

A Word to Mazda Owners

Thank you for choosing a Mazda. We at Mazda design and build vehicles with complete customer satisfaction in mind.

To help ensure enjoyable and trouble-free operation of your Mazda, read this manual carefully and follow its recommendations.

An Authorized Mazda Dealer knows your vehicle best. So when maintenance or service is necessary, that's the place to go.

Our nationwide network of Mazda professionals is dedicated to providing you with the best possible service.

We assure you that all of us at Mazda have an ongoing interest in your motoring pleasure and in your full satisfaction with your Mazda product.

Mazda Motor Corporation
HIROSHIMA, JAPAN

Important Notes About This Manual

Keep this manual in the glove box as a handy reference for the safe and enjoyable use of your Mazda. Should you resell the vehicle, leave this manual with it for the next owner.

Please be aware that this manual applies to all models, equipment and options. As a result, you may find some explanations for equipment not installed on your vehicle.

All specifications and descriptions 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 obligation.

Air Conditioning and the Environment

Your Mazda's genuine air conditioner is filled with R134a, a refrigerant that has been found not to damage the earth's ozone layer. If the air conditioner does not operate properly, consult an Authorized Mazda Dealer.

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How to Use This Manual

We want to help you get the most driving pleasure from your vehicle. Your owner's manual, when read from cover to cover, can do that in many ways.

Illustrations complement the words of the manual to best explain how to enjoy your Mazda. By reading your manual, you can find out about the features, important safety information, and driving under various road conditions.



The above symbol in this manual means "Do not do this" or "Do not let this happen."

Index: A good place to start is the Index, an alphabetical listing of all information in your manual.

Sections: This manual has eleven sections. Sections 1 through 10 begin with a brief list of contents, so you can usually tell at a glance if that section has the information you want.

You'll find several **WARNINGS**, **CAUTIONS**, and **NOTES** in the manual.

⚠ WARNING

A **WARNING** indicates a situation in which serious injury or death could result if the warning is ignored.

⚠ CAUTION

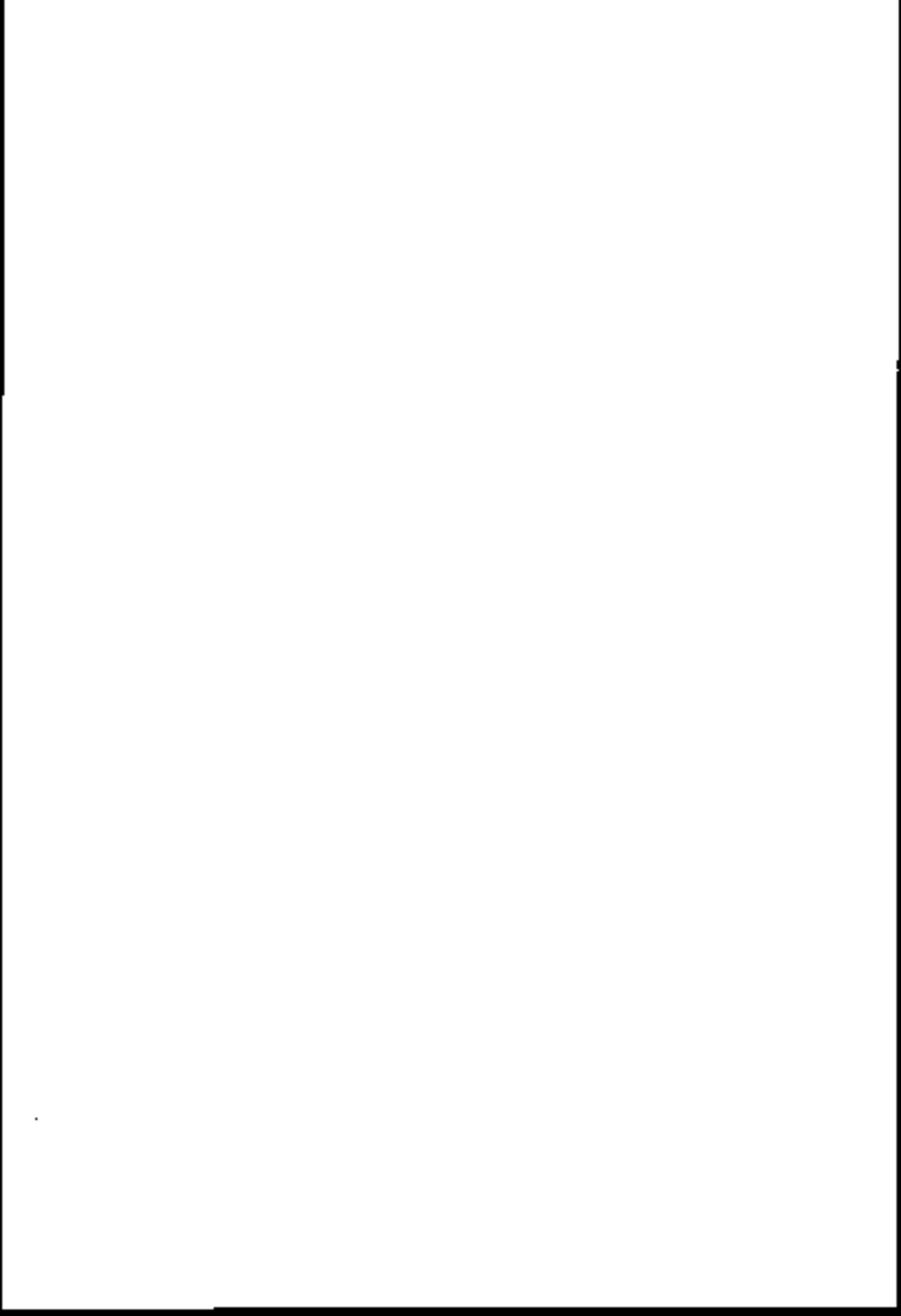
A **CAUTION** indicates a situation in which bodily injury or damage to your vehicle, or both, could result if the caution is ignored.

NOTE

A **NOTE** provides information and sometimes suggests how to make better use of your vehicle.

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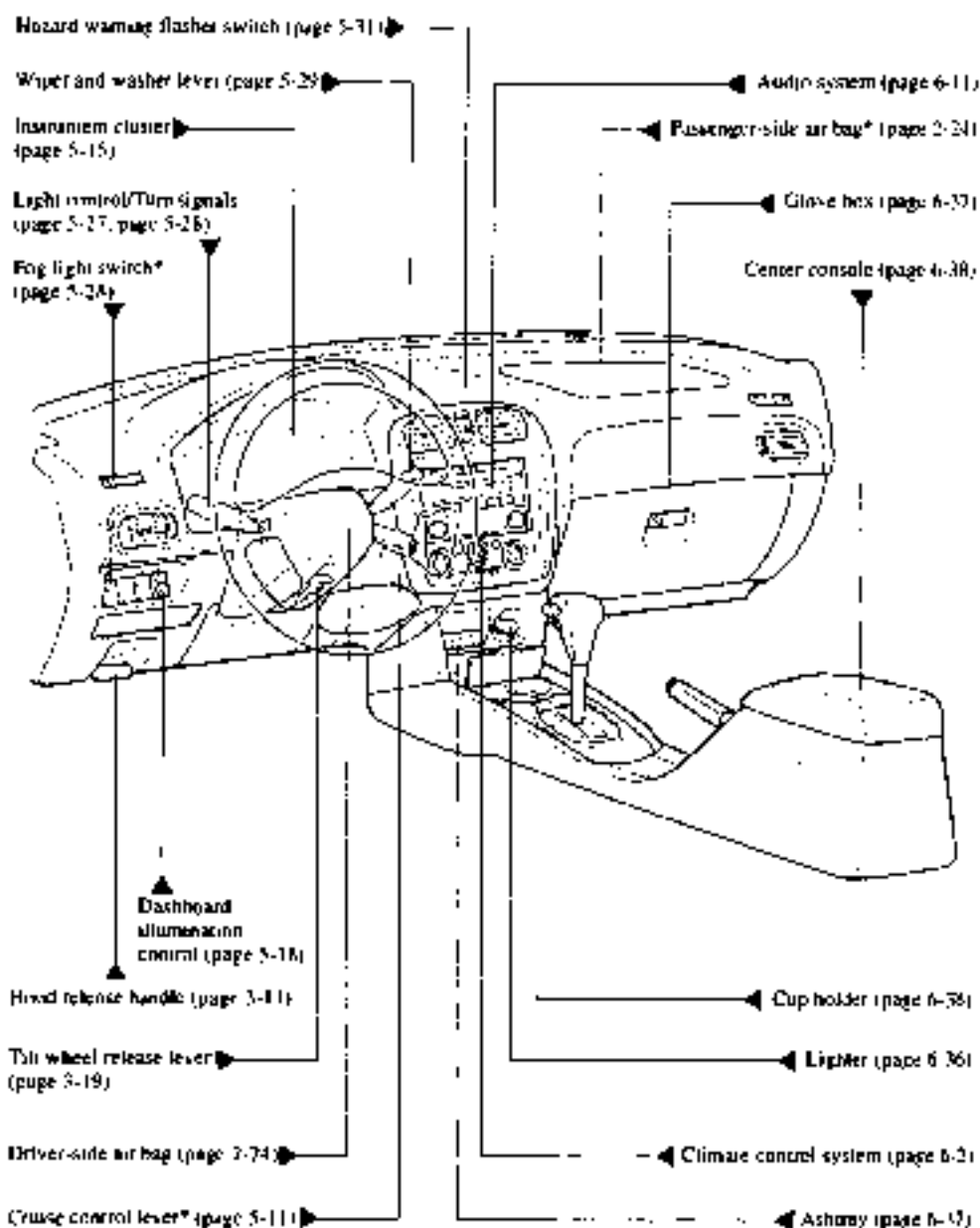
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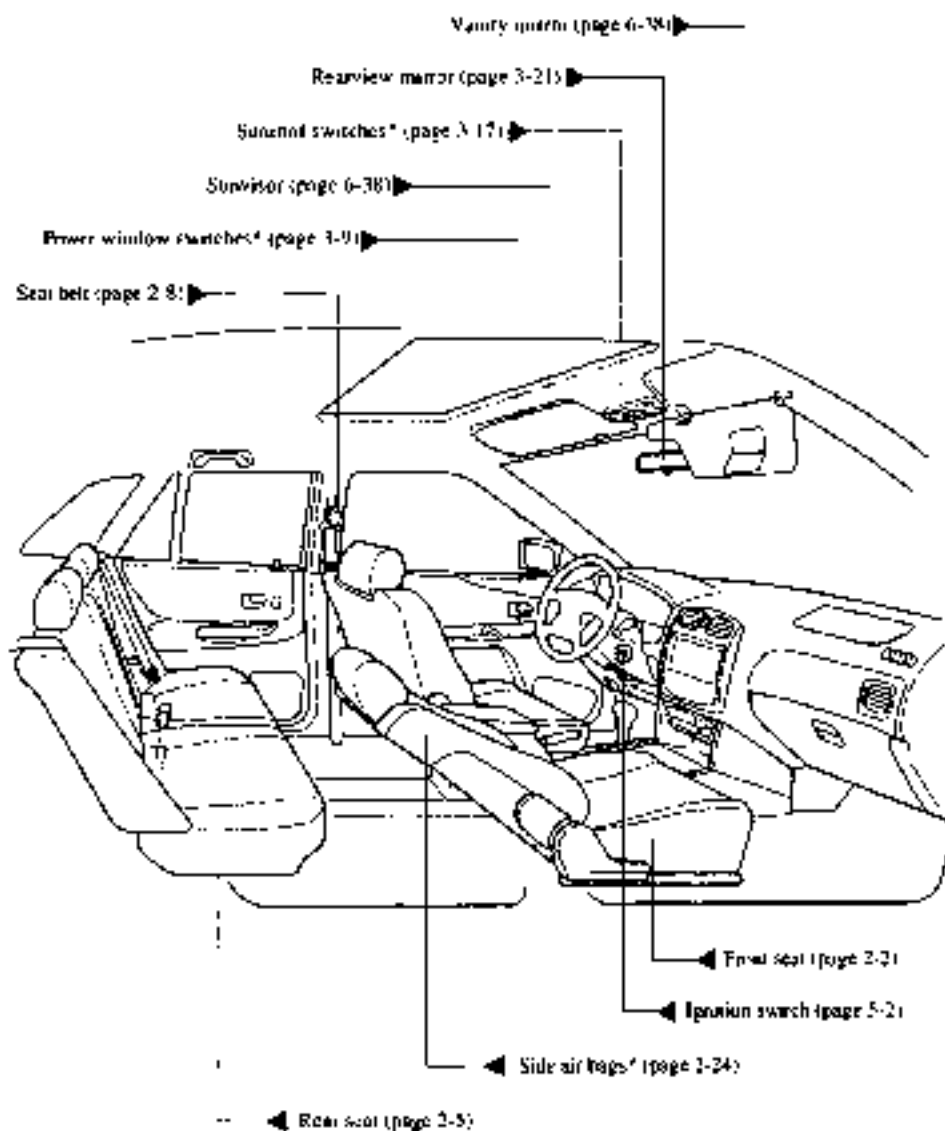
Your Vehicle at a Glance

Interior and exterior views and part identification of your Mazda.

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Dashboard Overview





Exterior Overview

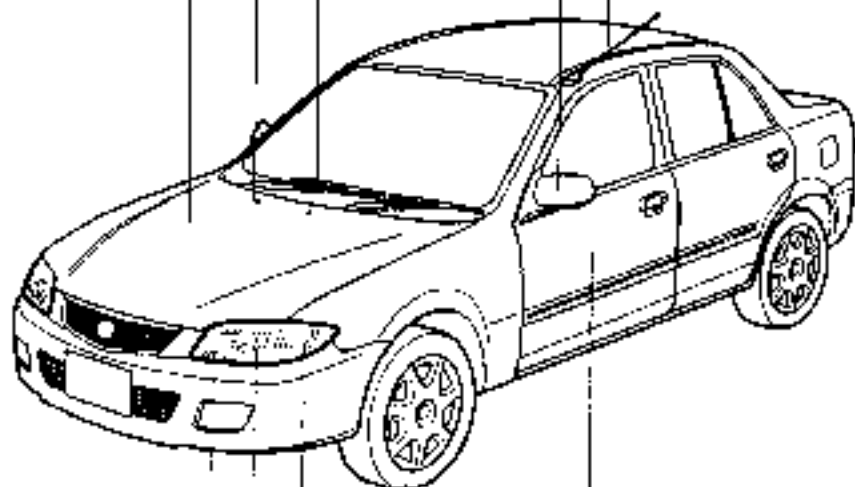
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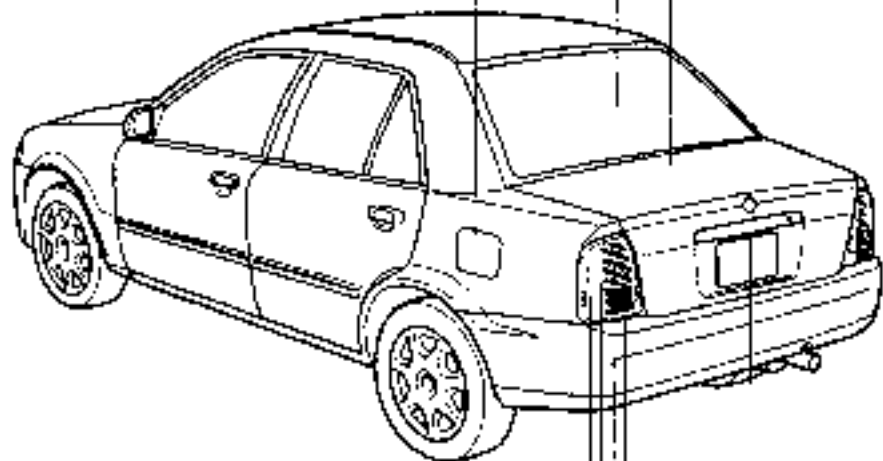
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Seats

Front Seats

⚠ WARNING

Securing the Seats:

Adjustable seats and seatbacks that are not securely latched are dangerous. In a sudden stop or collision, the seat or seatback could move, causing injury. Make sure the adjustable components of the seat are locked in place by attempting to slide the seat forward and backward and rocking the seatback.

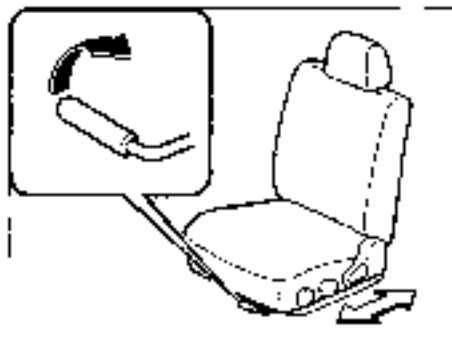
▼ Seat Slide

⚠ WARNING

Driver's Seat Adjustment:

Adjusting the driver's seat while the vehicle is moving is dangerous. The driver could lose control of the vehicle and have an accident. Adjust the driver's seat only when the vehicle is stopped.

To move a seat forward or backward, raise the lever and slide the seat to the desired position.

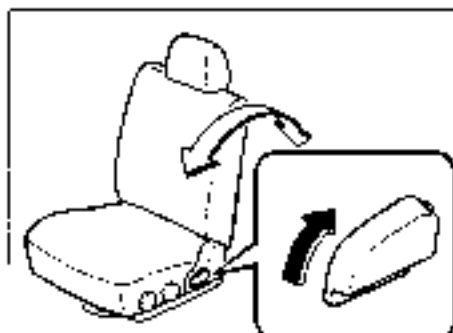


▼ Seat Recline

⚠ WARNING***Reclining:***

Sitting in a reclined position while the vehicle is moving is dangerous because you don't get the full protection from seat belts. During sudden braking or a collision, you can slide under the lap belt and suffer serious internal injuries. For maximum protection, sit well back and upright.

To change the seatback angle, lean forward slightly while raising the lever. Then lean back to the desired position and release the lever.



Make sure the lever returns to its original position and the seatback is locked in place by attempting to push it forward and backward.

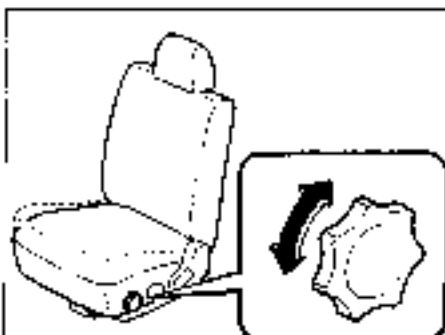
⚠ CAUTION

When returning a rear-reclined seatback to its upright position, make sure you support the seatback while operating the seatback lever. If the seatback is not supported, it will flip forward suddenly and could cause injury.

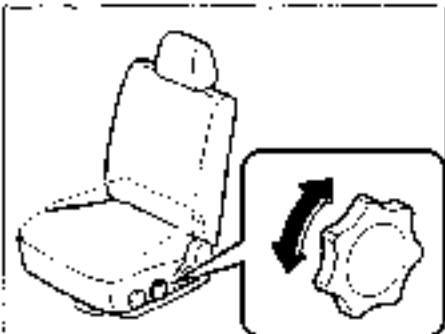
Seats

▼ Seat Tilt (Driver's Seat)*

The seat-bottom angle can be adjusted by rotating the dial. The front dial tilts the front of the seat bottom upward.



The seat-bottom angle can be adjusted by rotating the dial. The rear dial tilts the rear of the seat bottom upward.



▼ Head Restraint

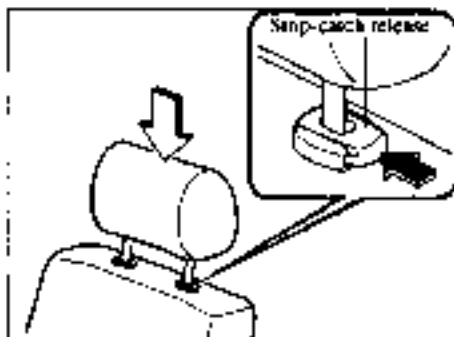
⚠ WARNING

Head Restraints Adjustment:
Driving with the head restraints adjusted too low or removed is dangerous. With no support behind your head, your neck could be seriously injured in a collision. Always drive with the head restraints inserted when seats are being used and make sure they are properly adjusted.

Height adjustment

To raise a head restraint, pull it up to the desired position.

To lower the head restraint, press the snap-catch release, then push the head restraint down.



Adjust the head restraint so that the top parallels the top of the passenger's ears, never the passenger's neck.

Rear Seat

⚠ WARNING

Stacking Cargo:

Stacking luggage or other cargo higher than the seatbacks or putting things on the rear package tray is dangerous. During sudden braking or a collision, objects can become projectiles that may hit and injure passengers. Don't stack things higher than the seatbacks or put things on the rear package tray.

⚠ WARNING

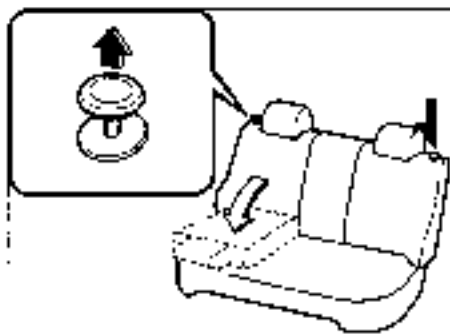
Securing Seats:

Adjustable seats and seatbacks that are not securely latched are dangerous. In a sudden stop or collision, the seat or seatback could move, causing injury. Make sure the adjustable components of the seat are locked in place by attempting to slide the seat forward and backward and rocking the seatback.

▼ Split-Folding Rear Seatback

To provide more space in the trunk:

1. Unfasten the lap portion of the rear-center seat belt (page 2-14)
2. Pull the lock release up and fold the seatback forward.



⚠ CAUTION

Don't let the seat belt or buckle get caught between the seatbottom and seatback when folding the seat. The seatbelt and buckle could be damaged.

NOTE

- Unlock the seatback before you fold it forward (page 2-7).
- When folding the rear-right seatback, the rear-center seat belt doesn't have to be fastened.

Seats

To return the seatbacks to their original positions:

3. Lift the seatback and push it firmly into place.
4. Fasten the lap portion of the rear-center seat belt (page 2-14)

⚠ CAUTION

Don't let the rear-center seat belt tongues or buckles get caught between the seatback and the rear package tray.

NOTE

When you return the seatbacks to their original positions:

- Make sure the seatbacks are securely latched by rocking the seatback.
- Make sure the rear seat belts can be pulled out of the retractors. If a belt is locked, firmly pull and release it, then slowly pull it out again.

⚠ WARNING

Unlocked Seatback:

A seatback plays an important role in your protection in a vehicle. Leaving the seatback unlocked is dangerous as it can allow passengers to be ejected or thrown around and baggage to strike occupants in a sudden stop or collision, resulting in severe injury. After returning the seat at any time, even when there are no other passengers, rock the seatback to make sure it is locked in place.

⚠ WARNING

Passenger on the Folded Seatback:

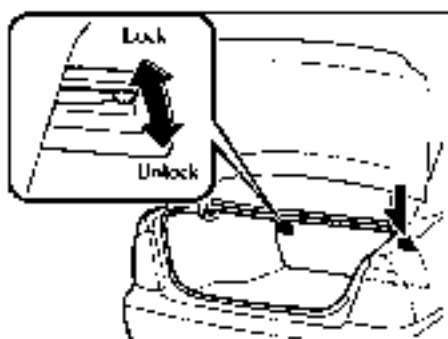
Driving with a passenger on the folded seatback is dangerous. Allowing a child to sit up on the folded seatback while the vehicle is moving is particularly dangerous. In a sudden stop or even a minor collision, a child not in a proper seat or child-restraint system and seat belt could be thrown forward, back or even out of the car resulting in serious injuries or death. The child or other objects in the baggage area could be thrown into other occupants and cause serious injury. Never allow a passenger to sit or stand on the folded seatback while the vehicle is moving.

⚠ WARNING

Children and the Folding Rear Seats: Playing with the folding rear seats is dangerous. The folding rear seatbacks cannot be folded down from inside the luggage compartment. Do not give the car keys to children and do not allow them to play in the vehicle.

▼ Rear Seatback Lock

To lock or unlock a seatback, move the lever.

**NOTE**

The seatback locks are part of the trunk security system (page 3-12).

Seat Belt Systems

Seat Belt Precautions

Seat belts help to decrease the possibility of severe injury during accidents and sudden stops. Mazda recommends that the driver and all passengers always wear seat belts.

All of the seat belt retractors are designed to keep the lap/shoulder belts out of the way when not in use.

The driver's seat belt has no provisions for child-restraint systems and has only an emergency locking mode. The driver may wear it comfortably, and it will lock during a collision.

However, the front passenger's seat and rear lap/shoulder belt retractors operate in two modes: emergency locking mode and for child-restraint systems, automatic locking mode.

▼ Pregnant Women and Persons with Serious Medical Conditions

Pregnant women should wear seat belts. Ask your doctor for specific recommendations. The lap belt should be worn **SNUGLY AND AS LOW AS POSSIBLE OVER THE HIPS**. Persons with serious medical conditions also should wear seat belts. Check with your doctor for any special instructions regarding specific medical conditions.

▼ Emergency Locking Mode

If the belt has fully retracted, it will always be in the emergency locking mode until you move it into automatic locking mode by pulling the belt all the way out to its full length. In the emergency locking mode, the belt remains comfortable on the occupant and the retractor will lock in position during a collision.

If the belt feels tight and hinders comfortable movement while the vehicle is stopped or in motion, you may be in the automatic locking mode because you have pulled the belt too far out. To return to the more comfortable emergency locking mode, wait until you can stop the vehicle in a safe area, retract the belt fully to convert it back to emergency locking mode and then again extend it around you.

▼ Automatic Locking Mode

Always use the automatic locking mode to keep the child-restraint system from shifting to an unsafe position in the event of an accident. To get the seat belt into the automatic locking mode, pull it all the way out and connect it as instructed on the child-restraint system. It will retract down to the child-restraint system and stay locked on it. See the section on child restraint (page 2-20).

⚠ WARNING

Not Wearing Seat Belts:

Not wearing a seat belt is extremely dangerous. During a collision, occupants not wearing seat belts could hit someone or things inside the vehicle or even be thrown out of the vehicle. They could be seriously injured or even killed. In the same collision, occupants wearing seat belts would be much safer. Always wear your seat belt and make sure all occupants are properly restrained.

Seat Belt Damaged During an Accident:

Using a damaged seat belt is dangerous. An accident could damage the belt webbing in use. A damaged seat belt cannot provide adequate protection in a collision. Have an Authorized Mazda Dealer inspect all seat belt systems in use during an accident before they are used again.

Twisted Seat Belts:

Twisted seat belts are dangerous. In a collision, the full width of the belt isn't available to absorb the impact. This puts more force on the bones beneath the belt, which could break them or cause other serious injury or death. Don't wear twisted seatbelts.

One Belt, One Passenger:

Using one seat belt for more than one person at a time is dangerous. A seat belt used in this way can't spread the impact forces properly and the two passengers could be crushed together and seriously injured or even killed. Never use one belt for more than one person at a time.

Seat Belt Systems

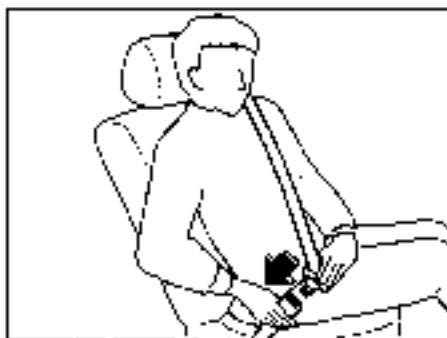
3-Point Type

▼ Fastening the Seat Belts

1. Grasp the buckle and tongue.
2. Slowly pull out the lap/shoulder belt



3. Insert the tongue into the buckle until you hear a click.

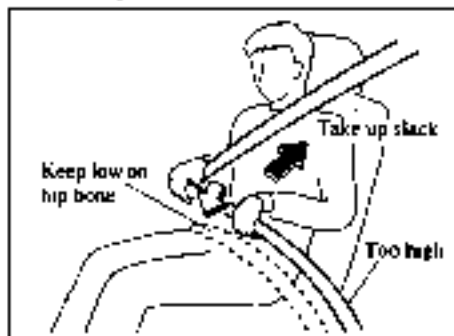


⚠ WARNING

Positioning the Shoulder Portion of the Seat Belt:

Improper positioning of the shoulder portion of the seat belt is dangerous. An improperly positioned belt will provide little or no protection in a collision. Always make sure the shoulder portion of the seat belt is positioned across your shoulder and near your neck, but never under your arm, on your neck, or on your upper arm.

4. Make sure the shoulder belt is snugly fitted against your body.

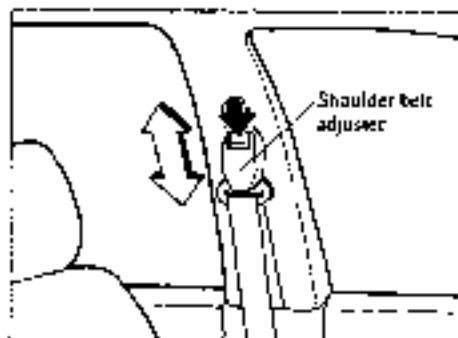


⚠ WARNING

Positioning the Lap Portion of the Seat Belt:

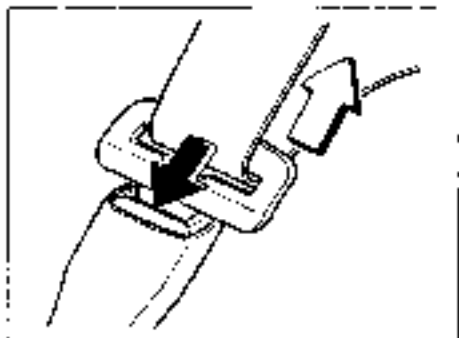
The lap portion of the seat belt worn too high is dangerous. In a collision, this would concentrate the impact force directly on the abdominal area, causing serious injury. Wear the lap portion of the belt snugly and as low as possible.

This adjusts the shoulder belt angle for a more comfortable fit. Simply push the button, move it to the desired position, and then release it. Make sure the adjuster is locked.



▼ Unfastening the Seat Belts

Depress the button on the buckle.



NOTE

If a belt does not fully retract, inspect it for kinks and twists

Front Seat Belt Pretensioner and Load Limiting Systems

For optimum protection, the driver and front passenger seat belts are equipped with pretensioner and load limiting systems.

In moderate or greater frontal or near-frontal accidents, the front air bag and pretensioner systems deploy simultaneously. The pretensioners take up slack in the front seat belts as the air bags are expanding. The load limiting system releases belt webbing in a controlled manner to reduce belt force on the occupant's chest.

Seat Belt Systems

⚠ WARNING

Incorrect Positioning of the Driver and Front Passenger Seat Belts: *Incorrect positioning of the driver and front passenger seat belts is dangerous. Without proper positioning, the front pretensioner and load limiting systems cannot provide adequate protection in an accident and this could result in serious injury. Wear seat belts only as recommended in this owner's manual.*

Modification or Testing of the Pretensioner System:

Modifying the components or wiring of the pretensioner system, including the use of electronic testing devices is dangerous. You could accidentally activate it or make it inoperable which would prevent it from activating in an accident. Front occupants could be seriously injured. Never modify the components or wiring, or use electronic testing devices on the pretensioner system.

Pretensioner System Disposal:

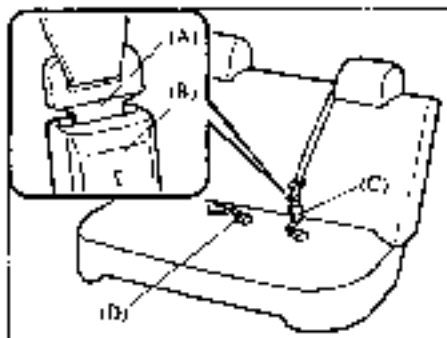
Improper disposal of the pretensioner system or a vehicle with nondeactivated pretensioners is dangerous. Unless all safety procedures are followed, injury could result. Ask an Authorized Mazda Dealer how to safely dispose of the pretensioner system or how to scrap a front pretensioner-equipped vehicle.

NOTE

- The pretensioner system will only activate in a moderate or greater frontal or near-frontal collision. It will not activate in side or rear impacts.
- Some smoke (non-toxic gas) will be released when the air bags and pretensioners deploy. This does not indicate a fire. This gas normally has no effect on occupants, however, those with sensitive skin may experience light skin irritation. If residue from the deployment of the air bags or the front pretensioner system gets on the skin or in the eyes, wash it off as soon as possible.
- The seat belt pretensioners will only function once. After they are expended, they will not work again and must be replaced immediately, even if there was no front seat occupant seated at the time.

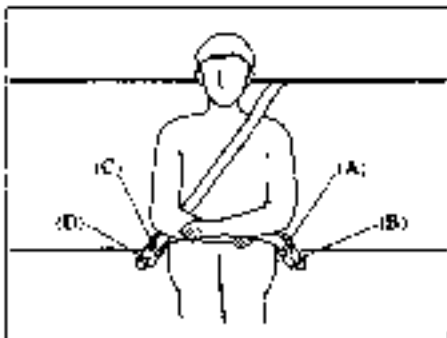
Rear-Center Position Lap/ Shoulder Belt

Before using the rear-center lap/shoulder belt make sure tongue (A) and anchor buckle (B) are fastened.



▼ Fastening the Seat Belt

1. Grasp the buckle (D) and tongue (C).
2. Slowly pull out the lap/shoulder belt.
3. Insert the tongue (C) into the buckle (D) until you hear a click.



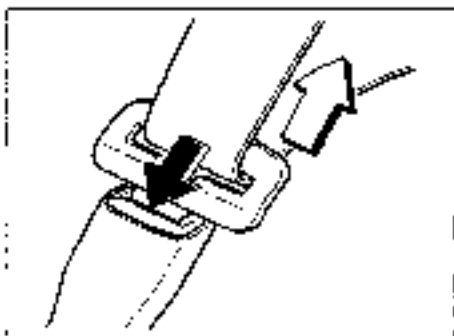
⚠ WARNING

Fastening the Rear-Center Seat Belt Only with one Buckle:

Fastening the rear-center seat belt only with one buckle is dangerous. If only one pair of seat belt tongue and buckle, either tongue (A) and anchor buckle (B) or tongue (C) and anchor buckle (D), is fastened, the seat belt cannot provide full protection. In a sudden stop or collision, the user could slide under the belt and suffer serious injuries. Always make sure that both pairs of seat belt tongues and buckles are fastened properly.

▼ Unfasten the Seat Belt

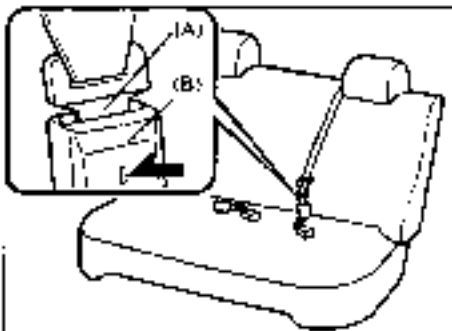
Depress the button on the buckle.



Essential Safety Equipment
Seat Belt Systems

▼ **Unfastening the Lap Portion of the Seat Belt**

Insert a small object in the anchor buckle (B) slot, such as a key.



NOTE

Always unfasten the lap portion of the belt before folding the rear-left seatback. Leaving the lap portion of the belt fastened could cause damage to the seatback.

▼ **Fastening the Lap Portion of the Seat Belt**

Grasp tongue (A) and insert it into the anchor buckle (B) until you hear a click. It is now secure for passenger use.

NOTE

After returning the rear-left seatback to its upright position, fasten the lap portion of the belt.

Seat Belt Extender

If your seat belt is not long enough, even when fully extended, a seat belt extender may be available to you at no charge from your Authorized Mazda Dealer.

This extender will be only for you and for the particular vehicle and seat. Even if it plugs into other seat belts, it may not hold in the critical moment of a crash.

When ordering an extender, only order one that provides the necessary additional length to fasten the seat belt properly. Please contact your Authorized Mazda Dealer for more information.

⚠ WARNING

Unnecessary Use of an Extender:

Using a seat belt extender when not necessary is dangerous. The seat belt will be too long and not fit properly. In an accident, the seat belt will not provide adequate protection and you could be seriously injured. Only use the extender when it is required to fasten the seat belt properly.

Using an Improper Extender:

Using a seat belt extender that is for another person or a different vehicle or seat is dangerous. The seat belt will not provide adequate protection and the user could be seriously injured in an accident. Only use the extender provided for you and for the particular vehicle and seat. NEVER use the extender in a different vehicle or seat.

Using an Extender That is Too Long:

Using an extender that is too long is dangerous. The seat belt will not fit properly. In an accident, the seat belt will not provide adequate protection and you could be seriously injured. Don't use the extender or choose one shorter in length if the distance between the extender's buckle and the center of the user's body is less than 6 inches.

Seat Belt Systems

Seat Belt Warning Light/ Beep

If the driver's seat belt is not fastened when the ignition switch is turned to the ON position, a beep will sound for about 6 seconds and the seat belt warning light will remain on until the belt is fastened.



If the system does not operate correctly, consult an Authorized Mazda Dealer.

Child Restraint Precautions

Mazda strongly urges the use of child-restraint systems for children small enough to use them.

Whenever child-restraint system you consider, please pick the appropriate one for the age and size of the child, obey state law and follow the instructions that come with the individual child-restraint system.

Statistics confirm that the rear seat is the best place for all children up to 12 years of age—the more so with a supplemental restraint system (air bags).

A rear-facing child-restraint system should never be used in the front seat because it would be too close to the air bag. The front passenger's seat is also the least preferred seat for other child-restraint systems.

▼ Small children

You are required by law to use a child-restraint system for children in the U.S. and Canada. Small children, generally those who are four years old or younger and who weigh under 18 kg (40 lb), riding in your vehicle must be protected by child-restraint systems made especially for children. Check your local and state or provincial laws for specific requirements regarding the safety of children riding in your vehicle.

▼ Older children

A child who has outgrown child-restraint systems should sit in the rear and use seat belts, both lap and shoulder. If the shoulder belt crosses the neck or face, move the child closer to the center.

Child-Restraint Systems

⚠ WARNING

Proper Size of Child-Restraint System:

For effective protection in vehicle accidents and sudden stops, a child must be properly restrained using a seat belt or child-restraint system depending on age and size. If not, the child could be seriously injured or even killed in an accident.

Follow the Manufacturer's Instructions and Always Keep the Child-Restraint System Buckled Down:

An unsecured child-restraint system is dangerous. In a sudden stop or a collision it could move causing serious injury or death to the child or other occupants. Make sure the child-restraint system is properly secured in place according to the manufacturer's instructions. When no longer in use, remove it from the vehicle or fasten it with a seat belt.

Holding a Child While the Vehicle is Moving:

Holding a child in your arms while the vehicle is moving is extremely dangerous. No matter how strong the person may be, he or she cannot hold onto a child in a sudden stop or collision and it could result in serious injury or death to the child or other occupants. Always secure a child in a proper child-restraint system.



Rear-Facing Child-Restraint System:

Rear-facing child-restraint systems on the front seat are particularly dangerous. The child-restraint system can be hit by a deploying air bag and moved violently backward resulting in serious injury or death to the child. Never use a rear-facing child-restraint system in the front seat with an air bag that could deploy.

Deploying
air bag



⚠ WARNING**Passenger's Seat Position:**

If your vehicle is equipped with a passenger air bag, a front-facing child-restraint system could be put on the seat only when it is unavoidable. Always move the seat as far back as possible, because the force of a deploying air bag could cause serious injury or death to the child.

Seating Position with Side Air Bag:

Allowing a child to lean over or against the front door is dangerous.

If the vehicle is equipped with side air bags, the impact of an inflating side air bag could cause serious injury or death to the child. Children are more likely to sleep in the vehicle, when they do, they are more at risk in the front passenger's seat that has a side air bag because they may slump over into the path of the seatback mounted airbag. If a child can't be seated in the rear, do not allow the child to lean over or against the front door, even if the child is seated in a child-restraint system.

Unsecured Child-Restraint System:

A child-restraint system that is not securely fastened down is dangerous.

In a sudden stop or collision, it can become a projectile and hit someone, causing serious injury. When not in use, remove it from the vehicle, put it in the luggage compartment or at least secure it with a seat belt.

One Belt, One Passenger:

Using one seat belt for more than one person at a time is dangerous. A seat belt used in this way can't spread the impact forces properly and the two passengers could be crushed together and seriously injured or even killed. Never use one belt for more than one person at a time.

⚠ CAUTION

A seat belt or child-restraint system can become very hot in a closed vehicle during warm weather. To avoid hurting yourself or a child, inspect either before using.

Child-Restraint Systems

Installing Child-Restraint Systems

Accident statistics reveal that a child is safer in the rear seat. The front passenger's seat is clearly the worst choice for any child under 12, and with rear-facing child-restraint systems it is clearly unsafe due to air bags.

Some child-restraint systems now come with tethers and therefore must be installed on the seats that take tethers to be effective. In your Mazda, tethered child-restraint systems can only be accommodated in the three positions on the rear seat.

