



2007 Mazda CX-7

Owner's Manual



Zoom-Zoom

All children instinctively know it.

A few adults still remember it.

One unique car company refuses to outgrow it.

In grown-up language, it means the exhilaration and

liberation that come from experiencing sheer motion.

But as usual, children put it much better and simply call it "Go Zoom-Zoom."

We practice it every day.

It's why we build the kind of cars we do.

Zoom-Zoom.

Can we re-awaken it in you today?

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.

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.

Event Data Recorder

This vehicle is equipped with an event data recorder. In the event of a crash, this device records data related to vehicle dynamics and safety systems for a short period of time. These data can help provide a better understanding of the circumstances in which crashes and injuries occur and lead to the designing of safer vehicles.

Air Conditioning and the Environment

Your Mazda's genuine air conditioner is filled with HFC134a (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.

Perchlorate

Certain components of this vehicle such as [air bag modules, seat belt pretensioners, lithium batteries, ...] may contain Perchlorate Material— Special handling may apply for service or vehicle end of life disposal. See www.dtsc.ca.gov/hazardouswaste/perchlorate.

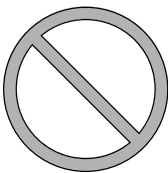
Please be aware that this manual applies to all models, equipment and options. As a result, you may find some explanations for equipment not installed on your vehicle.

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 symbol below 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.

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.

The symbol below, located on some parts of the vehicle, indicates that this manual contains information related to the part. Please refer to the manual for a detailed explanation.



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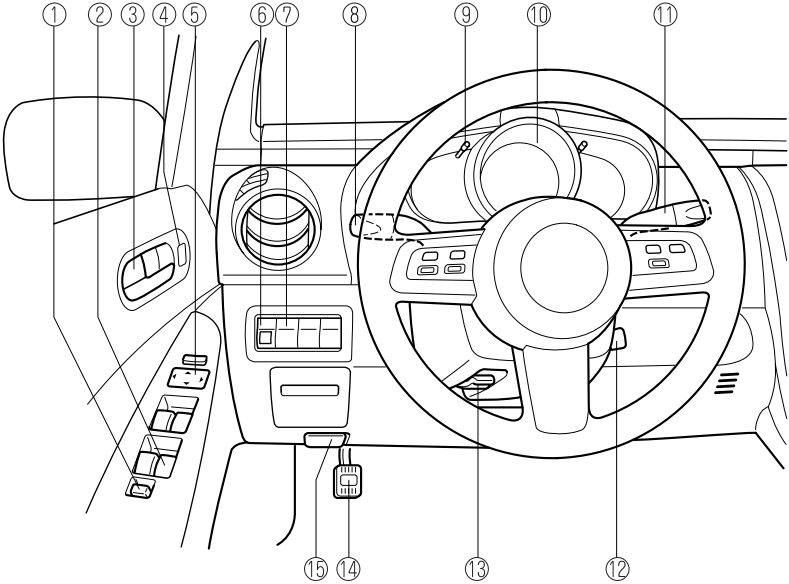
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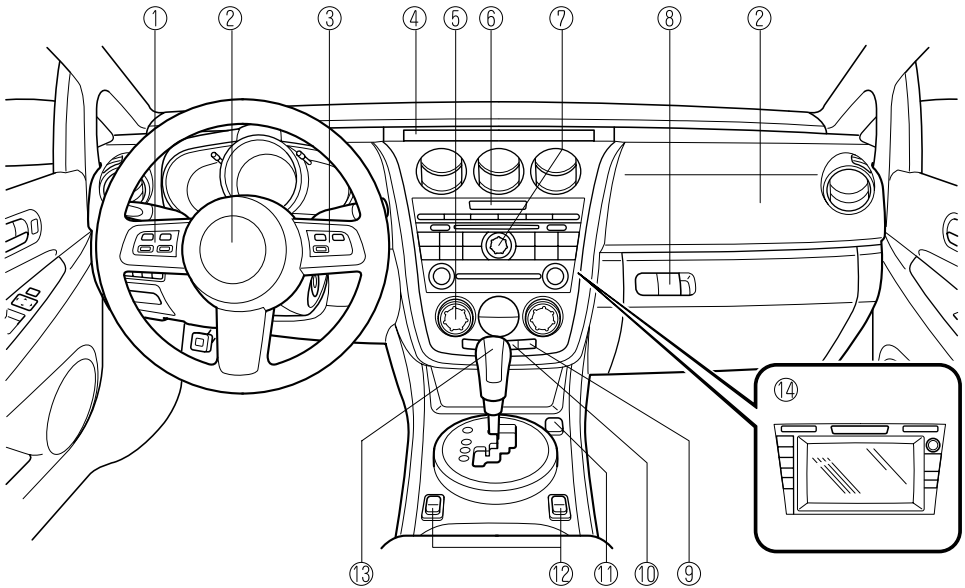
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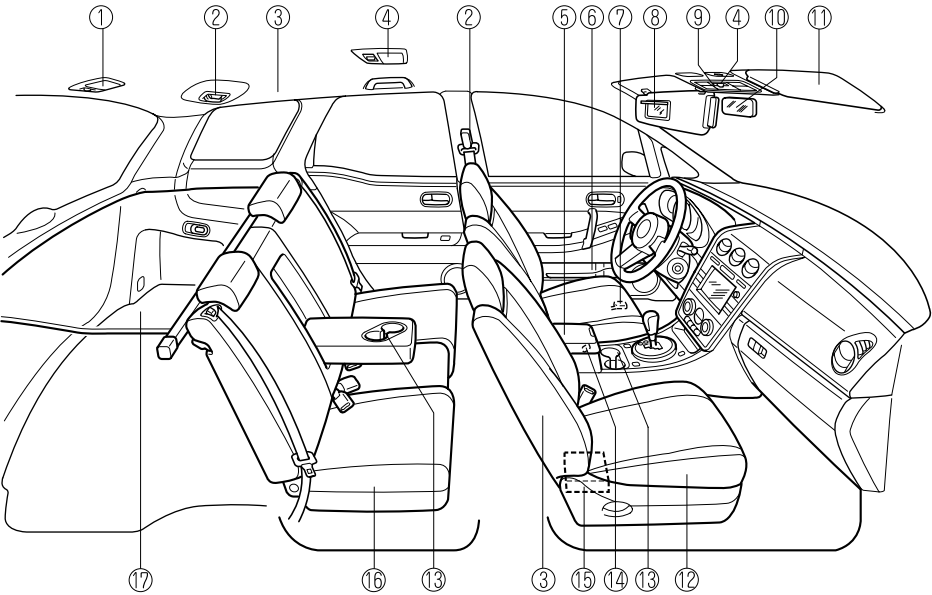
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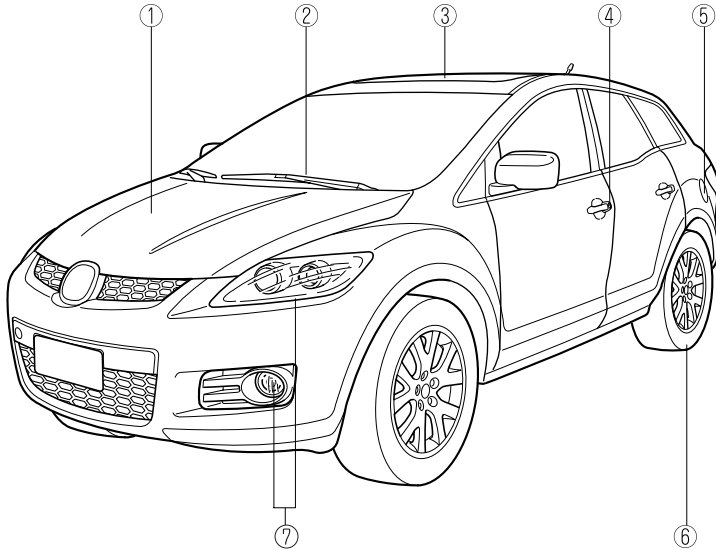
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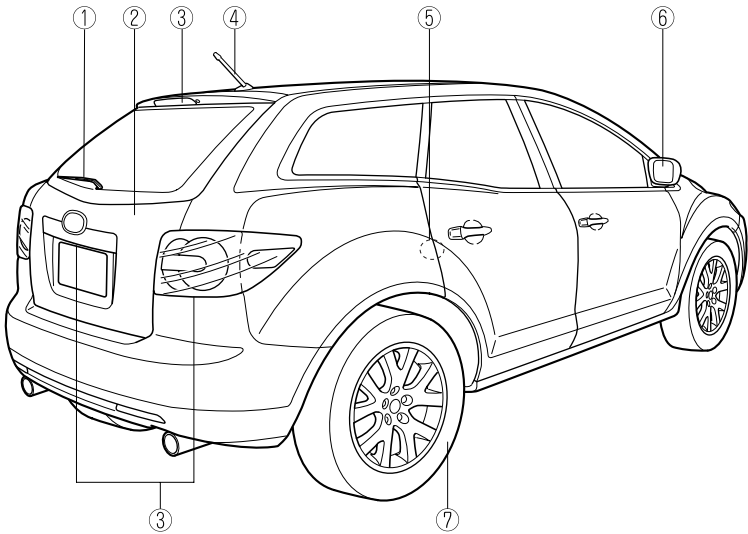
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Essential Safety Equipment

Use of safety equipment, including seats, seat belt system, child-restraint systems and SRS air bags.

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Seats

Front Seats (Manually Operated Seats)

WARNING

Do not modify or replace the front seats:

Modifying or replacing the front seats such as replacing the upholstery or loosening any bolts is dangerous. The front seats contain air bag components essential to the supplemental restraint system. Such modifications could damage the supplemental restraint system and result in serious injury. Consult an Authorized Mazda Dealer if there is any need to remove or reinstall the front seats.

Do not drive with damaged front seats:

Driving with damaged front seats is dangerous. A collision, even one not strong enough to inflate the air bags, could damage the front seats which contain essential air bag components. If there was a subsequent collision, an air bag may not deploy which could lead to injuries. Always have an Authorized Mazda Dealer inspect the front seats, front seat belt pretensioners and air bags after a collision.

WARNING

Make sure the adjustable components of a seat are locked in place:

Adjustable seats and seatbacks that are not securely locked 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.

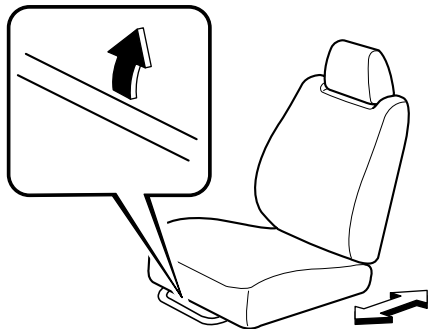
▼ Seat Slide

WARNING

Adjust the driver seat only when the vehicle is stopped:

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

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



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

▼ Seat Recline

WARNING

Do not drive with the seats reclined:
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.

Always sit in a passenger seat properly with the seatback upright and feet on the floor:

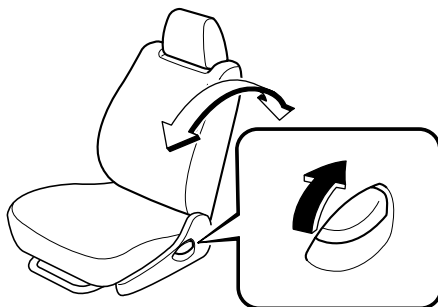
If your vehicle is equipped with front passenger seat weight sensors, sitting in the front passenger seat improperly out of position or with the seatback reclined too far while the vehicle is moving is dangerous as it can take off weight from the seat bottom and affect the weight determination of the front passenger sensing system. As a result the front passenger will not have the supplementary protection of the air bag and seat belt pretensioner, which could cause result in serious injury. Always sit upright against your seatback, with your feet on the floor.

WARNING

Do not drive with the seatback unlocked:

The 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 adjusting the seatback at any time, even when there are no other passengers, rock the seatback to make sure it is locked in place.

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.

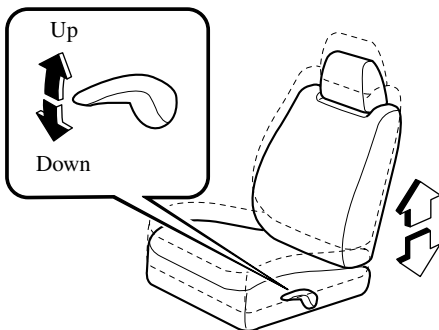
Seats

CAUTION

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

▼ Height Adjustment (Driver's Seat)

By moving the seat lever up or down, the seat bottom height can be adjusted.



▼ Head Restraint

WARNING

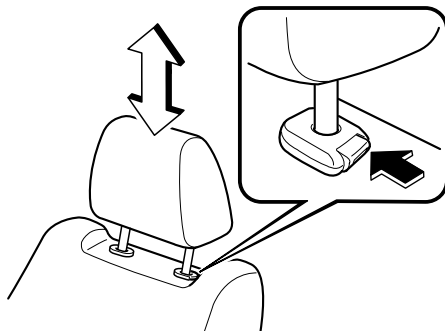
Always drive with the head restraints installed when seats are being used and make sure they are properly adjusted:

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.

Height adjustment

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

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

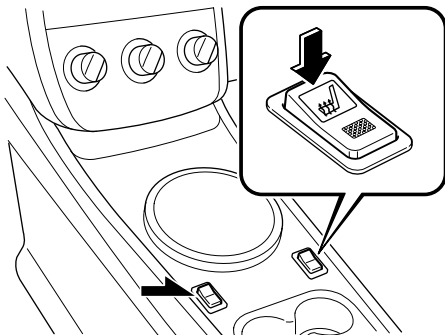


Adjust the head restraint so that the top is even with the top of the passenger's ears, never the passenger's neck.

▼ Seat Warmer*

The front seats are electrically heated. The ignition switch must be in the ON position.

Press the switch to turn the seat warmer on or off. When the switch is in the ON position, the indicator light will come on.



NOTE

The seat temperature is regulated automatically by a thermostat. Other than turning it on or off, it cannot be adjusted.

Front Seats (Electrically Operated Seats)**WARNING**

Do not modify or replace the front seats:

Modifying or replacing the front seats such as replacing the upholstery or loosening any bolts is dangerous. The front seats contain air bag components essential to the supplemental restraint system. Such modifications could damage the supplemental restraint system and result in serious injury. Consult an Authorized Mazda Dealer if there is any need to remove or reinstall the front seats.

Do not drive with damaged front seats:

Driving with damaged front seats is dangerous. A collision, even one not strong enough to inflate the air bags, could damage the front seats which contain essential air bag components. If there was a subsequent collision, an air bag may not deploy which could lead to injuries. Always have an Authorized Mazda Dealer inspect the front seats, front seat belt pretensioners and air bags after a collision.

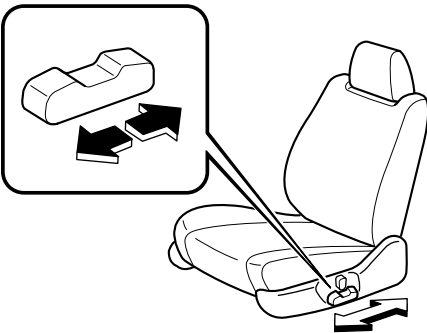
Seats

CAUTION

- The seat-bottom power adjustment is operated by motors. Avoid extended operation because excessive use can damage the motors.
- To prevent the battery from running down, avoid using the power adjustment when the engine is stopped. The adjuster uses a large amount of electrical power.
- Don't use the switch to make more than one adjustment at a time.

▼ Seat Slide

To slide the seat, move the slide lifter switch on the outside of the seat to the front or back and hold it. Release the switch at the desired position.



▼ Seat Recline

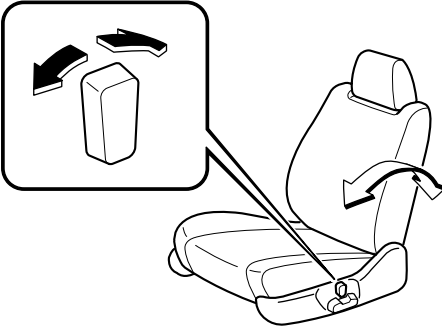
WARNING

Do not drive with the seats reclined: 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.

Always sit in a front passenger seat properly with the seatback upright and feet on the floor:

If your vehicle is equipped with front passenger seat weight sensors, sitting in the front passenger seat improperly out of position or with the seatback reclined too far while the vehicle is moving is dangerous as it can take off weight from the seat bottom and affect the weight determination of the front passenger sensing system. As a result the front passenger will not have the supplementary protection of the air bag and seat belt pretensioner, which could cause result in serious injury. Always sit upright against your seatback, with your feet on the floor.

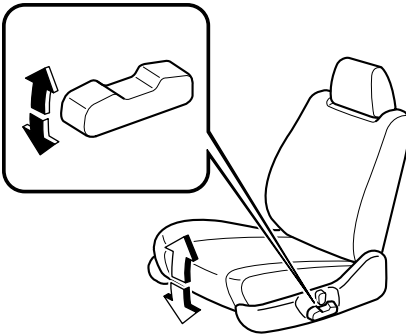
Change the seatback angle by pressing the front or rear side of the reclining switch. Release the switch at the desired position.



▼ Height Adjustment

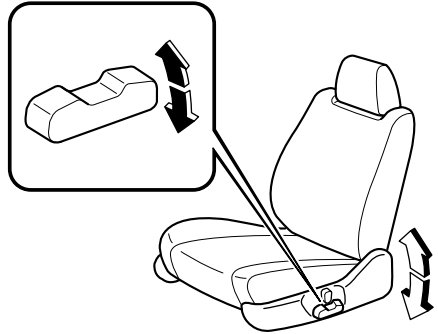
Front of seat bottom

To adjust the front height of the seat bottom, raise or lower the front of the slide lifter switch on the left side of the seat.



Rear of seat bottom

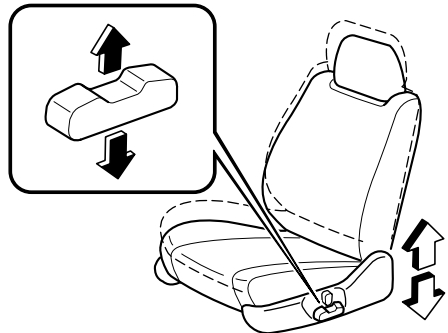
Raise or lower the back of the switch to adjust the rear height of the seat bottom.



Whole seat

Raise the seat by pulling up on the center of the switch. Release the switch at the desired position.

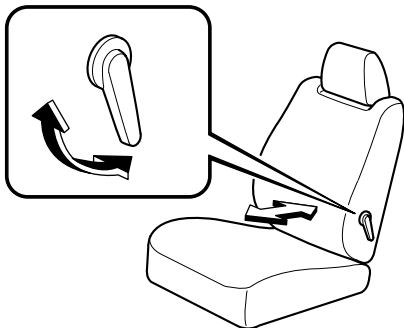
Lower the seat by pressing down on the center of the switch. Release the switch at the desired position.



Seats

▼ Lumbar Support Adjustment

To adjust the lumbar support, pull the lever forward.



▼ Head Restraint



WARNING

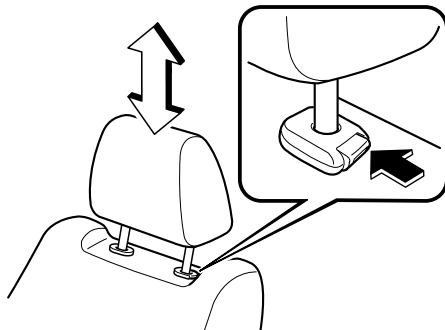
Always drive with the head restraints installed when seats are being used and make sure they are properly adjusted:

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.

Height adjustment

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

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

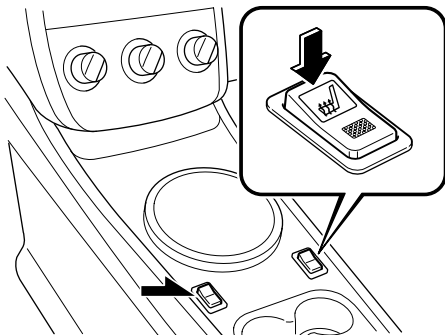


Adjust the head restraint so that the top is even with the top of the passenger's ears, never the passenger's neck.

▼ Seat Warmer*

The front seats are electrically heated. The ignition switch must be in the ON position.

Press the switch to turn the seat warmer on or off. When the switch is in the ON position, the indicator light will come on.



NOTE

The seat temperature is regulated automatically by a thermostat. Other than turning it on or off, it cannot be adjusted.

Rear Seat**WARNING**

Do not stack cargo higher than the seatbacks:

Stacking luggage or other cargo higher than the seatbacks, and placing articles on the rear seat is dangerous. During sudden braking or a collision, objects can fly around and become projectiles that may hit and injure passengers.

Make sure luggage and cargo is secured before driving:

Not securing cargo while driving is dangerous as it could move or be crushed during sudden braking or a collision and cause injury.

Make sure the adjustable components of a seat are locked in place:

Adjustable seats that are not securely locked 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.

Seats

 WARNING

Do not drive with the seatback unlocked:

The 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 seatback at any time, even when there are no other passengers, rock the seatback to make sure it is locked in place.

Never allow a passenger to sit or stand on the folded seatback while the vehicle is moving:

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 vehicle resulting in serious injuries or death. The child in the baggage area could be thrown into other occupants and cause serious injury.

NOTE

When returning a rear seat to its original position, also replace the seat belt to its normal position. Verify that the seat belt pulls out and retracts.

▼ Split-Folding Rear Seatback

The seatbacks can be folded down to provide more space in the luggage compartment.

To fold the seatbacks

 WARNING

Always remove the child-restraint system from the rear seat before operating the remote handle levers for the rear seat:

Operating the remote handle levers while a rear-facing child-restraint system is in the rear seat is dangerous. It could cause injury to a child seated in the child-restraint system when the seatback suddenly flips forward.

Make sure there is nobody in the rear seat area before operating the remote handle levers:

Not checking the rear seat area for persons before folding the seatbacks with the remote handle levers is dangerous. The rear seat area is difficult to see from the rear of the vehicle. Operating the remote handle levers without checking could cause injury to a person when a seatback suddenly flips forward.

 CAUTION

Before folding the seatbacks with the remote handle levers, make sure there is no cup in a rear cup holder. Folding the seatbacks with the remote handle levers while a cup is in the cup holder could soil or damage the seat bottom and seatback.

When using the remote handle levers:**⚠ CAUTION**

Be careful of the following when using the remote handle levers:

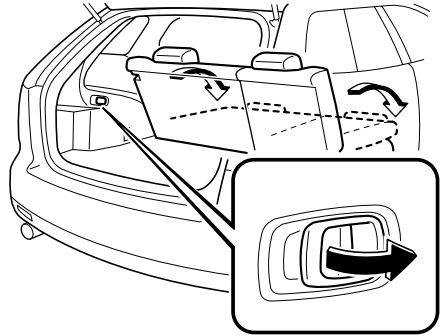
- On a downward slope, the seatback could flip forward faster than on a flat area.
- On an upward slope, the seatback may not fold down. When the seatbacks cannot be folded down with levers, pull the rear seatback forward from inside the vehicle.

1. Unfasten the lap portion of the center-rear seat belt (page 2-22).

⚠ CAUTION

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

2. After checking that the rear seats are clear, open the liftgate compartment and pull the remote handle levers on the left and right side of the liftgate compartment.

**When using the rear seatback knobs:****⚠ CAUTION**

When operating the rear seatback knob, make sure you support the seatback with your hand. If the seatback is not supported with your hand, it will flip forward suddenly and could cause injury to the finger that pushes the rear seatback knob down.

1. Unfasten the lap portion of the center-rear seat belt (page 2-22).

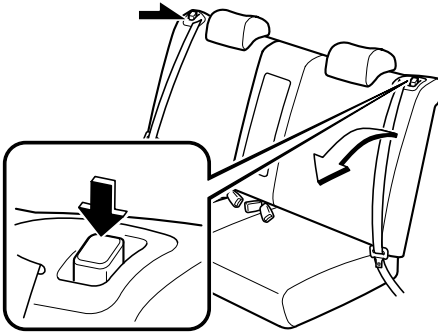
⚠ CAUTION

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 seat belt, buckle and seatback.

2. Support the seatback with your hand.

Seats

3. Push the rear seatback knob down.



To return the seatbacks to the upright position

1. Lift the seatbacks upright.
2. Pull on the top of the seatbacks from inside the vehicle to make sure they are locked.
3. Fasten the center-rear lap/shoulder belt and check that all seat belts are routed properly for passenger use (page 2-22).

! WARNING

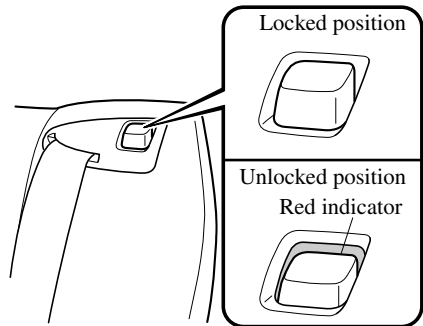
Always make sure the seat belts are fully pulled out from under the seatbacks:

A seat belt caught under a seatback after the seatback is returned to its upright position is dangerous. In a collision or sudden stop, the seat belt cannot provide adequate protection.

! WARNING

When returning the seatback to the upright position, make sure there is no red indication:

A rear seatback not fully returned and locked in the upright position is dangerous. Sudden stops or maneuvering could cause a seatback to flip forward suddenly resulting in injury. If the red indicator is visible on the back of the rear seatback knob, the seatback is not locked in the upright position.



▼ Head Restraint

! WARNING

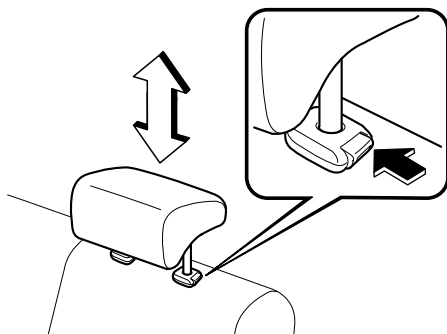
Always drive with the head restraints installed when seats are being used and make sure they are properly adjusted:

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.

