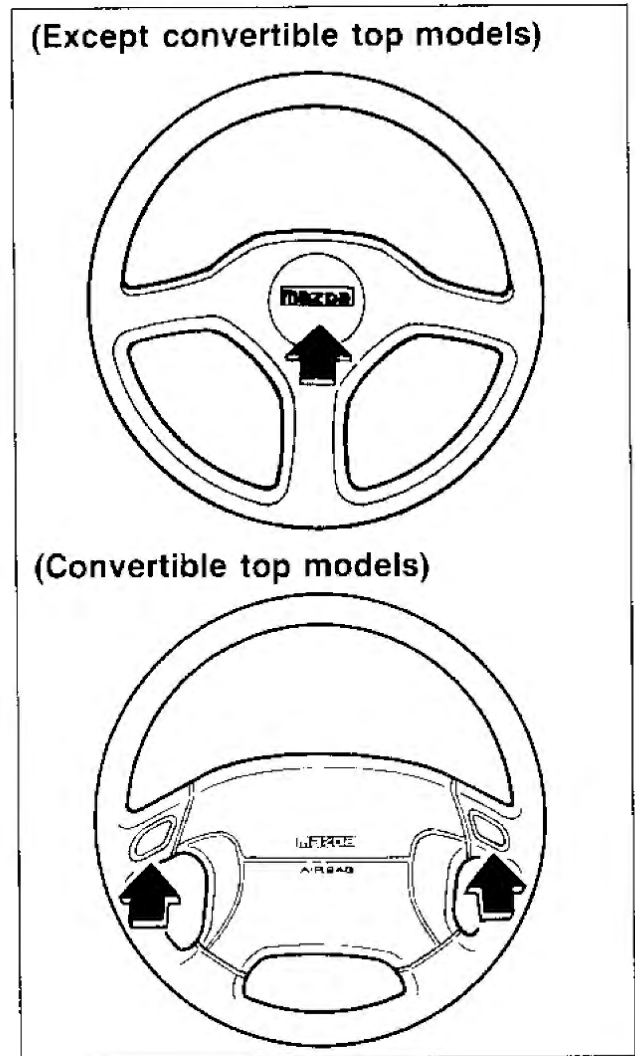
All shock absorbers change to the very firm condition.

AAS switch position	Front	Rear
Normal	Firm	Firm
Sport	Very firm	Very firm

07U3 0380E

## HORN CONTROL

The horn sounds when the horn button is pressed firmly.



## DIGITAL ELECTRIC CLOCK

Push and turn the reset knob to reset the time when the ignition switch is in the ACC or ON position.

**RESET:** To clear minutes, push the knob. When you release this knob, the clock will be set precisely on the hour.

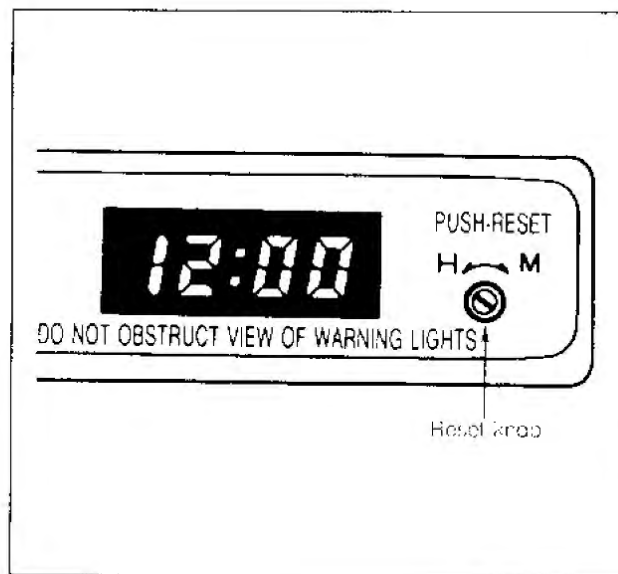
If the knob is pushed while the time is between 9:01 and 9:29, the display will be reset to 9:00. If pushed while it is between 9:30 and 9:59, the display will be reset to 10:00.

9:01 ~ 9:29 → 9:00  
9:30 ~ 9:59 → 10:00

This procedure is useful when you want to set the clock, for example, against a radio broadcast time signal.

**HOUR:** To change hour digits, turn the knob counterclockwise.

**MIN:** To change minute digits, turn the knob clockwise.



## CIGARETTE LIGHTER

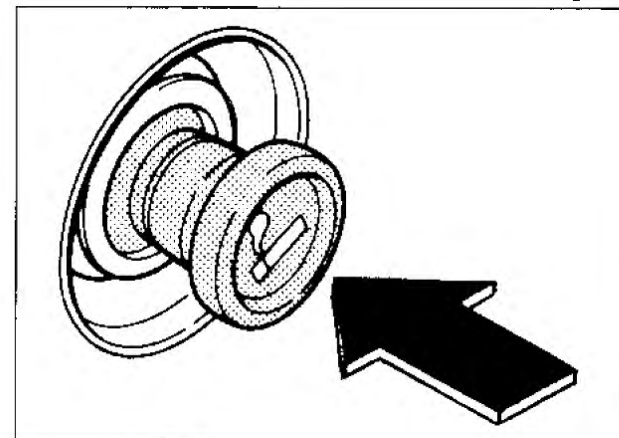
To operate the cigarette lighter, simply press it in. When it is heated, it automatically pops out ready for use. If the engine is not running the key must be in the ACC position for the lighter to operate.

### WARNING!

- Do not hold the lighter in as it will overheat.
- Only a genuine Mazda lighter or equivalent should be used in the cigarette lighter socket. The use of plug-in accessories (shavers and coffeepots, etc.) may damage the socket and cause electrical failure.

### CAUTION

If the lighter does not pop out within 30 seconds, remove it to prevent overheating.



97U3-0420E

## ASHTRAY

To open the ashtray, push the release catch. The ashtray should pop open automatically. To remove the ashtray, open it to the normal position, hold the lid firmly and pull the ashtray all the way out towards you. After using the ashtray, push it in fully.

### **WARNING!**

Do not use the ashtray as a waste receptacle if it is also used for cigarettes.

97U3-0430E

## GLOVE BOX

To open the glove box, press the release catch and pull the lid downwards. If equipped with a lockable lid, insert the primary key into the slot, then turn the primary key clockwise to lock the glove box.

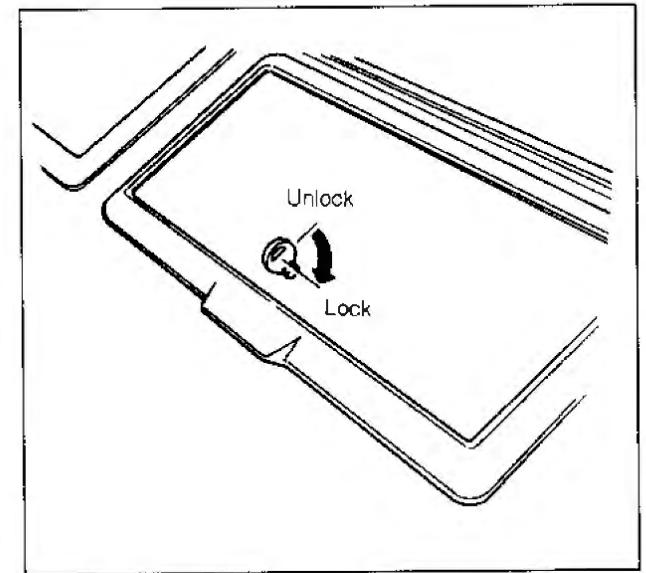
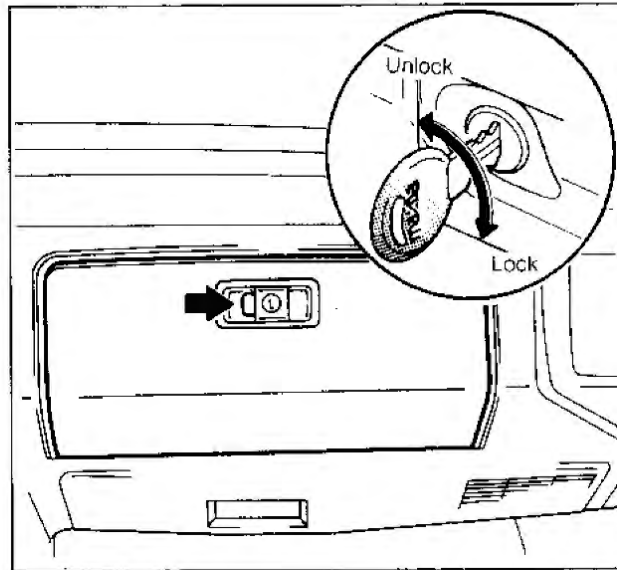
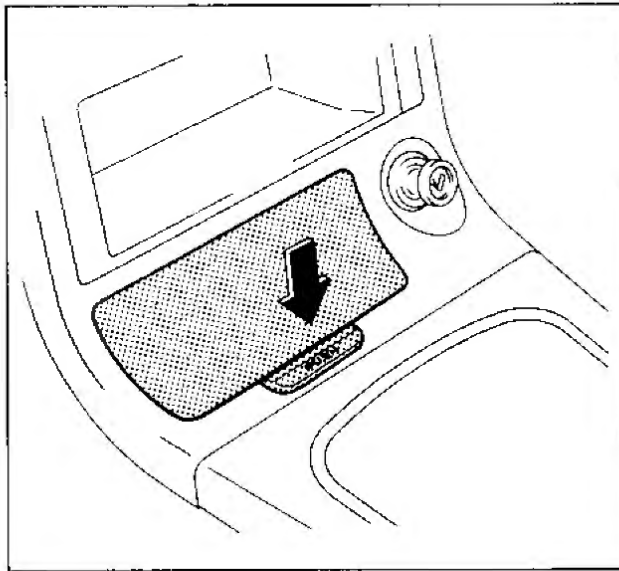
### **WARNING!**

For personal safety, do not operate the vehicle with the glove box lid open.

97U3-0440E

## STORAGE COMPARTMENT (2-seater models, if equipped)

Two storage compartments are located behind the seatbacks. They can be locked or unlocked with the primary key as illustrated.

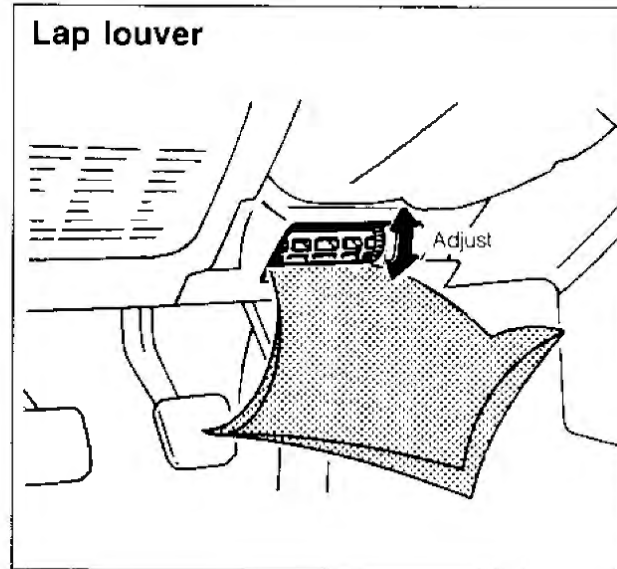
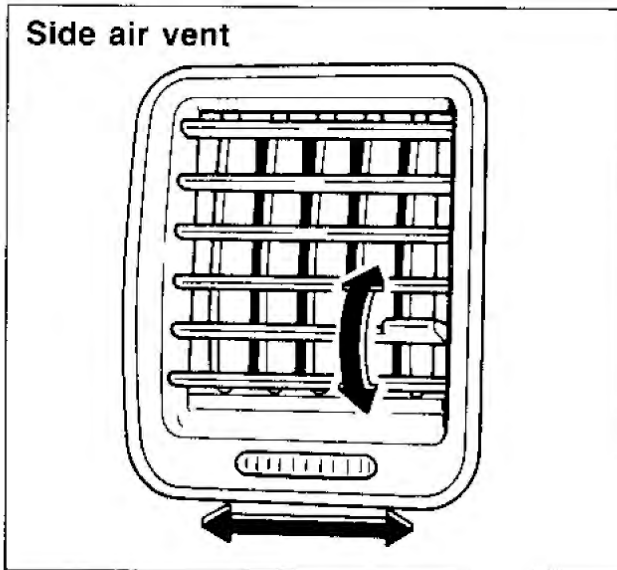


97U3-0450E

## SIDE AIR VENT AND LAP LOUVER

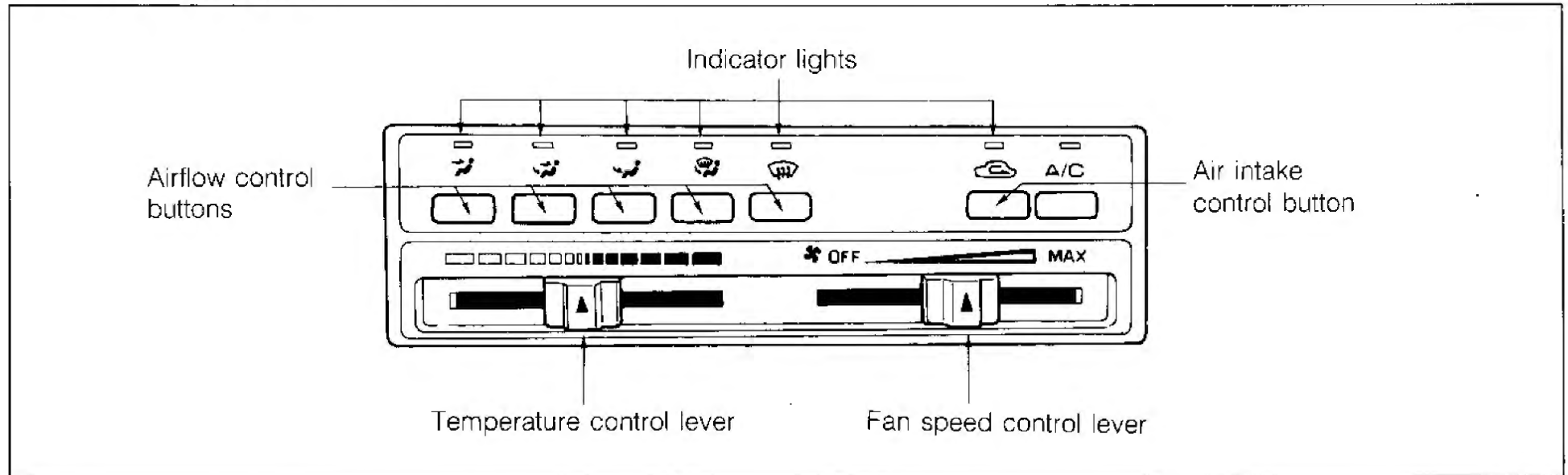
Fresh air\* or cool air (when using air conditioner) comes out of the vents and the louvers according to heater controls. (Refer to 3-33 Heating and defrosting system.) The amount and direction of air flow can be adjusted by turning the grilles of the vents and louvers.

\* Except convertible top models



## HEATING AND DEFROSTING SYSTEM

### CONTROL PANEL AND SWITCH



#### **Airflow control buttons**

The airflow control buttons are used to select the flow of airflow particular vents. Select the desired vent by pushing the button. An indicator light comes on to show operation.

#### **Air intake control button**

The air intake control button is used to select either fresh air from outside or recirculated air.

Push the button ON to select re-circulated air—an indicator light will come on to show operation.

Push the button OFF to obtain fresh air from outside—the indicator light will go out.

#### **Temperature control lever**

Select the desired air temperature by sliding the control lever either to the right for hot, or to the left for cold.

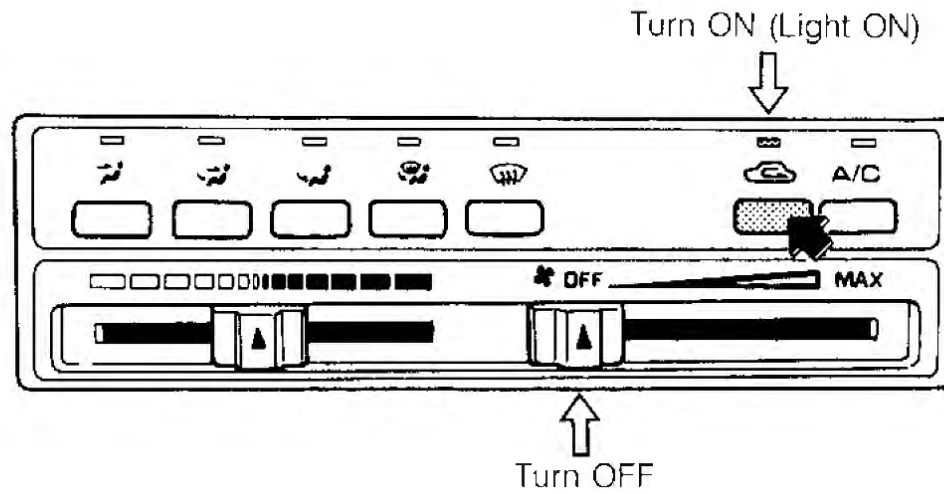
#### **Fan speed control lever**

The fan speed control lever allows variable fan speeds.

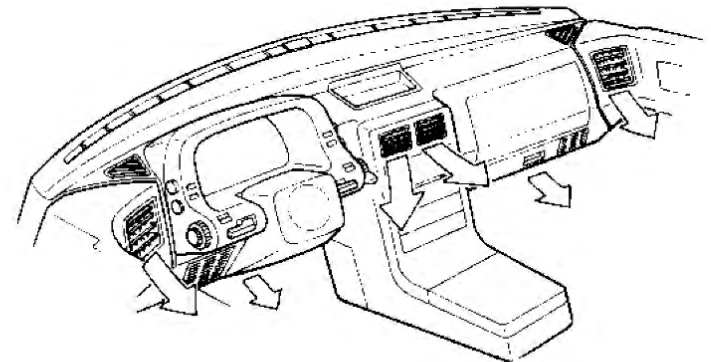
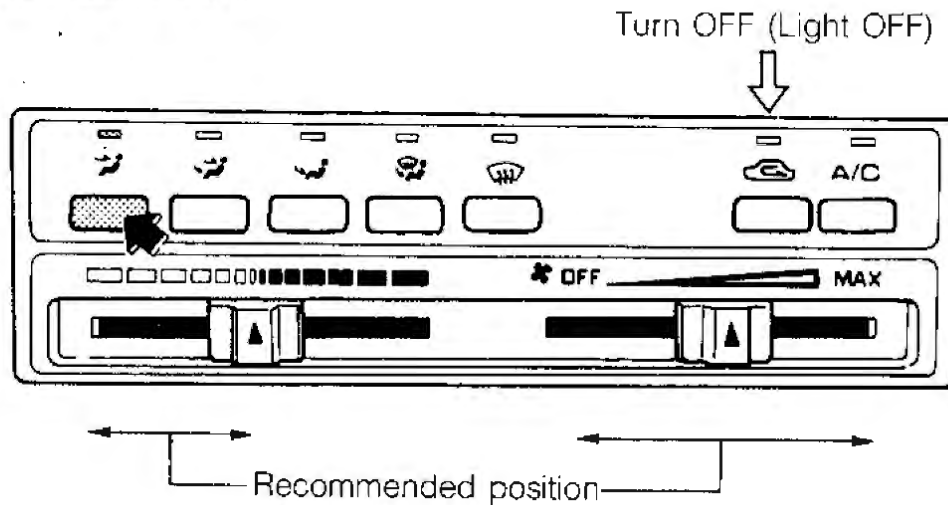
OFF — Fan is switched off.

### HEATER CONTROLS

To shut off outside air:

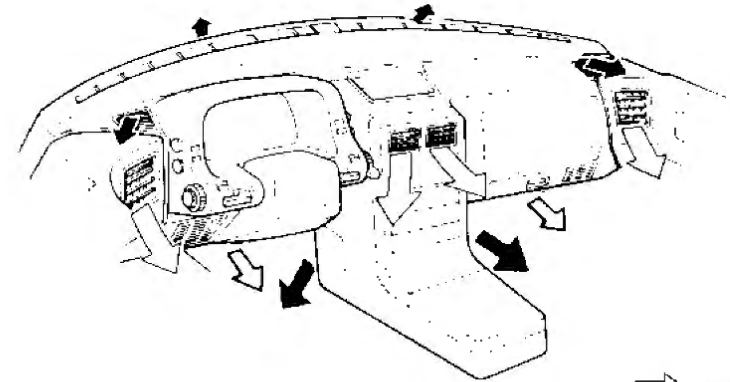
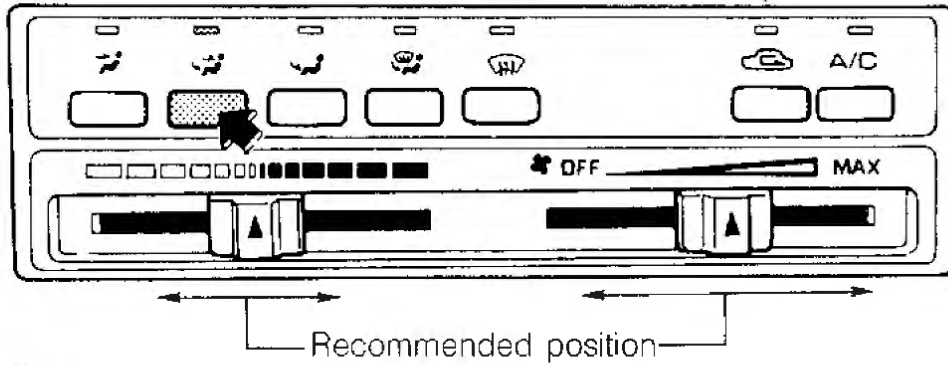


To ventilate vehicle



### Bi-level operation

Turn OFF (Light OFF)



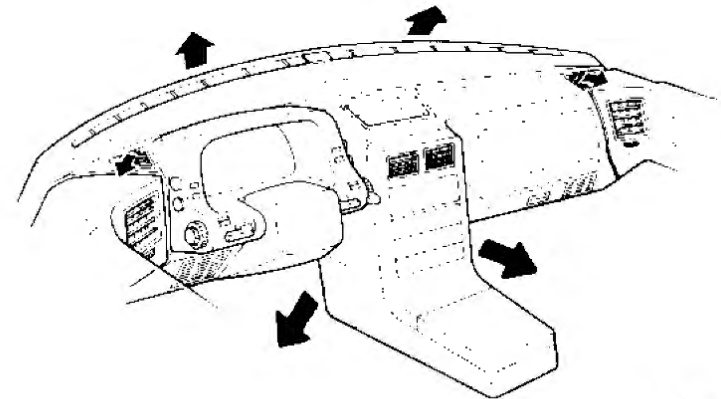
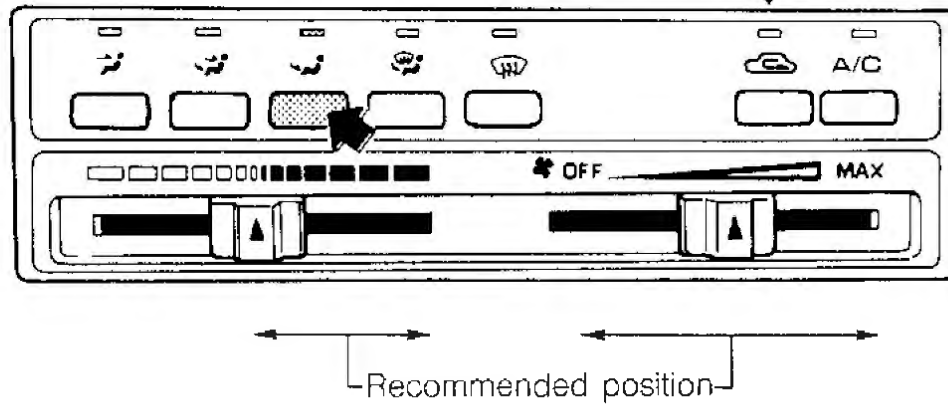
↗ Fresh air  
↘ Warm air

### NOTE

If you set the temperature control lever further to the right than the recommended position shown in the illustration warm air comes out of all vents.

### To heat vehicle

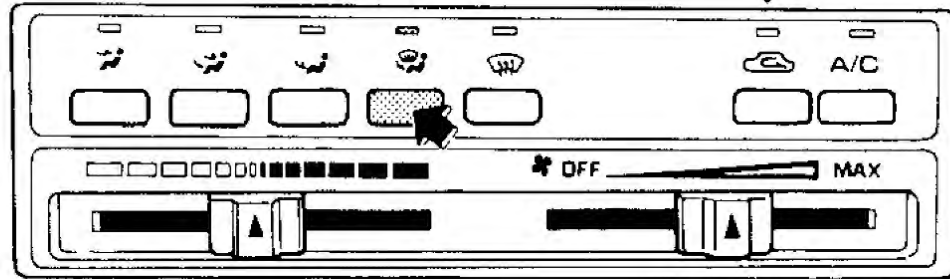
Turn OFF (Light OFF)



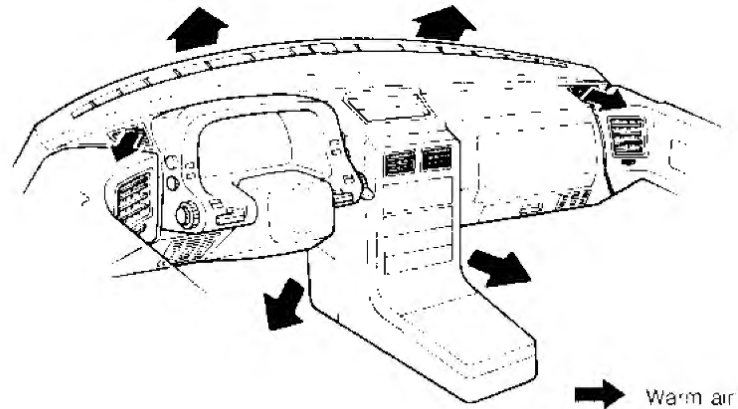
↘ Warm air

**To heat and defrost**

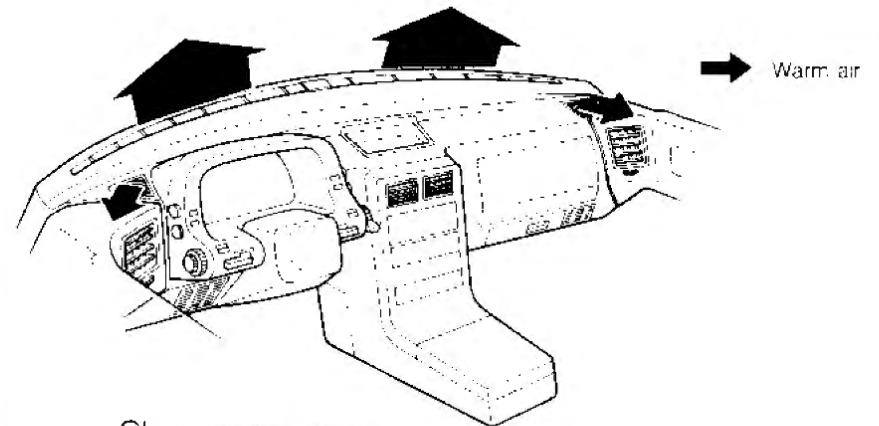
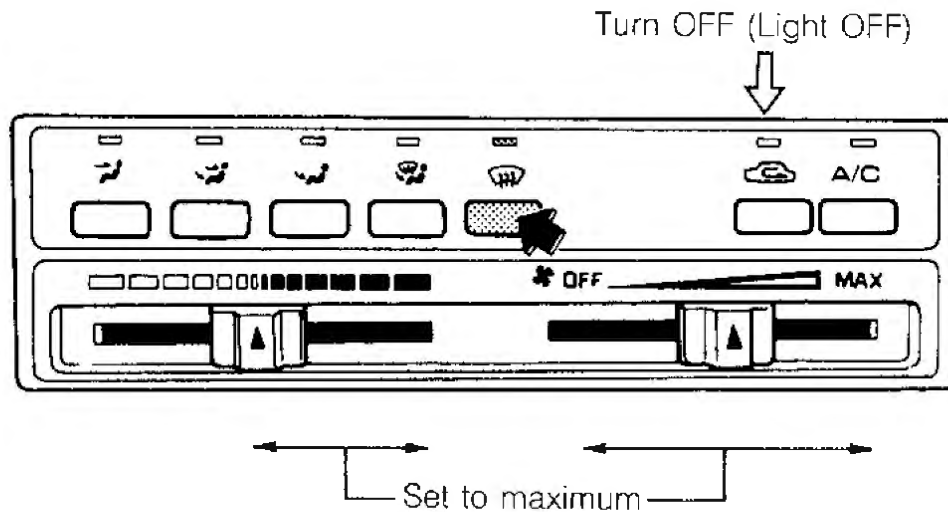
Turn OFF (Light OFF)



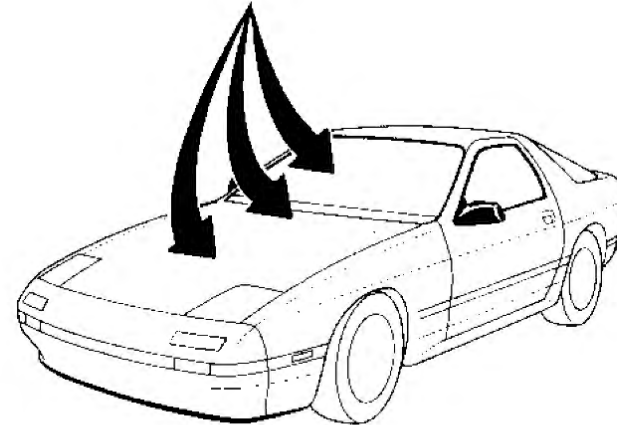
Recommended position




## To defrost and defog windshield




Clear away snow



- For maximum defrosting

1. Press the airflow control button .

**NOTE**

The inflow of outside air is shut off and air is recirculated inside the vehicle when you press the  button. Ventilation is not possible in this setting; therefore, the windows will tend to fog easily.

2. Set the fan speed control lever to the MAX position.
3. Set the temperature control lever to the extreme right position.

- Clear windshield, rear glass, outside mirrors, and all side windows of ice and snow before driving vehicle.
- Clear snow and ice from the hood and air inlet in the cowl grille to improve heater and defroster efficiency, and to reduce the probability of fogging on the inside of the windshield.
- Use of air conditioner is effective for defogging (if equipped).

## AUDIO SYSTEM

### AM/FM MULTIPLEX RADIO (if equipped)

#### DIVERSITY TUNING

The rear power antenna receives both AM and FM signals, while the windshield antenna receives only FM broadcasts. After signals have been received from both the front and rear antennas the antenna providing the best FM reception selected. This is known as diversity tuning. With this method you will be able to enjoy the highest quality FM reception.

#### NOTE

Rear power antenna elevation is fully automatic. With the ignition switch in ON or ACC position, the antenna will elevate whenever the radio is turned on and will retract when the radio or the ignition switch is turned off.

#### (Type B, C)

If the tape (Type B, Type C) or CD (Type C) is operated after the radio is turned on, the antenna will stay raised. When the tape or CD is turned off, the antenna will be retracted.

## RADIO RECEPTION

### AM (Amplitude Modulation) characteristics

AM signals bend around such things as buildings or mountains and bounce off the ionosphere. Therefore, they can reach longer distances than FM signals. Because of this, two stations may sometimes be picked up on the same frequency at the same time.

### FM (Frequency Modulation) characteristics

An FM broadcast range is usually about 25—30 miles (40—50 km) from the source. Because of the extra coding needed to break the sound into two channels, stereo FM has even less range than monaural (nonstereo) FM. Signals from an FM transmitter are similar to beams of light because they do not bend around corners, but they do reflect. Unlike AM signals, FM signals cannot travel beyond the horizon. Therefore, FM stations cannot be received at the great distances possible with AM reception. Atmospheric conditions can also affect FM reception. High humidity will cause poor reception. However, cloudy days may provide better reception than clear days.

- **Multipath Noise**

Since FM signals can be reflected by obstructions, it is possible to receive both the direct signal and the reflected signal at the same time. This causes a slight delay in reception and may be heard as a broken sound or a distortion. This problem may also be encountered when in close proximity to the transmitter.

- **Flutter/Skip Noise**

Signals from the FM transmitter move in straight lines and become weak in valleys between tall buildings, mountains, and other obstacles. When a vehicle passes through such an area, the reception conditions change suddenly, resulting in annoying noise.

- **Weak Signal Noise**

In suburban areas, broadcast signals become weak because of distance from the transmitter. Reception in such fringe areas is characterized by sound break-up.

- **Strong Signal Noise**

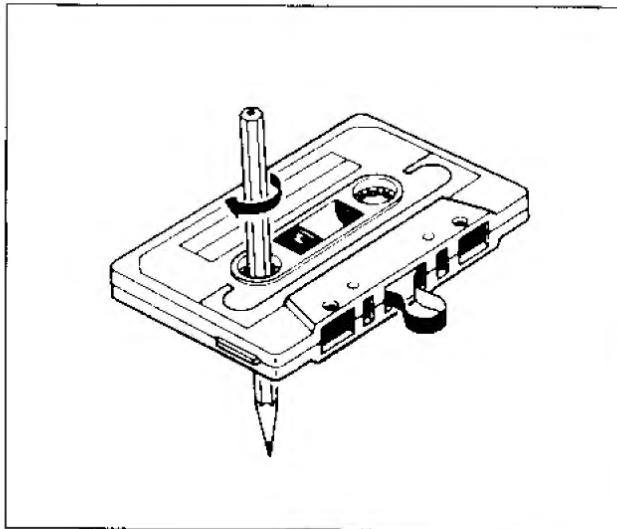
This occurs very close to a transmitter tower. The broadcast signals are extremely strong, so the result is noise and sound break-up at the radio receiver.

- **Station Drift Noise:**

When the vehicle reaches the area of another strong station broadcasting at a similar frequency, the original station may be temporarily lost and the radio will begin to pick up the second station. At this time there will be some noise from this disturbance.

### **TAPE AND TAPE PLAYER CARE**

- Only cassette tapes that play no longer than 90 minutes should be used. Tapes exceeding 90 minutes are thin and may easily break.
- Do not leave a tape cassette in the tape player slot when not in use. Remove it completely to permit the slot door to close and to protect the mechanism from dust.



- Store cassettes away from extreme heat and direct sunlight. Protect the exposed tape from dirt and damage. Store tapes in their original cases or other protective cases.
- If the tape is loose, it may produce poor sound or performance during playback. Use a pencil or other thin instrument to remove the slack if necessary.

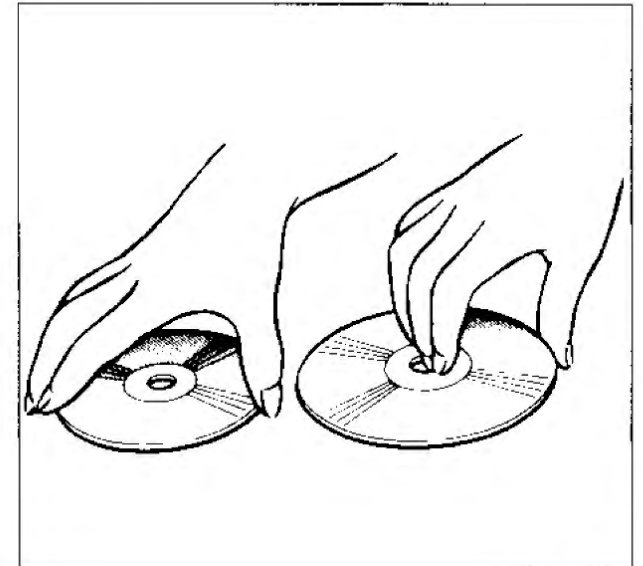
### **Cleaning the Tape Player**

Over time, the tape head, capstans, and pinch rollers gather oxide residue from the tape as it passes these components while playing. This oxide accumulation can cause weak or wavering sound and damage to the cassette tape and player. Use a good quality head-cleaning tape or liquid cleaner cassette.

### **COMPACT DISC USE AND CARE**

The following precautions should be observed.

- Be sure never to touch the signal surface when handling the discs. Pick up a disc by grasping the outer edge or the edge of the hole and the outer edge.
- Do not stick paper or tape on the disc. Avoid scratching the reverse side (the side without a label).
- The disc revolves at a high speed within the player unit. Defective (cracked or badly bent) discs should never be used.
- Dust, finger smudges, and dirt can decrease the amount of light reflected from



the signal surface, thus affecting sound quality. If the disc should become soiled, gently wipe it with a soft cloth from the center of the disc to the edge.

- Do not use record sprays, antistatic agents, or household spray cleaners. Volatile chemicals such as benzine and thinner can also damage the surface of the disc and must not be used. Anything that can damage, warp, or fog plastic should never be used to clean your discs.
- Compact discs, like traditional audio records, are made of plastic. To avoid warping, keep the discs in their cases and do not store them where they will be exposed to direct sunlight.



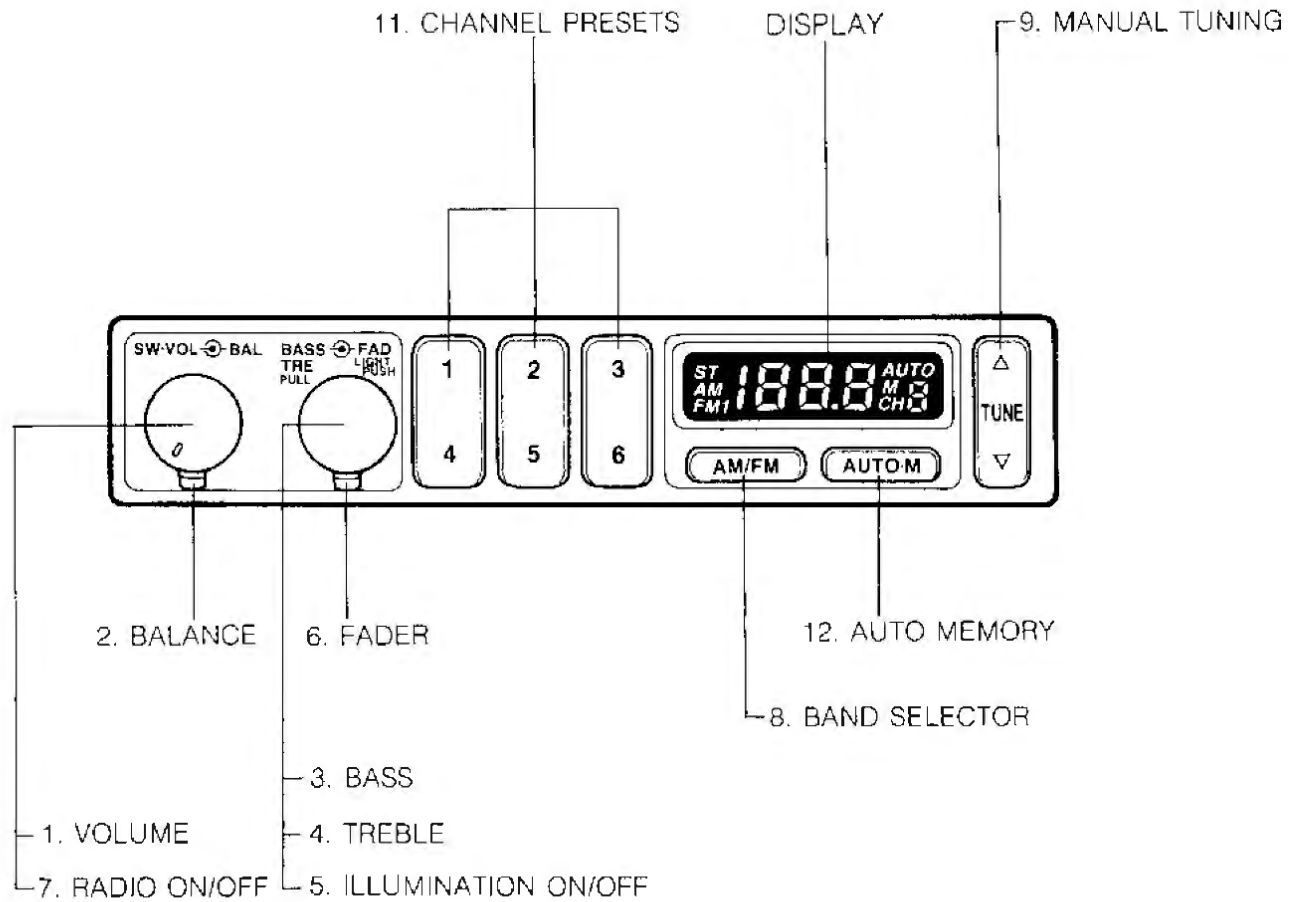
### Condensation Phenomenon

Immediately after turning on the heater of a vehicle in a cold climate, the disc or optical components (prism and lens) may become clouded with condensation. At this time, the disc will eject immediately upon being set into the unit. A clouded disc can be corrected simply by wiping with a soft cloth. Clouded optical components will clear naturally in approximately one hour. Wait for normal operation to return before attempting to use the unit.

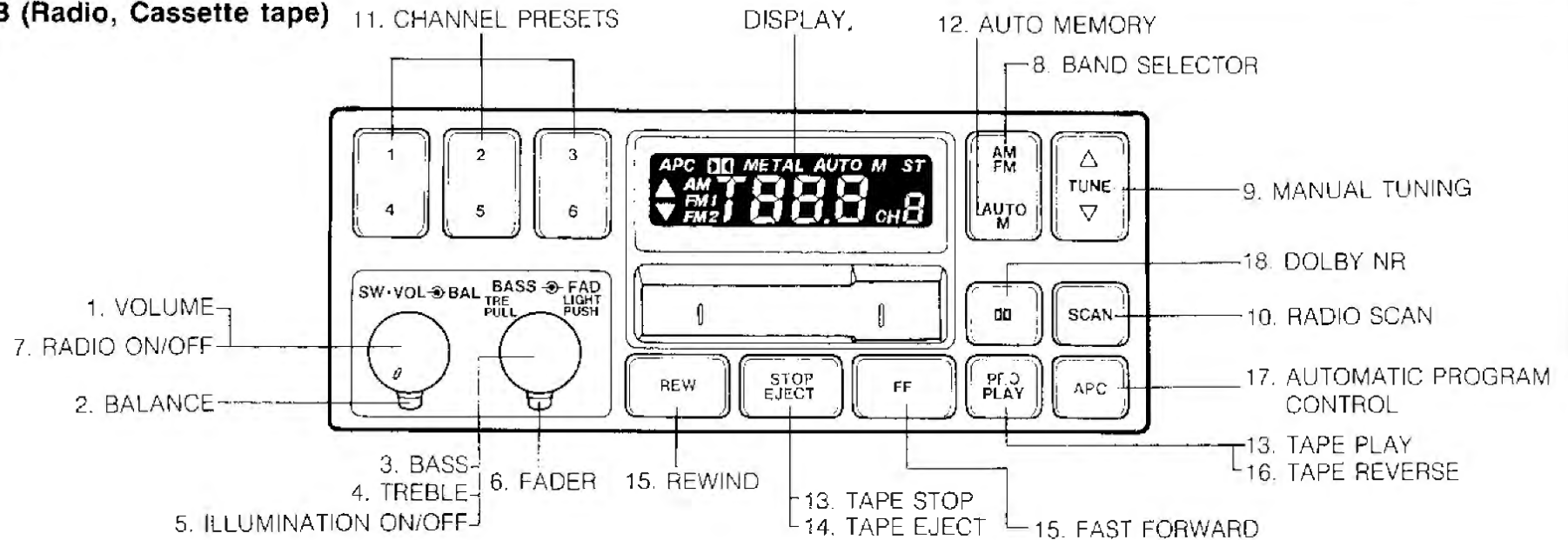
### CAUTION

- The use of controls and adjustments or the performance of procedures other than those specified herein may result in hazardous radiation exposure.
- Never remove the top case of the unit. If operation of the unit is abnormal, contact your dealer.
- To protect the semiconductor laser from damage, the compact disc player will automatically stop play when its internal temperature rises past a specified level. When this occurs,  $\text{H H}$  will appear on the display. Eject the disc from the unit by using the eject button, and allow the temperature to return to normal.
- Do not leave an ejected disc in the insert slot for extended periods because direct sunlight can cause warpage. Return the disc to its case.