⚠ WARNING

Tethered Child-Restraint Systems Work Only on Rear Seat:
Installation of a tether equipped child-restraint system in the front passenger's seat defeats the safety design of the system and will result in an increased chance of serious injury if the seat goes forward without benefit of being tethered. Place tether equipped child-restraint systems where there are tether anchors.

▼ Rear Seat Child-Restraint System Installation

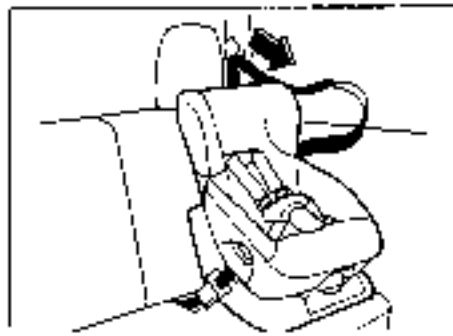
Follow these instructions when using a child-restraint system:

1. Secure the child-restraint system with the lap portion of the lap/shoulder belt. See the instructions on the child-restraint system for belt routing instructions.



Child-Restraint Systems

2. To get the retractor into the automatic locking mode, pull the shoulder belt portion of the seat belt until the entire length of the belt is out of the retractor.



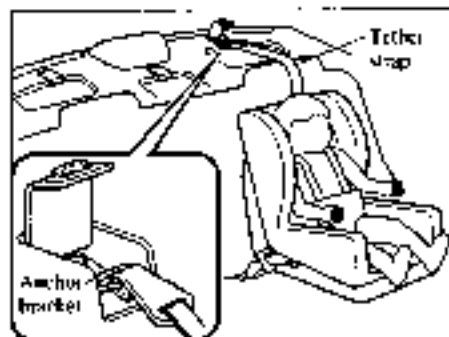
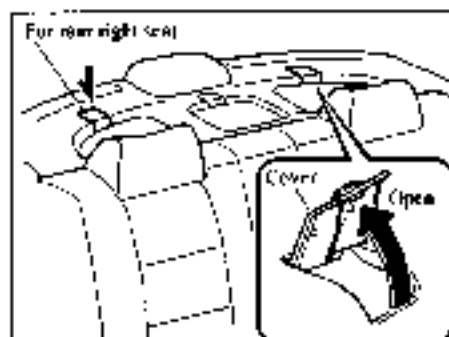
3. Push the child-restraint system firmly into the vehicle seat. Be sure the belt retracts as snugly as possible. Clicking from the retractor will be heard during retraction if the system is in the automatic locking mode. If the belt does not lock the seat down tight, repeat this step.



NOTE

Inspect this function before each use of the child-restraint system. You should not be able to pull the shoulder belt out of the retractor while the system is in the automatic locking mode. When you remove the child-restraint system, be sure the belt fully retracts to return the system to emergency locking mode before occupants use the seat belts.

4. If your child-restraint system requires the use of a tether strap, hook the tether strap by following the manufacturer's instructions.



Child-Restraint Systems

▼ If You Must Use the Front Seat for Children

If you cannot put all children in the rear seat, at least put the smallest in the rear seat and be sure the largest child up front uses the shoulder belt over the shoulder. Do not put rear-facing child-restraint systems on the front passenger's seat. This seat is also not set up for tethered child-restraint systems, put them in one of the three rear seat positions set up with tether anchors.

Don't allow anyone to sleep against the right front door if you have an optional side air bag; it could cause serious injuries to anyone of position occupant. As children more often sleep in cars, it is better to put them in the rear seat. If installing the child-restraint system on the front seat is unavoidable, follow these instructions when using a front-facing child-restraint system in the front passenger's seat.

NOTE

Check if your Mazda front seats have side air bags—every Mazda side air bag will have a "SRS-Air Bag" label on the outboard shoulder of the front seats.

⚠ WARNING

Rear-Facing Child-Restraint System:
Rear-facing child-restraint systems on the front seat are particularly dangerous. The child-restraint system can be hit by a deploying air bag and moved violently backward resulting in serious injury or death to the child. Never use a rear-facing child-restraint system in the front seat with an air bag that could deploy.



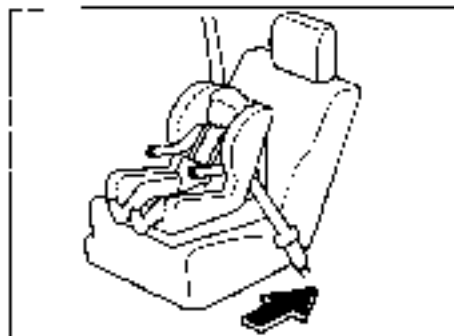
Child-Restraint Systems

Front passenger's seat child-restraint system installation (Lap/shoulder belt)

⚠ WARNING

Front Passenger's Seat Position:
As your vehicle has front air bags and doubly so because your vehicle has side air bags, a front-facing child-restraint system should be put on the front seat only when it is unavoidable. Always move the seat as far back as possible, because the force of a deploying air bag could cause serious injury or death to the child.

1. Slide the seat as far back as possible.



2. Secure the child-restraint system with the lap portion of the lap/shoulder belt. See the instructions on the child-restraint system for belt routing instructions.
3. To get the retractor into the automatic locking mode, pull the shoulder belt portion of the seat belt until the entire length of the belt is out of the retractor. Push the child-restraint system firmly into the vehicle seat.
4. Be sure the belt retracts as snugly as possible. Clicking from the retractor will be heard during retraction if the system is in automatic locking mode. If the belt does not lock the seat down tight, repeat this step.

NOTE

Inspect this function before each use of the child-restraint system. You should not be able to pull the shoulder belt out of the retractor while the system is in the automatic locking mode. When you remove the child-restraint system, be sure the belt fully retracts to return the system to emergency locking mode before occupants use the seat belts.

SRS Air Bags

Supplemental Restraint Systems Precautions

The front and side supplemental restraint systems (SRS) include 4 air bags. They are located in:

- The steering wheel
- The passenger side dashboard*
- The outboard sides of the front seatbacks*

These systems operate independently depending on the type of accident encountered; both side air bags are not likely to deploy in the same accident because a vehicle is not often hit from both sides. The front and side air bag systems will not normally deploy during the same type of accident unless a combination of frontal and side impacts occur.

In a front-end or side impact, the air bag systems (supplemental restraint systems) are designed to provide only supplemental protection for the driver and front seat passenger. Seat belts must still be worn.

Without seat belt usage, the air bags cannot provide adequate protection during an accident. Seat belt usage is necessary to:

- Keep the passenger away from an inflating air bag
- Reduce the possibility of injuries during an accident that is not designed for air bag inflation, such as roll-over or rear impact.
- Reduce the possibility of injuries in frontal or side collisions that are not severe enough to activate the air bags.
- Reduce the possibility of being thrown from your vehicle
- Reduce the possibility of injuries to lower body and legs during an accident because the air bags allows no protection to these parts.
- Hold the driver in a position which allows better control of the vehicle.

Small children, those under 18 kg (40 lb), should be protected by a child-restraint system (page 2-17).

⚠ WARNING**Air Bags without Seat Belts:**

Depending only on the air bags for protection during an accident is dangerous. Alone, air bags may not prevent serious injuries. The appropriate air bags can be expected to inflate only during a frontal, side or near-frontal collision of at least moderate force. Vehicle occupants should always wear seat belts.

Child in the Front Seat:

Placing a child, 12 years or under, in the front seat is dangerous. The child could be hit by a deploying air bag and be seriously injured or even killed. A sleeping child is more likely to lean against the door and be hit by the side air bag in a moderate, right-side collision. Whenever possible, always secure a child 12 years and under on the rear seat with an appropriate child-restraint system for the child's age and size.

Child-Restraint System Positioning:

Rear-facing child-restraint systems on the front seat are particularly dangerous. The child-restraint system can be hit by a deploying air bag and moved violently backward resulting in serious injury or death to the child. Never use a rear-facing child-restraint system in the front seat with an air bag that could deploy.

Deploying
air bag.

**Seating Position with Front Air Bags:**

Sitting too close to the air bag storage compartments or placing hands or feet on them is extremely dangerous. Front air bags inflate with great force and speed. Serious injuries could occur if someone is too close. The driver should always hold onto only the rim of the steering wheel. The front seat passenger should keep both feet on the floor. Front seat occupants should adjust their seats as far back as possible and always sit upright against the seatbacks with seat belts worn properly.

SRS Air Bags

WARNING

Seating Position with Side Air Bags:

Sitting too close to the side air bag storage compartments or placing hands on them is extremely dangerous. A side air bag inflates with great force and speed directly out of the outboard shoulder of the front seat and expands along the front door on the side the car is hit.

Serious injury could occur if someone is sitting too close to the door or leaning against a window in the front seats or if rear seat occupants grab the sides of the front seatbacks. Furthermore, sleeping up against the door or hanging out the driver's-side window while driving could block the side air bag and eliminate the advantages of supplemental protection. Give the side air bags room to work by sitting in the center of the seat while the vehicle is moving with seat belts worn properly.

Front Air Bag Storage Areas:

Attaching an object to a front air bag storage area or placing something in front of it is dangerous. In an accident, the object could interfere with front air bag inflation and injure the occupants.

Always keep the front air bag storage areas free of objects.

Side Air Bag Storage Areas:

Attaching things to the seat in such a way as to cover the outboard side of the seat in any way is dangerous. In an accident the object could interfere with the side air bag, which inflates from the outboard side of the front seats, impeding the added protection of the side air bag system or redirecting the air bag in a way that is dangerous. Furthermore, the bag could be cut open spewing exhaust.

Do not hang net bags, map pouches or back pads with side straps on the front seats. Always keep the side air bag storage areas in your front seats free to deploy in the event of a side collision.

Using Seat Covers:

Using a seat cover on the front seats is dangerous. In a severe side collision, the seat covers could interfere with the side air bag inflation and serious injuries could result. Never use seat covers on the front seats.

NOTE

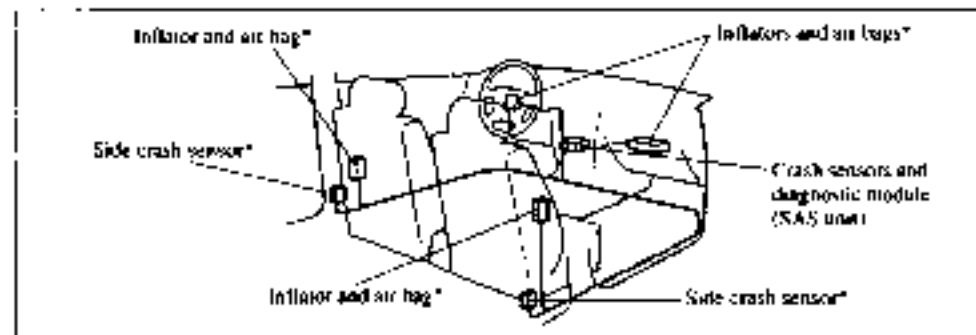
Should you sell your Mazda, we urge you to tell the new owner of its air bag systems and that familiarization with all instructions about them, from the Owner's Manual, is important.

Air Bag System Description

The supplemental restraint systems (SRS) have two basic subsystems:

- The air bag system with inflators and air bags.
- The electric system with crash sensors and diagnostic module.

The air bags are mounted in the following locations: the center of the steering wheel, the passenger side of the dashboard, and in the outboard sides of the front seatbacks. They are out of sight until activated.



▼ How the Air Bags Work

When air bag crash sensors detect a frontal or side impact of greater than moderate force, an electrical current is sent to the inflators. Nitrogen and argon gases are produced to inflate the air bags. After the inflation, the air bags quickly deflate.

The air bags will function only once. After that, the air bags will not work again and must be replaced.

- Only an Authorized Mazda Dealer can replace the systems.



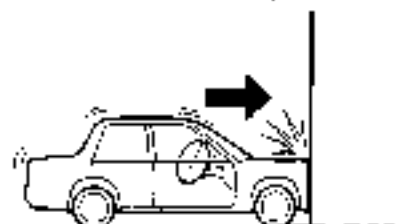
SRS Air Bags

▼ Air Bag Activation/Deactivation

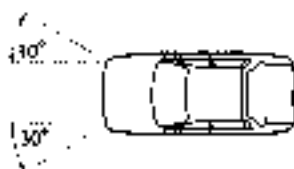
Front air bag activation

A greater than moderate impact will cause the front air bags to inflate in the following cases:

Hitting a solid wall straight on at greater than about 22 km/h (14 mph).



Frontal impact within about a 30 degree range from head on to the vehicle



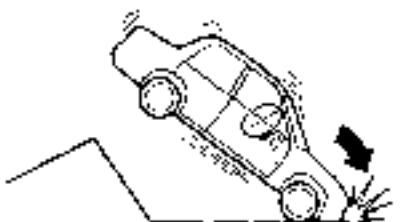
Hitting a curb, pavement edge or hard object.



Driving into a big hole or hitting the far side of a hole.



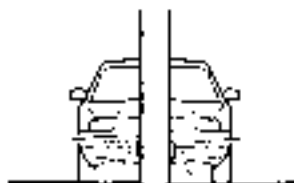
Landing hard or the vehicle falling.



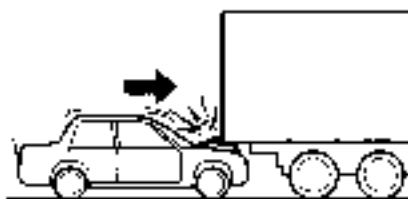
Limitations to Front Air Bag**Activation**

Depending on the severity of impact, the front air bags may not inflate in the following cases:

Impacts involving trees or poles cause severe cosmetic damage but may not have enough impact to activate the air bag.



Rear-ending or running under a truck's rail gate may not provide the stopping force necessary for air bag deployment.



Frontal offset impact to the vehicle may not provide the stopping force necessary for air bag deployment.

**Non-Activation of Front Air Bags**

Front air bags will not normally inflate in the following cases:

Collision from the rear.



Vehicle roll-over may deploy the side air bag(s) but not the front air bags.



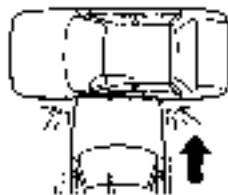
Impact to the side, but it may deploy a side air bag.



SRS Air Bags

Side Air-Bag Activation

Greater than moderate impact to one side of the vehicle (driver or passenger side areas) will cause a side air bag to inflate, but it will not normally deploy the front air bags.



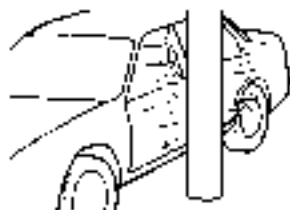
Limitations to Side Air Bag Activation

Depending on the severity of impact, a side air bag may not inflate in the following cases:

Frontal offset impact may not provide enough side impact to deploy a side air bag.



Side impacts involving trees or poles can cause severe cosmetic damage but may not have enough impact force to activate a air bag.



Vehicle roll-over may not provide enough side force to deploy the side air bags.



Side impacts with two-wheeled vehicles may not provide enough force to deploy a side air bag.



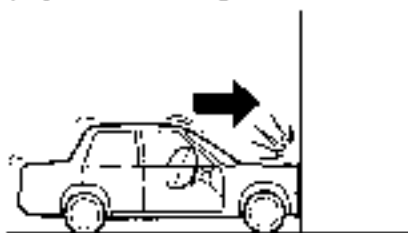
Non-Activation of Side Air-Bags

A side air bag will not normally inflate in the following cases:

Collision from the rear.



Collision from the front, but it may deploy the front air bags.



SRS Air Bags

▼ Constant Monitoring

The following components of the air bag systems are monitored by a diagnostic system:

- SAS unit
- Air bag modules
- Side air bag crash sensors*
- Front seat belt pretensioners
- Related wiring

A diagnostic module continuously monitors the systems' readiness. This begins when the ignition switch is turned to the ON position and continues while the vehicle is being driven.

Air Bag system warning light

If the supplemental restraint system is OK, the SRS warning light comes on when the ignition switch is turned to the ON position or after the engine is cranked. After about 6 seconds it goes out.



A system malfunction is indicated when the SRS warning light constantly flashes, stays on or doesn't come on at all. If any of these occur, consult an Authorized Mazda Dealer as soon as possible. The system may not work in an accident.

▼ Maintenance

The air bag systems are maintenance-free. But if any of the following occurs, take your vehicle to an Authorized Mazda Dealer as soon as possible:

- The air bag system warning light flashes.
- The air bag system warning light stays on.
- The air bag system warning light stays off when the ignition switch is turned to the ON position.
- The air bags inflate.

⚠ WARNING

Self-Servicing the Air Bag Systems:
Self-servicing or tampering with the air bag systems is dangerous. An air bag could accidentally activate or become disabled. This could cause serious injuries. Never tamper with the air bag systems and always have an Authorized Mazda Dealer perform all servicing and repairs.

Removing Interior Parts:
Removing the front seat, front dashboard, the steering wheel or parts containing air bag sensors is dangerous. These parts contain essential air bag parts. The air bag could accidentally activate and cause serious injuries. Always have an Authorized Mazda Dealer remove these parts.

Air Bag Disposal:
Improper disposal of an air bag or a vehicle with live air bags in it can be extremely dangerous. Unless all safety procedures are followed, injury can result. Ask an Authorized Mazda Dealer how to safely dispose of an air bag or how to scrap an air bag equipped vehicle.

Antilock Brake System

Antilock Brake System (ABS) Description

The ABS control unit continuously monitors the speed of each wheel. If one is about to lock up, the ABS responds by automatically releasing and reapplying that wheel's brake.

The driver will feel a slight vibration in the brake pedal and may hear a chattering noise from the brake system. This is normal when the ABS operates. Don't pump the brakes. Continue to press down on the brake pedal.

WARNING

ABS:

The ABS cannot compensate for unsafe and reckless driving, excessive speed, tailgating (following another vehicle too closely), and hydroplaning (reduced tire friction and road contact because of water on the road surface). You can still have an accident. So don't rely on ABS as a substitute for safe driving.

NOTE

Braking distances may be longer on loose surfaces (snow or gravel, for example) which usually have a hard foundation. A vehicle with a normal braking system may require less distance to stop under these conditions because the tires will build up a wedge of surface layer when the wheels skid.

Antilock Brake System

▼ ABS Warning Light

The warning light stays on for a few seconds when the ignition switch is turned to the ON position.



If the ABS warning light stays on while you're driving, the ABS control unit has detected a system malfunction. If this occurs, your brakes will function normally as if the vehicle had no ABS. Should this happen, consult an Authorized Mazda Dealer as soon as possible.

⚠ WARNING

ABS Warning Light and Brake Warning Light on at the Same Time:
Driving when the brake system warning light and ABS warning light are on at the same time is dangerous. When both lights are on, the rear wheels could lock more quickly in an emergency stop than under normal circumstances.

Don't drive with both lights on, and contact an Authorized Mazda Dealer to have the brakes inspected as soon as possible.

NOTE

When the engine is jump-started, an unevenness of rpm occurs and the ABS warning light comes on. This is due to a lack of battery capacity and doesn't indicate a malfunction.

Have the battery recharged as soon as possible.



3

Knowing Your Mazda

Explanation of basic operations and controls; opening / closing and adjustment of various parts.

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Doors and Locks

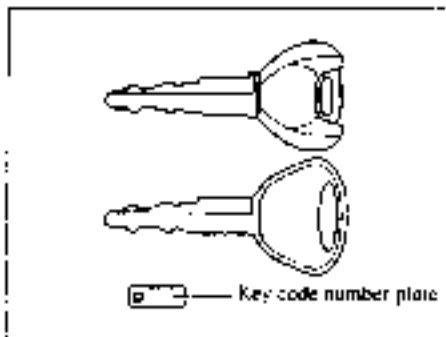
Keys

⚠ WARNING

Keys and Children:

Leaving children in a vehicle with the ignition key is dangerous. This could result in someone being badly injured or even killed. They could play with power windows or other controls, or even make the vehicle move. Don't leave the keys in your vehicle with children.

The keys operate all locks.



A code number is stamped on the plate attached to the key set; detach this plate and store it in a safe place (not in the vehicle) for use if you need to make a replacement key.

Also write down the code number and keep it in another safe and handy place, but not in the vehicle.

If your key is lost, consult your Authorized Mazda Dealer with the code number ready.

Door Locks

⚠ WARNING

Unattended Children and Pets:
Leaving a child or an animal unattended in a parked vehicle is dangerous. In hot weather, temperatures inside a vehicle can become high enough to cause brain damage or even death. Always take all children and animals with you or leave a responsible person with them.

Keys and Children:
Leaving children in a vehicle with the ignition key is dangerous. This could result in someone being badly injured or even killed. They could play with power windows or other controls, or even make the vehicle move. Don't leave the keys in your vehicle with children.

Unlocked Doors:
Unlocked doors in a moving vehicle are dangerous. Passengers can fall out if a door is accidentally opened and can more easily be thrown out in an accident. So keep all doors locked when driving.

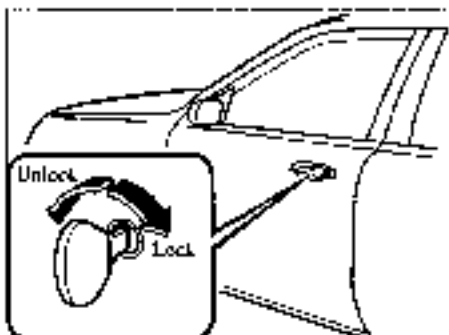
NOTE

Always remove the key from the ignition switch, close all windows, and lock all doors when leaving your vehicle unattended. This discourages intruders and thieves.

▼ Locking, Unlocking with Key

Any front door can be locked or unlocked with a key.

Turn the key toward the front to unlock, toward the back to lock.



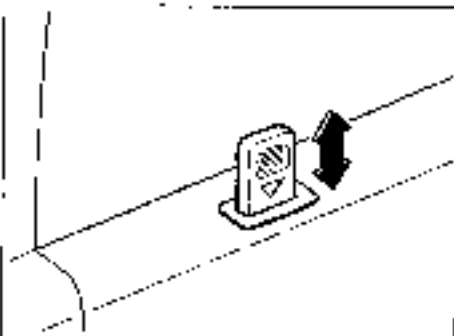
⬆ Lift the handle to open an unlocked door.

Doors and Locks

▼ Locking, Unlocking with Door-Lock button

To lock any door from inside, push down the door-lock button.

To unlock, pull it up.



To lock with the door-lock button from outside, push down the door-lock button, and close the door.



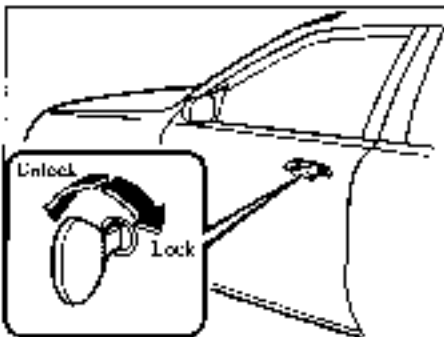
NOTE

When locking the doors this way, be careful not to leave the key inside the vehicle.

▼ Power Door Locks*

Locking, unlocking with key

All doors lock automatically when any door is locked with a key. All doors unlock when the driver's door is unlocked and the key is held in the unlock position. Also, all doors unlock when the passenger's door is unlocked.

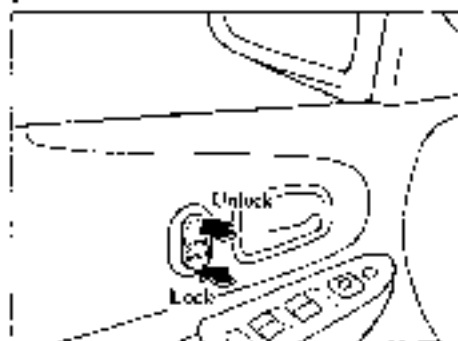


NOTE

Holding the key in the unlocked position in the driver's door lock for about a second unlocks all doors. To unlock only the driver's door, insert a key into the driver's door lock and turn the key briefly to the unlock position and then immediately return it to the center position.

Locking, unlocking with door-lock switch

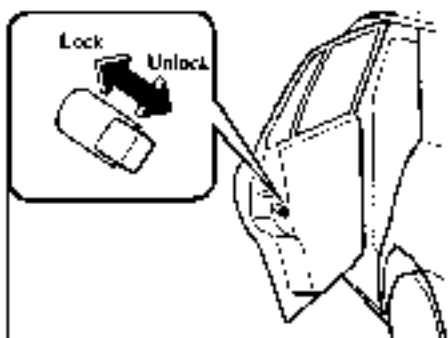
All doors lock automatically when LOCK is pushed. They all unlock when the unmarked part of the door-lock switch is pushed.



▼ Rear Door Child Safety Lock

This lock is intended to help prevent children from accidentally opening the rear doors. Use it whenever a child rides in the vehicle.

If you slide the child safety lock to the lock position before closing that door, the door cannot be opened from the inside. The door can be opened only by lifting the outside handle.



Doors and Locks

Keyless Entry System

This system locks and unlocks the doors. It can also help you signal for attention in an emergency. Press the button slowly and accurately.

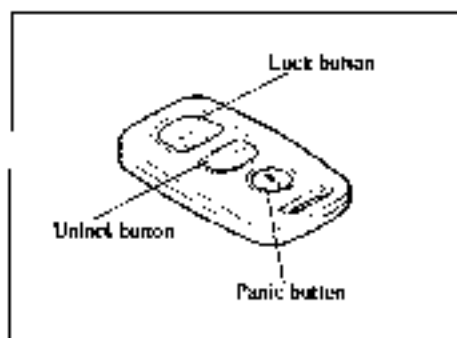
CAUTION

To avoid damage to the transmitter, do not drop it, get it wet, or expose it to heat or sunlight.

NOTE

- The keyless entry system is designed to operate up to about 2.5 m (8 ft) from the center of the vehicle, but this may vary because of local conditions.
- The system doesn't operate when the ignition switch is in the ON position.
- If the transmitter does not operate when pressing a button or the operation range becomes too small, the battery may be dead. To install a new battery, refer to Maintenance (page 3-8).
- Additional transmitters can be obtained at an Authorized Mazda Dealer. Up to 3 additional transmitters can be used with the keyless entry system per vehicle. Bring all transmitters to an Authorized Mazda Dealer when the electronic codes need to be reset.

▼ Transmitter



NOTE

This device complies with part 15 of the FCC Rules and with RSS-210 of Industry Canada. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. (Outside transmissions may momentarily interfere with the device's operation.)

Lock button

To lock the doors, press the LOCK button.

To confirm that all the doors have been locked, press the LOCK button again within 5 seconds. If they are closed and locked, the horn will sound.

NOTE

Confirm that all the doors are locked visually or aurally by use of the double click.

Unlock button

To unlock the driver's door, press the UNLOCK button.

To unlock all the doors, press the UNLOCK button again within 5 seconds.

NOTE

After unlocking with the transmitter, all doors will automatically lock if one is not opened within about 30 seconds.

Panic button

You can use the ! button to turn on the alarm, which allows you to signal for attention in an emergency.

NOTE

The alarm will work whether any door is open or closed.

Turning on the alarm

Pressing the ! button once will sound the horn intermittently and flash the hazard warning lights for about 2 minutes and 30 seconds.

Turning off the alarm

Press any button on the transmitter.

NOTE

- When the LOCK button is pressed, the turn and lane-change indicators and the hazard warning flasher will flash once to indicate that the doors are locked.
- When the UNLOCK button is pressed, the hazard warning flasher will flash twice to indicate that the doors are unlocked.
- If the LOCK and UNLOCK button are pressed sequentially, the turn and lane-change indicators and the hazard warning flasher may not flash correctly.

Doors and Locks

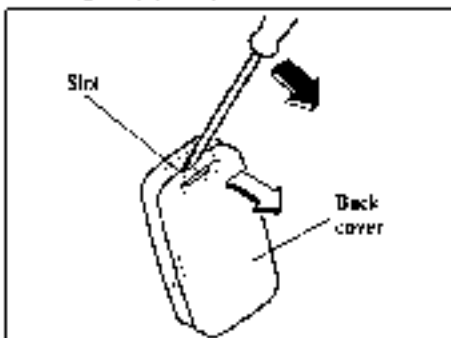
▼ Maintenance

⚠ CAUTION

- Make sure the battery is installed with the correct pole facing upward. Battery leakage could occur if it is not installed correctly.
- When replacing the battery, be careful not to bend the electrical terminals or get oil on them. Also be careful not to get dirt in the transmitter as it could damage it.

Replacing the transmitter battery

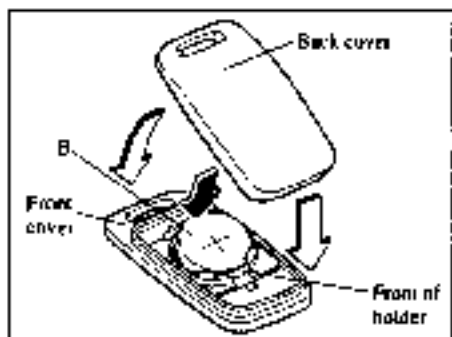
1. Insert a small screwdriver into the slot and gently pry open the transmitter



2. Press the portion of the battery indicated by A and remove the battery.



3. Install a new battery (CR2025 or the equivalent) into the front portion of the holder with the positive pole (+) facing up. Press on the B portion of the battery to set the battery.



⚠ CAUTION

Do not press any buttons when replacing the battery. The electronic code could be altered and cause the keyless entry system to malfunction. If the keyless entry system fails to operate, contact an Authorized Mazda Dealer.

4. Align the front and back covers and snap the transmitter shut.

▼ Service

If you have a problem with the keyless entry system, consult an Authorized Mazda Dealer.

If your transmitter is lost or stolen, bring all remaining transmitters to an Authorized Mazda Dealer as soon as possible for a replacement and to make the lost or stolen transmitter inoperative.

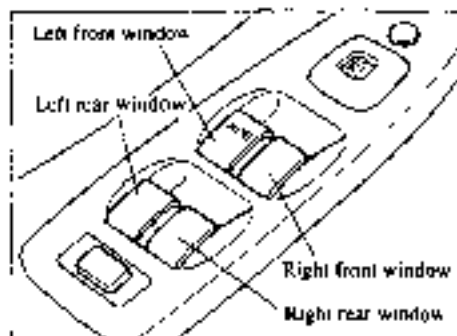
⚠ CAUTION

- Changes or modifications could void your right to operate the keyless entry system.
- Damage to your keyless entry system will affect the vehicle warranty coverage.

Power Windows

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

All windows may be opened or closed by the power window master control switches on the driver's door.



⚠ WARNING

Closing Power Windows:
Closing power windows are dangerous. A person's hands, head, or even neck could be caught by the window and result in serious injury or even death. This warning applies especially to children. Make sure the opening is clear before closing a window.

⚠ CAUTION

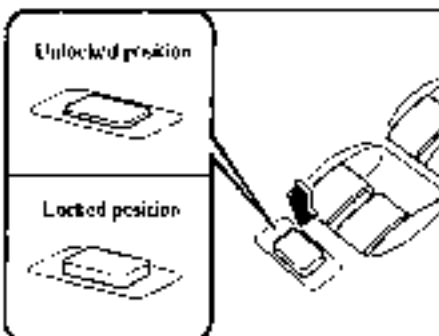
To prevent burning out the fuse and damaging the power window system, don't open or close more than two windows at once.

Doors and Locks

▼ Power Window Lock Switch

With the lock switch in the unlocked position, all power windows on each door can be operated.

With the lock switch in the locked position, only the driver's door power window can be operated.



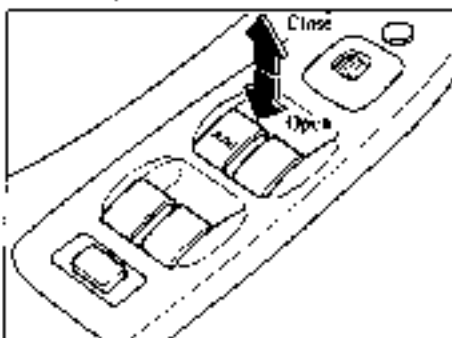
⚠ WARNING

Unintentional Window Operation:
Unintentional window operation is dangerous. A person's hands, head, or neck could be caught by the window and result in serious injury. Unless a passenger needs to operate a window, keep the power window lock switch in the locked position.

▼ Driver's Door Power Window Switches

To open the window, push down the switch.

To close, pull up the switch.



Auto-opening (Driver's window)

To fully open the window automatically, push the switch completely down.

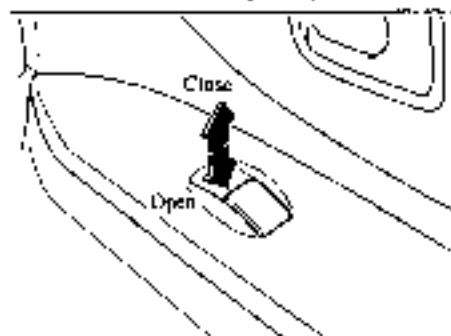
To stop the window partway, pull up the switch and then release it.

▼ Passenger-Door Power Window Switch

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

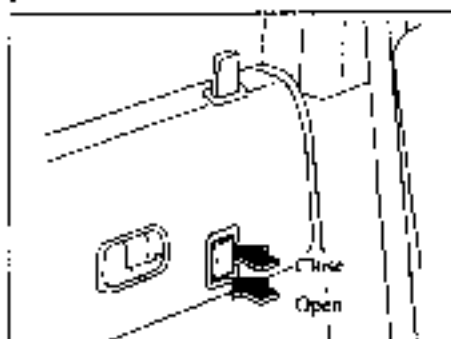
To open the window, push down the switch.

To close the window, pull up the switch.



▼ Rear Door Power Window Switch

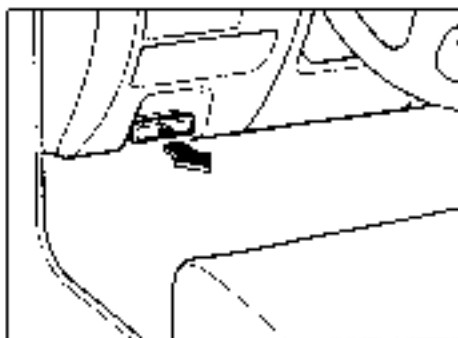
To open a window, push the lower part of its switch inward. To close, push the upper part inward.



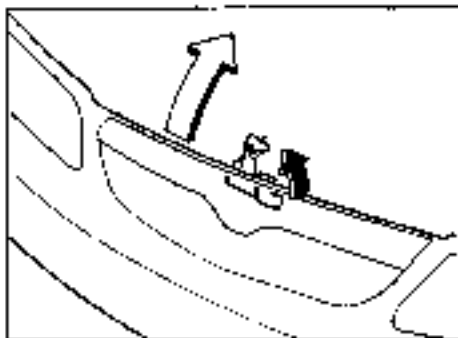
Hood

▼ Opening the Hood

1. With the vehicle parked, pull the release handle to unlock the hood.

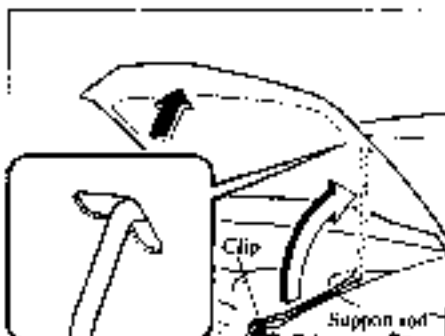


2. Pull the safety catch up and lift the hood.



Doors and Locks

3. Use the support rod to hold the hood open.



Before closing the hood, secure the rod in its clip.

▼ Closing the Hood

1. Check under the hood area to make certain all filler caps are in place and all loose items (e.g. tools, oil containers, etc.) have been removed.
2. Close the hood so that it locks securely.



Trunk Lid

⚠ WARNING

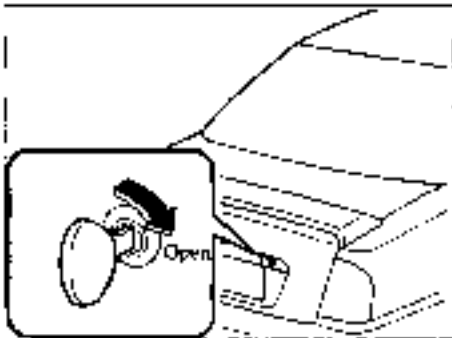
Open Trunk and Exhaust Gas: Exhaust gas in the cabin of a vehicle is dangerous. This gas contains CO (carbon monoxide), which is colorless, odorless, and highly poisonous. If inhaled, it can cause loss of consciousness and death. Because exhaust gas can get into the cabin through an open trunk, keep the trunk closed when driving.

▼ Key-Operated Trunk

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

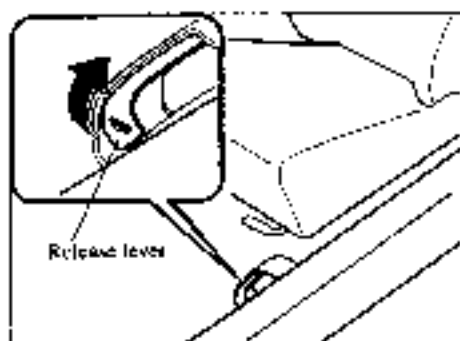
To close, use both hands to push the lid down until the lock snaps shut. Don't slam it.

Then pull up on it to make sure it's secure.



▼ Remote Trunk Lid Release

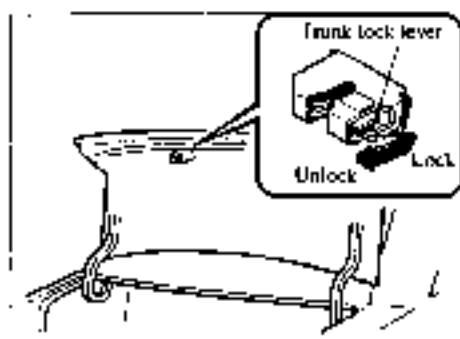
To release the trunk lid from inside the vehicle, pull up the release lever next to the driver's seat.



▼ Remote Trunk Lid Release Lock-Out

As an added security feature, the remote release may be canceled to prevent anyone from opening the trunk without the primary key.

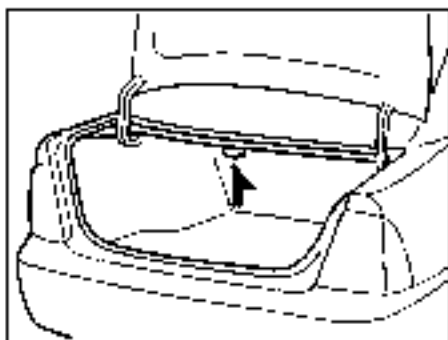
To activate the remote trunk lid release lock-out, lock the rear seatbacks (page 2-7), then push the trunk lock lever up, and close the trunk.



To reactivate the remote release, open the trunk with the key and push the trunk lock lever down.

▼ Trunk Light*

The trunk light is on when the lid is open and off when it's closed.



Doors and Locks

Trunk Release Handle

Your vehicle is equipped with a trunk release handle that provides a means of escape for children and adults in the event they become locked inside the trunk.

No matter how careful adults might be with keys and locking their cars, parents should be aware that children may be tempted to play around vehicles and use the trunk as a hiding place.

Adults are advised to familiarize themselves with the operation and location of the release handle so that all children can be told about it in an appropriate way, keeping in mind that most vehicles don't have such handles.

WARNING

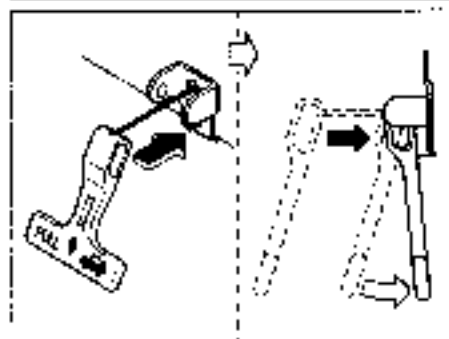
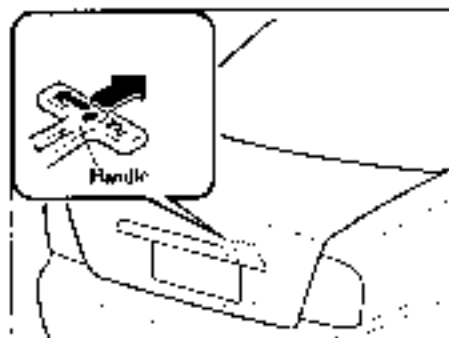
***Open Trunk Lid and Children:**
Leaving the trunk lid open or leaving children in the vehicle with the keys is dangerous. Children could open the trunk lid and climb inside resulting in possible injury or death from heat exposure. Close the trunk lid, lock the rear seatbacks and do not allow children to play inside the vehicle.*

***Unattended Children and Pets:**
Leaving children or animals unattended in a parked vehicle is dangerous. Babies left sleeping and kids who lock themselves in cars or trunks can die very quickly from heat prostration. Don't leave your children or pets alone in a car at any time. Don't leave the car, the rear folding seats or the trunk unlocked. Always keep the car from being a tempting place to play by locking doors, trunk and rear seats and keeping the keys where children won't play with them.*

▼ Opening the trunk lid from the inside

Pull the illuminated "T" shaped handle. The handle is made of material that will glow for hours in the darkness of the trunk following a brief exposure to ambient light.