Height adjustment

To use a head restraint, pull it up to the locked position.

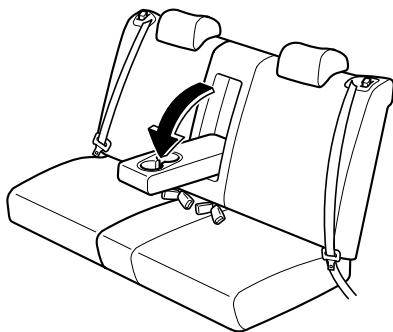
To lower the head restraint, press the stop-catch release, then push the head restraint down.



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

▼ Armrest

The rear armrest in the center of the rear seatback can be used (no occupant in the center seat) or placed upright.



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 all rear lap/shoulder belt retractors operate in two modes: emergency locking mode, and for child-restraint systems, automatic locking mode. While we recommend you put all children in the rear seats, if you must use the front passenger seat for a child, slide the front passenger seat as far back as possible and make sure any child-restraint system is secured properly.



WARNING

Always wear your seat belt and make sure all occupants are properly restrained:

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.

Do not operate a vehicle with a damaged seat belt:

Using a damaged seat belt is dangerous. An accident could damage the belt webbing of the seat belt in use. A damaged seat belt cannot provide adequate protection in a collision. Front air bags and pretensioners work together, regardless of whether or not a front seat was occupied during a collision, or whether or not any air bag and seat belt pretensioner deployed all front seat belts and air bags must be inspected and replaced if necessary. Have an Authorized Mazda Dealer inspect all seat belt systems in use during an accident before they are used again.

Do not wear twisted seat belts:

Twisted seat belts are dangerous. In a collision, the full width of the belt is not available to absorb the impact. This puts more force on the bones beneath the belt, which could cause serious injury or death.

 WARNING

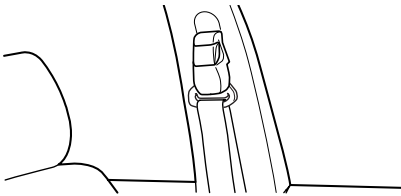
Never use one seat belt on more than one person at a time:

Using one seat belt for more than one person at a time is dangerous. A seat belt used in this way cannot 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 and always operate the vehicle with each occupant properly restrained.

In a rollover crash, an unbelted person is significantly more likely to die than a person wearing a seat belt.

 CAUTION

Belt retraction may become difficult if the belts and rings are soiled, so try to keep them clean. For more details about cleaning the seat belts, refer to “Cleaning the Lap/Shoulder Belt Webbing” (page 8-57).



▼ Pregnant Women and Persons with Serious Medical Conditions

Pregnant women should always wear seat belts. Ask your doctor for specific recommendations.

The lap belt should be worn **SNUGLY AND AS LOW AS POSSIBLE OVER THE HIPS**. The shoulder belt should be worn across your shoulder properly, but never across the stomach area.

Persons with serious medical conditions also should wear seat belts. Check with your doctor for any special instructions regarding specific medical conditions.



Seat Belt Systems

▼Emergency Locking Mode

In the emergency locking mode, the belt remains comfortable on the occupant and the retractor will lock in position during a collision. When the seat belt is fastened, it will always be in the emergency locking mode until it is switched to automatic locking mode by pulling it all the way out to its full length. If the belt feels tight and hinders comfortable movement while the vehicle is stopped or in motion, it may be in the automatic locking mode because the belt has been pulled too far out. To return to the belt to the more comfortable emergency locking mode, wait until the vehicle has stopped in a safe, level area, retract the belt fully to convert it back to emergency locking mode and then extend it around you again.

▼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 enable seat belt 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 2-28).

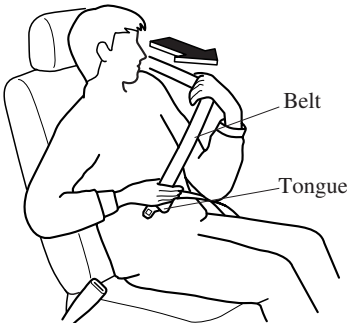
Seat Belt (Except Center-Rear Position)

NOTE

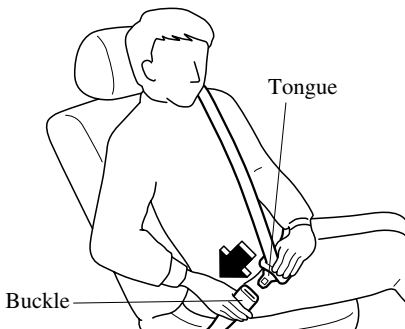
When using the center-rear seat belt, refer to “Center-Rear Position Seat Belt” (page 2-22).

▼ Fastening the Seat Belt

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



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

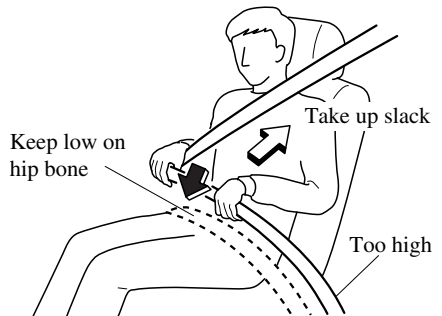


WARNING

Positioning the Shoulder Portion of the Seat Belt:

Improper positioning of the shoulder portion of the seat belt is dangerous. 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. Position the lap belt as low as possible, not on the abdominal area, then adjust the shoulder belt so that it fits snugly against your body.



WARNING

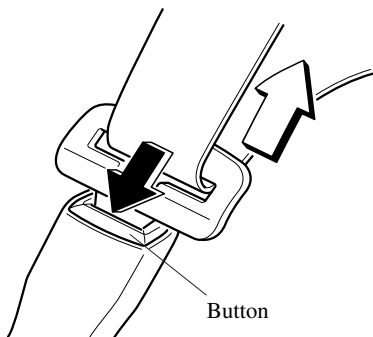
Positioning the Lap Portion of the Seat Belt:

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.

Seat Belt Systems

▼ Unfastening the Seat Belt

Depress the button on the buckle. If the belt does not fully retract, pull it out and check for kinks or twists. Then make sure it remains untwisted as it retracts.

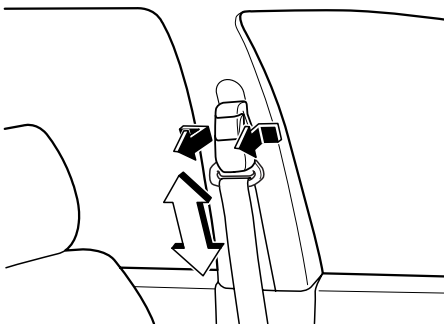


NOTE

If a belt does not fully retract, inspect it for kinks and twists. If it is still not retracting properly, have it inspected at an Authorized Mazda Dealer.

▼ Shoulder Belt Adjuster

Adjust the height of the shoulder belt if the seat belt touches your neck, or if it crosses your arm instead of your shoulder. To raise the shoulder belt adjuster, push the adjuster up. To lower the shoulder belt adjuster, pull the adjuster and slide it down. Make sure the adjuster is locked.



WARNING

Positioning the Shoulder Portion of the Seat Belt:

Improper positioning of the shoulder portion of the seat belt is dangerous. 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.

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. For both these systems to work properly you must wear the seat belt properly.

Pretensioners:

The front seat belt retractors remove slack quickly as the air bags are expanding. For deployment details, refer to the SRS Air Bag Deployment Criteria (page 2-58). In addition, the pretensioner system for the front passenger, like the front passenger air bag, is designed to only deploy in accordance with the total seated weight on the front passenger seat. Any time the air bags and seat belt pretensioners have fired they must be replaced. For details, refer to the driver and front passenger occupant classification system (page 2-61).

Load limiter:

The load limiting system releases belt webbing in a controlled manner to reduce belt force on the occupant's chest. While the most severe load on a seat belt occurs in frontal collisions, the load limiter has an automatic mechanical function and can activate in any accident mode with sufficient occupant movement. Even if the pretensioners have not fired, the load limiting function must be checked by an Authorized Mazda Dealer.



WARNING

Wear seat belts only as recommended in this owner's manual:
Incorrect positioning of the driver and front passenger seat belts is dangerous. Without proper positioning, the pretensioner and load limiting systems cannot provide adequate protection in an accident and this could result in serious injury. For more details about wearing seat belts, refer to "Fastening the seat belts" (page 2-17).

Seat Belt Systems



WARNING

Have your seat belts changed immediately if the pretensioner or load limiter has been expended:

One or both front air bags may deploy, and the corresponding pretensioner(s) may also deploy at the same time.

While it is safer to use a crash-used seat belt that was used in an accident than no seat belt at all, using a seat belt with an expended pretensioner or load limiter loaded reduces the safety available to you. Like the air bags, the seat belt pretensioners will only function once. After they are expended, they will not function again and must be replaced immediately. If the seat belt pretensioners are not replaced, the risk of injury in a collision will increase. Always have an Authorized Mazda Dealer inspect the seat belt pretensioners and air bags after any collision. Expended seat belt pretensioners and air bags must be replaced after any collision which caused them to deploy. Additionally, the load limiter will only limit loads on the chest once in a collision and this is another reason to have the front seat belts inspected.

Do not modify the components or wiring, or use electronic testing devices on 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. The occupants or repairers could be seriously injured.



WARNING

Properly dispose of the pretensioner system:

Improper disposal of the pretensioner system or a vehicle with non-deactivated 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 pretensioner-equipped vehicle.

NOTE

- The pretensioner system will activate in a moderate or severe frontal, near-frontal collision or roll-over accident. The pretensioner system for the front passenger is designed to only deploy in accordance with the total seated weight on the front passenger seat. It will not activate in most 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.

▼ Air Bag/Front Seat Belt Pretensioner System Warning Light



If the air bag/front seat belt pretensioner system is normal, the warning light illuminates when the ignition switch is turned to the ON position or after the engine is cranked. For a specified period of time it goes out.

A system malfunction is indicated when the warning light constantly flashes, constantly illuminates or doesn't illuminate at all when the ignition switch is turned to the ON position. If any of these occur, consult an Authorized Mazda Dealer as soon as possible. The system may not work in an accident.

WARNING

Never tamper with the air bag/pretensioner systems and always have an Authorized Mazda Dealer perform all servicing and repairs:
Self-servicing or tampering with the systems is dangerous. An air bag/pretensioner could accidentally activate or become disabled causing serious injury or death.

▼ Air Bag/Front Seat Belt Pretensioner System Warning Beep

If a malfunction is detected in both the air bag/front seat belt pretensioner system and the warning light, a warning beep sound will be heard for about 1 minute. After that, the one-minute beep will be repeated every 30 minutes.

Have your vehicle inspected at an Authorized Mazda Dealer as soon as possible.

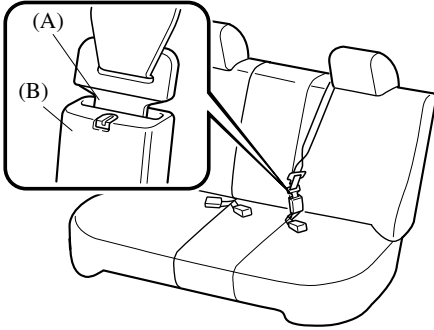
WARNING

Do not drive the vehicle with the air bag/front seat belt pretensioner system warning beep sounding:
Driving the vehicle with the air bag/front seat belt pretensioner system warning beep sounding is dangerous. In a collision, the air bags and the front seat belt pretensioner system will not deploy and this could result in death or serious injury.
Contact an Authorized Mazda Dealer to have the vehicle inspected as soon as possible.

Seat Belt Systems

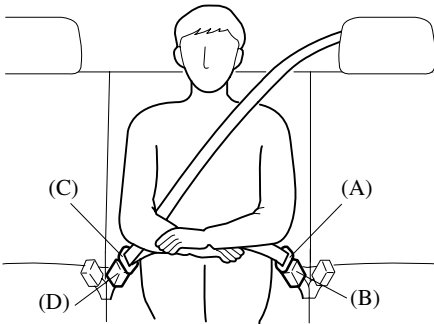
Center-Rear Position Seat Belt

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



▼ Fastening the Seat Belt

1. Grasp the 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 Center-Rear Seat Belt with Only One Buckle:

Fastening the center-rear seat belt with only 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.

Positioning the Shoulder Portion of the Seat Belt:

Improper positioning of the shoulder portion of the seat belt is dangerous. 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. Position the lap belt as low as possible, not on the abdominal area, then adjust the shoulder belt so that it fits snugly against your body.

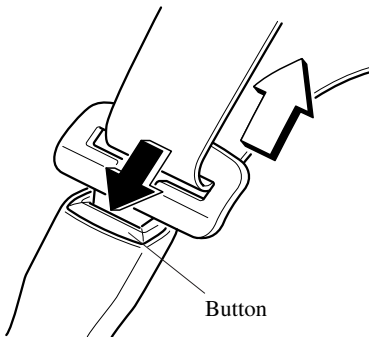
⚠ WARNING

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.

▼ Unfastening the Seat Belt

Depress the button on the buckle. If the belt does not fully retract, pull it out and check for kinks or twists. Then make sure it remains untwisted as it retracts.

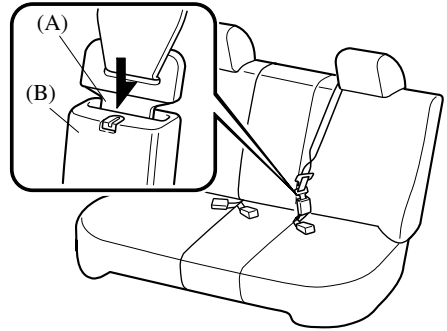


NOTE

If a belt does not fully retract, inspect it for kinks and twists. If it is still not retracting properly, have it inspected at an Authorized Mazda Dealer.

▼ Unfastening the Lap Portion of the Seat Belt

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



⚠ CAUTION

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

NOTE

To encourage rear seat passengers to wear their seat belts, we suggest leaving the center-rear lap position of the belt fastened at all times except when folding the rear seat forward.

Seat Belt Systems

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

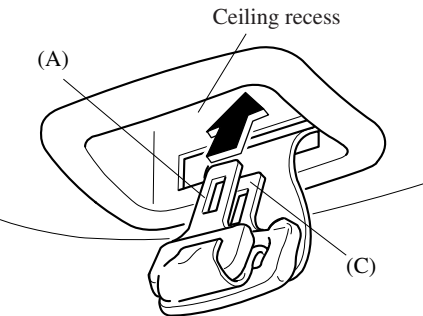
▼Stowing and pulling out the Center-Rear Position Seat Belt

The center-rear position seat belt can be stowed using the following procedure.

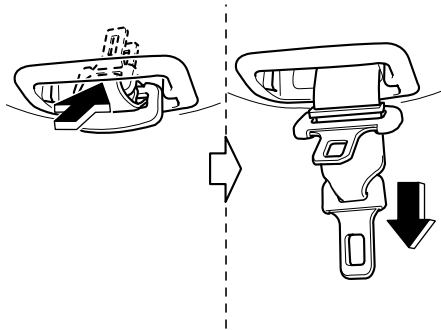
⚠ CAUTION

When stowing the seat belt, make sure the belt is locked securely into the recess. If the seat belt is not locked securely, it could fall down suddenly and cause injury.

To stow the seat belt, retract the belt, put tongues (A) and (C) together and insert them into the recess.



To pull out the seat belt, slide tongue (A) with your finger while moving it downward, and slowly pull out the seat belt from the ceiling recess.



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

Do not use a seat belt extender unless it is necessary:

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.

Do not use 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.

WARNING

Do not use 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. Do not 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 15cm (6 in).

NOTE

When not in use, remove the seat belt extender and store it in the vehicle. If the seat belt extender is left connected, the seat belt extender might get damaged as it will not retract with the rest of the seat belt and can easily fall out of the door when not in use and be damaged. In addition, the seat belt warning light will not illuminate and function properly.

Seat Belt Warning Light/Beep



The seat belt warning light illuminates and a beep sound will be heard if the driver's seat belt is not fastened when the ignition switch is turned to the ON position.

Conditions of operation

Condition	Result
The driver's seat belt is not fastened when the ignition switch is turned to the ON position.	The warning light flashes and a beep sound will be heard for about 6 seconds.
The driver's seat belt is fastened while the warning light and the beep sound are activated.	The warning light turns off and the beep sound stops.
The driver's seat belt is fastened before the ignition switch is turned to the ON position.	The warning light will not illuminate and the beep sound will not be heard.

▼ Belt Minder

NOTE
The belt minder can be deactivated. Consult an Authorized Mazda Dealer to deactivate and restore the seat belt minder.

Driver seated/Front passenger not seated

The belt minder is a supplemental warning to the seat belt warning function. If the driver's seat belt is not fastened when the ignition switch is turned to the ON position, the warning light/beep operates to give you further reminders according to the chart below.

Condition	Vehicle speed			
	Between 0 — 20 km/h (0 — 12 mph)		20 km/h (12 mph) or more	
Seat belt	○	×	○	×
Indicator		⬆		⬆
Beep				🎵

- : Fastened
- × : Unfastened
- ⬆ : Illuminated
- ⬆ : Flashing
- 🎵 : Beep

Once the beep sound is heard, it continues sounding even if the vehicle speed lowers to 20 km/h (12 mph) or less until the seatbelt is fastened or the beep sound period has passed.

Seat Belt Systems

Driver seated/Front passenger seated

The seat belt warning function reminds the front passenger to fasten the seat belt according to the chart below.

Condition	Vehicle speed							
	Between 0 — 20 km/h (0 — 12 mph)				20 km/h (12 mph) or more			
Seat belt (Driver)	○	○	×	×	○	○	×	×
Seat belt (Passenger)	○	×	○	×	○	×	○	×
Indicator			⬮	⬮		⬮	⬮	⬮
Beep						♪	♪	♪

- : Fastened
- ×
- ⬮ : Illuminated
- ⬮ : Flashing
- ♪ : Beep

Placing heavy items on the front passenger seat may cause the front passenger seat belt warning function to operate depending on the weight of the item.

Once the beep sound is heard, it continues sounding even if the vehicle speed lowers to 20 km/h (12 mph) or less until the seatbelt is fastened or the beep sound period has passed.

NOTE

- To allow the front passenger seat weight sensor to function properly, do not place and sit on an additional seat cushion on the front passenger seat. The sensor may not function properly because the additional seat cushion could cause sensor interference.
- When a small child sits on the front passenger seat, it is possible that neither the warning light nor the warning beep operate.

Child Restraint Precautions

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

You are required by law to use a child-restraint system for children in the U.S. and Canada. Check your local and state or provincial laws for specific requirements regarding the safety of children riding in your vehicle.

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

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 of the vehicle in the outboard seats, and towards the buckle on the right if the child is seated on the center seat.

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

A rear-facing child-restraint system should **NEVER** be used on the front seat with the air bag system activated. The front passenger's seat is also the least preferred seat for other child-restraint systems.

To reduce the chance of injuries caused by deployment of the front passenger air bag, your vehicle is equipped with the front passenger seat weight sensors. These sensors deactivate the front passenger front and side air bags and also the front passenger seat belt pretensioner system when the total seated weight on the front passenger seat is less than approximately 30 kg (66 lb).

When an infant or small child sits on the front passenger seat, the system shuts off the front passenger air bag, so make sure the front passenger air bag deactivation indicator light illuminates.

Even if the front passenger air bag is shut off, Mazda strongly recommends that children be properly restrained and child-restraint systems of all kinds are properly secured on the rear seats which are the best place for children.

For more details, refer to “Front passenger seat weight sensors” (page 2-61).

 WARNING

Use the correct size 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:

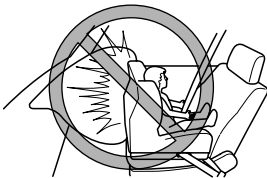
An unsecured child-restraint system is dangerous. In a sudden stop or a collision it could move causing serious injury or death to the child or other occupants. Make sure any child-restraint system is properly secured in place according to the child-restraint system manufacturer's instructions. When not in use, remove it from the vehicle or fasten it with a seat belt, or latch it down to BOTH LATCH lower anchors for LATCH child-restraint systems, and attach the corresponding tether anchor.

Always secure a child in a proper child-restraint system:

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. Even in a moderate accident, the child may be exposed to air bag forces that could result in serious injury or death to the child, or the child may be slammed into an adult, causing injury to both child and adult.

Never use a rear-facing child-restraint system in the front seat with an air bag that could deploy:

Rear-facing child-restraint systems on the front seat are particularly dangerous even though you may feel assured that a front passenger air bag will not deploy based on the fact that the front passenger air bag deactivation indicator light illuminates. 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.



Child Restraint

WARNING

Avoid putting a front-facing child-restraint system on the front passenger seat:

A front-facing child-restraint system should only be put on the front seat when it is unavoidable. In a collision, the force of a deploying air bag could cause serious injury or death to the child. Always move the seat as far back as possible.



Seating a child in a child-restraint system on the front passenger seat is dangerous:

Your vehicle is equipped with front passenger seat weight sensors. Even with front passenger seat weight sensors, if you must use the front passenger seat to seat a child, using a child-restraint system on the front passenger seat under the following conditions increases the danger of the front passenger air bag deploying and could result in serious injury or death to the child.

- *The total seated weight of the child with the child-restraint system on the front passenger seat is approximately 30 kg (66 lb) or more with a child in the child-restraint system.*
- *Luggage or other items are placed on the seat with the child in the child-restraint system.*
- *A rear passenger or luggage pushing or pulling down on the front passenger seatback.*
- *A rear passenger puts their feet on the front seat rails.*
- *Luggage or other items are placed on the seatback or hung on the head restraint.*
- *The seat is washed.*
- *Liquids are spilled on the seat.*
- *The front passenger seat is moved backward, pushing into luggage or other items placed behind it.*
- *The front passenger seatback contacts the rear seat.*
- *Luggage or other items are placed between the front passenger seat and driver seat.*
- *Any accessories increasing the total seated weight on the front passenger seat are attached to the front passenger seat.*

The designated positions with seat belts on the rear seats are the safest places for children. Always use seat belts and child restraints.

 WARNING

Do not allow a child to lean over or against the side window of a vehicle with side and curtain air bags:

It is dangerous to allow anyone to lean over or against the side window, the area of the front passenger seat, the front and rear window pillars and the roof edge along both sides from which the side and curtain air bags deploy, even if a child-restraint system is used. If the vehicle is equipped with side and curtain air bags, the impact of inflation could cause serious injury or death to the child. Furthermore, leaning over or against the front door could block the side and curtain air bags and eliminate the advantages of supplemental protection. With the front air bag and the additional side air bag that comes out of the front seat, the rear seat is always a better location for children. Do not allow a child to lean over or against the side window, even if the child is seated in a child-restraint system.

Never use one seat belt on more than one person at a time:

Using one seat belt for more than one person at a time is dangerous. A seat belt used in this way cannot 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 and always operate the vehicle with each occupant properly restrained.

Always remove the child-restraint system from the rear seat before operating the remote handle levers for the rear seat:

Operating the remote handle levers while a rear-facing child-restraint system is in the rear seat is dangerous. It could cause injury to a child seated in the child-restraint system when the seatback suddenly flips forward.

 CAUTION

A seat belt or child-restraint system can become very hot in a closed vehicle during warm weather. To avoid burning yourself or a child, check them before you or your child touches them.

NOTE

Your Mazda is equipped with LATCH lower anchors for attachment of specially designed LATCH child-restraint systems in the rear seat. When using these anchors to secure a child-restraint system, refer to “LATCH Child-Restraint Systems” (page 2-42).

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.

Even if your vehicle is equipped with front passenger seat weight sensors (page 2-61), which automatically deactivates the front passenger air bag, a rear seat is the safest place for a child of any age or size.

Some child-restraint systems also employ specially designed LATCH attachments; refer to “LATCH Child-Restraint Systems” (page 2-42).

 WARNING

Tethered Child-Restraint Systems Work Only on Tether-Equipped Rear Seats:

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 child-restraint system goes forward without benefit of being tethered.

Place tether equipped child-restraint systems where there are tether anchors.

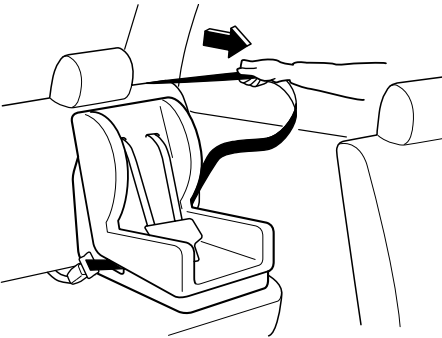
▼ Rear Outboard Seat Child-Restraint System Installation

Follow these instructions when using a child-restraint system, unless you are attaching a LATCH-equipped child-restraint system to the rear LATCH lower anchors. Refer to “LATCH Child-Restraint Systems” (page 2-42).

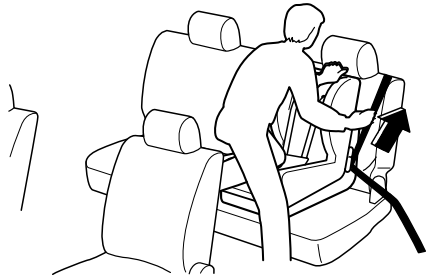
NOTE

Follow the child-restraint system manufacturer's instructions carefully. If you are not sure whether you have a LATCH system or tether, check in the child-restraint system manufacturer's instructions and follow them accordingly. Depending on the type of child-restraint system, it may not employ seat belts which are in automatic locking mode.

1. Make sure the seatback is securely latched by pushing it back until it is fully locked.
2. Secure the child-restraint system with the lap portion of the lap/shoulder belt. See the manufacturer's 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.



4. 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.