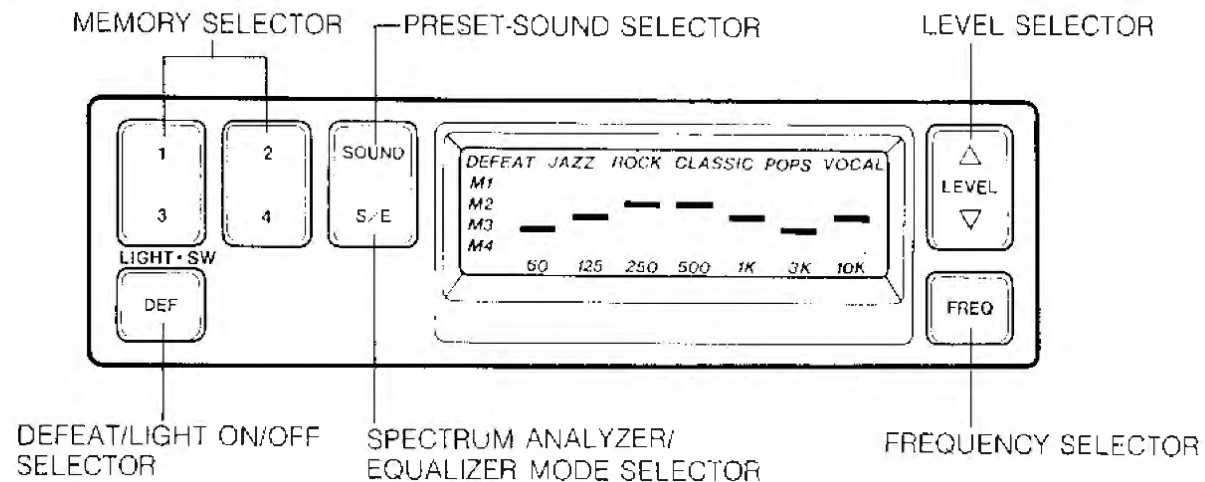
Type A (Radio)



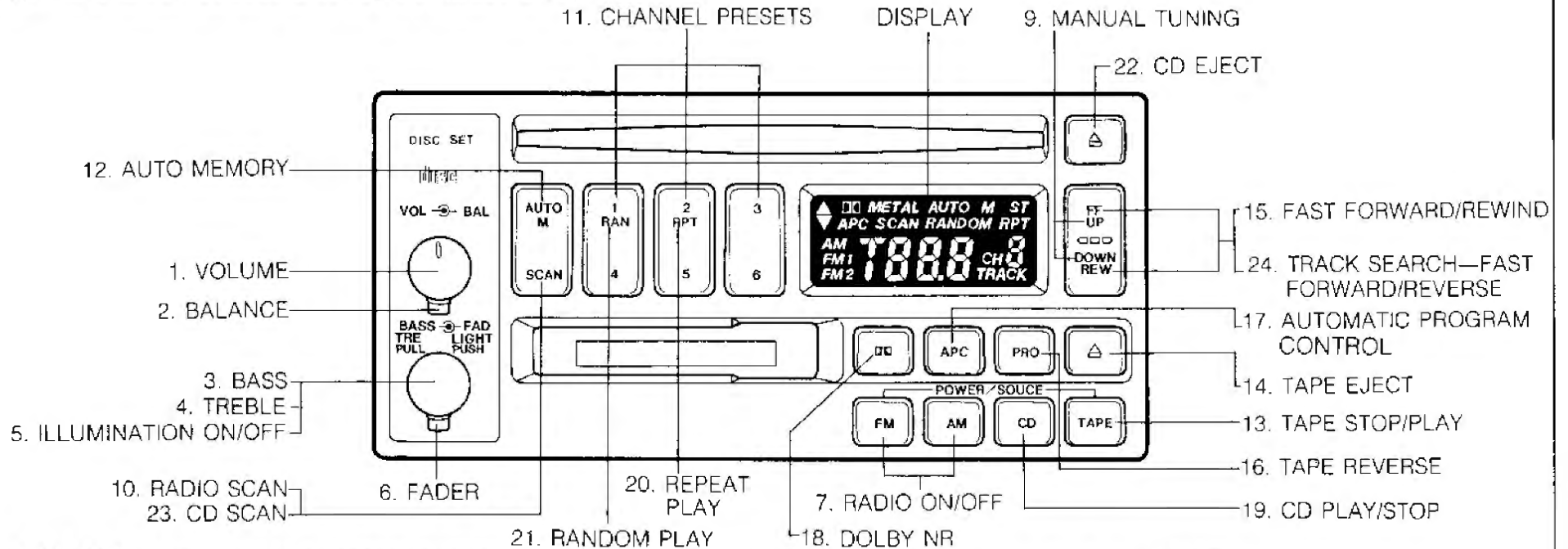
**Type B (Radio, Cassette tape)**



**Graphic equalizer, if equipped (page 3-55.)**



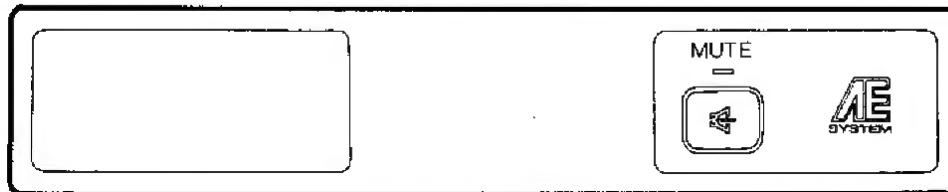
**Type C (Radio, Cassette tape, Compact disc)**



**PASSENGER SELECTOR SWITCHES (Except convertible top models, if equipped) (page 3-57.)**



**MUTE SWITCH (Convertible top models, if equipped) (page 3-58.)**



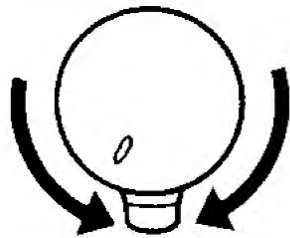
## COMMON FEATURES

### 1. VOLUME

Turn the knob to adjust the volume.

(Type A, Type B)

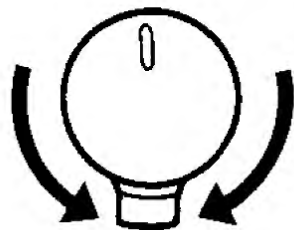
SW · VOL → BAL



Decrease      Increase

(Type C)

VOL → BAL

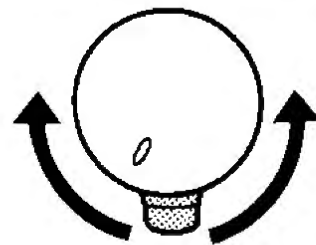


Decrease      Increase

### 2. BALANCE

This control adjusts the sound distribution between the right and left speakers. Turn it clockwise to shift the sound to the left speakers; counterclockwise to shift the sound to the right speakers.

SW · VOL → BAL

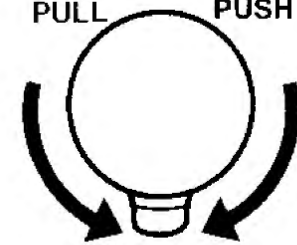


Left      Right

### 3. BASS

This controls the lower tonal qualities. If your listening preference is for more lows, turn the control clockwise; for less lows, turn the control counterclockwise.

BASS → FAD  
TRE PULL      LIGHT PUSH



Decrease      Increase

#### 4. TREBLE

Pull and turn the knob to control the higher tonal qualities. If your listening preference is for more highs, turn the control clockwise; for less highs, turn the control counter-clockwise.

#### NOTE

##### (Convertible top models)

When the fader is set to the rear position, treble sound is not reproduced.

#### 5. ILLUMINATION ON/OFF

Press the knob to cancel the unit's illumination except the graphic equalizer display. Press the knob again to restore illumination.

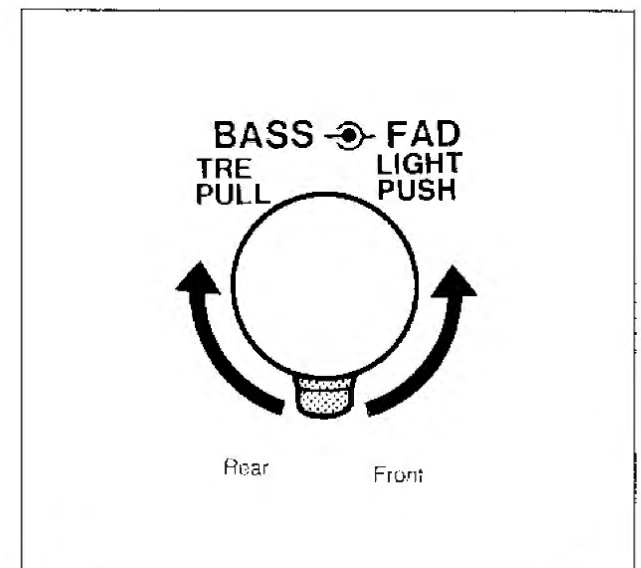
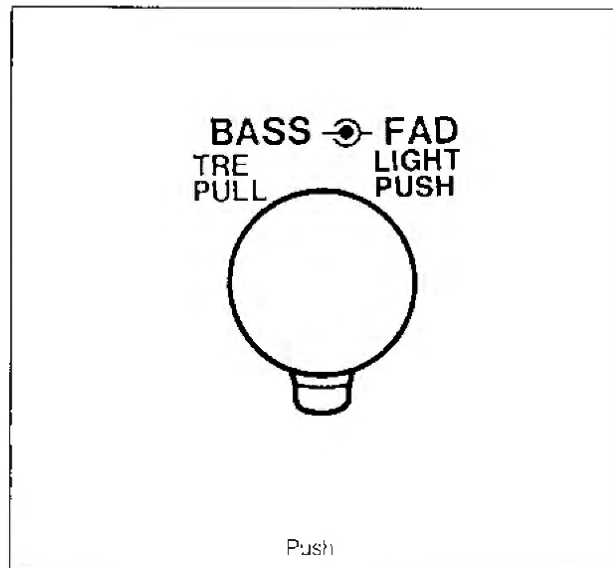
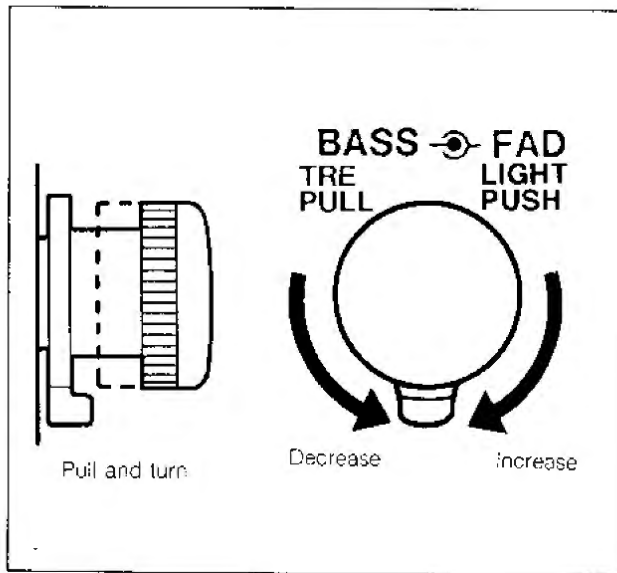
#### 6. FADER

Turn the knob clockwise to gradually shift the stereo sound to the rear speakers; counter-clockwise to shift it to the front.

#### NOTE

##### (Convertible top models)

When the fader is set to the front position, the headrest speakers do not operate. Also, when the fader is set to the rear position, treble sound is not reproduced.



## RADIO OPERATION

### 7. RADIO ON/OFF

To operate the radio, turn the ignition switch to ACC or ON.

#### (Type A, Type B)

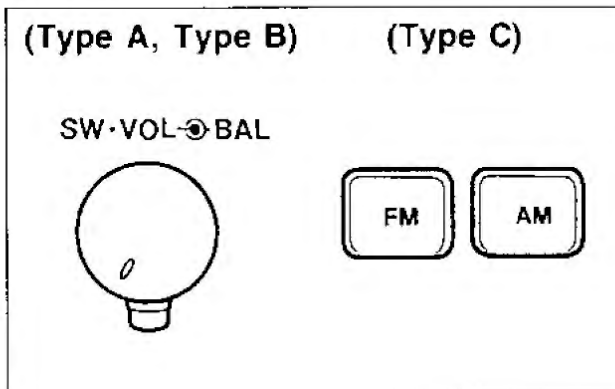
To select radio operation, press the knob (no need to eject tape), it will revert to the previously selected station and its frequency will be displayed. Press again to turn the radio off.

#### (Type C)

Press AM or FM to turn the radio on (no need to eject the tape/compact disc). Pressing AM alternately selects AM and unit OFF. Pressing FM alternately selects FM1, FM2, and unit OFF.

### NOTE

This system does not revert to previous mode when ejecting the tape or compact disc.



### 8. BAND SELECTOR

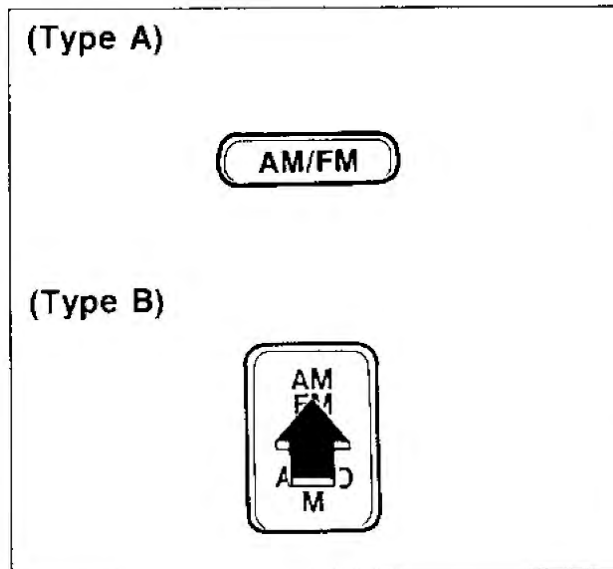
#### (Except Type C)

Press AM/FM to choose either an AM or FM. Pressing AM/FM alternates AM, FM1, and FM2. The corresponding indicator will light.

If an FM stereo broadcast is being received, ST will be displayed in the display.

### NOTE

If the FM broadcast signal being received becomes weak, reception automatically changes from STEREO to MONAURAL for reduced noise, and the ST indicator will go out.



### 9. MANUAL TUNING

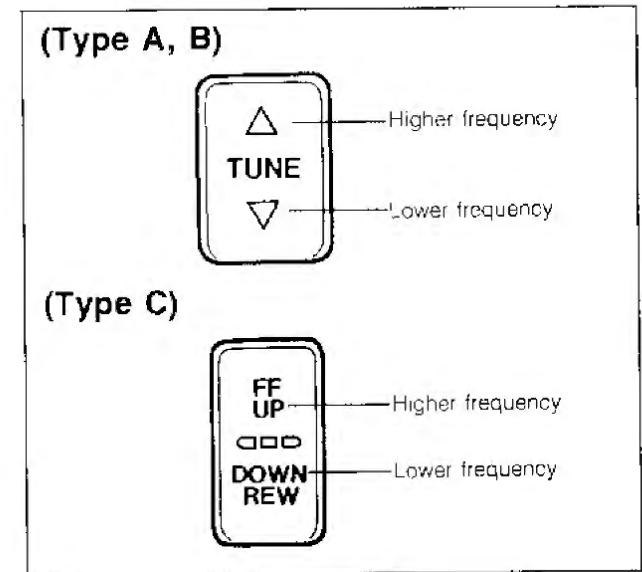
#### (Type A, Type B)

To manually tune a station, press  $\Delta$  for a higher frequency, and press  $\nabla$  for a lower frequency.

Holding either switch down for more than one second and releasing will begin automatic seeking of the next receivable higher or lower frequency station.

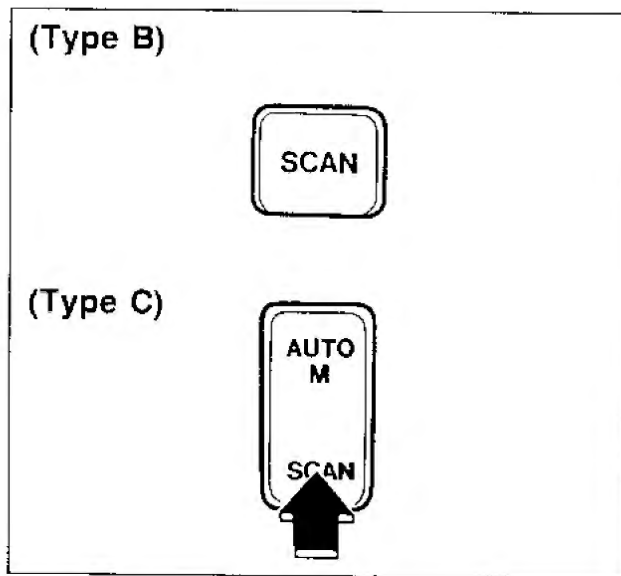
#### (Type C)

To manually tune a station. Press UP for a higher frequency, and press DOWN for a lower frequency. Press and release the button to change frequencies in increments.



## 10. RADIO SCAN

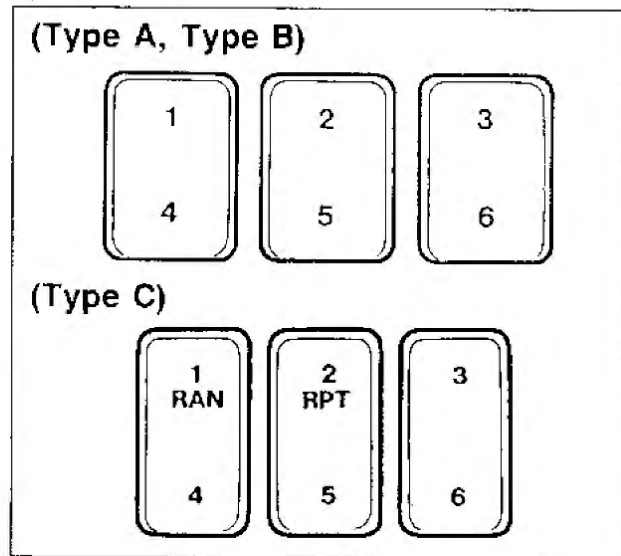
Press the SCAN to automatically sample strong stations. Scanning stops at each station for about five seconds (Type B); eight seconds (Type C). To hold a station, simply press SCAN again during this five seconds (Type B); eight seconds (Type C).



## 11. CHANNEL PRESETS

The three channel preset buttons can be used to store, 6 AM and 12 FM stations. First select AM, FM1, or FM2 by pressing the AM/FM (Type A, Type B) or AM or FM (Type C). AM, FM1, or FM2 will be displayed. Tune the desired station and depress one of the channel preset buttons. Hold the button until a beep is heard and sound returns. The channel number and station frequency will be displayed. The station is now held in memory. Repeat this operation for other stations and bands.

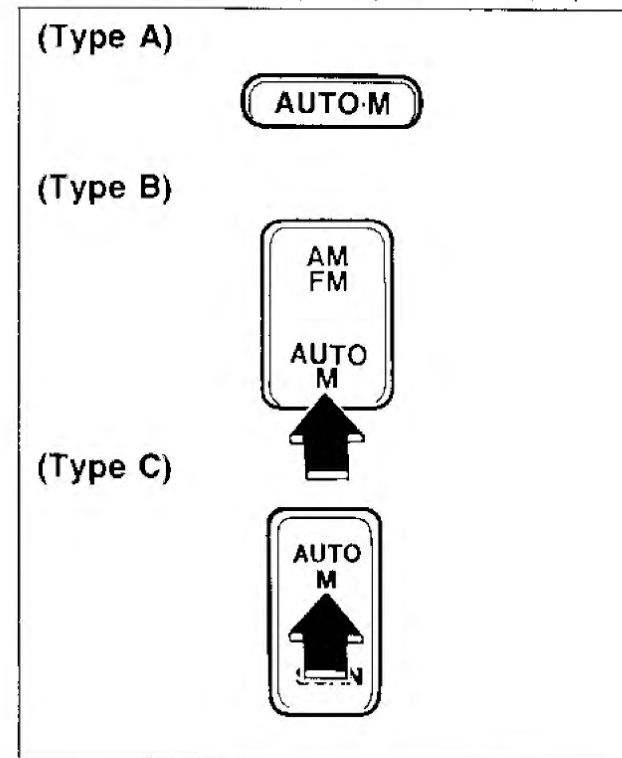
To tune a desired station, press the corresponding preset channel button. The station frequency and preset channel number will be displayed.



## 12. AUTO MEMORY

This is particularly useful when driving in an area where you do not know the local stations. Supplemental AM/FM stations can be memorized in addition to the preset stations.

Press and hold AUTO M for about two seconds. The system will automatically scan and temporarily store the six strongest stations of the selected band in that area. After scanning is completed, the strongest station will be tuned and its frequency will be displayed.



If a total of six stations cannot be tuned after scanning operations, the letter A will be displayed on the indicator.

Press and release the AUTO M to recall preset stations from the auto memory. One preset station will be selected with each press.

### CASSETTE TAPE PLAYER OPERATION

Insert the cassette through the cassette slot, open-edge to the right, to play. This automatically switches the unit from radio/compact disc to tape operation. TAPE will be displayed. At the end of the tape, the unit will automatically reverse the tape play.

When the upper triangle (▲) in the display is lit, the top side of the tape is being played. When the lower triangle (▼) is lit, the bottom side of the tape is being played.

### NOTE

When Metal or Chrome equivalent tape is inserted, the player will automatically adapt to it and METAL will be displayed.

### Cassette Player Protection

To prevent possible damage to the cassette player if a damaged or excessively tight tape is inserted, the cassette will be ejected and the TAPE indicator will flash. If the cassette cannot be ejected, the tape player will go to the pause mode.

If operation of the unit is not normal, contact your Authorized Mazda Dealer. Never attempt to repair the unit or insert a screwdriver, etc., to remove a stuck cassette.

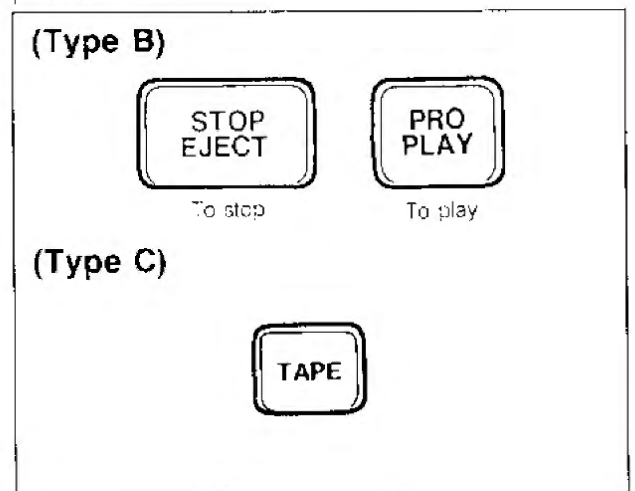
## 13. TAPE PLAY/STOP

### (Type B)

To stop tape play during playback without ejecting the tape, press STOP/EJECT. The tape will be in a pause mode. By pressing the PRO/PLAY button, tape play restarts. To listen to the tape directly from radio or compact disc mode while the tape is inserted, press PRO/PLAY.

### (Type C)

To stop tape play during playback without ejecting the tape, press TAPE. The tape will be in a pause mode. The unit will not shift to radio or compact disc mode. By pressing the button again, tape play restarts. To listen to the tape directly from radio or compact disc mode while the tape is inserted, press TAPE.




## 14. TAPE EJECT

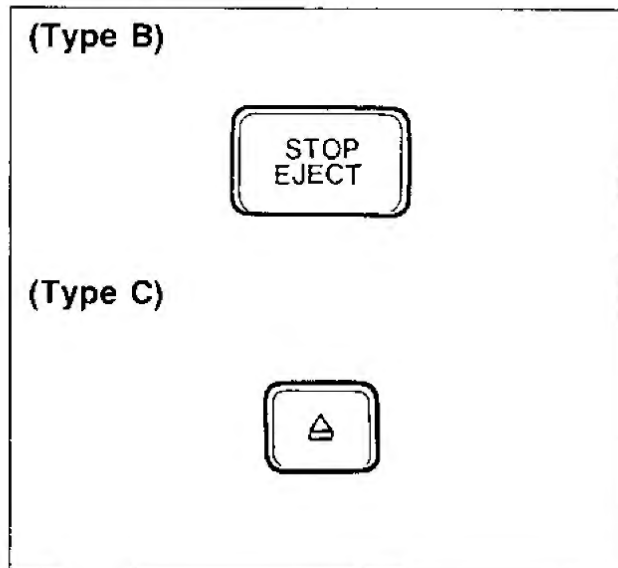
### (Type B)

The tape can be ejected while in the pause mode by pressing STOP/EJECT.

To eject the tape while it is being played, press this button twice.

### (Type C)

The tape can be ejected at any time by pressing TAPE EJECT (  ).



## 15. FAST FORWARD/REWIND

### (Type B)

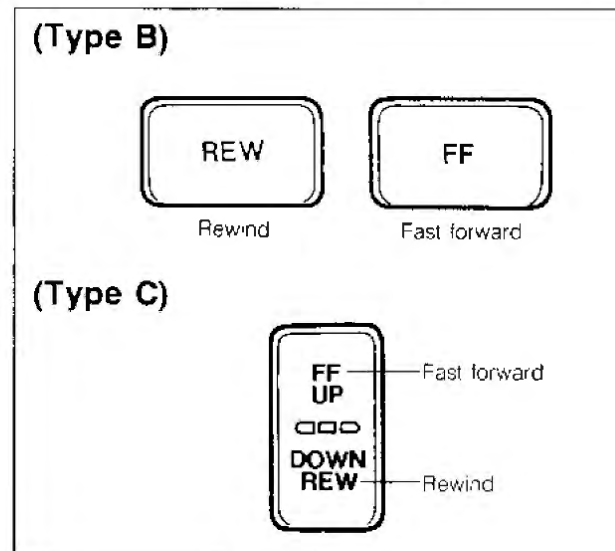
Press FF or REW to operate. The tape direction indicator will flash while the tape is in fast forward or rewind. To stop this operation, press STOP/EJECT.

### (Type C)

Press FF or REW to operate. The tape direction indicator will flash while the tape is in fast forward or rewind. To stop this operation, press again.

### NOTE

When the tape reaches its end during fast forward or rewind, it will automatically stop and start playing in the reverse direction.



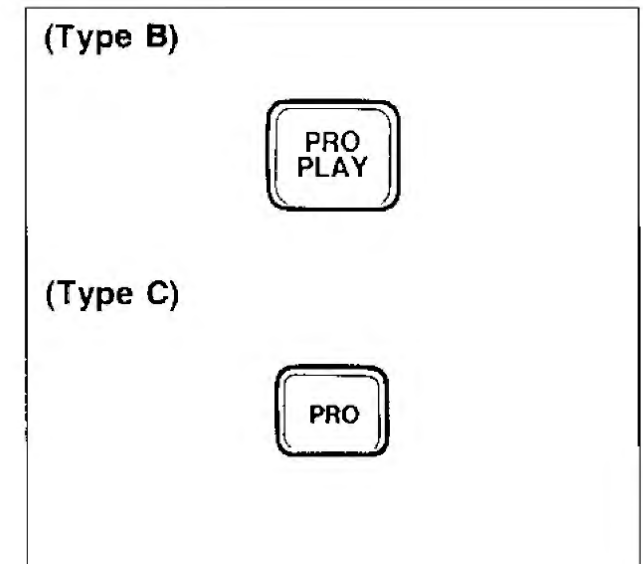
## 16. TAPE REVERSE

To change tape play direction, press PRO/PLAY (Type B) or PRO (Type C).

When the upper triangle (▲) in the display is lit, the top side of the tape is being played. When lower triangle (▼) is lit, the bottom side of the tape is being played.

### NOTE

At the end of the tape, the unit will automatically reverse the tape play.



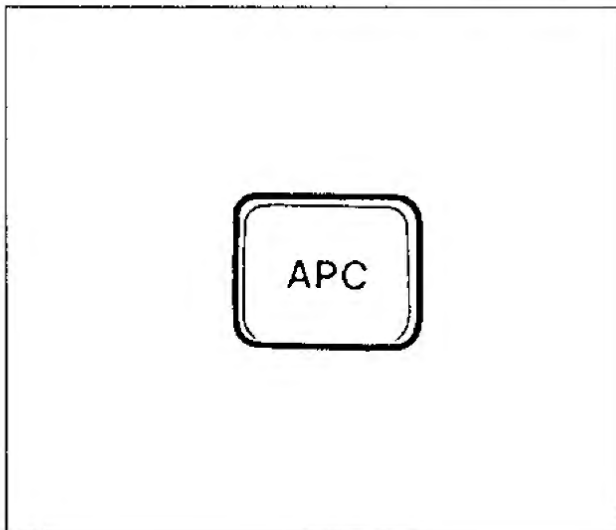
### 17. AUTOMATIC PROGRAM CONTROL

This is used to locate the beginning of the present or next program or skip unrecorded sections of a tape.

The APC circuit senses silent portions between programs. Press APC to operate. APC will be displayed. Press Fast Forward or Rewind to automatically advance to the beginning of the next program or to return to the beginning of the program being played. The tape direction triangle and APC will flash while the beginning of the program is being sought.

#### (Type C)

When APC is on, after 15 seconds blank space is detected, the player automatically advances the tape to the next selection.




### NOTE


APC may not operate properly when the following types of tape are used:

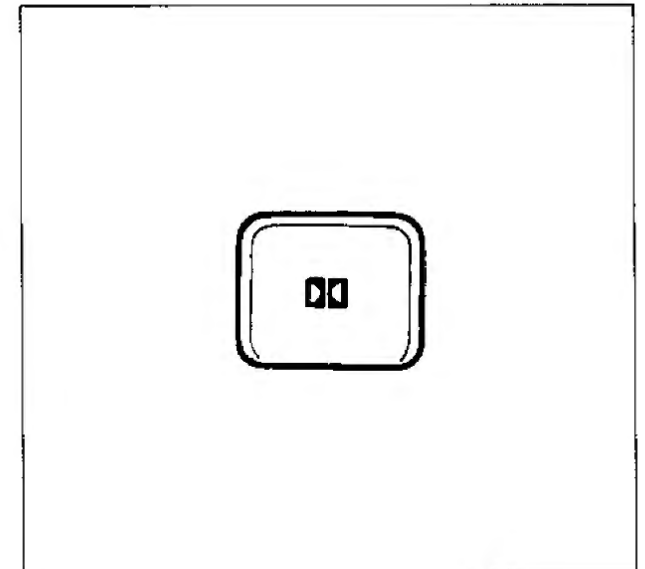
- A tape with low recording level.
- A music tape having long silent interludes.
- A music tape of a live recording having no intervals of silence between tunes.

### 18. DOLBY NOISE REDUCTION

When using a tape encoded with Dolby NR\*, press the Dolby NR button. The  symbol will be displayed. To play a tape recorded without Dolby NR, push the button once again.

\* Noise reduction system manufactured under license from Dolby Laboratories Licensing Corporation.

Dolby and the double-D symbol  are trademarks of Dolby Laboratories Licensing Corporation.



## COMPACT DISC (CD) PLAYER OPERATION

### CAUTION

This CD player cannot play 8 cm CDs with an adapter. The smaller CD may dislodge from the adapter and damage the disc or the player. Use only standard 12 cm type CDs.

### Disc Insert

Push the disc, label-side up, into the slot. The auto-loading mechanism will then take over to set the disc and begin play. DISC SET will be lit and the track number will be displayed. There will be a short lapse of time between the moment the disc is set and play begins. This is because a period of time is necessary for the disc to read the digital signals on the disc. The disc will continue to play from beginning to end.

Press CD EJECT (⏏) to eject the disc. When CD is pressed while the disc is being played, play will pause. Play will resume when this button is again pressed.

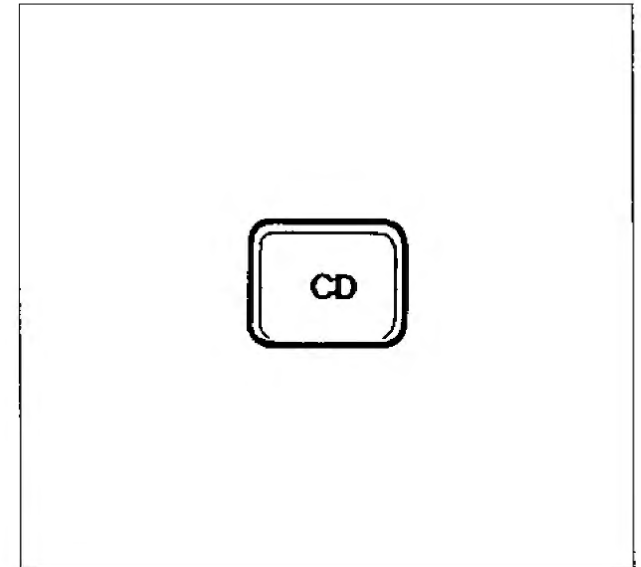
### NOTE

Disc play may momentarily stop if the vehicle goes over railroad tracks, speed bumps, or similar jolts. The system is designed to temporarily suspend disc play under such conditions and this pause should be no reason for concern. The disc should resume playing a second or two after the jolt if the system is operating normally.

## 19. CD PLAY/STOP

To stop CD play during playback without ejecting the disc, press CD. The compact disc will be in a pause mode. By pressing the button again, CD play restarts from the point at which it was stopped.

To listen to the compact disc directly from radio or tape mode while the disc is inserted, press CD.



## 20. REPEAT PLAY

This operation makes it possible to listen to favorite selections repeatedly as many times as desired. Press RPT during play of the selection to be repeated. RPT will be displayed. The current selection is repeated until RPT is again pressed.

## 21. RANDOM PLAY

The built-in microcomputer will play back the selections on a disc in random order, if selected.

Press RAN to operate random play during play. The current selection will continue to play, and from the next selection play will be randomly selected by the microcomputer. RANDOM will be displayed.

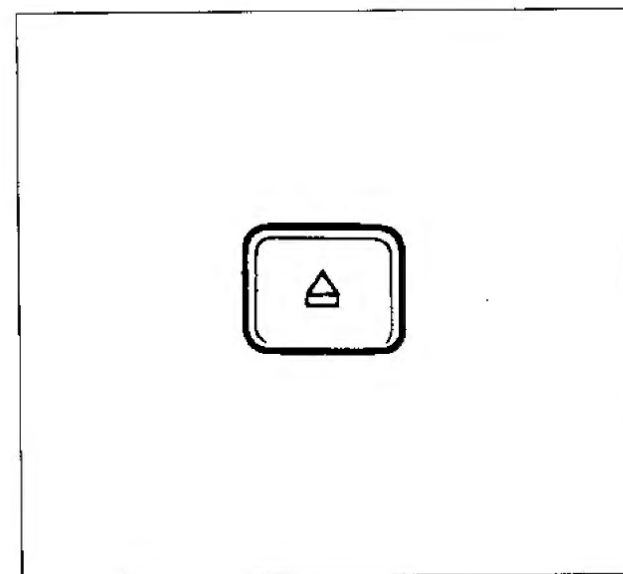
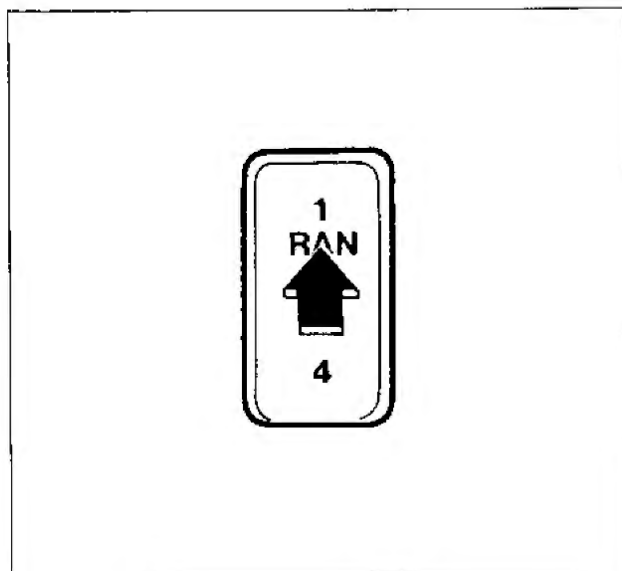
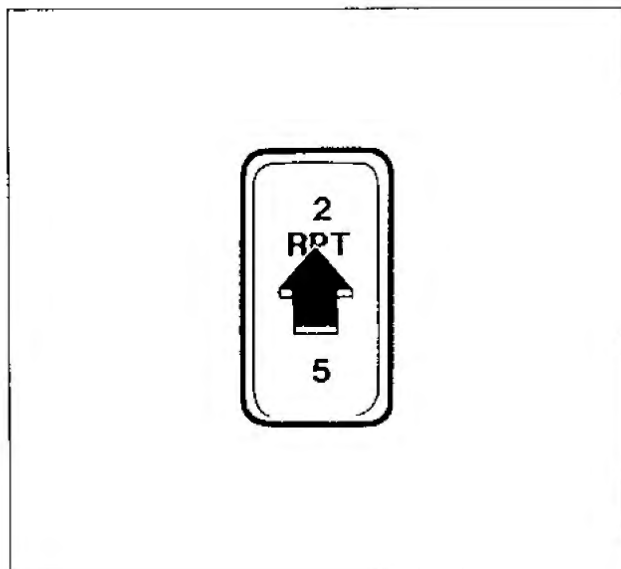
Press RAN once again to cancel random play operation.

### NOTE

Since selections are played back in random order, the same selection may be played back twice in succession.

## 22. CD EJECT

The compact disc can be ejected at any time by pressing CD EJECT.



### 23. SCAN

This operation helps in locating a specific program by playing approximately the first 10 seconds of each selection.

Press SCAN during play to start scan operation. SCAN will be displayed.

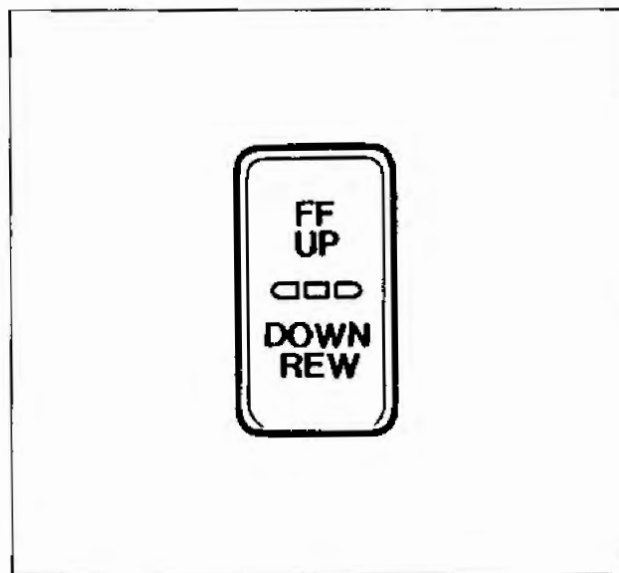
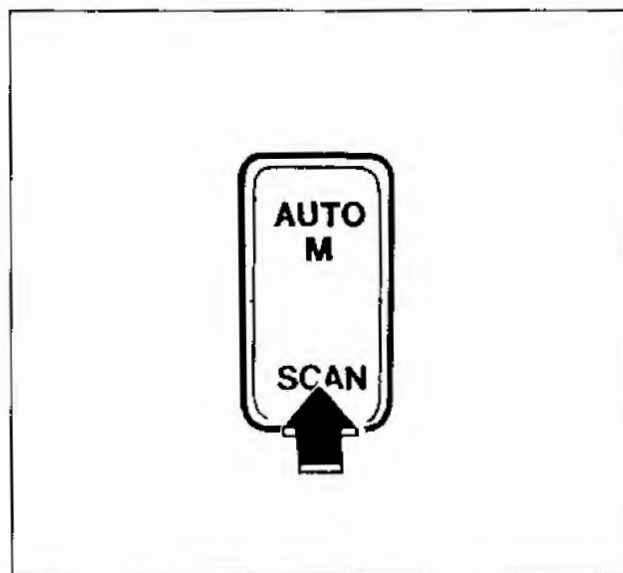
To cancel scan operation, press SCAN again.

#### NOTE

If the unit is left in the scan function, normal play will resume when the beginning of the selection from which scan was initiated is reached.

### 24. TRACK SEARCH—FAST FORWARD/REVERSE

Press FF/REW lightly to search for a specific selection (track number). Each press of the FF increases the track number. Track number will be displayed. Pressing REW decreases the number. Holding the button pressed will cause the program to change at high speed. The sound will be audible at a reduced loudness level.



### GRAPHIC EQUALIZER (if equipped)

The graphic equalizer is an expandable tone control which gives the user a more finite control of the tonal response of the entertainment system. Each of seven frequency ranges are adjustable. This greater flexibility enables the user to tailor the sound to his/her individual taste.

There are three ways to select the desired tonal response:

Preset sound: Preset in unit.

Memory: Set into memory by user.

Manual: Set by user.

### NOTE

When the equalizer is on, the Bass/Treble knob has no effect on sound quality.

### Spectrum Analyzer/Equalizer Mode Selector

#### Spectrum analyzer mode

Pressing the button to the spectrum analyzer mode enables the user to see the frequency band output of the music being listened to in this mode selected.

#### Equalizer mode

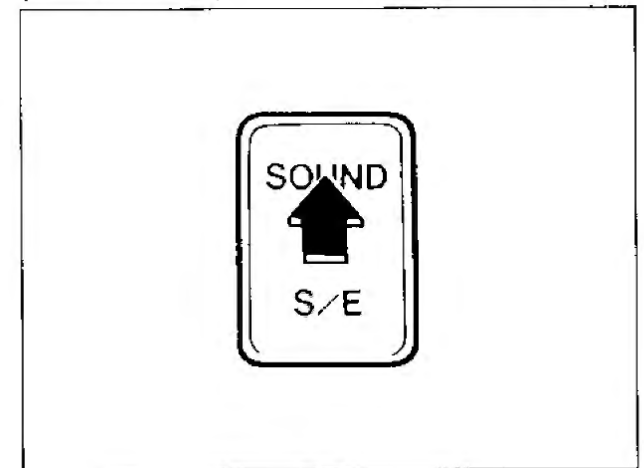
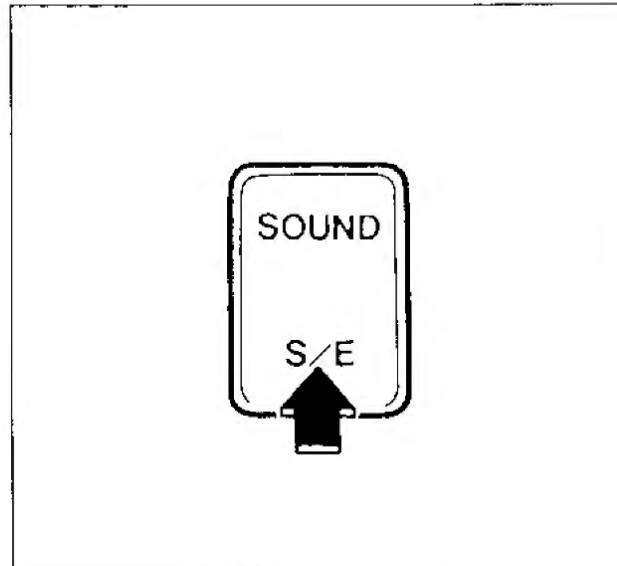
Pressing the button to the equalizer mode enables the user to see the selected adjustment level of the various frequency ranges in this mode selected.

### Preset Sound Selector

Pressing the button to the preset sound mode allows the user to select the output characteristics for the type of music being played. There are five selections that fit the average listener's expectations.

SETTING	CHARACTERISTICS
JAZZ	Extended high range and emphasized transient response.
ROCK	Characteristics adapted to high speed, intense sonic changes.
CLASSIC	Balanced response for different instruments together with a sense of scale and impact of a large performance hall.
POPS	Slight echo for emotional response in vocals.
VOCAL	Vocals reproduced with maximum fidelity.

These are only suggested positions. No damage will result to the sound system if the sound selector is not set to match the music (i.e., VOCAL position for classical music).



### Defeat/Light ON-OFF Selector

To control operation of the graphic equalizer, press this button to select defeat mode ON or OFF.

Defeat is shown in the equalizer display when selected.

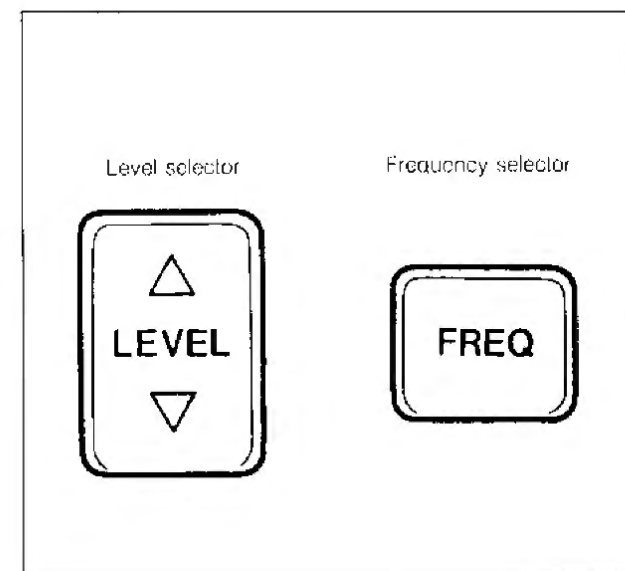
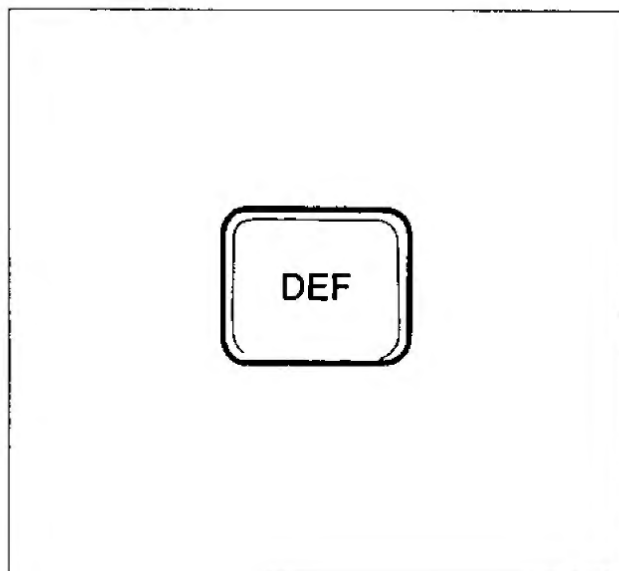
Hold the button for about two seconds to select ON or OFF of the graphic equalizer display.