The "T" shaped handle is located on the inside of the trunk lid.



⚠ CAUTION

Always keep the handle firmly attached to the holder and in the recessed position. Not securing the handle this way could allow it to snag luggage in the trunk and open the trunk lid.

Fuel-Filler Lid and Cap

⚠ WARNING

Fuel Spray:

Fuel spray is dangerous. Fuel can burn skin and eyes and cause illness when ingested. Fuel spray is released when there is pressure in the fuel tank and the fuel cap is removed too quickly. When removing the fuel cap, loosen the cap slightly and wait for any hissing to stop. Then remove it.

Fuel Vapor:

Fuel vapor is dangerous. It could be ignited by sparks or flames; causing serious burns and injuries. Before refueling, stop the engine. And always keep sparks and flames away from the filler neck.

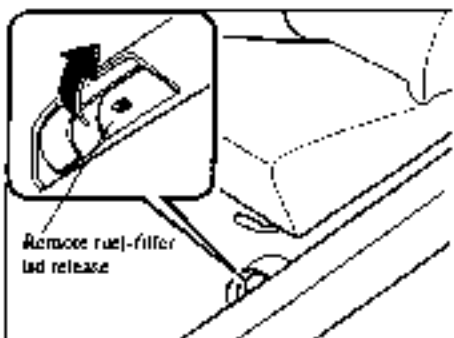
⚠ CAUTION

Always use only a designated Mazda fuel cap or an approved equivalent, available at Authorized Mazda Dealers. The wrong cap can result in a serious malfunction of the fuel and emission control systems. It may also cause the check engine light in the instrument cluster to illuminate.

Doors and Locks

▼ Fuel-Filler Lid

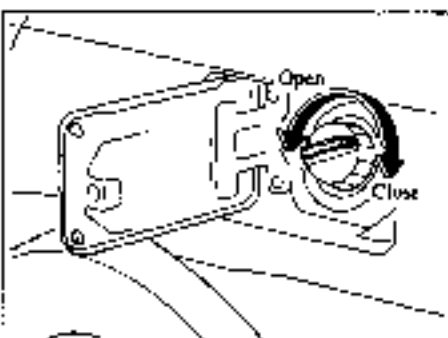
To open, push the remote fuel-filler lid release.



▼ Fuel-Filler Cap

To remove the filler cap, turn it counterclockwise.

To replace the filler cap, turn it clockwise until it clicks.

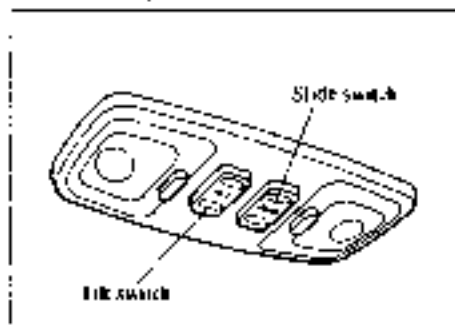


⚠ CAUTION

Make sure the fuel-filler cap is tightened securely. The check engine light comes on when the cap isn't tightened securely. If the light remains on (even after you have tightened the cap securely, driven, and restarted the engine several times), it may indicate a different problem. Contact an Authorized Mazda Dealer as soon as possible.

Sunroof*

The sunroof can be opened or closed electrically only when the ignition switch is in the ON position.



⚠ WARNING

Extending the Head or Arms Through the Sunroof.

Extending the head, arms, or other parts of the body through the sunroof is dangerous. The head or arms could hit something while the vehicle is moving. This could cause death or serious injury. Don't let passengers stand up or extend anything through the open sunroof while the vehicle is moving.

Closing the Sunroof:

A closing sunroof is dangerous. The hands, head, or even neck of a person - especially a child - could be caught in it as it closes, causing serious injury or even death. Make sure the opening is clear before closing the sunroof.

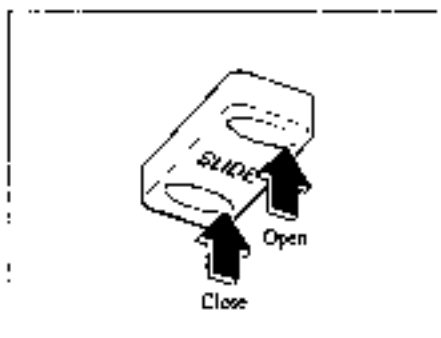
NOTE

After washing your Mazda or after a rain, wipe the water off the sunroof before operating it.

▼ Slide Operation

To open to any position, press the rear of the slide switch located on the right side of the overhead console.

To close, press the front of the slide switch.



Doors and Locks

▼ Tilt Operation

The rear of the sunroof can be tilted open to provide more ventilation.

To tilt, push the rear of the tilt switch located on the left side of the overhead console.

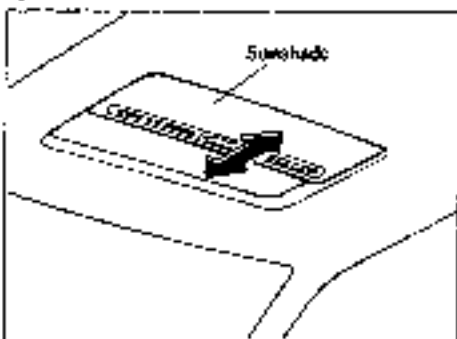
To close, push the front of the tilt switch.



▼ Sunshade

The sunshade can be opened and closed by hand when the sunroof is closed.

The sunshade opens automatically when the sunroof is opened, but must be closed by hand.



⚠ CAUTION

The sunshade doesn't tilt. To avoid damaging the sunshade, don't push up on it.

Steering Wheel and Mirrors

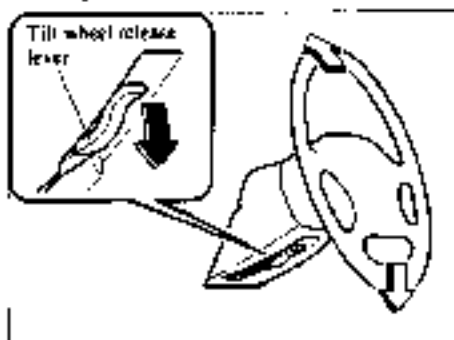
Steering Wheel

⚠ WARNING

Adjusting the Steering Wheel:
Adjusting the steering wheel while the vehicle is moving is dangerous. Moving it can very easily cause the driver to abruptly turn to the left or right. This can lead to loss of control or an accident. Never adjust the steering wheel while the vehicle is moving.

▼ Tilt Wheel

To change the angle of the steering wheel, stop the vehicle, pull the tilt wheel release lever under the steering column down, adjust the wheel, then push the release lever up to lock the column.



After adjusting, push the wheel up and down to be certain it's locked before driving.

Mirrors

▼ Outside Mirrors

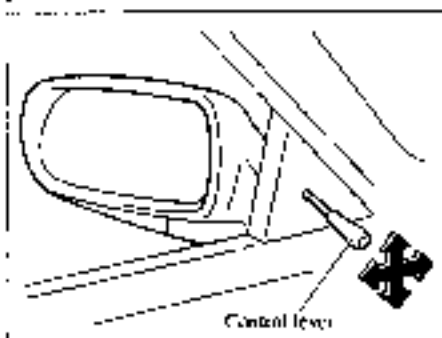
⚠ WARNING***Convex Mirror (Passenger Side Type):***

Changing lanes without taking into account the actual distance of the vehicle in the convex mirror is dangerous. You could have a serious accident. What you see in the convex mirror is closer than it appears. Be sure to look over your shoulder or to check your inside mirror before changing lanes.

Check the mirror's angles before driving.

Manual control mirror*

To adjust, move the mirror's control lever, just inside the door.



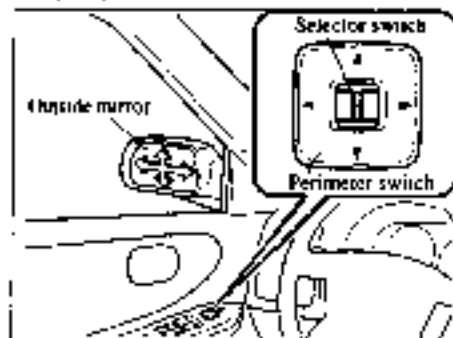
Steering Wheel and Mirrors

Power control mirror*

The ignition switch must be in the ACC or ON position.

To adjust:

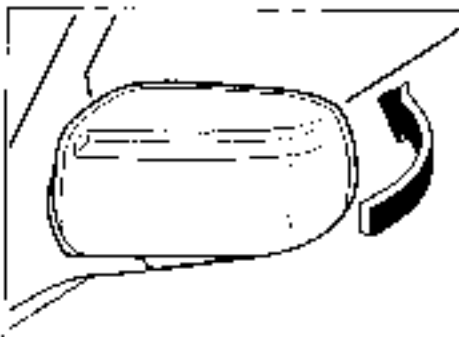
1. Move the selector switch to the left or right to choose the mirror.
2. Depress the perimeter switch in the appropriate direction.



After adjusting the mirror, lock the control by moving the switch to the middle position.

Folding the mirror

Fold the outside mirror rearward until it is flush with the vehicle.



⚠ WARNING

***Driving with Mirrors Folded In:**
Driving with the outside mirrors folded in is dangerous. Your rear view will be restricted, and you could have an accident. Always return the outside mirrors to the driving position before you start driving.*

▼ Rearview Mirror
(With Day/Night Function)

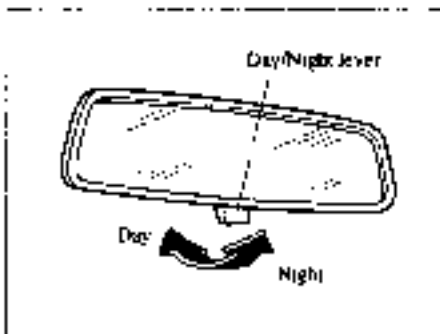
⚠ WARNING

Blocked View:

Goods stacked higher than the seatbacks is dangerous. It can block your view in the rearview mirror, which might cause you to hit another car when changing lanes. Don't stack things higher than the seatbacks.

Before driving, adjust the rearview mirror to center on the scene through the rear window. Do this with the day/night lever in the day position.

Push the lever forward for day driving. Pull it back to reduce glare from headlights.



Important information about driving your vehicle.

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Fuel and Engine Exhaust Precautions

Fuel Requirements

Vehicle damage and drivability problems resulting from the use of the following may not be covered by the Mazda warranty.

- Gasohol containing more than 10% ethanol
- Gasoline or gasohol containing methanol
- Leaded fuel or leaded gasohol

CAUTION

• **NEVER USE LEADED FUEL.**

It is harmful to the catalytic converter.

The lead will accumulate on the oxygen sensor and the catalyst inside the converter. This will result in a malfunction of the emission control system, causing poor performance.

- Your vehicle can only use oxygenated fuels containing no more than 10% ethanol by volume. Damage to your vehicle may occur when ethanol exceeds this recommendation, or if the gasoline contains any methanol. Stop using gasohol of any kind if your vehicle engine is performing poorly.
- Never add fuel system additives. Never add cleaning agents other than those specified by Mazda. Other cleaning agents and additives may damage the system. Consult an Authorized Mazda Dealer.

Vehicles with catalytic converters must use **ONLY UNLEADED FUEL**, which will reduce exhaust emissions and keep spark plug fouling to a minimum.

Your Mazda will perform best with regular unleaded fuel having an octane rating (antiknock index) of at least 87 (R+M)/2 method].

Fuel with a lower rating could cause the emission control system to lose effectiveness. It could also cause engine knocking and serious engine damage.

U.S. federal law requires that octane ratings be posted on gasoline station pumps.

Gasoline blended with oxygenates such as alcohol or ether compounds are generally referred to as oxygenated fuels.

The common gasoline blend that can be used with your vehicle is ethanol blended at no more than 10%.

Gasoline containing alcohol, such as ethanol or methanol, may be marketed under the name "Gasohol".

Fuel and Engine Exhaust Precautions

Emission Control System

WARNING

Parking Over Things That Burn:

Parking over or near anything inflammable, such as dry grass, is dangerous. Even with the engine turned off, the exhaust system could ignite it because the exhaust system gets very hot during normal use. A resulting fire could cause serious injury or death. Never park over or near anything inflammable.

CAUTION

Ignoring the following precautions could cause lead to accumulate on the catalyst inside the converter or cause the converter to get very hot. Either condition will damage the converter and cause poor performance.

- **USE ONLY UNLEADED FUEL.**
- Don't drive your Mazda with any sign of engine malfunction.
- Don't coast with the ignition switch turned off.
- Don't descend steep grades in gear with the ignition switch turned off.
- Don't operate the engine at high idle for more than 5 minutes.
- Don't tamper with the emission control system. All inspections and adjustments must be made by a qualified technician.
- Don't try to push-start or pull-start your vehicle.

Your vehicle is equipped with an emission control system (the catalytic converter is part of this system) that enables your vehicle to comply with U.S. exhaust emissions requirements.

Under U.S. federal law, any modification to the original-equipment emission control system before the first sale and registration of a vehicle is subject to penalties. In some states, such modification made on a used vehicle is also subject to penalties.

Fuel and Engine Exhaust Precautions

Engine Exhaust (Carbon Monoxide)

WARNING

Carbon Monoxide:

Engine exhaust is dangerous. This gas contains carbon monoxide (CO), which is colorless, odorless, and poisonous. When inhaled, it can cause loss of consciousness and death. If you smell exhaust gas inside your vehicle, keep all windows fully open and contact an Authorized Mazda Dealer immediately.

Exhaust Gas in Enclosed Area:

Running the engine inside an enclosed area, such as a garage, is dangerous. Exhaust gas, which contains poisonous carbon monoxide, could easily enter the cabin. Loss of consciousness or even death could occur. Don't run the engine when inside an enclosed area.

Idling with the Windows Closed:

Exhaust gas is dangerous. When your vehicle is stopped with the windows closed and the engine running for a long time in an open area, exhaust gas, which contains poisonous carbon monoxide, could enter the cabin. Loss of consciousness or even death could occur. Open the windows or adjust the heating or cooling system to draw fresh air.

Snow Blocking the Exhaust Gas:

Running the engine when a vehicle is stopped in deep snow is dangerous. The exhaust pipe could be blocked by the snow, allowing exhaust gas to enter the cabin. Because exhaust gas contains poisonous carbon monoxide, anyone in the cabin could be injured or killed. Clear the snow from underneath and around your vehicle before starting the engine.

Before Starting the Engine

Before Getting In

- Be sure the windows, outside mirror(s), and outside lights are clean.
- Inspect inflation pressures and condition of tires.
- Look under the vehicle for any sign of a leak.
- If you plan to back up, make sure nothing will be in your way.

NOTE

Engine oil, engine coolant, brake/clutch fluid, washer fluid, and other fluid levels should be inspected daily, weekly, or at refueling, depending on the fluid. See Maintenance, Section 9.

After Getting In

- Are all doors closed and locked?
 - Are the inside and outside mirrors adjusted?
 - Is everyone's seat belt fastened?
 - Do all the lights work?
 - Check all gauges.
 - Check all warning lights when the ignition switch is turned to the ON position.
 - Release the parking brake and make sure the brake warning light goes off.
- Always be thoroughly familiar with your Mazda.

Driving Tips

Break-In Period

No special break-in is necessary, but a few precautions in the first 1,000 km (600 miles) may add to the performance, economy, and life of your Mazda.

- Don't race the engine.
- Don't maintain one constant speed for long.
- Don't drive constantly at full-throttle or high engine rpm for extended periods of time.
- Avoid unnecessary hard steps.
- Avoid full-throttle starts.

Money-Saving Suggestions

How you operate your Mazda determines how far it will travel on a tank of fuel. Use these suggestions to help save money on fuel and repairs.

- Avoid long warm-ups. Once the engine runs smoothly, begin driving.
- Avoid fast starts.
- Keep the engine tuned. Follow the maintenance schedule (page 9-3) and have an Authorized Mazda Dealer perform inspections and servicing.
- Use the air conditioner only when necessary.
- Slow down on rough roads.
- Keep the tires properly inflated.
- Don't carry unnecessary weight.
- Don't rest your foot on the brake pedal while driving.
- Keep the wheels in correct alignment.
- Keep windows closed at high speeds.
- Slow down when driving in crosswinds and headwinds.

WARNING

Coasting:

Turning off the engine to coast down a hill is dangerous. This causes the loss of power steering and power brake control. Any loss of steering or braking control could cause an accident. Never turn off the engine and coast down a hill.

Hazardous Driving

WARNING

***Downshifting on Slippery Surfaces:** Downshifting into lower gear while driving on slippery surfaces is dangerous. The sudden change in tire speed could cause the tires to skid. This could lead to loss of vehicle control and an accident. If it is necessary to downshift on slippery surfaces, be very careful.*

When driving on ice or in water, snow, mud, sand, or similar hazard:

- Be cautious and allow extra distance for braking.
- Avoid sudden braking and quick steering.
- Brake with the pedal by using a light up-down motion. Don't hold the pedal down constantly.
- If you get stuck, shift to 1 or 2 and accelerate slowly. Don't spin the front wheels.
- For more traction in starting, use sand, rock salt, chains, carping, or other nonslip material under the front wheels.

Rocking the Vehicle

WARNING

***Spinning the Wheels:** When the vehicle is stuck, spinning the wheels at high speed is dangerous. The spinning tire could overheat and explode. This could cause serious injuries. Don't spin the wheels at more than 56 km/h (35 mph), and don't allow anyone to stand behind a wheel when pushing the vehicle.*

CAUTION

Too much rocking may cause engine overheating, transaxle failure, and tire damage.

If you must rock the vehicle to free it from snow, sand, or mud, depress the accelerator slightly and...

(Automatic transaxle)

Slowly move the shift lever back and forth from D to R.

(Manual transaxle)

Slowly move the shift lever back and forth from 1 to R.

Driving Tips

Winter Driving

- Carry emergency gear, including tire chains, window scraper, flares, a small shovel, jumper cables, and a small bag of sand or salt.
- Ask a Mazda dealer to perform the following precautions.
- Have the proper ratio of antifreeze in the radiator.
- Inspect the battery and its cables. Cold reduces battery capacity.
- Use only cold-weather engine oil (page 9-9).
- Inspect the ignition system for damage and loose connections.
- Use washer fluid made with antifreeze—but don't use engine coolant antifreeze for washer fluid (page 9-19).
- Don't use the parking brake if it might freeze. Instead, shift to P with an automatic transaxle and to 1 or R with a manual transaxle. Block the rear wheels.

▼ Snow tires

WARNING

Mixing Tire Types:

Using tires different in size or type is dangerous. Your vehicle's handling could be greatly affected and result in an accident. Use only the same size and type tires (snow, radial, or non-radial) on all four wheels.

NOTE

Check out local regulations before using studded tires.

1.6 and 2.0-liter engines

Your vehicle is originally equipped with all season radials designed to be used all year around. In some extreme climates you may find it necessary to replace them with snow tires during the winter months to further improve traction on snow and ice covered roads.

1.8-liter engine

Your vehicle is originally equipped with summer tires designed for optimum traction on wet and dry roads. If your vehicle is to be used on snow and ice covered roads, you may find it necessary to replace the original equipment tires with snow tires, during the winter months.

Use snow tires on all four wheels.

Don't go faster than 120 km/h (75 mph). Inflate snow tires 28 kPa (0.3 kgf/cm², 4 psi) more than recommended on the tire pressure label (driver's door), but never more than the maximum cold-tire pressure shown on the tires.

▼ Tire chains**⚠ CAUTION**

- Chains may scratch or chip aluminum wheels. Install tire chains on steel wheels only.
- Chains may affect handling.
- Don't go faster than 50 km/h (30 mph) or the chain manufacturer's recommended limit, whichever is lower.
- Drive carefully and avoid bumps, holes, and sharp turns.
- Avoid locked-wheel braking.
- Don't use chains on the temporary tire; it may result in damage to the vehicle and to the tire.
- Don't use chains on roads that are free of snow or ice. The tires and chains could be damaged.

Check local regulations before using tire chains.

Install the chains on the front tires.

Don't use chains on the rear tires.

Use only SAE Class "S" chains, and make sure they fit.

Installing the chains

1. Remove the wheel covers, or the chain hands will scratch them.
2. Secure the chains on the front tires as tightly as possible. Always follow the chain manufacturer's instructions.
3. Retighten the chains after driving 1/2-1 km (1/4-1/2 mile)

Driving Tips

▼ Driving in Flooded Areas

WARNING

Driving with Wet Brakes:
Driving with wet brakes is dangerous. Increased stopping distance or the vehicle pulling to one side when braking could result in a serious accident. Light braking will indicate whether the brakes have been affected. Dry the brakes by driving very slowly and applying the brakes lightly until brake performance returns to normal.

CAUTION

Make sure water does not enter the vehicle interior or the engine area. The vehicle interior could become wet or the engine could be damaged.

Trailer Towing

Never tow a trailer with your Mazda.

▼ Load Limit

WARNING

Vehicle Load Weight:
The gross axle weight rating (GAWR) and the gross vehicle weight rating (GVWR) of your vehicle are on the Motor Vehicle Safety Standard Label on the driver's door frame. Exceeding these ratings can cause an accident or vehicle damage. You can estimate the weight of your load by weighing the items (or people) before putting them in the vehicle. Be careful not to overload your vehicle.

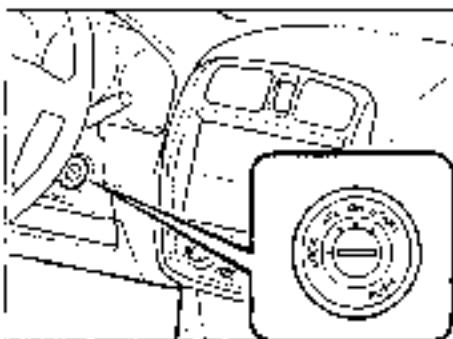
Explanation of instruments and controls.

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Starting and Driving

Ignition Switch

▼ Ignition Switch Positions

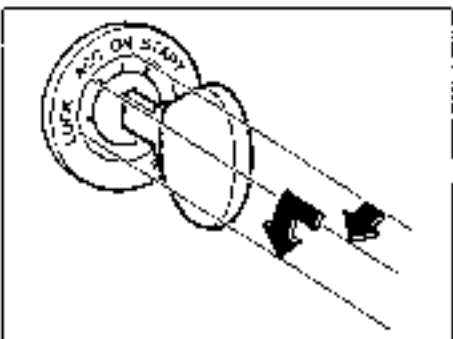


LOCK

The steering wheel locks to protect against theft. Only in this position can the key be removed.

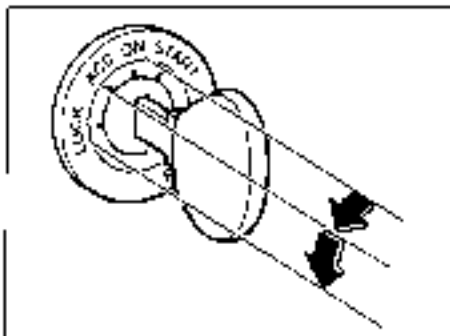
Manual transaxle

When turning the ignition switch to the LOCK position, push the key in at the ACC position.



Automatic transaxle

When turning the ignition switch to the LOCK position, keep the shift lever in P



⚠ WARNING

Removing the Key:

It's dangerous to remove the key from the ignition switch while the vehicle is moving. Removing the key allows the steering wheel to lock. You will lose steering control and a serious accident could occur.

Remove the key only when the vehicle is parked.

Not Setting the Parking Brake:

Leaving the driver's seat without setting the parking brake is dangerous. Unexpected vehicle movement could occur if the parking brake is not set. This could cause an accident. Before leaving the driver's seat, always set the parking brake and make sure the shift lever is in P with an automatic transaxle or in 1 or R with a manual transaxle.

NOTE

If turning the key is difficult, jiggle the steering wheel from side to side.

ACC (Accessory)

The steering wheel unlocks and some electrical accessories will operate.

ON

This is the normal running position after the engine is started. The warning lights (except brakes) should be inspected before the engine is started (page 5-20).

START

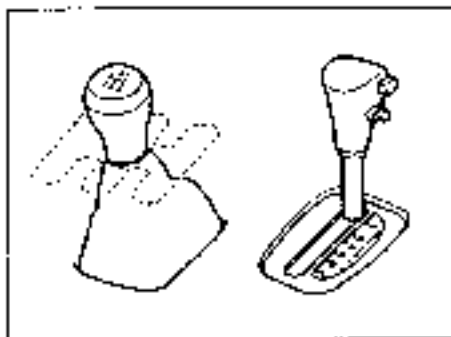
The engine is started in this position. It will crank until you release the key, then it returns to the ON position. The brake warning light can be checked after the engine is started (page 5-20).

▼ Ignition Key Reminder

If the ignition switch is in the LOCK or ACC position, a beep will sound when any door is opened.

Starting the Engine

1. Occupants should fasten their seat belts.
2. Make sure the parking brake is on.
3. Depress the brake pedal.
4. **(Manual transaxle)**
Depress the clutch pedal all the way and shift into neutral.
Keep the pedal depressed while cranking the engine.
(Automatic transaxle)
Put the vehicle in park (P). If you must restart the engine while the vehicle is moving, shift into neutral (N).



NOTE

The starter will not operate..

- If the shift lever is not in P or N (automatic), or
- If the clutch pedal is not pushed down all the way (manual).

Starting and Driving

5. Turn the ignition switch to the START position and hold (up to 10 seconds at a time) until the engine starts.

CAUTION

Don't try the starter for more than 10 seconds at a time. If the engine stalls or fails to start, wait 10 seconds before trying again. Otherwise, you may damage the starter and drain the battery.

6. After starting the engine, let it idle for about 10 seconds.

NOTE

- In extremely cold weather, below -18°C (0°F), or after the vehicle has stood idle several days, let the engine warm up without operating the accelerator.
- Whether cold or warm, the engine should be started without use of the accelerator.

Brake System

▼ Foot Brake

Your Mazda has power-assisted brakes that adjust automatically through normal use.

Should power-assist fail, you can stop by applying greater force than normal to the brake pedal. (But the distance required to stop will be greater than usual.)

WARNING

Driving with the Engine Off.

Continuing to drive when the engine is stalled or turned off is dangerous. Braking will require more effort, and the brake's power-assist could be depleted if you pump the brake. This will cause longer stopping distances or even an accident. Don't continue driving when the engine is stalled or turned off, find a safe place to stop.

Riding the Brakes:

Driving with your foot continuously on the brake pedal or steadily applying the brakes for long distances is dangerous. This causes overheated brakes, resulting in longer stopping distances or even total brake failure. This could cause loss of vehicle control and a serious accident. Avoid continuous application of the brakes. Shift to a lower gear when going down steep hills.

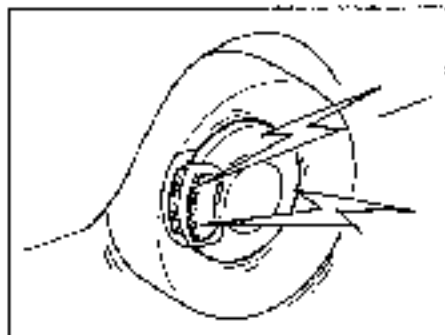
⚠ WARNING

Driving with Wet Brakes:

Driving with wet brakes is dangerous. Increased stopping distance or the vehicle pulling to one side when braking could result in a serious accident. Light braking will indicate whether the brakes have been affected. Dry the brakes by driving very slowly and applying the brakes lightly until brake performance is normal.

▼ Brake Pad Wear Indicator

When the disc brake pads become worn, the built-in wear indicators contact the disc plates. This causes a screeching noise to warn that the pads should be replaced.



When you hear this noise, consult an Authorized Mazda Dealer as soon as possible.

⚠ WARNING

Driving with Worn Disc Pads:

Driving with worn disc pads is dangerous. The brakes could fail and cause a serious accident. As soon as you hear a screeching noise consult an Authorized Mazda Dealer.

Starting and Driving

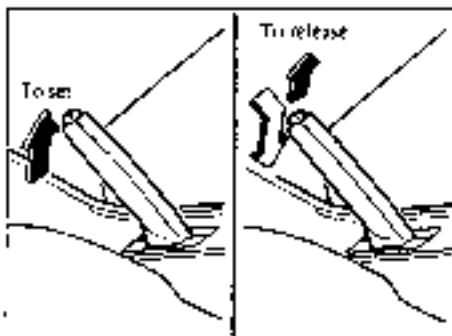
▼ Parking Brake

⚠ CAUTION

Driving with the parking brake on will cause excessive wear of the brake linings or pads.

To set the parking brake, depress the brake pedal; then pull the brake handle fully upward.

To release it, pull the handle up and press the button. Depress the brake pedal, then lower the handle to the release position while holding in the button. Release the pedal when it's safe to do so.



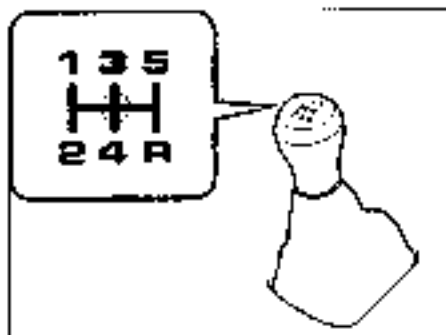
▼ Brake System Warning Light

If the brake warning light stays on after the parking brake is fully released, the brake system has a malfunction. Refer to Warning Lights/Beeps (page 5-20).



Manual Transaxle Operation

▼ Manual Transaxle Shift Pattern



The shift pattern of the transaxle is conventional, as shown.

Press the clutch pedal all the way down while shifting; then release it slowly.

A safety feature prevents accidental shifting from 5 to R. The shift lever must be put in neutral before being shifted to R.

⚠ CAUTION

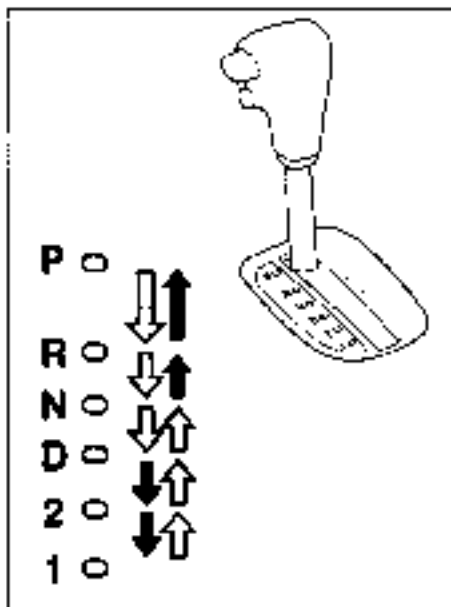
Keep your foot off the clutch pedal except when shifting gears. Also, don't use the clutch to hold the vehicle on an upgrade. This will avoid needless clutch wear and damage.

NOTE

- Make sure the vehicle is stopped before shifting to R.
- If shifting into reverse is difficult, shift into neutral, release the clutch pedal, and try again.

Automatic Transaxle Controls

▼ Transaxle Ranges



Various Lockouts:



Indicates that you must depress the brake pedal and hold in the lock-release button to shift. (The ignition switch must be in the ACC or ON position.)



The shift lever can be shifted freely into any position indicated by the ↑ arrow.



Indicates that you must hold in the lock-release button to shift.

The shift lever must be in P or N to operate the starter.

Starting and Driving

P (Park)

P locks the transaxle and prevents the front wheels from rotating.

⚠ WARNING

Holding the Vehicle with P:
Setting the shift lever to the P position without using the parking brake to hold the vehicle is dangerous. If P fails to hold, the vehicle could move and cause an accident. To hold the vehicle, set the shift lever to P AND set the parking brake.

⚠ CAUTION

- Shifting into P or R while the vehicle is moving can damage your transaxle.
- Shifting into a driving gear or reverse when the engine is running faster than idle can damage the transaxle.

R (Reverse)

In position R, the vehicle moves only backward. You must be at a complete stop before shifting from R, except as explained under *Rocking the Vehicle* (page 4-7).

N (Neutral)

In N, the wheels and transaxle are not locked. The vehicle will roll freely even on the slightest incline unless the parking brake or brakes are on.

⚠ WARNING

Shifting from N or P:
It's dangerous to shift from N or P into a driving gear when the engine is running faster than idle. If this is done, the vehicle could move suddenly, causing an accident or serious injury. If the engine is running faster than idle, don't shift from N or P into a driving gear.

D (Drive)

D is the normal driving position. From a stop, the transaxle will automatically shift through a 4-gear sequence.

2 (Second)

The 2 position is helpful when driving in heavy, slow-moving traffic and climbing hills, for engine braking assist when going down hills, or for starting on slick surfaces and other situations where gentle acceleration may be necessary. Do not exceed 100 km/h (62 mph) in the 2 position.

1 (Low)

Use the 1 position for maximum power in hard-pulling situations, or for climbing and descending very steep grades. Do not exceed 48 km/h (30 mph) in the 1 position.

▼ Shift-Lock System

For your safety, the automatic transaxle has a shift-lock, which prevents shifting out of P unless the brake pedal is depressed.

To shift from P:

1. Depress and hold the brake pedal.
2. Start the engine.
3. Push and hold the lock-release button.
4. Move the shift lever.

NOTE

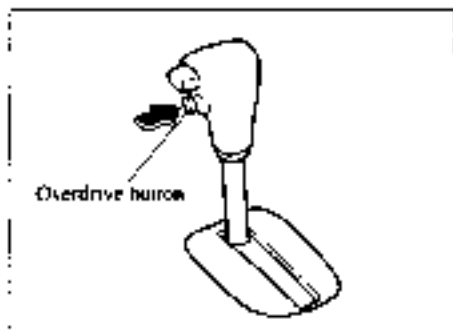
- When the ignition switch is in the LOCK position, the transaxle cannot be shifted from P.
- To be sure the vehicle is in park, the ignition key cannot be removed unless the shift lever is in P.

▼ Overdrive

Overdrive operation

In D, the transaxle automatically shifts to overdrive, which improves fuel economy and reduces noise.

To allow engine braking when going down a steep grade, make sure the overdrive button is in the off position.



And for a smoother ride with less shifting, don't use it when:

- Going up a steep grade.
- Driving in stop-and-go traffic.
- Pulling heavy loads.

Starting and Driving

To turn off the overdrive, push the button.

The transaxle will then shift through a three-gear sequence in D.

Shift patterns without overdrive:

D = 1st, 2nd, 3rd

2 = 2nd

1 = 1st

To turn it on, push the button again.

Shift patterns with overdrive:

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

2 = 2nd

1 = 1st

Overdrive-off indicator

CAUTION

If the overdrive-off indicator light flashes, the transaxle has an electrical problem. Continuing to drive your Mazda in this condition could cause damage to your transaxle. Consult an Authorized Mazda Dealer as soon as possible.

This light comes on when the overdrive has been turned off.



O/D
OFF

▼ Driving Tips

Passing

For extra power when passing another vehicle or climbing steep grades, depress the accelerator fully. The transaxle will shift to a lower gear, depending on vehicle speed.

Climbing steep grades from a stop

To climb a steep grade from a stopped position:

1. Depress the brake pedal.
2. Shift to D or 1 depending on the load weight and grade steepness.
3. Release all brakes while gradually accelerating.

Descending steep grades

When descending a steep grade, shift to 2 or 1, depending on load weight and grade steepness. Descend slowly, using the brakes only occasionally to prevent them from overheating.

Power Steering

Power steering is only operable when the engine is running. If the engine is off or if the power steering system is inoperative, you can still steer, but it requires more physical effort.

If the steering feels rigid during normal driving, consult an Authorized Mazda Dealer.

CAUTION

Never hold the steering wheel to the extreme left or right for more than five seconds with the engine running. This could damage the power steering system.

Cruise Control

With cruise control, you can set and automatically maintain any speed of more than about 40 km/h (25 mph).

WARNING

Cruise Control Use:

Using cruise control in the following conditions could cause you to lose control of the vehicle:

- *Heavy or unsteady traffic*
- *Slippery or winding roads*
- *Similar restrictions that require inconsistent speed*

Don't use cruise control in these situations.

Cruise Set Indicator Light

The cruise set indicator comes on when a cruising speed is set.

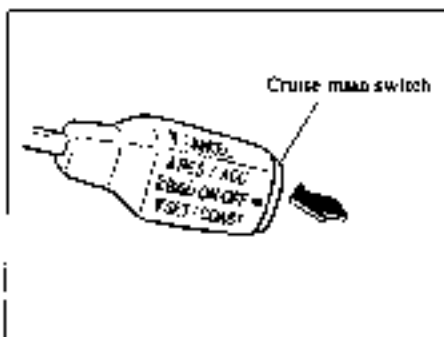
CRUISE

Starting and Driving

▼ Activation/Deactivation

To activate the system, push the CRUISE MAIN switch.

To deactivate the system, push the switch again.



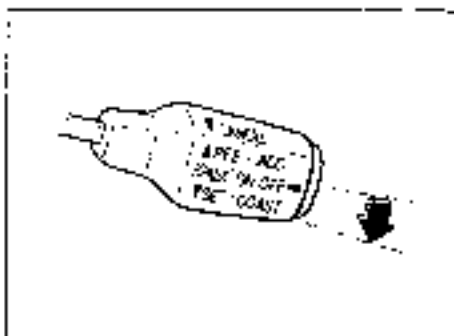
⚠ WARNING

Cruise Main Switch:

Leaving the CRUISE MAIN switch on when not using the cruise control is dangerous as it may be switched on accidentally. This could result in loss of vehicle control. Keep the CRUISE MAIN switch off when cruise control is not in use.

▼ To Set Speed

1. Turn on the CRUISE MAIN switch
2. Accelerate to the desired speed, which must be more than 40 km/h (25 mph).
3. Move the cruise control lever down to SET/COAST and release it at the speed you want. Release the accelerator at the same time.



Don't continue to hold the lever. Until you release it, speed will continue to drop (unless you continue to accelerate) and you'll miss the desired speed.

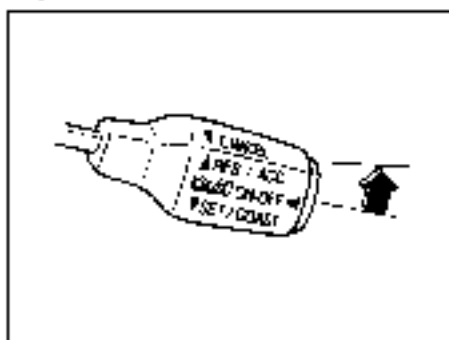
NOTE

- The SET function can't be activated until about 2 seconds after the CRUISE MAIN switch has been engaged.
- On a steep grade, the vehicle may momentarily slow down going up or speed up while going down.

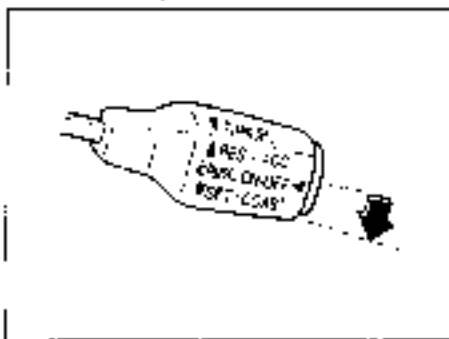
▼ **To Increase Cruising Speed**

Follow either of these procedures.

- Move the control lever up to **RES/ACC** and hold it. Your vehicle will accelerate.
Release the lever at the desired speed you want.



- Accelerate to the desired speed.
Move the control lever down to **SET/COAST** and release it immediately.



Your vehicle has a tap-up feature that allows you to increase your current speed in increments of 1.6 km/h (1 mph) by a momentary tap of the control lever. Multiple taps will increase your vehicle speed 1.6 km/h (1 mph) for each tap.

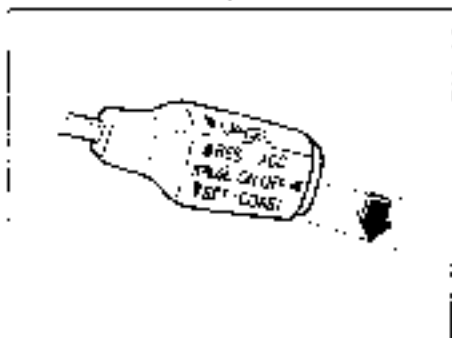
Accelerating with Cruise Control On

Accelerate if you want to speed up temporarily when the cruise control is on. Greater speed will not interfere with it or change the set speed.

Take your foot off the accelerator to return to the set speed.

▼ **To Decrease Cruising Speed**

Move the control lever down to **SET/COAST** and hold it. Release the lever at the desired speed.

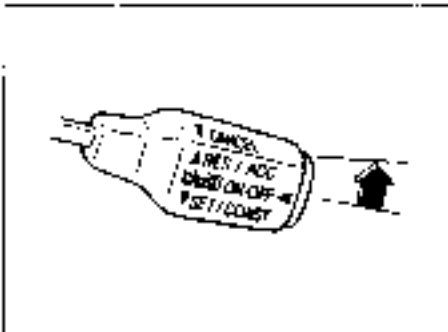


Your vehicle has a tap-down feature that allows you to decrease your current speed in increments of 1.6 km/h (1 mph) by a momentary tap of the control lever. Multiple taps will decrease your vehicle speed 1.6 km/h (1 mph) for each tap.