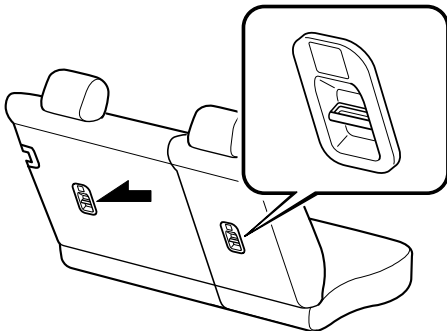
NOTE

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.

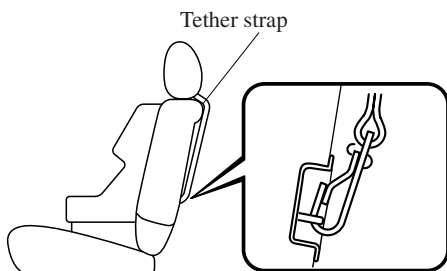
5. If your child-restraint system requires the use of a tether strap, hook and tighten the tether strap after raising the head restraint by following the manufacturer's instructions.

Child Restraint

Anchor bracket location



Tether strap position



WARNING

Use the tether and tether anchor only for a child-restraint system:

Using the tether or tether anchor to secure anything but a child-restraint system is dangerous. This could weaken or damage the tether or tether anchor and result in injury.

Always route the tether strap between the head restraint and the seatback:
Routing the tether strap on top of the head restraint is dangerous. In a collision the tether strap could slide off the head restraint and loosen the child-restraint system. The child-restraint system could move which may result in death or injury to the child.

▼Center-Rear Seat Child-Restraint System Installation

Follow these instructions when using a child-restraint system, unless you are attaching a LATCH-equipped child-restraint system to the rear LATCH lower anchors. Refer to “LATCH Child-Restraint Systems” (page 2-42).



WARNING

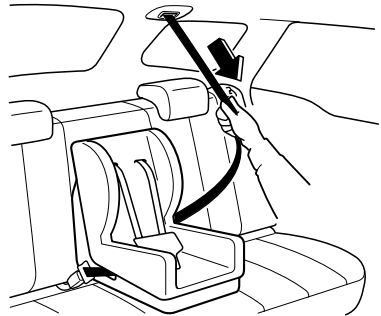
Use the tether and tether anchor only for a child-restraint system:
Using the tether or tether anchor to secure anything but a child-restraint system is dangerous. This could weaken or damage the tether or tether anchor and result in injury.

Always attach the tether strap to the correct tether anchor position:
Attaching the tether strap to the incorrect tether anchor position is dangerous. In a collision, the tether strap could come off and loosen the child-restraint system. If the child-restraint system moves it could result in death or injury to the child.

NOTE

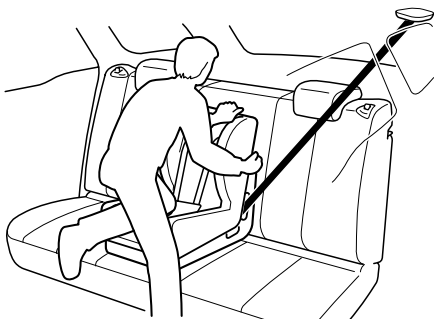
Follow the child-restraint system manufacturer's instructions carefully. If you are not sure whether you have a LATCH system or tether, check in the child-restraint system manufacturer's instructions and follow them accordingly. Depending on the type of child-restraint system, it may not employ seat belts which are in automatic locking mode.

1. Make sure the seatback is securely latched by pushing it back until it is fully locked.
2. Secure the child-restraint system with the lap portion of the lap/shoulder belt. See the manufacturer's 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.



Child Restraint

4. 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.

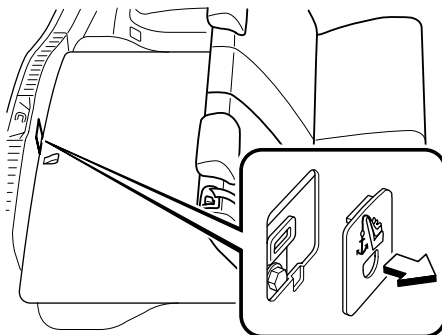


NOTE

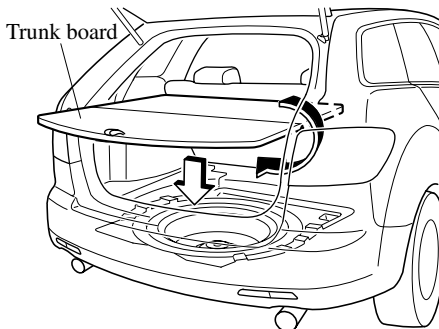
Inspect this function before each use of the child-restraint system. You should not be able to pull the shoulder belt out of the retractor while the system is in the automatic locking mode. When you remove the child-restraint system, be sure the belt fully retracts to return the system to emergency locking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

Type A

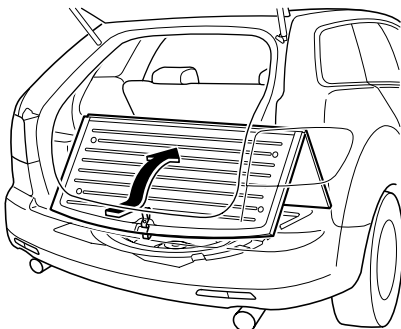
1. If your child-restraint system requires the use of a tether strap, hook and tighten the tether strap. First, remove the anchor bracket cover on the rear end trim.



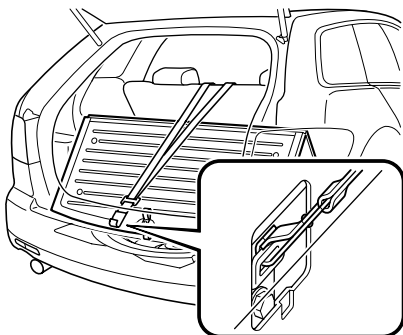
2. Flip over the trunk board.



3. Fold the trunk board into the position shown in the figure.



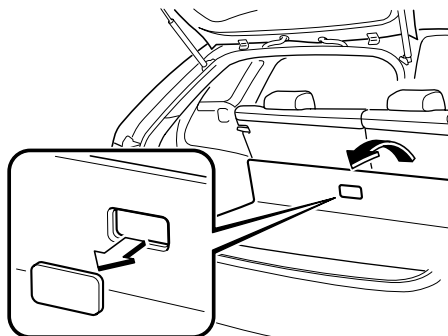
4. Latch the hook onto the anchor bracket, and tighten the tether strap following the child-restraint system manufacturer's instructions.



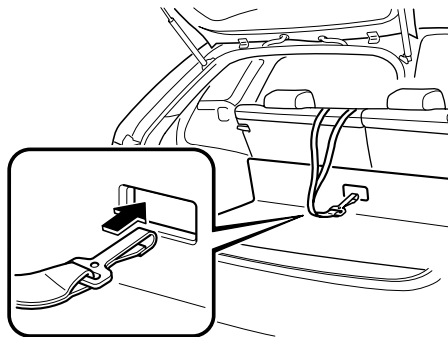
5. Push the trunk board down to its original position.

Type B

1. If your child-restraint system requires the use of a tether strap, hook and tighten the tether strap. First, pull up the front part of the trunk board and remove the anchor bracket cover on the trunk board.

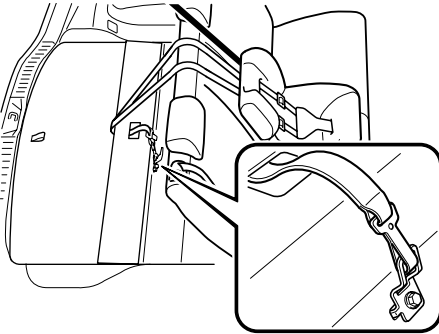


2. Pass the tether strap through the hole.



Child Restraint

3. Latch the hook onto the anchor bracket.



4. Push the trunk board down to its original position, and tighten the tether strap following the child-restraint system manufacturer's instructions.

▼ If You Must Use the Front Seat for Children

If you cannot put all children in the rear seat, at least put the smallest children in the rear and be sure the largest child up front uses the shoulder belt over the shoulder.

NEVER put a rear-facing child-restraint system on the front passenger seat, even with a seat weight sensor equipped vehicle.

This seat is also not set up for tethered child-restraint systems, put them in one of the rear seat positions set up with tether anchors.

Likewise the LATCH child-restraint system cannot be secured in the front passenger's seat and should be used in the rear seat.

Don't allow anyone to sleep against the side window if you have an optional side and curtain air bag, it could cause serious injuries to an out 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

- To check if your front seats have side air bags:
Mazda vehicles equipped with side air bag will have a “SRS AIRBAG” tag on the outboard shoulder of the front seats.
- To check if your vehicle has curtain air bags:
Every Mazda curtain air bag will have an “SRS AIRBAG” marking on the front and rear window pillars along the roof edge.

 WARNING

Always move the front passenger seat as far back as possible if installing a front-facing child-restraint system on it is unavoidable:

As your vehicle has front air bags and doubly so if your vehicle has side air bags, a front-facing child-restraint system should be put on the front passenger seat only when it is unavoidable.

Even if the front passenger air bag deactivation indicator light illuminates, 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.

 WARNING

Never use a rear-facing child-restraint system in the front seat with an air bag that could deploy:

Rear-facing child-restraint systems on the front seat are particularly dangerous.

Even in a moderate collision, 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. Even though you may feel assured that the front passenger air bag will not deploy based on the fact that the front passenger air bag deactivation indicator light illuminates.

Child Restraint



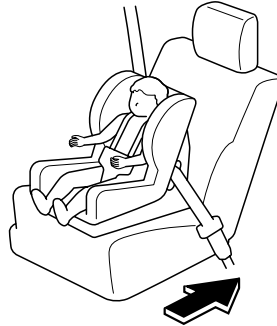
WARNING

Do not allow a child to lean over or against the side window of a vehicle with side and curtain air bags:

It is dangerous to allow anyone to lean over or against the side window, the area of the front passenger seat, the front and rear window pillars and the roof edge along both sides from which the side and curtain air bags deploy, even if a child-restraint system is used. If the vehicle is equipped with side and curtain air bags, the impact of inflation could cause serious injury or death to the child. Furthermore, leaning over or against the front door could block the side and curtain air bags and eliminate the advantages of supplemental protection. With the front air bag and the additional side air bag that comes out of the front seat, the rear seat is always a better location for children. Do not allow a child to lean over or against the side window, even if the child is seated in a child-restraint system.

▼ Front Passenger's Seat Child-Restraint System Installation

1. Slide the seat as far back as possible.

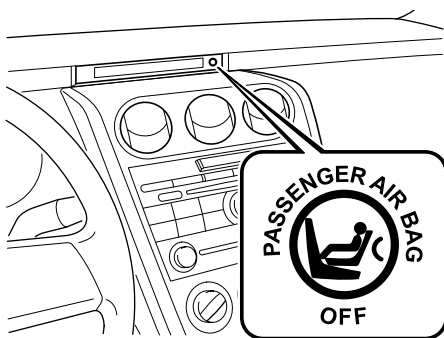


2. Secure the child-restraint system with the lap portion of the lap/shoulder belt. See the manufacturer's instructions on the child-restraint system for belt routing instructions.
3. To get the retractor into the automatic locking mode, pull the shoulder belt portion of the seat belt until the entire length of the belt is out of the retractor.
4. 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 automatic locking mode. If the belt does not lock the seat down tight, repeat the previous step and also this one.

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.
- Follow the child-restraint system manufacturer's instructions carefully. Depending on the type of child-restraint system, it may not employ seat belts which are in automatic locking mode.

5. Make sure the front passenger air bag deactivation indicator light illuminates after installing a child-restraint system on the front passenger seat. Refer to Front passenger air bag deactivation indicator light on page 2-61.



WARNING

Seating a Child in a Child-Restraint System on the Front Passenger Seat With the Front Passenger Air Bag Deactivation Indicator Light Not Illuminated:

While it is always better to install any child-restraint system on the rear seat, it is essential to do so if the front passenger air bag deactivation indicator light does not illuminate (page 2-61). Seating a child in a child-restraint system installed on the front passenger seat with the front passenger air bag deactivation indicator light not illuminated is dangerous. If this indicator light does not illuminate even when the total seated weight is less than approximately 30 kg (66 lb), this means that the front passenger front and side air bags, and seat belt pretensioner are ready for deployment. If an accident were to deploy an air bag, a child sitting in the front passenger seat could be seriously injured or killed. If the indicator light does not illuminate after installing a child-restraint system on the front passenger seat, install the child-restraint system on the rear seat and consult an Authorized Mazda Dealer as soon as possible.

Child Restraint

LATCH Child-Restraint Systems

Your Mazda is equipped with LATCH lower anchors for attachment of specially designed LATCH child-restraint systems in the rear seat. Both anchors must be used, otherwise the seat will bounce around and put the child in danger. Most LATCH child-restraint systems must also be used in conjunction with a tether to be effective. If they have a tether you must use it to better assure your child's safety.

WARNING

Follow the manufacturer's instructions for the use of the child-restraint system:

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 child-restraint system manufacturer's instructions.

Never attach two child-restraint systems to the same LATCH lower anchor:

Attaching two child-restraint systems to the same LATCH lower anchor is dangerous. In a collision, one anchor may not be strong enough to hold two child-restraint system attachments, and it may break, causing serious injury or death. If you use the seat position for another child-restraint system when an outboard LATCH position is occupied, use the center seat belts instead, and the tether if tether-equipped.

Make sure the child-restraint system is properly secured:

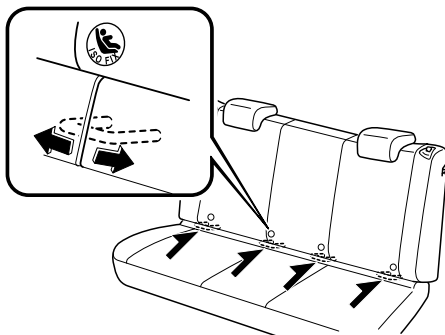
An unsecured child-restraint system is dangerous. In a sudden stop or a collision it could move causing serious injury or death to the child or other occupants. Follow the child-restraint system manufacturer's instructions on belt routing to secure the seat just as you would with a child in it so that nobody is tempted to put a child in an improperly secured seat later on. When not in use, remove it from the vehicle or fasten it with a seat belt, or latch it down to BOTH LATCH lower anchors for LATCH child-restraint systems.

Make sure there are no seat belts or foreign objects near or around the LATCH child-restraint system:

Not following the child-restraint system manufacturer's instructions when installing the child-restraint system is dangerous. If seat belts or a foreign object prevent the child-restraint system from being securely attached to the LATCH lower anchors and the child-restraint system is installed improperly, the child-restraint system could move in a sudden stop or collision causing serious injury or death to the child or other occupants. When installing the child-restraint system, make sure there are no seat belts or foreign objects near or around the LATCH lower anchors. Always follow the child-restraint system manufacturer's instructions.

▼ Child-Restraint System Installation Procedure (Rear Outboard Seats)

1. Make sure the seatback is securely latched by pushing it back until it is fully locked.
2. Expand the open seams on the rear of the seat bottom slightly to verify the locations of the LATCH lower anchors.

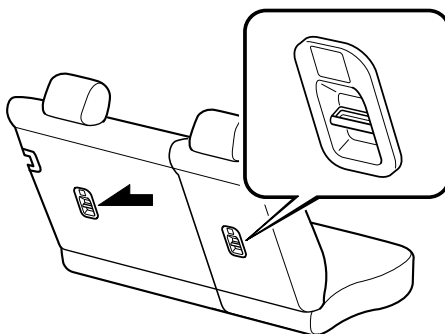


NOTE

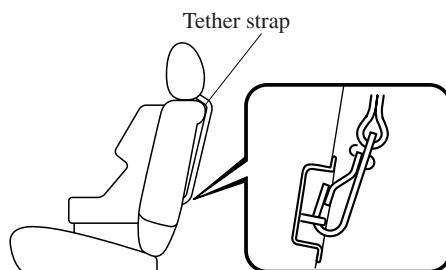
The markings above the LATCH lower anchors indicate the locations of LATCH lower anchors for the attachment of a child-restraint system.

3. Secure the child-restraint system using BOTH LATCH lower anchors, following the child-restraint system manufacturer's instruction.
4. If your child-restraint system came equipped with a tether, that probably means it is very important to properly secure the tether for child safety, please carefully follow the child-restraint system manufacturer's instructions when installing tethers.

Anchor bracket location



Tether strap position



Child Restraint



WARNING

Use the tether and tether anchor only for a child-restraint system:

Using the tether or tether anchor to secure anything but a child-restraint system is dangerous. This could weaken or damage the tether or tether anchor and result in injury.

Always route the tether strap between the head restraint and the seatback:

Routing the tether strap on top of the head restraint is dangerous. In a collision the tether strap could slide off the head restraint and loosen the child-restraint system. The child-restraint system could move which may result in death or injury to the child.

▼ Child-Restraint System Installation Procedure (Center-Rear Seat)

The LATCH lower anchors at the center of the rear seat are much further apart than the sets of LATCH lower anchors for child-restraint system installation at other seating positions. Child-restraint systems with rigid LATCH attachments cannot be installed on the center seating position. Some LATCH equipped child-restraint systems can be placed in the center position and will reach the nearest LATCH lower anchors which are 400 mm (15.75 in) apart. LATCH compatible child-restraint systems (with attachments on belt webbing) can be used at this seating position only if the child-restraint system manufacturer's instructions state that the child-restraint system can be installed to LATCH lower anchors that are 400 mm (15.75 in) apart. Do not attach two child-restraint systems to the same LATCH lower anchor. If your child-restraint system has a tether, it must also be used for your child's optimum safety.

⚠ WARNING

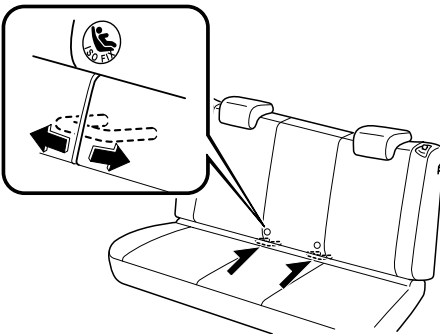
Use the tether and tether anchor only for a child-restraint system:

Using the tether or tether anchor to secure anything but a child-restraint system is dangerous. This could weaken or damage the tether or tether anchor and result in injury.

Always attach the tether strap to the correct tether anchor position:

Attaching the tether strap to the incorrect tether anchor position is dangerous. In a collision, the tether strap could come off and loosen the child-restraint system. If the child-restraint system moves it could result in death or injury to the child.

1. Make sure the seatback is securely latched by pushing it back until it is fully locked.
2. Expand the open seams on the rear of the seat bottom slightly to verify the locations of the LATCH lower anchors.



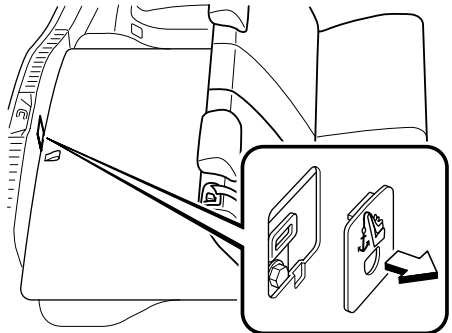
NOTE

The markings above the LATCH lower anchors indicate the locations of LATCH lower anchors for the attachment of a child-restraint system.

3. Secure the child-restraint system using BOTH LATCH lower anchors, following the child-restraint system manufacturer's instructions.

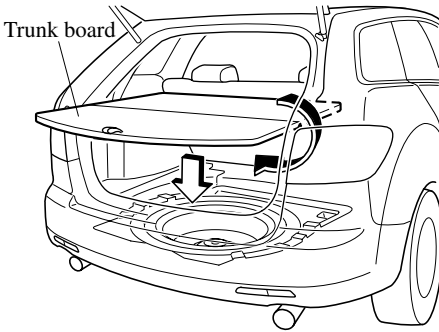
Type A

1. If your child-restraint system came equipped with a tether, that probably means it is very important to properly secure the tether for child safety. First, remove the anchor bracket cover on the rear end trim.

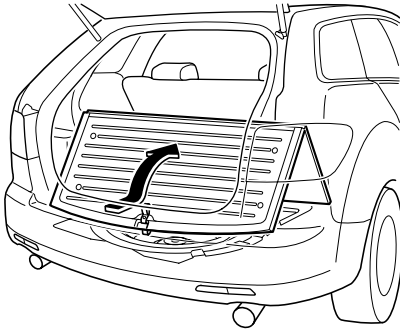


Child Restraint

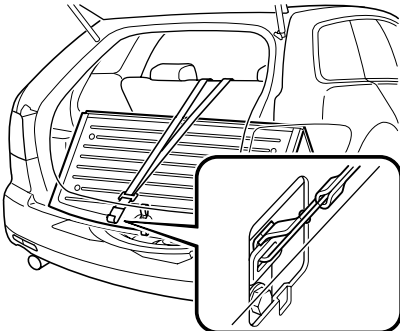
2. Flip over the trunk board.



3. Fold the trunk board into the position shown in the figure.



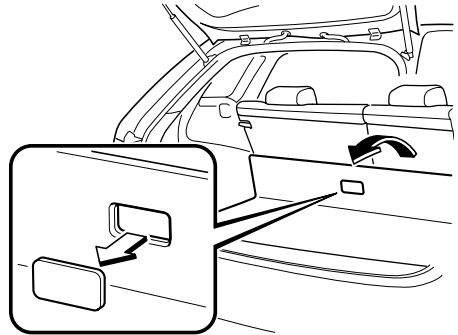
4. Latch the hook onto the anchor bracket, and tighten the tether strap following the child-restraint system manufacturer's instructions.



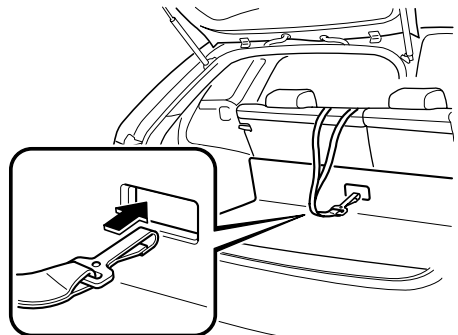
5. Push the trunk board down to its original position.

Type B

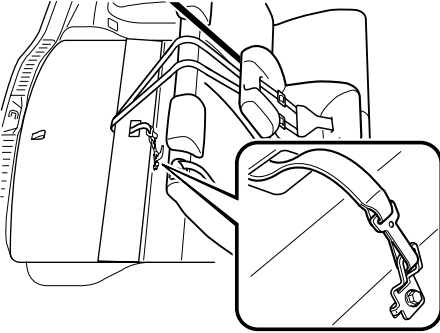
1. If your child-restraint system requires the use of a tether strap, hook and tighten the tether strap. First, pull up the front part of the trunk board and remove the anchor bracket cover on the trunk board.



2. Pass the tether strap through the hole.



3. Latch the hook onto the anchor bracket.



4. Push the trunk board down to its original position, and tighten the tether strap following the child-restraint system manufacturer's instructions.

SRS Air Bags

Supplemental Restraint System (SRS) Precautions

The supplemental restraint systems (SRS) include up to 6 air bags (verify “SRS AIRBAG” location indicator marks).

They are located in:

- The steering wheel hub (driver air bag)
- The front passenger dashboard (front passenger air bag)
- The outboard sides of the front seatbacks (side air bags)
- The front and rear window pillars, and the roof edge along both sides (curtain air bags)

The air bag supplemental restraint systems are designed to provide supplemental protection in certain situations so seat belts are always important in the following ways:

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

- Keep the occupant from being thrown into an inflating air bag.
- Reduce the possibility of injuries during an accident that is not designed for air bag inflation, such as rear impact.
- Reduce the possibility of injuries in frontal, near frontal, side collisions or roll-over accidents 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 provide no protection to these parts of the body.
- Hold the driver in a position which allows better control of the vehicle.

Your vehicle is also equipped with a driver and front passenger occupant classification system. For details, refer to the driver and front passenger occupant classification system (page 2-61).

Small children must be protected by a child-restraint system as stipulated by law in every state and province. In certain states and provinces, larger children must use a child-restraint system (page 2-28).

Carefully consider which child-restraint system is necessary for your child and follow the installation directions in this Owner's Manual as well as the child-restraint system manufacturer's instructions.

 WARNING**Seat belts must be worn in air bag equipped vehicles:**

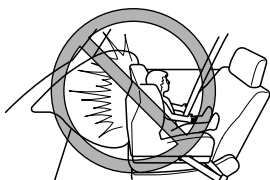
Depending only on the air bags for protection during an accident is dangerous. Alone, air bags may not prevent serious injuries. The appropriate air bags can be expected to inflate only in the first accident, such as frontal, near frontal, side collisions or roll-over accident that are at least moderate. Vehicle occupants should always wear seat belts.

Children should not ride in the front passenger 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. Even if the front passenger air bag deactivation indicator light illuminates, always move the front passenger seat as far back as possible. 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 seats with an appropriate child-restraint system for the child's age and size.

Never use a rear-facing child-restraint system in the front seat with an air bag that could deploy:

Rear-facing child-restraint systems on the front seat are particularly dangerous even though you may feel assured that a front passenger air bag will not deploy based on the fact that the front passenger air bag deactivation indicator light illuminates. 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.

**Do not sit too close to the driver and front passenger air bags:**

Sitting too close to the driver and front passenger air bag modules or placing hands or feet on them is extremely dangerous. The driver and front passenger 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

Sit in the center of the seat and wear seat belts properly:

Sitting too close to the side air bag modules or placing hands on them and sleeping up against the door or hanging out the windows is extremely dangerous. The side and curtain air bags inflate with great force and speed directly expand along the 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, or if rear seat occupants grab the sides of the front seatbacks. Give the side and curtain air bags room to work by sitting in the center of the seat while the vehicle is moving with seat belts worn properly.

Do not attach objects on or around the area where driver and front passenger air bags deploy:

Attaching an object to the driver and front passenger air bag modules or placing something in front of them is dangerous. In an accident, an object could interfere with air bag inflation and injure the occupants.

Do not attach objects on or around the area where a side air bag deploys:

Attaching things to the front 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 backpacks with side straps on the front seats. Never use seat covers on the front seats. Always keep the side air bag modules in your front seats free to deploy in the event of a side collision.