### Manual Adjustment of Frequency Bands

1. Press the Frequency Selector to change the unit to the manual adjustment mode regardless of the previous mode selected.
2. Select the band to be set. Each subsequent press of the button selects a band from 60 to 10K. The indicator bar of the band selected will flash for about 30 seconds.
3. Adjust the output level of the selected band up or down by pressing the Level Selector within 30 seconds.

### NOTE

- The level changes one division of the scale each time the button is pressed.
- The output frequency remains as adjusted until canceled by pressing the Memory or Preset Sound Selector.



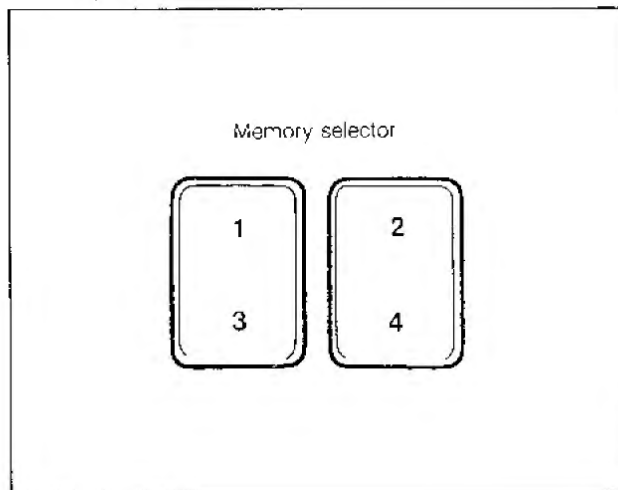
## Setting Memory

Four adjustable memory selections are available to set for recall manually adjusted frequency range output patterns. These can be used in addition to the preset ranges.

1. Press the Frequency and Level selectors to adjust the bands as desired as outlined.
2. Press either Memory Selector button for at least two seconds until M1—M4 appears on the equalizer display. Set M1—M4 as desired.
3. Press the desired number button to recall the memorized pattern after setting.

## NOTE

The output frequency remains as selected until the Preset Sound or Frequency Selector is pressed.



## Frequency range explanations

### 60 Hz

This controls the super low frequency sounds. This can prevent masking caused by road noise.

### 125 Hz

This controls the low frequency range. It can be used to accentuate bass sounds. In addition, by lowering this frequency range, muddled sound response from the speakers is minimized.

### 250 Hz

This controls the mid/low range which is the central area for musically rhythmic instruments, such as the drum and bass.

### 500 Hz

This controls the mid range frequencies which are the central area for most musical instruments and human voices.

### 1 kHz

This controls the mid range (above 500 Hz).

### 3 kHz

This controls the frequency range that significantly affects hearing perception. When the frequency range is too high, it will produce a hard and metallic sound.

### 10 kHz

This controls the higher frequencies. It can be used to improve the sheen and clarity of sound reproduction.

## PASSENGER SELECTOR SWITCHES (Except convertible top models, if equipped)

These switches are used to make corrections in the sound's characteristics and its location within the automobile according to the number of passengers.

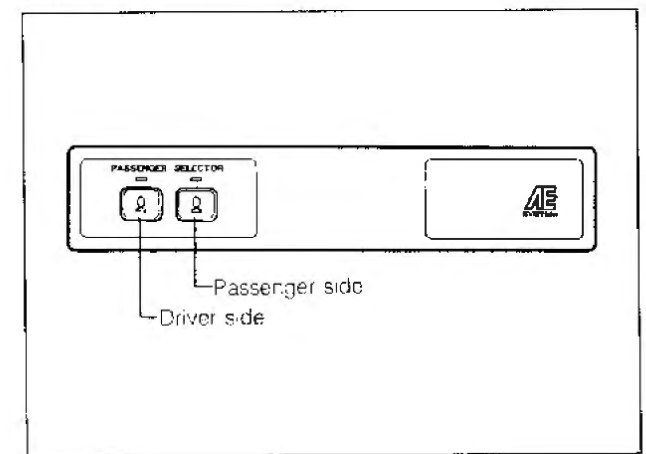
### Passenger selector switch (driver side)

This switch should be switched ON to adapt the sound's location to the driver. (The indicator will light.)

### Passenger selector switch (passenger side)

This switch should be switched ON to adapt the sound's location to the passenger. (The indicator will light.)

When both switches are switched either OFF or ON, the sound is located at the center of the interior.



## MUTE SWITCH

### (Convertible top models, if equipped)

- Press MUTE to quickly reduce the volume when listening to either the radio or a cassette tape. When MUTE is pressed again, the volume automatically returns to the previous level.
- The MUTE indicator lights during mute operation.

## HEADREST SPEAKER

### (Convertible top models, if equipped)

This audio system is designed to shift the sound image, especially the vocal image, forward for the impression of open space. The buttons in the center console control power, surround, and volume of the headrest speakers.

### Volume

Volume is changed in 33 increments by pressing the volume switch.

## Power switch

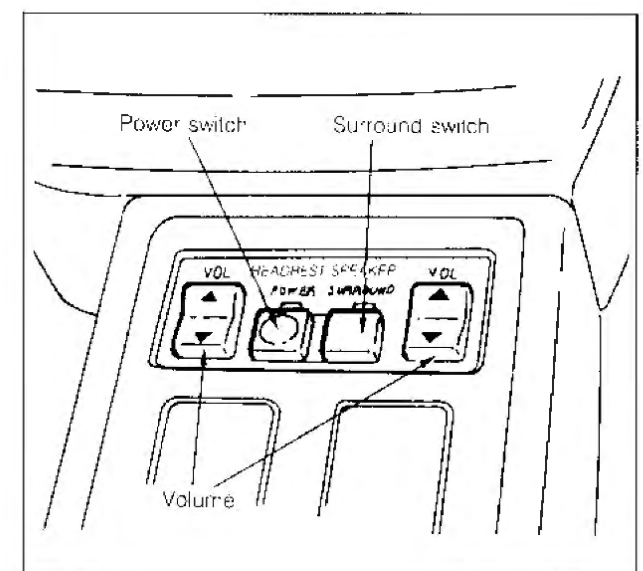
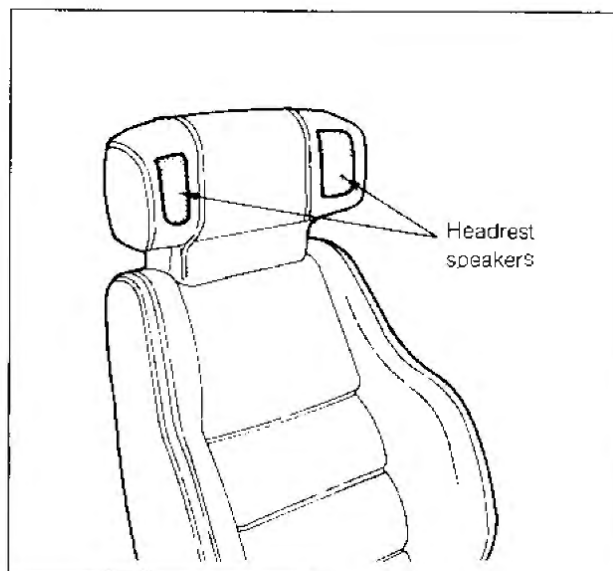
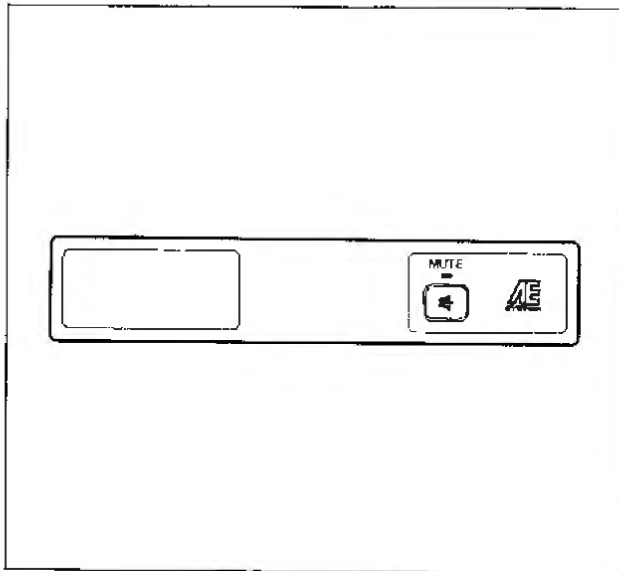
Pressing the power switch turns the headrest speaker ON or OFF.

## Surround switch

Tone quality is changed by pressing the surround switch.

## NOTE

When the fader is in front position, headrest speaker sound is not reproduced. Also, when the fader is in the rear position, treble sound is not reproduced.



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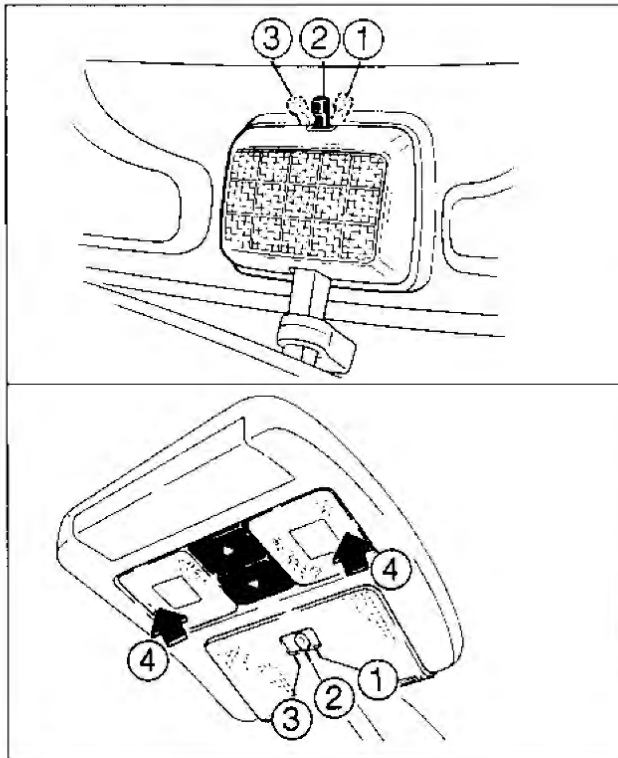
## INTERIOR LAMP AND MAP LAMP (if equipped)

### INTERIOR LAMP

1. OFF —Lamp off.
2. DOOR—Lamp on when door is open.
3. ON —Lamp on.

### MAPLAMP

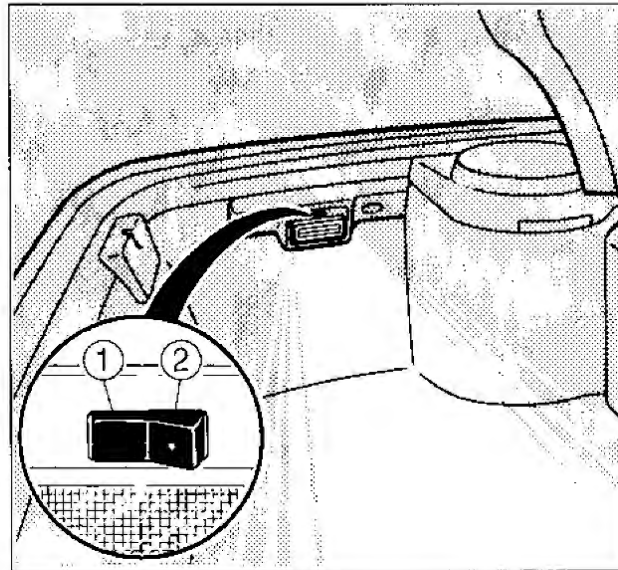
4. The map lamps are switched on or off individually by pushing the outside of each lamp frame.



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## CARGO LAMP (Except convertible top models)

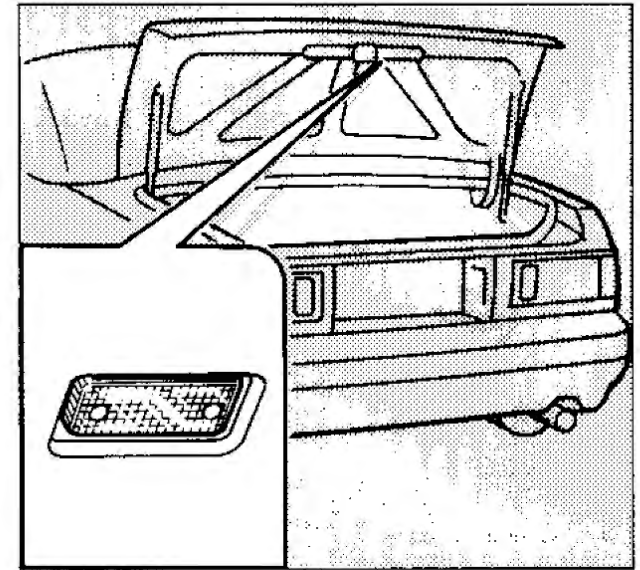
1. OFF —Lamp off.
2. ON —Lamp on when rear glass hatch is open.



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## TRUNK LAMP (Convertible top models)

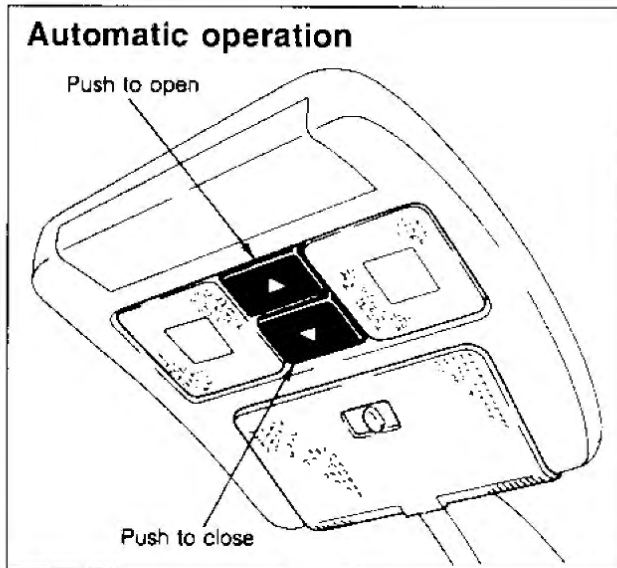
This lamp automatically comes on when the trunklid is opened, and goes off when closed.



## POWER SLIDING SUNROOF (if equipped)

The power sliding sunroof can be either tilted up or opened and closed electrically. To tilt up, press the rear button and the panel will tilt up. Release the button and press it again to slide the roof open. The sunroof can be partially opened to any position simply by releasing the button when the desired opening is reached.

To close, press the appropriate button, as illustrated.



### NOTE

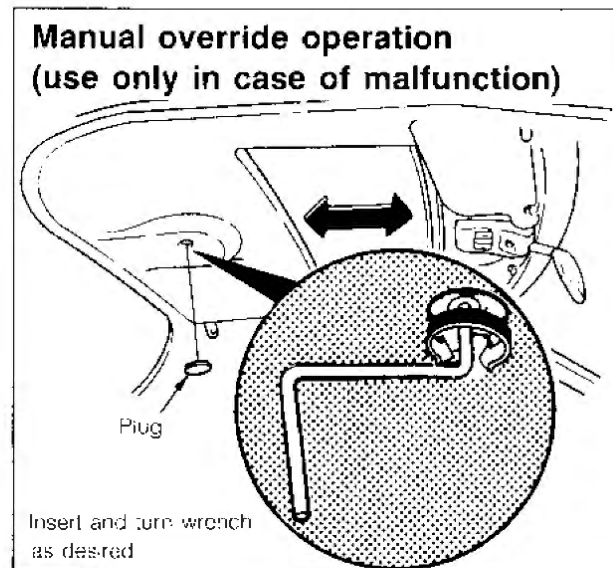
- Release the switch as soon as the sunroof slides fully opened or closed. If kept on, the sunroof may be damaged.
- Make sure that the sunroof is fully closed when leaving the vehicle unattended.
- Do not open the sunroof soon after it has rained or after the vehicle has been washed, as the water remaining around the edges may drip down inside your vehicle.

### NOTE

- Periodically remove any dirt that may have accumulated on the guide rail.
- If the sliding sunroof malfunctions, it can be opened or closed manually with the hex-head wrench furnished in the glove box. See the illustration for additional details.

### **WARNING!**

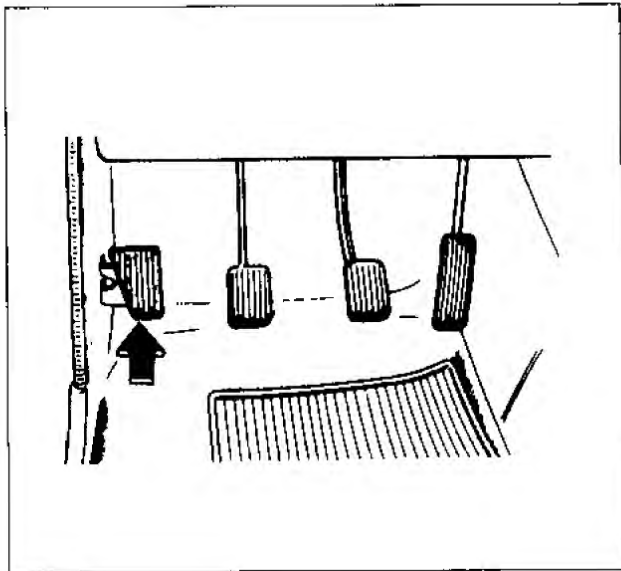
Do not put head, arms, etc. out of the sliding sunroof when the vehicle is moving.



67U3-06C0E

## FOOT REST (if equipped)

A convenient foot rest is provided for the driver's left foot.

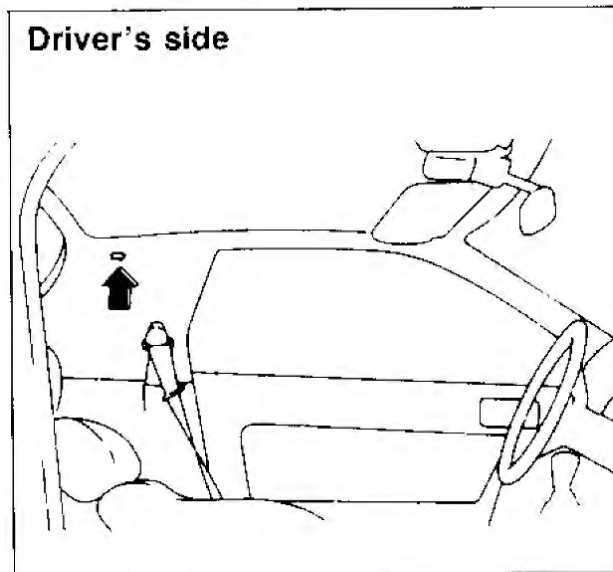


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## COAT HOOK (Except Convertible top models)

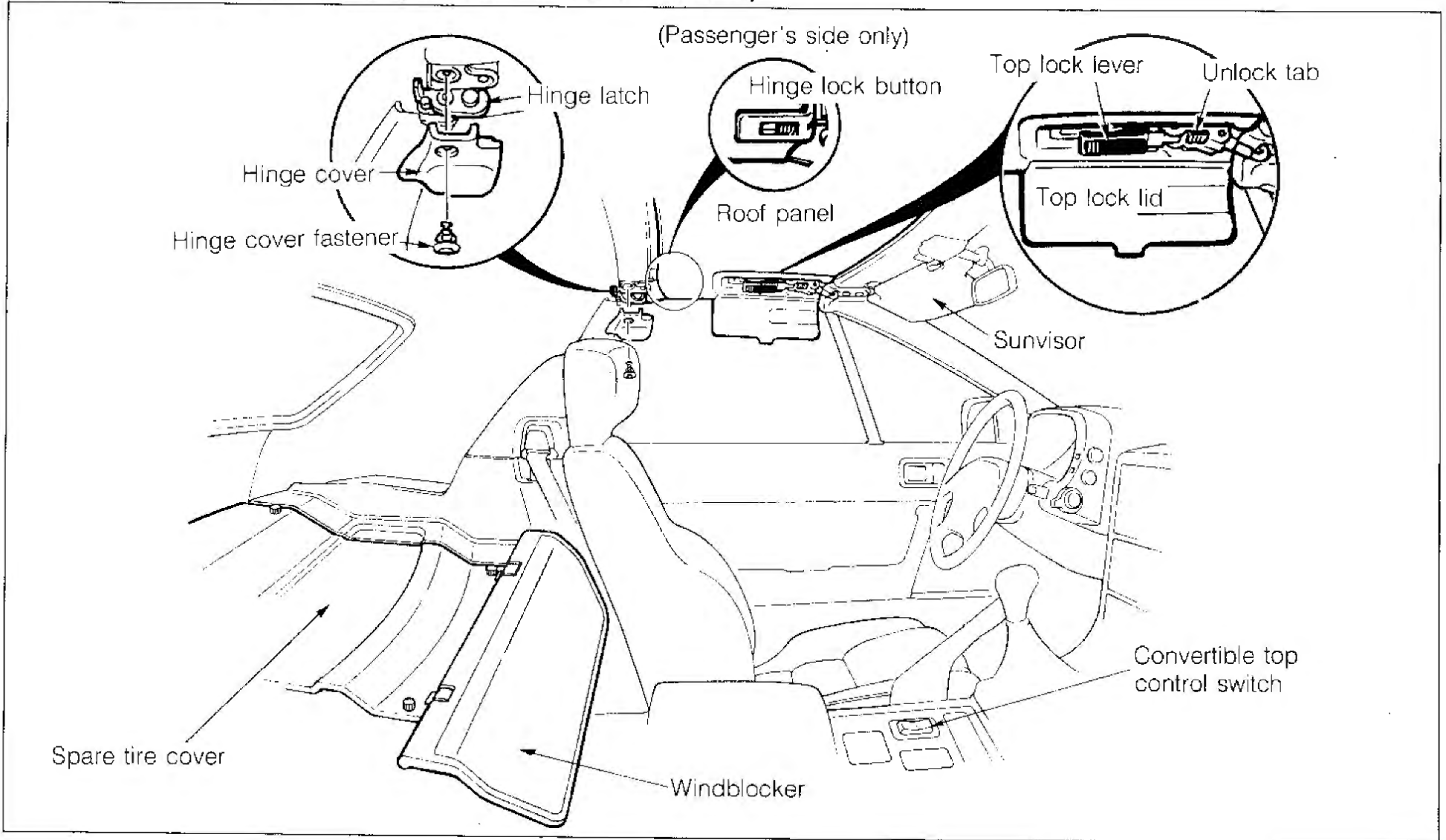
### **WARNING!**

Do not hang anything on the coat hook in such a manner that the driver's view is obstructed.



# CONVERTIBLE TOP

Names of parts involved in the operation of the convertible top.



### **Convertible top precautions**

Be sure to read the following precautions prior to convertible top operation.

- Before lowering or raising the top, be sure to park on a level surface and stop the vehicle in a safe place out of the way of traffic.
- Operation of the convertible top is possible with the ignition switch in the ON position (and with the parking brake set). However to prevent the battery from discharging, it is best to operate the top while the engine is running.
- Take care so that objects inside the vehicle are not blown away by the wind when the top is lowered.
- Do not permit passengers to stand while the vehicle is in motion.
- Do not sit on the folded convertible top. Sitting or placing objects on the folded top could result in bodily injury from a fall, or damage to the top.
- To prevent burglary and vandalism of the vehicle, and to insure that the passenger compartment does not get wet in the event of sudden rain, close the top securely and lock all doors whenever leaving the vehicle.
- Do not operate the convertible top when the temperature is below 41 °F (5°C), as this will damage the top material.
- When lowering the convertible top, make sure the rear defroster switch is turned OFF.
- Do not lower the convertible top when it is wet. It can cause deterioration and shrinkage of the top if allowed to dry while folded. Lowering the top while it is wet can cause water to drop into the passenger compartment, resulting in mold or mildew.
- When the convertible top is lowered or the roof panel is opened, be careful not to hurt yourself against the edge of the front pillar while getting in or out of the vehicle.

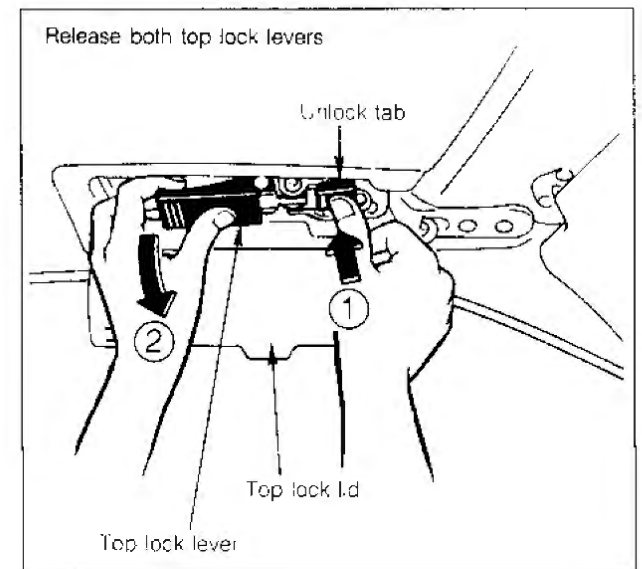
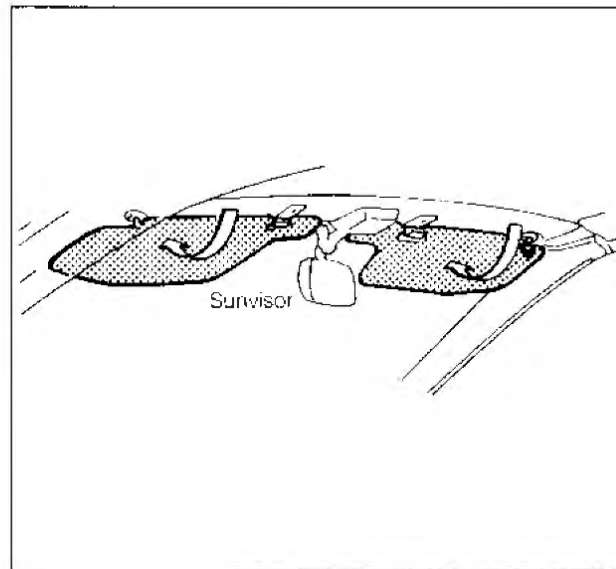
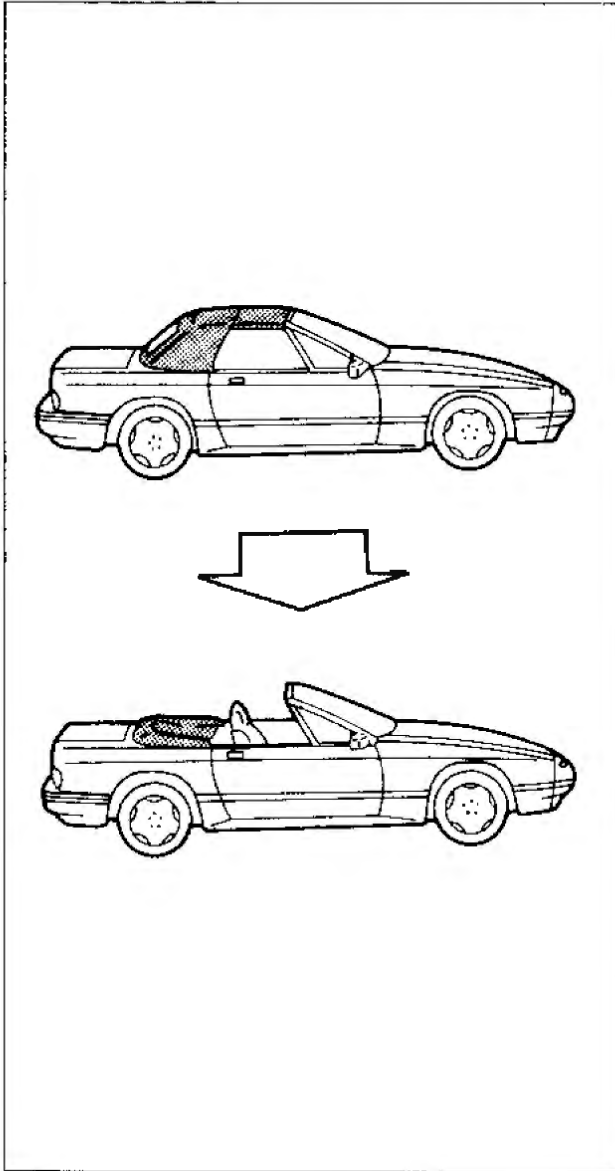
### **Convertible top warning beeper**

The convertible top has two sound warning systems, as described below.

1. **Operating sound**  
When activating the switch, a slowly repeating beep will begin to signal the convertible top's operation. Operation of the convertible top switch will begin about three seconds after the switch is activated.  
A 1-second long beep will sound when the top is fully lowered or raised.
2. **Warning sound**  
When the parking brake is not set or if the switch is activated when the vehicle is in motion, a rapidly repeating beep will warn that the convertible top cannot be lowered or raised under these circumstances.

## LOWERING THE CONVERTIBLE TOP

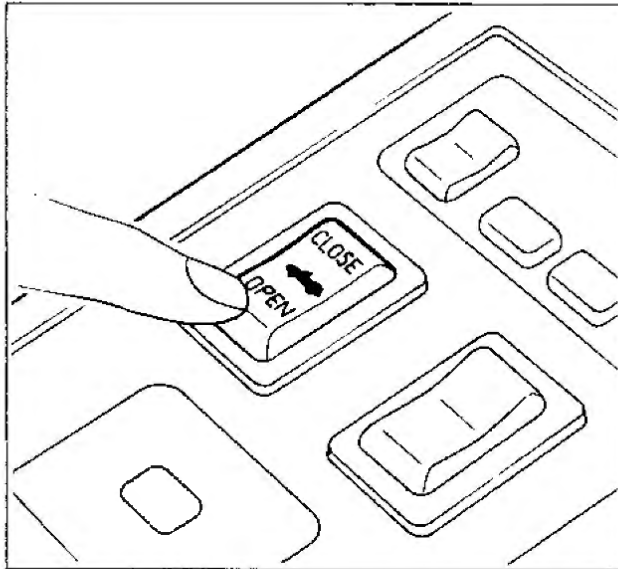
1. Set the parking brake and shift the transmission select lever to NEUTRAL.
2. Turn the ignition switch to the ON position.
3. Lower the side windows.
4. Pull down the sunvisors.
5. Remove all objects on the spare tire cover when lowering the convertible top, otherwise the top or the objects on the spare tire cover could be damaged.
6. Open both top lock lids. Push the unlock tabs and release top lock levers.



7. Press and hold the OPEN side of the convertible top control switch until the beeping stops. When the convertible top is lowered about one-third of the way, however, lowering action will stop as a safety check. At this time, release the switch and after making sure operation is safe and normal, you may press the switch once again and complete lowering.

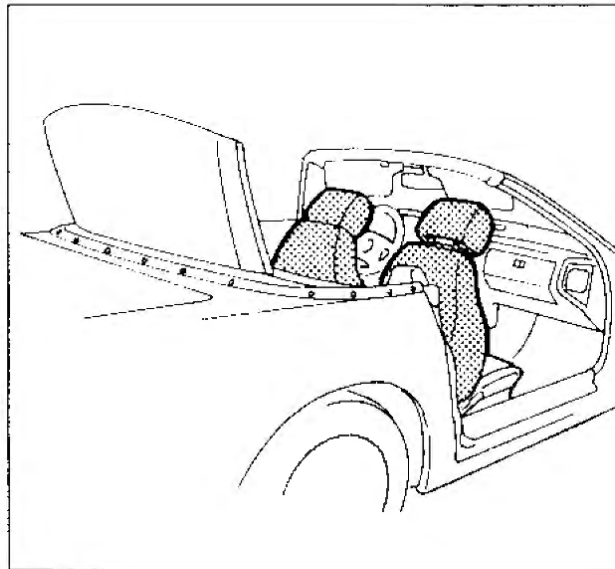
**NOTE**

Even if you press the convertible top control switch, the convertible top cannot be lowered (or raised) when the parking brake is not set (the warning sound will be heard), (See page 3-63, convertible top warning beeper)



8. Fold the roof panel forward as described in the following steps:

- 1) Fold the seatbacks forward to prevent contact with the roof panel.



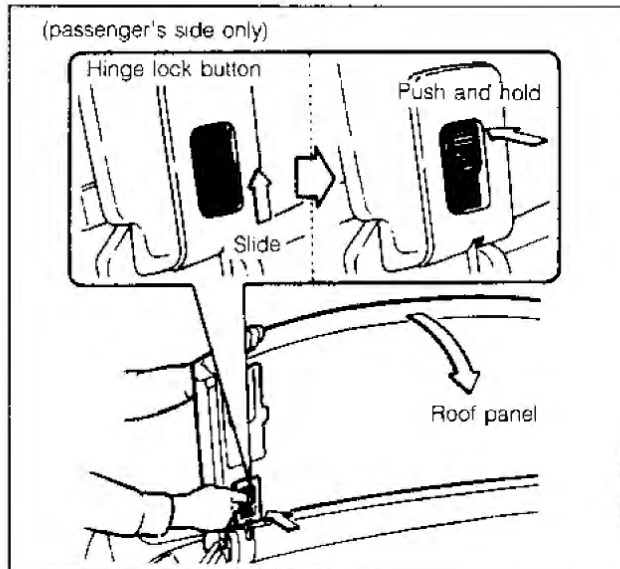
- 2) Retract both top lock levers to LOCK position, then close the top lock lids.

**CAUTION**

Never fold the roof panel without retracting both top lock levers to LOCK position and closing the top lock lids, otherwise the inner trim will be damaged.



- 3) Slide the hinge lock button (passenger's side only) in the direction of the arrow.  
Push and hold the button, then fold the roof panel slowly forward.



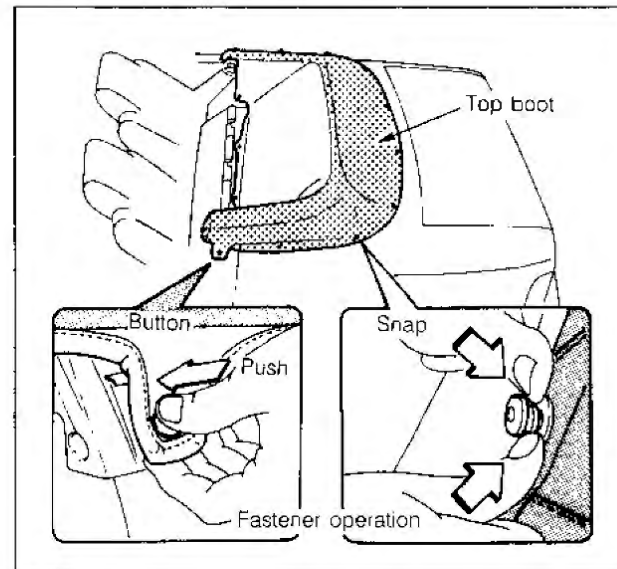
9. Cover the convertible top with top boot stored in the trunk. Affix it to the snaps and buttons provided.

#### CAUTION

- Never activate the switch when the top is covered. This will damage both the boot and the convertible top motor.
- Never drive with the top partially folded and uncovered.
- Press the snaps on as shown to prevent breaking the snaps. Do not press the tops of the snaps.

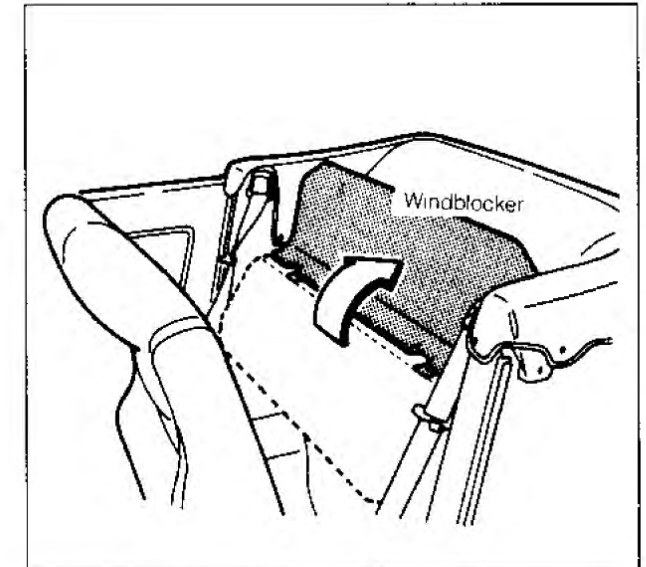
#### NOTE

Place the top boot on the convertible top whenever it is fully lowered.

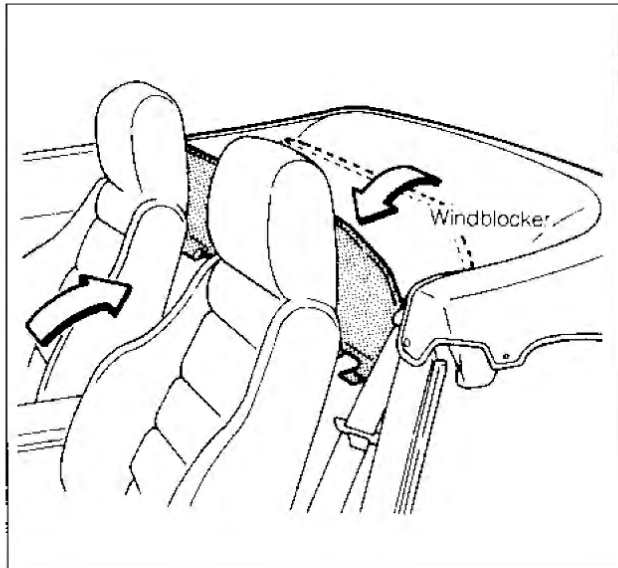


10. To minimize the air turbulence inside the passenger compartment, and to improve heating capability in cold weather driving, raise the windblocker located hinged at the spare tire cover behind the seats as described below;

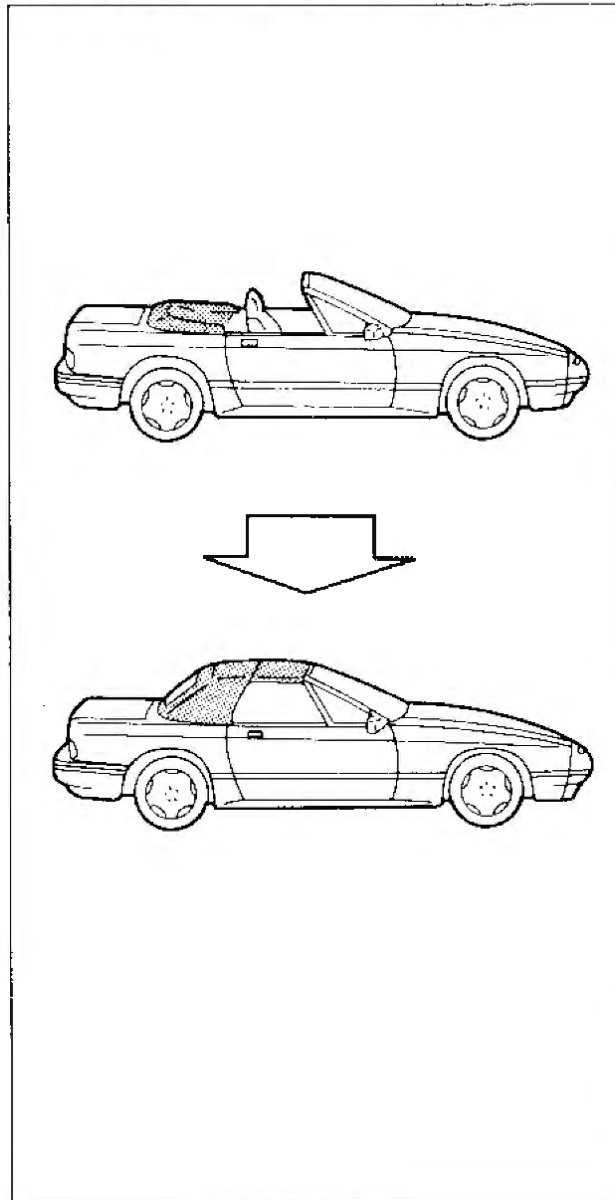
- 1) Lean the seatbacks forward.
- 2) Lift the windblocker to its rearward position.



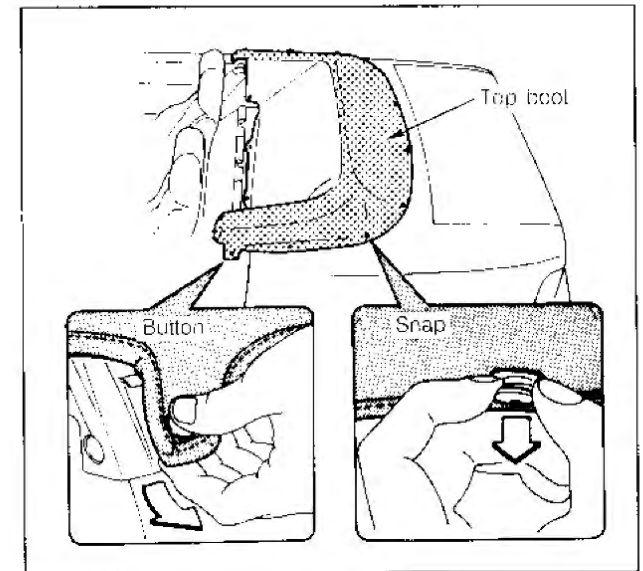
- 3) Raise the seatbacks to their original positions.
- 4) Lean the windblocker against the seatbacks.



### RAISING THE CONVERTIBLE TOP



1. Set the parking brake and shift the transmission select lever to NEUTRAL.
2. Undo the snap fasteners, remove the top boot and store it properly in the trunk.



3. Turn the ignition switch to the ON position.
4. Lower the side windows.
5. Pull down the sunvisors.

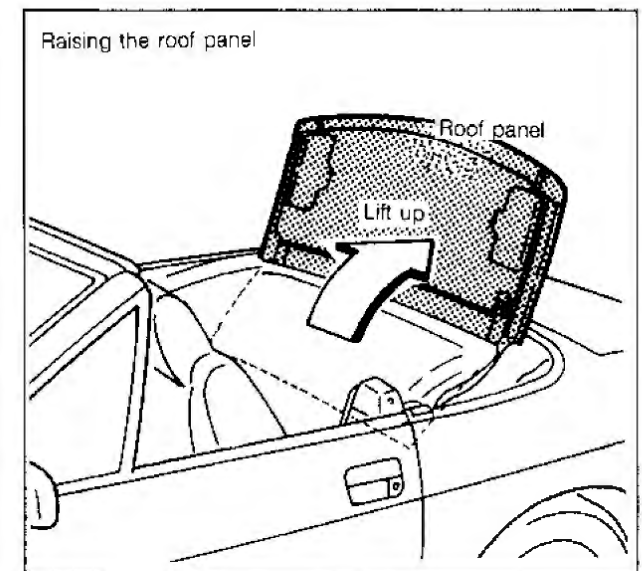
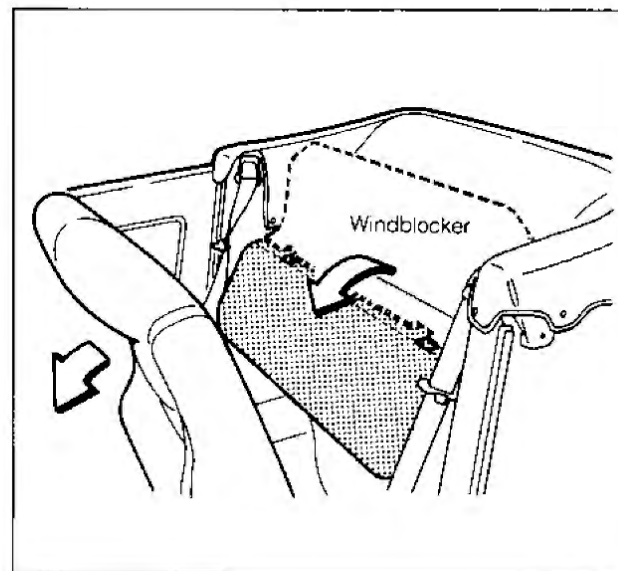
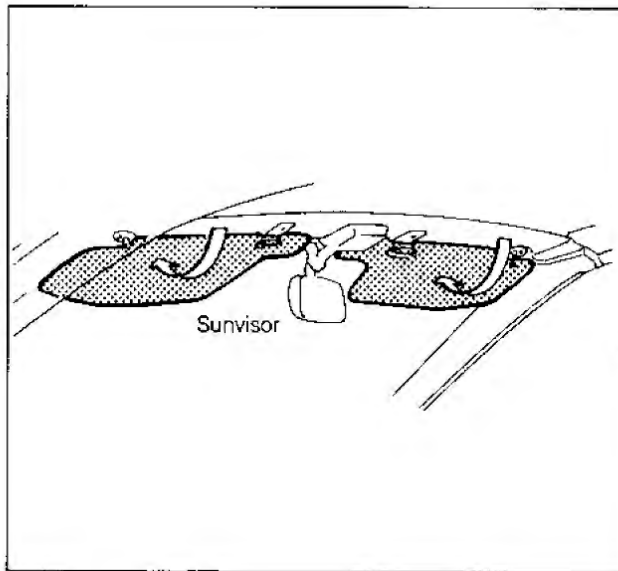
6. Lower the windblocker as described below;

- 1) Incline the seatbacks.
- 2) Lower the windblocker.