Starting and Driving

▼ To Resume Cruising Speed at More Than 40 km/h (25 mph)

If something besides the CRUISE MAIN was used to cancel cruising speed and the system is still activated, the most recent set speed will automatically resume when the control lever is moved up to the RES/ACC position, then released. If vehicle speed is below 40km/h (25mph), increase the vehicle speed up to 40km/h (25mph) and move the lever up to the RES/ACC position.



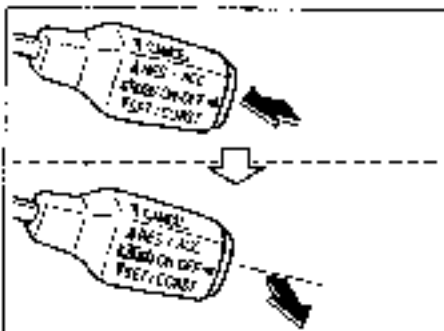
NOTE

With an automatic transaxle vehicle, the gear is automatically selected when going uphill.

▼ To Cancel

To turn off the system, use one of these methods:

- Push the CRUISE MAIN switch.
- Slightly depress the brake pedal
- Pull the lever toward you
- Depress the clutch pedal (Manual transaxle)



The system is off when the ignition is off.

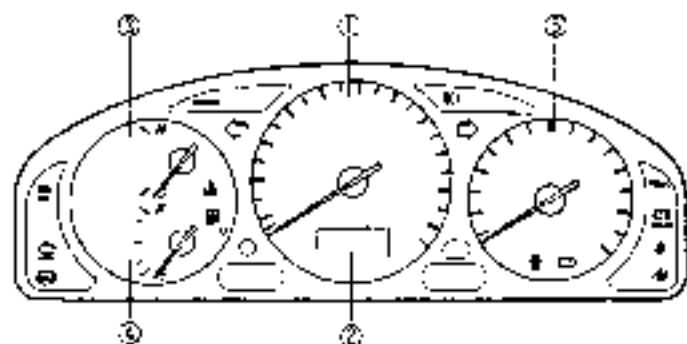
NOTE

Cruise control will cancel at about 15 km/h (9 mph) below the preset speed or below 40 km/h (25 mph).

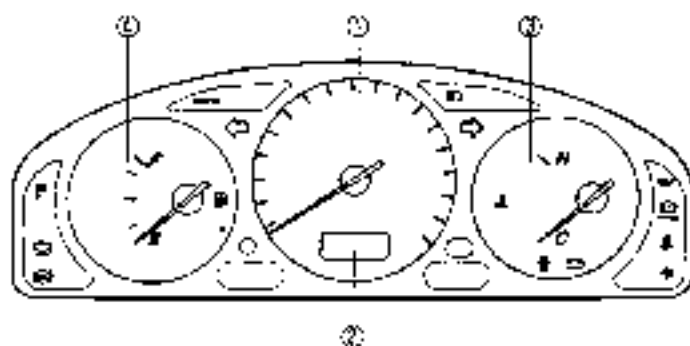
Instrument Cluster and Indicators

Meters and Gauges

With tachometer



Without tachometer



① Speedometer	5-16
② Odometer and Trip Meter	5-16
③ Water Temperature Gauge	5-17
④ Fuel Gauge	5-17
⑤ Tachometer	5-17

Instrument Cluster and Indicators

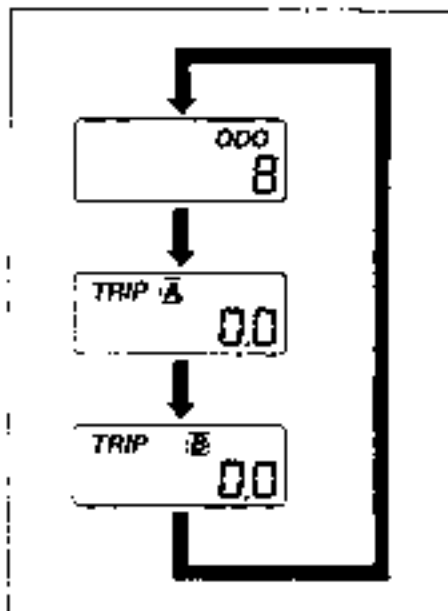
▼ Speedometer

The speedometer indicates the speed of the vehicle.

▼ Odometer and Trip Meter

The ignition switch must be in the ON position.

The display mode can be changed from odometer to trip meter A to trip meter B and then back to odometer by pressing the selector. The selected mode will be displayed.



NOTE

The display mode can be changed while the vehicle is stopped for about a 10 minute period after the door is opened or the ignition switch is in the ACC or LOCK position.

Odometer

When this mode is selected, ODO will be displayed.

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

Trip meter

The trip meter can record the total distance of two trips. One is recorded in trip meter A, and the other is recorded in trip meter B.

For instance, trip meter A can record the distance from the point of origin, and trip meter B can record from where the fuel tank is filled.

When trip meter A is selected, pressing the selector again within one second will change to trip meter B mode.

When trip meter A is selected, TRIP A will be displayed. When meter B is selected, TRIP B will be displayed.

The trip meter records the total distance the vehicle is driven until the meter is again reset. Return it to "0.0" by holding the selector depressed for more than 1 second. Use this meter to measure trip distances and in to compute fuel consumption.

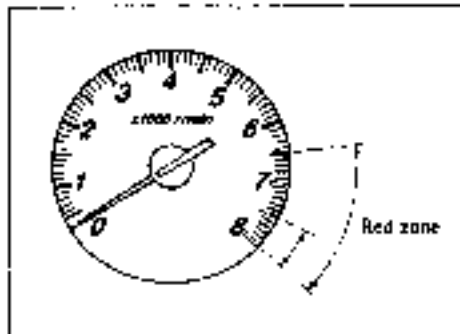
Instrument Cluster and Indicators

NOTE

- Only the trip meters record tenths of kilometers (miles).
- The trip record will be erased when:
 - The power supply is interrupted (blown fuse or the battery is disconnected).
 - The vehicle is driven over 999.9 km (mile).

▼ Tachometer

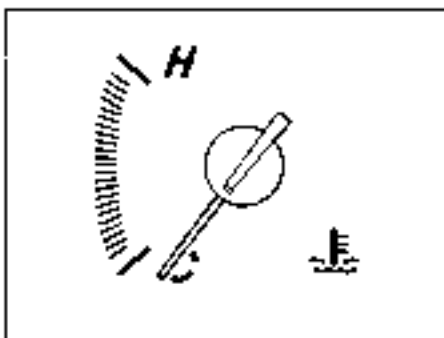
The tachometer shows engine speed in thousands of revolutions per minute (rpm).

**⚠ CAUTION**

Don't run the engine with the tachometer needle in the RED ZONE. This may cause severe engine damage.

▼ Water Temperature Gauge

The water temperature gauge shows the temperature of the engine coolant.



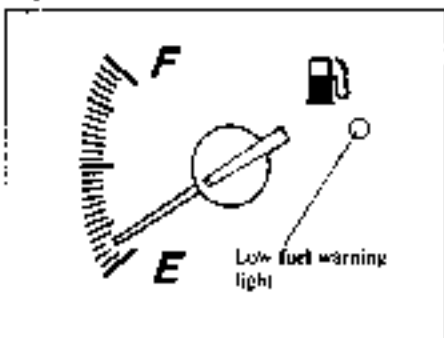
If the needle exceeds normal range toward H, it indicates overheating.

⚠ CAUTION

Driving with an overheated engine can cause serious engine damage (page 7-11).

▼ Fuel Gauge

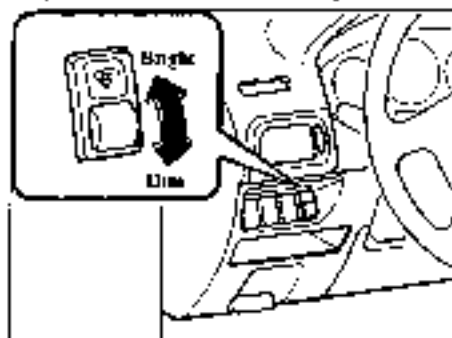
The fuel gauge shows approximately how much fuel is in the tank. We recommend keeping the tank over 1/4 full. When the low fuel warning light illuminates or when the needle is near E, refuel as soon as possible.



Instrument Cluster and Indicators

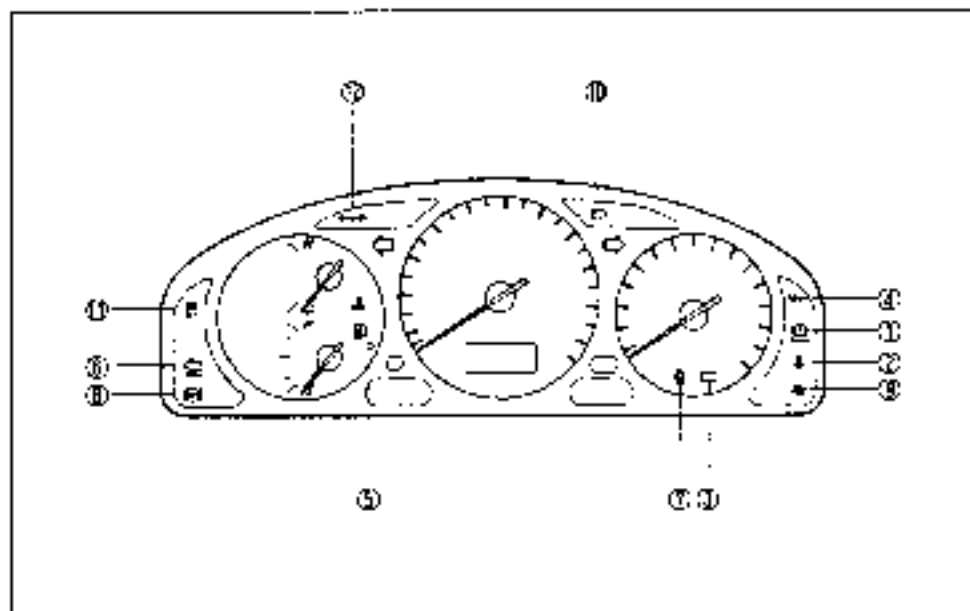
▼ Dashboard Illumination

When the parking lights or headlights are on, rotate the thumb-wheel to adjust the brightness of the dashboard lights.



Warning/Indicator Lights and Beeps

Warning/Indicator Lights



① Brake System Warning Light	5-20
② Seat Belt Warning Light/Beep	5-21
③ Charging System Warning Light	5-22
④ Engine Oil Pressure Warning Light	5-22
⑤ Low Fuel Warning Light	5-23
⑥ Check Engine Light	5-23
⑦ Door-Ajar Warning Light	5-23
⑧ Antilock Brake System (ABS) Warning Light	5-24
⑨ Supplemental Restraint System Warning Light	5-25
⑩ Headlight High-Beam Indicator Light	5-25
⑪ O/D OFF Indicator Light	5-25
⑫ Cruise Set Indicator Light	5-26

Warning/Indicator Lights and Beeps

▼ Warning Lights Inspection

Inspect the warning lights by turning the ignition switch to the ON position with the engine off and the parking brake on. Consult an Authorized Mazda Dealer about any light that doesn't come on.

If the brake system warning light is off when the ignition switch is in the START position, have the system inspected by an Authorized Mazda Dealer.

After starting the engine, make sure all warning lights are off. If one stays on, it's signaling for attention.

The brake system warning light should go off when the parking brake is released.

▼ Brake System Warning Light



This warning light comes on when the ignition switch is turned to the ON position. When the parking brake is not applied, it goes out after about 2 seconds.

This warning has the following functions:

Parking brake warning

The light comes on when the parking brake is applied with the ignition switch in the START or ON position. It goes off when the parking brake is fully released.

Low brake fluid level warning/Electronic brake force distribution system warning

If the light stays on after the parking brake is fully released, you may have a brake problem.

Drive to the side of the road and park off the right-of-way.

Low brake fluid level warning

You may notice that the pedal is harder to push or that it may go closer to the floor. In either case, it will take longer to stop the vehicle.

1. With the engine stopped, check the brake fluid level immediately and add fluid as required (page 9-16).
2. After adding fluid, check the light again.

If the warning light remains on, or if the brakes do not operate properly, do not drive the vehicle. Have it towed to an Authorized Mazda Dealer.

Even if the light goes off, have your brake system inspected as soon as possible.

Warning/Indicator Lights and Beeps

Electronic brake force distribution system warning

If the electronic brake force distribution control unit determines that some components are operating incorrectly, the control unit may turn the brake system warning light on.

In this case, the ABS warning light comes on at the same time. (page 5-24)

⚠ WARNING

Brake Warning Light:

Driving with the brake system warning light on is dangerous. It indicates that your brakes may not work at all or that they could completely fail at any time. If this light remains on, have the brakes inspected immediately. Don't drive with this light on, and contact an Authorized Mazda Dealer to have the brakes inspected as soon as possible.

ABS Warning Light and Brake

Warning Light on at the Same Time:

Driving when the brake system warning light and ABS warning light are on at the same time is dangerous. When both lights are on, the rear wheels could lock more quickly in an emergency stop than under normal circumstances.

Don't drive with both lights on, and contact an Authorized Mazda Dealer to have the brakes inspected as soon as possible.

▼ Seat Belt Warning Light/Beep



If the driver's seat belt is not fastened when the ignition switch is turned to the ON position, a beep will sound for about 6 seconds and the seat belt warning light will remain on until the belt is fastened. If the system does not operate correctly, consult an Authorized Mazda Dealer.

Warning/Indicator Lights and Beeps

▼ Charging System Warning Light



This warning light indicates a malfunction of the alternator or of the charging system.

If the light comes on while driving:

1. Drive to the side of the road and park off the right-of-way.
2. Turn off the engine. Inspect the alternator drive belt for looseness and breakage.
3. If it's OK, the charging system has a problem. Consult an Authorized Mazda Dealer as soon as possible.

⚠ CAUTION

Don't drive with a loose or broken alternator belt. The engine could overheat because this belt also drives the water pump.

▼ Engine Oil Pressure Warning Light



This warning light indicates low engine oil pressure.

If the light comes on while driving:

1. Drive to the side of the road and park off the right-of-way.
2. Turn off the engine and inspect the engine oil level (page 9-10). If it's low, add oil.
3. Check the light.

If the light remains on even after you add oil, have your vehicle towed to the nearest service station or to an Authorized Mazda Dealer.

⚠ CAUTION

Don't run the engine if oil pressure is low. It could result in extensive engine damage.

Warning/Indicator Lights and Beeps

▼ Low Fuel Warning Light



This warning light in the fuel gauge signals that the fuel tank will soon be empty.

Get fuel as soon as possible.

▼ Check Engine Light



If this light comes on while driving, the vehicle may have a problem. It is important to note the driving conditions when the light came on and consult an Authorized Mazda Dealer.

The check engine light may come on in the following cases:

- The fuel tank level being very low or approaching empty.
- The engine's electrical system has a problem.
- The emission control system has a problem.
- A ROOM fuse blows or is removed.
- The fuel-filler cap is missing or not tightened securely.

If the check engine light flashes continuously, decrease your speed and consult an Authorized Mazda Dealer as soon as possible.

▼ Door-Ajar Warning Light



This warning light comes on when any door isn't securely closed.

Warning/Indicator Lights and Beeps

▼ Antilock Brake System (ABS) Warning Light



The warning light stays on for a few seconds when the ignition switch is turned to the ON position.

If the ABS warning light stays on while you're driving, the ABS control unit has detected a system malfunction. If this occurs, your brakes will function normally as if the vehicle had no ABS. Should this happen, consult an Authorized Mazda Dealer as soon as possible.

NOTE

When the engine is jump-started to charge the battery, uneven rpm occurs and the ABS warning light comes on. This is due to a weak battery, not a malfunction. Recharge the battery.

△WARNING

ABS Warning Light and Brake Warning Light on at the Same Time:
Driving when the brake system warning light and ABS warning light are on at the same time is dangerous. When both lights are on, the rear wheels could lock more quickly in an emergency stop than under normal circumstances. Don't drive with both lights on, and contact an Authorized Mazda Dealer to have the brakes inspected as soon as possible.

Warning/Indicator Lights and Beeps

▼ Air Bag System Warning Light



If the supplemental restraint system is OK, the warning light comes on when the ignition switch is turned to the ON position or after the engine is cranked. After about 6 seconds it goes out.

A system malfunction is indicated when this light constantly flashes, stays on or doesn't come on at all. If one of these occur, consult an Authorized Mazda Dealer as soon as possible. The system may not work in an accident.

⚠ WARNING

Self-Servicing the Supplemental Restraint System:

Self-servicing or tampering with the supplemental restraint system is dangerous. The air bags could accidentally activate or become disabled. This could cause serious injuries. Never tamper with the supplemental restraint system and always have an Authorized Mazda Dealer perform all servicing and repairs.

▼ Headlight High-Beam Indicator Light



This light indicates one of two things:

- The high-beam headlights are on
- The turn-signal lever is in the flash-to-pass position

▼ O/D OFF Indicator Light (Automatic Transmission)



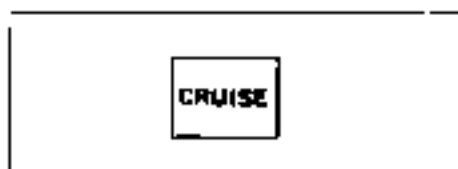
This light comes on when the overdrive has been turned off.

⚠ CAUTION

If the overdrive-off indicator light flashes, the transaxle has an electrical problem. Continuing to drive your Mazda in this condition could cause damage to your transaxle. Consult an Authorized Mazda Dealer as soon as possible.

Warning/Indicator Lights and Beeps

▼ Cruise Set Indicator Light



This light comes on when a cruising speed is set.

Beeps

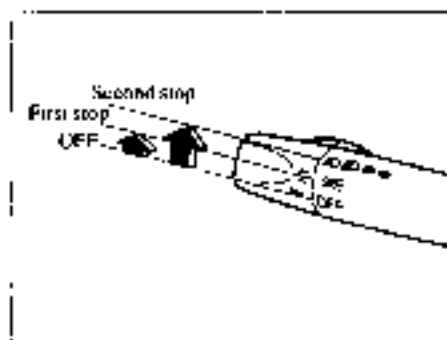
▼ Ignition Key Reminder

If the ignition switch is in the LOCK or ACC position, a beep will sound when any door is opened.

▼ Lights-On Reminder


If lights are on and the key is removed from the ignition switch, a beep will sound when any door is opened.

Lighting Control



▼ Headlights

To turn on the lights, turn the knob on the end of the control lever.

Lever Position	OFF	EDGE	
Headlights	Off	Off	On
Tailights			
Dashboard lights			
Parking lights			
License lights	Off	On	On
Side-marker lights			

NOTE

To prevent discharging the battery, don't leave the lights on while the engine is off.

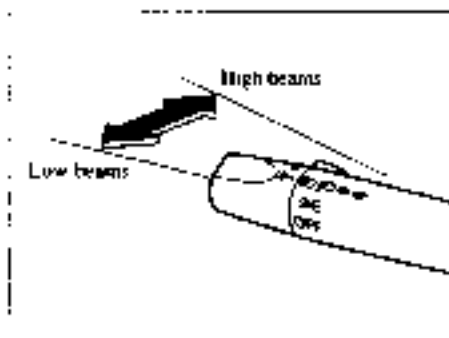
▼ Lights-on reminder

If the lights are on and the key is removed from the ignition switch, a beep will sound when any door is opened.

▼ Headlight high-low beam

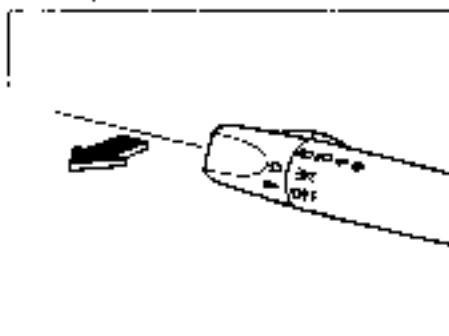
Push the lever forward for high beams. Pull it back for low.

The high-beam indicator light on the dashboard is blue.



▼ Flashing the headlights

To flash the headlights, pull the lever fully toward you. The headlight switch need not be on, and the lever will return to the normal position when released.



The high-beam indicator light on the dashboard is blue.

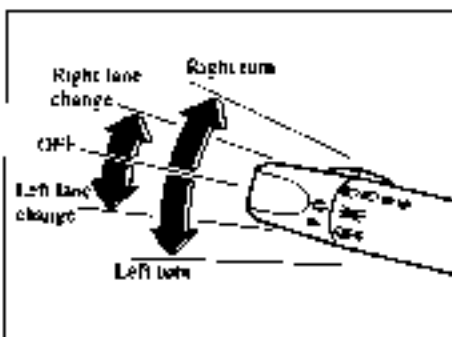
Switches and Controls

Turn and Lane-Change Signals

▼ Turn signal

Move the signal lever down (for a left turn) or up (for a right turn) to the stop position. The signal will self-cancel after the turn is completed.

If the indicator light continues to flash after a turn, manually return the lever to its original position.



Green indicators on the dashboard show which signal is working.

Lane-change signals

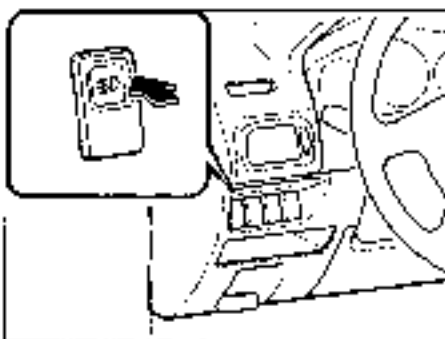
Move the lever slightly toward the direction of the change - until the indicator flashes - and hold it there. It will return to the off position when released.

NOTE

If an indicator light stays on without flashing or if it flashes abnormally, the turn-signal bulb may be burned out.

Front Fog Lights

Use this switch to turn on the fog lights. They help you to see as well as to be seen.



To turn on the fog lights, first turn on the headlight switch. Then press the fog light switch. To turn the fog lights off, press the fog light switch again or turn the headlight switch off.

Windshield Wipers and Washer

The ignition switch must be in the ON position.

⚠ WARNING

Frozen Washer Fluid:

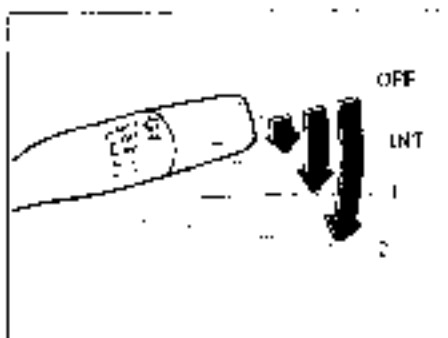
Using windshield washer fluid in freezing temperatures is dangerous. The washer fluid could freeze on the windshield and block your vision. You could have an accident. Don't use the washer without first warming the windshield.

NOTE

Because heavy ice and snow can jam the wiper blades, the wiper motor is protected by a circuit breaker. This mechanism will automatically stop operation of the blades, but only for about 5 minutes.

If this happens, turn off the wiper switch and park off the right-of-way. After 5 minutes, turn on the switch and the blades should operate normally. If they don't, consult an Authorized Mazda Dealer as soon as possible.

▼ Windshield Wipers

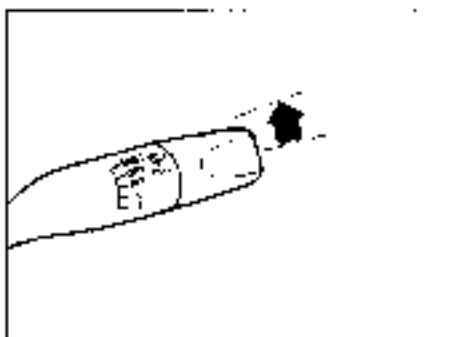


Turn the wipers on by pulling the lever down.

INT — Intermittent
1 — Normal
2 — Fast

One-touch wipers

For a single wiping cycle, push the lever up to MIST.

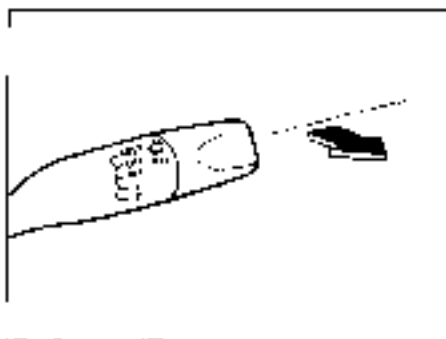


Switches and Controls

▼ Windshield Washer

The ignition switch must be in the ON position.

Pull the lever toward you and hold it to spray washer fluid. In the OFF or INT position, the wipers will be activated until the lever is released.



If the washer doesn't work, inspect the fluid level (page 9-19). If it's OK, consult an Authorized Mazda Dealer.

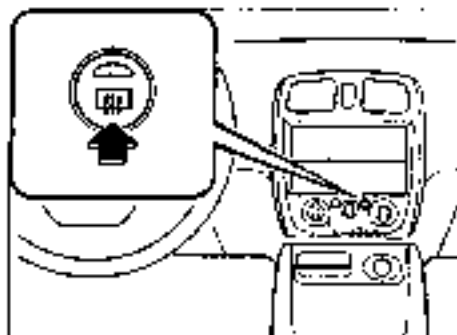
Rear Window Defroster

The rear defroster clears frost, fog, and thin ice from the rear window.

The ignition switch must be in the ON position.

Push the switch to turn on the rear window defroster; the indicator light will come on.

Push the switch again to turn it off.



⚠ CAUTION

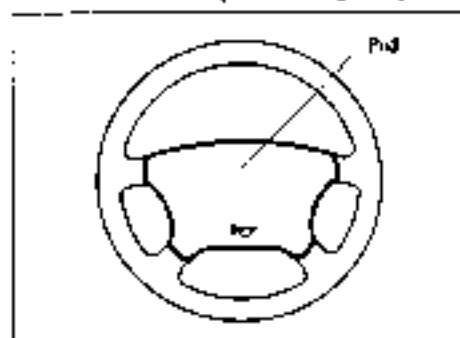
Don't use sharp instruments or window cleaners with abrasives to clean the inside of the rear window surface. They may damage the defroster grid inside the window.

NOTE

- This defroster is not designed for melting snow. If there is an accumulation of snow on the rear window, brush it off before using the defroster.
- The rear defroster shuts off when the ignition switch is turned off.

Horn

To sound the horn, press the padded portion of the steering wheel.
Check the horn's operation regularly.



Hazard Warning Flasher

The hazard warning lights warn other drivers that your vehicle is a traffic hazard and that they must take extreme caution when near it.

The hazard warning lights should always be used when you stop on or near a roadway.



Depress the hazard warning switch and all four turn signals will flash at once.

NOTE:

- The turn signals don't work when the hazard warning lights are on.
- Check local regulations about the use of hazard warning lights while the vehicle is being towed. They may forbid it.

6

Interior Comfort

Use of various features for drive comfort, including climate control and audio system.

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Climite Control System

Operating Tips

▼ Operating the climate control system

Operate the climate control system with the engine running.

▼ Clearing the air inlet

Clear all obstructions like leaves, snow and ice from the hood and the air inlet in the cowl grille to improve the system efficiency.

▼ Foggy windows

The windows may fog up easily in humid weather. Use the climate control system to defrost the windows.

To help defrost the windows, operate the air conditioner to dehumidify the air.

▼ Outside/Recirculated air position

Use the outside air position in normal conditions. The recirculated air position can be used temporarily when driving on dusty roads or for quick cooling of the interior.

▼ Parking in direct sunlight

If the vehicle has been parked in direct sunlight during hot weather, open the windows to let warm air escape, then run the climate control system.

▼ Not using for a long period

Run the air conditioner at least once a month to keep internal parts lubricated.

▼ Check the refrigerant before weather gets hot

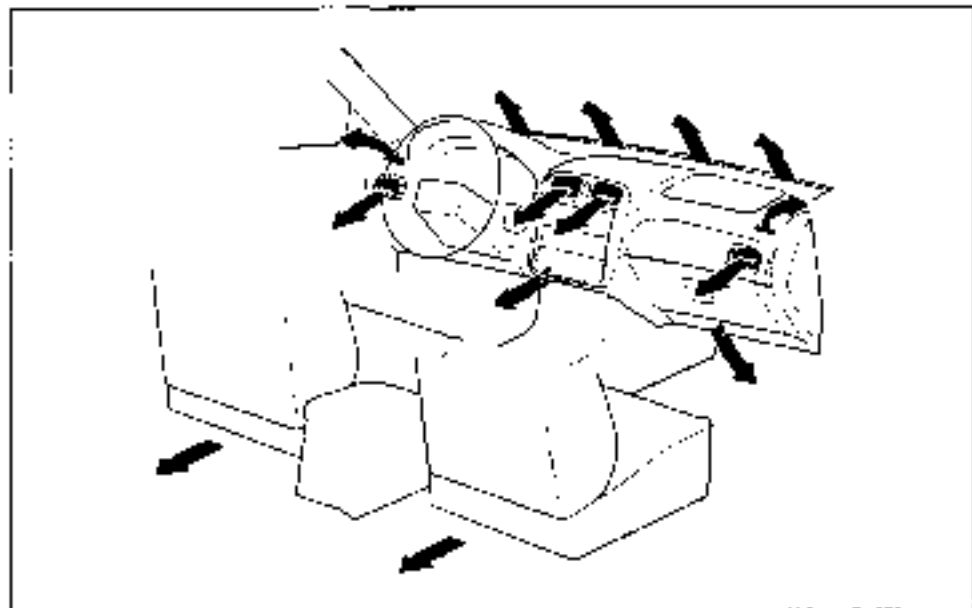
Have the air conditioner checked before the weather gets hot. Lack of refrigerant may make the air conditioner less efficient. Consult an Authorized Mazda Dealer for refrigerant inspection.

The optional air conditioner is filled with R134a, a refrigerant that will not damage the ozone layer.

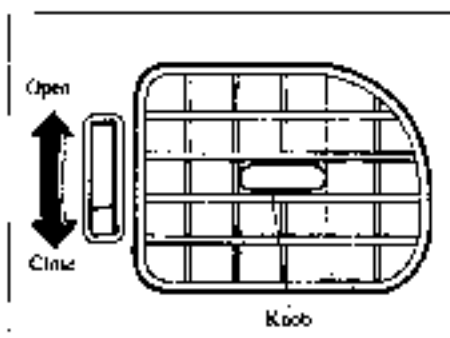
If the air conditioner is low on refrigerant or has a malfunction, consult an Authorized Mazda Dealer.

Climite Control System

Vent Operation



▼ Adjusting the Vents



Directing airflow

You can direct air flow by moving the adjustment knob.

Adjusting the amount of airflow

These vents can be opened by rotating the vertical wheels up or closed by rotating them down.

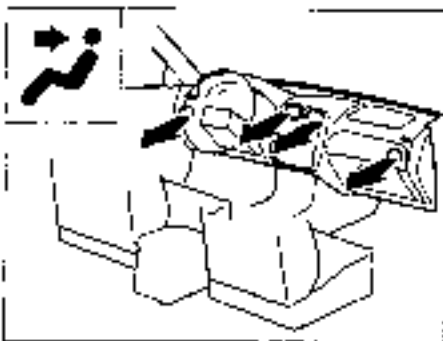
NOTE

When using the air conditioner, mist may come out from the vents. This is not a sign of trouble but a result of humid air being suddenly cooled.

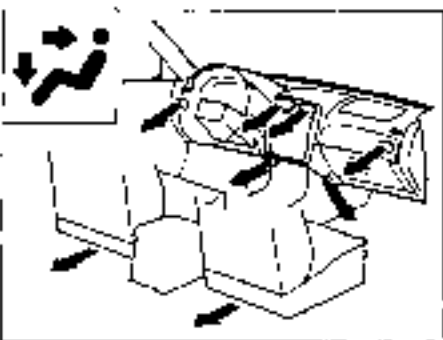
Climite Control System

▼ Selecting the Airflow Mode

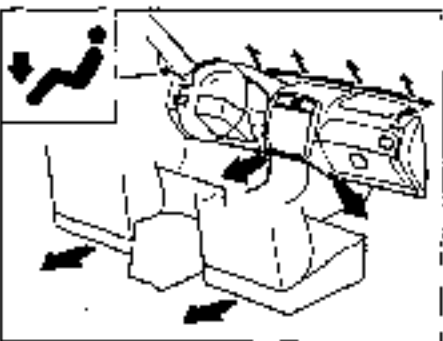
Dashboard Vents



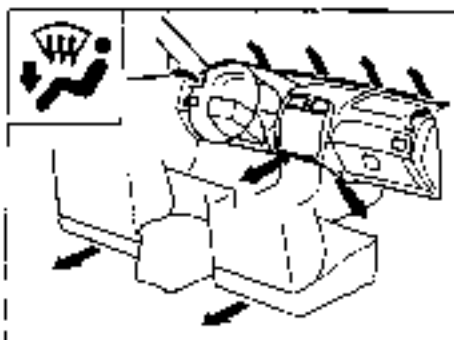
Dashboard and Floor Vents



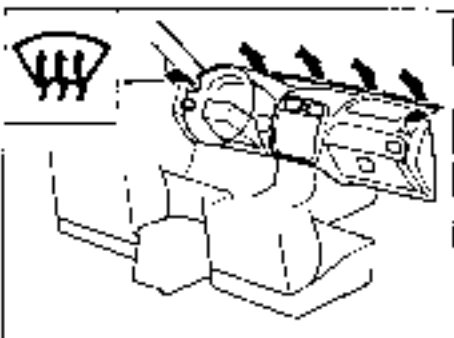
Floor Vents



Defroster and Floor Vents

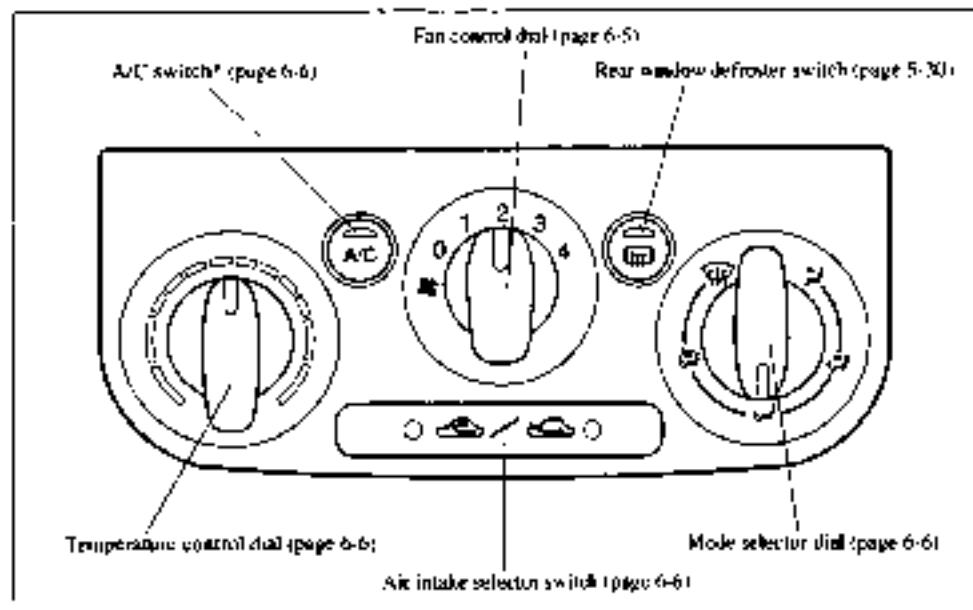


Defroster Vents

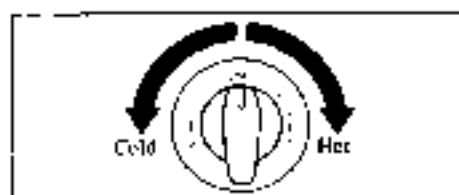


Climate Control System

Control Panel

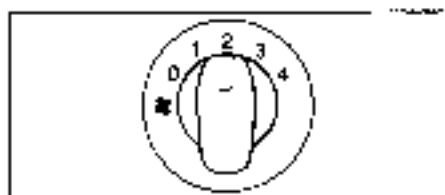


▼ Temperature control dial



This dial controls temperature. Turn it clockwise for hot and counterclockwise for cold.

▼ Fan control dial

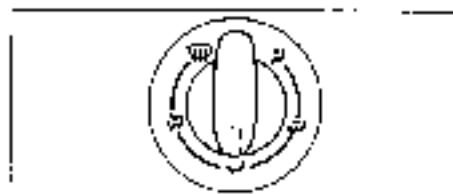


This dial allows variable fan speeds.

- 0 Fan off
- 1 —Low speed
- 2 —Medium low speed
- 3 —Medium high speed
- 4 High speed

Climite Control System

▼ Mode selector dial



Turn the mode selector dial to select airflow mode (page 6-4)

▼ A/C switch*



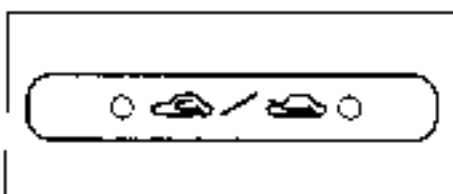
Push the switch to turn the air conditioner on. An indicator light on the switch will illuminate when the fan control dial is on.

Push the switch once again to turn the air conditioner off.



NOTE

The air conditioner may not function when the outside temperature approaches 0°C (32°F)

▼ Air intake selector switch



This switch controls the source of air entering the vehicle.

Press the switch to alternate between the  and  positions. The indicator light for the selected mode will illuminate.

It is recommended that under normal conditions the switch be kept in the outside air position.

Outside air position ()



Outside air is taken into the vehicle. Use this position for normal ventilation and heating.

Recirculated air position ()

Outside air is shut off. Air within the vehicle is recirculated.

This position can be used when driving on a dusty road or in similar conditions. It also helps to provide quicker cooling of the interior.

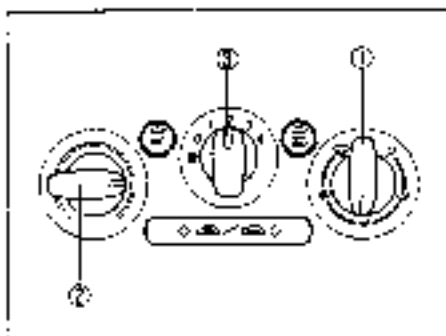
WARNING

The Recirculated Air Position:
Using the  position in cold weather will cause the glass to fog up. Your vision will be hampered, which could lead to a serious accident. Do not use the  position in cold weather.

Climite Control System

Operation

▼ Heating

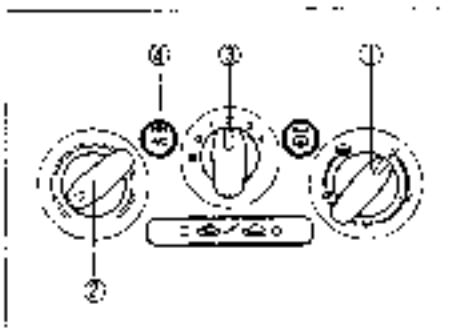


1. Set the mode selector dial to the position.
2. Set the temperature control dial to the hot position.
3. Set the fan control dial to the desired speed.

NOTE

- In the position, the outside air is automatically selected.
- If the windshield fogs up easily, set the mode selector dial to the position.
- If cooler air is desired at face level, set the mode selector dial at the position and adjust the temperature control dial to maintain maximum comfort.
- The air to the floor is warmer than air to the face (except when the temperature control dial is set at the extreme hot or cold position).

▼ Cooling (with air conditioner)*





1. Set the mode selector dial to the position.
2. Set the temperature control dial to the desired position.
3. Set the fan control dial to the desired speed.
4. Turn on the air conditioner.
5. Adjust the fan control dial and temperature control dial to maintain maximum comfort.

⚠ CAUTION

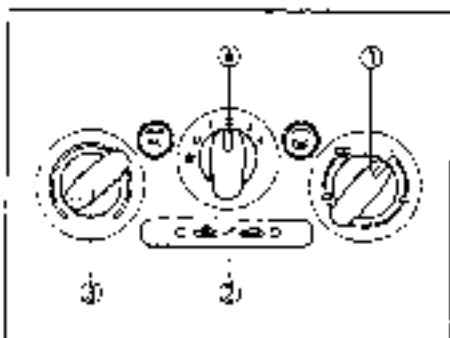
When using the air conditioner while driving up long hills or in heavy traffic, closely monitor the temperature gauge. The air conditioner may cause engine overheating. If the gauge indicates overheating, turn the air conditioner off. (Refer to Overheating on page 7-3.)



Climite Control System

NOTE

- When maximum cooling is desired, set the temperature control dial to the extreme cold position and set the air intake selector switch to the  position, then set the fan control dial to the position 4.
- If warmer air is desired at floor level, set the mode selector dial to the  position and adjust the temperature control dial to maintain maximum comfort.
- The air to the floor is warmer than air to the face (except when the temperature control dial is set at the extreme hot or cold position).