Do not attach objects on or around the area where a curtain air bag deploys:

Attaching objects to the areas where the curtain air bag activates such as on the windshield glass, side door glass, front and rear window pillars and along the roof edge and assist grips is dangerous. In an accident the object could interfere with the curtain air bag, which inflates from the front and rear window pillars and along the roof edge, impeding the added protection of the curtain 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 place hangers or any other objects on the assist grips. When hanging clothes, hang them on the coat hook directly. Always keep the curtain air bag modules free to deploy in the event of a side collision or roll-over accident.

 WARNING**Do not place luggage or other objects under the front seats:**

Placing luggage or other objects under the front seats is dangerous. The side and curtain air bag wiring could be damaged, and in the event of a side collision, the side and curtain air bags may not deploy, which could result in death or serious injury. To prevent damage to the side and curtain air bag wiring, do not place luggage or other objects under the front seats.

Do not touch the internal components of the air bag modules after the bags have inflated:

Hot air bag inflators are dangerous. Immediately after inflation, the inflators in the steering wheel, dashboard, seatbacks, or the front and rear window pillars and along the roof edge are very hot. You could get burned.

Never install any front-end equipment to your vehicle:

Installation of front-end equipment, such as frontal protection bar (kangaroo bar, bull bar, push bar, or other similar devices), snowplow, or winches, is dangerous. The air bag crash sensor system could be affected. This could cause air bags to inflate unexpectedly, or it could prevent the air bags from inflating during an accident. Front occupants could be seriously injured.

Do not modify the suspension:

Modifying the vehicle suspension is dangerous. If the vehicle's height or the suspension is modified, the vehicle will be unable to accurately detect a collision or roll-over accident resulting in incorrect or unexpected air bag deployment and the possibility of serious injuries.

Do not use tires or wheels other than those specified for your Mazda:

Use of any tire or wheel other than those specified for your Mazda (page 10-6) is dangerous. Use of such wheels will prevent the vehicle's accident detections system from accurately detecting a collision or roll-over accident resulting in incorrect or unexpected air bag deployment and the possibility of serious injuries.

Do not overload your vehicle:

Overloading your vehicle is dangerous as it could prevent the air bag crash sensor system from accurately detecting a collision or roll-over accident resulting in incorrect or unexpected air bag deployment and the possibility of serious injuries. The gross axle weight rating (GAWR) and the gross vehicle weight rating (GVWR) for your vehicle are on the Motor Vehicle Safety Standard Label on the driver's door frame. Do not exceed these ratings.

SRS Air Bags

WARNING

Do not drive the vehicle off-road:

Driving your Mazda off-road is dangerous because the vehicle has not been designed to do such. Driving the vehicle off-road could prevent the air bag crash sensor system from accurately detecting a collision or roll-over accident resulting in incorrect or unexpected air bag deployment and the possibility of serious injuries.

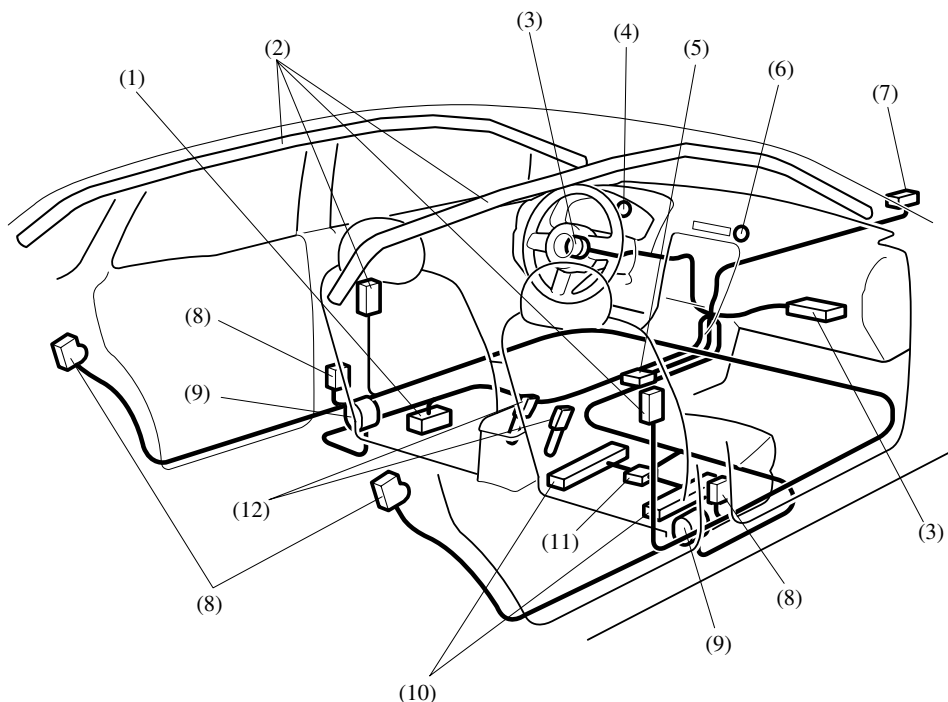
Do not modify the supplemental restraint system:

Modifying the components or wiring of the supplemental restraint system is dangerous. You could accidentally activate it or make it inoperable. Do not make any modifications to the supplemental restraint system. This includes installing trim, badges, or anything else over the air bag modules. It also includes installing extra electrical equipment on or near system components or wiring. An Authorized Mazda Dealer can provide the special care needed in the removal and installation of front seats. It is important to protect the air bag wiring and connections to assure that the bags do not accidentally deploy, the driver seat slide position sensor and front passenger seat weight sensors are not damaged and that the seats retain an undamaged air bag connection.

NOTE

- When an air bag deploys, a loud inflation noise can be heard and some smoke will be released. Neither is likely to cause injury, however, the texture of the air bags may cause light skin injuries on body parts not covered with clothing through friction.
- 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.

Supplemental Restraint System Components



- (1) Driver seat slide position sensor (page 2-61)
- (2) Side and curtain inflators and air bags
- (3) Driver/Front passenger dual stage inflators and air bags
- (4) Air bag/front seat belt pretensioner system warning light (page 2-57)
- (5) Crash sensors and diagnostic module (SAS unit)
- (6) Front passenger air bag deactivation indicator light (page 2-61)
- (7) Front air bag sensor
- (8) Side crash sensor
- (9) Front seat belt pretensioner and load limiting systems (page 2-19)
- (10) Front passenger seat weight sensors (page 2-61)
- (11) Front passenger seat weight sensor control module
- (12) Driver and front passenger seat belt buckle switches (page 2-65)

SRS Air Bags

How the SRS Air Bags Work

Your Mazda is equipped with the following types of SRS air bags. SRS air bags are designed to work together with the seat belts to help to reduce injuries during an accident. The SRS air bags are designed to provide further protection for passengers in addition to the seat belt functions. Be sure to wear seat belts properly.

▼ Front Seat Belt Pretensioners

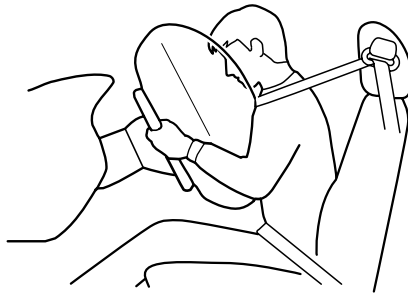
The front seat belt pretensioners are designed to deploy in moderate or severe frontal, near frontal collisions or roll-over accidents.

▼ Driver Air Bag

The driver air bag is mounted in the steering wheels.

When air bag crash sensors detect a frontal impact of greater than moderate force, the driver's air bag inflates quickly helping to reduce injury mainly to the driver's head or chest caused by directly hitting the steering wheel.

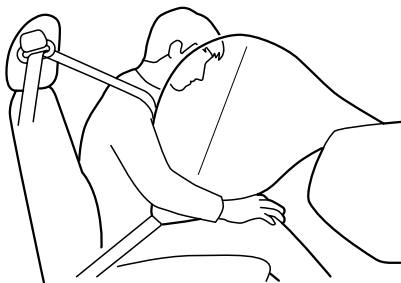
The driver, dual stage air bag controls air bag inflation in two energy stages. During an impact of moderate severity the driver air bag deploys with lesser energy, whereas during more severe impacts, it deploys with more energy.



▼ Front Passenger Air Bag

The front passenger air bag is mounted in the front passenger dashboard.

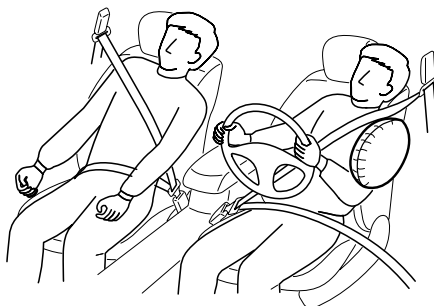
The inflation mechanism for the front passenger air bag is the same as the driver's air bag, as mentioned above. In addition, the front passenger air bag is designed to only deploy in accordance with the total seated weight on the front passenger seat. For details, refer to the driver and front passenger occupant classification system (page 2-61).



▼ Side Air Bags

The side bags are mounted in the outboard sides of the front seatbacks.

When the air bag crash sensors detect a side impact of greater than moderate force, the system inflates the side air bag only on the side in which the vehicle was hit. The side air bag inflates quickly to reduce injury to the driver or front passenger's chest caused by directly hitting interior parts such as a door or window. In addition, the front passenger side air bag is designed to only deploy in accordance with the total seated weight on the front passenger seat. For details, refer to the driver and front passenger occupant classification system (page 2-61).



SRS Air Bags

▼ Curtain Air Bags

The curtain air bags are mounted in the front and rear window pillars, and the roof edge along both sides.

When the air bag crash sensors detect a side impact of greater than moderate force, the curtain air bag inflates quickly and helps to reduce injury mainly to the rear outboard passenger's head caused by directly hitting interior parts such as a door or window.

In a side impact:

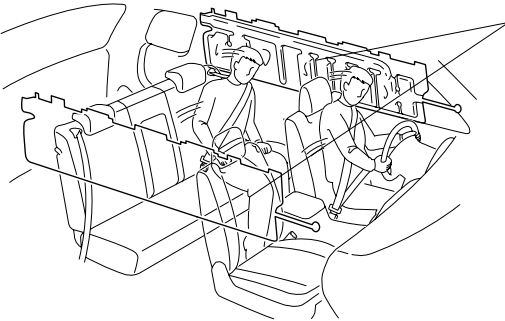
Greater than moderate impact to one side of the vehicle will cause the curtain air bag on that side only to inflate.



The only one side of curtain air bag will deploy only on the side the vehicle receives the force of the impact.

In a roll-over:

In response to a vehicle roll-over, both the curtain air bags inflate.



Both curtain air bags will deploy after the roll-over accident is detected.

▼ Air Bag/Front Seat Belt Pretensioner System Warning Light



If the air bag/front seat belt pretensioner system is normal, the warning light illuminates when the ignition switch is turned to the ON position or after the engine is cranked. For a specified period of time it goes out.

A system malfunction is indicated when the warning light constantly flashes, constantly illuminates or doesn't illuminate at all when the ignition switch is turned to the ON position. If any of these occur, consult an Authorized Mazda Dealer as soon as possible. The system may not work in an accident.

WARNING

Never tamper with the air bag/pretensioner systems and always have an Authorized Mazda Dealer perform all servicing and repairs:

Self-servicing or tampering with the systems is dangerous. An air bag/pretensioner could accidentally activate or become disabled causing serious injury or death.

▼ Air Bag/Front Seat Belt Pretensioner System Warning Beep

If a malfunction is detected in both the air bag/front seat belt pretensioner system and the warning light, a warning beep sound will be heard for about 1 minute. After that, the one-minute beep will be repeated every 30 minutes.

Have your vehicle inspected at an Authorized Mazda Dealer as soon as possible.

WARNING

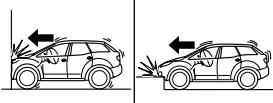
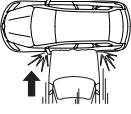
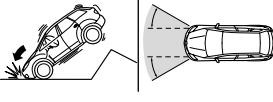
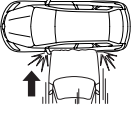
Do not drive the vehicle with the air bag/front seat belt pretensioner system warning beep sounding:

Driving the vehicle with the air bag/front seat belt pretensioner system warning beep sounding is dangerous. In a collision, the air bags and the front seat belt pretensioner system will not deploy and this could result in death or serious injury.

Contact an Authorized Mazda Dealer to have the vehicle inspected as soon as possible.

SRS Air Bag Deployment Criteria

This chart indicates the applicable SRS equipment that will deploy depending on the type of collision.
(The illustrations are the representative case of collisions.)

SRS equipment	Types of collision			
	A severe frontal/near frontal collision	A severe side collision	A roll-over/near roll-over	A rear collision
				
				
Front seat belt pretensioner	X* (both sides)		X* (both sides)	No air bag and front seat belt pretensioner will be activated in a rear collision.
Driver air bag	X			
Front passenger air bag	X*			
Side air bag		X* (impact side only)		
Curtain air bag		X (impact side only)	X (both sides)	

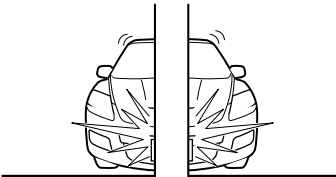
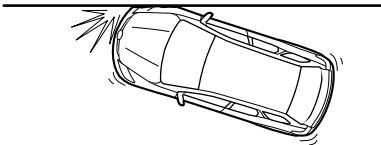
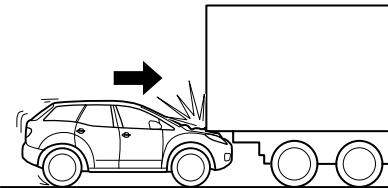
X: The SRS air bag equipment is designed to deploy in a collision.
*: The front passenger front and side air bags and the seat belt pretensioner are designed to deploy depending on the condition of the total seated weight on the front passenger seat.

Limitations to SRS Air Bag

In severe collisions or roll-overs such as those described previously in “SRS Air Bag Deployment Criteria”, the applicable SRS air bag equipment will deploy. However, in some accidents, the equipment may not deploy depending on the type of collision and its severity.

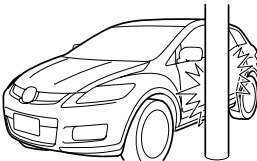
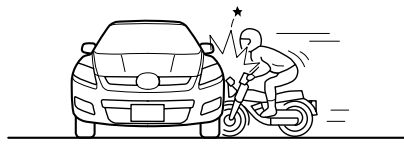
Limitations to front/near front collision detection:

The following illustrations are examples of front/near front collisions that may not be detected as severe enough to deploy the SRS air bag equipment.

Impacts involving trees or poles 	Frontal offset impact to the vehicle 
Rear-ending or running under a truck's tail gate 	

Limitations to side collision detection:

The following illustrations are examples of side collisions that may not be detected as severe enough to deploy the SRS air bag equipment.

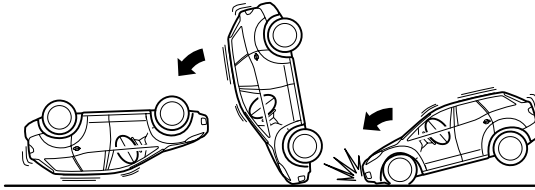
Side impacts involving trees or poles 	Side impacts with two-wheeled vehicles 

SRS Air Bags

Limitations to roll-over detection:

The following illustrations are examples of accidents that may not be detected as a roll-over accident. Therefore, the front seat belt pretensioners and curtain air bags may not deploy.

Pitch end over end



Driver and Front Passenger Occupant Classification System

First, please read “Supplemental Restraint System (SRS) Precautions” (page 2-48) carefully.

▼ Driver Seat Slide Position Sensor

Your vehicle is equipped with a driver seat slide position sensor as a part of the supplemental restraint system. The sensor is located under the driver seat. The sensor determines whether the driver seat is fore or aft of a reference position and sends the seat position to the diagnostic module (SAS unit). The sensor is also designed to control the deployment of the driver air bag depending on how close the driver seat is to the steering wheel.

The air bag/front seat belt pretensioner system warning light flashes if the sensor has a possible malfunction (page 2-57)(Air Bag/Front Seat Belt Pretensioner System Warning Light).

▼ Front Passenger Seat Weight Sensors

Your vehicle is equipped with a front passenger seat weight sensors as a part of the supplemental restraint system. These sensors are located under both of the front passenger seat rails. These sensors determine the total seated weight on the front passenger seat. The sensors are also designed to prevent the front passenger front and side air bags and seat belt pretensioner system from deploying if the total seated weight is less than approximately 30 kg (66 lb).

To reduce the chance of injuries caused by deployment of the front passenger air bag, the system deactivates the front passenger front and side air bags and also the seat belt pretensioner system when:

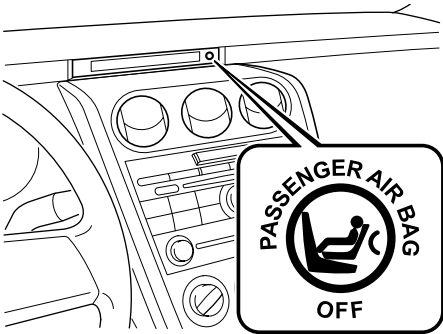
- There is no passenger in the front passenger seat. (The front passenger air bag deactivation indicator light does not illuminate.)
- The total seated weight on the front passenger seat is less than approximately 30 kg (66 lb). (The front passenger air bag deactivation indicator light illuminates.)

This system shuts off the front passenger front and side air bags and seat belt pretensioner system, so make sure the front passenger air bag deactivation indicator light illuminates according to the following table.

The air bag/front seat belt pretensioner system warning light flashes and the front passenger air bag deactivation indicator light illuminates if the sensors have a possible malfunction. If this happens, the front passenger front and side air bags and seat belt pretensioner system will not deploy.

Front passenger air bag deactivation indicator light

This indicator light illuminates to remind you that the front passenger front and side air bags and seat belt pretensioner will not deploy during a collision.



If the front passenger weight sensors are normal, the indicator light illuminates when the ignition switch is turned to the ON position. For a specified of time it goes out.

The front passenger air bag deactivation indicator light illuminates or is off under the following conditions:

Total seated weight on the front passenger seat	Front passenger air bag deactivation indicator light	Front passenger front and side air bags	Front passenger seat belt pretensioner system
Empty (Not occupied)*	OFF	Deactivated	Deactivated
Less than approx. 30 kg (66 lb)	ON	Deactivated	Deactivated
Approx. 42 kg (93 lb) or more	OFF	Ready	Ready

* If the front passenger seat belt is buckled, the front passenger air bag deactivation indicator light illuminates, however this does not indicate a malfunction.
Curtain air bag is ready for inflating despite the chart above.

If the front passenger air bag deactivation indicator light does not illuminate when the ignition switch is turned to the ON position and does not illuminate as indicated in the above chart, do not allow a child to sit in the front passenger seat and consult an Authorized Mazda Dealer as soon as possible. The system may not work properly in an accident.

 WARNING***Do not decrease the total seated weight on the front passenger seat:***

When an adult or large child sits on the front passenger seat, decreasing the total seated weight on the front passenger seat from the total seated weight of approximately 42 kg (93 lb) required for air bag deployment is dangerous. The front passenger seat weight sensors will detect the reduced total seated weight condition and the front passenger front and side air bags and seat belt pretensioner system will not deploy during an accident. The front passenger will not have the supplementary protection of the air bag, which could result in serious injury. Decreasing the total seated weight on the front passenger seat from the total seated weight of approximately 42 kg (93 lb) could result in an air bag not deploying under the following conditions, for example:

- *A rear passenger pushes up on the front passenger seat with the feet.*
- *Luggage or other items placed under the front passenger seat or between the front passenger seat and driver seat that push up the front passenger seat bottom.*
- *The front passenger seat occupant sits in a manner that does not place the entire weight of the occupant on the seat such as by sitting too close to the door, grasping the assist grip or the rim of the moonroof and sitting with the seatback reclined too far.*
- *Any accessories which might decrease the total seated weight on the front passenger seat are attached to the front passenger seat.*

The front passenger front and side air bags and seat belt pretensioner systems will deactivate if the total seated weight on the front passenger seat is close to 30 kg (66 lb) and they will reactivate before the weight exceeds 42 kg (93 lb).

SRS Air Bags

WARNING

Do not increase the total seated weight on the front passenger seat:

When an infant or small child sits on the front passenger seat, increasing the total seated weight on the front passenger seat from the total seated weight of approximately 30 kg (66 lb) is dangerous. The front passenger seat weight sensors will detect the increased total seated weight, which could result in the unexpected deployment of the front passenger front and side air bags and seat belt pretensioner system in an accident and may cause serious injury. Increasing the total seated weight on the front passenger seat beyond the total seated weight of approximately 30 kg (66 lb) could result in the front passenger front and side air bags and seat belt pretensioner system deployment in an accident under the following conditions, for example:

- *Luggage or other items are placed on the seat with the child in the child-restraint system.*
- *A rear passenger or luggage push or pull down on the front passenger seatback.*
- *A rear passenger steps on the front passenger seat rails with the feet.*
- *Luggage or other items are placed on the seatback or hung on the head restraint.*
- *The seat is washed.*
- *Liquids are spilled on the seat.*
- *The front passenger seat is moved backward, pushing into luggage or other items placed behind it.*
- *The front passenger seatback contacts the rear seat.*
- *Luggage or other items are placed between the front passenger seat and driver seat.*
- *Any accessories which might increase the total seated weight on the front passenger seat are attached to the front passenger seat.*

The front passenger front and side air bags and seat belt pretensioner systems will deactivate if the total seated weight on the front passenger seat is close to 30 kg (66 lb) and they will reactivate before the weight exceeds 42 kg (93 lb).

 CAUTION

- To assure proper deployment of the front air bag and to prevent damage to the sensors in the front seat bottoms:
 - Do not place sharp objects on the front seat bottoms or leave heavy luggage on them.
 - Do not spill any liquids on the front seats or under the front seats.
- To allow the sensors to function properly, always perform the following:
 - Adjust the front seats as far back as possible and always sit upright against the seatbacks with seat belts worn properly.
 - If you place your child on the front passenger seat, secure the child-restraint system properly and slide the front passenger seat as far back as possible (page 2-40).

NOTE

- The system requires about 10 seconds to alternate between turning the front passenger front and side air bags and seat belt pretensioner system on or off.
- The front passenger air bag deactivation indicator light may illuminate repeatedly if luggage or other items are put on the front passenger seat, or if the temperature of the vehicle's interior changes suddenly.
- The front passenger air bag deactivation indicator light may illuminate for 10 seconds if the total seated weight on the front passenger seat changes.
- If the front passenger air bag deactivation indicator light does not illuminate after installing a child-restraint system on the front passenger seat, install the child-restraint system on the rear seat and consult an Authorized Mazda Dealer as soon as possible.

▼ Driver and Front Passenger Buckle Switches

The buckle switches on the front seat belts detect whether or not the front seat belts are securely fastened and further control the deployment of the air bags.

Monitoring and Maintenance

▼ Constant Monitoring

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

- SAS unit
- Front air bag sensor
- Air bag modules
- Side crash sensors
- Front seat belt pretensioners
- Related wiring
- Driver seat slide position sensor
- Front passenger seat weight sensors

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

▼ Maintenance

The air bag systems do not require regular maintenance. 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 remains illuminated.
- The air bag system warning light does not illuminate when the ignition switch is turned to the ON position.
- The air bag system warning beep sound will continue to be heard for approximately 35 minutes.
- The air bags have deployed.
- Front passenger air bag deactivation indicator light does not illuminate when the ignition switch is turned to the ON position or does not illuminate as indicated in the chart. For more details about this indicator light and this chart, refer to “Front passenger seat weight sensors” (page 2-61).

 WARNING

Do not operate a vehicle with damaged air bag/seat belt pretensioner system components:

Expended or damaged air bag/seat belt pretensioner system components must be replaced after any collision which caused them to deploy or damage them. Only a trained Authorized Mazda Dealer can fully evaluate these systems to see that they will work in any subsequent accident. Driving with an expended or damaged air bag or pretensioner unit will not afford you the necessary protection in the event of any subsequent accident which could result in serious injury or death.

Do not remove interior air bag parts:

Removing any components such as the front seats, front dashboard, the steering wheel or parts on the front and rear window pillars and along the roof edge, containing air bag parts or sensors is dangerous. These parts contain essential air bag components. The air bag could accidentally activate and cause serious injuries. Always have an Authorized Mazda Dealer remove these parts.

Dispose of the air bag properly:

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.

NOTE

If it becomes necessary to have the components or wiring system for the supplementary restraint system modified to accommodate a person with certain medical conditions in accordance with a certified physician, contact an Authorized Mazda Dealer, refer to “Customer Assistance (U.S.A.)” (page 9-2).

3

Knowing Your Mazda

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

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Advanced Keyless Entry and Start System

Advanced Keys *

The advanced keyless functions (advanced keyless entry and start system) enables the following operations while the advanced key is being carried (page 3-7).

- Locking/unlocking the doors and the liftgate without operating the key.
- Starting the engine without operating the key.

The advanced key enables additional functions other than those with the advanced keyless functions (page 3-14).

- The following operations are possible using the keyless entry system from a distance (Lock/Unlock/Panic button):
 - Locking/unlocking the doors and the liftgate.
 - Opening the power windows and the moonroof.
 - Turning on the alarm.
- Locking/unlocking the doors or starting the engine using the auxiliary key.

WARNING

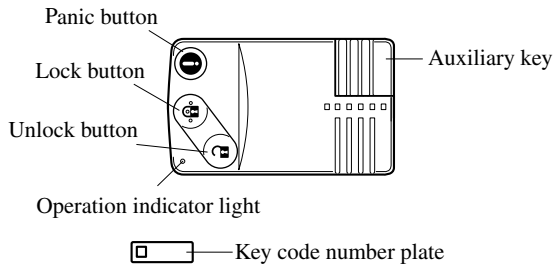
Do not leave the keys in your vehicle with children and keep them in a place where your children will not find or play with them:
Leaving children in a vehicle with the key is dangerous. This could result in someone being badly injured or even killed. These new kinds of keys are fascinating to children. They could play with power windows or other controls, or even make the vehicle move.