7. Lift up the roof panel until it clicks into place.

**NOTE**

If the seats are in the fully reclined position, the roof panel will contact seatbacks and not lift up. In this case, either fold the seatbacks or slide the seats forward.



8. Open both top lock lids. Push the unlock tabs and release the top lock levers.

9. Press and hold the CLOSE side of the convertible top control switch until the beeping stops. When the convertible top is raised about two-thirds of the way, however, raising action will stop as a safety check. At this time, release the switch and after making sure operation is safe and normal, you may press the switch once again to complete raising operation.

10. Retract both top lock levers to LOCK position, then close the top lock lids.

**CAUTION**

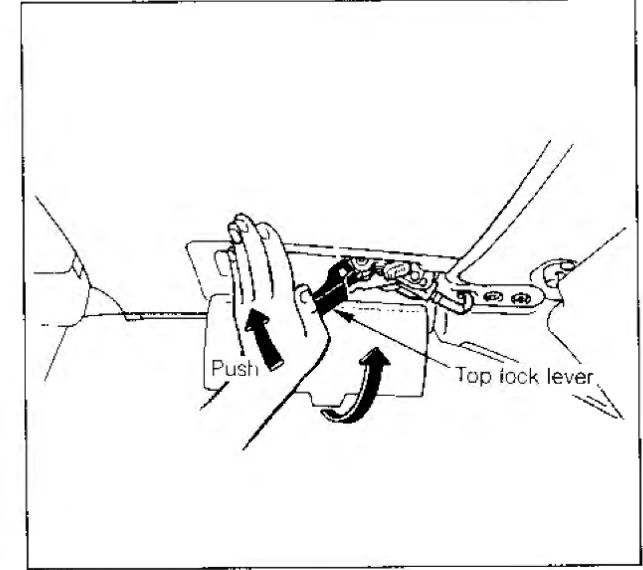
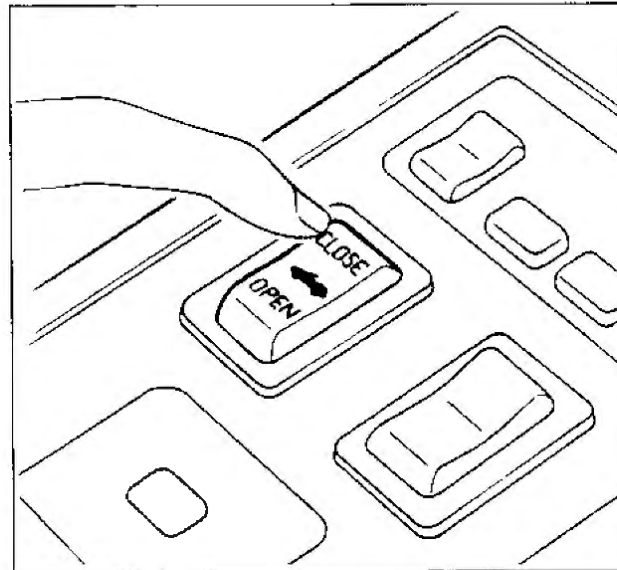
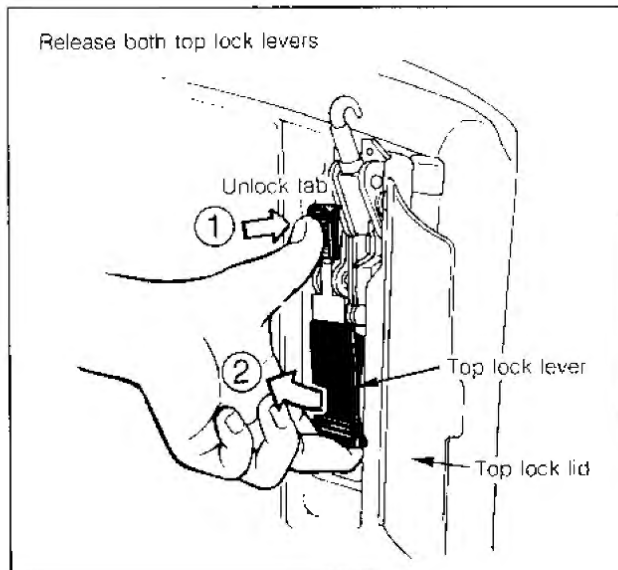
Be careful not to catch your hand in the top lock lever.

**NOTE**

From inside the vehicle, make sure the top is securely locked by the top lock levers by pushing up on the top. If the top is locked by the levers, but nevertheless sounds loose (rattles), have it inspected at your nearest Authorized Mazda Dealer.

**NOTE**

Even if you press the convertible top control switch, the convertible top cannot be raised (or lowered) when the parking brake is not set (the warning sound will be heard). (See page 3-63, convertible top warning beeper)



## OPENING THE ROOF PANEL

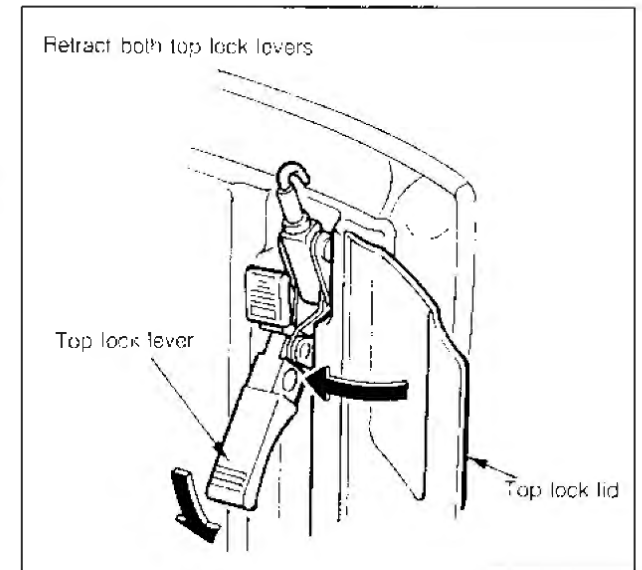
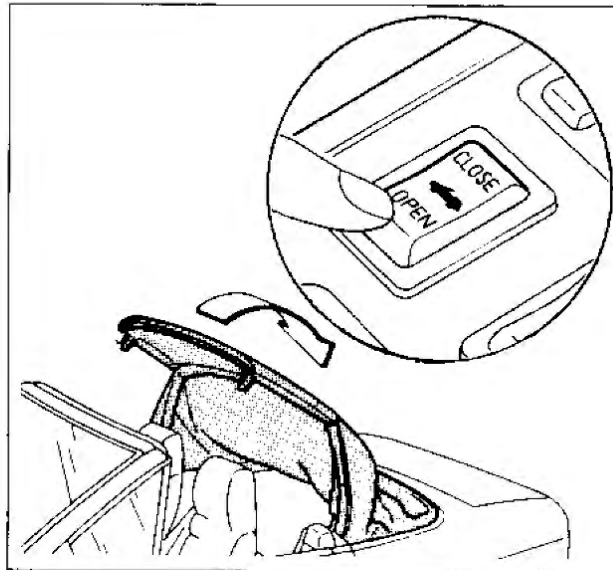
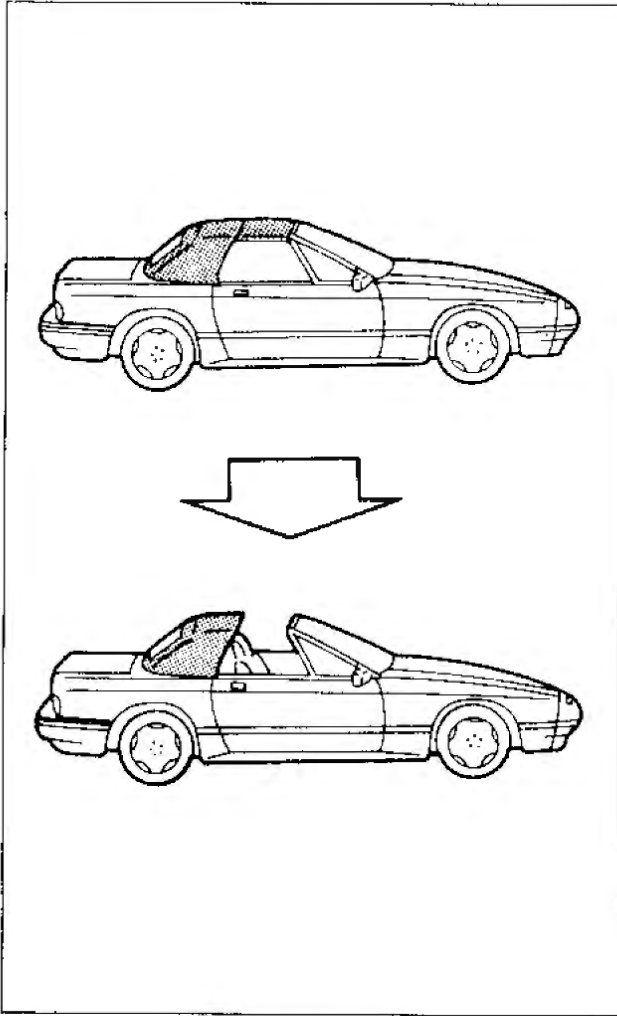
### NOTE

The roof panel is better removed by two persons, one on either side of the vehicle.

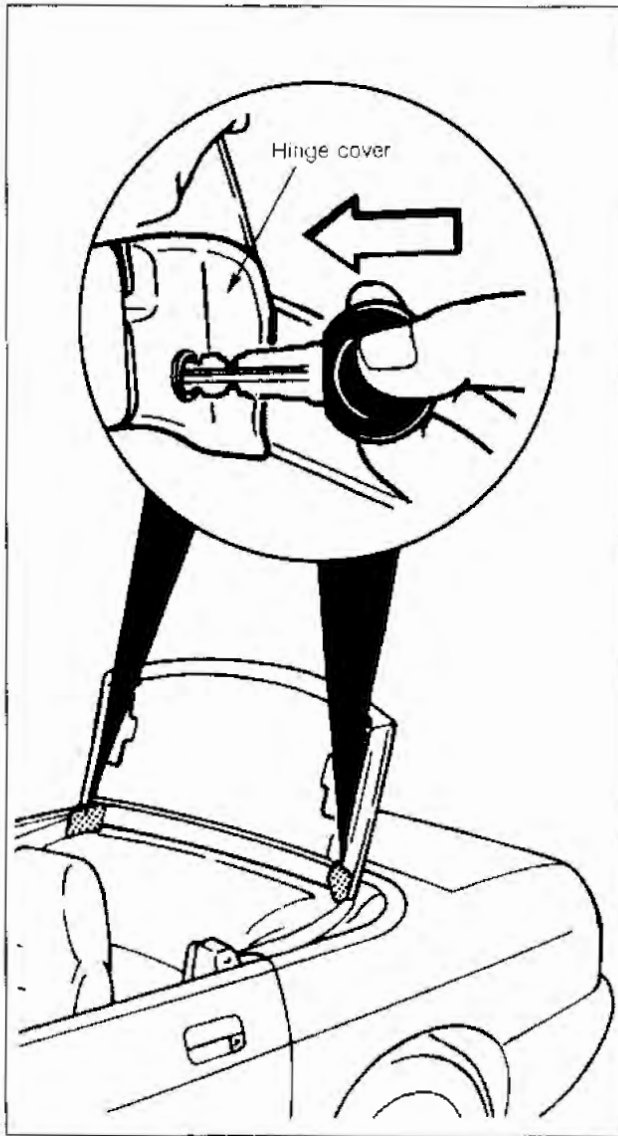
1. Lower the convertible top following steps 1 through 7 on pages 3-64, 3-65.

2. Remove the roof panel as described below.

1) Retract both top lock levers to LOCK position, then close the top lock lids.



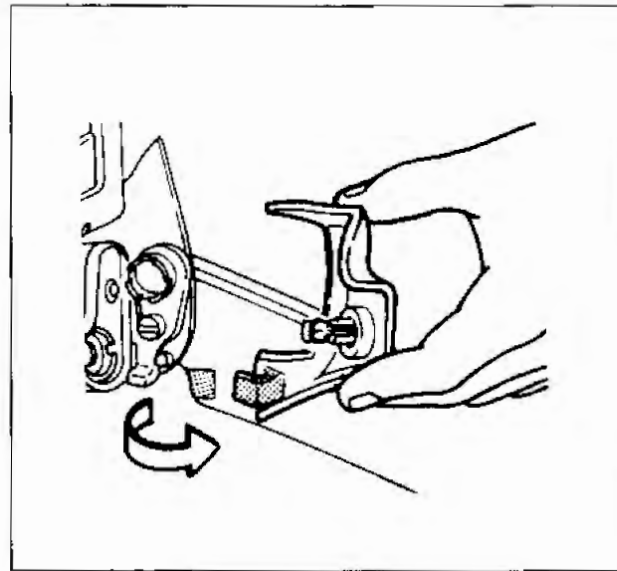
2) Push on the center part of the hinge cover fasteners with the key.



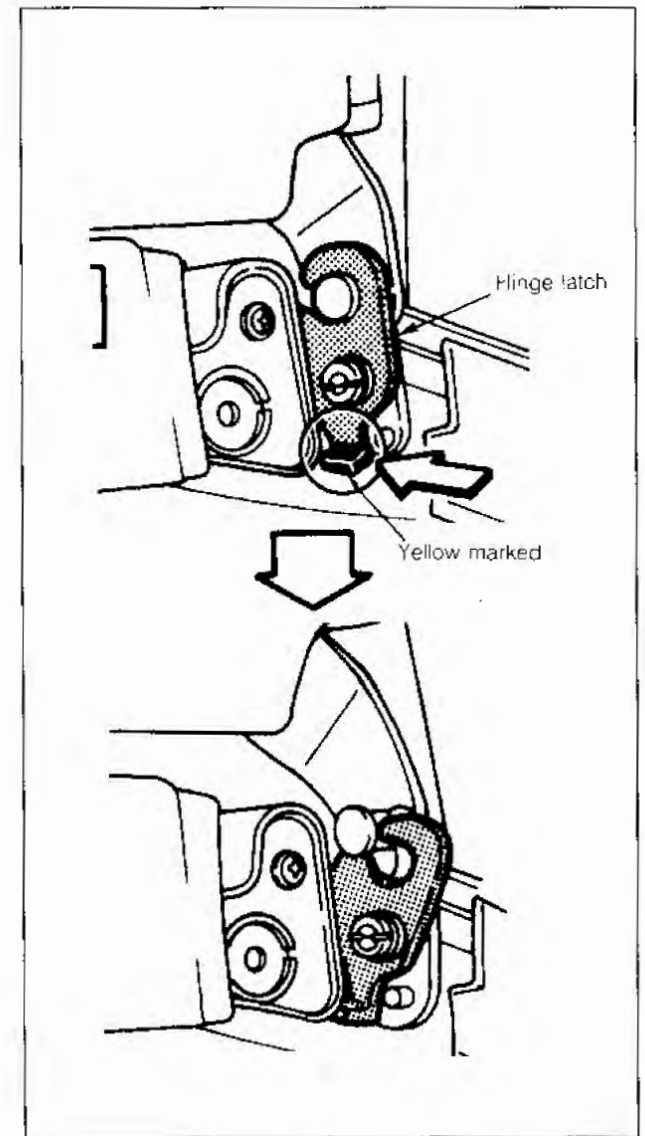
3) Remove both hinge covers, being careful not to drop the hinge cover fastener.

**NOTE**

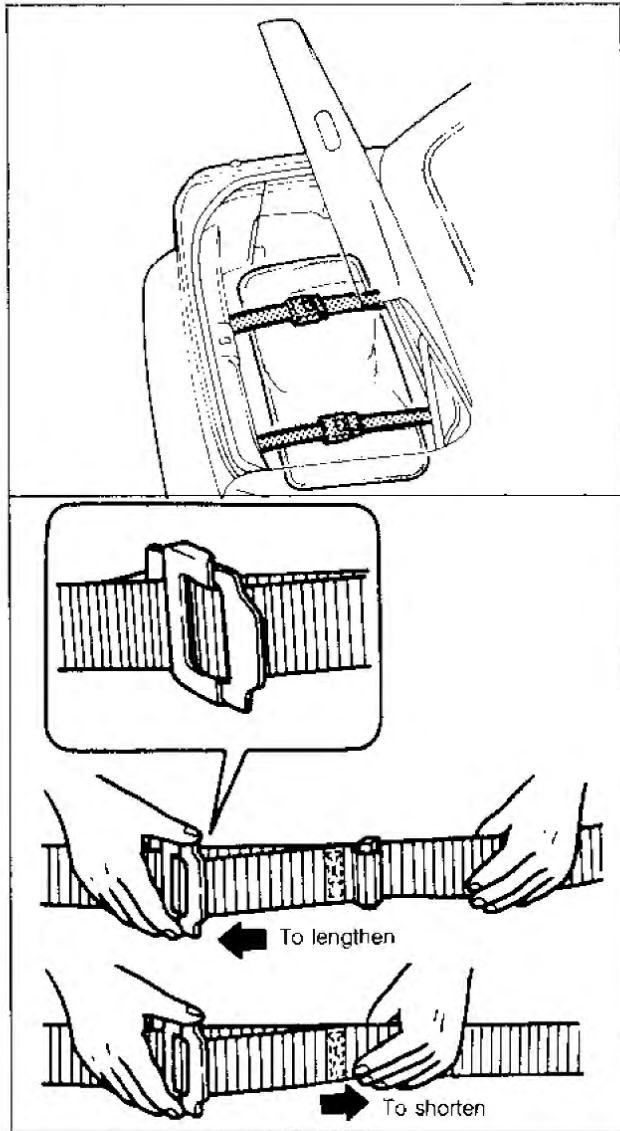
The fastener is small and made out of plastic. Be careful not to step on it,



4) Push both hinge latches (marked in yellow) and release the lock.

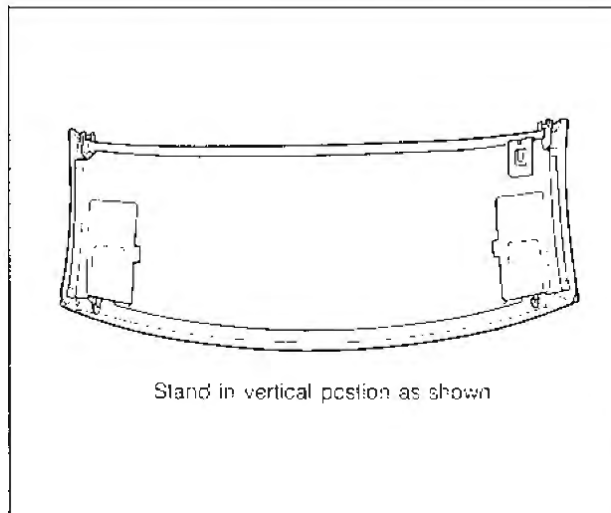


- 2) Secure the roof panel using the trunk room straps.

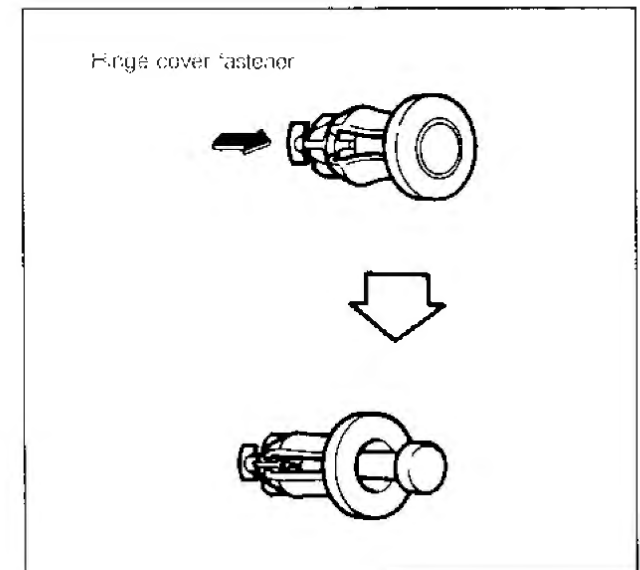


#### NOTE

- If you should sit the panel down temporarily, make sure to stand it only with the top lock lever side facing down as shown in the illustration.
- Storing the roof panel will help keep the panel from being thrown about and injuring people during a collision or sudden maneuver, and will help protect the panel.
- After putting the roof panel back in place, always check that it is firmly stowed. If it is not secure, and looks like it might rattle around in the trunk when the vehicle is in motion, tighten the belts to secure it properly.



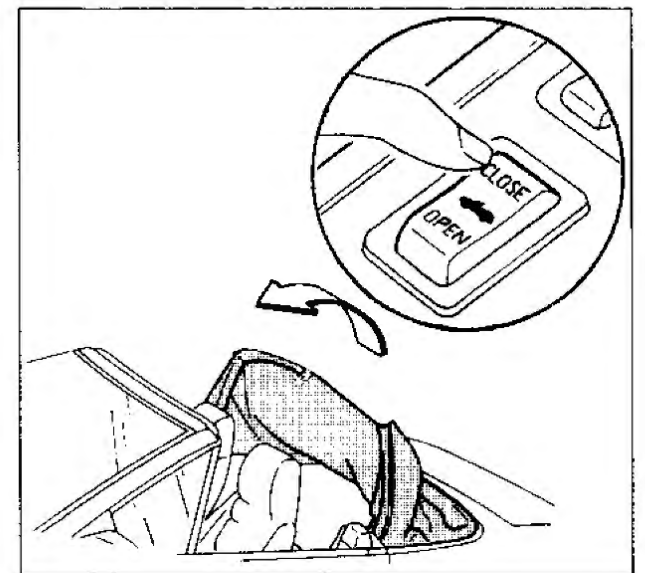
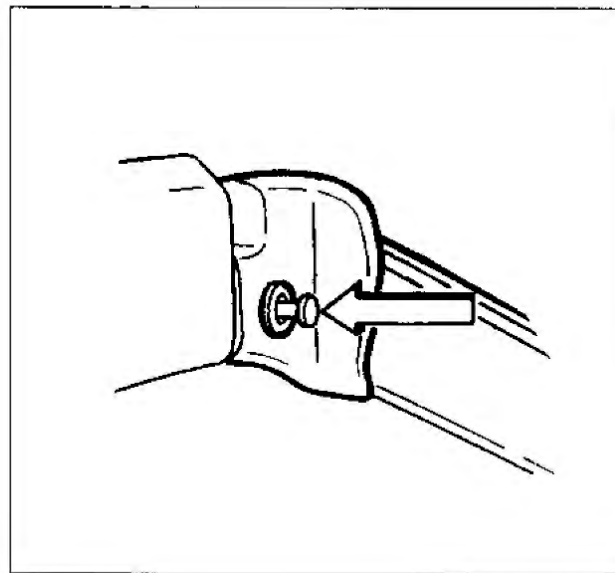
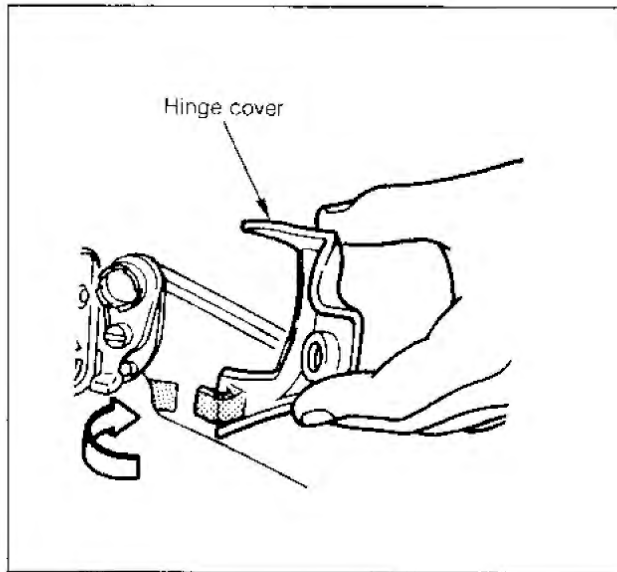
4. Install both hinge covers removed in step 2.
- 1) With your finger push on the part of the hinge cover fastener shown in the illustration.



2) Cover both hinges with the hinge covers.

3) Insert both hinge cover fasteners in the hinge cover holes, then push on the center part of the fasteners.

5. Press and hold the CLOSE side of the convertible top control switch until the beeping stops. When the convertible top is raised about two-thirds of the way, however, raising action will stop as a safety check. At this time, release the switch and after making sure operation is safe and normal, you may press the switch once again.

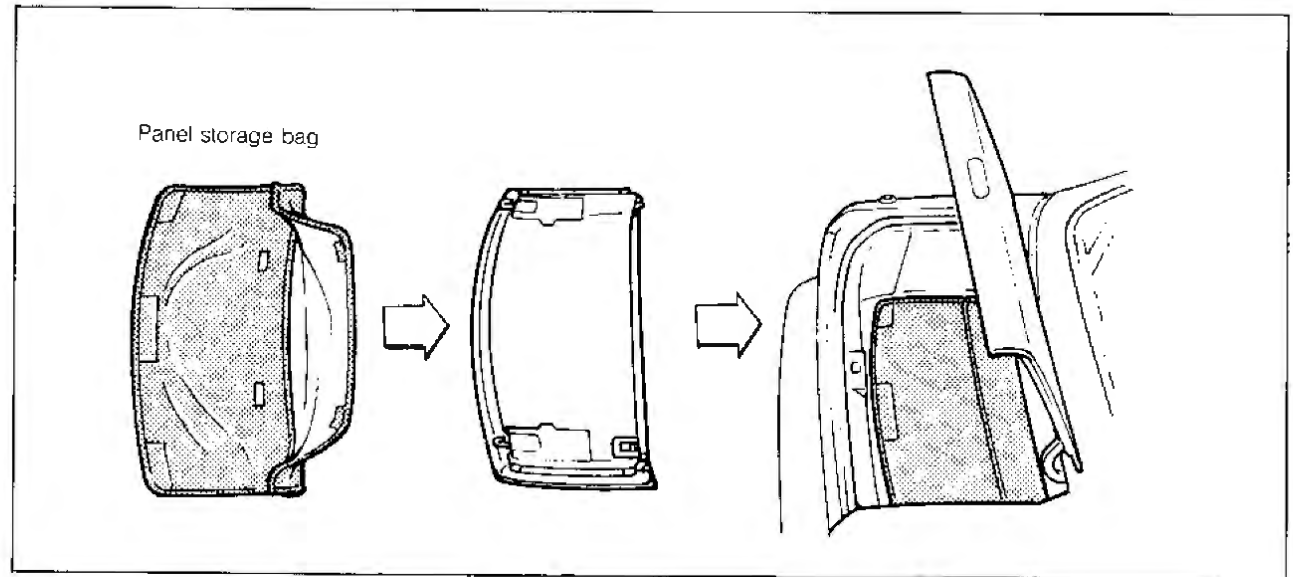
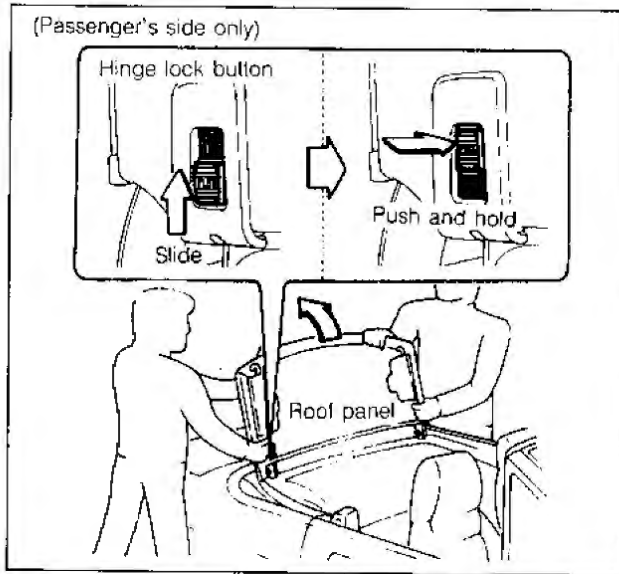


- 5) Slide the hinge lock button (passenger's side only) in the direction of the arrow.  
Push and hold the button, then remove the roof panel from the hinge.

**NOTE**

It is best to use a helper when removing the roof panel.

3. Storing the roof panel.  
1) Put the roof panel inside its cover, and store in the trunk as shown in the illustration.

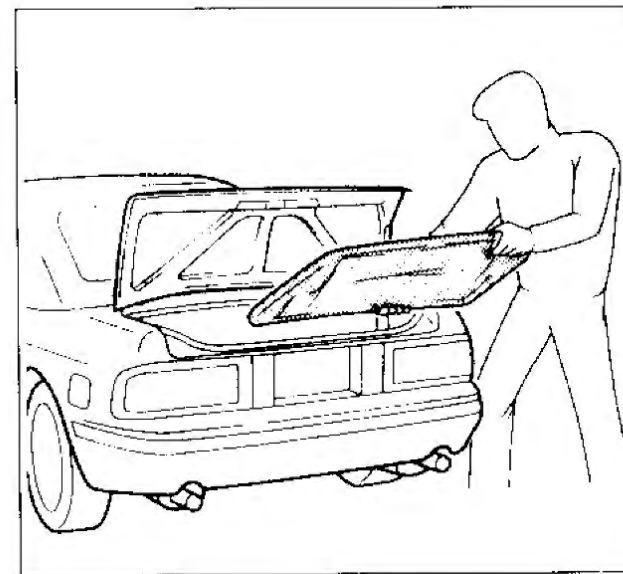
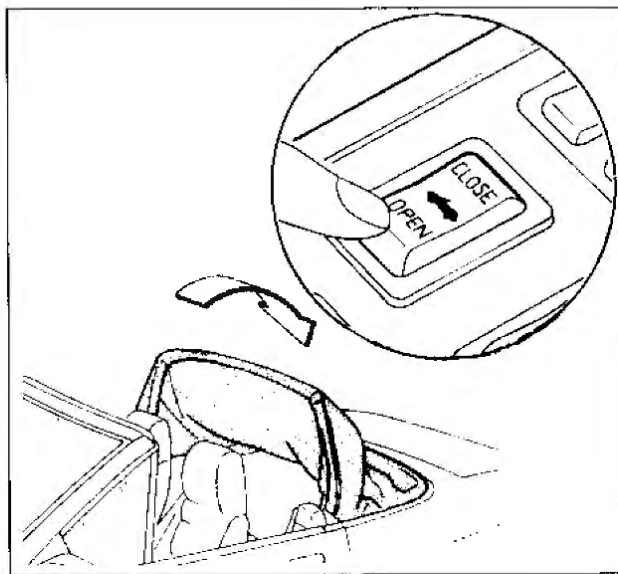
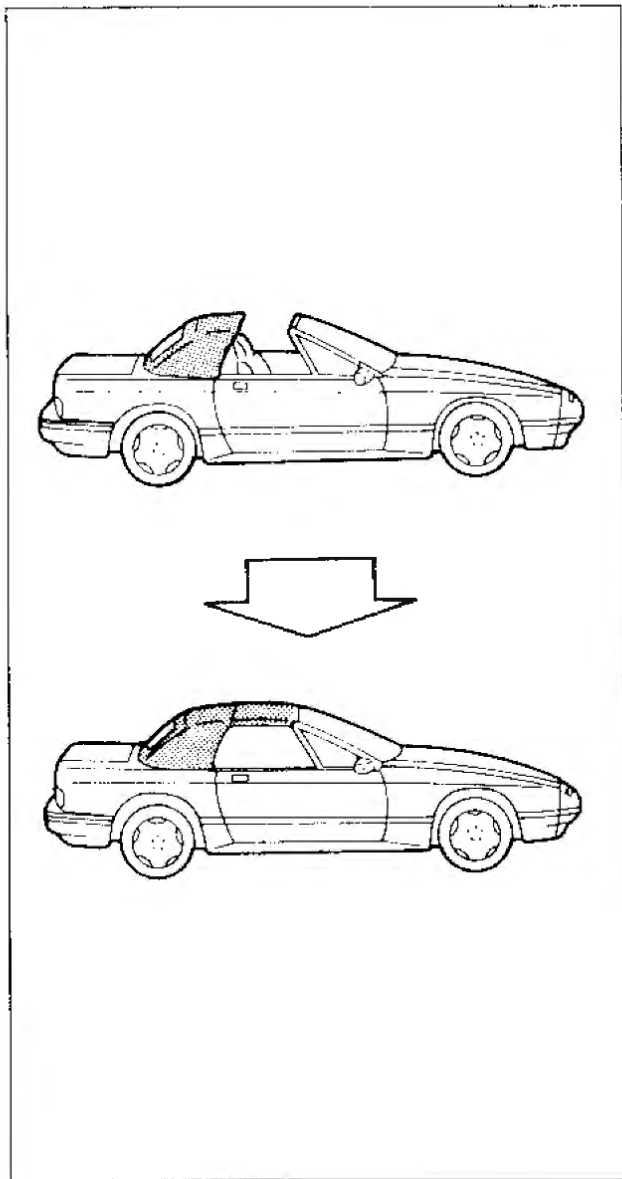


## CLOSING THE ROOF PANEL

1. Lower the convertible top following steps 1 through 5, 7 on pages 3-64, 3-65.

2. Install the roof panel as described in the following steps.

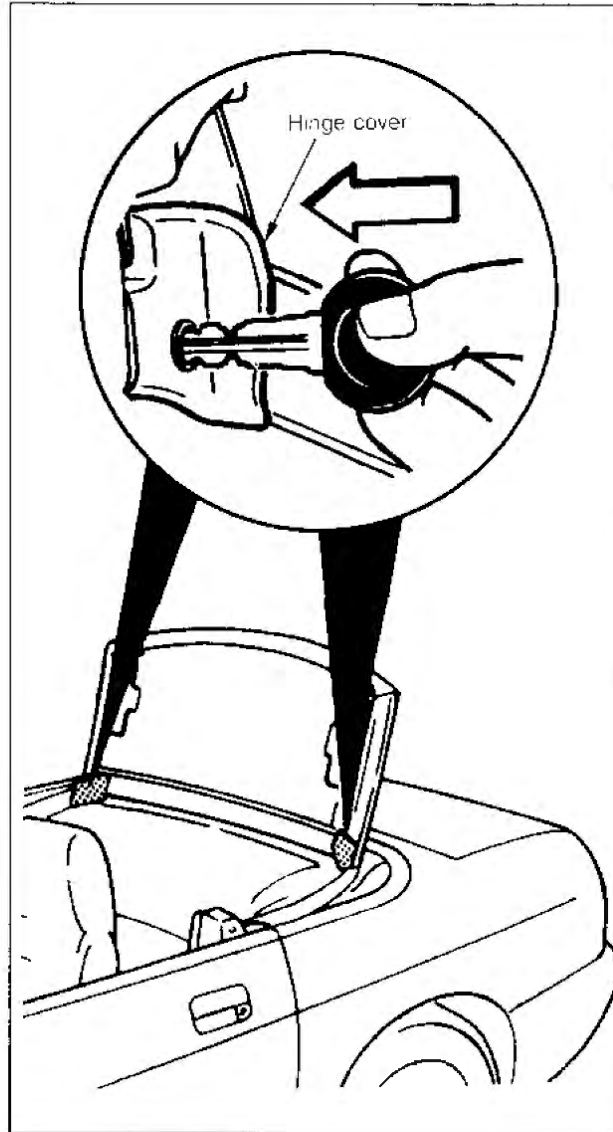
1) Open the trunk and take the roof panel out from its cover.



**NOTE**

If you should sit the panel down temporarily, make sure to stand it only with the top lock lever side facing down, as shown in the illustration.

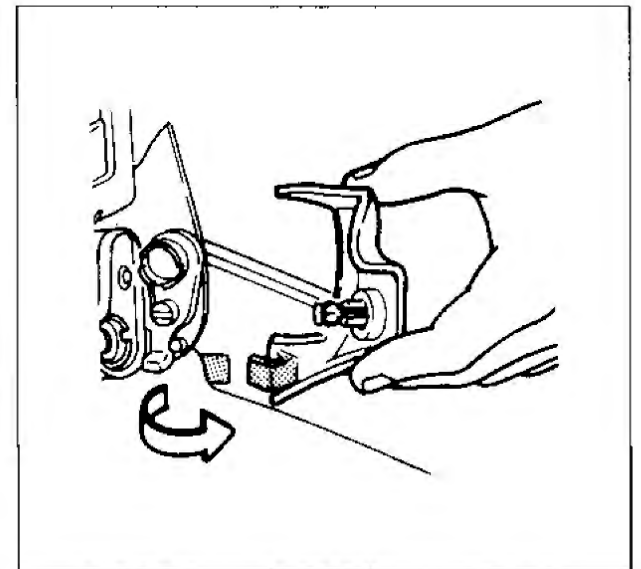
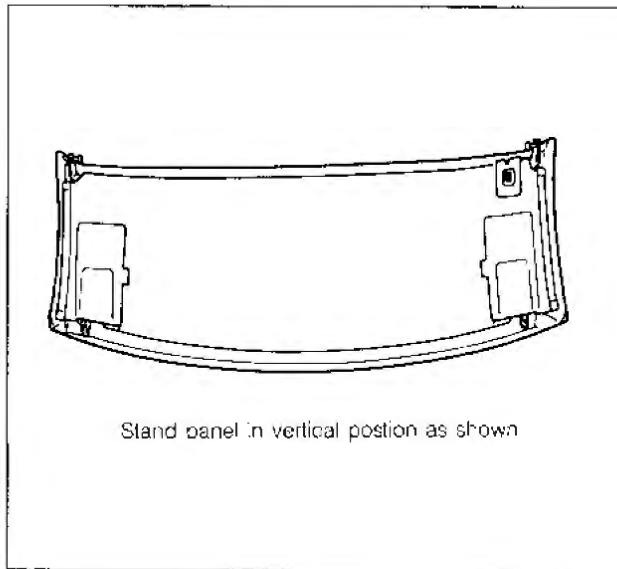
- 2) Push on both center parts of the hinge cover fasteners with the key.



- 3) Remove both hinge covers, being careful not to drop the hinge cover fastener.

**NOTE**

The fastener is small and made out of plastic. Be careful not to step on it.



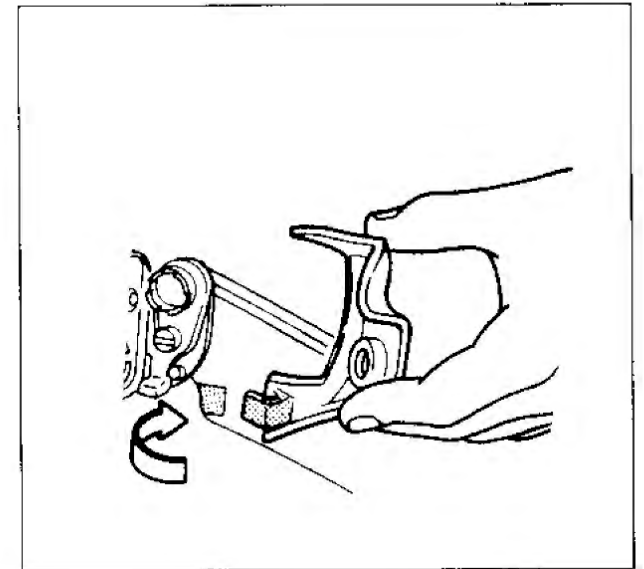
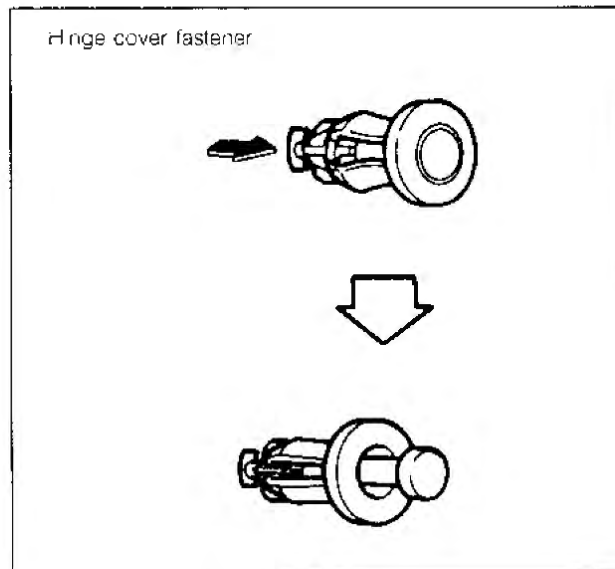
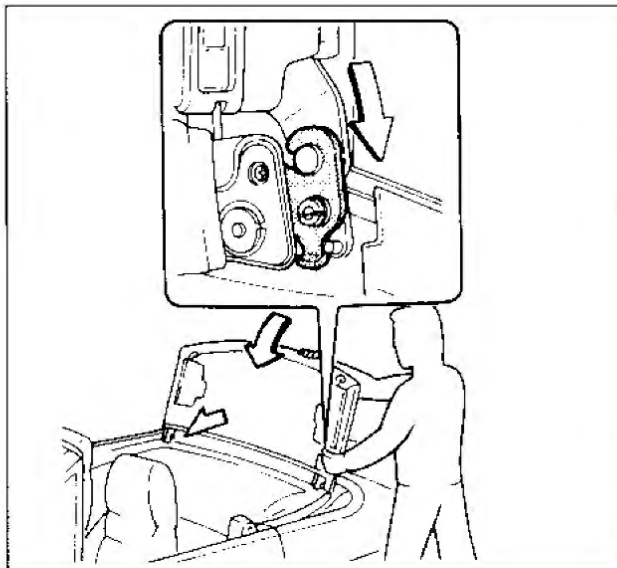
4) Slant the roof panel downward slightly and slide it into the hinges until you hear a click, then shake it a little to make sure it is firmly in place.

3. Install both hinge covers removed in step 2.  
1) With your finger push on the part of the hinge cover fastener shown in the illustration.

2) Cover both hinges with the hinge covers.

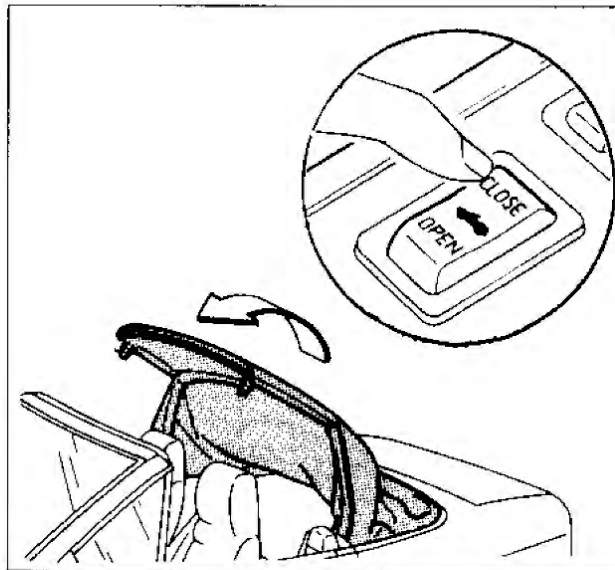
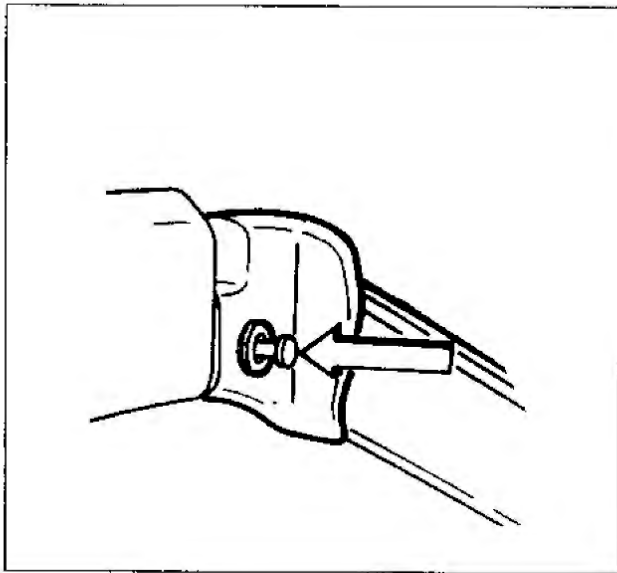
**NOTE**

It is best to use a helper when installing the roof panel.



3) Insert both hinge cover fasteners in the hinge cover holes, then push on the center part of the fasteners.