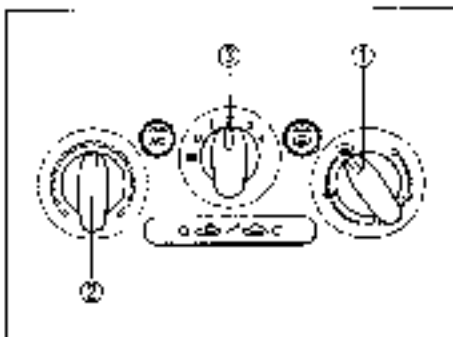
▼ Ventilation




1. Set the mode selector dial to the  position.
2. Set the air intake selector switch to the  position.
3. Set the temperature control dial to the desired position.
4. Set the fan control dial to the desired speed.





Climite Control System

▼ Windshield defrosting and defogging





1. Set the mode selector dial to the  position.
2. Set the temperature control dial to the desired position.
3. Set the fan control dial to the desired speed.

NOTE

- For maximum defrosting, set the temperature control dial to the extreme hot position and the fan control dial to position 4.
- If warm air is desired at the floor, set the mode selector dial to the  position.
- In the  or  position, the outside air is automatically selected. The air intake selector switch cannot be changed to the  position.

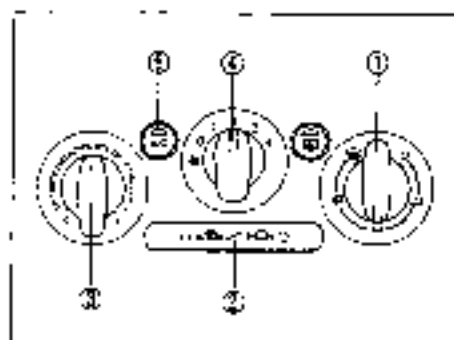
⚠ WARNING

Foggy Windshield:


Using the  position with the temperature control set to the cold position will cause the outside of the glass to fog up. Your vision will be hampered, which could lead to a serious accident. Set the temperature control to the hot or warm position when using the  position.

Climite Control System

▼ Dehumidifying (with air conditioner)*



Operate the air conditioner in cool or cold weather to help defog the windshield and side windows.

1. Set the mode selector dial to the desired position.
2. Set the air intake selector switch to the  position.
3. Set the temperature control dial to the desired position.
4. Set the fan control dial to the desired speed.
5. Turn on the air conditioner.

Antenna

The manual antenna must be raised and lowered by hand.



⚠ CAUTION

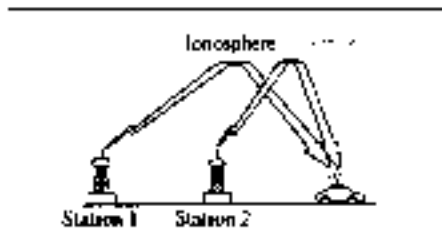
To prevent from damaging the antenna, retract it before entering a car wash facility or passing beneath a low overhead clearance.

Operating Tips for Audio System

▼ Radio Reception

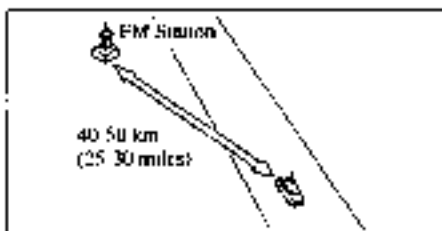
AM Characteristics

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.

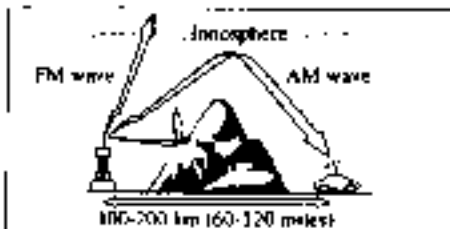


FM Characteristics

An FM broadcast range is usually about 40 - 50 km (25 - 30 miles) from the source. Because of extra coding needed to break the sound into two channels, stereo FM has even less range than monaural (non-stereo) FM.



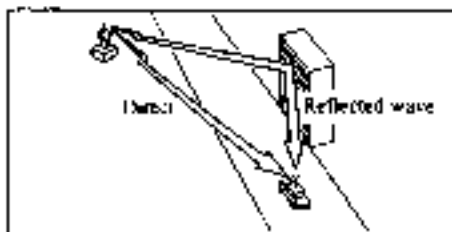
Signals from an FM transmitter are similar to beams of light because they do not bend around corners, but they do reflect. Unlike AM signals, FM signals cannot travel beyond the horizon. Therefore, FM stations cannot be received at the great distances possible with AM reception.



Atmospheric conditions can also affect FM reception. High humidity will cause poor reception. However, cloudy days may provide better reception than clear days.

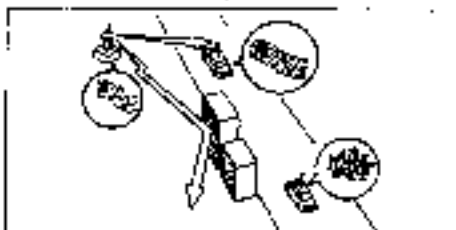
Multipath noise

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.



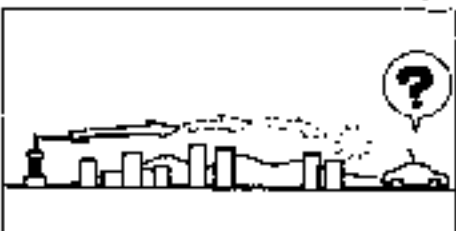
Flutter/Skip noise

Signals from an 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 may change suddenly, resulting in annoying noise.



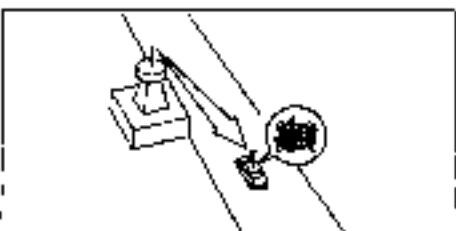
Weak signal noise

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



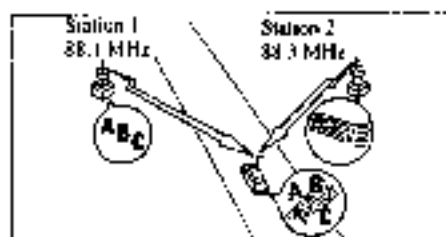
Strong signal noise

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



Station drift noise

When a vehicle reaches the area of two strong stations broadcasting at similar frequencies, the original station may be temporarily lost and the second station picked up. At this time there will be some noise from this disturbance.

**▼ Operating Tips for Cassette Tape player****Cleaning the cassette tape player**

The tape head, capstans, and pinch rollers will gather oxide residue from cassette tapes. This can cause weak or wavering sounds and damage to the cassette tapes and player. Use a good quality head-cleaning tape or a liquid cleaner cassette tape to remove it.

Should the unit not operate normally, consult an Authorized Mazda Dealer. Never attempt to repair it or insert a screwdriver or anything else.

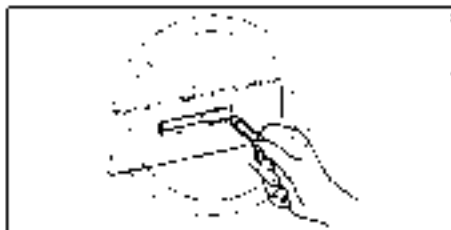
Handling the cassette tape player

The following precautions should be observed.

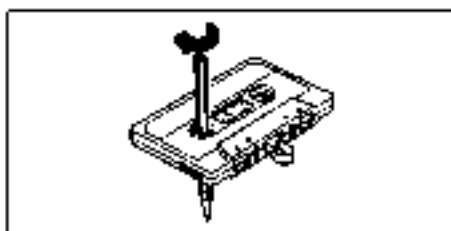
- Do not spill any liquid on the audio system.



- Do not insert any objects, other than cassette tape, into the slot.



- If the cassette tape is loose, it may produce poor sound or performance during playback. Use a pencil or something similar to remove any slack.



- Only cassette tapes that play no longer than 90 minutes should be used. Cassette tape exceeding 90 minutes are thin and may easily break.

Audio System

- Do not leave a cassette tape 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 cassette tape away from extreme heat, magnetic fields, and direct sunlight. Protect the exposed cassette tape from dirt and damage. Store cassette tapes in their original cases or other protective cases.
- Insert only cassette tapes into the slot. If objects other than cassette tapes are inserted, they may damage the player.

Operating Tips for CD Player/In-Dash CD Changer

Condensation phenomenon

Immediately after turning on the heater when the vehicle is cold, the CD or optical components (prism and lens) in the CD player/changer may become clouded with condensation. At this time, the CD will eject immediately when placed in the unit. A clouded CD can be corrected simply by wiping it with a soft cloth. Clouded optical components will clear naturally in about an hour. Wait for normal operation to return before attempting to use the unit.

Handling the CD player/in-dash CD changer

The following precautions should be observed.

- Do not spill any liquid on the audio system.



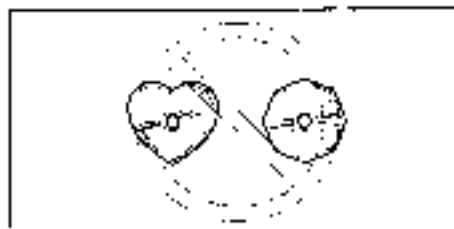
- Do not insert any objects, other than CDs, into the slot.



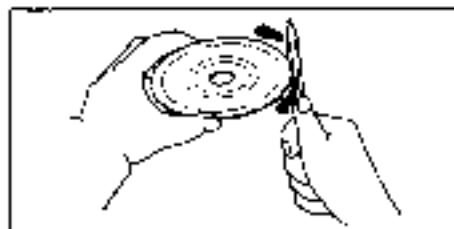
- The CD revolves at high speed within the unit. Defective (cracked or badly bent) CDs should never be used.



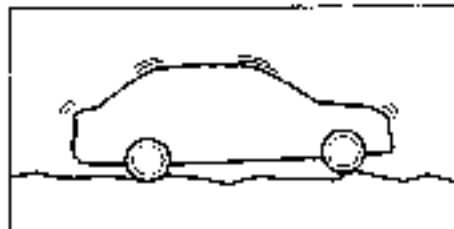
- Do not use non-conventional discs such as heart-shaped, octagonal discs, etc. The CD player/changer could be damaged.



- A new CD may have rough edges on its inner and outer perimeters. If a disc with rough edges is used, proper setting will not be possible and the CD player/changer will not play the CD. Remove the rough edges in advance by using a ball-point pen or pencil as shown above. To remove the rough edges, rub the side of the pen or pencil against the inner and outer perimeter of the CD.



- When driving over uneven surfaces, the sound will jump.



- The CD player/changer has been designed to play CDs bearing the identification logo as shown. No other discs can be played.



- Be sure never to touch the signal surface when handling the CDs. Pick up a CD by grasping the outer edge or the edge of the hole and the outer edge.



- Do not stick paper or tape on the CD. Avoid scratching the reverse side (the side without a label).
- Dust, finger smudges, and dirt can decrease the amount of light reflected from the signal surface, thus affecting sound quality. If the CD should become soiled, gently wipe it with a soft cloth from the center of the CD to the edge.
- Do not insert cleaning discs in the CD player/changer.
- Do not insert any disc with a peel-off or seal on it.

Audio System

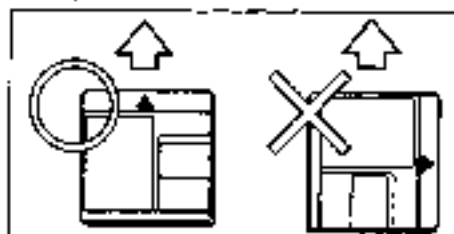
- Do not use record sprays, antistatic agents, or household spray cleaners. Volatile chemicals such as benzine and thinner can also damage the surface of the CD and must not be used. Anything that can damage, warp, or fog plastic should never be used to clean CDs.
- CDs, like traditional audio records, are made of plastic. To avoid warping, keep the CDs in their cases and do not store them where they will be exposed to direct sunlight.
- The CD player/changer ejects the CD if the CD is inserted upside down. Also dirty and/or defective CDs may be ejected.
- 8 cm (3 in) CDs and CD accessories (e.g. 8 cm disc adapter) cannot be used in the CD player/changer.

▼ Operating Tips for MiniDisc (MD) Player

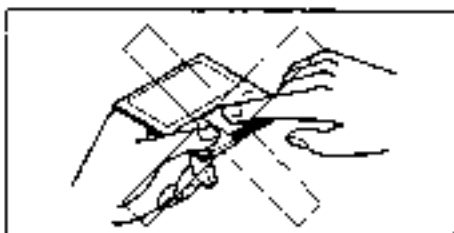
- The MD player has been designed to place MDs bearing the identification logo as shown. No other MDs can be played.



- When inserting the MD, make sure the MD label is facing up, and the MD is oriented to the insertion slot in the direction of the arrow. If not inserted correctly, the MD will be ejected, or may remain stuck in the MD deck.



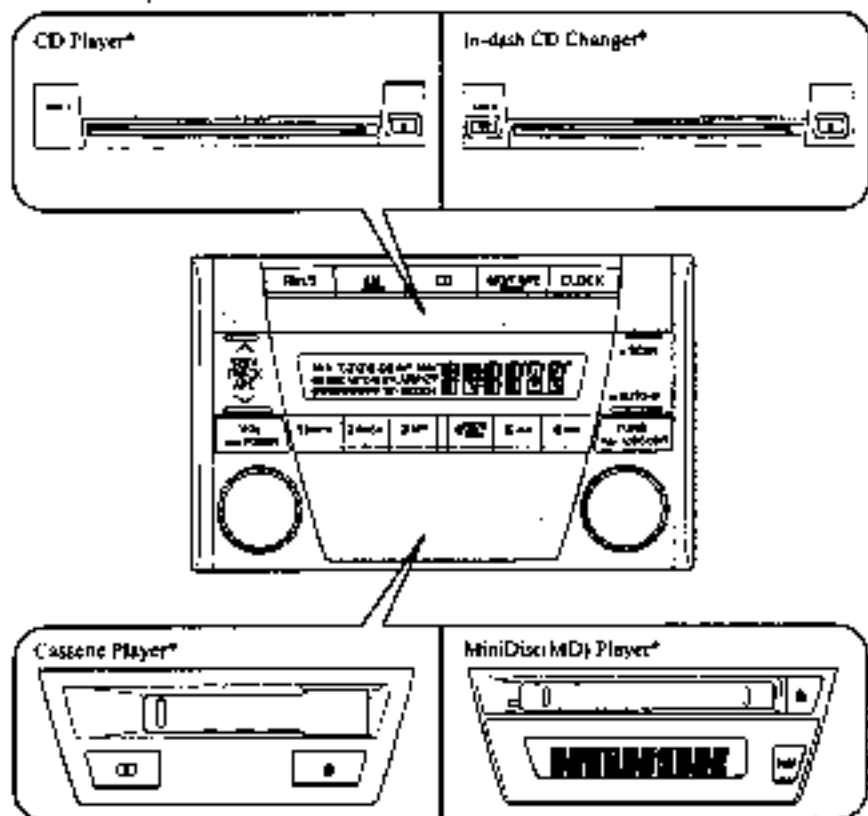
- Do not touch the internal part of the MD. If the MD shutter is slid open for no reason, it may be broken.



- Store MDs in their cases and away from direct sunlight.
- Do not insert fingers or foreign objects in the MD insertion slot as it could damage the MD deck.

Audio Set

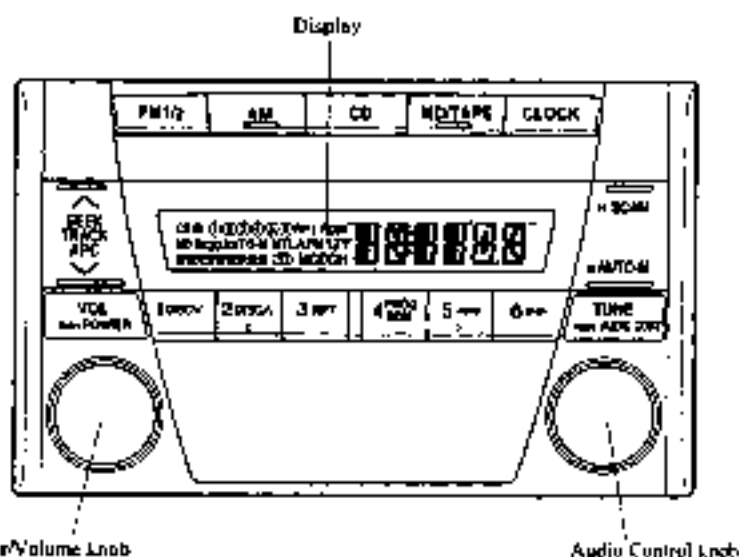
Illustration is of a representative audio unit.



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Operating the Cassette Tape Player*	page 6-24
Operating the Mini Disc (MD) Player*	page 6-26
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Audio System

▼ Power/Volume/Sound Controls



Power ON/OFF

Turn the ignition switch to the ACC or ON position.

Press the power/volume knob to turn the audio system on. Press the power/volume knob again to turn the audio system off.

Volume adjustment

To adjust the volume, turn the VOL knob.

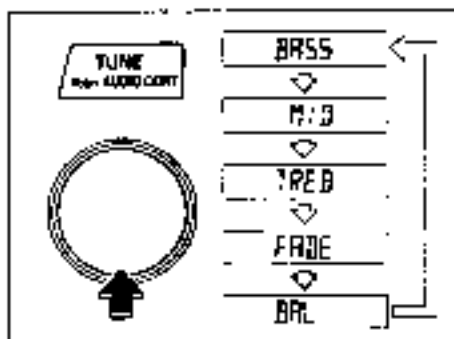
Turn the VOL knob to the right to increase volume, to the left to decrease it.

NOTE

To prevent the battery from being discharged, do not leave the audio system on for a long period when the engine is not running.

Audio sound adjustment

1. Press the AUDIO CONT knob to select bass, mid-range, treble, fade or balance control. The selected function will be indicated.



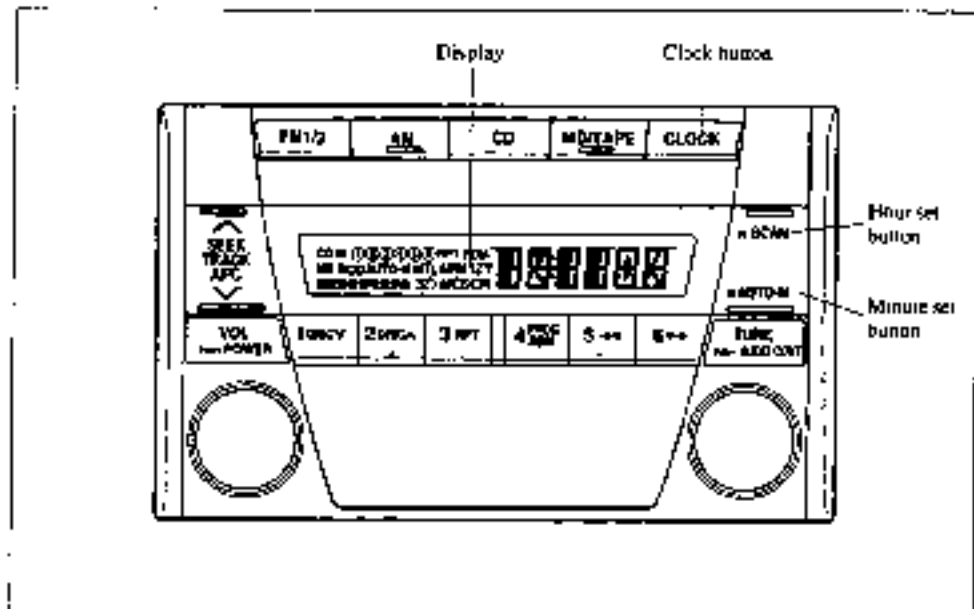
NOTE

About 5 seconds after selecting any mode, the volume function will be automatically selected. To reset bass, mid-range, treble, fade, and balance, press the audio control knob for 2 seconds. The unit will beep and "CL" will be displayed.

2. Turn the AUDIO CONT knob to adjust the selected function: bass, mid-range, treble, fade or balance.

Indicators	Function	
	Turn Left	Turn Right
BASS	Decrease bass	Increase bass
MID	Decrease mid-range	Increase mid-range
TREB	Decrease treble	Increase treble
FADE	This vehicle is not equipped with rear speakers. Adjust the audio control knob, so the level is even.	
BAL	Shift the sound to the left	Shift the sound to the Right

▼ **Clock**



Setting the time

The clock can be set at any time when the ignition switch is in the ACC or ON position.

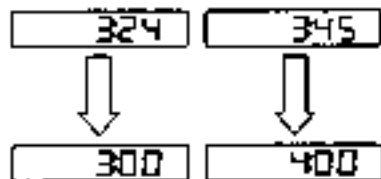
1. To adjust the time, press the clock button for about 2 seconds until a beep is heard.
2. The clock's current time will flash until the time is set.
3. To advance the hours, press the hour set button (H) to advance the minutes, press the minute set button (M) while the time is flashing.
4. Press the clock button again to start the clock.

NOTE:

If the power supply to the unit is interrupted (if the fuse blows or the vehicle's battery is disconnected), the clock will need to be reset.

NOTE

If the time is not adjusted while the clock's current time is flashing (if neither the H nor M is pressed), and the clock button is pressed a second time, the minutes will be set to 00. If the clock's current time setting is within the latter part of the hour (from 30 to 59 min), the hour setting will automatically advance one hour.



Changing the display mode

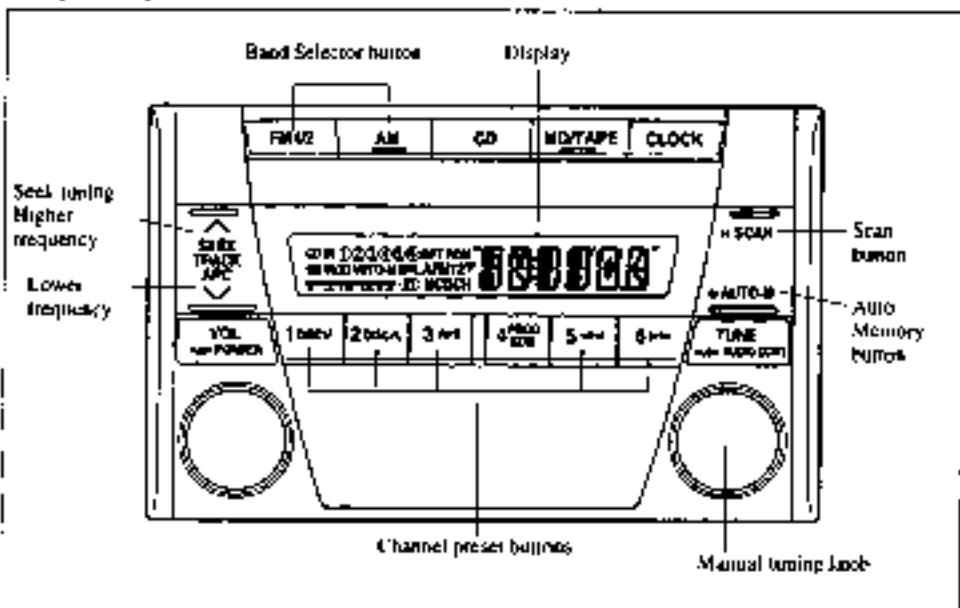
The display on the unit can be changed by pressing the CLOCK button. This alternates the display between time and audio. When the clock mode has been selected, the time will be displayed.

NOTE

If audio operation is selected while the time mode is on, the selected audio mode will be displayed for ten seconds, then the display will revert to the time mode.

Audio System

▼ Operating the Radio



Radio ON

Press the band selector button (AM or FM/2) to turn the radio on.

Band selection

Choose AM by pressing the AM button and FM by pressing the FM/2 button. The selected mode will be indicated. If FM stereo is being received, "ST" will be displayed.

NOTE

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

Tuning

The radio has the following tuning methods: Manual, Seek, Scan, Preset channel, and Auto memory tuning. The easiest way to tune stations is to set them on preset channels.

NOTE

If the power supply is interrupted (fuse blows or the battery is disconnected), the preset channels will be canceled.

Manual tuning

Turning the manual tuning knob (TUNE) will change to a higher or lower frequency.

Seek tuning

Pressing the SEEK button will cause the tuner to seek a higher or lower frequency automatically.

NOTE

If you continue to press and hold the button, the frequency will continue changing without stopping.

Scan tuning

Press the scan button to automatically sample strong stations. Scanning stops at each station for about 5 seconds. To hold a station, merely press the scan button again during this interval.

Preset channel tuning

The six preset channels can be used to store 6 AM and 12 FM stations.

1. To set a channel first select AM, FM1, or FM2. Tune to the station you want.
2. Depress a channel preset button for about 2 seconds until a beep is heard. The preset channel number and station frequency will be displayed. The station is now held in the memory.
3. Repeat this operation for the other stations and bands you want to store. To tune one in the memory, select AM, FM1, or FM2 and then press its channel preset button. The station frequency and the channel number will be displayed.

NOTE

If the power supply is interrupted (fuse blows or the battery is disconnected), the preset channels will be canceled.

Auto memory tuning

This is especially useful when driving in an area where the local stations are not known. Additional AM/FM stations can be stored without disturbing the previously set channels.

Press and hold the AUTO-M button for about 2 seconds until a beep is heard; the system will automatically scan and temporarily store the six strongest stations of each selected band in that area.

After scanning is completed, the strongest station will be tuned and its frequency displayed.

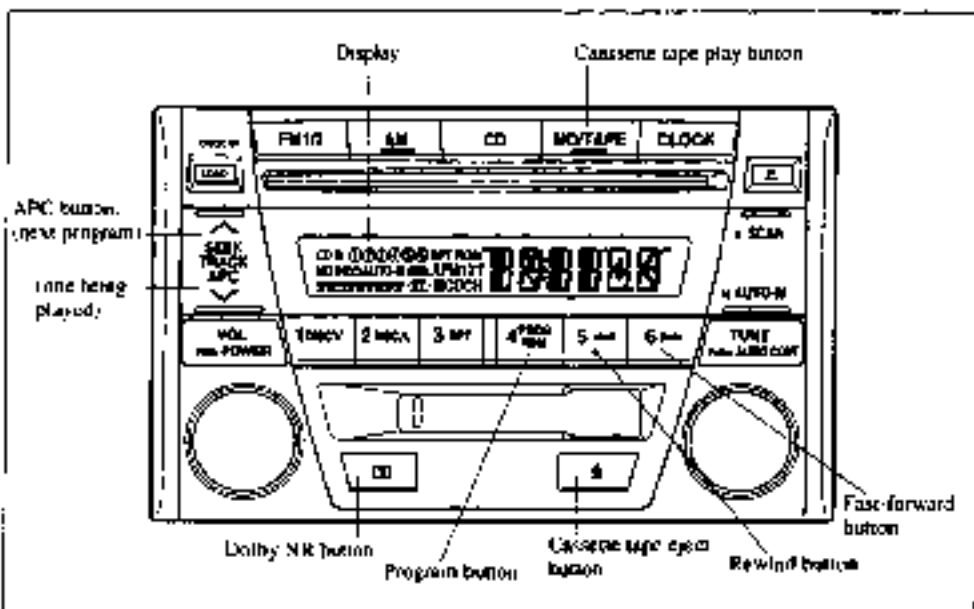
Press and release the AUTO-M button to recall stations from the auto-stored stations. One stored station will be selected each time; its frequency and channel number will be displayed.

NOTE

If no stations can be tuned after scanning operations, "A" will be displayed.

Audio System

▼ Operating the Cassette Tape Player*



Cassette tape insert

Insert the cassette tape into the slot (open edge to the right) and cassette tape will begin play and "TAPE" will be displayed. At the end of the cassette tape, the unit automatically reverses cassette tape play. When \wedge is lit, the cassette tape's top side is playing. When \vee is lit, the bottom side is on.

NOTE

When a metal tape is inserted, the player will automatically compensate for it and "MTL" will be displayed.

Playing

Press the cassette tape play button (MD/TAPE) to start playing when a cassette tape is in the unit. If there isn't a cassette tape in the unit when the cassette tape play button (MD/TAPE) is pressed, "NO TAPE" will flash on and off in sequence.

Dolby noise reduction

When using a tape with Dolby NR[®], push the \square button. The \square symbol will be displayed. To play a tape 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 \square are trademarks of Dolby Laboratories Licensing Corporation.

Fast forward/Rewind

Press the fast-forward button (⏩) to fast-forward.

Press the rewind button (⏮) to rewind.
To stop this operation and play the cassette tape, press the button again.

NOTE

When the cassette tape ends during fast forward or rewind, it automatically stops and starts playing.

Reversing

Press the program button (PROC) to change cassette tape-playing direction.

NOTE

When the cassette tape ends, the unit automatically reverses play.

APC (Automatic Program Control)

APC is used to find the beginning of either the next program or the one being played.

Press the APC button (⏪) to the beginning of the next selection.
Press the APC button (⏩) to the beginning of the one being played.
To stop this operation and play the cassette tape, press the button again.

If APC detects 15 seconds of blank space it will automatically advance the tape to the next selection.

NOTE

APC may not operate properly if

- A tape was recorded at a low level.
- A tape has long, silent intervals.
- A tape is a live recording.
- A tape has very short intervals of less than 3 seconds.

Repeat play

This operation makes it possible to listen to a selection repeatedly.

Press the repeat button (RPT) during play.
The current selection playing will be repeated ("RPT" will be displayed).
Press the repeat button once again to cancel repeat play.

NOTE

RPT may not operate properly if

- A tape was recorded at a low level.
- A tape has long, silent intervals.
- A tape is a live recording.
- A tape has very short intervals of less than 3 seconds.

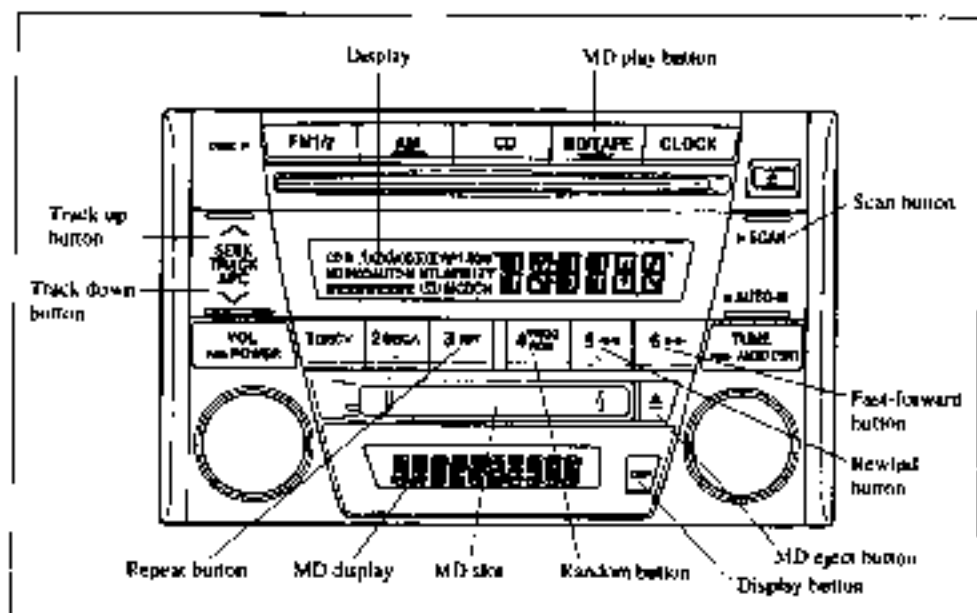
Ejecting the cassette tape

Press the cassette tape eject button (⏏) to eject the cassette tape.

NOTE

The cassette tape can be ejected when the ignition switch is in the OFF position.

▼ **Operating the Mini Disc (MD) Player***



Inserting the MD

Insert the MD, label-side up with the arrow pointed to the slot. The auto-loading mechanism will set the MD and begin play. There will be a short lapse before play begins while the player reads the digital signals on the MD.

Playing

Press the MD play button (MD/TAPE) to start playing when a MD is in the unit.

Ejecting the MD

Press the MD eject button (▲) to eject the MD.

Fast-forward/Reverse

Press and hold the fast-forward button (⏩) to advance through a track at high speed.

Press and hold the reverse button (⏪) to reverse through a track at high speed.

Track search

Press the track up button (▲) once to skip forward to the beginning of the next track.

Press the track down button (▼) once to skip back to the beginning of the current track.

Music scan

This feature helps to find a program by playing about the first 10 seconds of each track.

Press the scan button (SCAN) during play to start scan play operation (the track number will flash).

Press the scan button (SCAN) once again to cancel scan play.

NOTE

If the unit is left in scan, normal play will resume where scan was selected.

Repeat play

This feature makes it possible to listen to a selection repeatedly.

Press the repeat button (RPT) during play. The current selection will be repeated ("RPT" will be displayed).

Press the repeat button (RPT) once again to cancel repeat play.

Random play

This feature allows the MD player to randomly select the order of the songs.

Press the random button (RDM) during play. The next selection will be randomly selected ("RDM" will be displayed).

Press the random button (RDM) once again to cancel random play.

Changing the MD display

To change the MD display during MD play, press and hold the display button (DISP) for about half a second to advance through each of the following displays:

→ Song title → Disc title → No display

NOTE

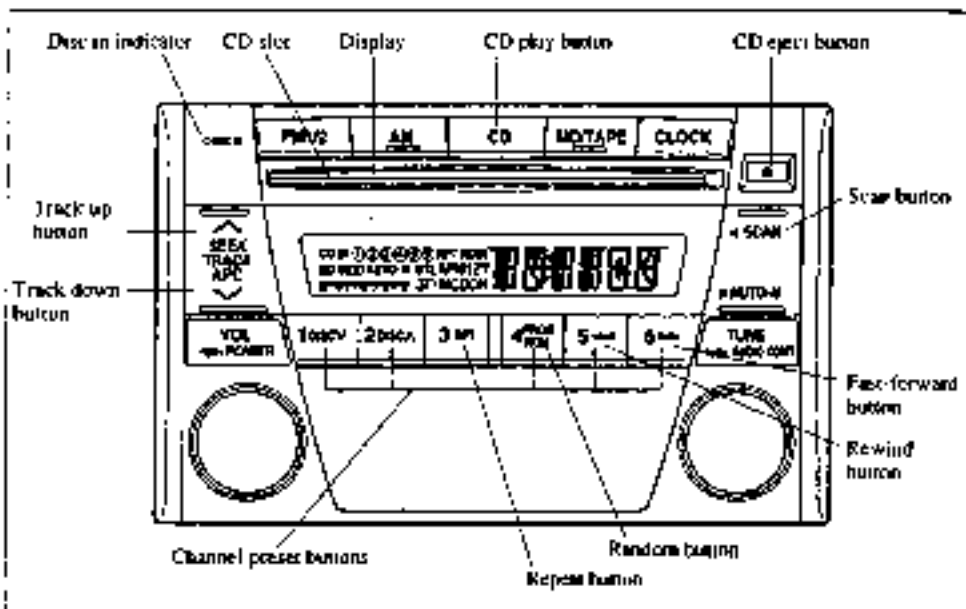
If there is no song or disc title recorded on the MD, "NO TITLE" will be displayed.

Long disc or song titles

When disc or song titles exceed 10 letters or numerals, press the display button (DISP) to display the remaining part of the title.

Audio System

▼ Operating the Compact Disc (CD) Player*/ CD Changer* (Except In-Dash)



The CD changer can be connected to the main audio unit and operated by the controls on the main unit. Regarding operation of the CD changer itself, please refer to the instructions attached to the changer.

Inserting the CD (CD player)

Insert the CD into the slot, label-side up. The auto-loading mechanism will set the CD and begin play. There will be a short lapse before play begins while the player reads the digital signals on the CD. The disc-in indicator will illuminate and the track number will be displayed.

Playing

Press the CD play button (CD) to start playing when a CD is in the unit.

Ejecting the CD (CD player)

Press the CD eject button (▲) to eject the CD.

Fast-forward/Reverse

Press and hold the fast-forward button (▶▶) to advance through a track at high speed.

Press and hold the reverse button (◀◀) to reverse through a track at high speed.

Track search

Press the track up button (▲) once to skip forward to the beginning of the next track.

Press the track down button (▼) once to skip back to the beginning of the current track.

Disc search (CD changer*)

Press the disc up button (DISCA) to skip forward to the beginning of the next CD.

Press the disc down button (DISCV) to skip back to the beginning of the previous CD.

Music scan

This feature helps to find a program by playing about the first 10 seconds of each track.

Press the SCAN button during play to start scan play operation (the track number will flash).

Press the SCAN button once again to cancel scan play.

NOTE

If the unit is left in scan, normal play will resume where scan was selected.

Repeat play

This feature makes it possible to listen to a selection repeatedly.

Press the repeat button (RPT) during play. The current selection will be repeated ("RPT" will be displayed).

Press the repeat button (RPT) once again to cancel repeat play.

Random play

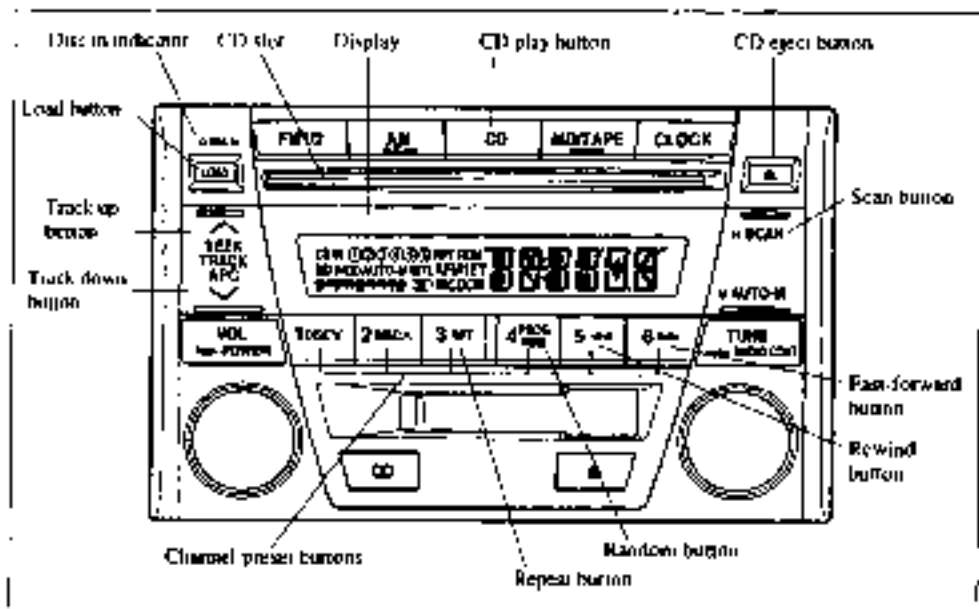
This feature allows the CD player to randomly select the order of the songs.

Press the random button (RDM) during play. The next selection will be randomly selected ("RDM" will be displayed).

Press the random button (RDM) once again to cancel random play.

Interior Comfort Audio System

▼ Operating the In-Dash CD Changer*



Inserting the CD

The CD must be label-side up when inserting. The auto-loading mechanism will set the CD and begin play. There will be a short lapse before play begins while the player reads the digital signals on the CD.

The disc number and the track number will be displayed.

NOTE

A CD cannot be inserted while the display reads "WAIT". A beeping sound can be heard during this waiting time. Simultaneously pressing the power/volume knob and the load button for about 2 seconds will turn this beeping sound ON or OFF.

Normal insertion

1. Press the **LOAD** button.
2. When "In" is displayed, insert the CD.

Inserting CDs into desired tray number

1. Press and hold the **LOAD** button for about 2 seconds until a beep is heard.
2. Press the channel preset button for the desired tray number within 5 seconds after the beep is heard.
3. When "In" is displayed, insert the CD.

NOTE

The CD can not be inserted to the desired tray number if the number is already occupied.

Multiple insertion

1. Press and hold the load button for about 2 seconds until a beep is heard.
2. When "In" is displayed, insert the CD.
3. When "In" is displayed again, insert the next CD.

NOTE

The first-inserted CD will be played automatically when:

- No CD is inserted within 15 seconds after "In" is displayed.
- The CD trays are full.

Ejecting the CD

Normal ejection

1. Press the CD eject button.
The disc number and "OUT" will be displayed.
2. Pull out the CD.

NOTE

When the CD is ejected during play, the next CD will be played automatically.

Ejecting CDs from desired tray number

1. Press and hold the CD eject button for about 2 seconds until a beep is heard.
2. Press the channel preset button for the desired CD number within 5 seconds after the beep is heard.
3. Pull out the CD.

Multiple ejection

1. Press and hold the CD eject button for about 2 seconds until a beep is heard.
2. Wait 5 seconds or press the CD eject button again within 5 seconds after the beep is heard.
3. Pull out the CD, then the next CD will be ejected.

NOTE

- CDs will be ejected starting with the one with the lowest number.
- All CDs in the tray will be ejected continuously.
- CDs can be ejected when the ignition switch is off. Press and hold the CD eject button for about 2 seconds and all CDs will eject.

Playing

Press the CD play button (CD) to start playing when a CD is in the unit.

Fast-forward/Reverse

Press and hold the fast-forward button (⏩) to advance through a track at high speed.

Press and hold the reverse button (⏪) to reverse through a track at high speed.

Track search

Press the track up button (⏴) once to skip forward to the beginning of the next track.

Press the track down button (⏵) once to skip back to the beginning of the current track.