Radio waves from the advanced key may affect medical equipment such as pacemakers:
Before using the advanced key near people who use medical equipment, ask the medical equipment manufacturer or your physician if radio waves from the advanced key will affect the equipment.

NOTE

- The driver must carry the advanced key to ensure the system functions properly.
- Refer to Immobilizer System (page 3-50) for information regarding keys and engine starting.
- **(With theft-deterrent system)**
Refer to Theft-Deterrent System (page 3-56) for information regarding keys and the prevention of vehicle and vehicle contents theft.

Advanced Keyless Entry and Start System



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.

Advanced Keyless Entry and Start System

CAUTION

- Because the advanced key uses low-intensity radio waves, it may not function correctly under the following conditions:
 - The advanced key is carried with communication devices such as cellular phones.
 - The advanced key contacts or is covered by a metal object.
 - The advanced key is near electronic devices such as personal computers.
 - Non-Mazda genuine electronic equipment is installed in the vehicle.
 - There is equipment which discharges radio waves near the vehicle.
 - If the vehicle is near equipment such as wireless pay devices installed at certain gas stations.
- The advanced key may consume battery power excessively if it receives high-intensity radio waves. Do not place the advanced key near electronic devices such as televisions or personal computers.
- To avoid damage to the advanced key, DO NOT:
 - Drop the advanced key.
 - Get the advanced key wet.
 - Disassemble the advanced key.
 - Expose the advanced key to high temperatures on places such as the dashboard or hood, under direct sunlight.
 - Place heavy objects on the advanced key.
 - Put the advanced key in an ultrasonic cleaner.
 - Put any magnetized objects close to the advanced key.

NOTE

- Battery life is about one year. Replace the battery when the KEY indicator light (green) flashes in the instrument cluster.
Refer to Advanced Key Dead Warning on page 3-18.
- Additional advanced keys can be obtained at an Authorized Mazda Dealer. Up to 6 advanced keys can be used with the advanced keyless functions per vehicle.

Advanced Keyless Entry and Start System

▼ Advanced Key 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 be damaged.
- There is the danger of explosion if the battery is not correctly replaced.
- Replace only with the same type battery (CR2025 or equivalent).
- Dispose of used batteries according to the following instructions.
 - Insulate the plus and minus terminals of the battery using cellophane or equivalent tape.
 - Never disassemble.
 - Never throw the battery into fire or water.
 - Never deform or crush.

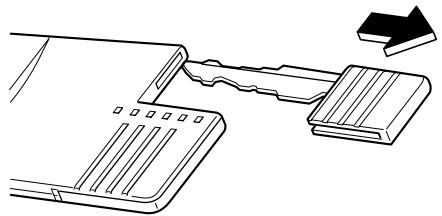
The following conditions indicate that the battery power is low:

- The KEY indicator light (green) flashes in the instrument cluster when the engine is turned off.
- The system does not operate and the operation indicator light does not flash when the buttons are pressed.
- The system's operational range is reduced.

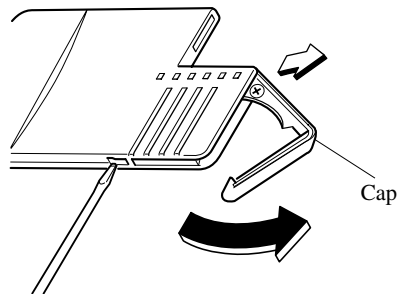
Replacing the battery at an Authorized Mazda Dealer is recommended to prevent damage to the advanced key. If replacing the battery by yourself, follow the instruction below.

Replacing the advanced key battery

1. Pull out the auxiliary key.



2. Release the cap using a flathead screwdriver, then rotate and remove the cap.

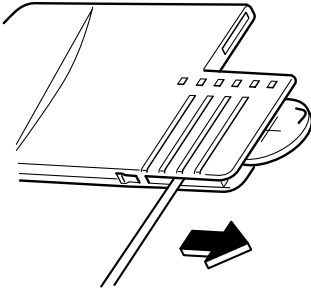


CAUTION

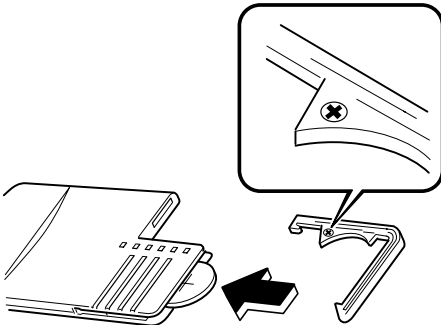
Do not turn the cap excessively. The cap may be damaged.

Advanced Keyless Entry and Start System

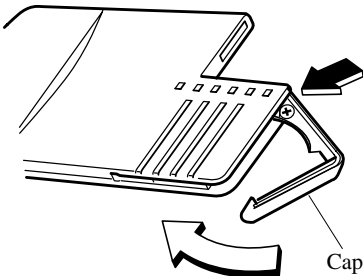
3. Insert a flathead screwdriver into the crack and press the battery out.



4. Insert the new battery (CR2025 or equivalent) with the positive pole (+) facing the (+) mark on the cap.



5. Rotate and close the cap.



6. Reinsert the auxiliary key.

▼ Service

If you have a problem with the advanced keyless functions, consult an Authorized Mazda Dealer.

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

⚠ CAUTION

Radio equipment like this is governed by laws in the United States. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Advanced Keyless Entry and Start System

Operation Using Advanced Keyless Functions

▼ Operational Range

The system operates only when the driver is in the vehicle or within operational range while the advanced key is being carried.

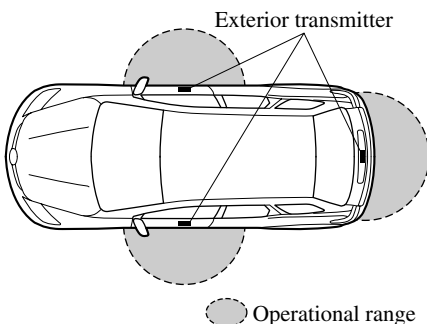
NOTE

When the battery power is low, or in places where there are high-intensity radio waves or noise, the operational range may become narrower or the system may not operate.

Locking, unlocking the doors and the liftgate

The operational range for locking/unlocking the doors is an area of up to 80 cm (2.6 ft) from the center of the front door handles.

The operational range for locking/unlocking the liftgate is an area of up to 80 cm (2.6 ft) from the center of the liftgate.

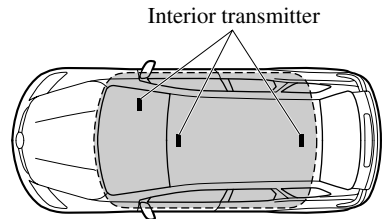


NOTE

The system may not operate if you are too close to the windows, door handles, or liftgate.

Starting the engine

The operational range for starting the engine includes nearly the entire cabin area except for the luggage compartment.



Advanced Keyless Entry and Start System

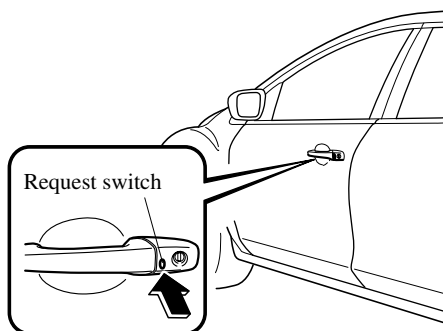
NOTE

- The luggage compartment is out of the operational range, however, starting the engine may be possible.
- The engine may not start if the advanced key is placed in the following areas:
 - Around the dashboard
 - In the storage compartments such as the glove box
- Starting the engine may be possible even if the advanced key is outside of the vehicle and extremely close to a door and window, however, always start the engine from the driver's seat. If the vehicle is started and the advanced key is not in the vehicle, the vehicle will not restart after it is shut off and the ignition switch is turned to the lock position.
- If the advanced key is detected within operational range, the operation indicator light flashes momentarily.

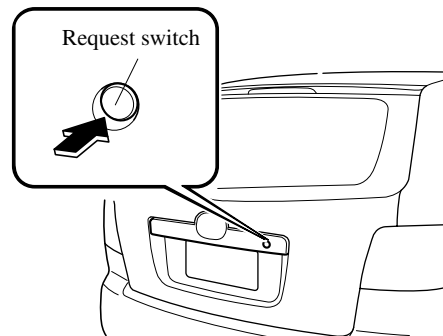
▼ Locking, Unlocking with Request Switch

All doors and the liftgate can be locked/unlocked by pressing the request switch on the front doors or the liftgate while the advanced key is being carried.

Front doors



Liftgate



To lock

To lock the doors and the liftgate, press the request switch. A beep sound will be heard once and the hazard warning lights will flash once.

Advanced Keyless Entry and Start System

To unlock

Driver's door request switch

To unlock the driver's door, press the request switch. A beep sound will be heard twice and the hazard warning lights will flash twice.

To unlock all doors and the liftgate, press the request switch again within 3 seconds and two more beep sounds will be heard.

NOTE

(Without theft-deterrent system)

The hazard warning lights will flash twice to indicate that the doors and the liftgate are unlocked.

(With theft-deterrent system)

- The hazard warning lights will not flash.
- The hazard warning lights only flash when the theft deterrent system is armed or turned off, refer to the theft-deterrent system (page 3-56).

NOTE

- The request switch on the driver's door can be used to close the power windows and the moonroof. Refer to the following pages:
Opening/Closing the Power Windows (page 3-39)
Opening/Closing the Moonroof (page 3-46)
- Confirm that all doors and the liftgate are securely locked.
- All doors and the liftgate cannot be locked when any door or the liftgate is open.
- A beep sound is heard for confirmation when the doors and the liftgate are locked/unlocked using the request switch. If your prefer, the beep sound can be turned off (page 3-20).

Front passenger door/liftgate request switch

To unlock the doors and the liftgate, press the request switch. A beep sound will be heard twice and the hazard warning lights will flash twice.

Advanced Keyless Entry and Start System

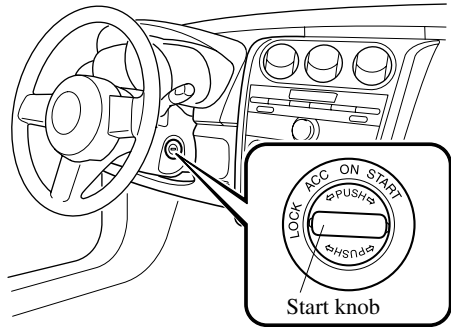
NOTE

- The setting can be changed so that the doors and the liftgate are locked automatically without pressing the request switch.
(Auto-lock function)
A beep sound is heard when all doors and the liftgate are closed while the advanced key is being carried. All doors and the liftgate are locked automatically after about 3 seconds when the advanced key is out of the operational range. Also, the hazard warning lights flash once. (Even if the driver is in the operational range, all doors and the liftgate are locked automatically after about 30 seconds.)
If you are out of the operational range before the doors and the liftgate are completely closed or another advanced key is left in the vehicle, the auto-lock function will not work. Always make sure that all doors and the liftgate are locked before leaving the vehicle (page 3-20).
- After unlocking doors and the liftgate by pressing the request switch, all doors and the liftgate will automatically lock if any of the following operations are not performed within about 30 seconds. If your vehicle has a theft-deterrent system, the hazard warning lights will flash for confirmation.
 - A door or the liftgate is opened.
 - The auxiliary key is inserted into the ignition switch.
 - The start knob is pushed.

▼ Starting the Engine

Ignition Switch Positions

Without a traditional key, some of the ignition switch functions are different.



LOCK (Released)

The steering wheel locks to help protect against theft.

LOCK (Depressed)

The ignition switch can be turned to the ACC position when the KEY indicator light (green) illuminates in the instrument cluster.

WARNING

Before leaving the driver's seat, always set the parking brake and make sure the shift lever is in P: 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.

Advanced Keyless Entry and Start System

NOTE

- If turning the ignition switch is difficult, jiggle the steering wheel from side to side.
- The ignition switch cannot be turned from the ACC position to the LOCK position when the shift lever is not in P.

ACC (Accessory)

The steering wheel unlocks and some electrical accessories will operate.

NOTE

The Advanced Keyless Entry System does not function in the ACC position, and the doors will not lock/unlock even if they have been locked manually or the advanced key is carried away from the vehicle.

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 5-36).

NOTE

When the ignition switch is turned to the ON position, the sound of the fuel pump motor operating near the fuel tank can be heard. This does not indicate an abnormality.

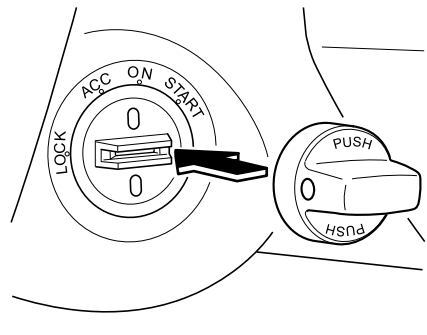
START

The engine is started in this position. It will crank until you release the start knob; then it returns to the ON position. The brake warning light can be checked after the engine is started (page 5-36).

Starting the Engine

NOTE

- Engine-starting is controlled by the spark ignition system. This system meets all Canadian Interference-Causing Equipment Standard requirements regulating the impulse electrical field strength of radio noise.
- The advanced key must be carried because the advanced key carries an immobilizer chip that must communicate with the engine controls at short range.
- When starting the engine, be sure the start knob is securely attached before trying to operate it. If the knob becomes detached from the ignition switch, re-attach it by pushing it on to the ignition switch.



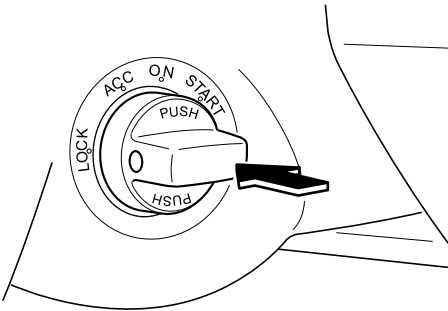
Advanced Keyless Entry and Start System

1. Make sure the advanced key is being carried.
2. Occupants should fasten their seat belts.
3. Make sure the parking brake is on.
4. Depress the brake pedal.
5. 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.

6. Push the start knob slowly all the way in.



7. Verify that the KEY indicator light (green) illuminates in the instrument cluster. The KEY warning light (red) means you cannot continue to start the engine (page 3-21).

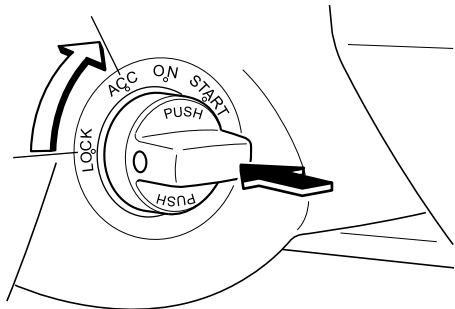
KEY

NOTE

In the following cases, the KEY warning light (red) illuminates and the engine will not start.

- The advanced key battery is dead.
- The advanced key is out of operational range.
- The advanced key is placed in areas where it is difficult for the system to detect the signal (page 3-7).
- A key from another manufacturer similar to the advanced key is in the operational range.

8. Turn the ignition switch to the ACC position while pushing the start knob in.



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

Advanced Keyless Entry and Start System

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.

10. 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 not been driven in several days, let the engine warm up without operating the accelerator.
- Whether the engine is cold or warm, it should be started without use of the accelerator.

Turning off the engine

1. Shift the shift lever to the P position.
2. Turn the ignition switch from the ON position to the ACC position.

NOTE

When the engine is turned off and the ignition switch is turned from the ACC position to the LOCK position, the KEY indicator light (green) flashes in the instrument cluster for about 30 seconds if the battery power of the advanced key is low. Replace the battery with a new one. Refer to Battery Replacement (page 3-6).

3. Push in the start knob from the ACC position and turn it to the LOCK position.

CAUTION

When leaving the vehicle, make sure the ignition switch is turned to the LOCK position.

NOTE

- When turning the ignition switch to the LOCK position, the ignition switch has to be pushed in from the ACC position and turned. Without being pushed in, the ignition switch stops at the ACC position and the vehicle battery may be discharged if the ignition switch is left in the ACC position. When leaving the vehicle, make sure the ignition switch is turned to the LOCK position.
- If the vehicle is left with the ignition switch not in the LOCK position, a beep sound is heard and the indicator light flashes to notify the driver. Refer to Warning Beep (page 3-17).

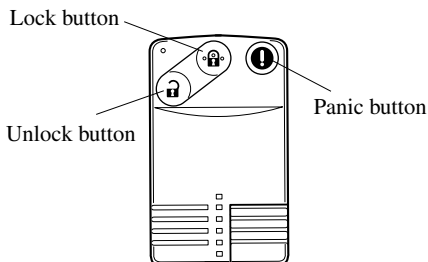
Advanced Keyless Entry and Start System

Operation Using Advanced Key Functions

▼ Keyless Entry System

This system remotely locks and unlocks the doors and the liftgate, and opens the power windows and the moonroof. It can also help you signal for attention. Press the buttons slowly and carefully.

Transmitter



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 due to local conditions.
- The system does not operate when the ignition switch is not in the LOCK position or the start knob is pushed in.
- With the start knob installed in the LOCK position, the system is fully operational. If the ignition switch is not in the LOCK position or the start knob is pushed in, the system does not operate.
- All doors and the liftgate cannot be locked by pressing the lock button while any door or the liftgate is open. The hazard warning lights will also not flash.
- If the transmitter does not operate when pressing a button or the operational range becomes too small, the battery may be dead. To install a new battery, refer to Maintenance (page 3-5).

NOTE

- **(U.S.A.)**
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.
- **(CANADA)**
This device complies with RSS-210 of Industry CANADA. Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Advanced Keyless Entry and Start System

NOTE

The unlock button can be used to open the power windows and the moonroof, but the lock button cannot be used to close the power windows and the moonroof.

Refer to the following pages:

Opening/Closing the Power Windows (page 3-39)

Opening/Closing the Moonroof (page 3-46)

The operation indicator light flashes when the buttons are pressed.

Lock button

To lock the doors and the liftgate, press the lock button. A beep sound will be heard once and the hazard warning lights will flash once.

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

NOTE

(Without theft-deterrent system)

The hazard warning lights will flash once to indicate that all doors and the liftgate are locked.

(With theft-deterrent system)

- The hazard warning lights will not flash.
- The hazard warning lights only flash when the theft deterrent system is armed or turned off, refer to the theft-deterrent system (page 3-56).

NOTE

- All doors and the liftgate cannot be locked when any door or the liftgate is open.
- Confirm that all doors and the liftgate are locked visually or audibly by use of the double click.

Unlock button

To unlock the driver's door, press the unlock button. A beep will be heard twice and the hazard warning lights will flash twice.

To unlock all doors and the liftgate, press the unlock button again within 3 seconds and two more beep sounds will be heard.

NOTE

(Without theft-deterrent system)

The hazard warning lights will flash twice to indicate that all doors and the liftgate are unlocked.

(With theft-deterrent system)

- The hazard warning lights will not flash.
- The hazard warning lights only flash when the theft deterrent system is armed or turned off, refer to the theft-deterrent system (page 3-56).

NOTE

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

Advanced Keyless Entry and Start System

Panic button

If you witness from a distance someone attempting to break into or damage your vehicle, pressing the panic button will activate the vehicle's alarm.

NOTE
The panic button will work whether any door or the liftgate is open or closed.

(Turning on the alarm)

Pressing the panic button for 1 second or more will trigger the alarm for about 2 minutes and 30 seconds, and the following will occur:

- The horn sounds intermittently.
- The hazard warning lights flash.

NOTE
However, if the driver is too close to the vehicle the panic button may not function.

(Turning off the alarm)

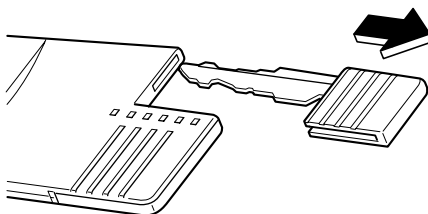
The alarm stops by pressing any button on the transmitter.

▼ Auxiliary Key Function

Use the auxiliary key stored in the advanced key in the event of a dead transmitter battery or malfunction.

Removing the auxiliary key

Pull out the auxiliary key from the advanced key.



Locking, unlocking the doors

The doors can be locked/unlocked using the auxiliary key, refer to Locking, Unlocking with Key (page 3-28).

Starting the engine

The engine can be started with the auxiliary key, refer to Starting the Engine (page 5-3).

Advanced Keyless Entry and Start System

Advanced Key Suspend Function

If an advanced key is left in the vehicle, the functions of the advanced key left in the vehicle are temporarily suspended to prevent theft of the vehicle.

The following are inoperable:

- Starting the engine using the start knob.
- Operating the request switches.

To restore these functions, perform any one of the following:

- Press the lock or unlock button on the advanced key which has had its functions temporarily suspended.
- While carrying another advanced key, push in the start knob until the KEY indicator light (green) illuminates.
- Insert the auxiliary key and turn the ignition switch to the ON position.

Warning and Beep Sounds

▼ System Malfunction Warning Beep

If any malfunction occurs in the advanced keyless function, the KEY warning light (red) in the instrument cluster illuminates continuously and beep sounds will be heard.

CAUTION

If the KEY warning light (red) remains illuminated, do not continue to drive the vehicle with the advanced keyless function. Park the vehicle in a safe place and use the auxiliary key to continue driving the vehicle. Have the vehicle inspected at an Authorized Mazda Dealer as soon as possible. Refer to Ignition Switch (page 5-2).

▼ Start Knob Not in LOCK Warning Beep

If the start knob is in the ACC position and the driver's door is opened, a continuous beep sound will be heard to notify the driver that the start knob has not been returned to the LOCK position. In this case, the keyless entry system does not operate.

Advanced Keyless Entry and Start System

▼ Advanced Key Removed from Vehicle Warning Beep

Under the following conditions, a beep will be heard 6 times and the KEY warning light (red) will flash continuously when the start knob has not been returned to the LOCK position to notify the driver that the advanced key has been removed. The KEY warning light (red) will stop flashing when the advanced key is back inside the vehicle:

- The start knob has not been returned to the LOCK position, the driver's door is open, and the advanced key is removed from the vehicle.
However the beep will be heard continuously when the start knob is in the ACC position and the door is open due to the activation of the warning beep indicating that the start knob is not in the LOCK position.
- The start knob has not been returned to the LOCK position and all the doors are closed after removing the advanced key from the vehicle.

NOTE

Because the advanced key utilizes low-intensity radio waves, the Advanced Key Removed From Vehicle Warning may activate if the advanced key is carried together with a metal object or it is placed in a poor signal reception area.

▼ Request Switch Inoperable Warning Beep

Under the following conditions, if the request switch for a front door or the liftgate is pressed while the advanced key is being carried, a beep will be heard 6 times to indicate that the front doors and the liftgate cannot be locked.

- A door is open (door ajar included).
- The start knob has not been returned to the LOCK position.
- The auxiliary key is inserted into the ignition switch.

▼ Advanced Key Battery Dead Warning

When the start knob is returned to the ACC or LOCK position from the ON position, the KEY indicator light (green) flashes for approximately 30 seconds indicating that the remaining battery power is low. Replace with a new battery before the advanced key becomes unusable.

Refer to Advanced Key Maintenance (page 3-5).

NOTE

The advanced key can be set so that the KEY indicator light (green) does not flash even if the battery power is low. Refer to Setting Change (page 3-20).

Advanced Keyless Entry and Start System

▼ Engine Start Not Permitted Warning

Under the following conditions, the KEY warning light (red) flashes to inform the driver that the start knob will not rotate to the ACC position even if it is pushed in from the LOCK position.

- The advanced key battery is dead.
- The advanced key is not within operational range.
- The advanced key is placed in areas where it is difficult for the system to detect the signal (page 3-7).
- A key from another manufacturer similar to the advanced key is in the operational range.

▼ Advanced Key Left-in-vehicle Warning Beep

If an advanced key is left in the vehicle cabin and all the doors and the liftgate are locked using a separate advanced key, a beep sound is heard for about 10 seconds to remind the driver that the advanced key has been left in the vehicle cabin. If this happens, the doors and the liftgate lock but the functions of the advanced key left in the vehicle cabin may be temporarily suspended. Perform the following procedure to restore the functions of the advanced key (page 3-17).

Advanced Keyless Entry and Start System

Setting Change (Function Customization)

The following function settings are possible. These settings can only be changed by an Authorized Mazda Dealer.

Setting	Function	At Initial Setting	After Setting Change
Advanced key battery dead indicator	KEY indicator light (green) flashes to indicate that the advanced key battery power is low.	Activated	Deactivated
Lock/unlock operation confirmation beep sound*1	A beep sound is heard to confirm that all doors or the liftgate have been locked/unlocked.	Activated	Deactivated
Autolock function	When all doors and the liftgate are closed and the advanced key is being carried and out of operational range, all doors and the liftgate automatically lock after 3 seconds. (Even if the driver is in the operational range, all doors and the liftgate are locked automatically after about 30 seconds.)	Deactivated	Activated

*1 : When the autolock function is operating, the warning sound will be heard regardless of the setting.

Advanced Keyless Entry and Start System

User Mis-Operation Warning Indicators

Under the following conditions, warning beeps are heard and a warning/indicator light in the instrument cluster illuminates to notify the driver of improper operation of the advanced key to prevent theft of the vehicle (page 3-17).