4. Raise the convertible top following steps 8 through 10 on page 3-69.

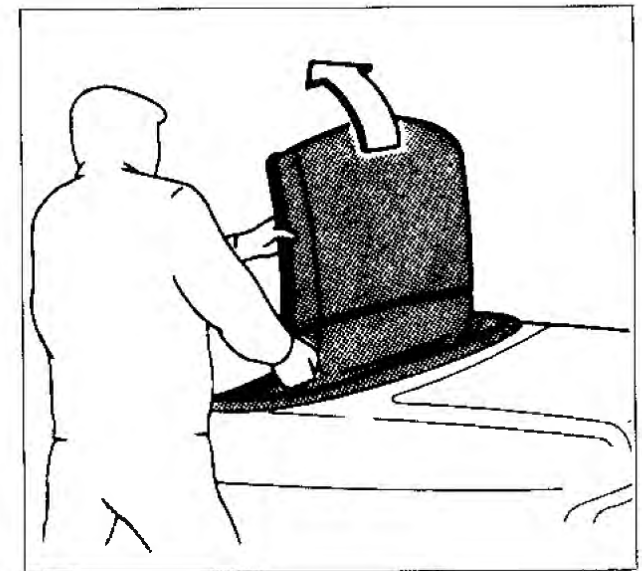
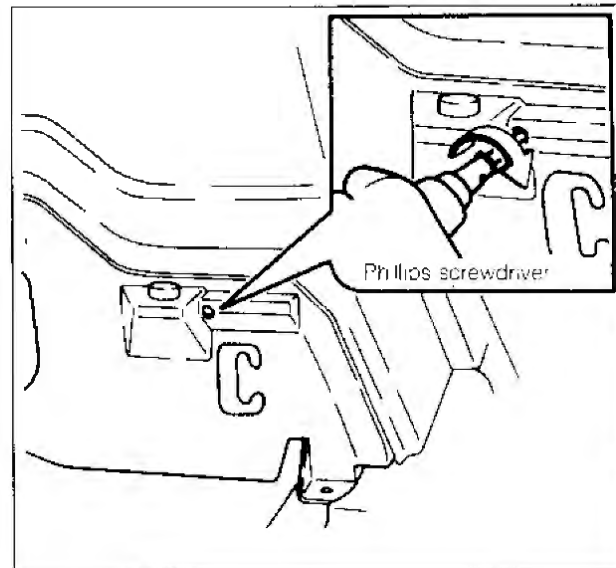
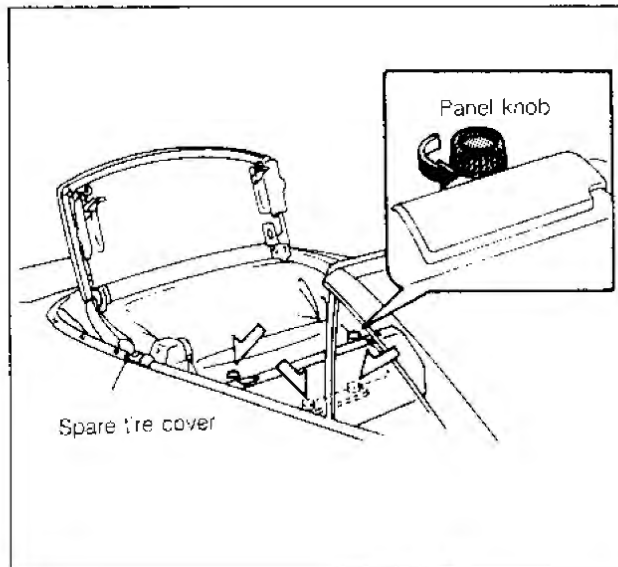


**IF THE TOP CANNOT BE RAISED USING THE SWITCH**

1. Slide both seats fully forward. Then turn the panel knobs and lift up the spare tire cover.

2. Insert a Phillips screwdriver into the left and right service holes, and turn it clockwise until it can no longer turn.

3. Raise the convertible top by hand.



4. Secure the convertible top using the top lock levers, then close the top lock lids.

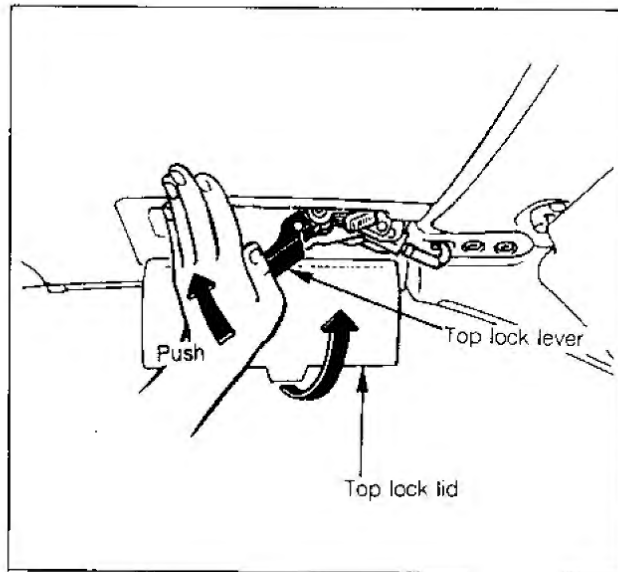
**NOTE**

From inside the vehicle, make sure the top is securely locked by the top lock levers by pushing up on the top.

5. After performing the above, have your vehicle inspected by an Authorized Mazda Dealer as soon as possible.

**CAUTION**

This procedure should be followed only in the event of a malfunction, when the top cannot be raised with the switch, and not at any other time.

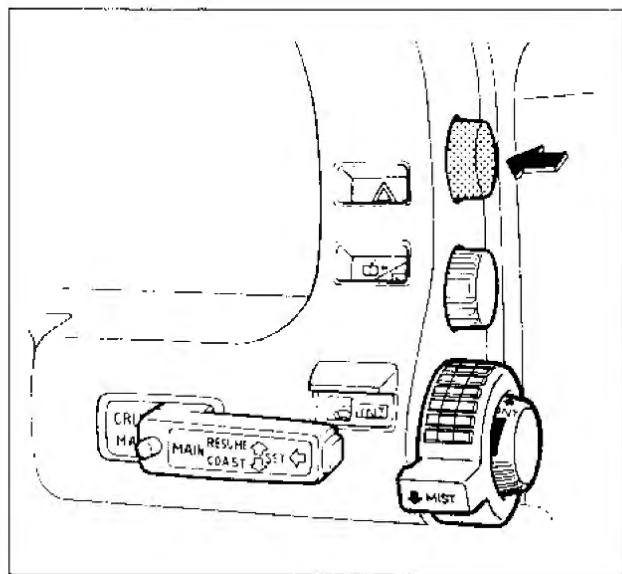


# 4. SPECIAL AND EMERGENCY OPERATING CONDITIONS

97U4 0010E

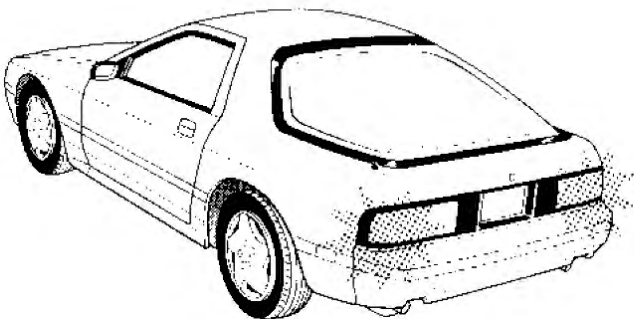
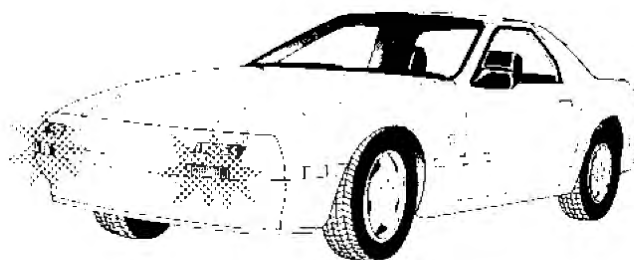
## HAZARD WARNING FLASHER

Use the hazard warning flasher to warn other drivers anytime your vehicle becomes a traffic hazard, whether day or night. It should be used whenever emergency repairs are being made or when your vehicle is stopped near the edge of a roadway. Depress the flasher switch, with the ignition switch on or off, and all turn signal lights will flash simultaneously.



## NOTE

Care must be taken when using the hazard warning flasher while the vehicle is being towed on a road or highway. Local regulations may prohibit using the hazard warning flasher in this manner.



97U4-0020E

## EMERGENCY STARTING

### JUMP-STARTING WITH AUXILIARY BATTERY

Jump-starting can be dangerous if done incorrectly. Therefore, to avoid harm to yourself or damage to your vehicle or battery, follow jump-starting procedures. If in doubt, we strongly recommend that you have a competent mechanic or a road service business do any jump-starting of your vehicle.

### CAUTION

Use only a 12-volt jumper system. You can damage a 12-volt starting motor, ignition system, and other electrical parts beyond repair by use of a 24-volt power supply (two 12-volt batteries in series or a 24-volt motor generator set).

### WARNING!

- Keep all flames away from the battery, and avoid creating any sparks near the battery. Gas that can be exploded by a flame or a spark is produced during normal battery operation.

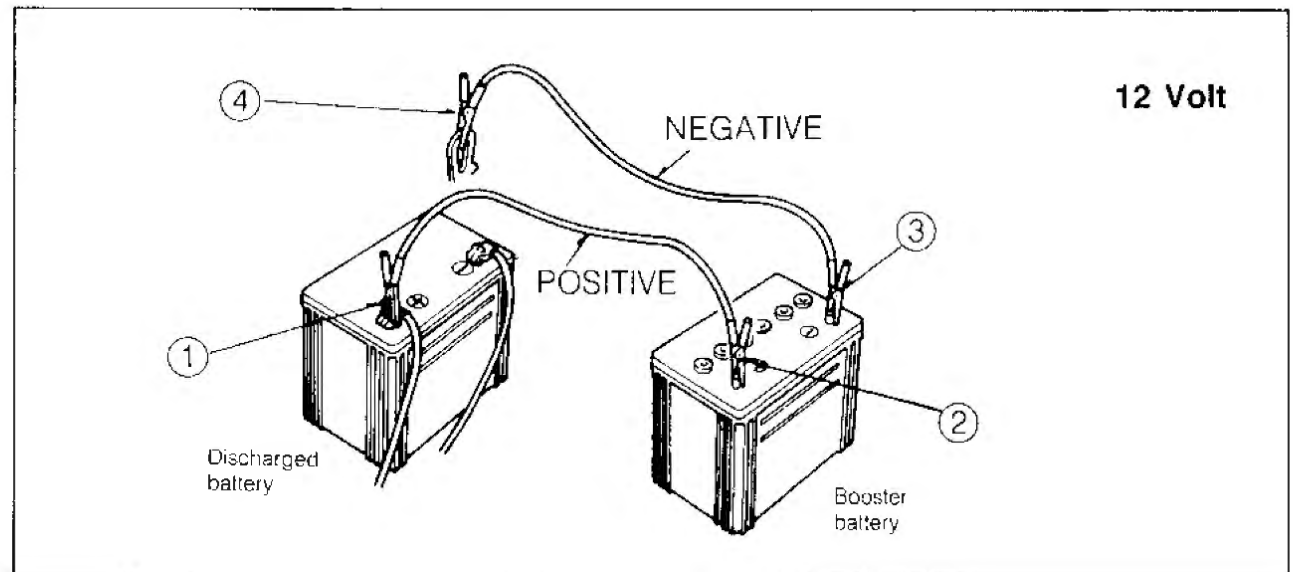
- Do not attempt a jump-start if the discharged battery is frozen; the battery may rupture or explode.

### JUMP-STARTING PROCEDURE

1. Make sure the booster battery is 12-volt and that its negative terminal is grounded.
2. If the booster battery is in another vehicle, do not allow the vehicles to touch.
3. Turn off all unnecessary electrical loads.
4. Connect the jumper cables in the exact sequence in the illustration. First connect one end of a jumper cable to the positive terminal of the discharged battery, then the other end to the positive terminal on the booster battery. Next connect one end of the other jumper cable to the negative terminal of the booster battery, then the other end to a solid, stationary, metallic point away from the battery. NOT

TO THE BATTERY NEGATIVE (–) TERMINAL, being careful that the clamps of one cable do not touch the clamps on the other cable or any metal on either vehicle. Do not lean over the battery when making connections.

5. Start the engine of the vehicle with the booster battery and let it run a few minutes. Then start the engine of the vehicle with the discharged battery.
6. Carefully disconnect the cables in the exact reverse order described in step 4.



97U4-0030E

## **PUSH STARTING**

Do not attempt to start a vehicle by pushing, as this may result in damage to the vehicle's emission control system.

### **CAUTION**

Never tow a vehicle to start it because the sudden surge forward when the engine starts could cause a collision with the tow vehicle.

97U4-0040E

## **TOWING**

Proper lifting or towing procedures are necessary to prevent damage to the vehicle during any towing operation. State and local laws applicable to vehicles in tow must be followed.

If towing is necessary, we recommend you have it done by your Mazda Dealer or a commercial tow truck service.

### **WITH MANUAL TRANSMISSION**

If the transmission, rear axle and steering system are not damaged, the vehicle may be towed on all four wheels. If these components are damaged, use a towing dolly.

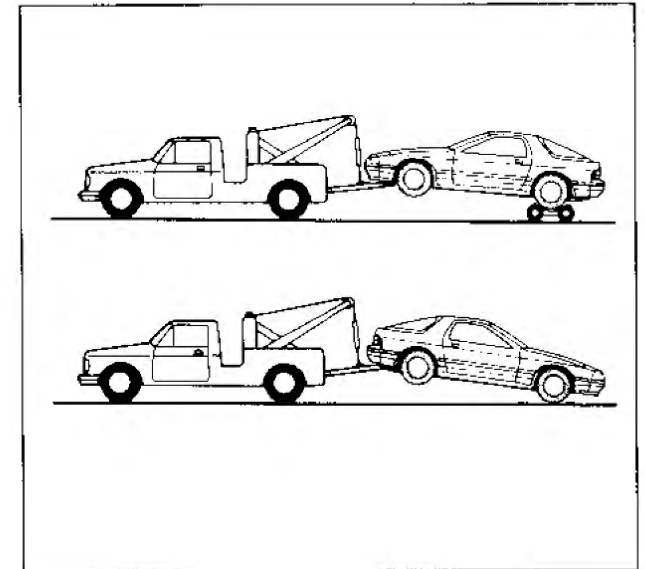
### **WITH AUTOMATIC TRANSMISSION**

If excessive damage or other conditions prevent towing the vehicle with the driving wheels off the ground, use wheel dollies. If all four wheels are on the ground, the vehicle may only be towed forward. In this case, do not exceed 30 mph (45 km/h) and/or a distance of 10 miles (15 km) or transmission damage could result.

If towing speed will exceed 30 mph (45 km/h), or if the towing distance will exceed 10 miles (15 km), use one of three methods:

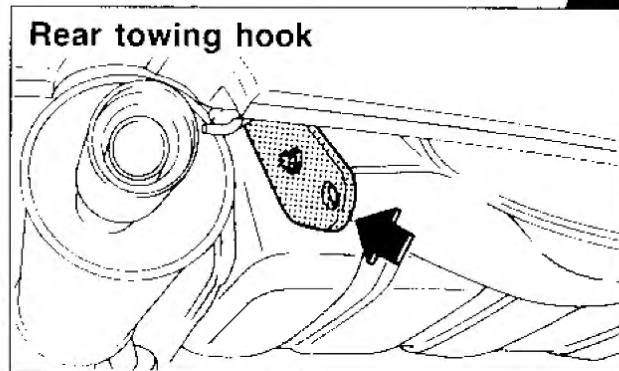
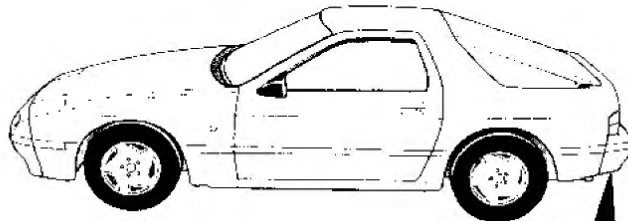
1. Place the rear wheels on a dolly.
2. Tow with the rear wheels off the ground.
3. Disconnect the propeller shaft.

If the transmission or rear axle are inoperative, tow with the rear wheels off the ground, or have the propeller shaft disconnected.



## CAUTION

- The following points are important when the vehicle is towed with all 4 wheels on the ground. The shift lever must be set at NEUTRAL, the ignition key in the ACC position, and the parking brake released. Remember that the power assist for the brakes and steering (if equipped) will not be available when the engine is inoperative.



- The towing hook should be used only in an emergency situation, (e.g., to pull the vehicle out of a ditch, a snow bank or mud).
- When the towing hook is used, always pull the cable or chain in a straight direction with respect to the hook. Do not apply force to the hook in a side direction. To prevent damage, do not take up slack in the cable or chain too quickly.
- Do not use the hook loops under the front and rear of vehicle for towing purposes. These hook loops are designed ONLY for transport tie-down. If tie-down hook loops are used for towing, front/rear skirt and bumper will be damaged.

67U14-0050E

## TOWING A TRAILER

We do not advise using this vehicle for trailer-towing purposes.

97U14-0055E

## OVERLOADING

### **WARNING!**

Never exceed either the gross axle weight ratings (GAWR front and rear) or the gross vehicle weight rating (GVWR). This is shown on the Motor Vehicle Safety Certification Label attached to the lower half of the left-hand door lock pillar face (Refer to specifications in section 8). Overloading can cause vehicle breakdown and damage and possible personal injury.

97U4-0060E

## HAZARDOUS DRIVING CONDITIONS

When hazardous driving is encountered because of water, snow, ice, mud, or sand, follow these suggestions.

- Drive cautiously and allow extra distance for braking.
- Avoid sudden movements in braking or steering.
- When braking, depress the brake pedal with a light up-and-down motion until the vehicle is stopped.
- If stuck in snow, mud, or sand, use second gear and accelerate slowly. Low gear may be used, if necessary. Move slowly to avoid spinning the rear wheels.
- Use sand, rock salt, tire chains, or carpeting under the rear wheels to provide traction when stuck in ice, snow, or mud.

### **WARNING!**

On slippery surfaces, do not downshift into FIRST or L (LOW-AUTOMATIC). This may cause skidding.

97U4 6070E

## ROCKING THE VEHICLE

If it is necessary to rock the vehicle to free it from snow, sand or mud, move the selector lever on automatic transmission models from D to R in a repeat pattern, while depressing the accelerator gently. (On manual transmission models, move the shift lever from first to reverse gear.) Do not race the engine. If you are still stuck after a minute or two of rocking, have the vehicle pulled out to avoid overheating and possible damage to the transmission.

### **CAUTION**

Prolonged rocking, may cause engine overheating, transmission damage or failure, or tire damage.

### **WARNING!**

Do not overspeed the engine and/or spin the wheels in excess of an indicated 35 mph (56 km/h). Spinning wheels at speeds above 35 mph (56 km/h) while the vehicle is stationary could disintegrate a tire with explosive force which could result in injury to a bystander or occupant.

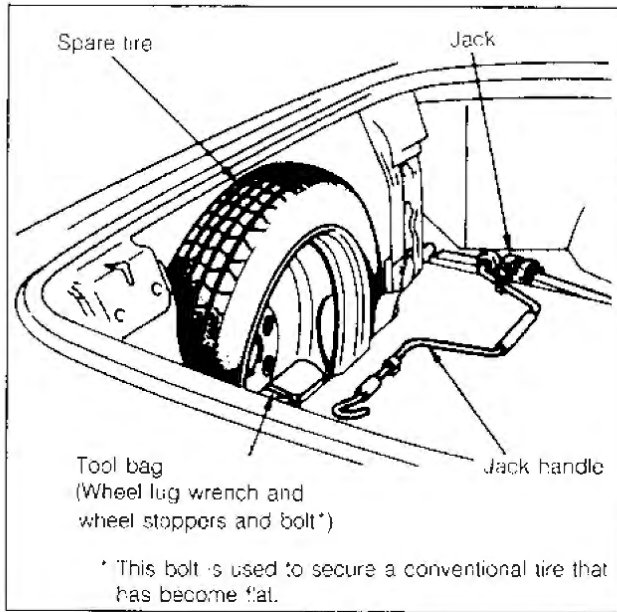
## SPARE TIRE, WHEEL LUG WRENCH AND WHEEL STOPPERS, JACK AND JACK HANDLE

### (Except convertible top models)

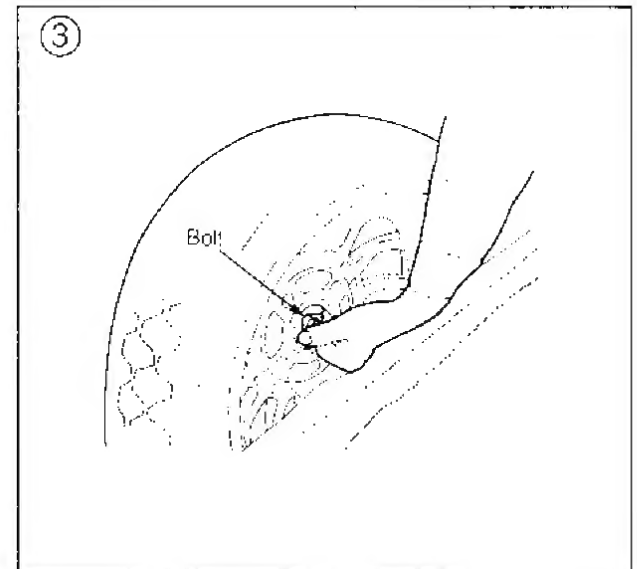
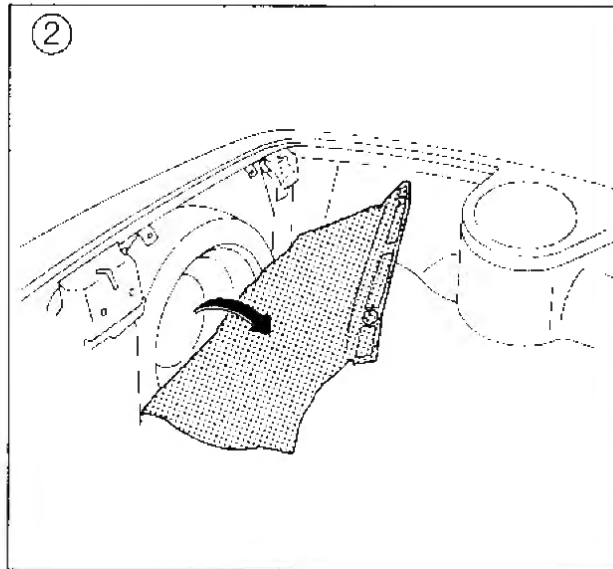
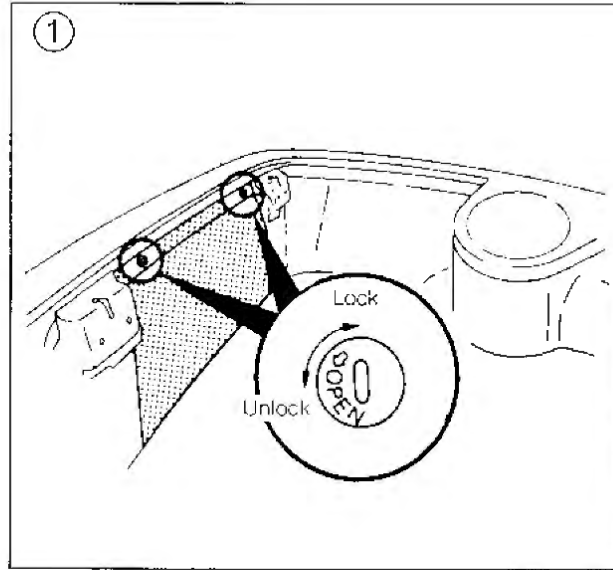
The spare tire, tool bag, jack and jack handle are stowed in the luggage room.

### NOTE

To prevent of the jack, jack handle or tool bag from rattling while the vehicle is moving, stow them properly.



### To remove spare tire



**(Convertible top models)**

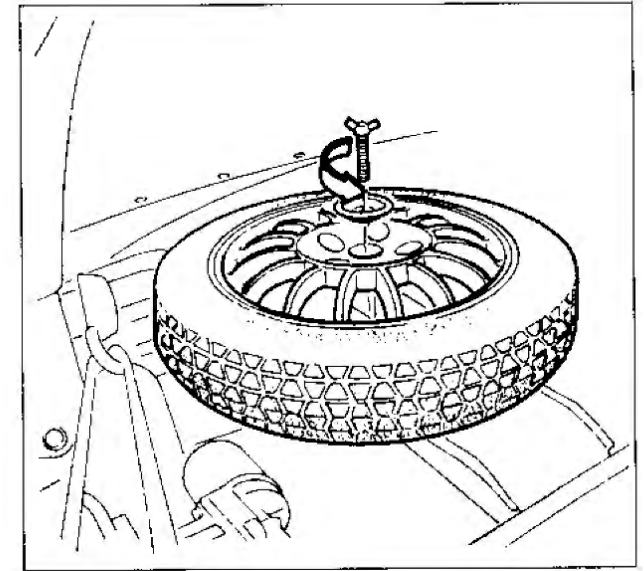
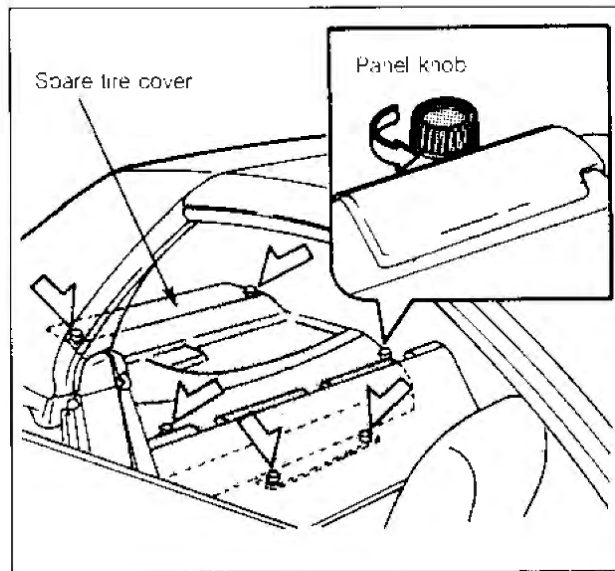
The spare tire is stored under the spare tire cover.

The tool bag, jack and jack handle are stored in the trunk.

**To remove spare tire**

1. Slide both seats fully forward. Then turn the panel knobs and remove the spare tire cover.

2. Turn the wing bolt counterclockwise by hand.



**To remove toolbag**

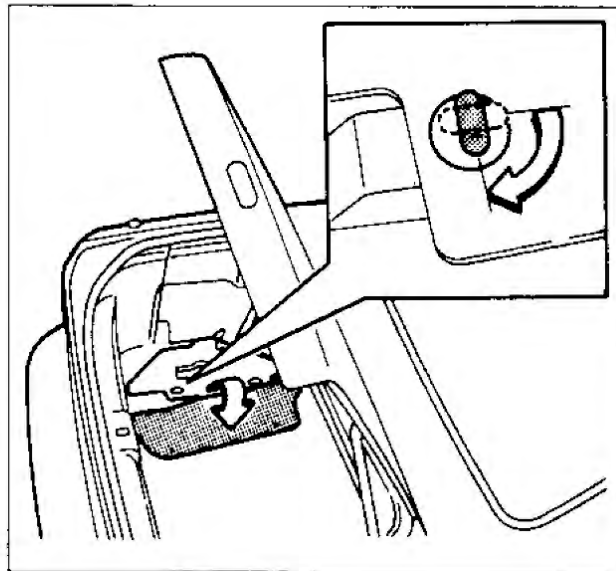
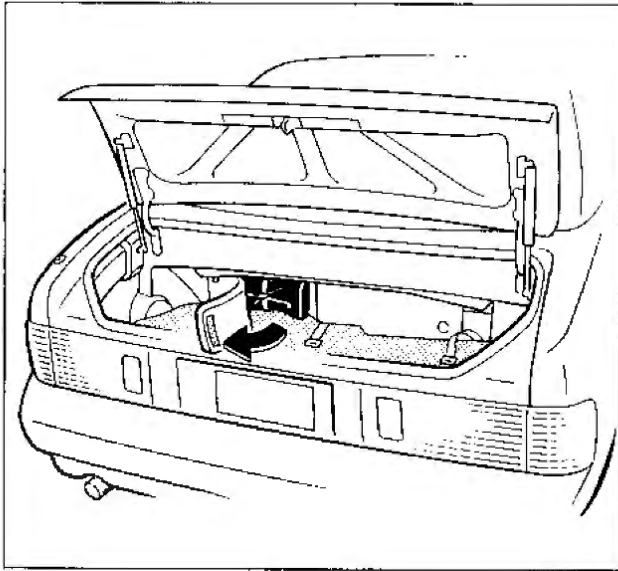
1. Pull back the cover.
2. Remove the toolbag.

**NOTE**

Store the toolbag in its original place after use.

**To remove jack and jack handle:**

1. Peel back carpet in left rear end of trunk room.
2. Turn plastic fasteners to unlock access panel over jack.
3. Remove access panel to expose jack.



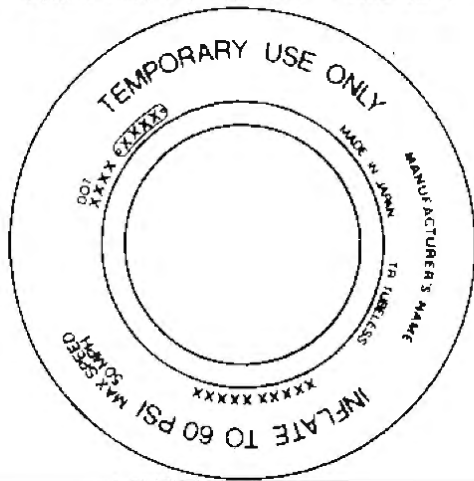
## SPARE TIRE

Check the spare tire at least once a month to ensure that it is stowed securely and properly inflated.

### Temporary spare tire (if equipped)

The temporary spare tire is easier to handle, due to its construction. It is lighter and smaller than a conventional tire, and is to be used only for emergency situations and for limited miles. Use the temporary spare tire only until the conventional tire is repaired. Check the temporary spare tire inflation pressure at least once a month and maintain at 60 psi (4.2 kg/cm<sup>2</sup>, 415 kPa).

**Do not go through an automatic car wash with this tire installed**



When using the temporary spare tire, the following precautions must be observed:

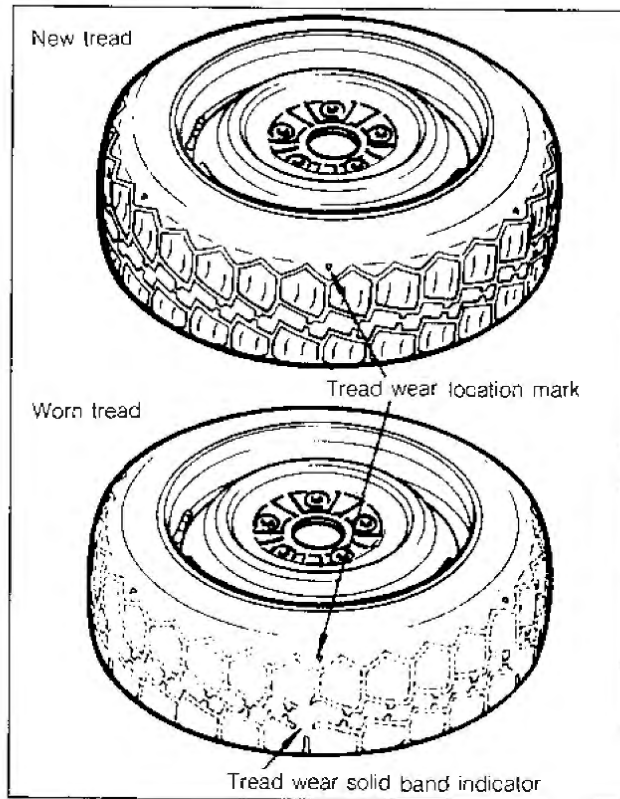
- Use for limited mileage, temporary emergency use only.  
This tire is identified by the distinctive wording TEMPORARY USE ONLY molded into the sidewall. Any continuous road use of this tire could result in tire failure, loss of vehicle control and possible personal injury.
- Do not exceed 50 mph (80 km/h) under any circumstances. It is recommended that your vehicle be driven at slow speeds to prevent damage to the tire.
- **(Except Viscous Limited Slip Differential models)**  
Because the spare tire's diameter is smaller than the conventional tire, the ground clearance is reduced by approximately 1 in (25mm). Avoid driving over obstacles.
- **(Viscous Limited Slip Differential models)**  
Please use the T135/70D16 type of spare tire with the vehicle. The spare tire's diameter is almost the same as the conventional tire.
- Do not take the vehicle through an automatic vehicle wash while the temporary spare tire is installed.
- Avoid road hazards, such as chuck holes etc.

- Because this tire has been designed especially for your vehicle, do not use it on any other vehicle.
- Do not use the temporary spare tire rim with a snow tire or conventional tire.
- Do not use wheel covers, wheel rings or center caps with the temporary spare tire wheel.
- Do not use tire chains with this tire. Because of the smaller tire size, a tire chain will not fit properly. This could cause damage to the vehicle and result in loss of the chain.
- The temporary spare tire has a tread life of up to 3,000 miles (4,800km), depending on road conditions and your driving habits.  
When the tread wear solid band indicator appears across the tread, replace it with the same type temporary spare tire. To conserve the tire's tread life, the temporary spare tire should be used only until the conventional tire can be repaired.
- Do not exceed the vehicle's maximum load rating or the load-carrying capacity molded into the side wall of the temporary spare tire.
- This tire should not be installed on the rear axle if the vehicle must be driven in snow or on ice.  
To avoid loss of vehicle control, under

such snowy and icy conditions, install the temporary spare tire on the front axle and utilize a conventional tire on the rear axle.

- Use only one temporary spare tire.

When inflating the temporary spare tire, use extreme caution as it will inflate much faster than the normal tire. Add compressed air in small quantities, and check the pressure frequently, until it reaches 60 psi (4.2 kg/cm<sup>2</sup>, 415 kPa).



97U4-0080E

## JACKING INSTRUCTIONS AND CHANGING A TIRE

### **WARNING!**

- Be sure to use the correct front and rear jacking points on the vehicle, never use the bumpers or any other part of the vehicle for jack support.
- Do not exceed the jack's maximum permissible load, which is 1,430 lbs (650 kg) for aluminum jack, and 2,200 lbs (1,000 kg) for steel jack.  
The jack is provided for emergency wheel and tire changing only.
- Never get beneath the vehicle while using the jack.
- Do not start or run the engine while the vehicle is on the jack.
- Never attempt vehicle repairs in the traffic lanes of a public road or highway. Always move the vehicle completely off the road and onto the shoulder before trying to change a tire. If you cannot find a firm, level place off the road, call a service truck.
- Follow jacking instructions to reduce the possibility of personal injury.

97U4-0110E

### **Preparation:**

- Park on a level surface and set the parking brake firmly.
- Latch the automatic transmission in P (Park) or shift the manual transmission into R (Reverse).

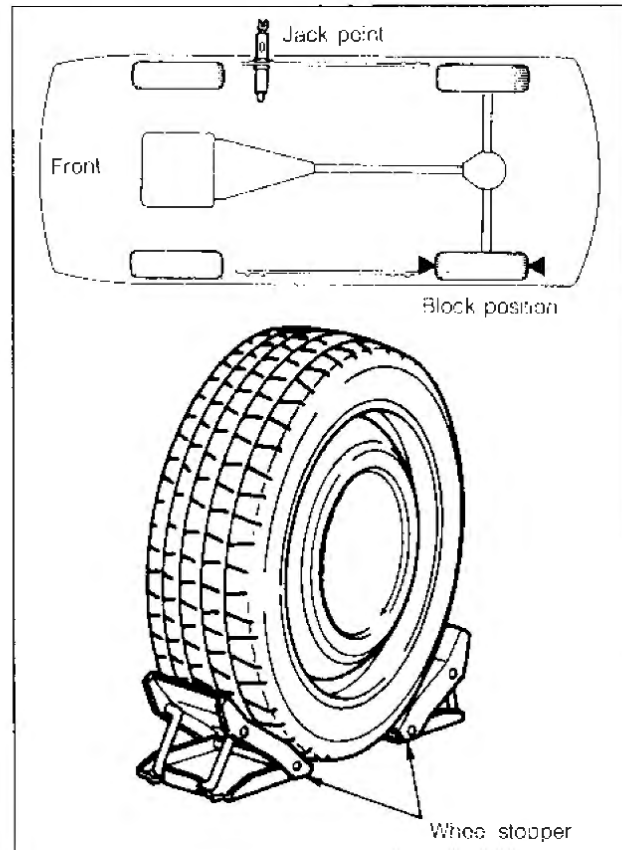
### **WARNING!**

When one rear wheel is lifted off the ground, neither the automatic transmission P (Park) position nor the manual transmission 1 (First) position will prevent the vehicle from moving and possibly slipping off the jack, even if those positions are properly engaged. To prevent inadvertent vehicle movement while changing a tire, always set the parking brake fully and always block the wheel diagonally opposite the wheel being changed.

- Activate the hazard warning flasher.

**Procedures:**

1. Remove the jack, jack handle and spare wheel from the vehicle.  
To remove the spare tire, remove the lock bolt. (See page 4-6 for detailed information.)
2. Place the wheel stoppers at the front and rear of the wheel that is diagonally opposite the jacking point to be used.

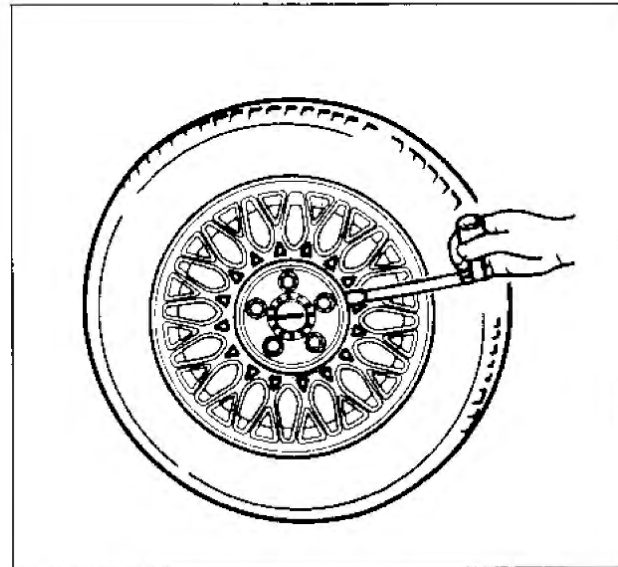


3. **(Except convertible top models)**

Remove the center cap (if equipped) by evenly moving the tip of a screwdriver or the flat end of a lug wrench completely around its edge.

**CAUTION**

Do not use any tools besides a screwdriver or a lug wrench to remove the center cap. If you use any tools other than the above mentioned ones, you can cause damage to the tire or center cap.



**(Convertible top models)**

Remove the center cap.

- Fit the center cap wrench onto the center cap.
- Turn the wrench counterclockwise by hand while pressing down on the center cap with the palm of your other hand.

**NOTE**

The center cap wrench should be kept in the glove box.

**CAUTION**

The center cap wrench is made out of plastic. When removing the center cap, you should press down on it with the palm of your hand to keep it from falling and getting damaged. The center cap may also be damaged if you turn the wrench with your foot. When removing the center cap, therefore, you should only turn the wrench by hand.

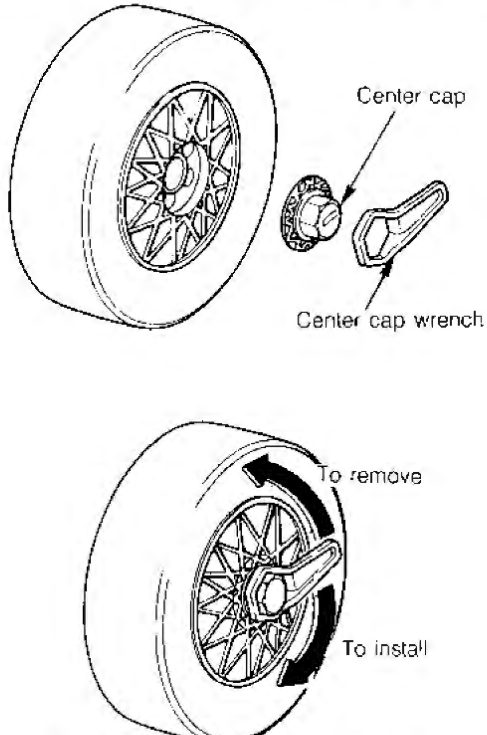
**NOTE**

**To install the center cap**

Slip the center cap into the wheel's center hole. While pressing down on the center cap with the palm of your hand, turn the wrench clockwise by hand until the center cap touches the stopper.

4. Loosen the lug nuts one turn each, but do not remove any nut until the tire has been raised off the ground.
5. Place the jack at the front or rear jacking position closest to the tire you are changing. Place the jack under the jacking point on the side sill, as in the illustration.

**Special wheel for convertible only**



The diagram illustrates the installation of a center cap on a special wheel for convertibles. It shows a wheel with a center hole, a center cap, and a center cap wrench. The wrench is used to turn the center cap clockwise while pressing down on it with the palm of the other hand. Arrows indicate the direction of rotation: 'To remove' (counter-clockwise) and 'To install' (clockwise).

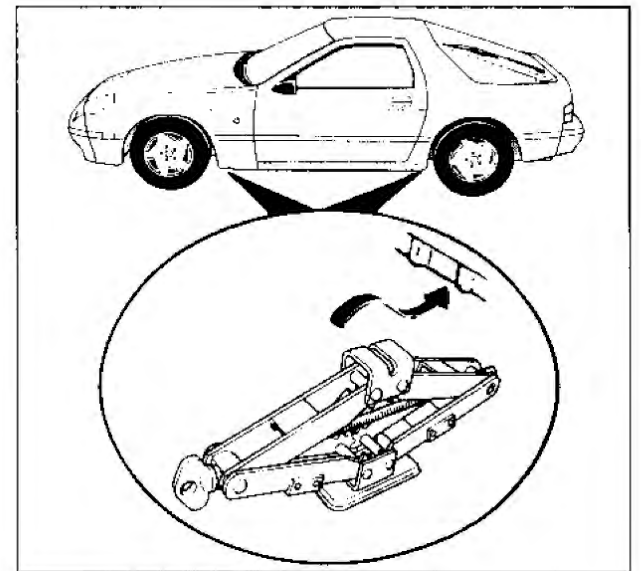
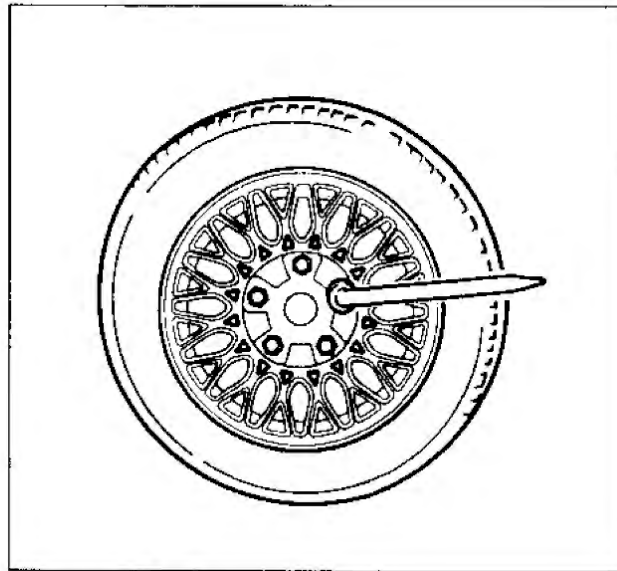
**Center cap**

**Center cap wrench**

**To remove**

**To install**

**Turn the wrench by hand while pressing down on the center cap with the palm of your other hand.**



6. Insert the jack handle into the jack and turn it clockwise until the tire just clears the ground, about 1.2 in (30mm). Before removing the lug nuts, make sure the vehicle is stable and there is no chance for it to slip or move.
7. Remove the lug nuts by turning them counterclockwise and then remove the wheel.
8. Remove the center cap (if equipped) from the wheel with the lug wrench.
9. Mount the spare tire in position and tighten the lug nuts.