Audio System

Disc search

Press the disc up button (**DISCA**) to skip forward to the beginning of the next CD.
Press the disc down button (**DISCV**) to skip back to the beginning of the previous CD.

Music scan

This feature helps to find a program by playing about the first 10 seconds of each track.

Press the scan button during play to start scan play operation (the track number will flash).

Press the scan button once again to cancel scan play.

NOTE
If the unit is left in scan, normal play will resume where scan was selected

Repeat play

This feature makes it possible to listen to a selection repeatedly.

Press the repeat button (**RPT**) during play. The current selection will be repeated ("RPT" will be displayed).

Press the repeat button (**RPT**) once again to cancel repeat play.

Random play

This feature allows the CD player to randomly select the order of the songs.

Press the random button (**RDM**) during play. The next selection will be randomly selected ("RDM" will be displayed).

Press the random button (**RDM**) once again to cancel random play.

▼ Error Indications

If you see an error indication on the display, find the cause in the chart. If you cannot clear the error indication, take the vehicle to an Authorized Mazda Dealer.

Indication	Cause	Solution
CHECK MD	MD is inserted upside down	Insert the MD properly. If the code does not disappear, consult an Authorized Mazda Dealer
	MD is defective	Check the MD for scratches and/or soiling
CHECK CD	CD is inserted upside down	Insert the CD properly. If the code does not disappear, consult an Authorized Mazda Dealer
	CD is defective	Check the CD for scratches and/or soiling

Audio System

Safety Certification

This CD player is made and tested to meet exacting safety standards. It meets FCC requirements and complies with safety performance standards of the U.S. Department of Health and Human Services.

CAUTION

- This CD player should not be adjusted or repaired by anyone except qualified service personnel.
If servicing required, contact an Authorized Mazda dealer.
- Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure. Never operate the CD player with the top case of the unit removed.
- Changes or modifications not expressly approved by Mazda may void the user's authority to operate this equipment.

NOTE

For CD player section:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1)

This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

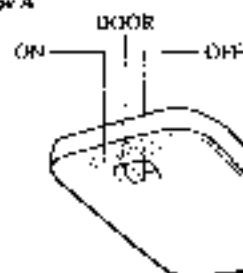
NOTE

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

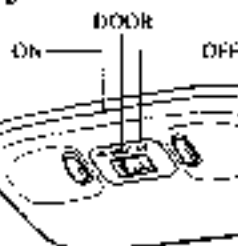
However, there is no guarantee that interference will not occur in a particular installation.

Interior Light

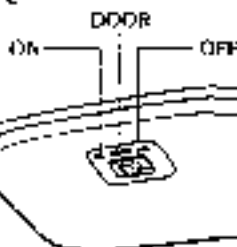
Type A



Type B



Type C



OFF	Light off
DOOR	Light on when any door is open
ON	Light ON

▼ Illuminated Entry System

When the switch is in the DOOR position, the interior light comes on for:

- about 30 seconds after the driver's door is unlocked and the ignition key is removed.
- about 15 seconds after the key is removed from the ignition

NOTE

The light also goes out when:

- the ignition switch is turned to the ON position.
- the driver's door is locked

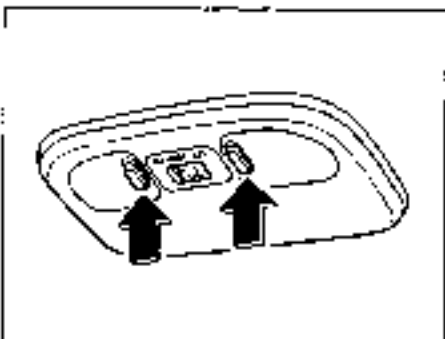
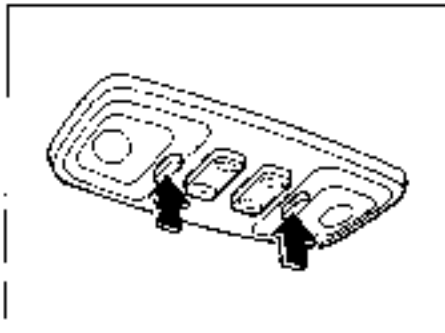
When the interior light comes on by opening a door, it goes out about 15 seconds after the door is closed.

Even if the door is not closed, the light goes out after about 5 minutes

Interior Equipment

▼ Map Lights*

The map lights are switched on or off by pressing the switches.



Lighter

To operate the lighter, press it in and release it. When ready for use, it automatically pops out.

If the engine is off, the ignition switch must be in the ACC or ON position for the lighter to operate.



⚠ CAUTION

- Don't hold the lighter in because it will overheat.
- Don't use the lighter socket for plug-in accessories such as shavers and coffee pots. They may damage it or cause electrical failure. Use only a genuine Mazda lighter.
- If the lighter doesn't pop out within 30 seconds, remove it to prevent overheating.

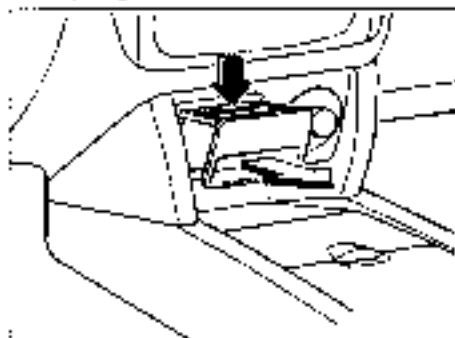
Interior Equipment

Ashtray

⚠ CAUTION

Don't use ashtrays for trash. You might start a fire.

To remove, open and push down on the lock spring.



Storage Compartments

⚠ WARNINGOpen Storage Box:

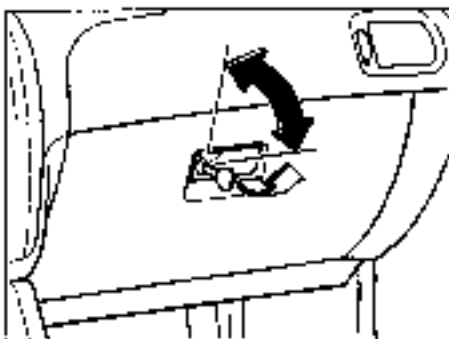
Driving with a storage box open is dangerous. To reduce the possibility of injury in an accident or a sudden stop, keep the storage boxes closed when driving.

In hot weather, don't leave combustible materials or objects which will deform in extreme heat such as lighters and glasses in the vehicle.

▼ Glove Box

To open the glove box, pull the latch toward you.

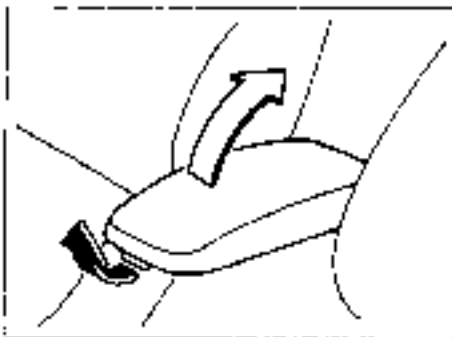
The door has a lock. Insert the key and turn it clockwise to lock, counterclockwise to unlock.



Interior Equipment

▼ Center Console

To open, pull the release catch.



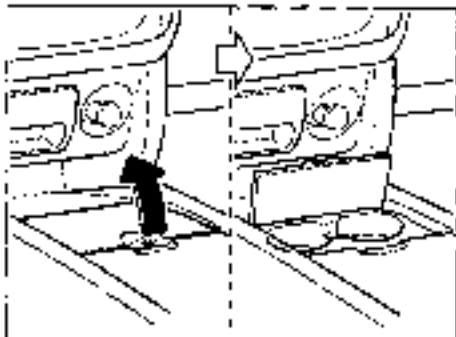
▼ Cup Holder

⚠ WARNING

Using the Cup Holder:

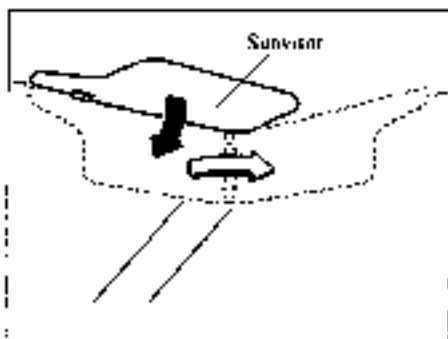
Using the cup holder to hold hot liquids while the vehicle is moving is dangerous. If the contents spill, you could be scalded. Never use the cup holder to hold hot liquids while the vehicle is moving.

To use the cup holder, open the lid.



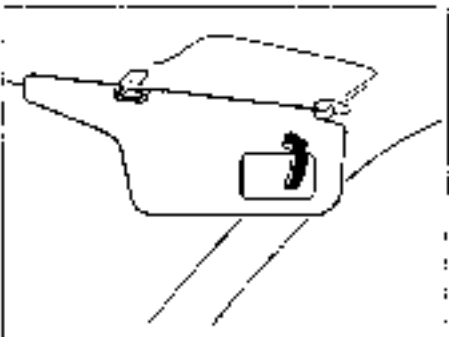
SUNVISORS

When you need a sunvisor, lower it for use in front or swing it to the side.



▼ Vanity Mirrors

To use the vanity mirror, lower the sunvisor and pull the mirror cover up.



Helpful information on what to do in an emergency.

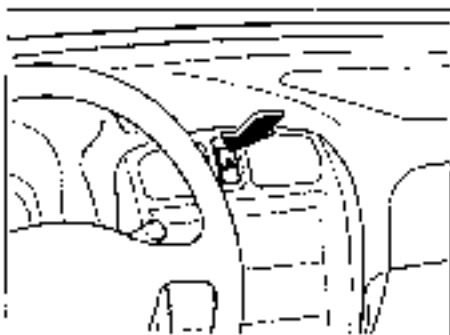
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Parking in an Emergency

Parking in an Emergency

The hazard warning lights should always be used when you stop on or near a roadway.

The hazard warning lights warn other drivers that your vehicle is a traffic hazard and that they must take extreme caution when near it.

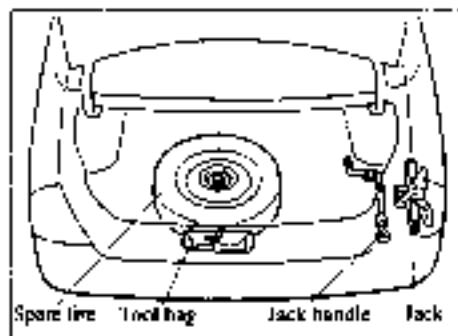


Depress the hazard warning switch and all four turn signals will flash at once.

NOTE

- The turn signals don't work when the hazard warning lights are on.
- Check local regulations about the use of hazard warning lights while the vehicle is being towed. They may forbid it.

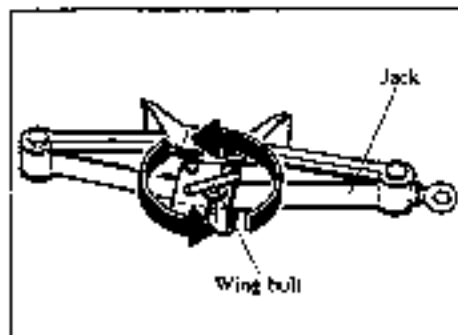
Tire and Tool Storage



▼ Jack

To remove the jack

Turn the wing bolt counterclockwise.



To secure the jack

Perform the removal procedure in reverse.

▼ Spare Tire

Your Mazda has a temporary spare tire. It's lighter and smaller than a conventional tire, is designed only for emergency use and should be used only for VERY short periods. Temporary spares should NEVER be used for long drives or extended periods.

⚠ WARNING

Driving with a Temporary Spare Tire on Ice or Snow:

Driving with a spare tire on the front (driving) wheels on ice or snow is dangerous. Handling will be affected. You could lose control of the vehicle and have an accident. Put the spare tire on the rear axle and move a regular tire to the front.

⚠ CAUTION

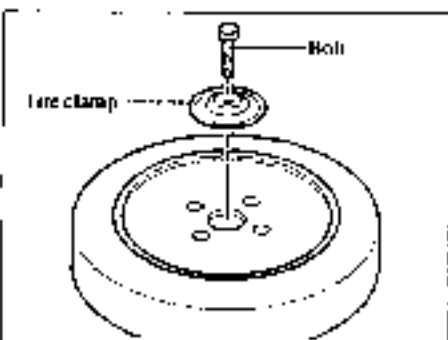
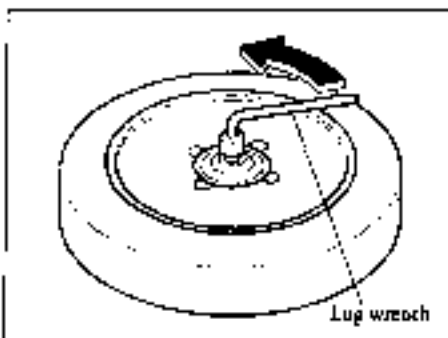
To avoid damage to the temporary spare or to the vehicle, observe the following:

- Don't exceed 80 km/h (50 mph).
- Avoid driving over obstacles. Also, don't drive through an automatic car wash. This tire's diameter is smaller than a conventional tire's, so the ground clearance is reduced about 25 mm (1 in).
- Don't use a tire chain on this tire because it won't fit properly.
- Don't use your temporary spare on any other vehicle; it has been designed only for your Mazda.
- Use only one temporary spare tire on your vehicle at the same time.

Flat Tire

To remove the spare tire

Turn the tire hold-down bolt counterclockwise with the lug wrench



Changing a Flat Tire

NOTE

If the following occurs while driving, it could indicate a flat tire.

- Steering becomes difficult.
- The vehicle begins to vibrate excessively.
- The vehicle pulls in one direction.

If you have a flat tire, drive slowly to a level spot that is well off the road and out of the way of traffic to change the tire. Stopping in traffic or on the shoulder of a busy road is dangerous.

⚠ WARNING

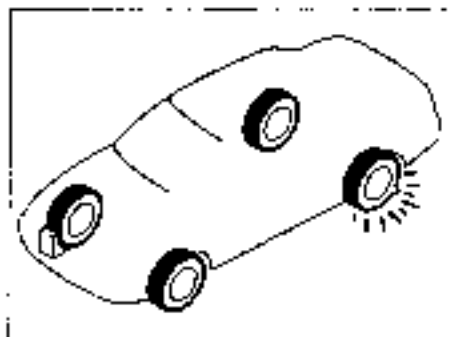
Jacking a Vehicle:

Changing a tire is dangerous if not done properly. The vehicle can slip off the jack and seriously injure someone.

Be sure to follow the directions for changing a tire, and never get under a vehicle that is supported only by a jack.

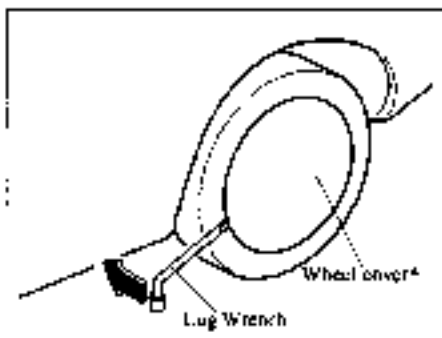
Flat Tire

1. Park on a level surface off the right-of-way and firmly set the parking brake.
2. Put a vehicle with an automatic transaxle in park (P), a manual transaxle in reverse (R), and turn off the engine.
3. Turn on the hazard warning flasher.
4. Have everyone get out of the vehicle and away from the vehicle and traffic.
5. Remove the jack, jack handle, lug wrench, and spare tire.
6. Block the wheel diagonally opposite the flat tire. When blocking a front wheel, place the block in front of the tire. When blocking a rear wheel, place the block behind the tire.



▼ Removing a Flat Tire

1. Pry off the wheel cover* with the beveled end of the lug wrench.

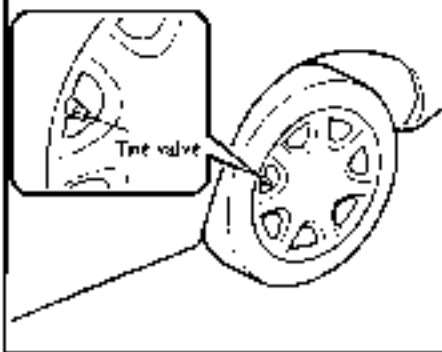


NOTE

Force the end of the wrench firmly between wheel and cover, or removal will be difficult.

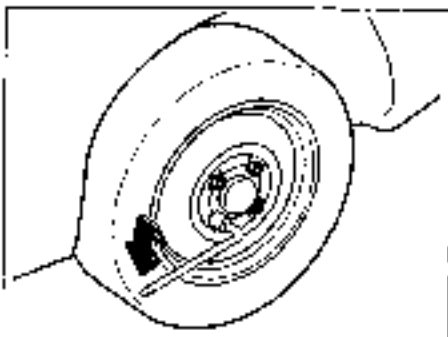
⚠ CAUTION

When installing the wheel cover, align the notch with the tire valve.

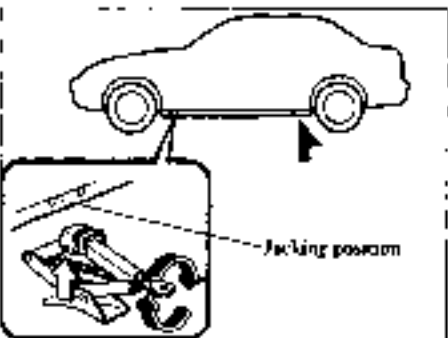


Flat Tire

- Loosen the lug nuts by turning them counterclockwise one turn each, but don't remove any until the tire has been raised off the ground.



- Place the jack under the jacking position closest to the tire being changed.



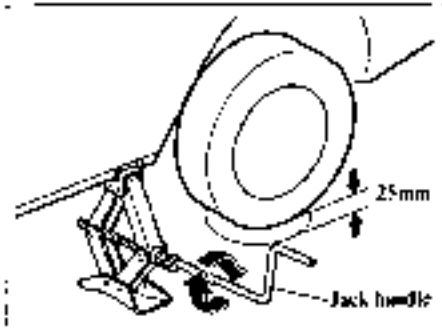
⚠ WARNING

Incorrect Jacking Position:
Attempting to jack the vehicle in positions other than those recommended in this manual is dangerous. The vehicle could slip off the jack and seriously injure or even kill someone. Use only the front and rear jacking positions recommended in this manual.

Improper Jack:
Using a jack that isn't designed for your Mazda could be dangerous. The vehicle could slip off the jack and seriously injure someone. Use only the jack provided with your Mazda.

Placing Objects Under the Jack:
Jacking the vehicle with an object under the jack is dangerous. The jack could slip and someone could be seriously injured by the jack or the falling vehicle. Never place objects under the jack.

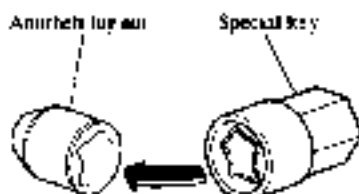
4. Insert the jack handle into the jack and turn it clockwise until the tire just clears the ground, less than 25 mm (1 in). Before removing the lug nuts, make sure your Mazda is firmly in position and that it cannot slip or move.



5. Remove the lug nuts by turning them counterclockwise; then remove the wheel.

▼ Locking Lug Nuts*

If your vehicle has optional anti-theft wheel lug nuts, one on each wheel will lock and you must use a special key to unlock them. This key is attached to the lug wrench and is stored with the spare tire. Register them with the lock manufacturer by filling out the card provided in the glove box and mailing it in the accompanying envelope. If you lose your key, consult an Authorized Mazda Dealer or use the lock manufacturer's order form, which is with the registration card.



To remove an anti-theft lug nut

1. Get the key for the locking lug nut.
2. Place it on top of the nut, and be sure to hold the key square to it. If you hold the key at an angle, you may damage both key and nut. Don't use a power impact wrench.
3. Place the lug wrench on top of the key and apply pressure. Turn the wrench counterclockwise.

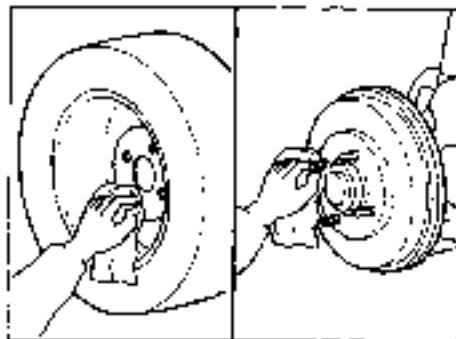
Flat Tire

To replace the nut

1. Place the key on top of the nut.
2. Place the lug wrench on top of the key, apply pressure, and turn it clockwise.

▼ Mounting the Spare Tire

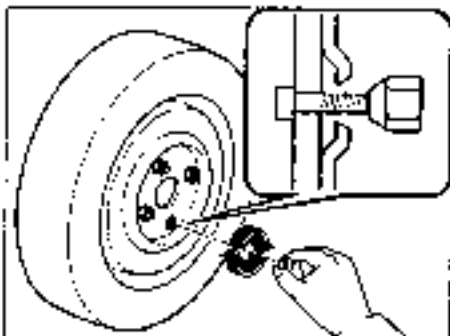
1. Remove dirt and grime from the mounting surfaces of the wheel and hub, including the hub bolts, with a cloth.



⚠ WARNING

Removing Dirt and Grime from Wheels, Hubs and Hub Bolts When changing or replacing a tire, not removing dirt and grime from the mounting surfaces of the wheel, hub and hub bolts is dangerous. The tire nuts could loosen while driving and cause the tire to come off, resulting in an accident. Make sure the mounting surfaces of the wheel, hub and hub nuts are clean before changing or replacing tires.

2. Mount the spare tire.
3. Install the lug nuts with the beveled edge inward; tighten them by hand.

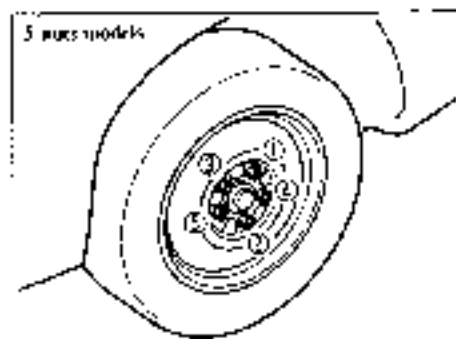
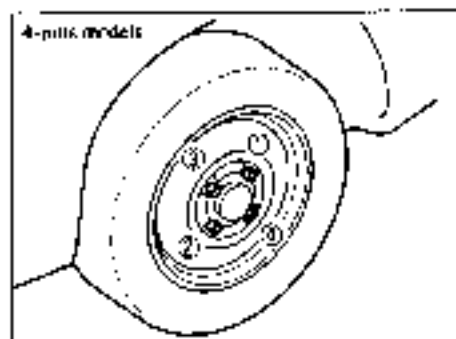


⚠ WARNING

Applying Oil and Grease to Tire Nuts and Bolts:

Applying oil or grease to wheel nuts and bolts is dangerous. The tire nuts could loosen while driving and cause the tire to come off, resulting in an accident. In addition, tire nuts and bolts could be damaged if tightened more than necessary. Do not apply oil or grease to tire nuts and bolts and do not tighten the tire nuts beyond the recommended tightening torque.

4. Turn the jack handle counterclockwise and lower the vehicle. Use the lug wrench to tighten the nuts in the order shown.



If you're unsure of how tight the nuts should be, have them inspected at a service station. The specified torque is 9ft to 12ft N-m (9.0 to 12.0 kgf·m, 65 to 87 ft·lb).

⚠ WARNING

Loose Lug Nuts:

Improperly or loosely tightened lug nuts are dangerous. The wheel could wobble or come off. This could result in loss of vehicle control and cause a serious accident. Always securely and correctly tighten the lug nuts.

Metric Studs and Lug Nuts:

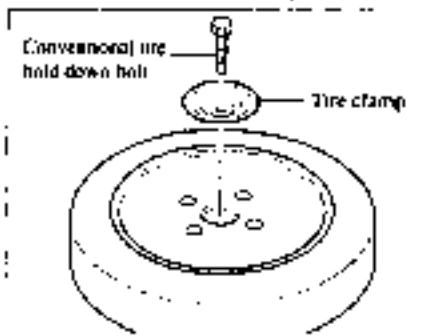
Because the wheel studs and lug nuts on your Mazda have metric threads, using a non-metric nut is dangerous. On a metric stud, it would not secure the wheel and would damage the stud, which could cause the wheel to slip off and cause an accident. Be sure to reinstall the same nuts you removed or replace them with metric nuts of the same configuration.

Incorrect Tire Air Pressure:

Driving on tires with incorrect air pressure is dangerous. Tires with incorrect pressure could affect handling and result in an accident. Don't drive with any tires that have incorrect air pressure. When you check the regular tire's air pressure, check the spare tire, too.

Flat Tire

5. Store the damaged tire, using the conventional tire hold-down bolt supplied in the tool bag to hold it in place. Turn the tire clamp upside down from the temporary spare tire position. Repair the damaged tire and replace the spare with it as soon as possible.



NOTE

To prevent the jack, jack handle, and tool bag from rattling, store them properly.

Overheating

If the temperature gauge indicates overheating, you experience power loss, or you hear a loud knocking or pinging noise, the engine is probably too hot.

If this happens:

1. Drive safely to the side of the road and park off the right-of-way.
2. Put a vehicle with an automatic transaxle in park (P), a manual transaxle in neutral. Apply the parking brake.
3. Turn off the air conditioner.

⚠ WARNING

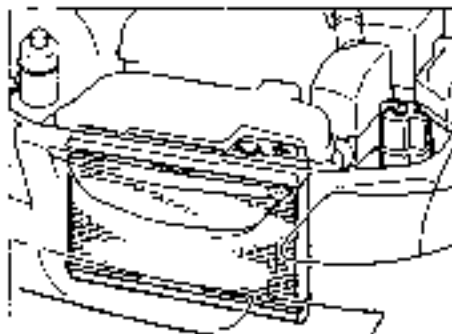
Steam from Overheated Engine: Steam from an overheated engine is dangerous. The escaping steam could seriously burn you. Open the hood ONLY after steam is no longer escaping from the engine.

4. Check whether coolant or steam is escaping from under the hood or from the engine compartment.

If steam is coming from the engine compartment, don't go near the front of the vehicle. Stop the engine. Then turn the ignition switch to the ON position without starting the engine. The radiator cooling fans will start to cool the engine.

If neither coolant nor steam is escaping, open the hood and idle the engine until it cools. If this doesn't lower the temperature, stop the engine and let it cool.

5. Check the coolant level. If it's low, look for leaks in the radiator hoses and connections, heater hoses and connections, radiator, and water pump. If you find a leak or other damage, or if coolant is still leaking, stop the engine and call an Authorized Mazda Dealer.



If you find no problems, the engine is cool, and no leaks are obvious, carefully add coolant as required (page 9-12).

Overheating

⚠ WARNING

Cooling System Caps:

When the engine and radiator are hot, scalding coolant and steam may shoot out under pressure and cause serious injury. Don't remove either cooling system cap when the engine and radiator are hot.

⚠ CAUTION

If the engine continues to overheat or frequently overheats, have the cooling system inspected. The engine could be seriously damaged unless repairs are made.

Starting a flooded engine

If the engine fails to start, it may be flooded (excessive fuel in the engine).

Follow this procedure.

1. Depress the accelerator all the way and hold it there.
2. Turn the ignition switch to the START position and hold it there—for up to 10 seconds. If the engine starts, release the key and accelerator immediately because the engine will suddenly rev up.
3. If the engine fails to start, crank it without using the accelerator—for up to 10 seconds.

Jump-Starting

Jump-starting is dangerous if done incorrectly. So follow the procedure carefully. If you feel unsure about jump-starting, we strongly recommend that you have a competent service technician do the work.

WARNING

Battery-Related Explosion:
Flames and sparks near open battery cells are dangerous. Hydrogen gas, produced during normal battery operation, could ignite and cause the battery to explode. An exploding battery can cause serious burns and injuries. Keep all flames, including cigarettes, and sparks away from open battery cells.

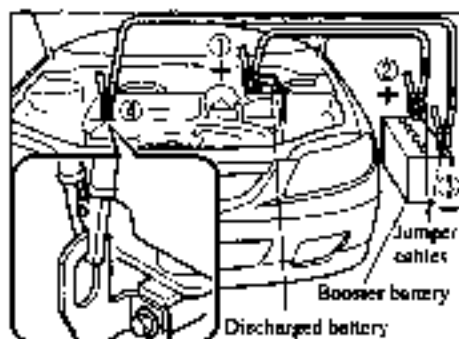
Frozen Battery or one with a Low Fluid Level:
Jump-starting a frozen battery or one with a low fluid level is dangerous. It may rupture or explode, causing serious injury. Don't jump-start a frozen battery or one with a low fluid level.

CAUTION

Use only a 12 V booster system. You can damage a 12 V starter, ignition system, and other electrical parts beyond repair with a 24 V power supply (two 12 V batteries in series or a 24 V motor generator set).

Emergency Starting

1. Make sure the booster battery is 12 V and that its negative terminal is grounded.
2. If the booster battery is in another vehicle, don't allow the vehicles to touch. Turn off the engine of the vehicle with the booster battery and all unnecessary electrical loads in both vehicles.
3. Connect the jumper cables in the exact sequence as in the illustration.
 - (1) Connect one end of a cable to the positive terminal on the discharged battery (1).
 - (2) Attach the other end to the positive terminal on the booster battery (2).
 - (3) Connect one end of the other cable to the negative terminal of the booster battery (3).
 - (4) Connect the other end to a solid, stationary, exposed metallic point (for example, the engine hanger) away from the discharged battery (4).



⚠ WARNING

Connecting to Negative Terminal:
Connecting the end of the second cable to the negative (—) terminal of the discharged battery is dangerous. A spark could cause the gas around the battery to explode and injure someone. Connect the cable to a point away from the battery.

Connecting Jumper Cable to a Moving Part:
Connecting a jumper cable near or to a moving part is dangerous. The cable could get caught when the engine starts and cause serious injury. Never connect a jumper cable to or near any part that moves.

4. Start the engine of the booster vehicle and run it a few minutes. Then start the engine of the other vehicle.
5. When finished, carefully disconnect the cables in the reverse order described in Step 3.

Push-Starting

You can't start a vehicle with an automatic transaxle by pushing it.

WARNING

Towing a Vehicle to Start It:
Towing a vehicle to start it is dangerous. The vehicle being towed could surge forward when its engine starts, causing the two vehicles to collide. The occupants could be injured. Never tow a vehicle to start it.

CAUTION

You shouldn't push-start a vehicle that has a manual transaxle. It can damage the emission control system.

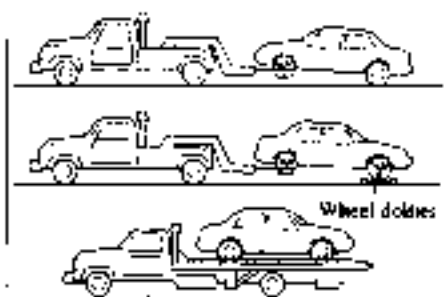
Emergency Towing

Towing Description

We recommend that towing be done only by an Authorized Mazda Dealer or a commercial tow-truck service.

Proper lifting and towing are necessary to prevent damage to the vehicle. State and local laws must be followed.

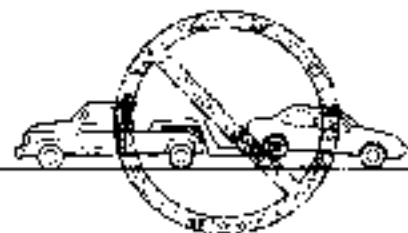
A towed vehicle usually should have its front wheels off the ground. If excessive damage or other conditions prevent this, use wheel dollies.



When towing with the rear wheels on the ground, release the parking brake.

⚠ CAUTION

Don't tow the vehicle backward with driving wheels on the ground. This may cause internal damage to the transaxle.



⚠ CAUTION

Don't tow with sling-type equipment. This could damage your vehicle. Use wheel-lift or flatbed equipment.

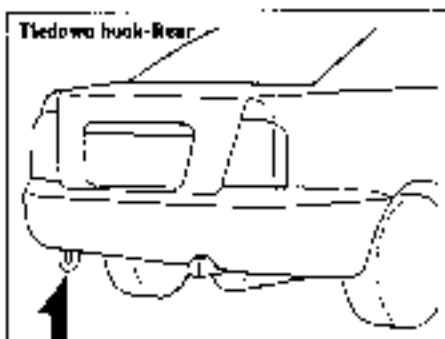


Towing/Tiedown Hooks

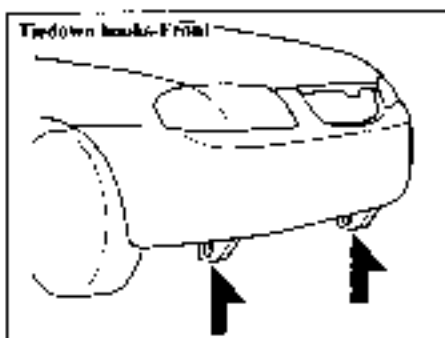
⚠ CAUTION

- The towing hook should be used only in an emergency (to get the vehicle out of a ditch or a snow bank, for example).
- When using the towing hook, always pull the cable or chain in a straight direction with respect to the hook. Apply no sideways force.
- Don't use the hook loops under the front and rear for towing. They are designed **ONLY** for tying down the vehicle when it's being transported. Using them for towing will damage the bumper.

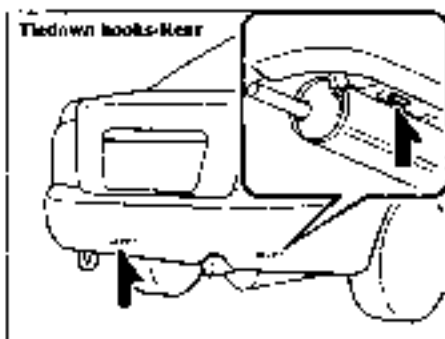
▼ Towing hook-Rear



▼ Tiedown hooks-Front



▼ Tiedown hooks-Rear





8

Appearance Care

Taking care of your Mazda, inside and out.

Exterior Care	8- 2
How to Minimize Environmental Paint Damage	8- 2
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Interior Care	8- 7
Interior Care	8- 7

How to Minimize Environmental Paint Damage

The paintwork on your Mazda represents the latest technical developments in composition and methods of application.

Environmental hazards, however, can harm the paint's protective properties, if proper care is not taken.

Here are some examples of possible damage, with tips on how to prevent them.

▼ Etching Caused by Acid Rain or Industrial Fallout

Occurrence

Industrial pollutants and vehicle emissions drift into the air and mix with rain or dew to form acids. These acids can settle on a vehicle's finish. As the water evaporates, the acid becomes concentrated and can damage the finish. And the longer the acid remains on the surface, the greater the chance is for damage.

Prevention

It is necessary to wash and wax your vehicle to preserve its finish according to the instructions in this section. These steps should be taken immediately after you suspect that acid rain has settled on your vehicle's finish.

▼ Damage Caused by Bird Droppings, Insects, or Tree Sap

Occurrence

Bird droppings contain acids. If these aren't removed they can eat away the clear and color base coat of the vehicle's paintwork.

When insects stick to the paint surface and decompose, corrosive compounds form. These can erode the clear and color base coat of the vehicle's paintwork if they are not removed.

Tree sap will harden and adhere permanently to the paint finish. If you scratch the sap off while it is hard, some vehicle paint could come off with it.

Prevention

It is necessary to have your Mazda washed and waxed to preserve its finish according to the instructions in this section. This should be done as soon as possible.

Bird droppings can be removed with a soft sponge and water. If you are traveling and these are not available, a moistened tissue may also take care of the problem. The cleaned area should be waxed according to the instructions in this section.

Insects and tree sap are best removed with a soft sponge and water or a commercially available chemical cleaner.

Another method is to cover the affected area with dampened newspaper for one to two hours. After removing the newspaper, rinse off the loosened debris with water.

▼ Water Marks**Occurrence**

Rain, fog, dew, and even tap water can contain harmful minerals such as salt and lime. If moisture containing these minerals settles on the vehicle and evaporates, the minerals will concentrate and harden to form white rings. The rings can damage your vehicle's finish.

Prevention

It is necessary to wash and wax your vehicle to preserve its finish according to the instructions in this section. These steps should be taken immediately after you find water marks on your vehicle's finish.

▼ Paint Chipping**Occurrence**

Paint chipping occurs when gravel is thrown in the air by another vehicle's tires hits your vehicle.

How to avoid paint chipping

Keeping a safe distance between you and the vehicle ahead reduces the chances of having your paint chipped by flying gravel.

NOTE

- The paint chipping zone varies with the speed of the vehicle. For example, when traveling at 90 km/h (56 mph), the paint chipping zone is 50 m (164 ft).
- In low temperatures a vehicle's finish hardens. This increases the chance of paint chipping.
- Chipped paint can lead to rust forming on your Mazda. Before this happens, repair the damage by using Mazda touch-up paint according to the instructions in this section. Failure to repair the affected area could lead to serious rusting and expensive repairs.

Exterior Care

Exterior Care

Follow all label and container directions when using a chemical cleaner or polish. Read all warnings and cautions.

▼ Maintaining the Finish

Washing

To help protect the finish from rust and deterioration, wash your Mazda thoroughly and frequently, at least once a month, with lukewarm or cold water.

If the vehicle is washed improperly, the paint surface could be scratched. Here are some examples of how scratching could occur.

Scratches occur on the paint surface when:

- The vehicle is washed without first rinsing off dirt and other foreign matter.
- The vehicle is washed with a rough, dry, or dirty cloth.
- The vehicle is washed at a car wash that uses brushes that are dirty or too stiff.
- Cleansers or wax containing abrasives are used.

NOTE

- Mazda is not responsible for scratches caused by automatic car washes or improper washing.
- Scratches are more noticeable on vehicles with darker paint finishes.

To minimize scratches on the vehicle's paint finish:

- Rinse off any dirt or other foreign matter using lukewarm or cold water before washing.
- Use plenty of lukewarm or cold water and a soft cloth when washing the vehicle. Do not use a nylon cloth.
- Rub gently when washing or drying the vehicle.
- Take your vehicle only to a car wash that keeps its brushes well maintained.
- Don't use abrasive cleansers or wax that contain abrasives.

⚠ CAUTION

- Don't use steel wool, abrasive cleaners, or strong detergents containing highly alkaline or caustic agents on chrome-plated or anodized aluminum parts. This may damage the protective coating; also, cleaners and detergents may discolor or deteriorate the paint.
- To prevent damaging the antenna, retract it before entering a car wash facility or passing beneath a low overhead clearance.

Pay special attention to removing salt, dirt, mud, and other foreign material from the underside of the wings, and make sure the drain holes in the lower edges of the doors and rocker panels are clean.

Insects, tar, tree sap, bird droppings, industrial fallout, and similar deposits can damage the finish if not removed immediately. When prompt washing with plain water is ineffective, use a mild soap made for use on vehicles.

Thoroughly rinse off all soap with lukewarm or cold water. Don't allow soap to dry on the finish.

After washing the vehicle, dry it with a clean chamois to prevent water spots from forming.

WARNING

Driving with Wet Brakes:
Driving with wet brakes is dangerous. Increased stopping distance or the vehicle pulling to one side when braking could result in a serious accident. Light braking will indicate whether the brakes have been affected. Dry the brakes by driving very slowly and applying the brakes lightly until brake performance is normal.

Waxing

Your vehicle needs to be waxed when water no longer beads on the finish. Always wash and dry the vehicle before waxing it. In addition to the vehicle body, wax the metal trim to maintain its luster.

1. Use wax which contains no abrasives. Waxes containing abrasive will remove paint and could damage bright metal parts.
2. Use a good grade of natural wax for metallic, mica, and solid colors.
3. When waxing, coat evenly with the sponge supplied or a soft cloth.
4. Wipe off the wax with a soft cloth.

NOTE

A spot remover to remove oil, tar, and similar materials will usually also take off the wax. Rewax these areas even if the rest of the vehicle doesn't need it.

▼ Repairing Damage to the Finish

Deep scratches or chips on the finish should be repaired promptly. Exposed metal quickly rusts and can lead to major repairs.

CAUTION

If your Mazda is damaged and needs metal parts repaired or replaced, make sure the body shop applies anti-corrosion materials to all parts, both repaired and new. This will prevent them from rusting.

▼ Bright-Metal Maintenance

- Use tar remover to remove road tar and insects. Never do this with a knife or similar tool.
- To prevent corrosion on bright-metal surfaces, apply wax or chrome preservative and rub it to a high luster.
- During cold weather or in coastal areas, cover bright-metal parts with a coating of wax or preservative heavier than usual. It would also help to coat them with noncorrosive petroleum jelly or some other protective compound.

Exterior Care

▼ Underbody Maintenance

Road chemicals and salt used for ice and snow removal and solvents used for dust control may collect on the underbody. If not removed, they will speed up rusting and deterioration of such underbody parts as fuel lines, frame, floor pan, and exhaust system, even though these parts may be coated with anti-corrosive material.

Thoroughly flush the underbody and wheel housings with lukewarm (or cold) water at the end of each winter. Try also to do this every month.

Pay special attention to these areas because they easily hide mud and dirt. **It will do more harm than good to wet down the road grime without removing it.**

The lower edges of doors, rocker panels, and frame members have drain holes that should not be clogged. Water trapped there will cause rusting.