Warning condition	Check
When a door is open, a continuous beep sound will be heard.	Check whether the start knob has been returned to the LOCK position.
When a door is open, 6 beep sounds are heard, and the KEY warning light (red) in the instrument cluster flashes.	Check whether the advanced key has been removed from the vehicle.
When a door is closed, a beep sound is heard 6 times, and the KEY warning light (red) in the instrument cluster flashes.	Check whether the advanced key has been removed from the vehicle.
When attempting to lock the doors, a beep sound is heard.	Check whether the advanced key has been left in the vehicle.
	Check whether the start knob has been returned to the LOCK position.
	Check whether a door or the liftgate is open.
When the KEY indicator light (green) flashes in the instrument cluster.	The advanced key battery power is low. Replace the battery with a new one. Refer to Advanced Key Maintenance on page 3-5.
When the KEY warning light (red) remains illuminated in the instrument cluster.	The advanced key is malfunctioning. Park the vehicle in a safe place, and use the auxiliary key to continue driving the vehicle. Have the vehicle inspected at an Authorized Mazda Dealer as soon as possible.

Doors and Locks

Keys (with Retractable Type Key)

WARNING

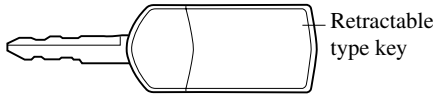
Do not leave the keys in your vehicle with children and keep them in a place where your children will not find or play with them:

Leaving children in a vehicle with the key is dangerous. This could result in someone being badly injured or even killed. These new kinds of keys are fascinating to children. They could play with power windows or other controls, or even make the vehicle move.

NOTE

- Refer to Immobilizer System (page 3-53) for information regarding keys and engine starting.
- **(With theft-deterrent system)**
Refer to Theft-Deterrent System (page 3-56) for information regarding keys and the prevention of vehicle and vehicle contents theft.

The keys operate all locks.



Retractable type key

 Key code number plate

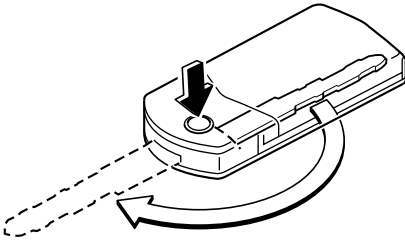
A code number is stamped on the plate attached to the key set; detach this plate and store it in a safe place (not in the vehicle) for use if you need to make a replacement key.

NOTE

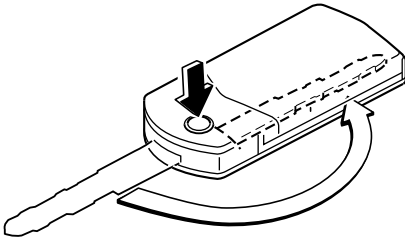
Write down the code number and keep it in a separate safe and convenient place, but not in the vehicle. If your key is lost, consult your Authorized Mazda Dealer and have your code number ready.

Key extend/retract method (Retractable type key)

To extend the key, press the release button.



To retract the key, rotate it into the holder while pressing the release button.

**Keyless Entry System**

This system remotely locks and unlocks the doors and the liftgate, and opens the power windows and the moonroof. It can also help you signal for attention. Press the buttons slowly and carefully.

**CAUTION**

To avoid damage to the transmitter, do not:

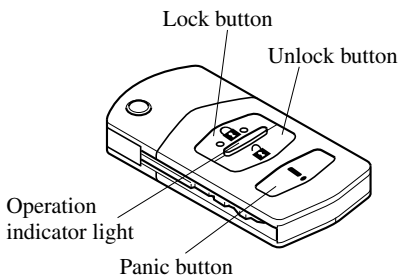
- Drop it.
- Get it wet.
- Disassemble it.
- Expose it to heat or sunlight.

Doors and Locks

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 due to local conditions.
- The system doesn't operate when the key is in the ignition switch.
- Doors and the liftgate cannot be locked by pressing the lock button while any other door or the liftgate is open. Also, the hazard warning lights will not flash.
- 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 3-26).
- Additional transmitters can be obtained at an Authorized Mazda Dealer. Up to 3 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

- **(U.S.A.)**
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.
- **(CANADA)**
This device complies with RSS-210 of Industry CANADA. Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Doors and Locks

NOTE

The unlock button can be used to open the power windows and the moonroof, but the lock button cannot be used to close the power windows and the moonroof.

Refer to the following pages:
Opening/Closing the Power Windows (page 3-39)
Opening/Closing the Moonroof (page 3-46)

The operation indicator light flashes when the buttons are pressed.

Lock button

To lock the doors and the liftgate, press the lock button and the hazard warning lights will flash once.

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

NOTE

(Without theft-deterrent system)

The hazard warning lights will flash once to indicate that all doors and the liftgate are locked.

(With theft-deterrent system)

- The hazard warning lights will not flash.
- The hazard warning lights only flash when the theft deterrent system is armed or turned off, refer to the theft-deterrent system (page 3-56).

NOTE

- All doors and the liftgate cannot be locked when any door or the liftgate is open and the key is in the ignition switch.
- Confirm that all doors and the liftgate are locked visually or audibly by use of the double click.

Unlock button

To unlock the driver's door, press the unlock button and the hazard warning lights will flash twice.

To unlock all doors and the liftgate, press the unlock button again within 3 seconds.

NOTE

(Without theft-deterrent system)

The hazard warning lights will flash twice to indicate that all doors and the liftgate are unlocked.

(With theft-deterrent system)

- The hazard warning lights will not flash.
- The hazard warning lights only flash when the theft deterrent system is armed or turned off, refer to the theft-deterrent system (page 3-56).

NOTE

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

Doors and Locks

Panic button

If you witness from a distance someone attempting to break into or damage your vehicle, pressing the panic button will activate the vehicle's alarm.

NOTE
The panic button will work whether any door or the liftgate is open or closed.

Turning on the alarm

Pressing the panic button for 1 second or more will trigger the alarm for about 2 minutes and 30 seconds, and the following will occur:

- The horn sounds intermittently.
- The hazard warning lights flash.

Turning off the alarm

Press any button on the transmitter.

▼ Transmitter Maintenance

If the buttons on the transmitter are inoperable and the operation indicator light does not flash, the battery may be dead.

Replace with a new battery before the transmitter becomes unusable.

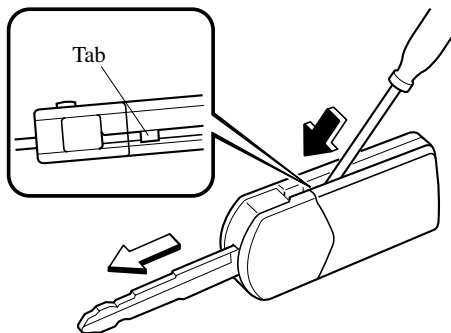
 CAUTION

- Install the battery with the positive pole (+) facing down. 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 be damaged.
- There is the danger of explosion if the battery is not correctly replaced.
- Replace only with the same type battery (CR1620 or equivalent).
- Dispose of used batteries according to the following instructions.
 - Insulate the plus and minus terminals of the battery using cellophane or equivalent tape.
 - Never disassemble.
 - Never throw the battery into fire and/or water.
 - Never deform or crush.

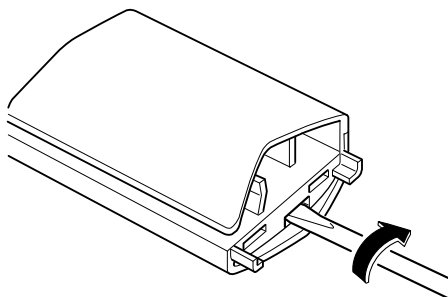
Replacing the transmitter battery

1. Unfold the key (page 3-22).

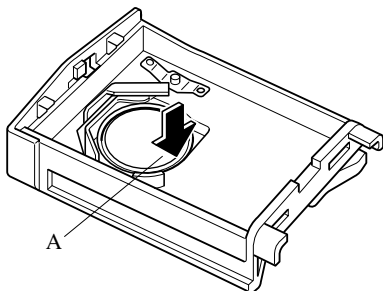
2. Insert a screwdriver into the slot and push the tab to remove the key from the transmitter.



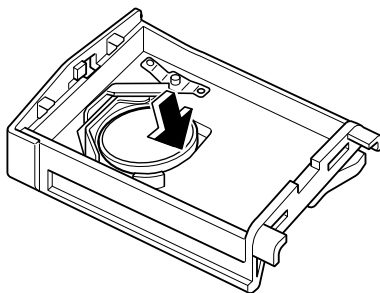
3. Insert a screwdriver into the slot and gently pry open the transmitter.



4. Remove the battery.



5. Put in the new battery (CR1620 or equivalent) with the positive pole (+) facing down.



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

7. Install the key to the transmitter.

▼ 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

Radio equipment like this is governed by laws in the United States. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Doors and Locks

Door Locks



WARNING

Always take all children and pets with you or leave a responsible person with them:

Leaving a child or a pet 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.

Do not leave the keys in your vehicle with children and keep them in a place where your children will not find or play with them:

Leaving children in a vehicle with the 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.

Keep all doors locked when driving: 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.

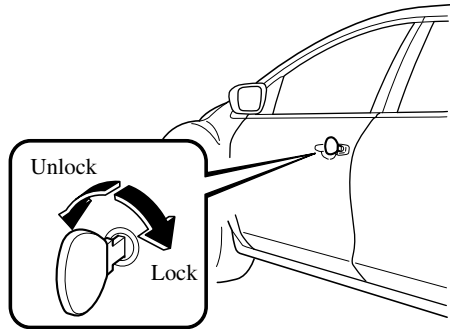
Always close all the windows, lock the doors and take the key with you when leaving your vehicle unattended:

Leaving your vehicle unlocked is dangerous as children could lock themselves in a hot vehicle, which could result in death. Also, a vehicle left unlocked becomes an easy target for thieves and intruders.

▼ Locking, Unlocking with Key

The driver's door can be locked/unlocked with the key.

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



▼ Locking, Unlocking with Request Switch (with Advanced Key)

The doors can be locked/unlocked by operating the request switch while carrying the advanced key outside the vehicle, refer to Operations Using Advanced Keyless Functions (page 3-7).

▼ Locking, Unlocking with Transmitter (with Advanced Key)

The doors can be locked/unlocked by operating the keyless entry system transmitter, refer to Keyless Entry System (page 3-14).

▼ Locking, Unlocking with Transmitter (with Retractable Type Key)

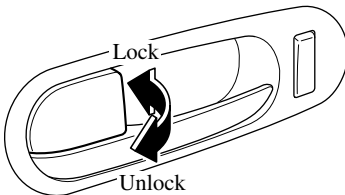
The doors can be locked/unlocked by operating the keyless entry system transmitter, refer to Keyless Entry System (page 3-23).

▼ Locking, Unlocking with Door-Lock Knob

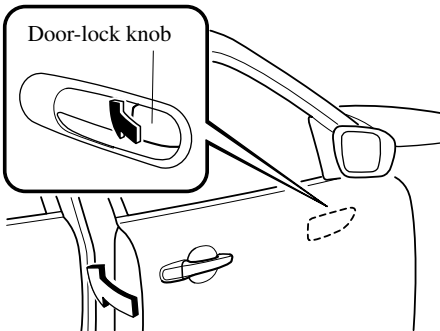
To lock any door from the inside, push the door-lock knob.

To unlock, pull it out.

This does not operate the other door locks.



To lock any door with the door-lock knob from the outside, push the door-lock knob to the lock position and close the door. This does not operate the other door locks.



NOTE

- **(With advanced key)**
The driver's door cannot be locked using the door-lock knob from the outside.
- **(With retractable type key)**
The driver's door cannot be locked using the door-lock knob from the outside if the key is in the ignition switch.
- When locking the doors this way, be careful not to leave the key inside the vehicle.

▼ Power Door Locks

Vehicle lock-out prevention

(With advanced key)

The vehicle lock-out prevention feature prevents you from locking yourself out of the vehicle. All doors and the liftgate will automatically unlock if they are locked using the power door locks with any door or the liftgate open.

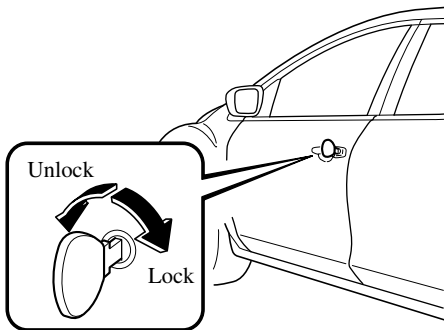
(With retractable type key)

The vehicle lock-out prevention feature prevents you from locking yourself out of the vehicle. With the key in the ignition switch, all doors and the liftgate will automatically unlock if they are locked using the power door locks with any door or the liftgate open.

Doors and Locks

Locking, unlocking with key

All doors and the liftgate lock automatically when the driver's door is locked with the key. All doors and the liftgate unlock when the driver's door is unlocked and the key is held in the unlock position for one second or longer.

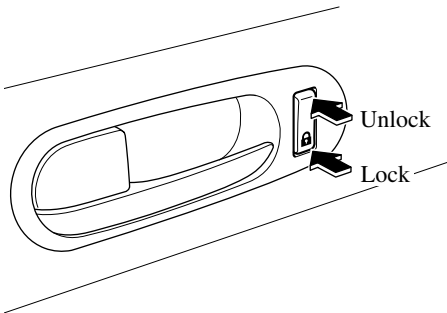


NOTE

Holding the key in the unlocked position in the driver's door lock for about a second unlocks all doors and the liftgate. To unlock only the driver's door, insert the 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 and the liftgate lock automatically when lock side is pushed. They all unlock when unlock side is pushed.



Locking, unlocking with request switch (with advanced key)

All doors and the liftgate can be locked/unlocked by operating the request switch while carrying the advanced key outside the vehicle, refer to Operations Using Advanced Keyless Functions (page 3-7).

Locking, unlocking with transmitter (with advanced key)

All doors and the liftgate can be locked/unlocked by operating the keyless entry system transmitter, refer to Keyless Entry System (page 3-14).

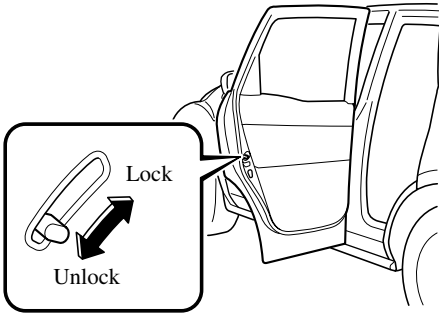
Locking, unlocking with transmitter (with retractable type key)

All doors and the liftgate can be locked/unlocked by operating the keyless entry system transmitter, refer to Keyless Entry System (page 3-23).

▼ Rear Door Child Safety Locks

These locks are intended to help prevent children from accidentally opening the rear doors. Use them both 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 pulling the outside handle.



Liftgate

WARNING

Never allow a person to ride in the luggage compartment:

Allowing a person to ride in the luggage compartment is dangerous. The person in the luggage compartment could be seriously injured or killed during sudden braking or a collision.

Do not drive with the liftgate open: Exhaust gas in the cabin of a vehicle is dangerous. An open liftgate in a moving vehicle will cause exhaust gas to be drawn into the cabin. This gas contains CO (carbon monoxide), which is colorless, odorless, and highly poisonous, and it can cause loss of consciousness and death. Moreover, an open liftgate could cause occupants to fall out in an accident.

▼ Locking, Unlocking with Key

The liftgate can be locked/unlocked by inserting the key into the driver's door key slot, refer to Power Door Locks (page 3-29).

▼ Locking, Unlocking with Request Switch (with Advanced Key)

The liftgate can be locked/unlocked by operating the request switch while carrying the advanced key outside the vehicle, refer to Operations Using Advanced Keyless Functions (page 3-7).

Doors and Locks

▼ Locking, Unlocking with Transmitter (with Advanced Key)

The liftgate can be locked/unlocked by operating the keyless entry system transmitter, refer to Keyless Entry System (page 3-14).

▼ Locking, Unlocking with Transmitter (with Retractable Type Key)

The liftgate can be locked/unlocked by operating the keyless entry system transmitter, refer to Keyless Entry System (page 3-23).

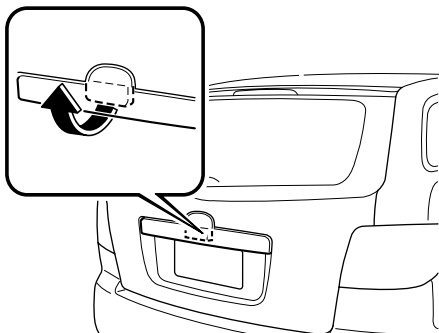
▼ Locking, Unlocking with Door-Lock Switch

The liftgate can be locked/unlocked by operating the door-lock switch, refer to Power Door Locks (page 3-29).

▼ Opening and Closing the Liftgate

Opening the liftgate

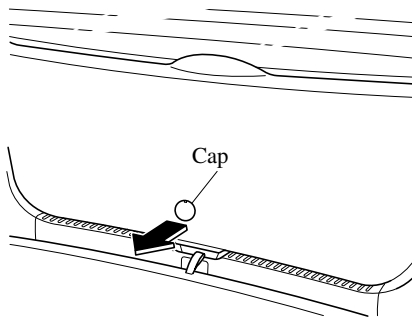
Pull up on the handle.



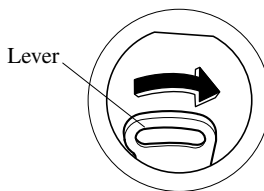
NOTE

If the vehicle battery is dead or there is a malfunction in the electrical system and the liftgate cannot be unlocked, perform the following procedure as an emergency measure to unlock it:

1. Remove the cap on the interior surface of the liftgate with a flathead screwdriver.



2. Turn the lever to the right to unlock the liftgate.



After performing this emergency measure, have the vehicle inspected at an Authorized Mazda Dealer as soon as possible.

Closing the liftgate

Use both hands to push the liftgate down until the lock snaps shut. Do not slam it. Pull up on the liftgate to make sure it is securely latched.

▼ Luggage Compartment

WARNING

Do not place luggage or other cargo on top of the luggage compartment cover:

Placing luggage or other cargo on top of the luggage compartment cover is dangerous. During sudden braking or a collision, the cargo could become a projectile that could hit and injure someone. The vehicle has a light weight luggage compartment cover to keep the contents of your luggage area out of sight; it will not retain heavy objects that are not tied down in an accident such as a rollover. Tie down all heavy objects, whether luggage or cargo, using the tie down hooks.

Make sure luggage and cargo is secured before driving:

Not securing cargo while driving is dangerous as it could move or be crushed during sudden braking or a collision and cause injury.

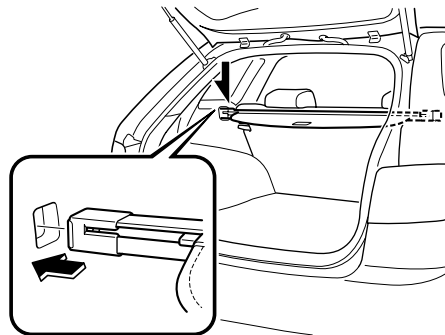
CAUTION

Make sure the luggage compartment cover is firmly secured. If it is not firmly secured, it could unexpectedly disengage resulting in injury.

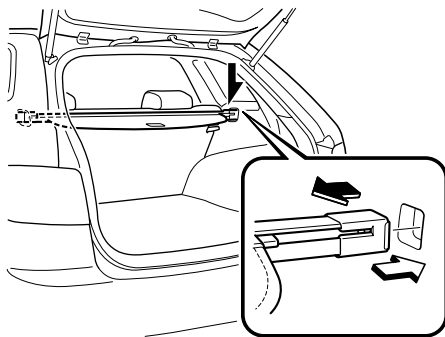
Luggage compartment cover*

Installing the cover

1. Insert the left end of the retractor bar into the notch.

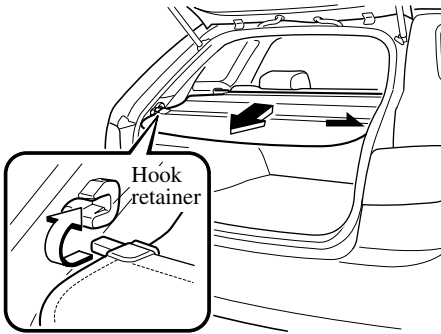


2. Squeeze the spring holder on right end of the retractor bar inward, then insert it into the notch.



Doors and Locks

3. Slowly pull out the cover and insert it into the retainers.



Removing the cover

Reverse the procedure for installation.

Power Windows

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

WARNING

Make sure the opening is clear before closing a window:

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.

Always lock all passenger power windows with the power window lock switch on the driver's side while children are in the vehicle, and never allow children to play with power window switches:

Leaving the power window switches unlocked while children are in the vehicle is dangerous. Power window switches that are not locked with the power window lock switch would allow children to operate power windows unintentionally which could result in serious injury if a child's hands, head or neck becomes caught by the window.

CAUTION

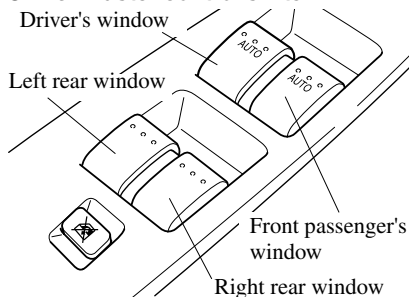
To prevent burning out the fuse and damaging the power window system, do not open or close more than three windows at once.

▼ Operating the Front Power Windows

NOTE

- Each passenger power window can be operated with each door switch when the power window lock switch on the driver's door is in the unlocked position (page 3-39).
- Each passenger power window can also be operated by the power window master control switches on the driver's door.

Owner master control switch

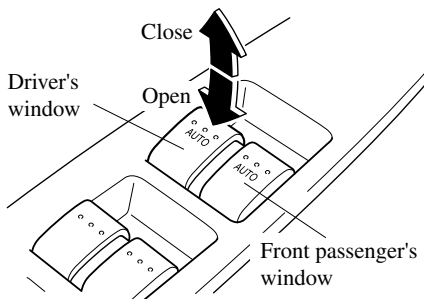


- The following functions can be performed for the front power windows using the power window master control switches on the driver's door or front passenger's door switch.
 - Manual opening/closing
 - Auto-opening/closing
 - Two-step down function

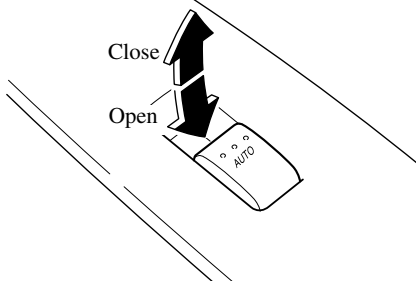
Manual opening/closing

To open a power window to the desired position, lightly hold down the switch. To close the power window to the desired position, lightly pull up the switch.

Master control switches



Front passenger switch



Auto-opening/closing

To fully open a power window automatically, press the switch completely down.

To fully close the power window automatically, pull the switch completely up.

To stop the power window partway, pull or press the switch in the opposite direction and then release it.

Doors and Locks

NOTE

If the battery was disconnected during vehicle maintenance, or for other reasons such as a switch continues to be operated after the window is fully open/close, the power windows will not fully open and close automatically. Re-initialization of the automatic function on the front passenger's power window cannot be performed using the master control switches. Carry out the following procedure on each door switch to resume operation:

1. Turn the ignition switch to the ON position.
2. Make sure that the power window lock switch located on the driver's door is not depressed.
3. Press the switch and fully open the power window.
4. Pull up the switch to fully close the power window and continue holding the switch for about 2 seconds after the window fully closed.
5. Repeat steps 3-4 for the front passenger power window while seated in the front passenger seat.
6. Make sure that the power windows operate correctly using the door switches.

Two-step down function

With the power window completely closed, press the switch lightly and it will open and stop about 3 cm (1 in) from the top.

If you continue to press and hold the switch, the window will resume opening all the way.

NOTE

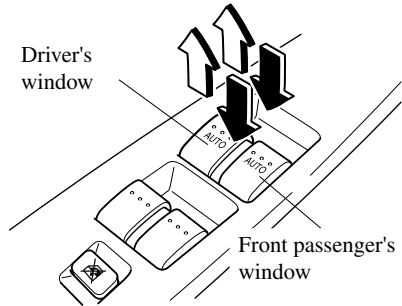
Pressing the power window switch once when the window is fully closed will only open it about 3 cm (1 in) to allow convenient ventilation of the cabin.

Canceling the two-step down function

To cancel the two-step down function for the front power windows, carry out the following procedure using the master control switches.

1. Turn the ignition switch to the ON position and complete the following procedure within 5 seconds:
Press the power window switch 2 times firmly, then pull it 2 times firmly.

Master control switches



2. Turn the ignition switch to the LOCK position.
3. With the ignition switch in the LOCK position, and within 40 seconds, turn the ignition switch to the ON position and complete the following procedure within 5 seconds:
Press the power window switch 2 times firmly, then pull 2 times firmly.

NOTE

- The two-step down function cannot be canceled if the procedure is not completed within the specified times, or the procedure is changed along the way. To redo the procedure, first turn the ignition switch to the LOCK position and proceed from the beginning.
- If you are unable to cancel the function despite carrying out the cancellation procedure, consult an Authorized Mazda Dealer.

Restoring the two-step down function

With the two-step down function in the canceled state, repeat the previous procedure for canceling the function on each door switch and it will be restored.

NOTE

If you are unable to restore the function despite doing the restore procedure, consult an Authorized Mazda Dealer.

Jam-safe window

If a person's hands, head or an object blocks the window during the manual closing operation or the auto-closing operation, the window will stop and open halfway.

**WARNING**

Make sure nothing blocks the window just before it reaches the fully closed position or while fully holding up the power window switch:

Blocking the power window just before it reaches the fully closed position or while fully holding up the power window switch is dangerous. In this case, the jam-safe function cannot prevent the window from stopping. If fingers are caught, serious injuries could occur.

NOTE

Depending on driving conditions, a closing power window could stop and start opening when the window feels a shock that is similar to something blocking it.

In the event the jam-safe function activates and the power window cannot be closed automatically, pull and hold the switch fully and the window will close.

Engine-off power window operation

The power window can be operated for about 40 seconds after the ignition switch is turned from the ON position to the ACC or LOCK position with all doors closed. If either front door is opened, the power window will be inoperable.