10. Turn the jack handle and lower the vehicle to the ground. Tighten the lug nuts in order, as illustrated.

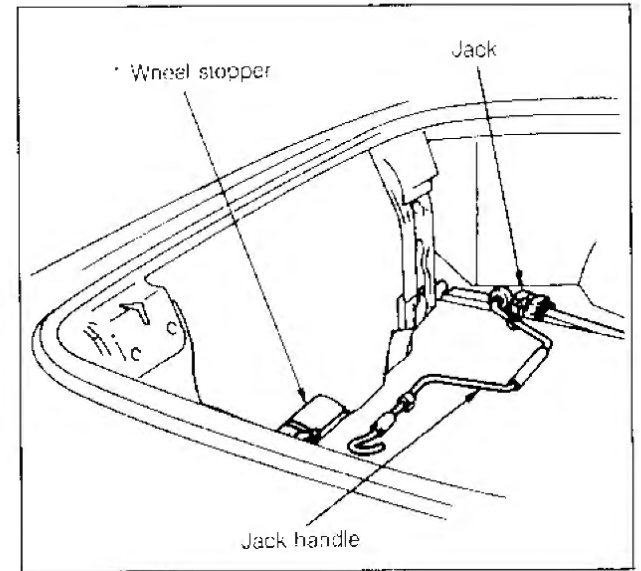
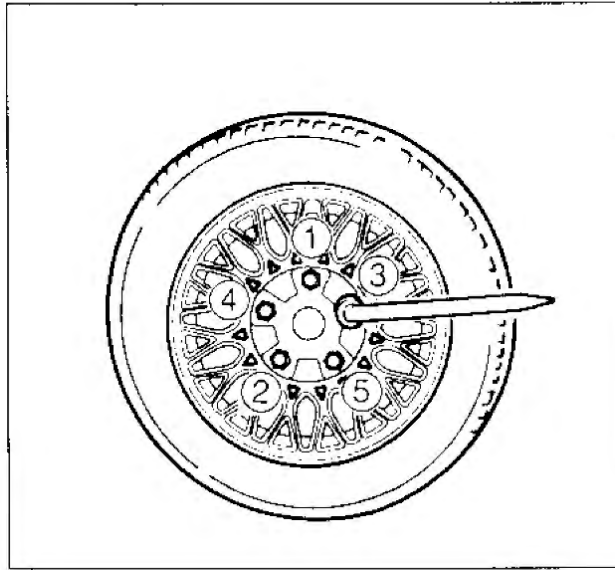
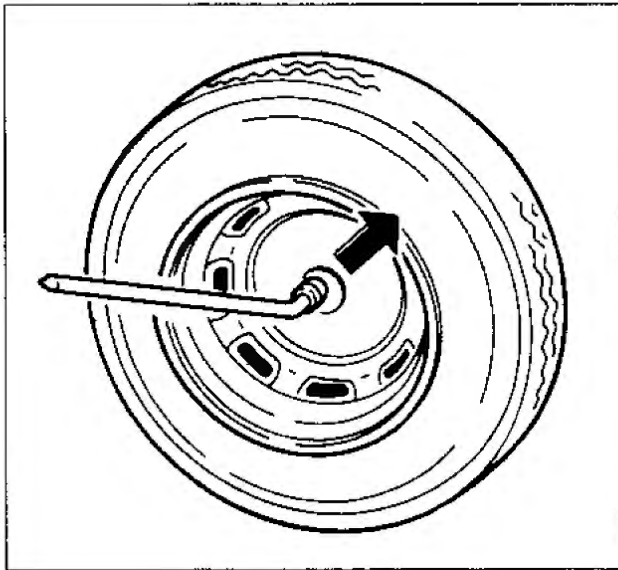
If you are unsure of the tightness of the lug nuts, have them checked at the nearest service station or an Authorized Mazda Dealer. The specified tightening torque is 65 to 87 ft-lb (9.0 to 12.0 m·kg, 90 N·m to 120 N·m).

11. Reinstall the center cap.

12. Store the jack and jack handle.

**NOTE**

To prevent of the jack and jack handle rattling while the vehicle is moving, stow them properly.



13. Store the removed tire as illustrated.  
**(Except convertible top models)**
1. Fold the luggage room mat forward.
  2. Mount the removed tire in the wheel space, face up, and insert the bolt provided in the tool envelope.
  3. Tighten the bolt with the wheel lug wrench.

**CAUTION**

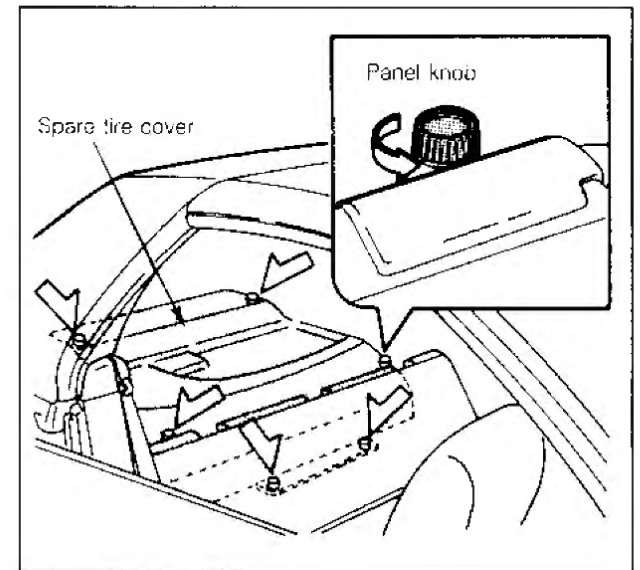
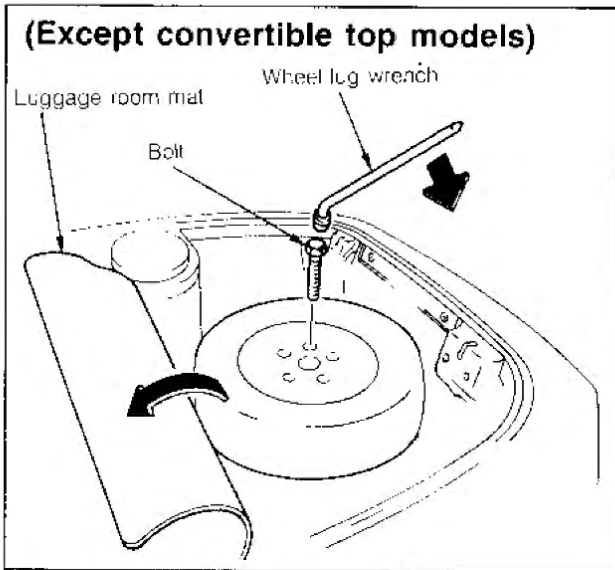
Your RX-7 is designed to carry a temporary compact, spare wheel and tire. This spare requires less storage space than a conventional wheel and tire. Therefore, a conventional wheel and tire cannot be stored in the same position as the temporary spare. Be sure to follow the special instructions listed here whenever it becomes necessary to store a conventional wheel and tire in your vehicle.

**NOTE**

If using the tire/wheel combination other than the original equipment and it cannot be secured in the above manner it is recommended that it be secured by the luggage straps (see page 2-30 for detailed information).

**(Convertible top models)**

1. Slide the seats fully forward and be sure the top is in raised position.
2. Loosen the panel knob and remove the spare tire cover.



3. When storing a conventional tire, use the special wing bolt found inside the toolbag to hold it in place.

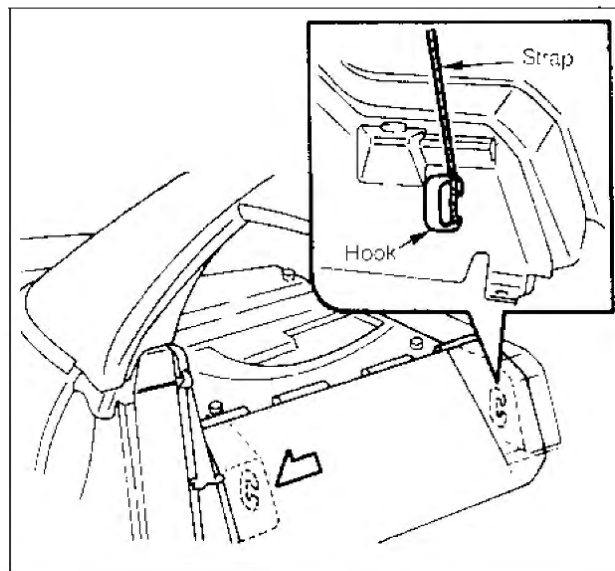
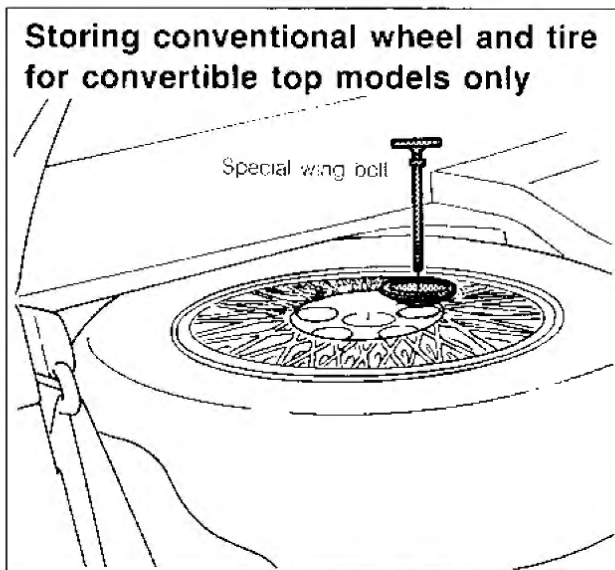
4. Close the spare tire cover over the tire and hold it in place with the straps.

#### CAUTION

- Do not fold the convertible top down when a conventional tire is stored, because the spare tire cover cannot be firmly secured.
- A flat conventional tire should be repaired as soon as possible, and the temporary spare tire should be put back in its original storage space.

#### WARNING!

- Your vehicle has metric threads on the wheel studs and nuts. Make certain, during wheel removal, the same nuts removed are reinstalled. It replaced, be sure nuts with metric threads and the same chamfer configuration are used. Installation of a non-metric thread nut on a metric stud will not properly secure the wheel to the hub and will damage the stud so that it must be replaced. You may note that most U.S. bolts are not metric, so use care if installing aftermarket wheels or nuts. If in doubt, see your Authorized Mazda Dealer. Damaged studs may result in wheel loss and possibly personal injury.
- To minimize the risk of personal injury during a sudden stop or collision, make sure the tire is installed and secured properly.
- 5-hole wheels and tires are directional and should not be swapped from one side of the vehicle to the other. (See page 4-13.)



## WHEELS AND TIRES

### USE OF DIRECTIONAL TIRES

The direction of tire rotation is decided according to the tread pattern, which affects the tire's performance in wet conditions. The directional tires must be installed according to the rolling direction marks. These marks are molded into the side wall of the tires as illustrated.

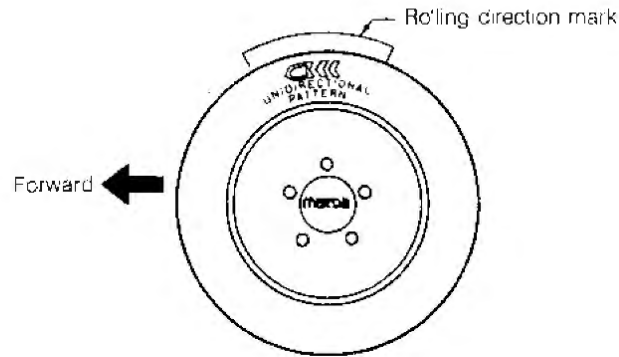
### CAUTION

Directional tires cannot be rotated from the right side of the vehicle to the left. If they are rotated from right to left, tire performance may be reduced in wet conditions. For correct tire rotation of directional tires, refer to TIRE ROTATION on page 4-17.

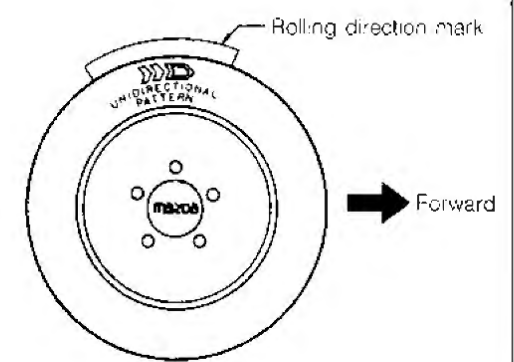
Example of rolling direction marks for directional tire

**Type A**

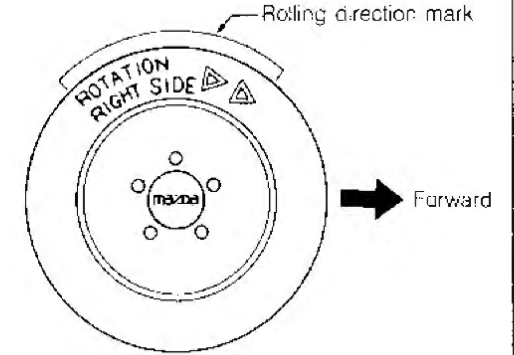
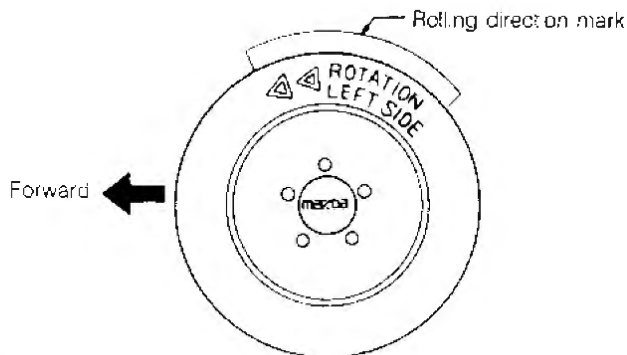
(for left side)



(for right side)



**Type B**



## USE OF SNOW TIRES

When snow tires are used, select the same size and construction as indicated in the tire pressure chart label. It is strongly recommended that snow tires be used on all four wheels, or poor handling may result. Snow tires should not be operated at speeds over 75 mph (120 km/h). These tires should be inflated 4 psi (0.3 kg/cm<sup>2</sup>, 28 kPa) above the recommended pressures shown on the tire pressure chart, but never exceed the maximum cold tire pressure shown on the tire sidewall.

## CAUTION

Do not install studded tires without first checking local regulations for possible restrictions.

## TIRE CARE

Careful inspection is recommended at every oil change and before long trips. Check for cuts, bruises, sharp objects imbedded in the tread and proper inflation pressures.

## TIRE ROTATION

To equalize tread wear, it is recommended that the tires be rotated every 3,750 miles (6,000 km) (or sooner if irregular wear develops), as indicated in the diagram below and, at the same time, checked for correct balance.

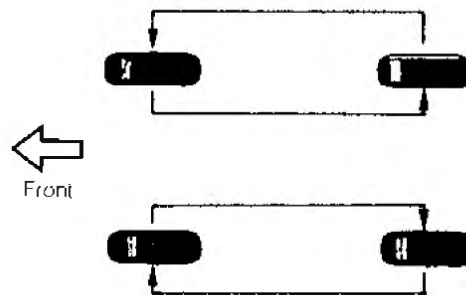
Upon rotation, the inflation pressures must be adjusted in accordance with the recommendations on the cold tire inflation pressure chart.

## NOTE

It is recommended that disc brake pads be inspected for wear whenever tires are rotated.

### (Except 205/60R15 89H tire)

This tire rotation is recommended for radial tires with an asymmetric tread pattern, spikes and directional tires.



\* Do not include TEMPORARY USE ONLY spare tire in rotation.

## CAUTION

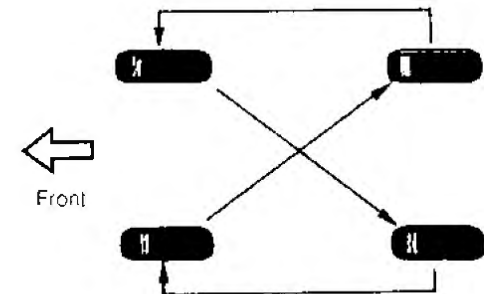
- Do not rotate the tires according to the pattern shown in figure if the front and rear tires are of different sizes.
- Do not rotate radial tires with an asymmetric tread pattern or spikes from left to right, only from front to back.
- Do not rotate directional tires, right to left, but only front to rear.
- **(Viscous Limited Slip Differential models)**

Do not use the following

- Tires of other than the designated size.
- Tires of different size or type at the same time.
- Tires that have a noticeably different

### (For 205/60R15 89H tire)

This tire rotation is recommended for bias tires and radial tires with a symmetric tread pattern.



\* Do not include TEMPORARY USE ONLY spare tire in rotation.

pattern or depth of wear at the same time.

- Tires not sufficiently inflated.

If such tires are used, a difference in the rotation of the left and the right wheels will occur, thus applying a load on the limited-slip differential at all times and causing a malfunction.

97L4-0140E

### **TIRE USAGE**

When replacing tires, only the same size and construction type originally installed on your vehicle are recommended by Mazda. Use of any other tire size or type may seriously affect ride, handling, ground clearance, tire clearance and speedometer calibration.

This warning does not apply to a temporary spare tire furnished with your vehicle.

### **CAUTION**

- Bias and bias belted tires should not be used together on the same vehicle.
- Radial tires should not be used together with other type tires on the same vehicle.
- New tires should be installed in pairs on the same axle (left and right).

77U4-0150E

### **TIRE WEAR**

Built-in tread wear indicator bars appear on each tire when the tread depth reaches 0.06 in (1.6mm).

These bars appear as a solid band across the tread. A tire should be replaced when the bars appear.

97U4-0160E

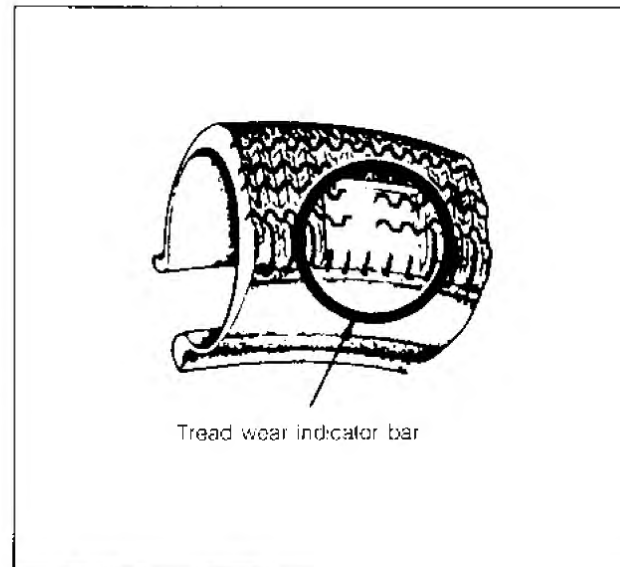
### **REPLACEMENT WHEELS**

When replacing wheels for any reason, care should be taken to insure that the wheels are equivalent to original factory units, in diameter, rim width and offset.

When a tire or wheel is replaced, the wheel should always be balanced.

### **CAUTION**

A wrong size wheel may adversely affect wheel and bearing life, braking and stopping ability, handling characteristics, ground clearance, body-to-tire clearance, snow chain clearance, speedometer calibration, headlight aim and bumper height.



## USE OF ALUMINUM WHEEL

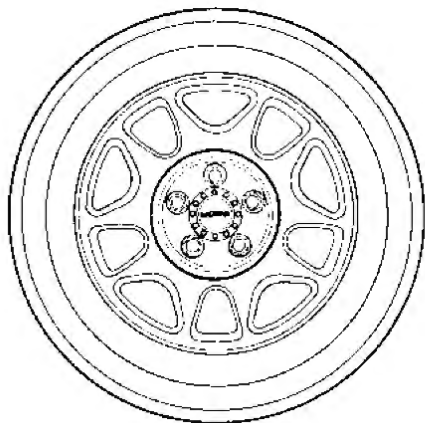
### (if equipped)

The original equipment 15" and 16" aluminum wheels are directional and must be used in the correct positions (right and left). When replacing the tires make sure that the wheels are mounted to the original right or left position.

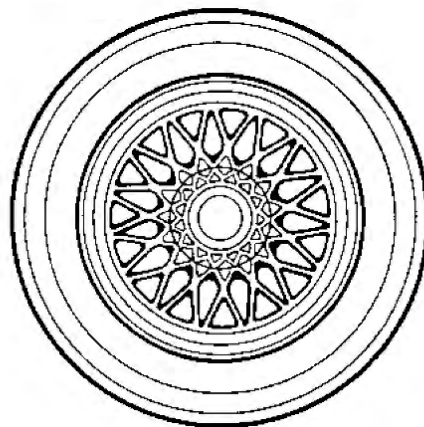
### NOTE

RH (Right hand) or LH (Left hand) are stamped on the wheel.

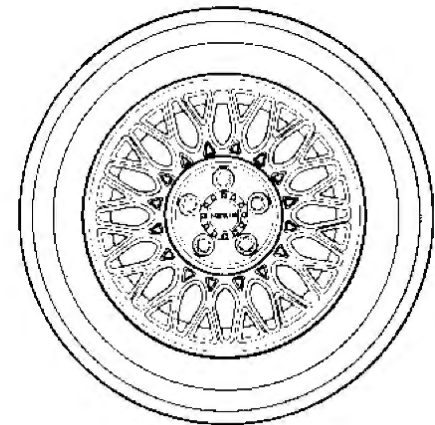
15-INCH WHEEL



(Convertible top models)



16-INCH WHEEL



# 5. APPEARANCE CARE—REQUIRED OWNER'S MAINTENANCE

97U5-0010E

## NOTE

It is very important to remember, when using any chemical cleaner or polish, to always follow label directions. Read all warning and caution statements which appear on the label.

## FINISH MAINTENANCE

1. To help protect the finish from rusting and deterioration, wash it thoroughly and frequently with lukewarm or cold water (at least once a month), paying particular attention to the removal of any accumulation of salt, dirt, mud, etc., from the underside of the fenders. Make sure the drain holes in the lower edges of the doors and rocker panels are kept clear.
2. Insects, tar, tree sap, bird droppings, chemicals from industrial plants, or other similar deposits can damage your Mazda finish if left on. Prompt washing may not completely remove all these deposits. A mild vehicle wash soap, safe for use on painted surfaces can be used.

Do not use strong soap, chemical detergents or hot water and do not wash the vehicle in direct sunlight or when the metal is warm.

3. After soaping, rinse the vehicle thoroughly with lukewarm or cold water. Do not allow the soap to dry on the finish. In addition, the painted and bright metal exterior surfaces of your vehicle should be coated with a good quality paste wax.

## BRIGHT METAL PARTS MAINTENANCE

1. Use tar remover, rather than knives or other sharp objects, to remove road tar and insects.
2. To protect these surfaces from corrosion, apply a coating of wax or chrome preservative and rub to a high polish.
3. During winter weather or in coastal areas, cover the chromed parts with a somewhat heavier coating of the wax or preservative. If necessary, coat the parts with non-corrosive petroleum jelly or another protective compound.

## UNDERBODY MAINTENANCE

**Underbody Washing:** Your vehicle may be exposed to chemicals used for road de-icing, dust control, etc. These may collect on the underbody of your vehicle. If not removed, they can accelerate rusting and deterioration. Flush the underbody of your vehicle with lukewarm or cold water at the end of each winter, or once a month when possible.

## **FINISH DAMAGE MAINTENANCE**

Deep scratches or stone chips in the painted surface must be repaired promptly, as exposed metal will quickly corrode and can cause a condition which may require major repair.

### **CAUTION:**

- If your vehicle is damaged and requires sheet metal repair or replacement, be sure the body shop applies anti-corrosion materials to the parts repaired or replaced.
- After washing the vehicle, test the brakes to see if they have been affected by water.
- Wiping dust or dirt off with a dry cloth will scratch the finish.
- Do not use steelwool, abrasive cleaners, or strong detergents containing highly alkaline or caustic agents on chrome plated or anodized aluminum parts. This may result in damage to the protective coating and cause discoloration or paint deterioration.

## **CARE OF ALUMINUM WHEELS**

Your aluminum wheels are coated with a clear protective finish.

### **NOTE:**

- Do not use any abrasive cleaners, polishing compounds, solvents, or wire brushes. These may scratch or damage the finish.
- Use only a mild soap or neutral detergent and rinse thoroughly with water. Also, during winter, be sure to clean aluminum wheels after driving on salted roads. This helps prevent corrosion.
- Avoid washing the wheels with high-speed car wash brushes.

## **GENERAL CAUTION**

Prevent caustic solutions such as perfume, cosmetic oil, etc. from coming in contact with the dashboard or painted surfaces because these may cause damage or discoloration. If a solution of this type does come in contact, wipe it off immediately.

## **CLEANING UPHOLSTERY AND INTERIOR TRIM**

### **VINYL**

Remove dust and loose dirt with a whisk broom or vacuum cleaner. Clean the vinyl surfaces with a leather and vinyl cleaner.

### **LEATHER**

Genuine leather is not uniform. It may have healed scars, scratches, and wrinkles. Clean the surface with a leather and vinyl cleaner or with a mild soap solution. Wipe clean with a damp soft cloth. Dry and buff surfaces with a dry, soft cloth.

### **FABRIC**

Remove dust and loose dirt with a whisk broom or a vacuum cleaner. Clean with a mild soap solution recommended for upholstery or carpets. Remove fresh spots immediately with a fabric spot cleaner.

This fabric can be stained. Its color can be affected. Its fire-resistance properties can be reduced.

### **CAUTION**

Using other than recommended cleaners or procedures may affect flammability or fabric appearance.

## CARE AND MAINTENANCE OF THE CONVERTIBLE TOP

A special, high quality material is used for the convertible top, but when care of the top is improper or insufficient, hardening, staining and loss of luster may result. The top must be maintained according to the prescribed car and maintenance guidelines.

### Washing the convertible top

Do not wait until the top gets very dirty before cleaning it. Dirt that remains too long on the top can cause deterioration.

1. Gently clean the top with a mild soap, plenty of water and a soft brush.
2. Thoroughly rinse the top with clean water to remove all soap.
3. Wipe the top dry before the water dries on it.
4. Allow to dry completely before lowering the top.

### CAUTION

- Automatic or high pressure car washes are harmful to the convertible top. Avoid using these to wash the vehicle.
- Do not direct water from the hose directly to the area where the window glass and the convertible top meet. Water will most likely get into the passenger compartment of the vehicle.

### Appearance care

The convertible top may be dressed about once a month after it has been washed and dried well. For best results, use a water-based leather treatment or vinyl top dressing. Several brands of spray-on treatments for vinyl are widely available.

### CAUTION

- Some brands of leather treatment on the market can ruin the gloss on the top. You should be careful, therefore, to choose a treatment that is appropriate.
- Be careful not to let any regular car wax get on the convertible top. If for any reason car wax should get on the top, remove it with leather cleaners.
- Too much treatment on your top can be as damaging as too little. Follow direction for the brand of treatment and don't overdo it!
- Avoid lowering top immediately after using treatment/dressing on top fabric. Instead, allow to dry fully before lowering.

## 6. MAINTENANCE

77U6-C010E

You should exercise the utmost care to prevent damage to your vehicle or yourself whenever using this manual for maintenance or inspection.

Should you have any doubts concerning inspections or servicing of your vehicle, we strongly recommend that you have a reliable and qualified service shop perform this work, preferably an Authorized Mazda Dealer. Inadequate, incomplete, or insufficient servicing may result in operational problems with your vehicle or even lead to vehicle damage, accident, and personal injury to yourself.

97U6-0020E

## OWNER'S RESPONSIBILITY

**Maintenance Services and Record Retention are the owner's responsibility.**

You should retain evidence that proper maintenance has been performed on your vehicle in accordance with Scheduled Maintenance Services chart starting on the following page.

Detailed warranty information is provided with your Mazda vehicle. Claims made during the warranty term will not qualify under any warranty if they result from lack of maintenance rather than from defective material or workmanship. We recommend that all maintenance be performed by an Authorized Mazda Dealer using genuine Mazda parts. **However, such maintenance may be performed by any automotive repair establishment using automotive parts equivalent to those with which your vehicle or engine was originally equipped.**

## **SCHEDULED MAINTENANCE SERVICES**

Follow Schedule 1 (Normal Driving Condition) if you mainly operate your vehicle where none of the following conditions apply. Follow Schedule 2 (Unique Driving Condition) if one or more of the items below apply:

- **REPEATED SHORT DISTANCE DRIVING.**
- **DRIVING IN DUSTY CONDITION.**
- **DRIVING WITH EXTENDED USE OF BRAKES.**
- **DRIVING IN AREAS USING ROAD SALT OR OTHER CORROSIVE MATERIALS.**
- **DRIVING ON ROUGH AND/OR MUDDY ROADS.**
- **EXTENDED PERIODS OF IDLING AND/OR LOW SPEED OPERATION.**
- **DRIVING FOR A PROLONGED PERIOD IN COLD TEMPERATURE AND/OR EXTREMELY HUMID CLIMATES.**

**Schedule 1 (Normal Driving Condition)**

MAINTENANCE OPERATION	MAINTENANCE INTERVALS	Number of months or miles (kilometer), whichever comes first								
		Months	7.5	15	22.5	30	37.5	45	52.5	60
		Miles	7,500	15,000	22,500	30,000	37,500	45,000	52,500	60,000
		(Km)	(12,000)	(24,000)	(36,000)	(48,000)	(60,000)	(72,000)	(84,000)	(96,000)

**Engine**

Drive belts (except air pump drive belt)					I				I
Engine oil	Non-Turbo	R	R	R	R	R	R	R	R
	Turbo	Replace every 5,000 miles (8,000 km) or 5 months							
Oil filter	Non-Turbo		R		R		R		R
	Turbo	Replace every 5,000 miles (8,000 km) or 5 months							

**Air Cleaner**

Air cleaner element					R				R
---------------------	--	--	--	--	---	--	--	--	---

**Ignition System**

Spark plugs		I*1			R		I*1		R
-------------	--	-----	--	--	---	--	-----	--	---

**Cooling System**

Cooling system		I			I		I		I
Engine coolant					R				R

**Fuel System**

Idle speed		I*2			I*2		I*2		I
Fuel filter									R
Fuel lines					I*1				I

\* See footnotes on page 6-7 for explanation of the asterisk followed by a number (e.g. \*1) and the letter codes used in this chart.

**Schedule 1 (Normal Driving Condition) (Cont'd)**

MAINTENANCE OPERATION	MAINTENANCE INTERVALS	Number of months or miles (kilometer), whichever comes first								
		Months	7.5	15	22.5	30	37.5	45	52.5	60
		Miles	7,500	15,000	22,500	30,000	37,500	45,000	52,500	60,000
		(Km)	(12,000)	(24,000)	(36,000)	(48,000)	(60,000)	(72,000)	(84,000)	(96,000)

**Electrical System**

Engine oil level warning system		I			I			I	
Engine coolant level warning system					I				I

**Chassis and Body**

Brake lines, hoses and connections					I				I
Disc brakes					I				I
Steering operations and linkage					I				I
Front suspension ball joints					I				I
Bolts and nuts on chassis and body					T				T
Exhaust system heat shield					I				I
Drive shaft dust boots					I				I
Front wheel bearing grease					L				L
Manual transmission oil									R
Rear axle oil									R
Toe control hub and control link					I				I

**Air Conditioner System (if equipped)**

Refrigerant	Inspect refrigerant amount annually
Compressor	Inspect operation annually

**Schedule 2 (Unique Driving Condition)**

MAINTENANCE OPERATION	MAINTENANCE INTERVALS	Number of months or miles (kilometer), whichever comes first												
		Months	5	10	15	20	25	30	35	40	45	50	55	60
		x1000 Miles	5	10	15	20	25	30	35	40	45	50	55	60
		(x1000 Km)	(8)	(16)	(24)	(32)	(40)	(48)	(56)	(64)	(72)	(80)	(88)	(96)

**Engine**

Drive belts (except air pump drive belt)							I						I
Engine oil	Non-Turbo	R	R	R	R	R	R	R	R	R	R	R	R
	Turbo	Replace every 3,000 miles (5,000 km) or 3 months											
Oil filter	Non-Turbo	R	R	R	R	R	R	R	R	R	R	R	R
	Turbo	Replace every 3,000 miles (5,000 km) or 3 months											

**Air Cleaner**

Air cleaner element							R						R
---------------------	--	--	--	--	--	--	---	--	--	--	--	--	---

**Ignition System**

Spark plugs			I*1				R			I*1			R
-------------	--	--	-----	--	--	--	---	--	--	-----	--	--	---

**Cooling System**

Cooling system			I				I			I			I
Engine coolant							R						R

**Fuel System**

Idle speed			I*2				I*2			I*2			I
Fuel filter													R
Fuel lines							I*1						I

See footnote on page 6-7 for explanation of the asterisk followed by a number (e.g. \*1) and the letter codes used in this chart.

**Schedule 2 (Unique Driving Condition) (Cont'd)**

MAINTENANCE OPERATION	MAINTENANCE INTERVALS	Number of months or miles (kilometer), whichever comes first												
		Months	5	10	15	20	25	30	35	40	45	50	55	60
		x1000 Miles	5	10	15	20	25	30	35	40	45	50	55	60
		(x1000 Km)	(8)	(16)	(24)	(32)	(40)	(48)	(56)	(64)	(72)	(80)	(88)	(96)

**Electrical System**

Engine oil level warning system			I				I			I			I
Engine coolant level warning system							I						I

**Chassis and Body**

Brake lines, hoses and connections							I						I
Disc brakes			I				I			I			I
Steering operations and linkage							I						I
Front suspension ball joints							I						I
Bolts and nuts on chassis and body			T				T			T			T
Exhaust system heat shield							I						I
Drive shaft dust boots							I						I
Front wheel bearing grease							L						L
Manual transmission oil							R						R
Rear axle oil							R						R
Toe control hub and control link							I						I

**Air Conditioner System (if equipped)**

Refrigerant	Inspect refrigerant amount annually
Compressor	Inspect operation annually

**Key to charts on pages 6-3 through 6-6.**

**Note:**

**I:** Inspect, and if necessary correct, clean or replace.

**R:** Replace or change

**T:** Tighten

**L:** Lubricate

After 60 months or 60,000 miles (96,000 km), continue to follow the described maintenance items and intervals periodically.

As for \* marked items in this maintenance chart, please pay attention to the following points.

- \*1 This maintenance operation is recommended by Mazda. However, this maintenance is not necessary for emission warranty coverage or manufacturer recall liability.
- \*2 This maintenance operation is required for all states except California. However we do recommend that this operation be performed on California vehicles as well.

# OWNER MAINTENANCE SERVICES

The vehicle checks and inspections that are listed below should be performed by the owner or a qualified service technician at the intervals indicated to ensure safe, dependable operation of your vehicle.

Any adverse conditions or problems noted should be brought to the attention of your Authorized Mazda Dealer or qualified service technician for service advice as soon as possible.

## AT THE TIME OF REFUELING

- **ENGINE OIL LEVEL** (See page 6-11.)
- **WINDSHIELD WASHER FLUID LEVEL** (See page 6-12.)
- **HEADLIGHT WASHER FLUID LEVEL** (See page 6-12.)
- **REAR WINDOW WASHER FLUID LEVEL** (See page 6-13.)
- **ENGINE COOLANT LEVEL** (See page 6-13.)
- **BRAKE AND CLUTCH FLUID LEVEL** (See page 6-14.)

## AT LEAST MONTHLY

- **BELT TENSION** (See page 6-15.)
- **TIRE INFLATION PRESSURE** (See page 6-17.)

## AT LEAST TWICE A YEAR

(For example, every spring and fall)

- **AUTOMATIC TRANSMISSION FLUID** (See page 6-19.)
- **POWER STEERING FLUID (if equipped)** (See page 6-21.)

## AT LEAST ONCE A YEAR

- **POWER BRAKE UNIT AND HOSES** (See page 6-22.)

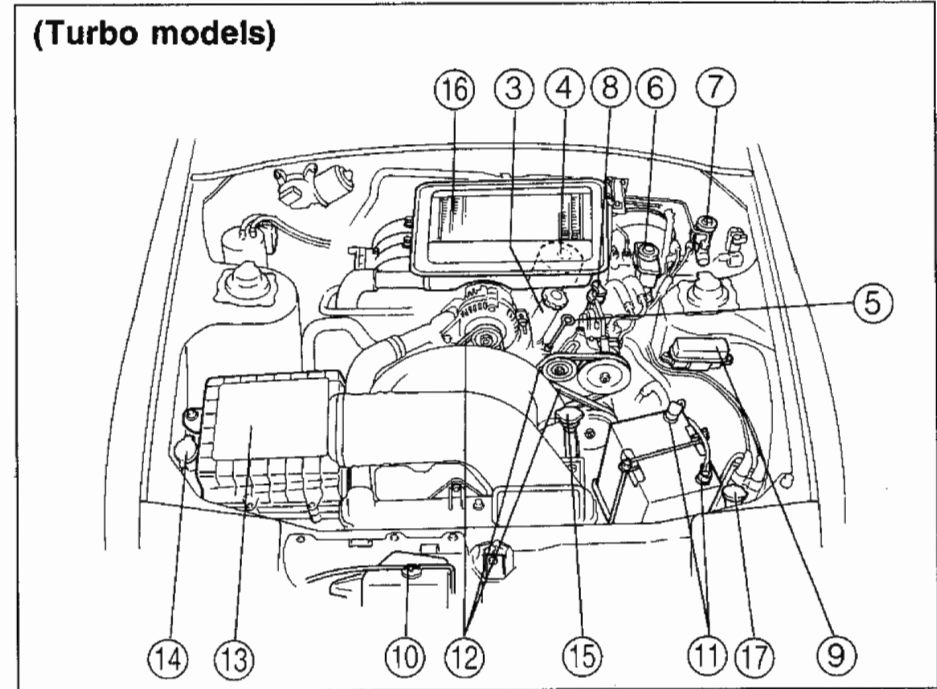
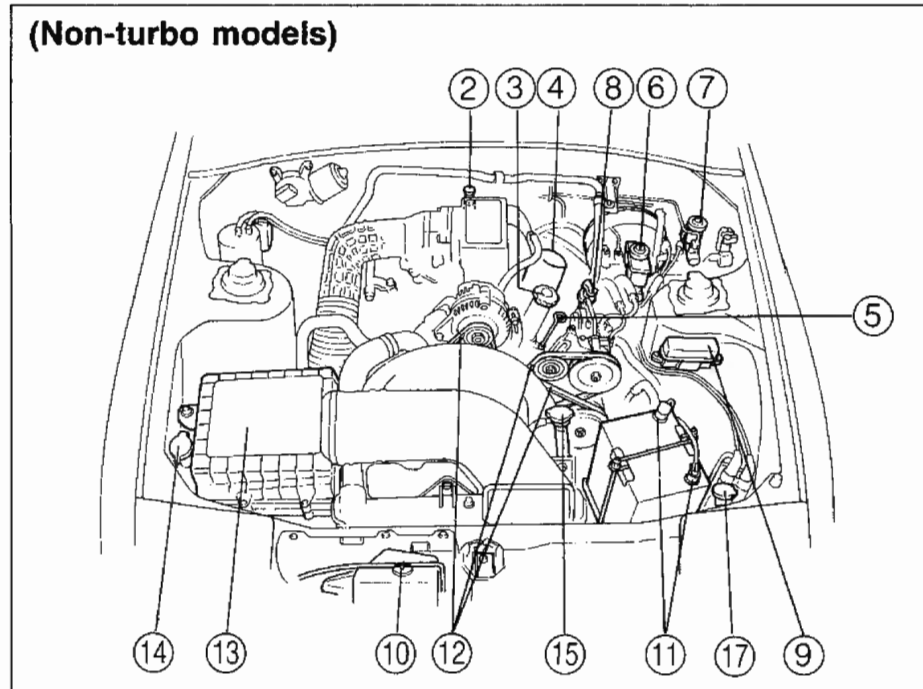
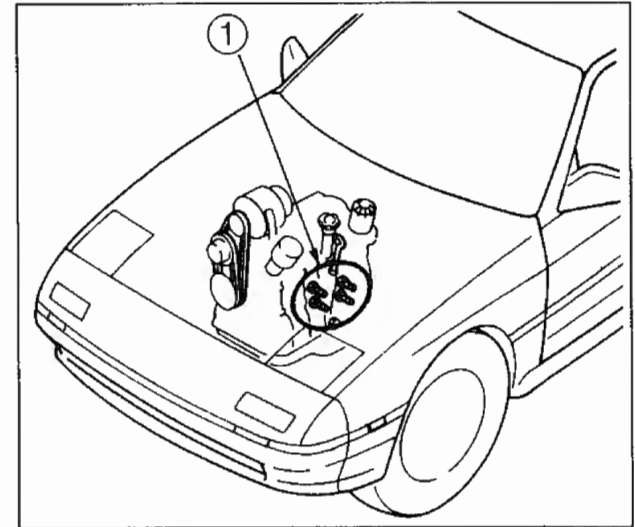
The following maintenance items are some of the scheduled maintenance items. However, these items are easily done yourself, if you have a little mechanical ability and a few basic automotive tools.

- **ENGINE OIL AND OIL FILTER**  
(See page 6-18.)
- **MANUAL TRANSMISSION OIL**  
(See page 6-19.)
- **BRAKE PEDAL**  
(See page 6-20.)
- **PARKING BRAKE**  
(See page 6-21.)
- **REAR AXLE OIL**  
(See page 6-22.)
- **COOLING SYSTEM**  
(See page 6-23.)
- **SPARK PLUGS**  
(See page 6-24.)
- **AIR CLEANER**  
(See page 6-25.)

## ENGINE COMPARTMENT

- |  |                                       |
|--|---------------------------------------|
| 1. *Spark plugs  | 11. Battery terminals                 |
| 2. *Automatic transmission fluid level gauge             | 12. Drive belts                       |
| 3. Engine oil filler cap                                 | 13. Air cleaner                       |
| 4. Oil filter  | 14. Windshield washer fluid reservoir |
| 5. Engine oil level gauge (dipstick)                     | 15. Radiator cap                      |
| 6. Brake fluid reservoir                                 | 16. Intercooler                       |
| 7. Clutch fluid reservoir                                | 17. *Headlight washer fluid reservoir |
| 8. Power steering fluid filler cap<br>(with level gauge) |                                       |
| 9. Main fuse block                                       |                                       |
| 10. Radiator coolant reservoir                           |                                       |

\* if equipped



## OWNER MAINTENANCE SERVICE PRECAUTIONS

When performing any inspection or maintenance work on your vehicle, always exercise care to prevent personal injury to yourself or damage to the vehicle. Here are some general precautions that should be closely observed in carrying out any service operation.

- Do not work on the engine while it is hot. Always turn it off and allow it to cool.
- If you must work with the engine running, make sure that no article of clothing, including ties and handkerchiefs, can become entangled with any moving parts. Remove watches, bracelets, rings, necklaces, and similar items. Keep hands, clothing, hair, and tools away from moving fan and drive belts.
- Never get under the vehicle while it is supported by a jack. If it is necessary to work under the vehicle, use safety stands.
- Keep smoking materials, flames and sparks away from all fuel and fuel-related parts and the battery.
- Never connect or disconnect either the battery or any transistorized component while the ignition switch is on.

- When connecting the battery cables, pay particular attention to their polarities. Never connect the positive cable to a negative terminal or a negative cable to a positive terminal.
- Remember that battery and ignition cables carry high-voltage currents. Be careful not to cause a short circuit.
- When performing any checks with the engine running in an enclosed space, such as in a garage, be sure there is proper ventilation.

You should be aware that improper or incomplete service may result in operating problems. This section gives instructions only for those items that are relatively easy for an owner to perform. As explained in Scheduled Maintenance, there are still a number of items that must be done by a qualified service technician with special tools.

Improper performance of maintenance during the warranty period may affect your warranty coverage. Read the separate Mazda Warranty statement for details. If in doubt about any service, have it done by an Authorized Mazda Dealer.

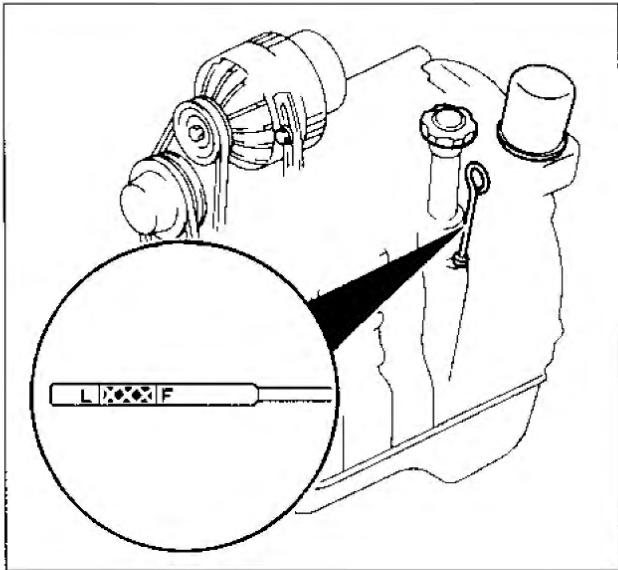
## CHECKING ENGINE OIL LEVEL

1. Be sure the vehicle is on level ground.
2. Warm up the engine to the normal operating temperature.
3. Turn the engine off and wait five minutes.
4. Pull out the dipstick, wipe it clean, and reinsert it fully.
5. Pull the dipstick out again and note the reading. If the level is between the F and L marks, it is adequate.  
If it is near or at the L line, add enough oil to bring the level to the F line.

### NOTE

Distance between the L and F marks on the dipstick represents the following.

1.05 US qt (0.87 Imp qt, 1.0 liter)



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## CHECKING WINDSHIELD WASHER FLUID LEVEL

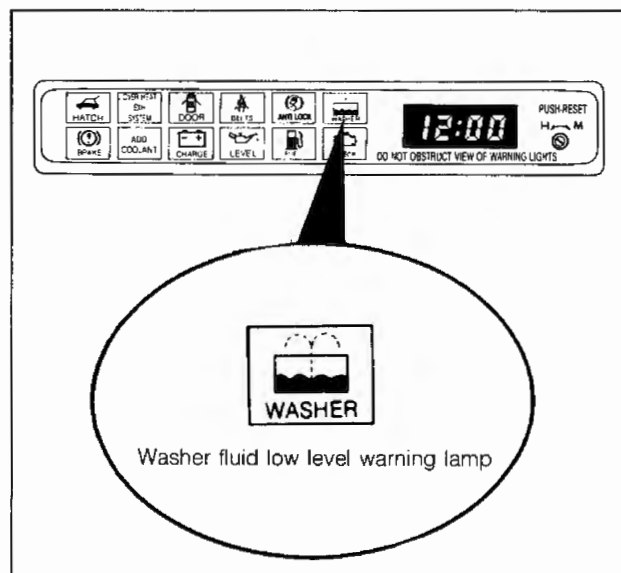
The washer fluid levels can be checked through the function of the washer fluid low level warning lamp only.