⚠ WARNING

Driving with Wet Brakes:
Driving with wet brakes is dangerous. Increased stopping distance or the vehicle pulling to one side when braking could result in a serious accident. Light braking will indicate whether the brakes have been affected. Dry the brakes by driving very slowly and applying the brakes lightly until brake performance is normal.

▼ Aluminum Wheel Maintenance

A protective coating is provided over the aluminum wheels. Special care is needed to protect this coating.

NOTE

- Don't use a wire brush or any abrasive cleaner, polishing compound, or solvent on aluminum wheels. They may damage the coating.
- Only use a mild soap or neutral detergent and always use a sponge or soft cloth to clean the wheels. Rinse thoroughly with lukewarm or cold water. Also, be sure to clean the wheels after driving on dusty or salted roads. This helps prevent corrosion.
- Avoid washing your vehicle in an automatic car wash that uses high-speed or hard brushes.
- If your aluminum wheels lose luster, wax the wheels.

Interior Care

▼ Dashboard Precautions

Prevent caustic solutions such as perfume and cosmetic oils from contacting the dashboard. They'll damage and discolor it. If these solutions get on the dashboard, wipe them off immediately.

▼ Cleaning the Upholstery and Interior Trim

Vinyl

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

Leather

Real leather isn't uniform and may have scars, scratches, and wrinkles. Clean it with a leather cleaner or mild soap.

Wipe it with a **damp** soft cloth; then dry and buff it with a **dry** soft cloth.

Fabric

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

To keep the fabric looking clean and fresh, take care of it. Otherwise its color will be affected, it can be stained easily, and its fire-resistance may be reduced.

⚠ CAUTION

Use only recommended cleaners and procedures. Others may affect appearance and fire-resistance.

▼ Cleaning the Lap/Shoulder Belt Webbing

Clean the webbing with a mild soap solution recommended for upholstery or carpets. Follow instructions. Don't bleach or dye the webbing; this may weaken it.

⚠ WARNING

***Damaged Seat Belts.**
Using damaged seat belts is dangerous. In a collision, damaged belts cannot provide adequate protection. Have your Authorized Mazda Dealer replace damaged belts immediately.*

▼ Cleaning the Window Interiors

If the windows become covered with an oily, greasy, or waxy film, clean them with glass cleaner. Follow the directions on the container.

⚠ CAUTION

Don't scrape or scratch the inside of the rear window. You may damage the rear window defroster grid.



9

Maintenance

How to keep your vehicle in top driving condition.

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Introduction

Introduction

Be extremely careful to prevent injury to yourself and others and damage to your vehicle when using this manual for inspection and maintenance.

If you're unsure about any procedure it describes, we strongly urge you to have a reliable and qualified service shop perform the work, preferably an Authorized Mazda Dealer.

Factory-trained Mazda technicians and genuine Mazda parts are best for your vehicle. Without this expertise and the parts that have been designed and made especially for your Mazda, inadequate, incomplete, and insufficient servicing may result in problems. This could lead to vehicle damage or an accident and injuries.

For expert advice and quality service, consult an Authorized Mazda Dealer.

The owner should retain evidence that proper maintenance has been performed as prescribed.

A claim against a warranty will not qualify if it results from lack of maintenance and not from defective material or authorized Mazda workmanship.

Any auto repair shop using parts equivalent to your Mazda's original equipment may perform maintenance.

But we recommend that it always be done by an Authorized Mazda Dealer using genuine Mazda parts.

Scheduled Maintenance

Follow Schedule 1 if the vehicle is operated mainly where none of the following conditions apply.

If any do apply, follow Schedule 2 (Puerto Rico residents follow Schedule 2).

- Repeated short-distance driving
- Driving in dusty conditions
- Driving with extended use of brakes
- Driving in areas where salt or other corrosive materials are used
- Driving on rough or muddy roads
- Extended periods of idling or low-speed operation
- Driving for long periods in cold temperatures or extremely humid climates

NOTE

After the described period, continue to follow the described maintenance at the recommended intervals.

Scheduled Maintenance

▼ Schedule 1

1. Inspect and repair, clean, adjust, or replace if necessary.
 (Oil-permeated air filter cannot be cleaned using the air-blow method.)
 I: Lubricate
 R: Replace

ITEM	MAINTENANCE INTERVAL	Number of months or kilometers (miles), whichever comes first								
		Months	6	12	18	24	30	36	42	48
		>1000 Km (x1000 Miles)	12	24	36	48	60	72	84	96
Engine valve clearance									I	
Engine timing belt		Inspect at 96,000km (60,000 miles) Replace every 108,000km (105,000 miles)								
Drive belt (straps)					I				I	
Engine oil		R	R	R	R	R	R	R	R	
Engine oil filter		R	R	R	R	R	R	R	R	
Cooling system					I				I	
Engine coolant		Replace at first 72,000 km (45,000 miles) or 36 months; after that, every 48,000 km (30,000 miles) or 24 months								
Idle speed					I				I	
Air filter					R				R	
Fuel lines and hoses*1					I				I	
Hose and tubes for emission*1									I	
Spark plugs					R				R	
Brake lines, hoses and connections					I				I	
Disc brakes									I	
Drum brakes					I				I	
Steering operation and linkages					I				I	
Front suspension ball joints					I				I	
Driveshaft dust boot					I				I	
Bolts and nuts on chassis and body					I				I	
Exhaust system bear shields					I				I	
All locks and hinges		L	L	L	L	L	L	L	L	
Refrigerant amount (if installed)			I		I		I		I	
Compressor operation (if installed)			I		I		I		I	

*1 According to state and federal regulations, failure to perform maintenance on these items will not void your emissions warranties. However, Mazda recommends that all maintenance services be performed at the recommended time or kilometers (mileage) period to ensure long-term reliability.

Scheduled Maintenance

Schedule 2

- I: Inspect and report, clean, adjust, or replace if necessary.
 (Oil-permeated air filter cannot be cleaned using the air-blow method)
 L: Lubricate
 R: Replace

ITEM	MAINTENANCE INTERVAL	Number of months or miles (kilometers), whichever comes first												
		Months	4	8	12	16	20	24	28	32	36	40	44	48
		x1000 Km (x1000 Miles)	4	8	12	16	20	24	28	32	36	40	44	48
Engine valve clearance													I	
Engine timing belt ^{1,2}		Inspect at 96,000 km (60,000 miles) Replace every 168,000 km (105,000 miles)												
Drive belts (serpentine)							I						I	
Engine oil	Except Puerto Rico	R	R	R	R	R	R	R	R	R	R	R	R	
	Puerto Rico	Replace every 5,000 km (3,000 miles) or 3 months												
Engine oil filter		R	R	R	R	R	R	R	R	R	R	R	R	
Cooling system							I						I	
Engine coolant		Replace at first 72,000 km (45,000 miles) or 36 months; after that, every 48,000 km (30,000 miles) or 24 months												
Engine coolant level		I	I	I	I	I	I	I	I	I	I	I	I	
Idle speed													I	
Air filter				I ¹			R			I ¹			R	
Fuel lines and hoses ¹							I						I	
Hoses and tubes (for emission ¹)													I	
Spark plugs							R						R	
Function of all lights		I	I	I	I	I	I	I	I	I	I	I	I	
Brake lines, hoses and connections							I						I	
Brake and clutch fluid level		I	I	I	I	I	I	I	I	I	I	I	I	
Disc brakes				I									I	
Drum brakes							I						I	
Tire inflation pressure and tire wear		I	I	I	I	I	I	I	I	I	I	I	I	
Steering operation and linkage ¹							I						I	
Power steering fluid level		I	I	I	I	I	I	I	I	I	I	I	I	
Front suspension ball joints							I						I	
Driveshaft dust boots							I						I	
Bolts and nuts on chassis and body				I						I			I	
Exhaust system heat shields							I						I	
All locks and hinges		L	L	L	L	L	L	L	L	L	L	L	L	
Washer fluid level		I	I	I	I	I	I	I	I	I	I	I	I	
Refrigerant amount (if installed)				I									I	
Compressor operation (if installed)				I			I			I			I	

*1 According to state and federal regulations, failure to perform maintenance on these items will not void your emissions warranty. However, Mazda recommends that all maintenance services be performed at the recommended time or kilometrage (mileage) period to ensure long-term reliability.

*2 If the vehicle is operated in cold districts (below -18 degrees C (0 degrees F)), replace the timing belt at 96,000 km (60,000 miles).

Owner Maintenance

Owner Maintenance Schedule

The owner or a qualified service technician should make these vehicle inspections at the indicated intervals to ensure safe and dependable operation.

Bring any problem to the attention of an Authorized Mazda Dealer or qualified service technician as soon as possible.

▼ When refueling

- Brake and clutch fluid level (page 9-16)
- Engine coolant level (page 9-12)
- Engine oil level (page 9-10)
- Washer fluid level (page 9-19)

▼ At least monthly

- Tire inflation pressures (page 9-9)

▼ At least twice a year (for example, every spring and fall)

- Automatic transaxle fluid level (page 9-17)
- Power steering fluid level (page 9-17)

You can do the following scheduled maintenance items if you have some mechanical ability and a few basic tools and if you closely follow the directions in this manual.

- Air filter (page 9-20)
- Engine coolant (page 9-12)
- Engine oil and oil filter (page 9-10)

Owner Maintenance Precautions

Improper or incomplete service may result in problems. This section gives instructions only for items easy to perform.

As explained in the Introduction (page 9-2), several procedures can be done only by a qualified service technician with special tools.

Improper owner maintenance during the warranty period may affect warranty coverage. For details, read the separate Mazda Warranty statement provided with the vehicle. If you're unsure about any servicing or maintenance procedure, have it done by an Authorized Mazda Dealer.

WARNING

Maintenance Procedures:

Performing maintenance work on a vehicle is dangerous if not done properly. You can be seriously injured while performing some maintenance procedure. If you lack sufficient knowledge and experience or the proper tools and equipment to do the work, have it done by a qualified technician.

Running the Engine:

Working under the hood with the engine running is dangerous. It becomes even more dangerous when you wear jewelry or loose clothing.

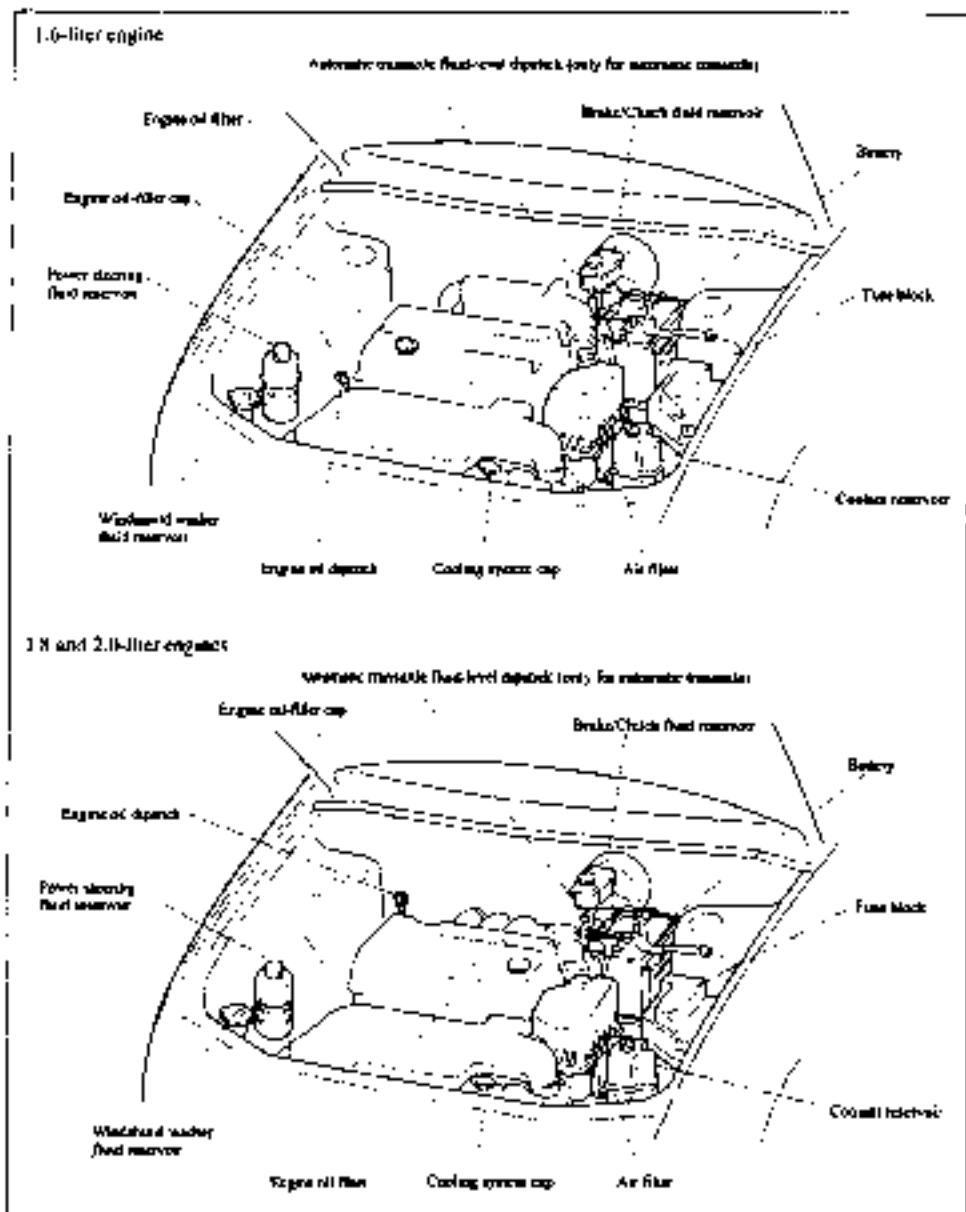
Either can become entangled in moving parts and result in injury.

Therefore, if you must run the engine while working under the hood, make certain that you remove all jewelry (especially rings, bracelets, watches, and necklaces) and all neckties, scarves, and similar loose clothing before getting near the engine or cooling fan.

Electrical Fan and Engine Inspection:

Inspecting the engine with the ignition switch in the ON position is dangerous. The cooling fan could come on unexpectedly even when the engine isn't running. You could be seriously injured by the fan. Turn the ignition switch off and remove the key from the ignition switch when you inspect the engine.

Engine Compartment Overview



Engine Oil

▼ Recommended oil

Oil container labels provide important information.



The quality designation "SJ", "SH", "SJ", or "ILSAC" must be on the label.

Engine oil viscosity, or thickness, has an effect on fuel economy and cold-weather operation (starting and oil flow).

Low-viscosity engine oils can provide improved fuel economy and cold-weather performance.

But high-temperature weather conditions require higher-viscosity engine oils for satisfactory lubrication.

°F (°C)	<p>The chart shows temperature ranges for different oil grades: 0W-20 (32°F to 32°F), 5W-20 (32°F to 32°F), 5W-30 (32°F to 32°F), 10W-30 (32°F to 32°F), 15W-40 (32°F to 32°F), 20W-50 (32°F to 32°F), and 30W-40 (32°F to 32°F).</p>
Oil	<p>The chart shows two arrows pointing to the right, labeled 'SAE 10W-30' and 'SAE 15W-40'.</p>

When choosing an oil, consider the temperature range your vehicle will operate in before the next oil change. Then select the recommended viscosity from this chart.

⚠ CAUTION

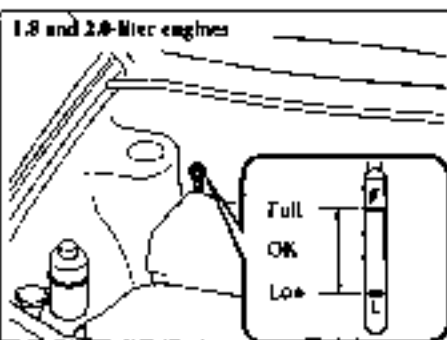
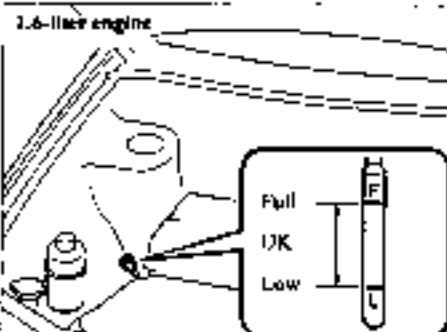
Using oils of viscosity besides those recommended for specific temperature ranges could result in engine damage.

Energy conserving oils are recommended. A chief contribution they make to fuel economy is reducing the amount of fuel necessary to overcome engine friction.

Owner Maintenance

▼ Inspecting engine oil level

1. Be sure the vehicle is on a level surface.
2. Warm up the engine to normal operating temperature.
3. Turn it off and wait 5 minutes for the oil to return to the oil pan.
4. Pull out the dipstick, wipe it clean, and reinsert it fully.



5. Pull it out again and examine the level. It's OK between L and F. But if it's near or below L, add enough oil to bring the level to F.

⚠ CAUTION

Don't add engine oil over F. This may cause engine damage.

6. Make sure the O-ring is positioned properly before reinserting the dipstick.

NOTE

The distance between L and F on the dipstick represents the following: 1.0 L (1.05 US qt, 0.87 Imp qt)

▼ Changing engine oil and filter

Change engine oil and filter according to Scheduled Maintenance (page 9-3).

Please act responsibly—protect the environment and take used oil to a recycling facility. Ask your dealer or a service station for information.

⚠ WARNING

Handling Used Engine Oil: Continuous contact with used engine oil is dangerous. It could cause skin cancer. Always wash with soap and water immediately after changing oil and filter.

Changing engine oil

⚠ WARNING

Checking or Changing Engine Oil: Hot engine oil is dangerous. If the engine has been running, the engine oil becomes very hot. You could be seriously burned. Don't check or change the engine oil when the engine is hot.

1.6-liter engine



1.8 and 2.0-liter engines



1. Warm up the engine for a few minutes and turn it off. Remove the oil-filler cap.
2. Remove the drain plug and drain the oil into a suitable container.
3. Replace the plug tightly after the oil has thoroughly drained.
4. Fill the engine with new oil to the F mark on the dipstick.
5. Securely replace the oil-filler cap.
6. Start the engine and inspect around the drain plug for leaks.
7. Turn it off and wait 5 minutes for the oil to return to the oil pan.

Check the oil level and fill to the F mark if necessary.

Oil capacity (General reference only)**1.6-liter engine:**

3.0 L (3.2 US qt, 2.6 Imp qt)

1.8 and 2.0-liter engines:

3.3 L (3.5 US qt, 2.9 Imp qt)

NOTE

Use only specified engine oil (page 9-9).

Changing oil filter

Because you need a special tool to retighten the filter, an Authorized Mazda Dealer should do the work.

Engine Coolant

▼ Inspecting coolant level

⚠ WARNING

Hot Engine:

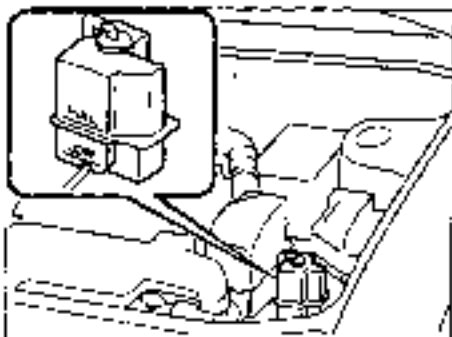
A hot engine is dangerous. If the engine has been running, parts of the engine compartment can become very hot. You could be burned.

Don't inspect the coolant system or add coolant when the engine is hot.

Inspect the antifreeze protection and coolant level in the coolant reservoir at least once a year—at the beginning of the winter season—and before traveling where temperatures may drop below freezing.

Inspect the condition and connections of all cooling system and heater hoses. Replace any that are swollen or deteriorated.

The coolant should be at full in the radiator and between the FULL and LOW marks on the coolant reservoir when the engine is cool.



If it's at or near LOW, add enough coolant to the coolant reservoir to provide freezing and corrosion protection and to bring the level to FULL.

⚠ CAUTION

Radiator coolant will damage paint. Rinse it off quickly.

Do not overfill.

If new coolant is required frequently, consult an Authorized Mazda Dealer.

▼ Changing coolant

Change coolant according to Scheduled Maintenance (page 9-3).

⚠ CAUTION

- Use only soft (demineralized) water in the coolant mixture. Water that contains minerals will cut down on the coolant's effectiveness.
- Don't add only water. Always add a proper coolant mixture.
- The engine has aluminum parts and must be protected by an ethylene-glycol-based coolant to prevent corrosion and freezing. **DO NOT USE** alcohol or methanol antifreeze. **DO NOT MIX** alcohol or methanol with the coolant. This could damage the cooling system.
- Don't use a solution that contains more than 60 % antifreeze. This would reduce effectiveness.

For mixture percentage:

Protection	Volume:	
	Antifreeze solution	Water
Above -16°C (-7°F)	35%	65%
Above -26°C (-15°F)	45	55
Above -40°C (-40°F)	55	45

To change coolant

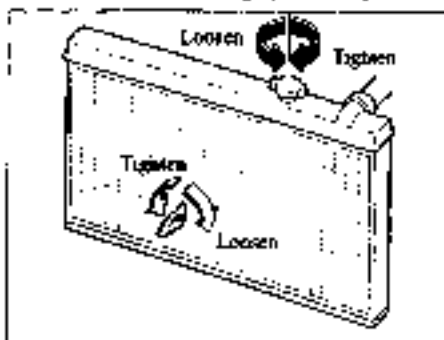
⚠ WARNING

Removing the Cooling System Cap: Removing the cooling system cap or drain plug while the engine is running or hot is dangerous. This might lead to cooling system and engine damage and could result in serious injury from escaping hot coolant or steam. Turn off the engine and wait until it's cool. Even then, be very careful when removing the cap or drain plug. Wrap a thick cloth around it and slowly turn it counterclockwise to the first stop. Step back while the pressure escapes. When you're sure all the pressure is gone, press down on the cap — still using a cloth — turn the cap, and remove it.

Owner Maintenance

Manual transaxle

1. Remove the cooling system cap

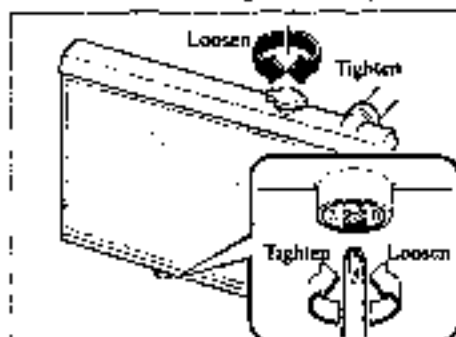


7. Install the cooling system cap. Inspect all connections for leaks. Inspect the level in the coolant reservoir one more time.

2. Only when the engine is cool, loosen the radiator drain plug and drain the coolant into a suitable container.
3. With the drain plug loose but not fully removed, flush out the system with running water.
4. Drain the system completely and retighten the plug. Add as much ethylene-glycol-based coolant and water as necessary to provide freezing and corrosion protection.

In extremely cold climates, add the amount recommended in the coolant manufacturer's instructions.

5. Run the engine at idle with the cooling system cap off. Slowly add additional coolant if necessary.
6. At this point, wait until the engine reaches normal operating temperature; then depress the accelerator two or three times. Add more coolant, if necessary, until the system is full.

Automatic transaxle**1. Remove the cooling system cap**

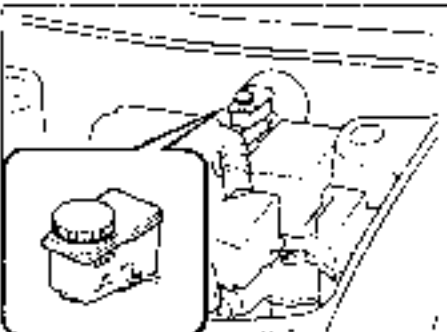
2. Only when the engine is cool, remove the radiator drain plug and drain the coolant into a suitable container.
3. Flush out the system with running water.
4. Drain the system completely. Insert and tighten the plug. Add as much ethylene-glycol-based coolant and water as necessary to provide freezing and corrosion protection.
5. In extremely cold climates, add the amount recommended in the coolant manufacturer's instructions.
6. Run the engine at idle with the cooling system cap off. Slowly add additional coolant if necessary.
7. At this point, wait until the engine reaches normal operating temperature; then depress the accelerator two or three times. Add more coolant, if necessary, until the system is full.

8. Install the cooling system cap. Inspect all connections for leaks. Inspect the level in the coolant reservoir one month.

Brake Fluid

▼ Inspecting Brake Fluid Level

Inspect the fluid level in the reservoir regularly. It should be kept at MAX. The level normally drops with accumulated distance, a condition associated with wear of brake linings. If it is excessively low, have the brake system inspected by an Authorized Mazda Dealer.



▼ Adding Brake Fluid

⚠ WARNING

Spilled Brake Fluid:

Spilled brake fluid is dangerous. If it gets in your eyes, they could be seriously injured. If this happens, immediately flush your eyes with water and get medical attention. Brake fluid spilled on a hot engine could cause a fire. Be careful not to spill brake fluid on yourself or on the engine.

Low Brake Fluid Levels:

Low brake fluid levels could be dangerous. Low levels could signal brake lining wear or a brake system leak. Your brakes could fail and cause an accident. If you find a low fluid level, have the brakes inspected.

If the fluid level is low, add fluid until it reaches MAX.

Before adding fluid, thoroughly clean the area around the cap.

⚠ CAUTION

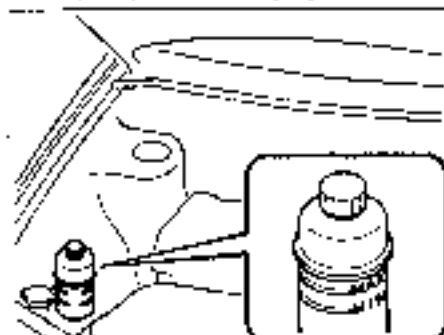
- Brake fluid will damage painted surfaces. If brake fluid does get on a painted surface, wipe it off immediately.
- Using nonspecified brake fluids (see chart, page 11-5) will damage the system. Mixing different fluids will also damage it.

If the brake system frequently requires new fluid, consult an Authorized Mazda Dealer.

Power Steering Fluid

▼ Inspecting Power Steering Fluid Level

Inspect the fluid level in the reservoir at each engine oil change with the engine off and cold. Add fluid if necessary; it does not require periodic changing.



The level must be kept between MIN and MAX.

Visually examine the lines and hoses for leaks and damage.

If new fluid is required frequently, consult an Authorized Mazda Dealer.

⚠ CAUTION

To avoid damage to the power steering pump, don't operate the vehicle for long periods when the power steering fluid level is low.

NOTE

Use specified power steering fluid (chart, page 11-5).

Automatic Transaxle Fluid (ATF)

▼ Inspecting Automatic Transaxle Fluid Level

The automatic transaxle fluid level should be inspected regularly. Measure it as described below.

The volume of fluid changes with the temperature. Fluid must be checked at idle without driving at normal operating temperature.

⚠ CAUTION

- Low fluid level causes transaxle slippage. Overfilling can cause foaming, loss of fluid, and malfunction.
- Use specified fluid (page 11-5). A nonspecified fluid could result in transaxle malfunction and failure.

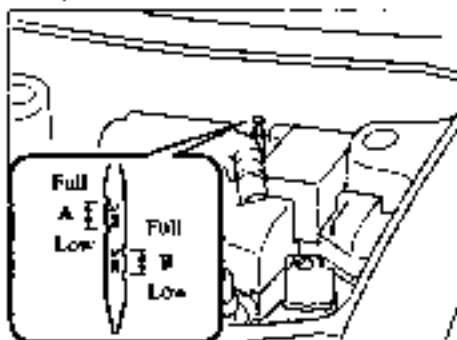
Owner Maintenance

1. Park on a level surface and set the parking brake firmly.
2. Idle the engine about two minutes. Push down on the brake pedal.
3. Move the shift lever through all ranges and set it at P.

⚠ WARNING

Sudden Vehicle Movement:
Shifting the shift lever without first depressing the brake pedal is dangerous. The vehicle could move suddenly and cause an accident. Make sure the brake pedal is applied before shifting the shift lever.

4. With the engine still idling, pull out the dipstick, wipe it clean, and put it back.
5. Pull it out again. The proper fluid level is marked on the dipstick as follows:



Fluid hot scale A

When the vehicle has been driven and the fluid is at normal operating temperature, about 65°C (150°F), the level must be between Full and Low.

Fluid cold scale B

When the engine has not been running and the outside temperature is about 20°C (70°F), the level must be between Full and Low.

NOTE

- Use the cold scale only as a reference.
- If outside temperature is lower than about 20°C (70°F), start the engine and inspect the fluid level after the engine reaches operating temperature.
- If the vehicle has been driven for an extended period at high speeds or in city traffic in hot weather, inspect the level only after stopping the engine and allowing the fluid to cool for 30 minutes.

Fully insert the dipstick. When adding fluid, inspect with the dipstick to make sure it doesn't pass full.

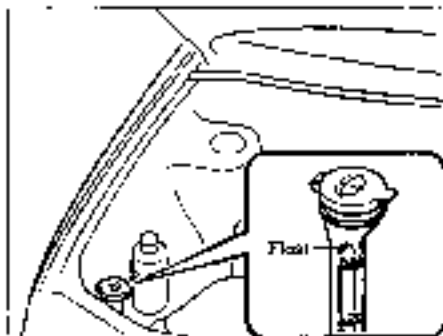
NOTE

Inspect both sides of the dipstick for accurate reading.

Washer Fluid

▼ Inspecting Washer Fluid Level

Inspect fluid level in the washer fluid reservoir; add fluid if necessary.



The top of the float should be between FULL and LOW.

Use plain water if fluid is unavailable. But use only washer fluid in cold weather to prevent it from freezing.

⚠ WARNING

Substitute Washer Fluid:
Using radiator antifreeze as washer fluid is dangerous. If sprayed on the windshield, it will dirty the windshield, affect your visibility, and could result in an accident. Use only windshield washer fluid or plain water in the reservoir.

Body Lubrication

All moving points of the body, such as door and hood hinges and locks, should be lubricated each time the engine oil is changed. Use a nonfreezing lubricant on locks during cold weather.

Make sure the engine hood's secondary latch keeps the hood from opening when the primary latch is released.

Owner Maintenance

Air Filter

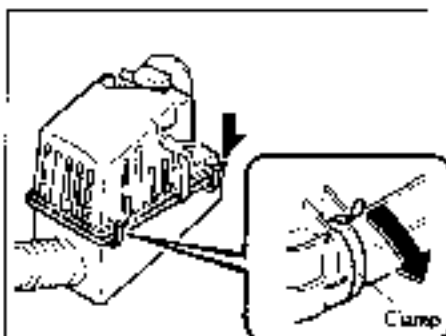
A viscous paper air filter fits inside the air cleaner housing, as shown. It's been specially treated and should not be cleaned and reused. Replace it when necessary.

⚠ CAUTION

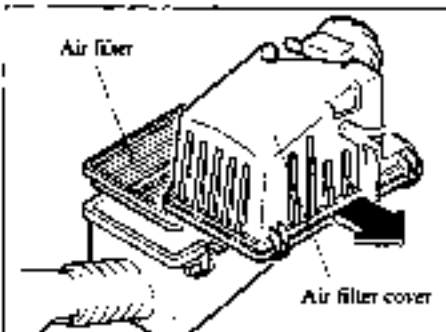
Don't drive without an air filter. This could result in excessive engine wear.

▼ Replacing the Air Filter

1. Unfasten the clamps.



2. Lift off the air filter cover and remove the filter.



3. Wipe inside the air cleaner housing with a damp cloth.
4. Replace the filter.
5. Install in the reverse order of removal. Replace the filter according to Scheduled Maintenance (page 9-3)

NOTE

If the vehicle is operated in very dusty or sandy areas, replace the filter more often than recommended intervals.

Wiper Blades

⚠ CAUTION

Flux waxes applied by automatic car washes have been known to affect the cleanability of windows.

Contamination of either the windshield or the blades with foreign matter can reduce wiper effectiveness. Common sources are insects, tree sap, and hot wax treatments used by some commercial car washes.

If the blades are not wiping properly, clean the window and blades with a good cleaner or mild detergent; then rinse thoroughly with clean water. Repeat if necessary.

⚠ CAUTION

To prevent damage to the wiper blades, don't use gasoline, kerosene, paint thinner, or other solvents on or near them.

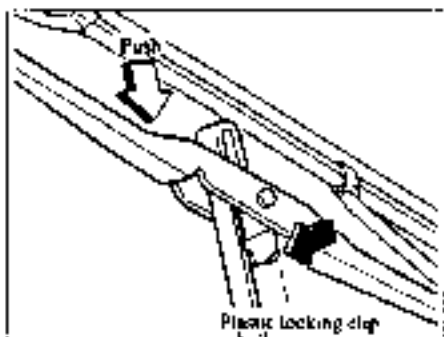
▼ Replacing Windshield Wiper Blades

When the wipers no longer clean well, the blades are probably worn or cracked. Replace them.

⚠ CAUTION

To prevent damage to the wiper arms and other components, don't move the wipers by hand.

1. Raise the wiper arm and turn the blade assembly to expose the plastic locking clip. Compress the clip and slide the assembly downward; then lift it off the arm.

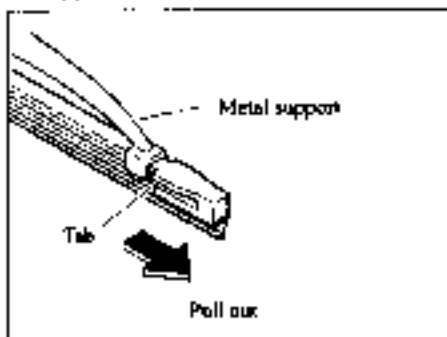


⚠ CAUTION

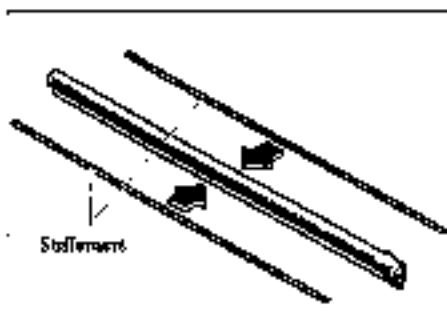
To prevent damage to the windshield, don't let the wiper arm fall on it.

Owner Maintenance

2. Hold the end of the rubber and pull until the tabs are free of the metal support.



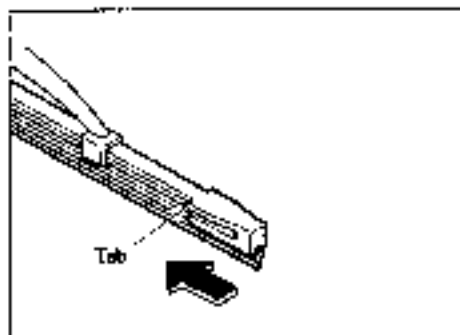
3. Remove the metal stiffeners from the blade rubber and install them in new blades.



⚠ CAUTION

- Don't bend the stiffeners. You need to use them again.
- If the metal stiffeners are switched, the blade's wiping efficiency could be reduced. So don't use the driver's side metal stiffeners on the passenger's side, or vice versa.
- Be sure to reinstall the metal stiffeners in the new blade rubber so that the curve is the same as it was in the old blade rubber.

4. Carefully insert the new blade rubber. Then install the blade assembly in the reverse order of removal.



⚠ CAUTION

Install the blade so that the tabs are toward the bottom of the wiper arm.

Battery

⚠ WARNING

Battery-Related Lead Materials:
*Battery posts, terminals and related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer and reproductive harm.
 Wash hands after handling.*

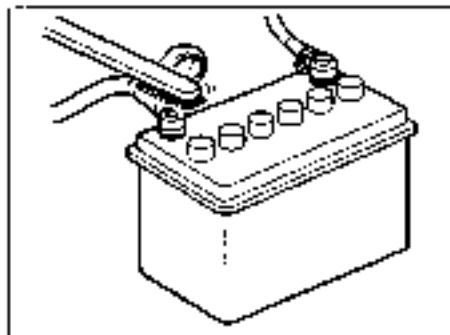
Spilled Battery Fluid:
Spilled battery fluid is dangerous. Battery fluid contains SULFURIC ACID which could cause serious injuries, if it gets in your eyes or on your skin. If this happens, immediately flush your eyes with water for 15 minutes or wash your skin thoroughly and get medical attention. Be careful not to get battery fluid on yourself.

Battery-Related Explosion:
Flames and sparks near open battery cells are dangerous. Hydrogen gas, produced during normal battery operation, could ignite and cause the battery to explode. An exploding battery can cause serious burns and injuries. Keep all flames, including cigarettes, and sparks away from open battery cells.

Children and Batteries:
Allowing children to play near batteries is dangerous. Battery fluid could cause serious injuries if it gets in the eyes or on the skin. Always keep batteries out of the reach of children.

To get the best service from a battery.

- Keep it securely mounted.
- Keep the top clean and dry.
- Keep terminals and connections clean, tight, and coated with petroleum jelly or terminal grease.



- Rinse off spilled electrolyte immediately with a solution of water and baking soda.
- If the vehicle will not be used for an extended time, disconnect the battery cables.

Owner Maintenance

Tires

For reasons of proper performance, safety, and better fuel economy, always maintain recommended tire inflation pressures and stay within the recommended load limits and weight distribution.

⚠ WARNING

Using Different Tire Types:

Driving your vehicle with different types of tires is dangerous. It could cause poor handling and poor braking, leading to loss of control. Except when using the temporary spare tire, use only the same type tires (radial, bias-belted, bias-type) on all four wheels.

Using Wrong-Sized Tires:

Using any other tire size than what is specified for your Mazda (page 11-8) is dangerous. It could seriously affect ride, handling, ground clearance, tire clearance, and speedometer calibration. This could cause you to have an accident. Use only tires that are the correct size specified for your Mazda.

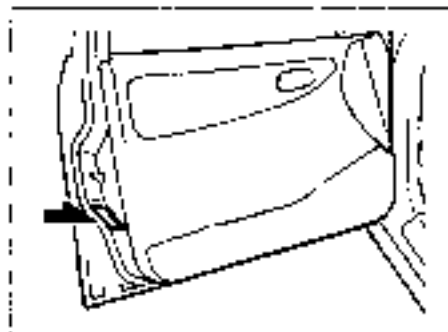
▼ Tire inflation pressure

⚠ WARNING

Incorrect Tire Inflation:

Overinflation or underinflation of tires is dangerous. Adverse handling or unexpected tire failure could result in a serious accident. Always inflate the tires to the correct pressure (page 11-8).

Inspect all tire pressures monthly (including the spare) when the tires are cold. Maintain recommended pressures for the best ride, top handling, and minimum tire wear.



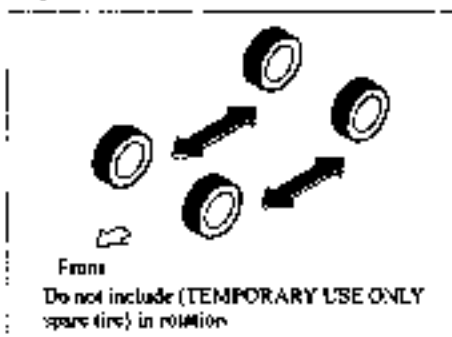
Refer to the specification charts (page 11-8).

NOTE

- Warm tires normally exceed recommended pressures. Don't release air from warm tires to adjust the pressure.
- Underinflation can cause reduced fuel economy and poor sealing of the tire bead, which will deform the wheel and cause separation of tire from rim.
- Overinflation can produce a harsh ride and a greater possibility of damage from road hazards. Keep your tire pressure at the correct levels. If one frequently needs inflating, have it inspected.

▼ Tire rotation

To equalize tread wear, rotate the tires every 6,000 km (3,750 miles), or sooner if irregular wear develops. During rotation, inspect them for correct balance.



Also, inspect them for uneven wear and damage. Abnormal wear is usually caused by one or a combination of the following:

- Incorrect tire pressure
- Improper wheel alignment
- Out-of-balance wheel
- Severe braking

After rotation, bring all tire pressures to specification (page 11-R) and inspect the lug nuts for tightness.

Owner Maintenance

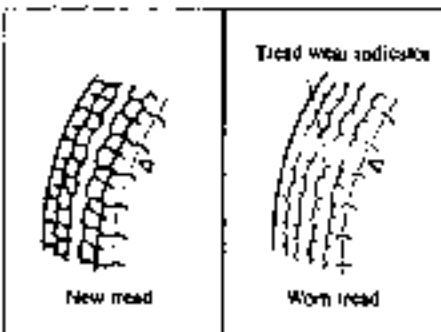
▼ Replacing a tire

⚠ WARNING

Worn Tires:

Driving with worn tires is dangerous. Reduced braking, steering, and traction could result in an accident. Always use tires that are in good condition.

If a tire wears evenly, a wear indicator will appear as a solid band across the tread. Replace the tire when this happens.



You may need to replace it before the band is across the entire tread.

▼ Temporary spare tire

Inspect the temporary spare tire at least monthly to make sure it's properly inflated and stored.

The temporary spare tire is easier to handle because of its construction. It is lighter and smaller than a conventional tire and should be used only for an emergency and only for a short distance.