Doors and Locks

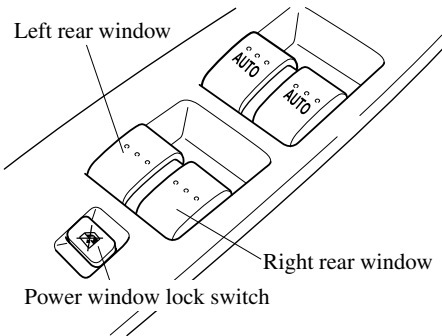
NOTE

- For engine-off operation of the power window, the switch must be held up firmly throughout window closure because the auto-closing function will be inoperable.
- The two-step down function is inoperable during engine-off operation.

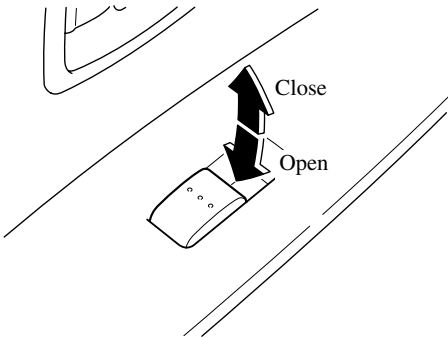
▼ Operating the Rear Power Windows

The power windows may be operated when the power window lock switch on the driver's door is in the unlocked position.

A rear power windows may be opened or closed using the power window master control switches on the driver's door.



To open the power window to the desired position, hold down the switch.
To close the power window to the desired position, pull up the switch.



Engine-off power window operation

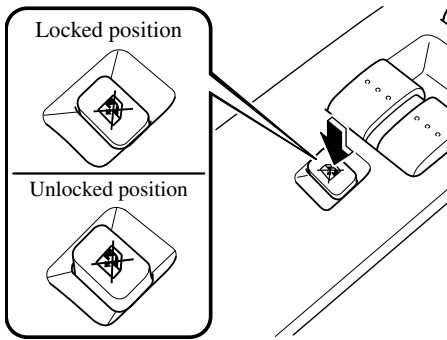
The power windows can be operated about 40 seconds after the ignition switch is turned from the ON position to the ACC or LOCK position with all doors closed. If either front door is opened, the power windows will be inoperable.

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 side power window can be operated.



WARNING

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

NOTE

When the power window lock switch is in the locked position, the light on front passenger's power window switch turns off. The light may be difficult to see depending on the surrounding brightness.

▼ Opening/Closing the Power Windows from Outside

The front power windows can be opened or closed from outside the vehicle after the doors and the liftgate are closed. The front power windows may be operated when the power window lock switch on the driver's door is in the lock or unlocked position.

WARNING

Make sure the opening is clear before closing a window:
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.

NOTE

The power windows cannot be opened or closed from outside the vehicle under the following condition:

- A door or the liftgate is opened.
- The key is inserted into the ignition switch.
- **(With advanced key)**
The start knob is in any position except LOCK.

Opening

Because nobody likes getting into a very hot car, Mazda has introduced a way to open the two front windows and the moonroof as you approach the vehicle to get the air moving before you get in.

Doors and Locks



WARNING

Use the auto-window function only when you can see the vehicle and it is in a secure area:

Do not let children play with your keys. If they open the window without your knowing, the open windows are an even bigger invitation to a thief than leaving the doors unlocked.

The windows can be opened for ventilating the cabin before getting in the vehicle.

With unlock button (Keyless entry system)

Press once, then press again within 1.5 seconds and hold.

After the doors and the liftgate are unlocked, the two front windows and the moonroof open while the unlock button is pressed.

To stop the windows and the moonroof while opening, release the button.

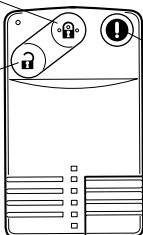
If the operation is performed from the beginning again, the windows and the moonroof open.

Advanced key

Lock button

Unlock button

Panic button

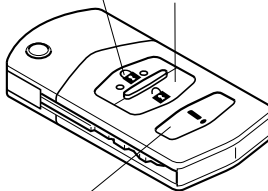


Retractable type key

Lock button

Unlock button

Panic button

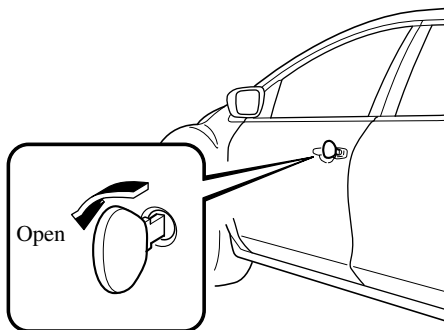


NOTE

- The unlock button does not operate unless it is pressed twice sequentially.
- The lock button cannot be used to close the power windows.

With key

1. Insert the key in the driver's door key cylinder.
2. Turn the key toward the front and hold it. After the doors and the liftgate are unlocked, the windows fully open automatically.



Doors and Locks

To stop this operation, turn the key to the center position, then turn it toward the front again.

NOTE

The window opening operation also can be stopped by turning the key toward the back. However, the doors and the liftgate will lock.

Closing

The windows can be closed in case they are left open after getting out of the vehicle.

NOTE

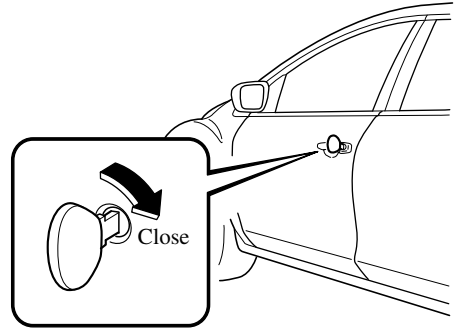
(With advanced key)

If the auto-lock function (page 3-8) has been activated, the doors and the liftgate automatically lock as you walk away from the vehicle, however, the power windows cannot be closed. When leaving the vehicle, close the windows using the power window switch inside the vehicle, the key, or a request switch.

With key

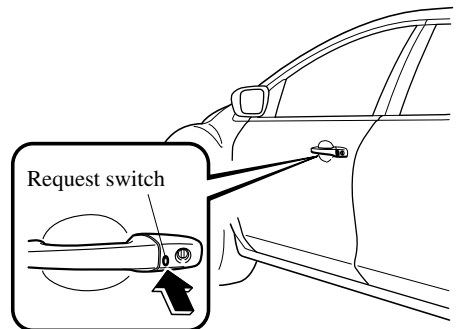
1. Insert the key in the driver's door key cylinder.

2. Turn the key toward the back and hold it. After the doors and the liftgate are locked, the windows close as long as the key is turned.



With request switch on the driver's door (Advanced key)

1. If the doors and the liftgate are locked, unlock them.
2. Press and hold the request switch on the driver's door. After the doors and the liftgate are locked, the windows close as long as the request switch is pressed.



Doors and Locks

Fuel-Filler Lid and Cap

WARNING

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

Before refueling, stop the engine, and always keep sparks and flames away from the filler neck:

Fuel vapor is dangerous. It could be ignited by sparks or flames causing serious burns and injuries.

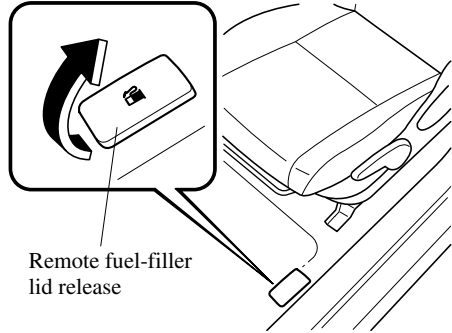
Additionally, use of the incorrect fuel filler cap or not using a fuel filler cap may result in fuel leak, which could result in serious burns or death in an accident.

CAUTION

Always use only a genuine Mazda fuel cap or an approved equivalent, available at an Authorized Mazda Dealer. 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.

▼ Fuel-Filler Lid

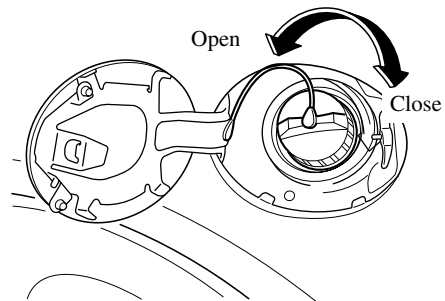
To open, pull up the remote fuel-filler lid release.



▼ Fuel-Filler Cap

To remove the filler cap, turn it counterclockwise.

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



⚠ CAUTION

Make sure the fuel-filler cap is tightened securely. The check engine light may illuminate 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.

Hood

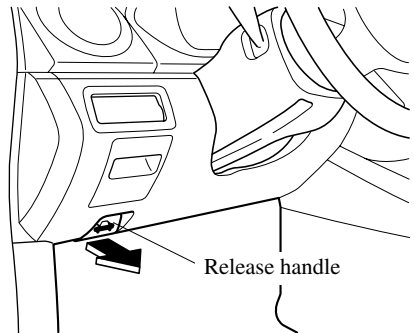
⚠ WARNING

Always check that the hood is closed and securely locked:

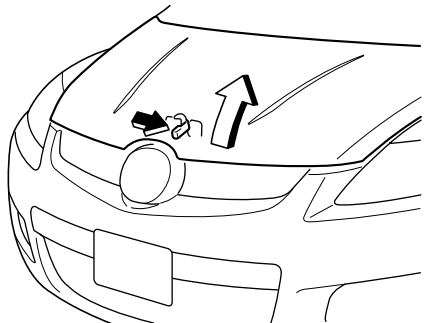
A hood that is not closed and securely locked is dangerous as it could fly open while the vehicle is moving and block the driver's vision which could result in a serious accident.

▼ Opening the Hood

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

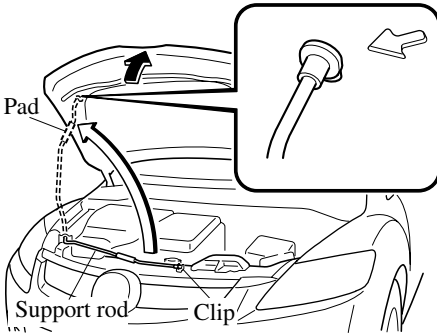


2. Slide the hood latch to the right and lift the hood.



Doors and Locks

3. Grasp the support rod in the padded area and secure it in the stay hole indicated by the arrow to hold the hood open.

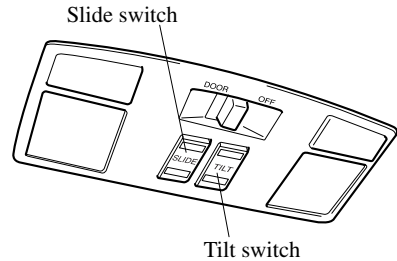


▼ Closing the Hood

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. Insert the support rod in its clip while holding up the hood. Verify that the support rod is secured in the clip before closing the hood.
3. Close the hood so that it locks securely.

Moonroof*

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



WARNING

Do not let passengers stand up or extend part of the body through the open moonroof while the vehicle is moving:

Extending the head, arms, or other parts of the body through the moonroof is dangerous. The head or arms could hit something while the vehicle is moving. This could cause serious injury or death.

Make sure the opening is clear before closing the moonroof:

A closing moonroof 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.

NOTE

After washing your Mazda or after a rain, wipe the water off the moonroof before operating it to avoid water penetration which could cause rust and water damage to your headliner.

▼ Operating the Moonroof

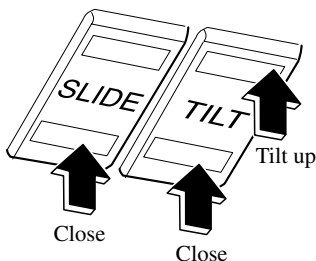
Tilt Operation

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

To fully tilt automatically, momentarily push the rear of the tilt switch.

To fully close automatically, momentarily push the front of the tilt or slide switch.

To stop tilting partway, push any part of the tilt or slide switch.

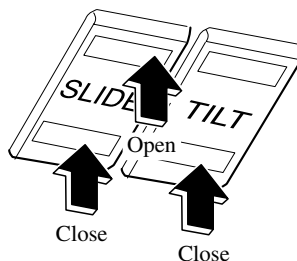


Slide Operation

To fully open automatically, momentarily push the rear of the slide switch.

To fully close automatically, momentarily push the front of the tilt or slide switch.

To stop sliding partway, push any part of the tilt or slide switch.



Re-initializing

If the battery had been disconnected during vehicle maintenance or for other reasons, the moonroof may not fully open or close. The moonroof's jam-safe function does not function while the moonroof is initializing. Carry out the following procedure to resume operation:

1. Turn the ignition switch to the ON position.
2. Push the rear of the tilt switch, to partially tilt open the rear of the moonroof.

NOTE

If the re-initialization procedure is performed while the moonroof is in the slide position (partially open) it closes before the rear tilts opens.

3. Repeat the procedure in Step 2. The rear of the moonroof tilts open to the fully open position, then closes a little.

Doors and Locks

▼ Engine-off Moonroof Operation

The moonroof can be operated for about 40 seconds after the ignition switch is turned from the ON position to the ACC or LOCK position with all doors closed. If any door is opened, the moonroof will be inoperable.

NOTE
For engine-off operation of the moonroof, the switch must be pushed firmly throughout moonroof closure because the auto-closing function will be inoperable.

▼ Opening/Closing the Moonroof from Outside

The moonroof can be opened or closed from outside the vehicle after the doors and the liftgate are closed.

 WARNING
<i><u>Make sure the opening is clear before closing the moonroof:</u> Closing the moonroof is dangerous. A person's hands, head, or even neck could be caught by the moonroof and result in serious injury or even death. This warning applies especially to children and pets.</i>

NOTE
The moonroof cannot be opened or closed from outside the vehicle under the following condition: • A door or the liftgate is opened. • The key is inserted into the ignition switch. • (With advanced key) The start knob is pushed into the ignition switch.

Opening

Because nobody likes getting into a very hot car, we have introduced a way to get a head start on cooling it, even before you put your seat belts on and insert your key in the ignition. If you see the vehicle is in a secure area, you can open the moonroof as you approach the vehicle to get the air moving before you even step into the hot vehicle.

 WARNING
<i><u>Use the auto-moonroof function only when you can see the vehicle and it is in a secure area:</u> Do not let children play with your keys. If they open the moonroof without your knowing, the open moonroof is an even bigger invitation to a thief than leaving the doors unlocked.</i>

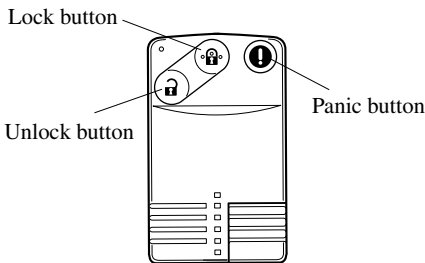
The moonroof can be opened for ventilating the cabin before getting in the vehicle.

Doors and Locks

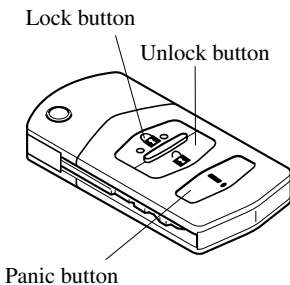
With unlock button (Keyless entry system)

Press the unlock button twice within 1.5 seconds and then hold the button pressed. After the doors and the liftgate are unlocked, the two front windows and the moonroof open while the unlock button is pressed.

Advanced key



Retractable type key



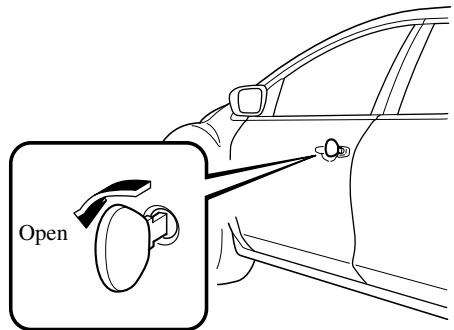
To stop the windows and the moonroof from opening, release the button. If the operation is performed from the beginning again, the windows and the moonroof open.

NOTE

- The unlock button does not operate unless it is pressed twice sequentially.
- The lock button cannot be used to close the moonroof.

With key

1. Insert the key in the driver's door key cylinder.
2. Turn the key toward the front and hold it. After the doors and the liftgate are unlocked, the moonroof fully opens automatically.



To stop this operation, turn the key to the center position, then turn it toward the front again.

NOTE

The moonroof opening operation also can be stopped by turning the key toward the back. However, the doors and the liftgate will lock.

Closing

The moonroof can be closed in case it is left open after getting out of the vehicle.

Doors and Locks

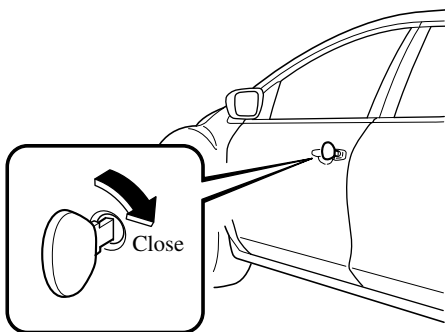
NOTE

(With advanced key)

If the auto-lock function (page 3-8) has been activated, the doors and the liftgate automatically lock as you walk away from the vehicle, however, for safety reasons, the moonroof cannot be closed. When leaving the vehicle, close the moonroof using the tilt or slide switch inside the vehicle, the key, or a request switch.

With key

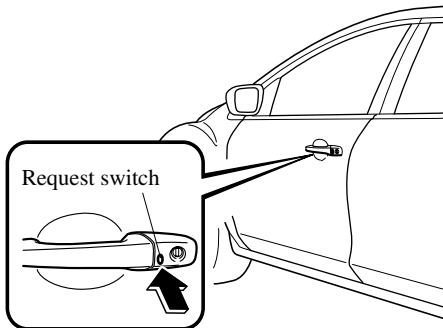
1. Insert the key in the driver's door key cylinder.
2. Turn the key toward the back and hold it. After the doors and the liftgate are locked, the moonroof closes while the key is turned.



With request switch on the driver's door (Advanced key)

1. If the doors and the liftgate are locked, unlock them.

2. Press the request switch on the driver's door and hold it. After the doors and the liftgate are locked, the moonroof closes while the request switch is pressed.



▼ Jam-safe Moonroof

If a person's hands, head or an object blocks the moonroof during closing operation, the moonroof will stop and open halfway.

WARNING

Make sure nothing blocks the moonroof just before it reaches the fully closed position:
Blocking the moonroof just before it reaches the closed position is dangerous.

In this case, the jam-safe function cannot prevent the moonroof from stopping. If fingers are caught, serious injuries could occur.

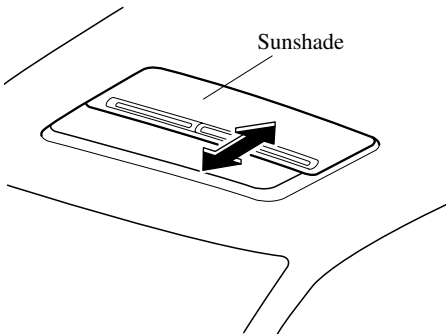
NOTE

- Depending on driving conditions, a closing moonroof could stop and start opening when the moonroof feels a shock that is similar to something blocking it.
- The moonroof's jam-safe function does not function while the moonroof is initializing.

▼Sunshade

The sunshade can be opened and closed by hand.

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

**CAUTION**

- The sunshade does not tilt. To avoid damaging the sunshade, do not push up on it.
- Do not close the sunshade while the moonroof is opening. Trying to force the sunshade closed could damage it.

Security System

Immobilizer System (with Advanced Key)

The immobilizer system allows the engine to start only with an advanced key the system recognizes.

If someone attempts to start the engine with an unrecognized key, the engine will not start, thereby helping to prevent the theft of your vehicle.

CAUTION

- Radio equipment like this is governed by laws in the United States.
Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
- To avoid damage to the key, do not:
 - Drop the key.
 - Get the key wet.
 - Expose the key to any kind of magnetic field.
 - Expose the key to high temperatures on places such as the dashboard or hood, under direct sunlight.

CAUTION

- Do not allow the following when starting the engine with the auxiliary key due to an advanced key dead battery or other malfunction. Otherwise the signal from the auxiliary key will not be received correctly and the engine may not start.
- Metal parts of other keys or metal objects touch the key grip.
 - Spare auxiliary keys or keys for other vehicles equipped with an immobilizer system touch or come near the auxiliary key.
 - Equipment containing electronic components or cards with magnetic strips such as credit cards come near the auxiliary key.

NOTE

- **(U.S.A.)**
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.
- **(CANADA)**
This device complies with RSS-210 of Industry CANADA. Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

▼ Operation

Arming

The system is armed when the ignition switch is turned from the ON position to the ACC or LOCK position. The security indicator light in the instrument cluster flashes every 2 seconds until the system is disarmed.



Disarming

The system is disarmed when the ignition switch is turned to the ON position with the registered advanced key. The security indicator light illuminates for about 3 seconds and goes out.

If the engine doesn't start with the correct ignition key, and the security indicator light keeps illuminating or flashing, the system may have a malfunction. Consult an Authorized Mazda Dealer.

NOTE

- The engine may not start and the security indicator light may illuminate or flash if the advanced key is placed in an area where it is difficult for the system to detect the signal, such as on the dashboard, or in the glove box. Move the advanced key to another place, turn the ignition switch to the LOCK position, and then restart the engine.
- Signals from a TV or radio station, or from a transceiver or a mobile telephone could interfere with your immobilizer system. If you are using the proper advanced key and the engine fails to start, check the security indicator light. If the indicator light is flashing, turn the ignition switch to the ACC or LOCK position and wait for a while, then restart the engine. If it doesn't start after 3 or more tries, contact an Authorized Mazda Dealer.
- If the security indicator light flashes continuously while you are driving, don't shut off the engine. Go to an Authorized Mazda Dealer and have it checked. If the engine is shut off while the indicator light is flashing, you won't be able to restart it.
- Since the electronic codes are reset when repairing the immobilizer system, the advanced key (including auxiliary key) are needed. Bring all the advanced keys (including auxiliary keys) to an Authorized Mazda Dealer.

Security System

▼ Maintenance

If you have a problem with the immobilizer system or the key, consult an Authorized Mazda Dealer.

NOTE • The advanced keys (including auxiliary key) carry a unique electronic code. For this reason, and to assure your safety, obtaining a replacement advanced key (including auxiliary key) requires some waiting time. They are only available through an Authorized Mazda Dealer. • Always keep a spare advanced key in case one is lost. If an advanced key is lost, consult an Authorized Mazda Dealer as soon as possible. • If you lose an advanced key (including auxiliary key), an Authorized Mazda Dealer will reset the electronic codes of your remaining advanced keys (including auxiliary keys) and immobilizer system. Bring all the remaining advanced keys (including auxiliary keys) to an Authorized Mazda Dealer to reset. Starting the vehicle with a key that has not been reset is not possible.

▼ Modification and Add-On Equipment

Mazda cannot guarantee the immobilizer system's operation if the system has been modified or if any add-on equipment has been installed to it.

 CAUTION
To avoid damage to your vehicle, do not modify the system or install any add-on equipment to the immobilizer system or the vehicle.

Immobilizer System (without Advanced Key)

The immobilizer system allows the engine to start only with a key the system recognizes.

If someone attempts to start the engine with an unrecognized key, the engine will not start, thereby helping to prevent the theft of your vehicle.

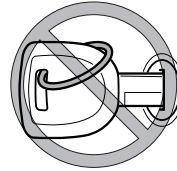
CAUTION

- Radio equipment like this is governed by laws in the United States. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
- To avoid damage to the key, do not:
 - Drop the key.
 - Get the key wet.
 - Expose the key to any kind of magnetic field.
 - Expose the key to high temperatures on places such as the dashboard or hood, under direct sunlight.

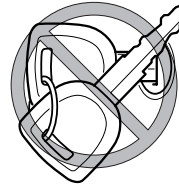
CAUTION

When starting the engine do not allow the following, as the engine may not start due to the electronic signal from the ignition key not being transmitted correctly.

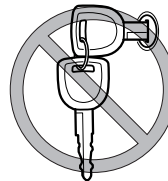
- A key ring rests on the key grip.



- Metal parts of other keys or metal objects touch the key grip.



- Spare keys or keys for other vehicles equipped with an immobilizer system touch or come near the key grip.



- Devices for electronic purchases, or security passage touch or come near the key.

Security System

NOTE

- **(U.S.A.)**

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.

- **(CANADA)**

This device complies with RSS-210 of Industry CANADA. Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

▼ Operation

Arming

The system is armed when the ignition switch is turned from the ON to the ACC position.

The security indicator light in the instrument panel flashes every 2 seconds until the system is disarmed.



Disarming

The system is disarmed when the ignition switch is turned to the ON position with the correct ignition key.

The security indicator light illuminates for about 3 seconds and goes out.

If the engine doesn't start with the correct ignition key, and the security indicator light keeps illuminating or flashing, the system may have a malfunction. Consult an Authorized Mazda Dealer.

NOTE

- If the security indicator light comes on and stays on when the ignition switch is turned to the ON position, the engine will not start.
- Signals from a TV or radio station, or from a transceiver or a mobile telephone, could interfere with your immobilizer system. If you are using the proper key and your engine fails to start, check the security indicator light. If it is flashing, remove the ignition key and wait 2 seconds or more, then reinsert it and try starting the engine again. If it doesn't start after 3 or more tries, contact an Authorized Mazda Dealer.
- If the security indicator light flashes continuously while you are driving, don't shut off the engine. Go to an Authorized Mazda Dealer and have it checked. If you shut off the engine while the light is flashing you won't be able to restart it.

NOTE

- Since the electronic codes are reset when repairing the immobilizer system, the keys are needed. Bring all the existing keys to an Authorized Mazda Dealer.

▼ Maintenance

If you have a problem with the immobilizer system or the key, consult an Authorized Mazda Dealer.

NOTE

- The keys carry a unique electronic code. For this reason, and to assure your safety, obtaining replacement key requires some waiting time. They are only available through an Authorized Mazda Dealer.
- Always keep a spare key, in case one is lost. If a key is lost, contact an Authorized Mazda Dealer as soon as possible.
- If you lose a key, an Authorized Mazda Dealer will reset the electronic codes of your remaining keys and immobilizer system. Bring all the remaining keys to an Authorized Mazda Dealer to reset. Starting the vehicle with a key that has not been reset is not possible.