If the warning lamp comes on, add washer fluid as soon as possible.

In cold weather, use washer fluid to prevent freezing.

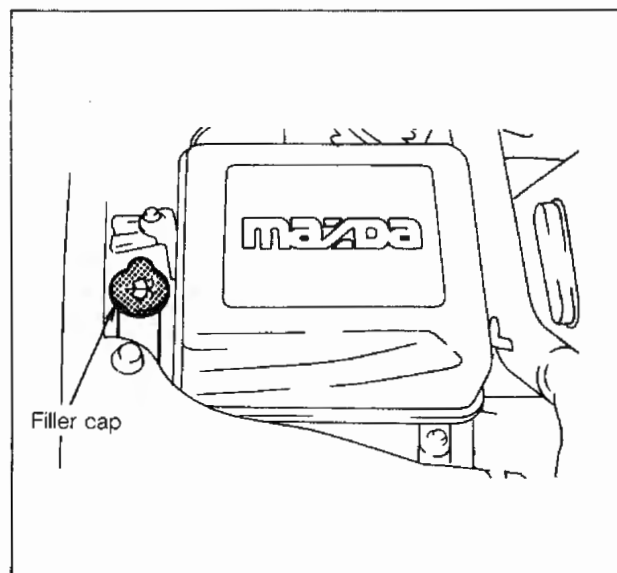
### CAUTION

Do not use radiator anti-freeze for washer fluid. This may result in damage to the paint.



## CHECKING WASHER FLUID RESERVOIR

The reservoir is located at the left front fender.



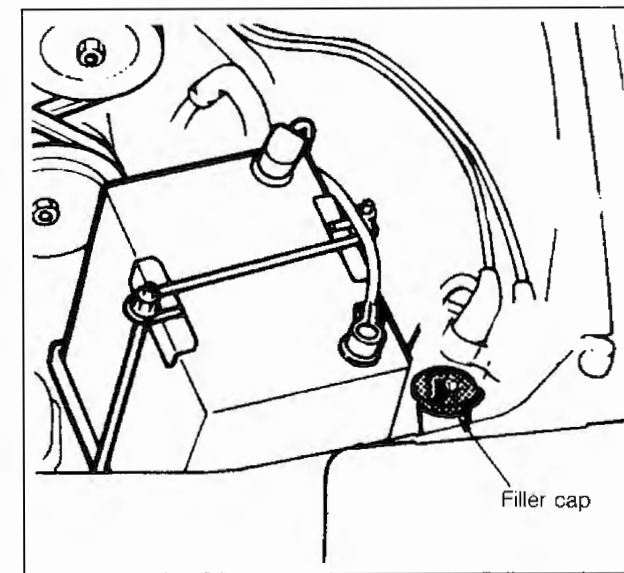
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## CHECKING HEADLIGHT WASHER FLUID LEVEL (if equipped)

The reservoir is located at the right front fender.

### CAUTION

Do not use radiator anti-freeze for washer fluid. This may result in damage to the paint.

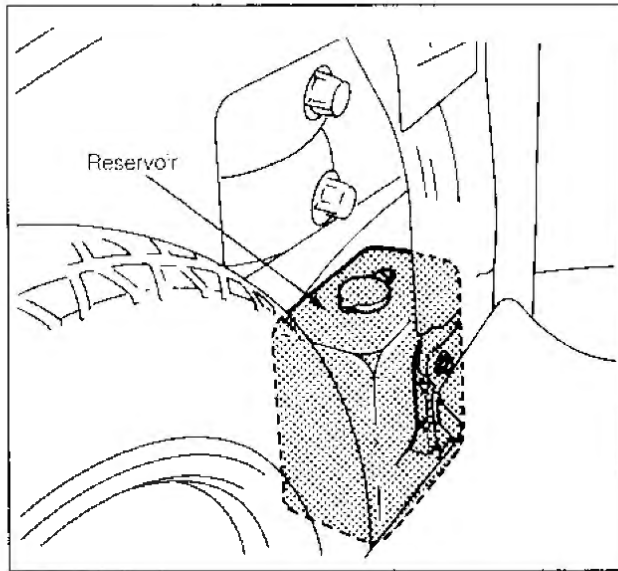


## CHECKING REAR WINDOW WASHER FLUID LEVEL (if equipped)

In cold weather, use washer fluid to prevent freezing.

### CAUTION

Do not use radiator anti-freeze for washer fluid. This may result in damage to the paint.



## CHECKING COOLANT LEVEL

### WARNING!

- Never attempt to remove the radiator cap while the engine is operating. Doing so might lead to cooling system and engine damage and could result in serious personal injury from escaping hot coolant or steam.

Turn off the engine and wait until it has cooled. Even then, use extreme care when removing the radiator cap. Wrap a thick cloth around it, and turn it slowly to the first stop.

Step back while the pressure is being released from the cooling system. When you are sure all the pressure has been released, press down on the cap—still using a cloth—turn it, and slowly remove it.

- Even if the engine is not operating, do not remove the radiator cap while the engine and radiator are hot. Scalding hot coolant and steam may still blow out under pressure, which could cause serious injury.

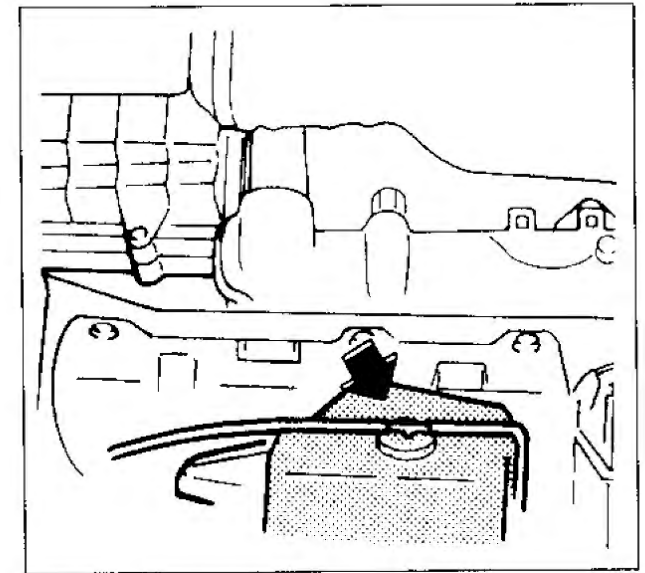
The coolant level should be full in the radiator and between the FULL and LOW marks on the coolant reservoir when the engine is cool.

If the level is near or at the LOW mark, add enough specified coolant (see page 6-23 for cooling system), to bring the level to the FULL mark.

Do not OVERFILL. If frequent additions are required, see an Authorized Mazda Dealer for a cooling system inspection.

### CAUTION

Radiator coolant will damage paint. Quickly rinse any spilled coolant from painted surfaces.



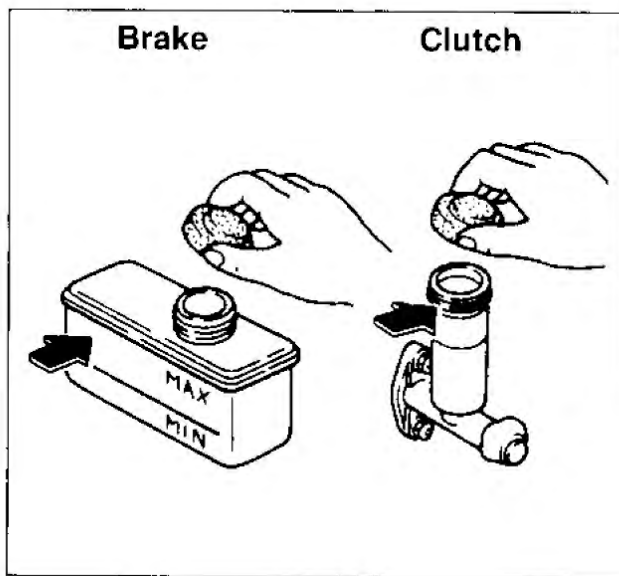
## CHECKING BRAKE AND CLUTCH FLUID LEVEL

Before checking the fluid level, clean the area around the reservoir cap thoroughly. The fluid level must be kept at the MAX level line.

If the fluid level is near or at the MIN level line, add the fluid to the MAX level line.

### CAUTION

- Use only the specified brake and clutch fluid (refer to chart on page 6-33).
- Do not mix different types of fluid.
- In the event the brake or clutch system requires frequent supplies of fluid, the vehicle should be inspected by your Authorized Mazda Dealer.
- Use caution in filling the reservoirs because brake fluid can harm your eyes and damage painted surfaces.



## CHECKING BELT TENSION

Apply moderate thumb pressure (approximately 22 lbs, 10 kg, 98N) midway between pulleys, and check the deflection.

### NOTE

If the drive belt becomes worn, cracked or frayed, it should be replaced.

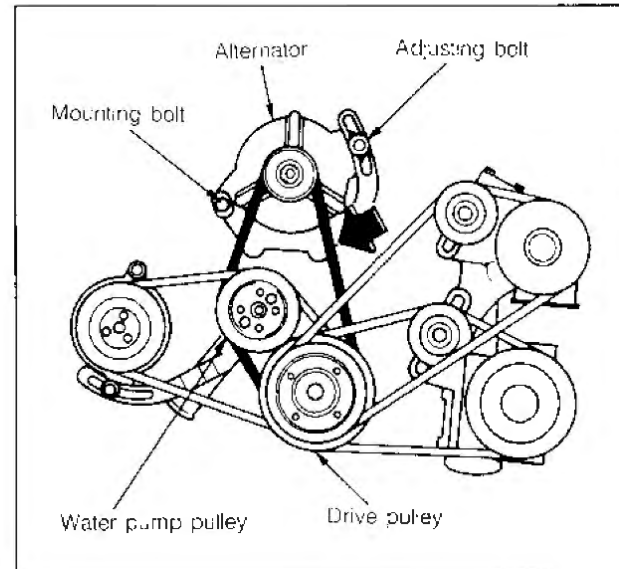
### WARNING!

Keep hair, loose clothing, neckties, necklaces, etc. away from drive belts especially when the engine is running. ALWAYS REMOVE ALL TOOLS from the engine compartment before attempting to start the engine. Any of the above items could become entangled in the belts and cause severe injury to yourself and/or damage to your vehicle.

### Alternator drive belt

1. Loosen the alternator mounting bolt and adjusting bar bolt.
2. Move the alternator to obtain proper belt tension.
3. Tighten the bolts and recheck the tension.

Deflection	New	0.47–0.59 in (12–15mm)
	Used	0.55–0.67 in (14–17mm)

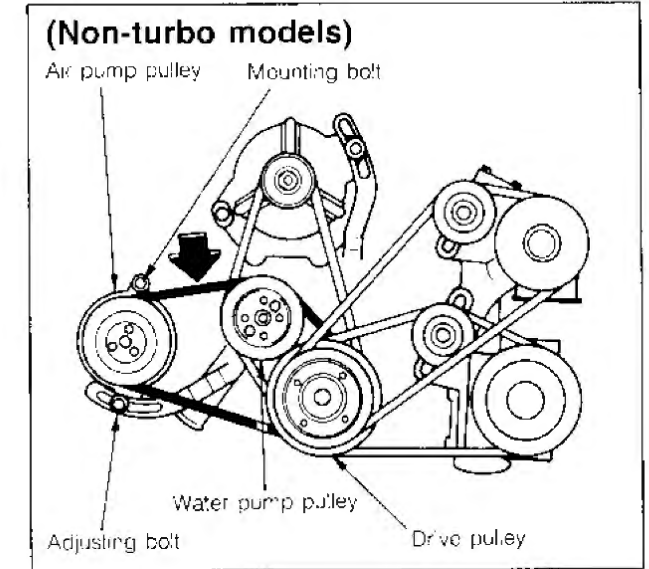


### Air pump drive belt

1. Loosen the air pump mounting bolt and adjusting bar bolt.
2. Move the air pump to obtain proper belt tension.
3. Tighten the bolts and recheck the tension.

Deflection	New	0.35–0.43 in (9–11mm)	
	Used	When applying pressure	0.43–0.51 in (11–13mm)
		*When pulling	0.47–0.57 in (12–14.5mm)

\* Turbo models



### Air conditioner drive belt (if equipped)

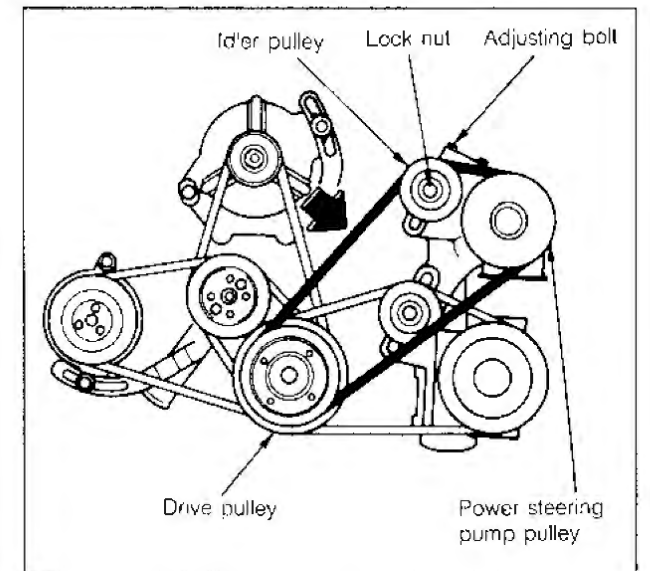
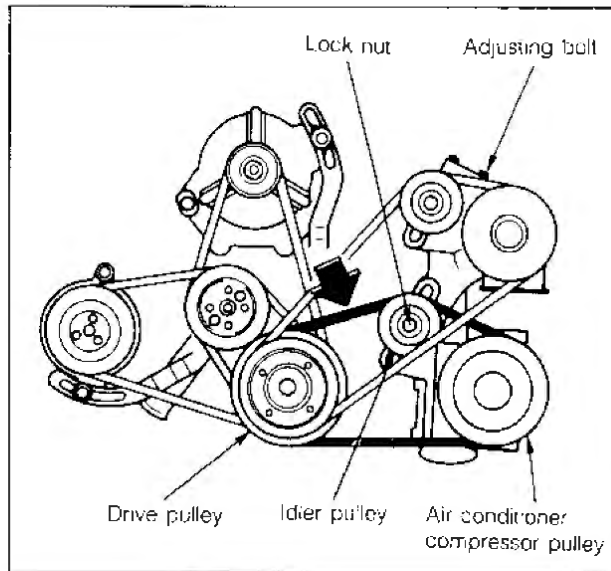
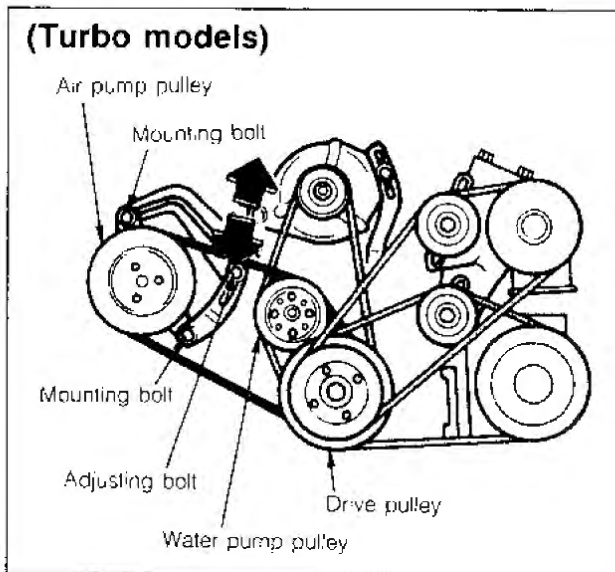
1. Loosen the lock nut on the idler pulley.
2. Turn the adjusting bolt until the correct tension is obtained.
3. Tighten the lock nut and recheck the tension.

Deflection	New	0.24—0.31 in (6—8mm)
	Used	0.31—0.35 in (8—9mm)

### Power steering pump drive belt (if equipped)

1. Loosen the lock nut on the idler pulley.
2. Turn the adjusting bolt until the correct tension is obtained.
3. Tighten the lock nut and recheck the tension.

Deflection	New	0.43—0.51 in (11—13mm)
	Used	0.55—0.63 in (14—16mm)



## CHECKING TIRE INFLATION PRESSURES

All tire pressures (including the spare) should be checked monthly when the tires are cold. Recommended pressures must be maintained for the best ride, top vehicle handling and minimum tire wear.

Refer to the tire pressure chart label (see page 8-3) or tire specification charts shown on this page.

### NOTE

Warm tires normally exceed pressures recommended by the tire manufacturers; therefore, do not release air from warm tires to adjust the pressure.

### WARNING!

Overinflation or underinflation can reduce tire life, adversely affect vehicle handling and lead to sudden tire failure. This could result in an unexpected loss of vehicle control.

### 2-seater models

#### (15 in. wheel)

VEHICLE CAPACITY WEIGHT	(FC01A) 154 kg (340 lbs)
SEATING CAPACITY	FRONT SEAT ..... 2 REAR SEAT ..... 0 TOTAL ..... 2
TIRE INFLATION PRESSURE	FRONT & REAR kgf/cm <sup>2</sup> (psi) 2.2 (32)
TIRE SIZE	205/60R15 89H

#### (15 in. wheel)

VEHICLE CAPACITY WEIGHT	(FB05A) 154 kg (340 lbs)
SEATING CAPACITY	FRONT SEAT ..... 2 REAR SEAT ..... 0 TOTAL ..... 2
TIRE INFLATION PRESSURE	FRONT & REAR kgf/cm <sup>2</sup> (psi) 2.2 (32)
TIRE SIZE	205/60VR15

### (16 in. wheel, Viscous Limited Slip Differential models)

VEHICLE CAPACITY WEIGHT	(FC17A) 154 kg (340 lbs)
SEATING CAPACITY	FRONT SEAT ..... 2 REAR SEAT ..... 0 TOTAL ..... 2
TIRE INFLATION PRESSURE	FRONT & REAR kgf/cm <sup>2</sup> (psi) 2.2 (32)
TIRE SIZE	205/55R16 88V

### 4-seater models

#### (15 in. wheel)

VEHICLE CAPACITY WEIGHT	(FB09) 308 kg (680 lbs)
SEATING CAPACITY	FRONT SEAT ..... 2 REAR SEAT ..... 2 TOTAL ..... 4
TIRE INFLATION PRESSURE	FRONT & REAR kgf/cm <sup>2</sup> (psi) 2.2 (32)
TIRE SIZE	205/60VR15

(psi—pounds per square inch)

## ENGINE OIL AND OIL FILTER

### WARNING!

- Stop the engine before removing the oil filter or changing the engine oil. Only when the engine has cooled a little should you proceed to change the oil and replace the oil filter.
- Continuous contact with USED engine oil has caused skin cancer in laboratory mice. Protect your skin by washing with soap and water. Keep out of the reach of children.

### CAUTION

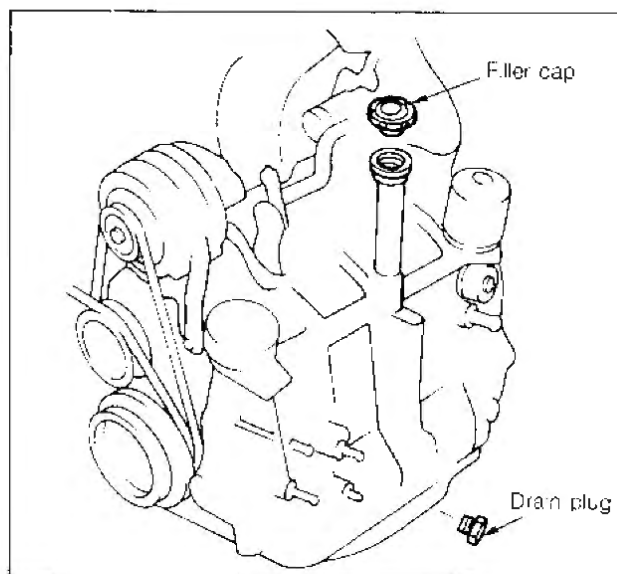
- Follow these instructions carefully. An improper oil filter installation can cause oil leakage and engine damage.
- Although oil filters may have the same external appearance, their internal designs are significantly different, and these filters are not interchangeable. To avoid any potential engine damage, use only the specified filter for each application.

## CHANGING ENGINE OIL

1. Drain the oil by removing the oil filler cap and drain plug while the engine is warm.  
**Be careful not to burn yourself.**
2. Replace the drain plug tightly, after the oil has thoroughly drained.
3. Refill the engine with new oil to the F level marked on the dipstick.  
**Do not overfill.**
4. Refit the oil filler cap securely.

### NOTE

Use only the specified engine oil (refer to chart on page 6-33).

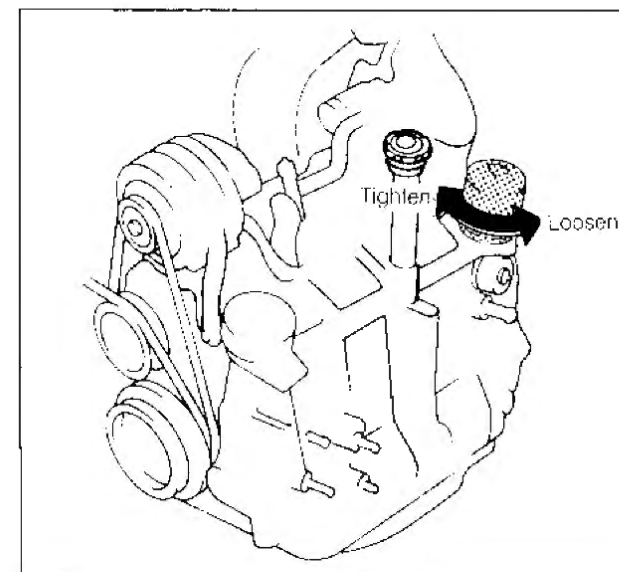


## CHANGING OIL FILTER

1. Remove the engine oil filter with a suitable wrench.
2. Use a clean rag to wipe off the mounting surface on the engine.
3. Apply a small amount of engine oil to the rubber seal of the new oil filter.
4. Install the oil filter and tighten it. (Please refer to oil filter caution label for tightening instructions.)
5. Start the engine and inspect around the oil filter seal for leaks. Check the oil level and fill to the F mark if necessary.

Oil filter capacity:

0.18 US qt (0.15 Imp qt, 0.17 liter)

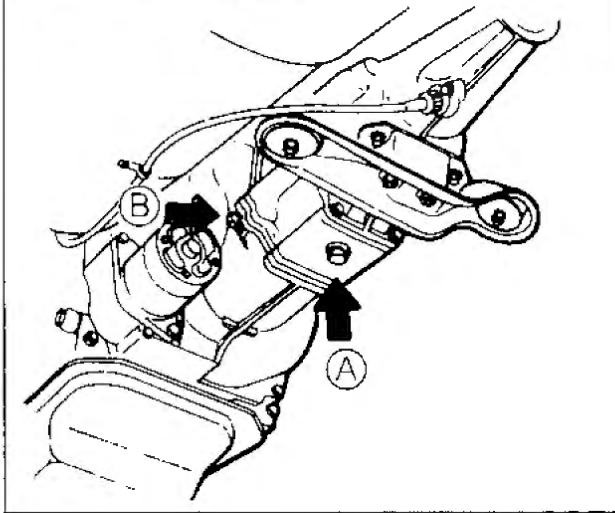


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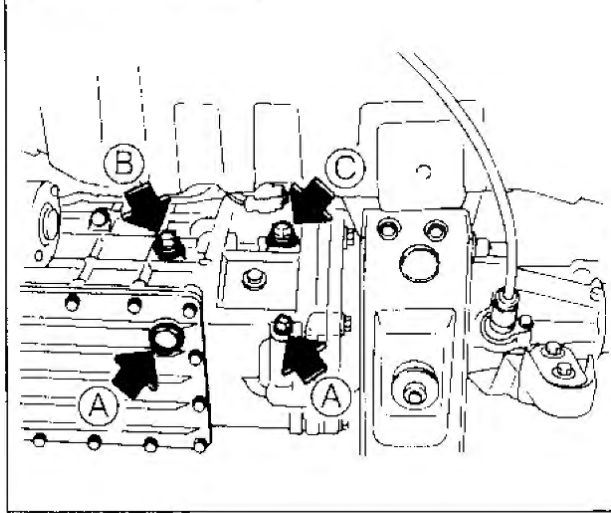
## CHANGING MANUAL TRANSMISSION OIL

1. Remove drain plug A and check plugs B (Non-turbo models) or B and C (Turbo models).
2. Wipe the drain plug clean.
3. After the oil has drained, install and retighten the drain plug.
4. **(Non-Turbo models)**  
Add lubricant until the level reaches the bottom of the check plug hole.  
**(Turbo models)**  
Add lubricant from plug B port until it reaches the bottom of check plug C hole.
5. Install and retighten the check plug.

**(Non-Turbo models)**



**(Turbo models)**



### NOTE

Use only the specified manual transmission oil (refer to chart on page 6-33).

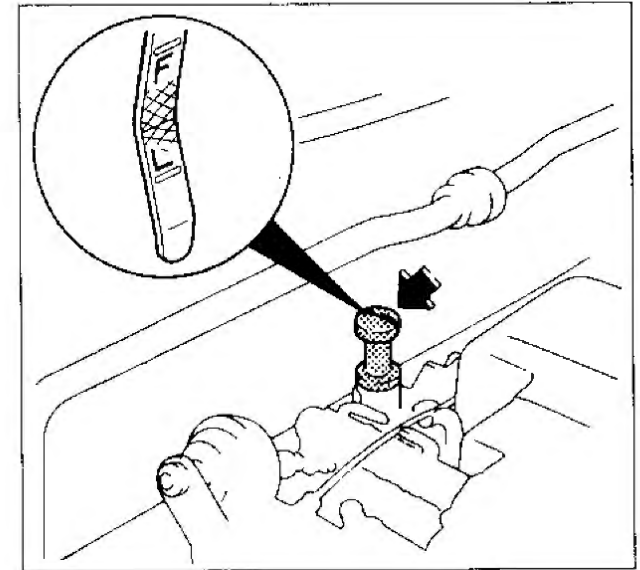
97J6-0180E

## CHECKING AUTOMATIC TRANSMISSION FLUID LEVEL

1. Park the vehicle on level ground and set the parking brake firmly.
2. Idle the engine about two minutes. Move the selector lever through all of the gear positions and latch it into the P (Park) position.

### WARNING!

To avoid sudden movement of the vehicle, depress the brake pedal while shifting the selector lever.



## NOTE

Use only the specified automatic transmission fluid (refer to chart on page 6-33).

3. Clean the dipstick cap, pull out the dipstick, wipe clean and reinsert fully.
4. Pull out again. The level should be between the L and F marks on the gauge.
5. Add fluid through the filler tube if necessary. Do not overfill.

9/16-9190E

## CHECKING BRAKE PEDAL

### • Checking brake pedal freeplay

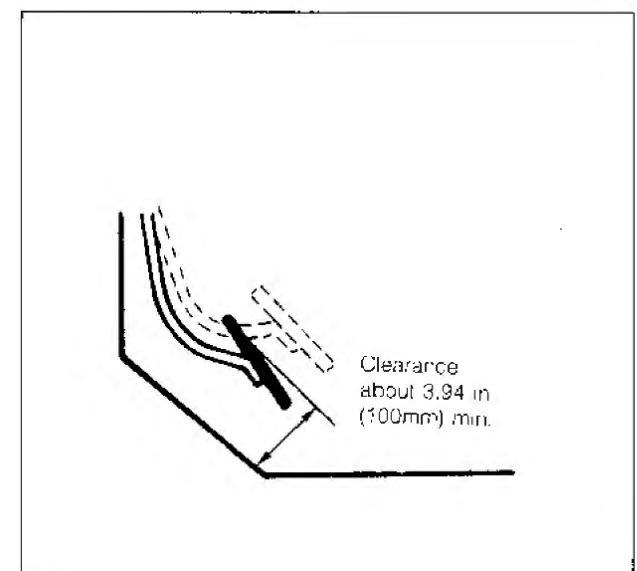
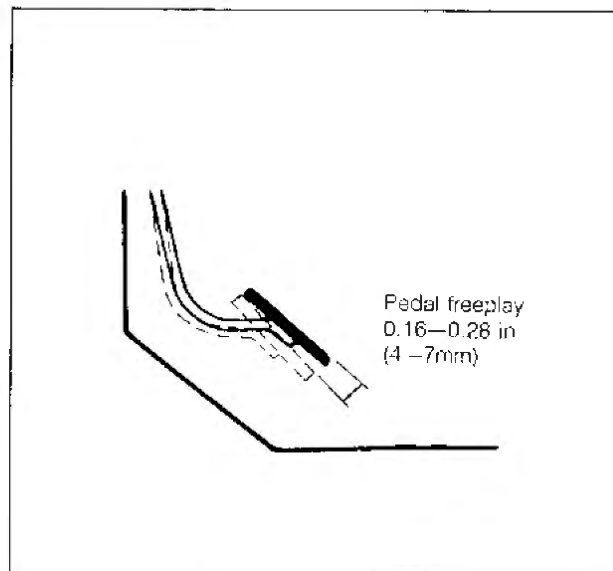
Turn off the engine and depress the brake pedal several times in order to deplete the vacuum in the power brake unit. Gently depress the brake pedal by hand and measure the distance it moves until slight resistance is felt.

If the freeplay is more or less than specification, have the brakes adjusted by your Authorized Mazda Dealer.

### • Checking brake pedal clearance

Start the engine and check the brake pedal for smooth operation and proper clearance when it is fully depressed (approximately 132 lb [60 kg, 589 N]). The clearance is measured between the center of the upper surface of the brake pedal pad and the floorboard.

If the clearance is less than about 3.94 in (100mm), have the brakes adjusted by your Authorized Mazda Dealer.

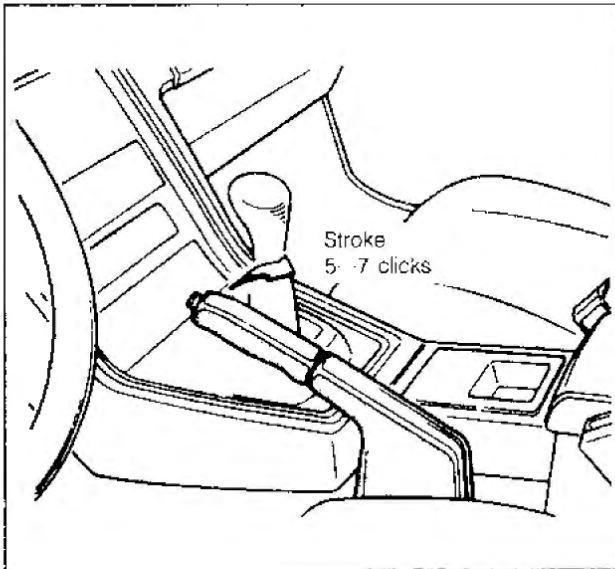


97U6-0200E

## CHECKING PARKING BRAKE

After depressing the brake pedal several times, check the stroke of the parking brake by counting the number of clicks heard while fully applying it from the released position. Also, the parking brake alone should securely hold the vehicle on a fairly steep grade. If the number of clicks is more or less than specification, have the parking brake adjusted by your Authorized Mazda Dealer.

Stroke: 5—7 clicks at a force of 22 lb  
(10 kg, 98 N)



97U6-0210E

## CHECKING POWER STEERING PUMP FLUID LEVEL

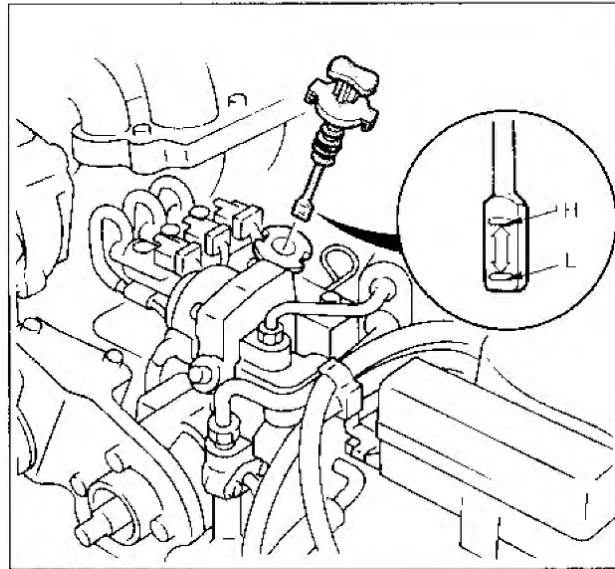
Check the fluid level in the pump each time the engine oil is changed. Add fluid if necessary. The fluid does not require periodic changing.

The level must be kept between the H and L level when fluid is cold.

Visually check the lines and hoses for leaks or damage.

### CAUTION

To avoid damage to the power steering pump do not operate the vehicle for prolonged periods with a low power steer-



ing pump fluid level.

### NOTE

Use only the specified power steering fluid (refer to chart on page 6-33).

Do not overfill. If overfilled, remove excess fluid with a suction device.

In the event the power steering system requires frequent supplies of fluid, the vehicle should be inspected by your Authorized Mazda Dealer.

97U6 0215E

## CHECKING POWER BRAKE UNIT AND HOSES

- Check the vacuum hoses, connectors, and check valve for cracks, chafing, and deterioration.
- Check the power brake unit for proper operation as described below.
  - Depress the brake pedal a few times and then hold it down. Start the engine and the pedal should drop slightly.
  - Depress the brake pedal, stop the engine and hold the pedal down for approx. 30 seconds. The pedal should neither drop nor rise.
  - Restart the engine and let it run for about 1 minute and turn it off. Then firmly depress the brake pedal several times. The pedal travel should decrease with each subsequent stroke.

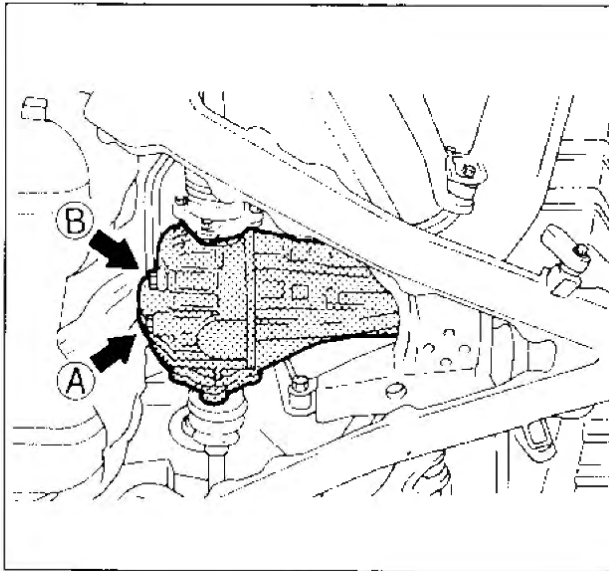
77U6 0220E

## CHANGING REAR AXLE OIL

1. Remove drain plug A and filler plug B while the oil is still warm.
2. Wipe the magnetic drain plug clean.
3. After the oil has drained completely, install and retighten the drain plug.
4. Refill with new oil until it reaches the bottom of the filler plug hole.
5. Install and retighten the filler plug.

### NOTE

If your vehicle is equipped with a limited-slip differential, it requires API GL-5, SAE90 special lubricant for limited-slip differentials. If you are not sure whether your vehicle is



equipped with a limited-slip differential, or if you have any questions, contact an Authorized Mazda Dealer.

77J6-0230E

## FRONT WHEEL BEARINGS

Consult your Authorized Mazda Dealer for proper detailed adjustment procedures and specifications.

77J6-0240E

## STEERING LINKAGE

If the vehicle is used in very dusty or sandy areas, have this inspection done frequently. The steering linkage should be inspected for proper operation at each service.

77U6 0250E

## BODY LUBRICATION

All moving points of the vehicle body, such as door and hood hinges, locks, etc., should be lubricated each time the engine oil is changed. Use an anti-freeze lubrication on locks during cold weather.

## COOLING SYSTEM

The cooling system is a high-pressure type with a see-through coolant reservoir and is filled with year-round coolant at the factory.

### CAUTION

- The engine in your vehicle has aluminum engine parts and must be protected by the an ethylene glycol base coolant to prevent corrosion or freezing. DO NOT USE alcohol or methanol antifreeze, or mix them with the specified coolant.
- Do not use a solution that contains more than 60 percent antifreeze, which would reduce the effectiveness of solution.

For mixture percentage, refer to the table below.

Protection	Mixture percentage (volume) %	
	Anti-freeze solution	Water
Above 3°F (-16°C)	35	65
Above -15°F (-26°C)	45	55
Above -40°F (-40°C)	55	45

Check the anti-freeze protection and coolant level in the radiator at least once a year—at the beginning of the winter season—and before traveling to a colder climate.

## CHECKING COOLING SYSTEM

Check the condition and connections of all cooling system hoses and heater hoses. Replace any swollen or deteriorated hoses.

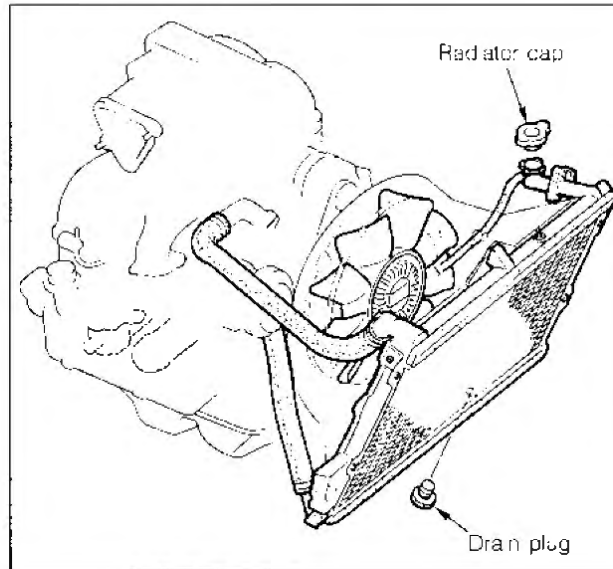
## CHANGING COOLANT

### CAUTION

- Do not use alcohol- or methanol-based coolants.
- Use only soft (demineralized) water in the coolant mixture.

### WARNING!

- See warning on page 6-13 in regard to radiator cap removal.



- Do not loosen the drain plug when the engine is hot.

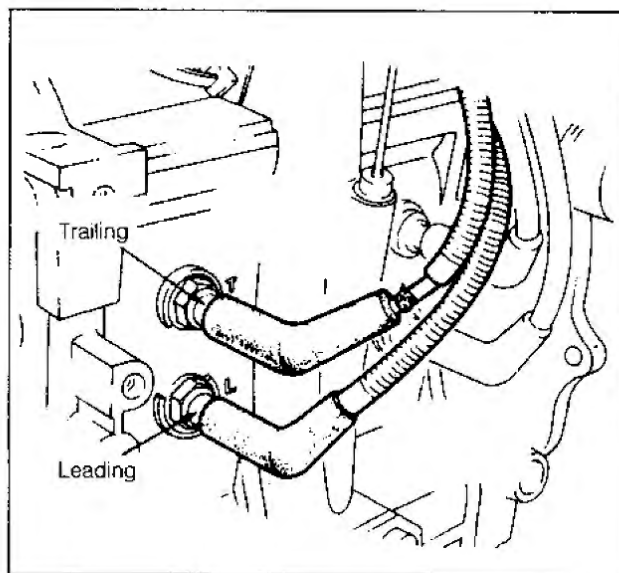
1. Remove the radiator cap.
2. Loosen the radiator drain plug, and let the coolant drain.
3. Move the temperature control lever to the extreme right side.
4. With the drain plug left loose flush the system out with water.
5. Let the system drain completely and retighten the drain plug. Add the necessary amount of ethylene-glycol coolant and water to provide the required freezing and corrosion protection. In extremely cold climates, add the necessary amount of ethylene glycol-based coolant in accordance with the instructions of the coolant manufacturer.
6. Run the engine at idle speed with the radiator cap removed, and slowly add additional coolant if necessary.
7. At this point, wait until the engine reaches normal operating temperature. Depress the accelerator two or three times; then add coolant if required.
8. Install the radiator cap. Inspect all connections for leaks and recheck the coolant level in the reservoir.

## SPARK PLUGS

If necessary, clean the electrodes with a fine wire brush and carefully file the carbon off the insulator with a small file.

The plugs should then be blown clean with compressed air and the upper insulator wiped clean.

Recommended Spark Plugs		
	Leading	Trailing
NGK	BUR7EQ	BUR9EQ

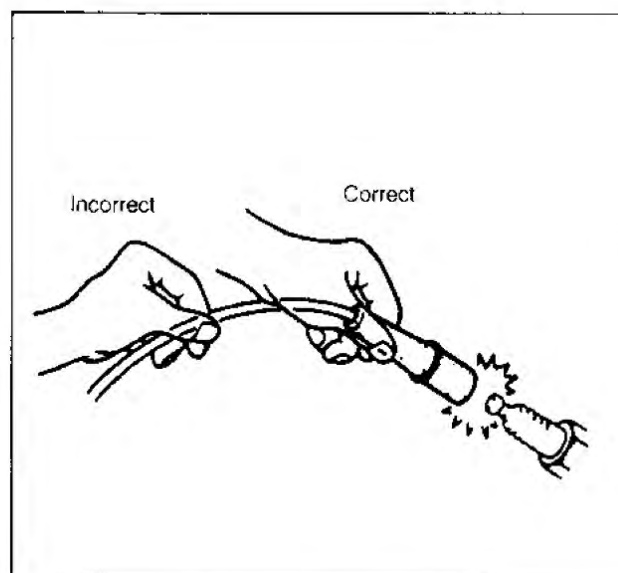


### CAUTION

- Do not use conventional types of abrasive spark plug cleaners because sand may remain inside the plug and later cause damage to the engine.
- When you replace the spark plugs, make sure that you do not mix the Leading and Trailing sides.

### NOTE

- When installing the plugs, use a small amount of anti-seize compound or molybdenum-based thread lubricant on the first few threads.
- When removing the spark plug cables, pull on the boot, not on cable itself.



## AIR CLEANER

An air cleaner element fits inside the air cleaner housing on the passenger side of the engine compartment. If the vehicle is operated in very dusty or sandy areas, it is recommended that the element be replaced more often than at the usual recommended intervals. When replacement is necessary, you should use only a genuine Mazda air cleaner element or one of equal quality which meets Mazda specifications.

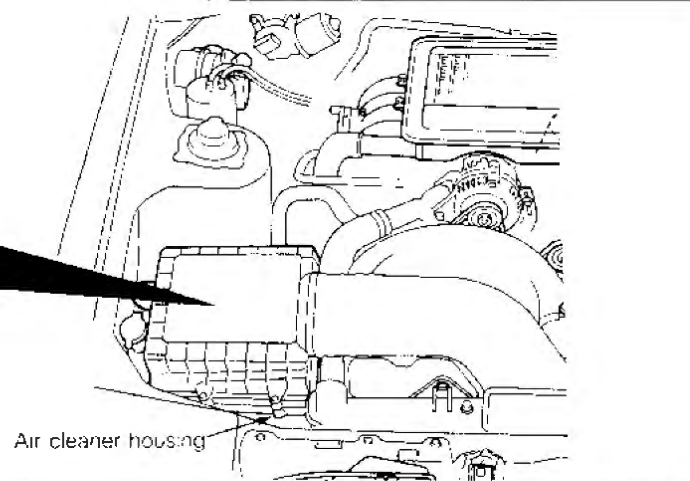
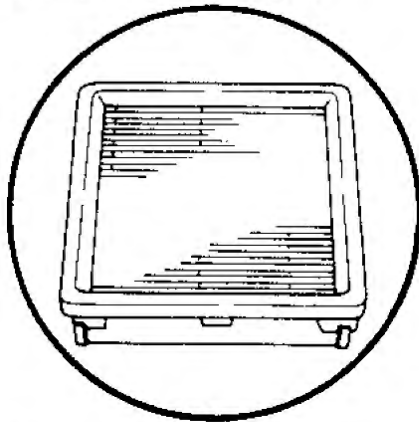
### CAUTION

Do not remove the air cleaner unless temporary removal is necessary during repair or maintenance of the vehicle. Be absolutely certain that all connections to the air cleaner are firmly in place.

### AIR CLEANER ELEMENT SPECIFICATION

1. The air cleaner element should be fabricated with filter paper having a pore size of under 0.002 inch.
  - Pore size testing method (bubble method) as per Fuel Filter Test Method—SAE J905.
2. The restriction on the new element should not exceed 5.5 inches of water at an air flow of 425 cu-feet/min.
  - Element restriction testing method as per Air Cleaner Test Code—SAE J726b.