Use the temporary only until the conventional tire is repaired, which should be as soon as possible.

Maintain its pressure at 420 kPa (60 psi).

⚠ CAUTION

- Don't use your temporary spare tire rim with a no wire or a conventional tire. Neither will properly fit and could damage both tire and rim.
- The temporary spare tire has a tread life of up to 4,800 km (3,000 mile), depending on road conditions and driving habits.
- When the tread wear solid-band indicator appears, replace the tire with the same type of temporary spare.

▼ Replacing a wheel

When replacing a wheel, make sure the new one is the same as the original factory wheel in diameter, rim width, and offset.

Proper tire balancing provides the best riding comfort and helps reduce tread wear. Out-of-balance tires can cause vibration and uneven wear, such as cupping and flat spots.

WARNING

Using a Wrong-Sized Wheel:
Using a wrong-sized wheel is dangerous. Braking and handling could be affected, leading to loss of control and an accident. Always use wheels of the correct size on your vehicle.

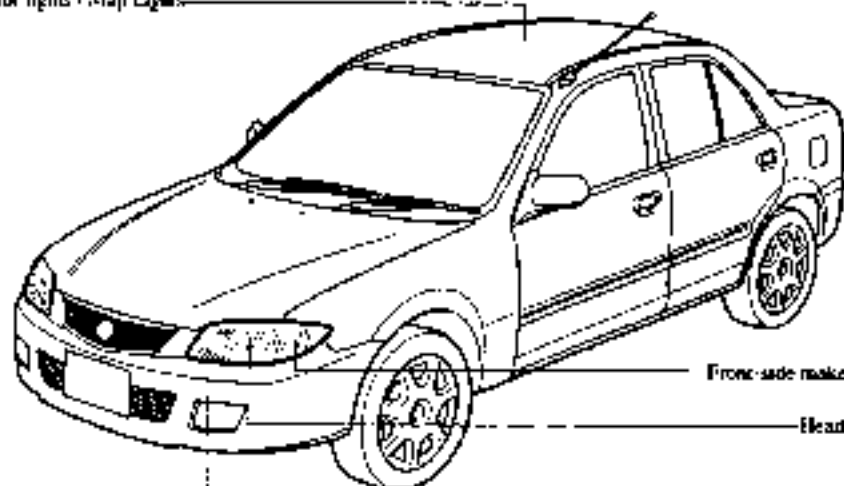
CAUTION

A wrong-sized wheel may adversely affect

- Tire fit
- Wheel and bearing life
- Ground clearance
- Snow-chain clearance
- Speedometer calibration
- Headlight aim
- Bumper height

Light Bulbs

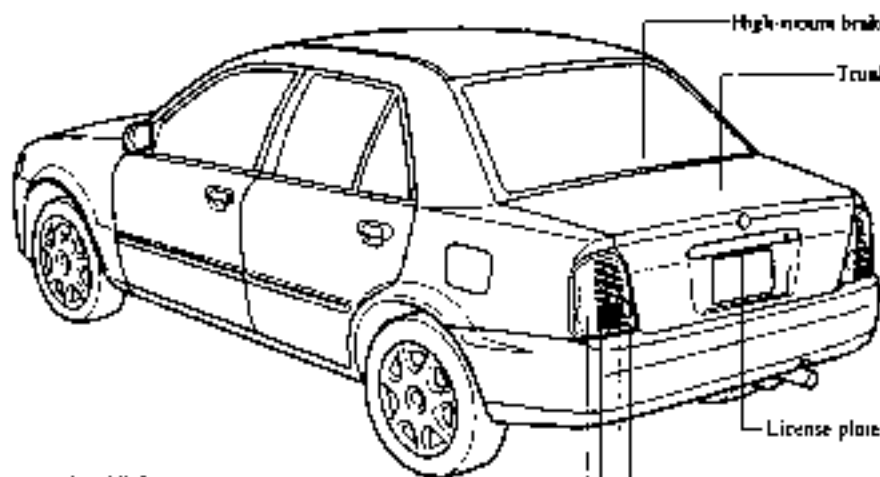
Interior lights / Map Lights



Front-side marker lights

Headlights

Front turn signal lights/
Parking lights



High-mount brake light

Trunk light

License plate lights

Rear turn signal lights

Tail lights

Brake lights / Tail lights

Back up lights

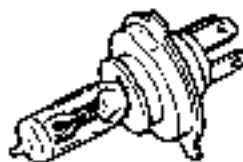
Owner Maintenance

Your Mazda's headlights have replaceable halogen bulbs.

⚠ WARNING

Handling Halogen Bulbs:

When a halogen bulb breaks, it is dangerous. These bulbs contain pressurized gas. If one is broken, it will explode and serious injuries could be caused by the flying glass. If the glass portion is touched with bare hands, body oil could cause the bulb to overheat and explode when lit. Never touch the glass portion of the bulb with your bare hands and always wear eye protection when handling or working around halogen bulbs.



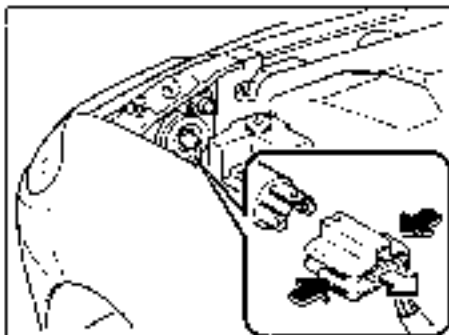
Do not touch the glass surface

Children and Halogen Bulbs:

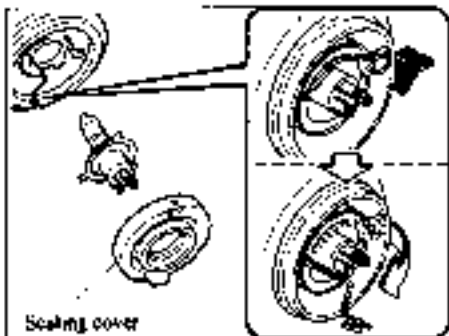
Playing with a halogen bulb is dangerous. Serious injuries could be caused by dropping a halogen bulb or breaking it some other way. Always keep halogen bulbs out of the reach of children.

▼ Replacing a Headlight Bulb

1. Make sure the headlight switch is off.
2. Lift the hood and find the bulb in the rear of the headlight body.
3. Detach the electrical connector from the bulb by squeezing the tabs and pulling it to the rear.



4. Pull off the sealing cover



Owner Maintenance

5. Unhook the bulb-retaining spring.
6. Swing the retaining spring out and away to free the headlight bulb.
7. Carefully remove the headlight bulb from the socket by pulling it straight back.
8. Replace the bulb.
9. Install in the reverse order of removal.

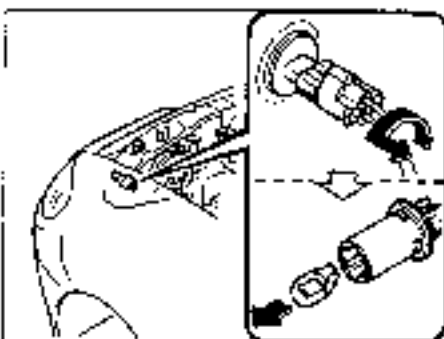
NOTE

- When reinstalling the sealing cover, make sure faces up.
- Use the protective cover and carton to dispose of the old bulb promptly out of the reach of children.

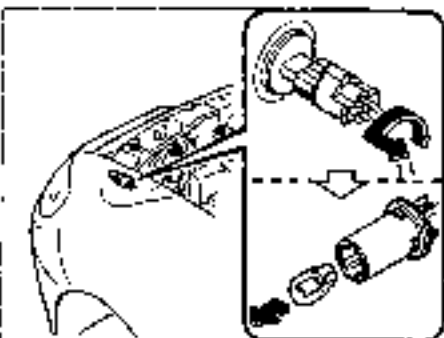
▼ Replacing a Bulb (Front)

To replace the fog light bulbs, contact an Authorized Mazda Dealer.

Front-turn signal lights/Parking lights

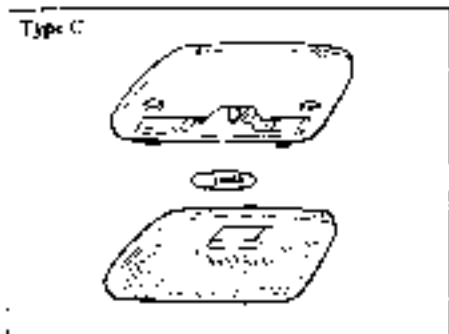
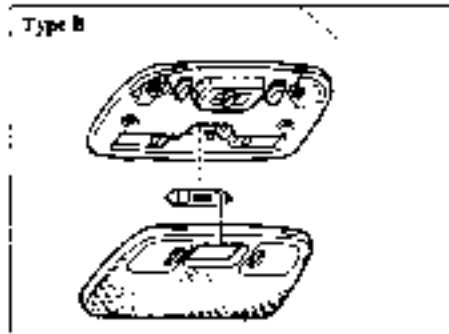
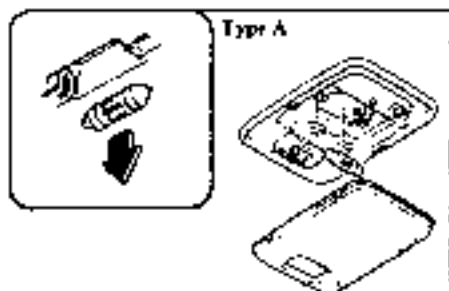


Front-side marker lights

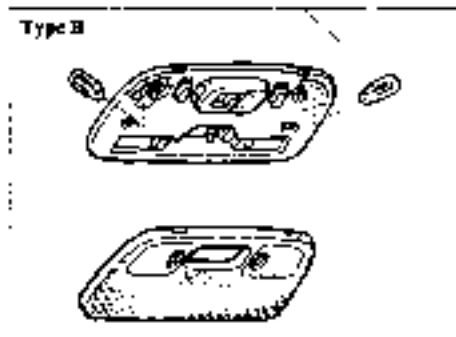
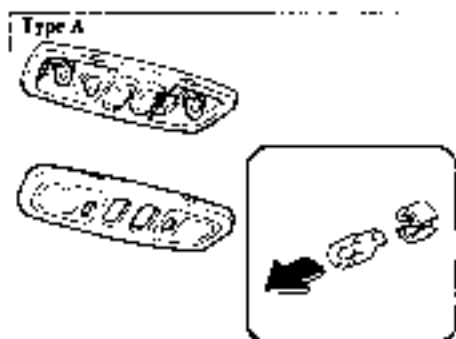


▼ Replacing a Bulb (Interior)

Interior lights



Map lights



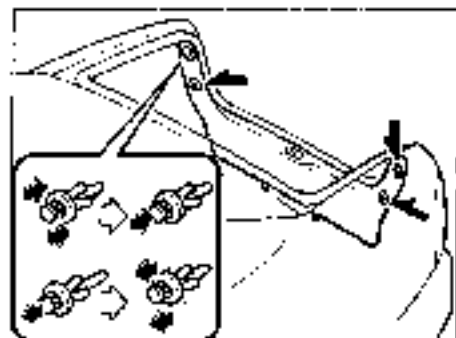
Owner Maintenance

▼ Replacing a Bulb (Rear)

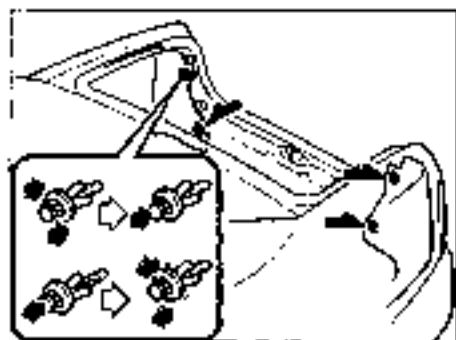
Rear Bulb Access

To replace the turn-signal light, brake light/taillight, side-marker light or back-up light bulb, the trunk end trim must be removed and the inside cover must be partially opened.

1. Pull the center section of the plastic retainer and remove the retainers and the trunk end trim.



2. Remove the inside cover's plastic retainers and partially open the inside cover.

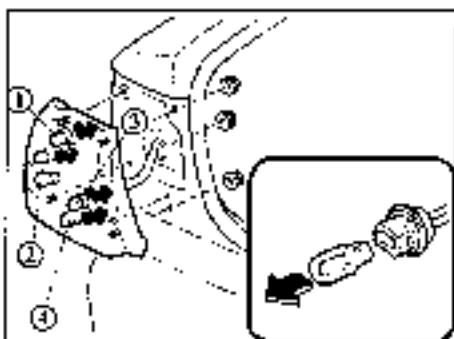


① Brake lights/Taillights

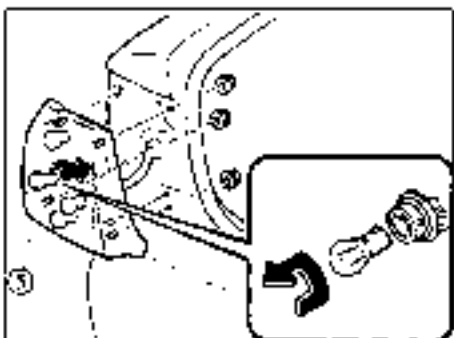
② Rear-side marker lights

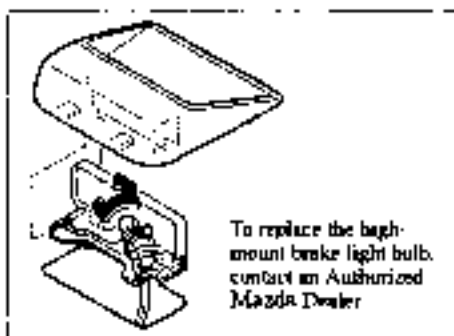
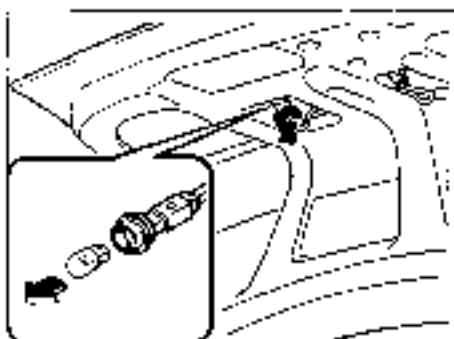
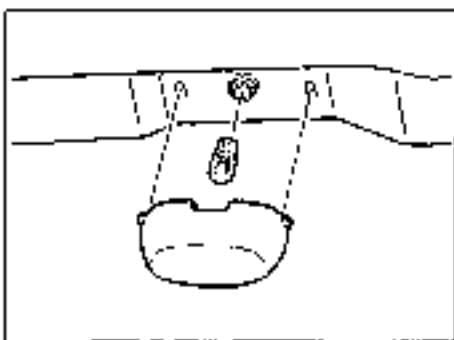
③ Back up lights

④ Taillights



⑤ Rear-turn signal lights



High-mount brake light**License plate lights****Trunk light**

Owner Maintenance

Fuses

Your vehicle's electrical system is protected by fuses.

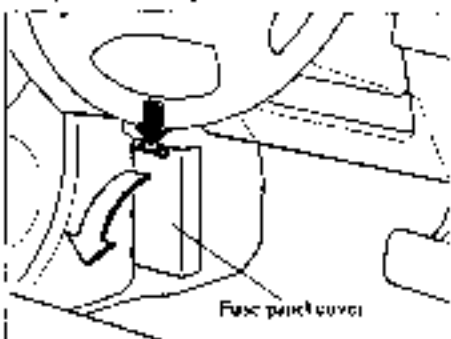
If any lights, accessories, or controls don't work, inspect the appropriate circuit protector. If a fuse has blown, the inside element will be melted.

If the same fuse blows again, avoid using that system and consult an Authorized Mazda Dealer as soon as possible.

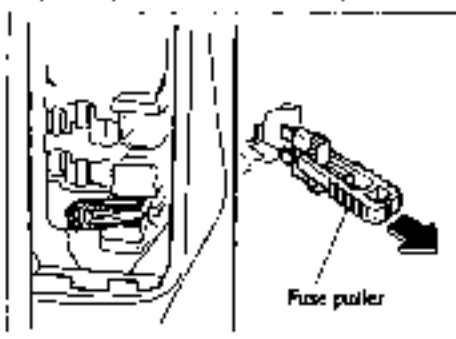
▼ Fuse Replacement

If the electrical system doesn't work, first inspect fuses on the driver's side.

1. Turn off the ignition switch and other switches.
2. Open the fuse panel.



3. Pull the fuse straight out with the fuse puller provided on the fuse panel.



4. Inspect it and replace if it's blown.



Normal



Blown

NOTE

The check engine light* comes on when a ROOM fuse blows or when a ROOM fuse is removed. When installing a ROOM fuse, turn the ignition switch off and wait 60 seconds before installing the fuse. If the check engine light* comes on and doesn't go off, there is a problem other than the fuse system. Consult your Authorized Mazda Dealer.

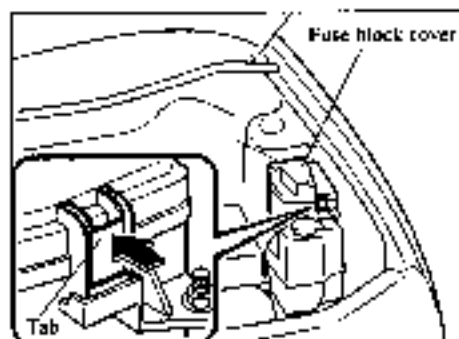
5. Push in a new fuse of the same rating, and make sure it fits tightly. If it doesn't, have an Authorized Mazda Dealer install it.
If you have no spare fuses, borrow one of the same rating from a circuit not essential to vehicle operation, such as the RADIO circuit.

⚠ CAUTION

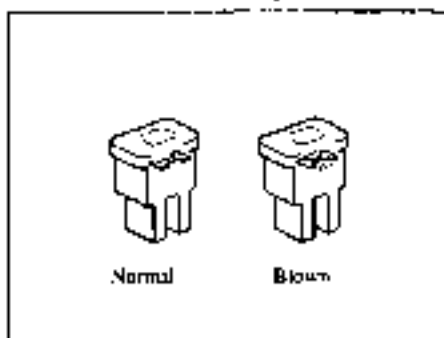
Always replace a fuse with one of the same rating. Otherwise you may damage the electric system.

If the headlights or other electrical components don't work and the fuses in the cabin are OK, inspect the fuse block under the hood. If a fuse is blown, it must be replaced. Follow these steps:

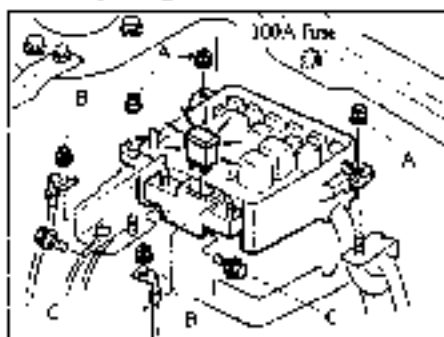
1. Turn off the ignition switch and all other switches.
2. To remove the fuse block cover, unhook it and lift up on the side with the tab.



3. If a fuse is blown, replace it with a new one of the same rating.



When replacing the 100A fuse.

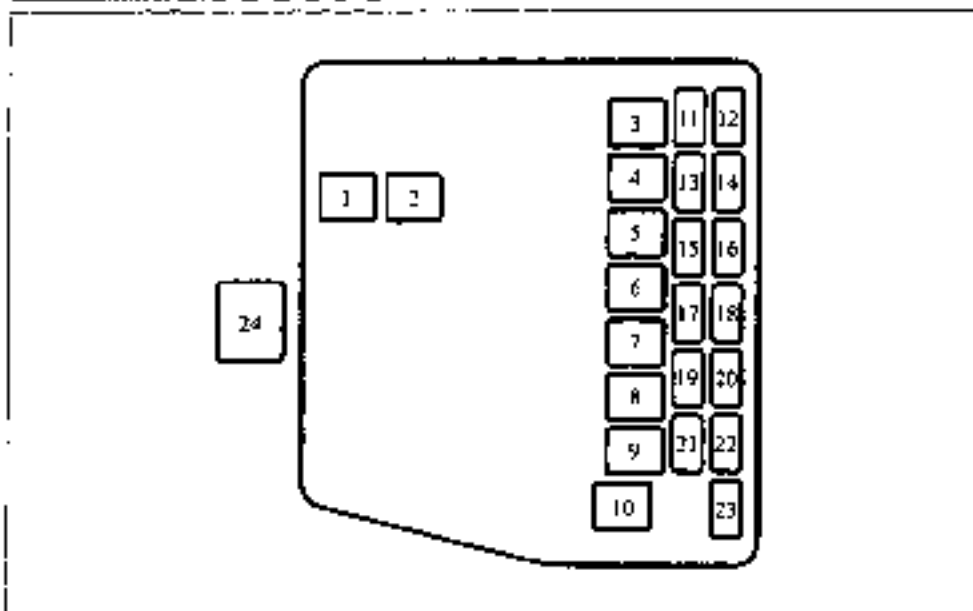


1. Turn off the ignition switch.
2. Remove the negative battery terminal.
3. Remove nuts A and B.
4. Lift the fuse block and remove the C bolts.
5. Replace the fuse with a new one of the same rating.
6. Install in the reverse order of removal.

Owner Maintenance

▼ Fuse Panel Description

Fuse block (Engine compartment)



DESCRIPTION	FUSE RATING	PROTECTED COMPONENT
1 HEATER	47A	Heater
2 (ABS)	60A	Antilock brake system*. For protection of various circuits*
3 IG KEY	60A	For protection of various circuits
4 (FTC)	37A	-
5 (GLOW)	40A	-
6	-	-
7 COOLING FAN	30A	Cooling fan
8 BTN	40A	Interior lights, Power door lock*
9 (AD FAN)	30A	Additional cooling fan for air conditioner*
10 (IN) (R FIP)	30A	Engine control

DESCRIPTION	FUSE RATING	PROTECTED COMPONENT
11 (A/C)	15A	Air conditioner*
12 (ST SIG)	15A	Starter signal
13 HORN	15A	Horn
14 HAZARD	15A	Hazard warning
15 TAIL	15A	Faultlight
16 (HEAD C/L)	7.5A	For protection of various circuits
17 (FOG)	15A	-
18 (FOG)	15A	For protection of various circuits
19 STOP	15A	Brake lights
20 HEAD-R	15A	Headlights-right
21 HEAD-L	15A	Headlights-left
22	-	-
23	-	-
24 MAIN	100A	For protection of all circuits

Fuse panel (Driver's side)



DESCRIPTION	FUSE RATING	PROTECTED COMPONENT
1 (S/WRM)	15A	For protection of various circuits
2 (H/CLN)	20A	For protection of various circuits
3 (RAD/CD)	15A	Audio*
4 (A/C)	15A	Air conditioner*
5 (R. WIPER)	20A	For protection of various circuits
6		
7		
8 ROOM	10A	Interior lights, Trunk light*
9 (MIRR DEF)	10A	
13		

DESCRIPTION	FUSE RATING	PROTECTED COMPONENT
11 (DOOR LOCK)	30A	Power door lock*
12 (P/WIND)	30A	
13 WIPER	20A	Windshield wipers and washer
14 ENGINE	10A	Engine control system
15 METER	10A	Gauges
16 (P/WIND)	30A	Power windows*

Important consumer information including warranties and add-on equipment.

Customer Assistance	10- 2
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Importer/Distributor	10- 4
Distributor in each area	10- 4
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Uniform Tire Quality Grading System (UTQGS)	10- 7
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Reporting Safety Defects	10- 9
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Service Publications	10-10

Customer Assistance

Customer Assistance (Except Puerto Rico)

Your complete and permanent satisfaction is our business. We are here to serve you. All Authorized Mazda Dealers have the knowledge and the tools to keep your Mazda vehicle in top condition.

If you have any questions or recommendations for improvement regarding the service of your Mazda vehicle or servicing by Mazda Dealer personnel, we recommend that you take the following steps:

▼ STEP 1: Contact Your Mazda Dealer

Discuss the matter with an Authorized Mazda Dealer. This is the quickest and best way to address the issue. If your concern has not been resolved by the CUSTOMER RELATIONS, SALES, SERVICE, or PARTS MANAGER, then please contact the GENERAL MANAGER of the dealership or the OWNER.

▼ STEP 2: Call the Mazda National Customer Assistance Center #800

If for any reason you feel the need for further assistance after contacting your dealership management, call Mazda North American Operations' Customer Assistance Center toll-free at: 1 (800) 222-5500

In order to serve you efficiently and effectively, please help us by providing the following information:

1. Your name, address, and telephone number
2. Year and model of vehicle
3. Vehicle Identification Number (17 digits, noted on your registration or title or located on the upper driver's side corner of the dash)
4. Purchase date and current mileage
5. Your dealer's name and location
6. Your question(s)

If you would like to write a letter, please address it to the following. Attn: Customer Assistance, which corresponds with your state:

REGIONAL OFFICE	AREAS COVERED
Mazda North American Operations 7755 Irvine Center Drive Irvine, CA 92618-2922 P.O. BOX 19734 Irvine, CA 92623-9734	All states

This way, we can be sure to respond to you as efficiently as possible. That is our goal. If you live outside the U.S.A., please contact your nearest Mazda Distributor.

Customer Assistance (Puerto Rico)

Your complete and permanent satisfaction is our business. That is why all Authorized Mazda Dealers have the knowledge and the tools to keep your Mazda vehicle in top condition.

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▼ STEP 2

If, after following STEP 1, you feel the need for further assistance, please contact your area's Mazda representative (indicated on the next page).

Please help us by providing the following information.

1. Your name, address, and telephone number
2. Year and model of vehicle
3. Vehicle Identification Number (17 digits, noted on your registration or title or located on the upper driver's side corner of the dash)
4. Purchase date and current mileage
5. Your dealer's name and location
6. Your question(s)

Mazda Importer/Distributors

Importer/Distributor

▼ U.S.A.

Mazda North American Operations

7755 Irvine Center Drive

Irvine, CA 92618-2922

P.O. Box 19734

Irvine, CA 92623-9734

TEL: 1 (800) 222-5500 (in U.S.A.)

(949) 727-1990 (outside U.S.A.)

Distributor in each area

▼ CANADA

Mazda Canada Inc.

305 Milner Avenue, Suite 400

Scarborough, Ontario M1B 3V4 Canada

TEL: 1 (800) 263-4680 (in Canada)

(416) 609-9909 (outside Canada)

▼ PUERTO RICO

Plaza Motors Corp. (Mazda de Puerto Rico)

P.O. Box 362722, San Juan, Puerto Rico

00936-2722

TEL: (787) 788-9100

▼ GUAM

Triple J Motors

157 South Marine Drive, Tamuning,

GUAM 96911 USA

P.O. Box 6066 Tamuning, Guam 96931

TEL: (671) 649-6555

▼ SAIPAN

Pacific International Marianas, Inc.

(d.b.a. Midway Motors)

P.O. Box 887 Saipan, MP 96950

TEL: (670) 234-7524

▼ AMERICAN SAMOA

Polynesia Motors, Inc.

P.O. Box 1120, Pago Pago, American

Samoa 96799

TEL: (684) 699-4347

Warranties for Your Mazda

- New Vehicle Limited Warranty
- Safety Restraint System Limited Warranty
- Anti-perforation Limited Warranty
- Federal Emission Control Warranty
 - Emission Defect Warranty
 - Emission Performance Warranty
- California Emission Control Warranty (if applicable)
- Replacement Parts and Accessories Limited Warranty
- Tire Warranty

NOTE

Detailed warranty information is provided with your Mazda.

Outside the United States and Canada

Government regulations in the United States require that automobiles meet specific emission regulations and safety standards. Therefore, vehicles built for use in the United States, its territories, and Canada may differ from those sold in other countries.

The differences may make it difficult or even impossible for your vehicle to receive satisfactory servicing in other countries.

We strongly recommend that you **NOT** take your Mazda outside these areas.

You may have these problems if you do:

- Recommended fuel may be unavailable. Any kind of leaded fuel or low-octane fuel will affect vehicle performance and damage the emission controls and engine.
- Proper repair facilities, tools, testing equipment, and replacement parts may not be available.

The Mazda warranty applies only to Mazda vehicles registered and normally operated in the United States, its territories, and Canada.

Warranty

Add-On Non-Genuine Parts and Accessories

Non-genuine parts and accessories for Mazda vehicles can be found in stores. These may fit your vehicle, but they are not approved by the Mazda for use with Mazda vehicles. When you install non-genuine parts or accessories, they could affect your vehicle's performance or safety system; the Mazda warranty doesn't cover this. Before you install any non-genuine parts or accessories, consult an Authorized Mazda Dealer.

WARNING

Installation of Non-Genuine Parts or Accessories:

Installation of non-genuine parts or accessories is dangerous. Improperly designed parts or accessories could seriously affect your vehicle's performance or safety system. This could cause you to have an accident or increase your chances of injuries in an accident. Always consult an Authorized Mazda Dealer before you install non-genuine parts or accessories.

Add-On Electrical and Electronic Equipment:

Incorrectly choosing or installing improper add-on equipment or choosing an improper installer is dangerous. Essential systems could be damaged, causing engine stalling, air-bag (SRS) activation, ABS inactivation, or a fire in the vehicle. Be very careful in choosing and installing add-on electrical equipment, such as mobile telephones, two-way radios, stereo systems, and car alarm systems.

Mazda assumes no responsibility for death, injury, or expenses that may result from the installation of add-on non-genuine parts or accessories.

Uniform Tire Quality Grading System (UTQGS)

Uniform Tire Quality Grading System (UTQGS)

This information relates to the tire grading system developed by the U.S. National Highway Traffic Safety Administration for grading tires by tread wear, traction, and temperature performance.

▼ Tread Wear

The tread wear 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 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 because of variations in driving habits, service practices and differences in road characteristics and climate.

▼ Traction—AA, A, B, C

The traction grades, from highest to lowest, are AA, A, B, and C. 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 (straight ahead) traction tests and does not include acceleration cornering (turning), hydroplaning, or peak traction characteristics.

▼ Temperature—A, B, C

The temperature grades are A (the highest), B, and C, represent 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 temperatures can lead to sudden tire failure.

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.

Uniform Tire Quality Grading System (UTQGS)

⚠ 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 grade of tires available as standard or optional equipment on Mazda vehicle may vary with respect to grade.

ALL PASSENGER VEHICLE TIRES MUST CONFORM TO THESE GRADES AND TO ALL OTHER FEDERAL TIRE-SAFETY REQUIREMENTS

▼ Uniform Tire Quality Grading

Quality grades can be found where applicable on the tire sidewall between tread shoulder and maximum section width.

For example:

Treadwear 200 Traction AA Temperature A

UTQGS MARK (example)

TREADWEAR 200 TRACTION AA
TEMPERATURE A



Reporting Safety Defects**Reporting Safety Defects**

If you believe that your vehicle has a defect which could cause a crash or could cause injury or death, you should immediately inform the National Highway Traffic Safety Administration (NHTSA) in addition to notifying Mazda Motor Corporation (Your Mazda Importer/Distributor).

If NHTSA receives similar complaints, it may open an investigation, and if it finds that a safety defect exists in a group of vehicles, it may order a recall and remedy campaign. However, NHTSA cannot become involved in individual problems between you, your dealer, or Mazda Motor Corporation (Your Mazda Importer/Distributor).

To contact NHTSA, you may either call the Auto Safety Hotline toll-free at 1(800)424-9393 (or 366-0123 in Washington, D.C. area) or write to: NHTSA, U.S. Department of Transportation, Washington, D.C. 20590. You can also obtain other information about motor vehicle safety from the Hotline.

NOTE

If you live in the U.S.A., all correspondence to Mazda Motor Corporation should be forwarded to:

Mazda North American Operations
7755, Irvine Center Drive
Irvine, California 92618-2922
P.O. Box 19734
Irvine, CA 92623-9734
Customer Assistance Center or toll free at 1 (800) 223-5500

If you live outside of the U.S.A., please contact the nearest Mazda Distributor shown on page 10-4 in this booklet.

Service Publications

Service Publications

Factory-authorized Mazda service publications are available for owners who wish to do some of their own maintenance and repair.

When requesting any of our publications through an Authorized Mazda Dealer, refer to the chart below.

If they don't have what you need in stock, they can order it for you.

PUBLICATION ORDER NUMBER	PUBLICATION DESCRIPTION
9999 95 1H7B 01	2001 WORKSHOP MANUAL (English)
9999 95 019C 01	2001 WIRING DIAGRAM (English)
9999 95 038C 01 (Except Puerto Rico)	2001 OWNER'S MANUAL

▼ WORKSHOP MANUAL:

Covers recommended maintenance and repair procedures of the drive train, body and chassis.

▼ WIRING DIAGRAM:

Provides electrical schematics as well as component location for the entire electrical system.

▼ OWNER'S MANUAL:

This booklet contains information regarding the proper care and operation of your vehicle. This is not a technician's manual.

Technical information about your vehicle.

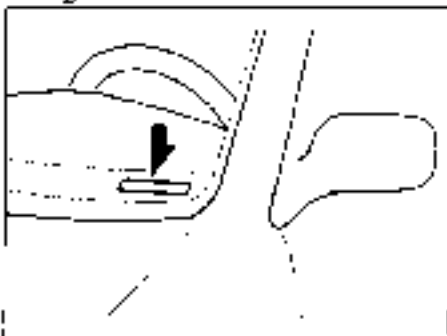
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Identification Numbers

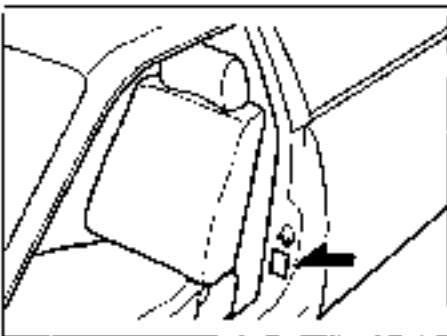
Vehicle Information Labels

▼ Vehicle identification number

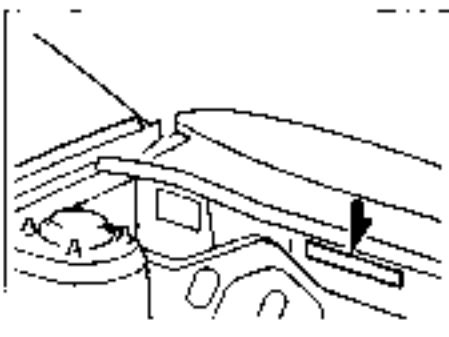
The vehicle identification number legally identifies your vehicle. It's on a plate attached to the left top side of the dashboard. This plate can easily be seen through the windshield.



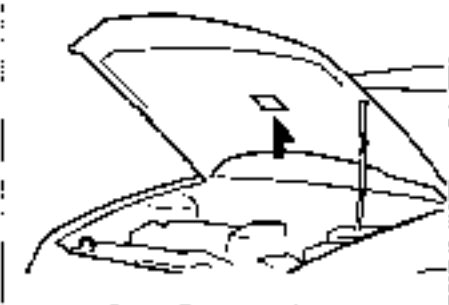
▼ Motor vehicle safety standard label



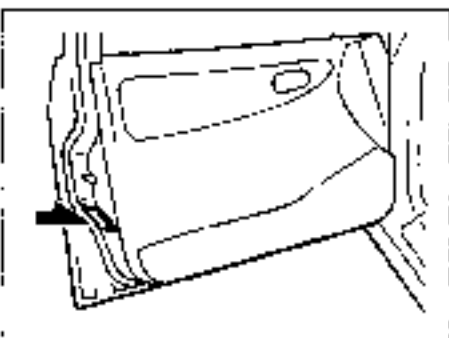
▼ Chassis number



▼ Vehicle emission control information label*

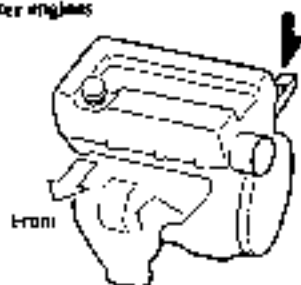


▼ Tire pressure label

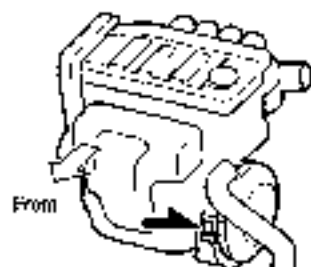


▼ Engine number

1.6-litre engines



1.8 and 2.0-litre engines



Specifications

Specifications

▼ Engine

Item	Model	1.6-liter engine	1.8 and 2.0-liter engine
Type		DOHC-16V in-line, 4-cylinder	
Bore x Stroke		78.0 x 83.6 mm (3.07 x 3.29 in)	83.0 x 85.0 mm (3.27 x 3.35 in)
Displacement		1,598 ml (1,568 cc, 97.5 cu in)	1,840 ml (1,840 cc, 112.2 cu in)
Compression ratio		9.0	9.1

▼ Electrical System

Item	Model	1.6-liter engine	1.8 and 2.0-liter engine
Battery		12V 40AH/5HR	12V—40AH/5HR 12V—52AH/5HR
Alternator		12V670A	12V680A
Stator		12V61.0 kW	12V61.0 kW
Spark plug number	NGK	ZFR5F—11 ZFR6F—11	BKR5F—11 BKR6E—11
	DENSO	KJ16CR11 KJ20CR21	K16PR5U11 K20PR6U11
	CHAMPION	—	RC8YC4 RC10YC4
	MAZDA	—	BPI2 12 110 BPI4 12 110
Spark-plug gap		1.0—1.1 mm 0.039—0.043 in	

▼ **Lubricant Quality**

Lubricant	Classification	
	API Service	ILSAC
Engine oil*	SG (Energy Conserving II)	—
	SH (Energy Conserving II)	GF-1
	SJ	GF-2
Manual transaxle oil	Any temperature API Service GL-4 or GL-5 (SAE 75W-90) Above 30°F (10°C) API Service GL-4 or GL-5 (SAE 80W-90)	
Automatic transaxle fluid	ATF M-111 or equivalent (e.g. Dexron® II)	
Power steering fluid	ATF M-111 or equivalent (e.g. Dexron® II)	
Brake/clutch fluid	FMVSS116 (DOT-3)	

Specifications

▼ Capacities

(Approximate Quantities)

Item	Unit	L	US qt	Imp qt	
Engine oil	1.6-liter engine	With oil filter replacement	3.2	3.4	2.8
		Without oil filter replacement	3.0	3.2	2.6
	1.8 and 2.0-liter engine	With oil filter replacement	3.5	3.7	3.1
		Without oil filter replacement	3.3	3.5	2.9
Coolant	1.6-liter engine	With heater	6.0	6.3	5.3
		Without heater	5.5	5.8	4.8
	1.8 and 2.0-liter engine	With heater	7.5	7.9	6.6
		Without heater	6.9	7.3	6.1
Transmission oil	Manual transaxle	2.7	2.9	2.4	
	Automatic transaxle	7.2	7.6	6.3	
		L	US gal	Imp gal	
Fuel tank	1.6-liter engine	40	13.2	11.0	
	1.8 and 2.0-liter engine	55	14.5	12.1	

Check oil and fluid levels with dipsticks or reservoir gauges.

▼ Dimensions

Unit: mm (in)

Overall length	4,490 (175.2)
Overall width	1,705 (67.1)
Overall height	1,410 (55.5)
Front tread	1,470 (57.9)
Rear tread	1,470 (57.9)
Wheelbase	2,610 (102.8)

▼ **Weights**

Unit: kg (lb)

Item		Model	1.6-liter engine		1.8 and 2.0-liter engine	
GVWR			1,630 (3,527)		1,653 (3,644)	
GAWR	Front		850 (1,874)		883 (1,947)	
	Rear		760 (1,675)		790 (1,720)	

GVWR: Gross Vehicle Weight Rating

GAWR: Gross Axle Weight Rating

▼ **Air Conditioner**

Gas complies with SAE J639	R-134a
Maximum operating charge	0.6 kg (1.32 gal)

▼ **Light Bulbs**

Light bulb	Wattage	Bulb trade number
Headlights	60/55	H8/2
Front-turn signal/Parking lights	27/28	1157
Fog lights	55	—
Rear-cross signal lights	21	—
Front-side marker lights	5	—
Rear-side marker lights	3.8	194
Taillights	3.8	194
Brake lights/Taillights	21/5	7443
High-mount brake light	21	—
Back-up lights	21	7443
License plate lights	5	—
Trunk light	5	—
Interior light	Type A	141
	Type B and C	5
Map lights*	5	—

Specifications

▼ Tires

Standard tires

	Tire size	Inflation pressure: kPa (kg/cm ² , psi or lb/in ²)	
		Front	Rear
1.6-liter engine	P185/55R14 85S	220 (2.2, 32)	220 (2.2, 32)
1.8-liter engine	P185/55R14 85T	210 (2.1, 30)	210 (2.1, 30)
	P195/55R15 85V		
2.0-liter engine	Standard type	P195/55R15 84V	220 (2.2, 32)
	Special type	P195/50R15 83V	

Temporary spare tire

	Tire size	Inflation pressure kPa (psi)
1.6-liter engine	T115/70 D14	420 (4.2, 60)
1.8 and 2.0-liter engine	T115/70 D15	

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