### AIR CLEANER ELEMENT



## BATTERY

### **WARNING!**

- Keep lighted cigarettes and all other flames or sparks away from the battery. Hydrogen, which is a highly combustible gas, is always present in battery cells.
- Keep batteries out of the reach of children because they contain SULFURIC ACID. Prevent its contact with skin, eyes, clothing, or the vehicle.
- If electrolyte gets into your eyes, flush them 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.
- When charging or working near a battery, always shield your eyes. Always provide ventilation.  
When lifting a plastic-cased battery, lift with a battery carrier or with your hands on opposite corners.
- Never attempt to charge the battery when the negative (–) cable lead is connected.

### **MAINTENANCE**

For best battery service:

- Keep battery securely mounted.
- Keep battery top clean and dry.
- Keep terminals and connections clean, tight, and coated with petroleum jelly or terminal grease.
- Rinse any spilled electrolyte from the battery immediately with a solution of water and baking soda.
- If the vehicle is not going to be used for an extended time, disconnect the battery cables.

### **BATTERY RECHARGING**

Your vehicle has a Maintenance-Free (MF) calcium-based battery.

- When using a normal-type battery charger (constant current or semiconstant voltage charger), recharge the battery for 12 hours with electric current equal to 1/10 of the battery capacity.
- When using a rapid-type battery charger, recharge in the same way as a regular battery. **Read carefully the instructions provided in the battery charger manual, and make sure you do not overcharge the battery.**

### **CAUTION**

When recharging the battery according to the procedures described above, observe the following precautions.

- The battery must be removed from the vehicle and put in an airy place.
- Do not bring anything like a fire, cigarettes, sparks, or flame near the battery.
- Disconnect the battery charger in the following order.
  - 1) Turn off the battery charger main switch.
  - 2) Unhook the negative clamp from the negative terminal.
  - 3) Unhook the positive clamp from the positive terminal.

### **NOTE**

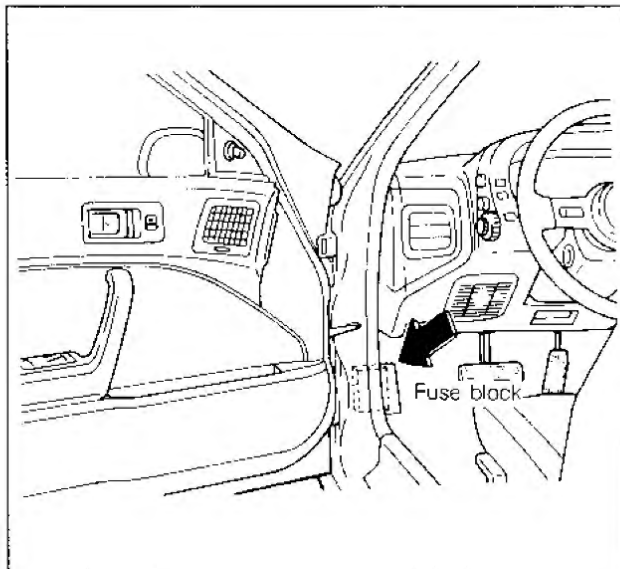
- Before performing maintenance or recharging the battery, turn off all accessories and stop the engine.
- The negative (–) cable must be removed first and installed last.

## FUSES

Use only specified fuses if replacement is necessary. If an electrical failure occurs, check for a blown fuse and replace as necessary. If the same fuse blows again, avoid using the system involved and bring the problem immediately to the attention of your Authorized Mazda Dealer.

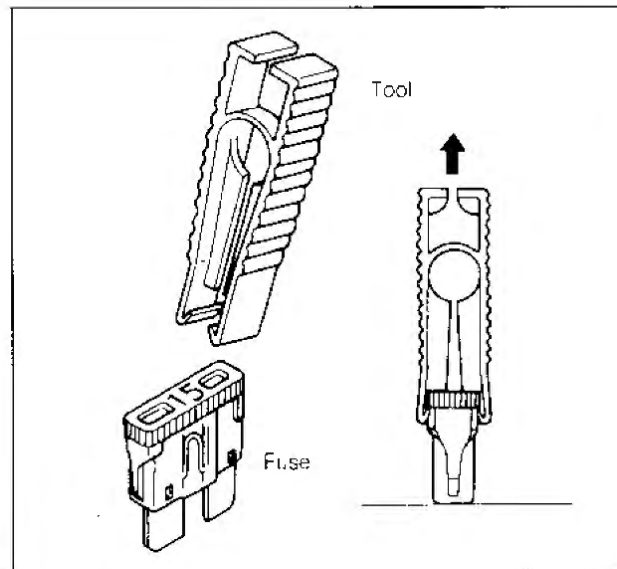
### CAUTION

Always replace a blown fuse with the same rating as specified.  
Never install a wire instead of the proper fuse even for a temporary repair. It may cause extensive damage and possibly a fire.



Do not use a screwdriver or any other metal object to remove fuses, as an electrical short circuit may occur and damage the system.

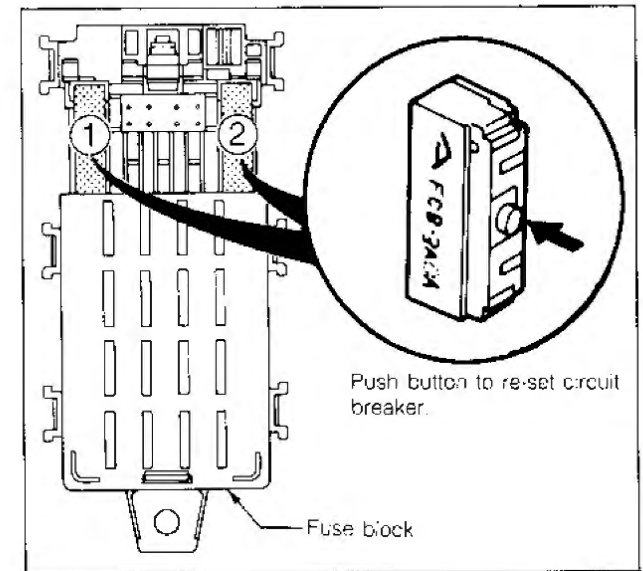
When replacing a fuse, turn the ignition switch off. Pull the blown fuse straight out using the removal tool provided. Push a new one in place.



Because the heater, air conditioner and rear window defroster consume a large amount of power, circuit breakers are provided in their circuits for safety.

If the circuit is broken by the circuit breaker, turn all heater and air conditioner switches off and restore the circuit by pushing the reset button. If the circuit breaks again, have the vehicle inspected by an Authorized Mazda Dealer.

1. For heater/air conditioner.
2. For rear window defroster.

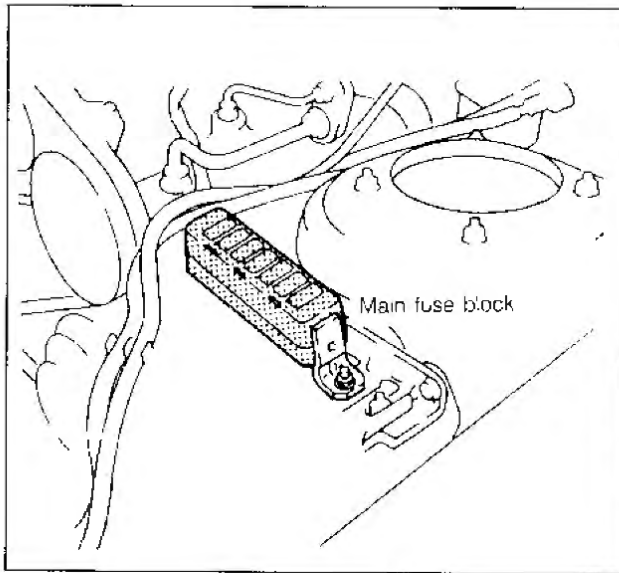


### Main fuse block

If the headlights or other electrical components do not work and the fuses in the passenger's compartment are O.K., check the main fuses. In the engine compartment open the cover over the main fuses by lifting the tab on the cover end. Then tilt the cover up and away. If a fuse is melted, it must be replaced.

### Replacing a main fuse

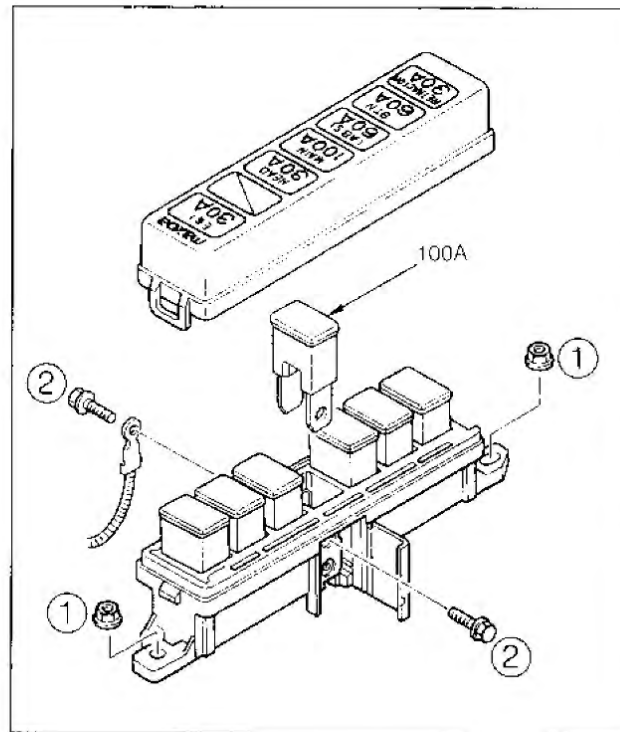
When replacing a fuse, make sure the ignition switch is off. For all main fuses EXCEPT the 100A central fuse, pull the blown fuse straight up and out. Push a new one in place. For the 100A fuse, see the following note.



### NOTE

When replacing the 100A fuse, follow these steps:

1. Disconnect the battery negative cable.
2. Remove the nuts 1, holding the fuse block, to gain access to the 100A fuse bolts 2. Remove as in the illustration.

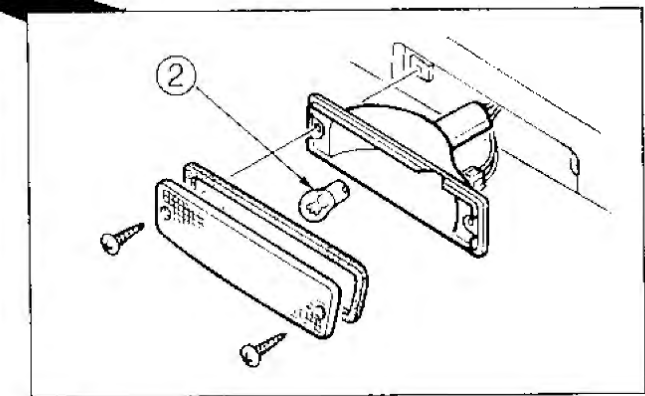
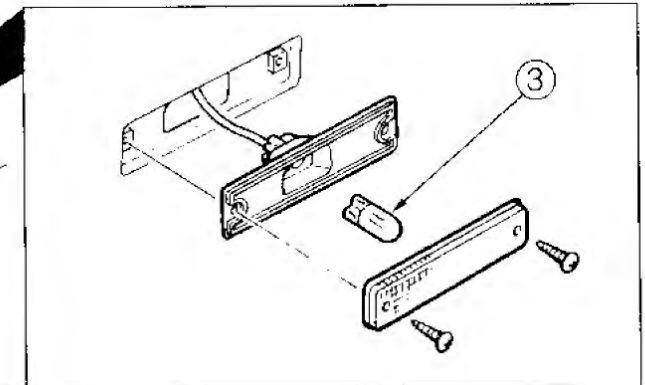
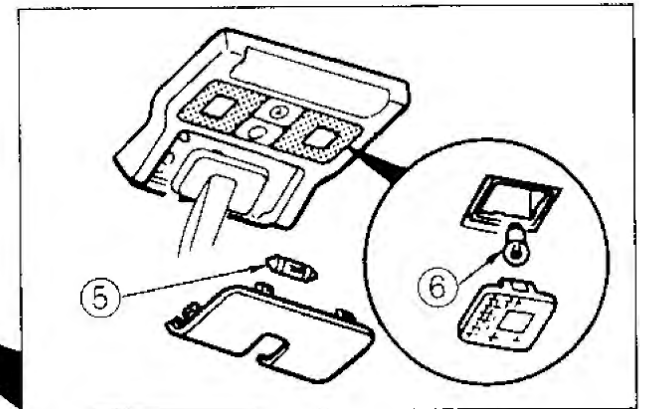
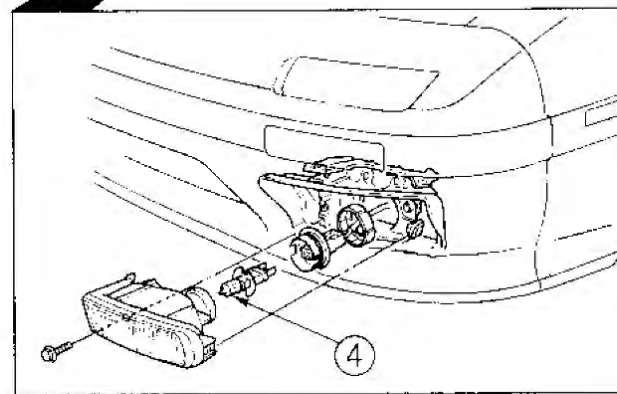
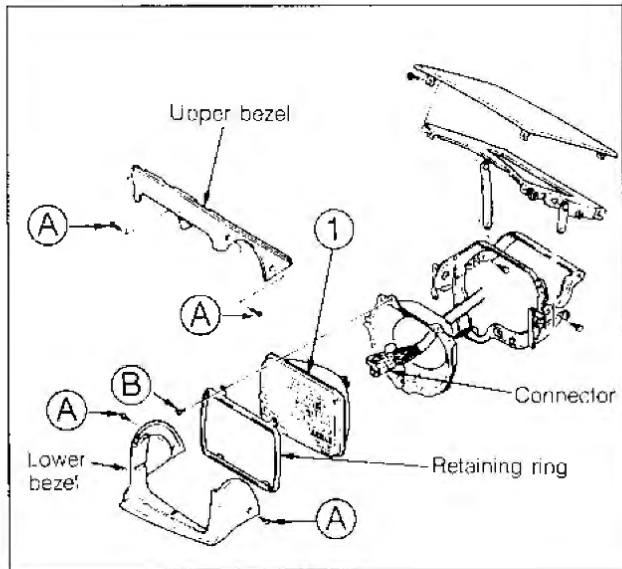


# LIGHT BULBS

## FRONT

	Light bulb	Wattage	Bulb trade number
1	Headlight High/Low	65/40	HP6054
2	Turn signal light/ Parking light	27/8	1157
3	Side marker light	3.8	194
4	*Fog light	55	—
5	Interior light	10	—
6	Map light	5	168

\* if equipped



### **REPLACEMENT OF HEADLIGHT BULB**

1. Raise the headlights with the headlight retractor switch.
2. Disconnect the negative(-) battery terminal.
3. Unscrew the screws A and remove the upper and lower bezel.
4. Unscrew the screws B and remove the retaining with the headlight bulb.
5. Disconnect the light connector.
6. Install the new bulb in the reverse order of removal.

### ***WARNING!***

To avoid personal injury that might occur due to accidental lowering of the headlights while you are replacing the headlight bulb, disconnect the negative (-) battery terminal.

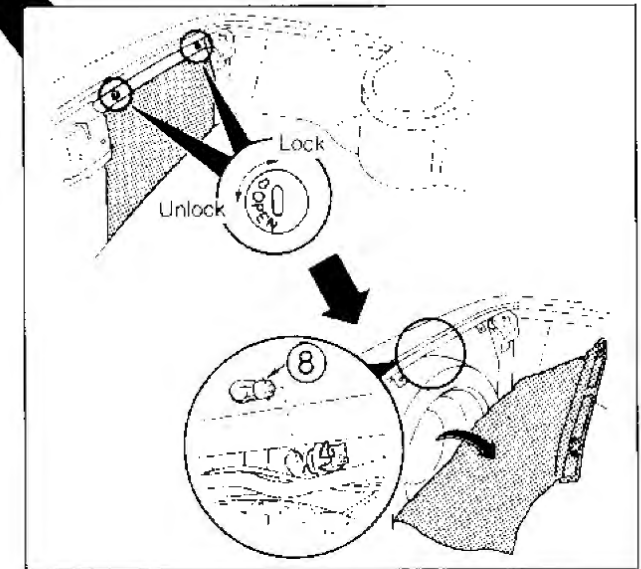
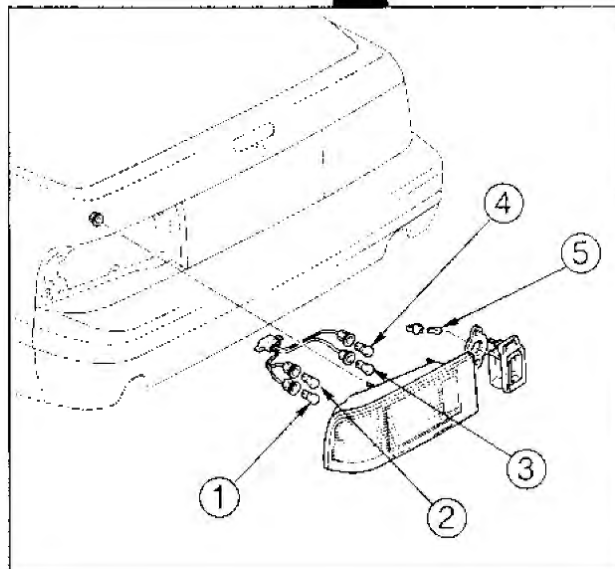
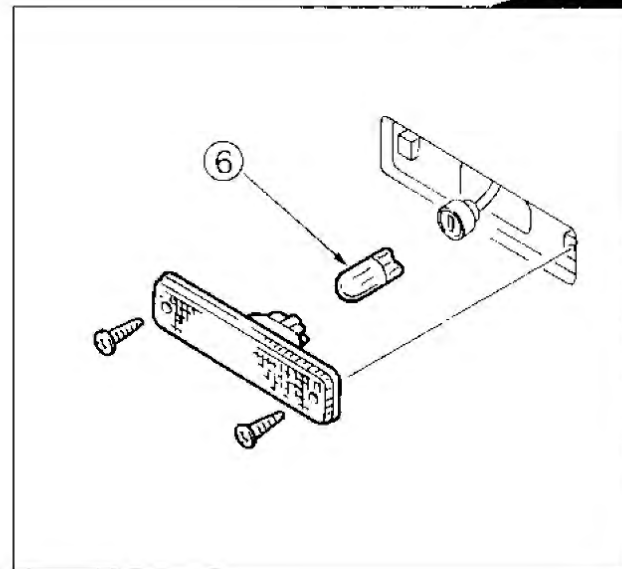
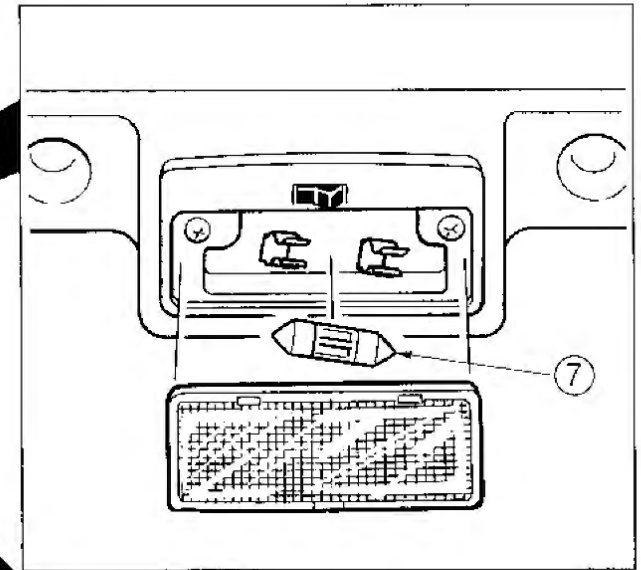
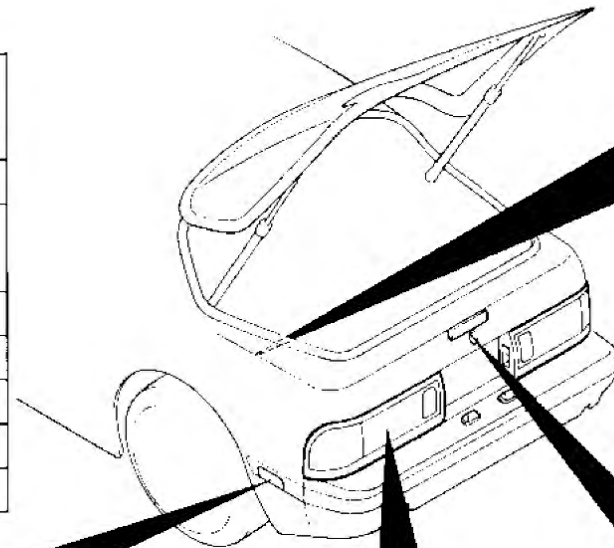
### **NOTE**

Remember that radio stations memorized on the preset buttons may be erased when the battery is disconnected.

**REAR**

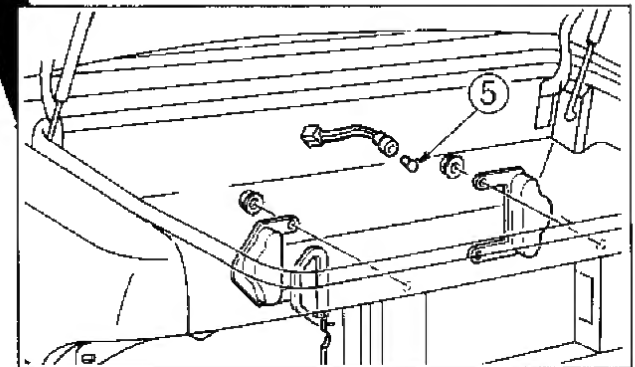
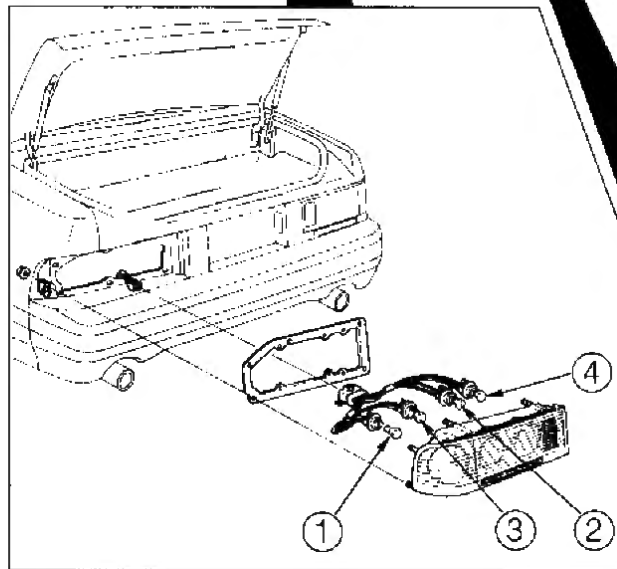
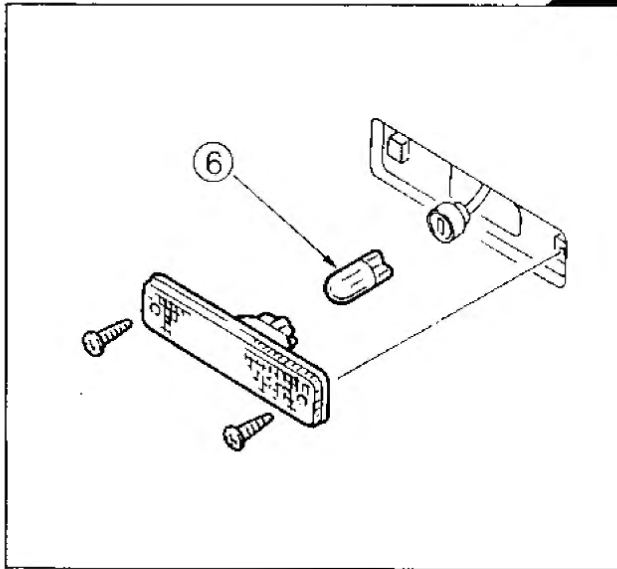
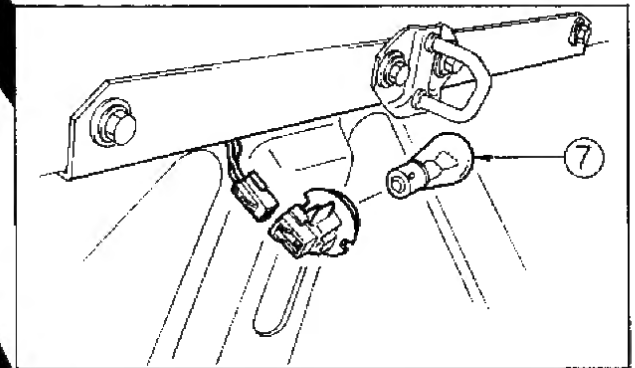
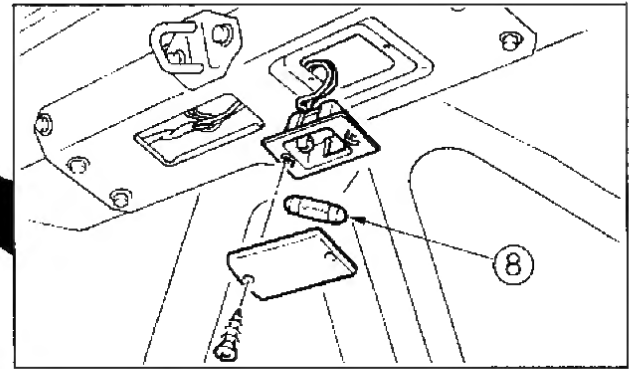
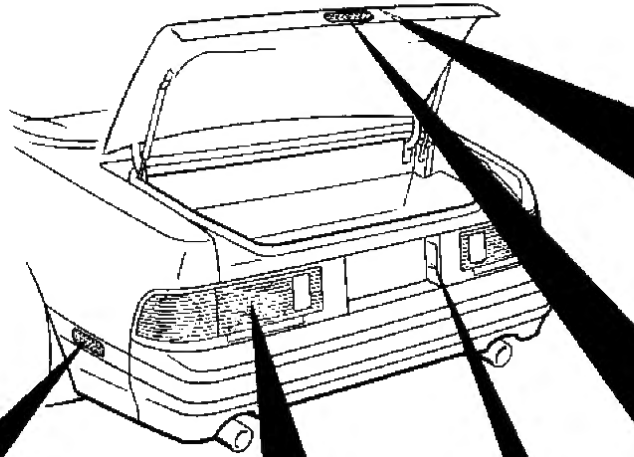
**(Except convertible top models)**

	Light bulb	Wattage	Bulb trade number
1	Turn signal light	27	1156
2	Stop light/Taillight	27/8	1157
3			
4	Back-up light	27	1156
5	License plate light	7.5	89
6	Side marker light	3.8	194
7	Cargo light	5	—
8	High mount stop light	27	1156



**(Convertible top models)**

	Light bulb	Wattage	Bulb trade number
1	Turn signal light	27	1156
2	Stop light/Taillight	27/8	1157
3			
4	Back-up light	27	1156
5	License plate light	7.5	89
6	Side marker light	3.8	194
7	High mount stop light	27	1156
8	Trunk light	5	—



**RECOMMENDED LUBRICANTS**

Item	Classification	Service intervals
Engine oil*	API Service Fuel efficient SF grade (Mineral oil only)	<b>NOTE</b> Refer to the Scheduled Maintenance chart.
Manual transmission oil*	API Service GL-4, GL-5	
Automatic transmission fluid	ATF Dexron®-II or M-III	
Rear axle oil*	API Service GL-5	
Power steering fluid	ATF Dexron®-II or M-III	
Wheel bearing grease	NLGI No. 2 (Lithium base)	
Multi purpose grease	NLGI No. 2 (Lithium base)	
Brake and clutch fluid	SAE J1703, or FMVSS116 DOT-3	

\* Refer to the recommended SAE viscosity numbers on the next page.

**RECOMMENDED SAE VISCOSITY NUMBERS**

Temperature °F (°C)	Temperature range anticipated before next oil change, °F (°C)								
	-20 -30	0 -20	20 -10	40 0	60 10	80 20	100 30	120 40	120 50
Engine oil	5W-30								
	10W-30								
	10W-40			10W-50					
	20W-40				20W-50				
Rear axle oil*	80W			90					
Manual transmission oil					80W-90				
	75W-90								

\*Use only SAE 90 gear oil in limited-slip differential gear box.

**NOTE**

When you change or add oil, select the proper SAE viscosity. Check the accompanying table and select the one that most closely matches the temperature range you expect to encounter.

**CAUTION BEFORE CHECKING LUBRICANTS:**

Always be sure to clean the area around any filler plug, drain plug or dip stick before checking or draining any lubricant. This is especially important in dusty/sandy areas or when the vehicle is used on unpaved roads. Cleaning the plug and dipstick areas will prevent dirt and grit from entering the engine or other areas which could be damaged.

# 7. CONSUMER INFORMATION

67U7-0020E

## **UNIFORM TIRE QUALITY GRADING**

The following information relates to the tire grading system developed by the National Highway Traffic Safety Administration which will grade tires by treadwear, traction and temperature performance:

### **TREADWEAR**

The treadwear grade is a comparative rating based on the wear rate of the tire when tested under controlled conditions on a specified government test course. For example, a tire graded 150 would wear one and a half (1½) 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.

67U7-0030E

### **TRACTION—A, B, C**

The traction grades, from highest to lowest, are A, B and C. These grades 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 (straightahead) traction tests and does not include cornering (turning) traction.

67U7-0040E

### **TEMPERATURE—A, B, C**

The temperature grades of 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 vehicle 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.

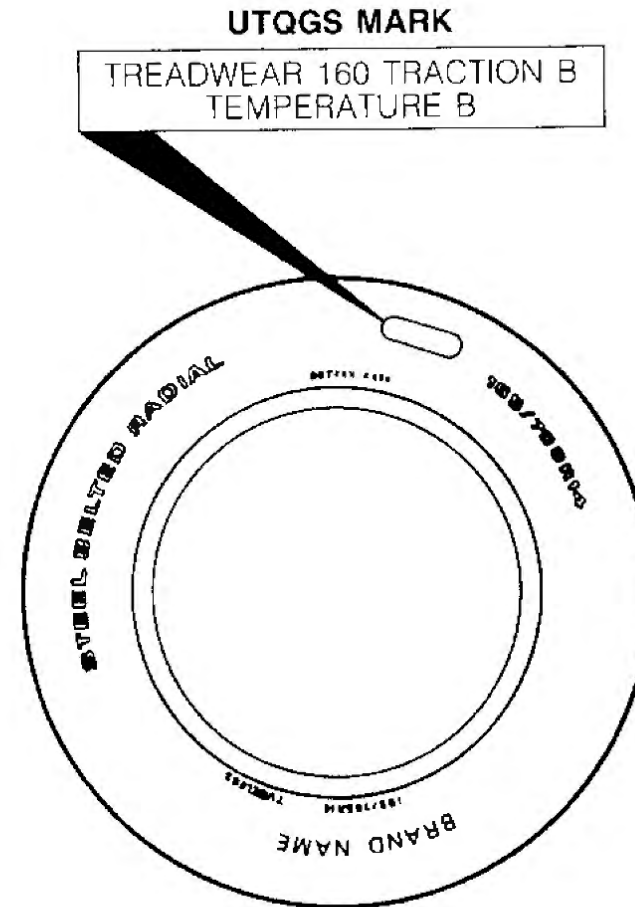
### ***WARNING!***

The temperature grade for this tire is 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.

These grades will be added to the sidewalls of passenger vehicle tires over the next several years according to a schedule established by the NHTSA and the tire manufacturers. The tires available as standard or optional equipment on Mazda vehicles may vary with respect to grade.

ALL PASSENGER VEHICLE TIRES MUST CONFORM TO FEDERAL SAFETY REQUIREMENTS IN ADDITION TO THESE GRADES.

Please refer to the tire side wall for the specific tire grades of the tires which are equipped on the vehicle.



# 8. SPECIFICATIONS

97U8-0010E

## MEASUREMENT

Overall length	169.9 in (4,315mm)
Overall width	66.5 in (1,690mm)
Overall height	49.8 in (1,265mm)
Front tread	57.1 in (1,450mm)
Rear tread	56.7 in (1,440mm)
Wheel base	95.7 in (2,430mm)

97U8-0020E

## ENGINE

Engine type	Rotary engine	
Displacement cu in (cc)	40.0 x 2 (654 x 2)	
Compression ratio	Non-turbo	9.7 : 1
	Turbo	9.0 : 1
Idle speed	Man. trans.	750 rpm in neutral
	Auto. trans.	750 rpm in N position
Ignition timing (at idle)	Trailing	20° ATDC in neutral
	Leading	5° ATDC in neutral
Oil capacity	Full	6.1 US qt (5.1 Imp qt, 5.8 liters)
	Oil pan	4.7 US qt (3.9 Imp qt, 4.4 liters)
Oil filter capacity	0.18 US qt (0.15 Imp qt, 0.17 liter)	

97U8-0030E

## FUEL SYSTEM

Tank capacity	18.5 US gal (15.4 Imp gal, 70 liters)
---------------	---------------------------------------

97U8-0050E

## COOLING SYSTEM

Coolant capacity	Non-turbo	7.7 US qt (6.4 Imp qt, 7.3 liters)
	Turbo	9.2 US qt (7.7 Imp qt, 8.7 liters)

97U8-0055E

## ELECTRICAL SYSTEM

Battery	Maintenance free 12V 55D 23LMF, 65D 23LMF	
Alternator	12V — 80 amp	
Starter	Man. trans.	12V — 1.2 kw
	Auto. trans.	12V — 2.0 kw

97U8-0060E

## TRANSMISSION

Item	Type	Manual		Automatic
		Non-turbo	Turbo	
Gear ratio	1st	3.475	3.483	2.841
	2nd	2.002	2.015	1.541
	3rd	1.366	1.391	1.000
	4th	1.000	1.000	0.720
	5th	0.697, *0.756	0.719	—
	Rev.	3.493	3.288	2.400
Oil capacity	Manual	2.6 US qt (2.2 Imp qt, 2.5 liters)		
	Automatic	7.7 US qt (6.4 Imp qt, 7.3 liters)		

\*for GTUS grade models

97U8-0070E

**REAR AXLE**

Final gear ratio	Except convertible top models	Non-turbo models	Man. trans	4.100, *4.300
			Auto. trans	3.909
		Turbo models		4.100
	Convertible top models			4.100
Oil capacity	Non-turbo models (including convertible top models)			1.4 US qt (1.1 Imp qt, 1.3 liters)
	Turbo models			1.5 US qt (1.2 Imp qt, 1.4 liters)

\*for GTUS grade models

97U8-0080E

**STEERING**

Steering type	Rack and pinion
Min. turning radius	17.4 ft (5.3m)

97U8-0090E

**BRAKE (with power assist unit)**

Brake type	Front	Ventilated disc
	Rear	Solid disc
		Ventilated disc

67U8-0100E

**SUSPENSION**

Suspension type	Front	Independent, strut type with coil springs
	Rear	Independent, multi-link semi-trailing type with coil springs

97U8-0105E

**WEIGHTS**

Type		Non-Turbo models	Turbo models	Convertible top models
Item				
GVWR		3,655 lb (1,658 kg)	3,356 lb (1,520 kg)	3,485 lb (1,581 kg)
GAWR	Front	1,750 lb ( 794 kg)	1,750 lb ( 794 kg)	1,750 lb ( 794 kg)
	Rear	1,980 lb ( 898 kg)	1,980 lb ( 898 kg)	1,980 lb ( 898 kg)

GVWR: Gross Vehicle Weight Rating

GAWR: Gross Axle Weight Rating

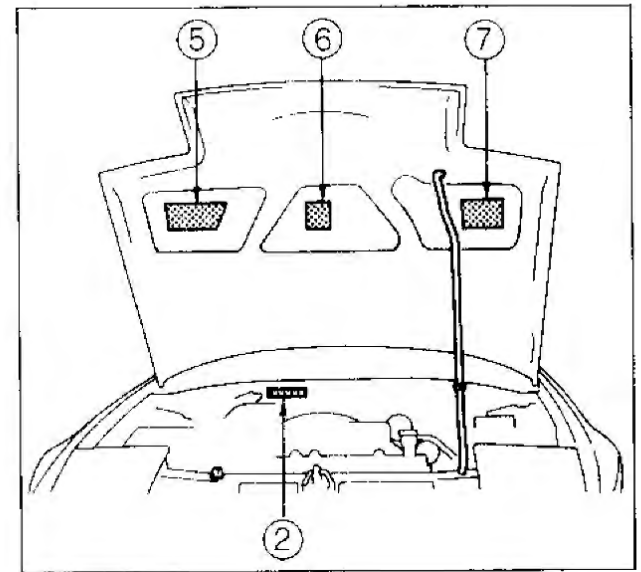
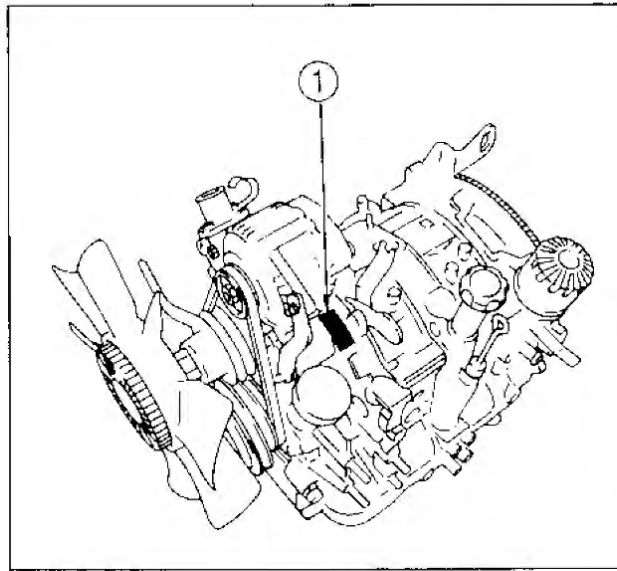
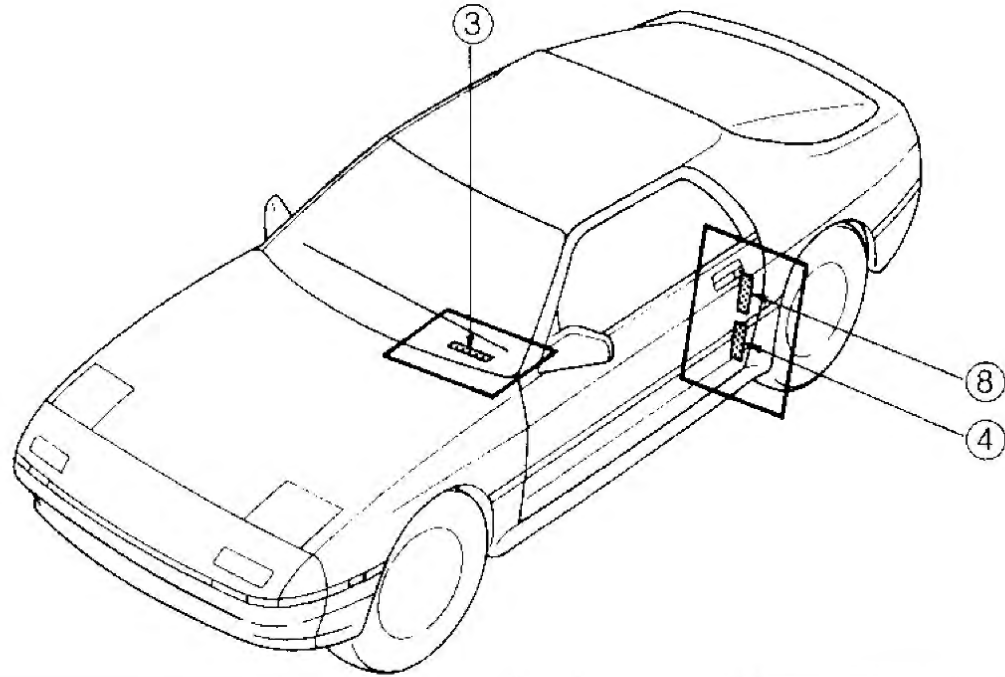
07U8-0108E

**AIR CONDITIONER**

Gas complies with SAE J639:	R-12
Maximum operating charge:	1 lb—10.5 oz (750g)
Manufacturer:	Mazda
Address:	Hiroshima, Japan

## VEHICLE IDENTIFICATION

1. ENGINE NUMBER
2. CHASSIS NUMBER
3. VEHICLE IDENTIFICATION PLATE
4. TIRE PRESSURE LABEL
5. VEHICLE EMISSION CONTROL INFORMATION LABEL
6. OIL LABEL
7. VACUUM HOSE ROUTING DIAGRAM LABEL (Only for California vehicles)
8. MOTOR VEHICLE SAFETY CERTIFICATION LABEL



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**Personal Information**

Name \_\_\_\_\_

Address \_\_\_\_\_

Telephone \_\_\_\_\_

Driver's License \_\_\_\_\_

Insurance Company \_\_\_\_\_

Insurance Policy Number \_\_\_\_\_

**Nearest Mazda Dealer**

Name \_\_\_\_\_

Address \_\_\_\_\_

Service Manager \_\_\_\_\_

Telephone \_\_\_\_\_

**Vehicle Information**

Type Designation \_\_\_\_\_

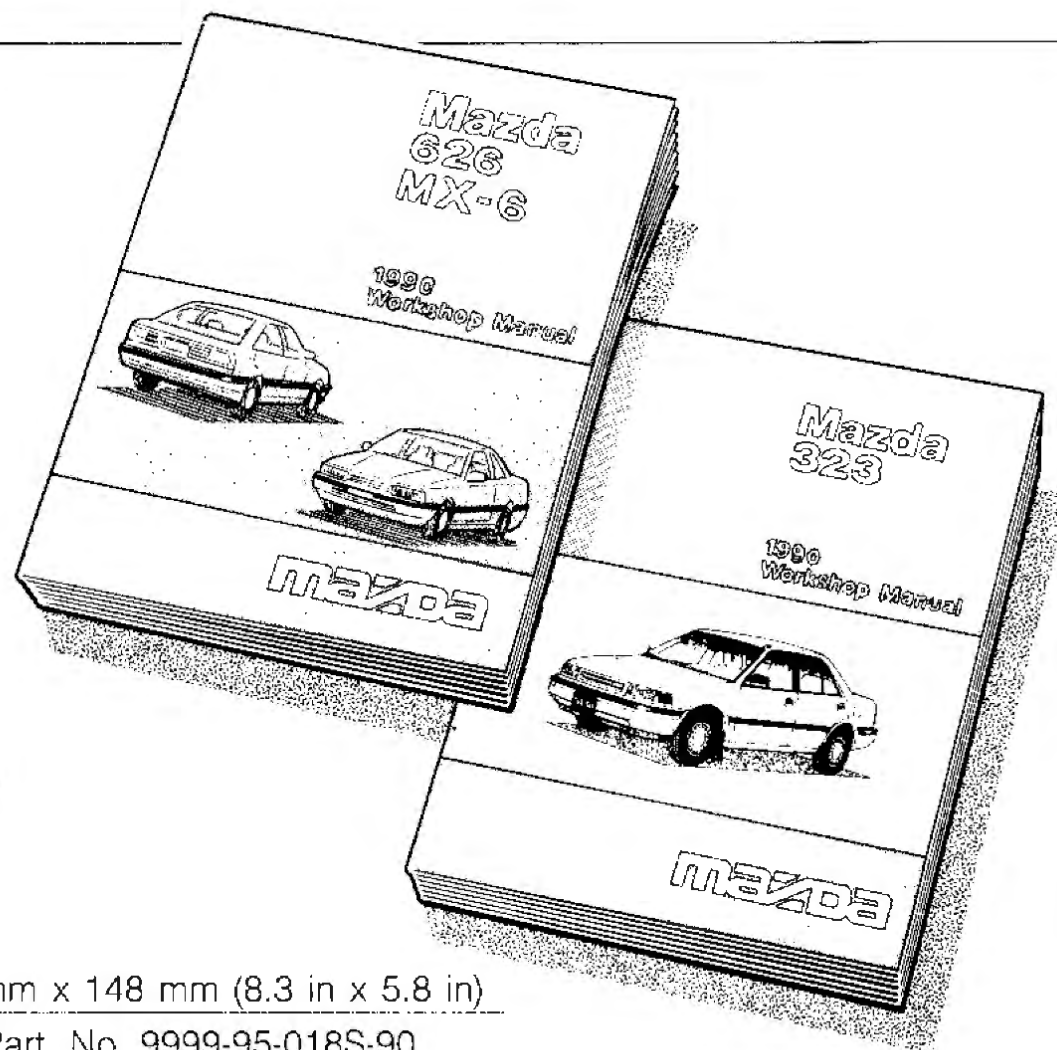
Chassis Number \_\_\_\_\_

Engine Number \_\_\_\_\_

Registration Number \_\_\_\_\_

Key Number \_\_\_\_\_

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and better understand  
your vehicle's maintenance  
and repair.**



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If not, have them order for you.

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'90 MX-5 Miata (English) Part. No. 9999-95-044B-90

'90 626/MX-6 (English) Part. No. 9999-95-019S-90

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**6 CLUTCH AND MANUAL**

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**ADJUSTMENT**



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**Adjustment**

**Caution**

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