▼ Modification and Add-On Equipment

Mazda cannot guarantee the immobilizer system's operation if the system has been modified or if any add-on equipment has been installed to it.

 CAUTION

To avoid damage to your vehicle, do not modify the system or install any add-on equipment to the immobilizer system or the vehicle.

Security System

Theft-Deterrent System *

The theft-deterrent system is designed to prevent your vehicle or its contents from being stolen when all doors, hood, and liftgate are locked.

If forcible entry is attempted, the system sounds the horn and flashes the hazard warning lights.

NOTE

- The theft-deterrent system operates with the key or the keyless entry system transmitter.
- **(With advanced key)**
The theft-deterrent system can also be operated using a request switch or the start knob.
The system operates only when the driver is in the vehicle or within operational range while the advanced key is being carried.
- The system will not function unless it is properly armed. To properly secure the vehicle, always make sure all windows are completely closed and all doors and the liftgate are locked before leaving the vehicle. Remember to take your key and transmitter.

▼ Operation

System triggering conditions

The horn sounds intermittently and the hazard warning lights flash for about 25 seconds when the system is triggered by any one of the following:

- Forcing open a door, the hood or the liftgate.

- Unlocking a door with the inside door-lock knob.
- Unlocking a door with the door lock switch.
- Opening a door by operating an inside door-lock knob.
- Opening the hood by operating the hood release handle.

If the system is triggered again, the lights and horn will activate until a door or the liftgate is unlocked with the key or with the transmitter.

(With advanced key)

The lights and horn can also be deactivated by pressing a request switch.

▼ How to Arm the System

1. Remove the key from the ignition switch.
(With advanced key)
Turn the start knob to the LOCK position.
2. Make sure the hood is closed. Close and lock all doors and the liftgate from the outside using the key or press the lock button on your keyless entry system transmitter.
(With advanced key)
Press a request switch or the lock button on the transmitter.

The hazard warning lights will flash once to indicate that the system is armed.

(Without advanced key)

The following method will also arm the theft-deterrent system:

Close the hood and the liftgate . Press the area on the door-lock switch marked “ ” once. Close all doors.

NOTE
Locking the doors with the inside door-lock knob will not arm the system.

▼ To Turn off an Armed System

An armed system can be turned off by any one of the following methods:

- Unlock a door with the key.
- Press the unlock button on the keyless entry system transmitter.
- Insert the key into the ignition switch and turn it to the ON position.
- **(With advanced key)**
 - Press a request switch or the unlock button on the transmitter.
 - Turn the start knob to the ON position.

The hazard warning lights will flash twice to indicate that the system is turned off.

▼ To Stop an Alarm

A triggered alarm can be turned off by any one of the following methods:

- Unlock a door with the key.
- Press the unlock button on the keyless entry system transmitter.
- **(With advanced key)**
 - Press a request switch.
 - Press the unlock button on the transmitter.

NOTE
If you have any problem with the theft-deterrent system, consult an Authorized Mazda Dealer.

▼ Theft-Deterrent Labels



A label indicating that your vehicle is equipped with a Theft-Deterrent System is in the glove box.

Mazda recommends that you affix it to the lower rear corner of a front door window.

Steering Wheel and Mirrors

Steering Wheel

WARNING

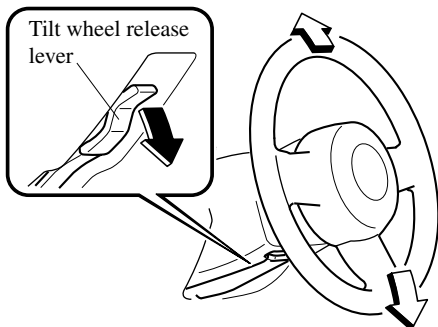
Never adjust the steering wheel while the vehicle is moving:

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.

▼ Tilt Steering 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

Check the mirror angles before driving.

Mirror type

Flat type (driver's side)

Flat surface mirror.

Convex type (front passenger side)

The mirror has single curvature on its surface.

WARNING

Be sure to look over your shoulder before changing lanes:

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.

Power control mirror

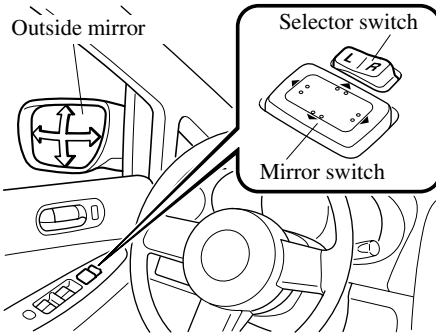
The ignition switch must be in the ACC or ON position.

To adjust:

1. Press the left or right side of the selector switch to choose the left or right side mirror.

Steering Wheel and Mirrors

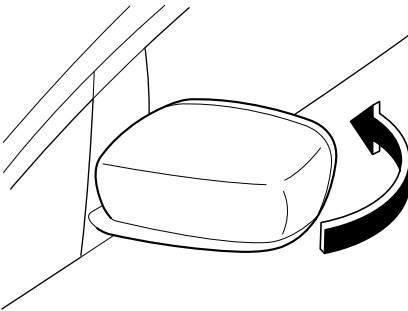
- Depress the mirror switch in the appropriate direction.



After adjusting the mirror, lock the control by placing the selector switch in the middle position.

Folding the mirror

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



! WARNING

Always return the outside mirrors to the driving position before you start driving:

Driving with the outside mirrors folded in is dangerous. Your rear view will be restricted, and you could have an accident.

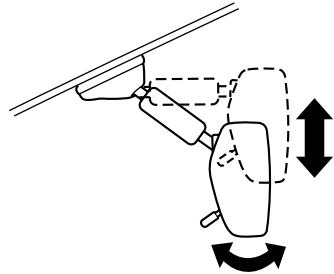
Mirror defroster *

To turn on the mirror defrosters, turn the ignition switch to the ON position and push the rear window defroster switch (page 5-58).

▼ Rearview Mirror

Rearview mirror adjustment

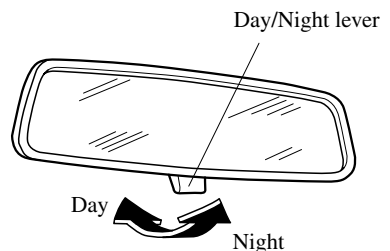
Before driving, adjust the rearview mirror to center on the scene through the rear window.



Reducing glare from headlights

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.



Steering Wheel and Mirrors



WARNING

Do not stack cargo or objects higher than the seatbacks:

Cargo 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.

4

Before Driving Your Mazda

Important information about driving your Mazda.

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Fuel and Engine Exhaust Precautions

Fuel Requirements

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

Your Mazda will perform best with fuel listed in the table.

Fuel	Octane Rating* (Anti-knock index)
Premium unleaded fuel	91 [(R+M)/2 method] or above (96 RON or above)

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

This vehicle is designed for and requires use of premium unleaded fuel. If 91 octane fuel [(R+M)/2 method] (96RON) is not available, gasoline as low as 87 octane [(R+M)/2 method] (91RON) can be used temporarily for emergency purposes. Use of gasoline lower than 91 octane [(R+M)/2 method] (96RON) can decrease performance and deteriorate shift quality during its use. Refueling the vehicle with the correct octane fuel a couple of times will restore vehicle performance and shift quality.

 **CAUTION**

- **USE ONLY UNLEADED FUEL.**
Leaded fuel is harmful to the catalytic converter or the oxygen sensor. 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.

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”.

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.

Fuel and Engine Exhaust Precautions

Emission Control System

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

WARNING

Never park over or near anything flammable:

Parking over or near anything flammable, such as dry grass, is dangerous. Even with the engine turned off, the exhaust system remains very hot after normal use and could ignite anything flammable. A resulting fire could cause serious injury or death.

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 2 minutes.
- Don't tamper with the emission control system. All inspections and adjustments must be made by a qualified technician.
- Don't push-start or pull-start your vehicle.

NOTE

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.

NOTE

While the engine is off, the sound of a valve opening and closing can be heard at the middle rear of the vehicle, however this does not indicate an abnormality. Your vehicle has a self-checking device and it operates while the engine is off.

Fuel and Engine Exhaust Precautions

Engine Exhaust (Carbon Monoxide)

WARNING

Do not drive your vehicle if you smell exhaust gas inside the vehicle:

Engine exhaust gas 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.

Do not run the engine when inside an 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.

Open the windows or adjust the heating or cooling system to draw fresh air when idling the engine:

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

Clear snow from underneath and around your vehicle, particularly the tail pipe, before starting the engine:

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, it could cause loss of consciousness or even death to occupants in the cabin.

Before Starting the Engine

Before Getting In

- Be sure the windows, outside mirrors, and outside lights are clean.
- Inspect inflation pressures and condition of tires.
- Look under the vehicle for any sign of fluid leaks.
- If you plan to back up, make sure nothing is in your way.

NOTE
Engine oil, engine coolant, brake fluid, washer fluid, and other fluid levels should be inspected. See Maintenance, Section 8.

After Getting In

- Are all doors closed and locked?
- Is the seat adjusted properly?
- Are the inside and outside mirrors adjusted?
- Is everyone's seat belt fastened?
- 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, either slow or fast, for a long period of time.
- Don't drive constantly at full-throttle or high engine rpm for extended periods of time.
- Avoid unnecessary hard stops.
- Avoid full-throttle starts.
- Don't tow a trailer.

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 8-3) 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

Never stop the engine when going down a hill:

Stopping the engine when going down a hill is dangerous. This causes the loss of power steering and power brake control, and may cause damage to the drivetrain. Any loss of steering or braking control could cause an accident.

Hazardous Driving

▼ Driving on Slippery Surface

WARNING

Be extremely careful if it is necessary to downshift 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.

Do not rely on ABS as a substitute for safe driving:

The ABS cannot compensate for unsafe and reckless driving, excessive speed, tailgating (following another vehicle too closely), driving on ice and snow, and hydroplaning (reduced tire friction and road contact because of water on the road surface). You can still have an accident.

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

- Be cautious and allow extra distance for braking.
- Avoid sudden braking and sudden maneuvering.
- Do not pump the brakes. Continue to press down on the brake pedal.
- If you get stuck, select a lower gear and accelerate slowly. Do not spin the front wheels.

- For more traction in starting on slippery surfaces such as ice or packed snow, use sand, rock salt, chains, carpeting, or other nonslip material under the front wheels.

NOTE

Use snow chains only on the front wheels.

▼ Roll-over

WARNING

Avoid sharp turns, excessive speed and abrupt maneuvers when driving this vehicles:

Vehicles with a higher center of gravity such as utility and AWD vehicles handle differently than vehicles with a lower center of gravity. Utility and AWD vehicles are not designed for cornering at speeds as high as passenger cars any more than low-slung sport cars are designed to perform satisfactorily under off-road conditions. Failure to drive cautiously could result in an increase risk of loss of vehicle control, vehicle roll-over, personal injury and death. Utility vehicles have a significantly higher rollover rate than other types of vehicles.

Driving Tips

Rocking the Vehicle



WARNING

Do not spin the wheels at more than 56 km/h (35 mph), and do not allow anyone to stand behind a wheel when pushing the vehicle:

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.



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 slowly move the shift lever from D to R.

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 an Authorized Mazda Dealer to perform the following precautions:

- Have the proper ratio of antifreeze in the radiator.
Refer to Engine Coolant on page 8-20.
- Inspect the battery and its cables. Cold reduces battery capacity.
- 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 8-26).
- Don't use the parking brake in freezing weather as the parking brake may freeze. Instead, shift to P and block the rear wheels.

▼ Snow Tires

Use snow tires on all four wheels

Don't go faster than 120 km/h (75 mph) while driving with snow tires. Inflate snow tires 30 kPa (0.3 kgf/cm², 4.3 psi) more than recommended on the tire pressure label (driver's door frame), but never more than the maximum cold-tire pressure shown on the tires.

**WARNING**

Use only the same size and type tires (snow, radial, or non-radial) on all four wheels:

Using tires different in size or type is dangerous. Your vehicle's handling could be greatly affected and result in an accident.

**CAUTION**

Check local regulations before using studded tires.

NOTE

If your vehicle is equipped with the tire pressure monitoring system, the system may not function correctly when using tires with steel wire reinforcement in the sidewalls (page 5-28).

▼ Tire Chains

Check local regulations before using tire chains.

**CAUTION**

- Chains may affect handling.
- Do not 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.
- Do not use chains on a temporary spare tire; it may result in damage to the vehicle and to the tire.
- Do not use chains on roads that are free of snow or ice. The tires and chains could be damaged.
- Chains may scratch or chip aluminum wheels.

NOTE

If your vehicle is equipped with the tire pressure monitoring system, the system may not function correctly when using tire chains.

Install the chains on the front tires.
Do not use chains on the rear tires.
Use only genuine Mazda tire chains.
Please consult an Authorized Mazda Dealer.

Driving Tips

Installing the chains

1. Secure the chains on the front tires as tightly as possible. Always follow the chain manufacturer's instructions.
2. Retighten the chains after driving 1/2 —1 km (1/4—1/2 mile).

Driving In Flooded Area

 WARNING

Dry wet brakes by driving very slowly and applying the brakes lightly until brake performance returns to normal: 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.

 CAUTION

Do not drive the vehicle on flooded roads as it could cause short circuiting of electrical/electronic parts, or engine damage or stalling from water absorption. If the vehicle has been immersed in water, consult an Authorized Mazda Dealer.

Overloading



WARNING

Be careful not to overload your vehicle:

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.

Driving Tips

Turbocharger Information

The turbocharger greatly enhances engine power. Its advanced design provides improved operation and requires minimum additional maintenance. To get maximum performance from your turbocharged engine, take note of the following tips:

- The turbocharged engine is designed for optimal operation with premium unleaded gasoline (page 4-2). Do not use fuel with a lower octane rating. Extra fuel additives are NOT recommended.
- Change the engine oil and filter using the turbo engine interval outlined in the maintenance schedule (for your driving condition).
- Use only the recommended engine oil (page 8-18). Extra oil additives are NOT recommended.
- After driving at freeway speeds or up a long hill, idle the engine at least 30 seconds to cool the turbo before turning off the engine. Avoid simply shutting the engine off abruptly after a hard or long drive. Damage to the turbocharger may result.
- Don't race or over-rev the engine when starting. This should not be done with ANY engine, especially not with one that's turbocharged.
- Do not add any aftermarket devices to alter the engine's ignition timing, fuel delivery, or turbo boost pressure. This may lead to serious engine damage and may void your warranty.

Trailer Towing

Your Mazda was designed and built primarily to carry passengers and cargo. If you must tow a trailer, follow these instructions because driver and passenger safety depends on proper equipment and safe driving habits. Towing a trailer will affect handling, braking, durability, performance, and economy. Never overload vehicle or trailer. Consult an Authorized Mazda Dealer if you need further details.

CAUTION

Don't tow a trailer during the first 1,000 km (600 miles) of your new Mazda. If you do, you may damage the engine, transaxle, differential, wheel bearings, and other power train components.

▼ Weight Limits

TTW and GCWR

The total trailer weight (TTW), gross combination weight rating (GCWR), gross axle weight rating (GAWR), trailer load, and trailer tongue load must be within the prescribed limits.

- The total trailer weight (TTW) is the sum of the weights of the trailer load (trailer weight plus cargo), trailer hitch, vehicle passengers, and vehicle load. Never allow the total trailer weight (TTW) to exceed specifications in the Trailer Towing-Load Table.
- The maximum GCWR is the combination weight of the trailer and load plus the towing vehicle (including trailer hitch, vehicle passengers, and load). It must not exceed specifications in the load table.

GAWR and GVWR

Don't exceed front and rear GAWR (gross axle weight rating) and GVWR (gross vehicle weight rating). If you do, vehicle handling, braking, and performance will be affected. These values are also on the Motor Vehicle Safety Certification Label posted on the driver's door frame.

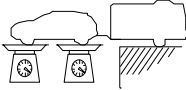
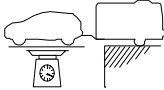
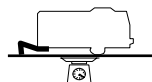
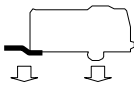
High-altitude operation

In a high-altitude operating environment, a gasoline engine loses power at a rate of 3% to 4% per 304 m (1,000 ft) of elevation. In these conditions, a reduction in gross vehicle weight and gross combination weight is recommended.

Towing

TRAILER TOWING-LOAD TABLE

Because vehicle weights vary, adjustments must be made to meet the requirements in this table.

Item			Model	
			2WD	AWD
MAX. FRONTAL AREA			2.97 m²(32 ft²)	
MAX. TTW	Add trailer's weight, load and hitch; vehicle passengers and vehicle load* * i.e. baggage, food, camp gear 		907 kg (2,000 lb)	
MAX. GCWR			2,815 kg (6,206 lb)	2,914 kg (6,424 lb)
MAX. GAWR		Front	1,150 kg (2,535 lb)	1,189 kg (2,621 lb)
		Rear	1,022 kg (2,253 lb)	1,083 kg (2,388 lb)
MAX. GVWR			2,168 kg (4,780 lb)	2,267 kg (4,998 lb)
TRAILER-TONGUE LOAD	Tongue load		Tongue load/Trailer load × 100 = 10% to 15%	
	Trailer load			
DISTRIBUTION OF TRAILER LOAD		Front	60%	
		Rear	40%	

GCWR: Gross Combination Weight Rating (sum of TTW, vehicle weights and 2 passengers)

GAWR: Gross Axle Weight Rating

GVWR: Gross Vehicle Weight Rating

 WARNING

Always keep tow loads within specified limits as indicated in the Trailer Towing-Load Table:

Attempting to tow loads greater than those specified is dangerous as it may cause serious handling and performance problems that could result in personal injury or vehicle damage, or both.

Load your trailer with the weight about 60% toward the front and 40% toward the rear:

Loading the trailer with more weight in the rear than in the front is dangerous. Doing so could cause you to lose control. The trailer tongue load must be 10%—15% of the total trailer load (sum of the weights of the trailer and cargo).

Always have the total trailer weight and tongue load determined prior to departure:

Attempting to tow loads without determining the total trailer weight and tongue load is dangerous. Trailer sway from crosswinds, rough roads or other causes could result in loss of control and a serious accident.

 CAUTION

The total trailer weight and tongue load can be determined by weighing the trailer on platform scales at a highway weight station or a trucking company.

▼ Trailer Hitch

Use only a hitch ball recommended by the trailer manufacturer that conforms to the gross trailer weight requirement.

When not towing a trailer, remove the trailer hitch (if detachable) to reduce the possibility of damage as a result of the vehicle being rear-ended.

Towing

 WARNING

Always make sure the trailer hitch is securely attached before departure:
An unsecured trailer hitch is dangerous as it causes greater trailer sway from crosswinds, rough roads or other causes, resulting in loss of control and a serious accident.
Examine all trailer-hitch mounting bolts regularly and tighten any that are loose. If the hitch is removed, seal any open mounting holes to prevent exhaust, dust, water, dirt and other foreign elements from filtering in, possibly endangering personal safety and damaging your vehicle.
Do not install a hitch that stiffens the bumper as it will reduce the bumper's performance.

Make sure there are no exhaust gas leaks into the passenger compartment if any mounting bolts are connected to the body:
Modifying your vehicle exhaust system is dangerous. Exhaust gas entering the vehicle could cause loss of consciousness or even death.
When mounting the trailer hitch, make no modifications to the vehicle exhaust system.

 CAUTION

- Make all hitch adjustments with actual loads. Don't load and unload vehicle while adjusting hitch. This action will change the vehicle height.
- Don't use an axle-mounted hitch. This may damage the axle and related parts.

▼ **Tires**

When towing a trailer, make sure all tires are inflated to the recommended cold-tire pressure, as indicated on the tire pressure chart on the driver's door frame. Trailer tire size, load rating, and inflation pressures should conform to tire manufacturer specifications.

 WARNING

Never use the temporary spare tire when towing:
Using the temporary spare tire on your vehicle when towing a trailer is dangerous as it could result in tire failure, loss of control, and injury to vehicle occupants.

▼ Safety Chains

Safety chains must be used as a precautionary measure should the trailer become unintentionally unhitched. They should cross under the trailer tongue and attach to the hitch. Leave enough slack to allow full turns. Consult literature published by your trailer or hitch manufacturer for more details.

WARNING

Make sure the safety chain is securely attached to both the trailer and the vehicle prior to departure:

Towing a trailer without using a safety chain securely attached to both the trailer and the vehicle is dangerous. If damage occurs to the coupling unit or hitch ball, the trailer could wander into another lane and cause a collision.

▼ Trailer Lights

Trailer lights must comply with all federal, state, and local regulations. Equip your trailer as required before towing it day or night.

CAUTION

Don't connect a trailer lighting system directly to the lighting system of your Mazda. This may damage your vehicle's electrical system and lighting systems. Have a recreational vehicle dealer or trailer rental agency connect the system, and inspect the brake lights and turn signals yourself before each trip.

▼ Trailer Brakes

If the total trailer weight exceeds 450 kg (1,000 lb), trailer brakes are required. If your trailer has brakes, make sure they comply with all federal, state, and local regulations.

WARNING

Do not connect a hydraulic trailer-brake system to your vehicle's brake system: Connecting a hydraulic trailer-brake system directly to the vehicle brake system is dangerous and will result in inadequate braking and possible injury.

Towing

▼ Trailer Towing Tips

- Verify that your Mazda maintains a near-normal attitude when a loaded or unloaded trailer is connected. Don't drive if it has an abnormal front-up or front-down position. Inspect for incorrect tongue load, worn suspension parts, and trailer overloading.
- Make sure the trailer is properly loaded and the cargo is secure to prevent it from shifting.
- Make sure the mirrors conform to all government regulations. If they do not, install required rear view mirrors appropriate for towing purposes.

The three main causes of vehicle-trailer accidents are driver error, excessive speed, and improper trailer loading.

Before driving

- Have your cooling and braking system checked by an Authorized Mazda Dealer.
- Before starting out, inspect the operation of all vehicle and trailer lights and all vehicle-to-trailer connections. Stop and re-inspect all lights and connections after driving a short distance.

Driving

- Your Mazda will handle differently with a trailer in tow, so practice turning, backing, and stopping in a traffic-free area.
- Take time to get accustomed to the extra weight and length.
- Allow more room between your vehicle and the one in front because braking distance increases with a trailer. For each 16 km/h (10 mph) of speed, allow at least one vehicle and trailer length between your Mazda and the vehicle ahead.
- Avoid jerky starts or sudden acceleration.
- Avoid sudden braking. It may cause loss of control and result in jackknifing, especially so on wet or slippery roads.
- Shift the shift lever to the D position when towing a trailer in hilly terrain or when heavily loaded.

These positions will allow operating the vehicle without frequent shifting.

Lane changes and turning

Avoid quick lane changes, sudden turns, and tight turns. Slow down before turning to avoid the need of sudden braking.

A turning trailer will make a tighter arc than the tow vehicle. Compensate with turns that are larger than normal.

Passing

Plan well ahead to pass other vehicles, and provide plenty of room before changing lanes. Crosswinds from passing vehicles, especially larger ones, and the effects of rough roads will affect handling.

If swaying occurs, firmly grip the steering wheel and reduce speed immediately, but gradually.

Steer straight ahead. If no extreme correction of steering or braking is made, the combination of less speed and firm steering will result in stability.

Backing up

Backing a vehicle with a trailer requires practice and patience. Back slowly, and have a helper outside at the rear of the trailer to reduce the risk of an accident.

To turn the trailer, place your hand at the bottom of the steering wheel and turn it in the direction you want the trailer to go. Make only slight movements to prevent sharp or prolonged turning.

Ascending a hill

Shift into a lower gear to reduce the possibility of overloading or overheating the engine, or both.

Descending a hill

Shift into a lower gear and use engine compression as a braking effect.

 WARNING

Always use lower gears to reduce speed:

Holding the brake pedal down too long or too frequently is dangerous as it could cause the brakes to overheat and lose power, resulting in loss of control and a serious accident. Use lower gears to help reduce speed. Pull off the road and allow brakes to cool down whenever braking performance feels reduced.

Overheated engine

The extra weight of the trailer may strain the engine on hot days and on long or steep upgrades.

If the temperature gauge indicates overheating, turn off the air conditioner, drive safely to the side of the road, park off the right-of-way and wait for engine to cool. Refer to Overheating (page 7-12).

Parking

Always make sure the tires of the trailer and the tow vehicle are blocked while parked.

Apply the parking brake firmly and put the transaxle in P.

Towing

Avoid parking on an incline, but if you must, follow these instructions:

1. Depress and hold down the brake pedal.
2. Have a helper put wheel blocks against the downhill side of all vehicle and trailer tires.
3. Then release the brake pedal slowly until the blocks bear the load.
 - If the grade is downhill, turn the steering wheel so that the front of the front tires face the curb.
 - If it is uphill, face the rear of the front tires against the curb.
4. Firmly apply the parking brake.
5. Shift the transaxle into P, and stop the engine.

To restart after parking on an incline:

1. With the transaxle in P, start the engine. (Be sure to depress and hold the brake pedal.)
2. Shift into gear.
3. Release the parking brake (also the foot brake) and pull away from the wheel blocks. Stop; apply the parking brake and shift into P.
4. Have a helper retrieve the wheel blocks.

Fuel consumption

Trailer towing causes higher fuel consumption.

Maintenance

If you tow a trailer frequently, have your vehicle serviced as shown in Scheduled Maintenance (page 8-3).

Explanation of instruments and controls.

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Starting and Driving

Ignition Switch

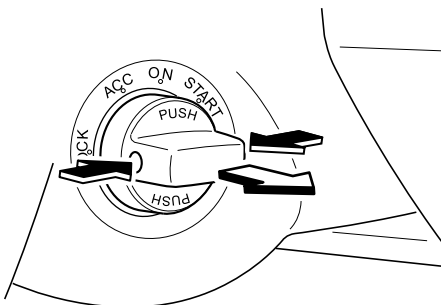
(With advanced key)

NOTE

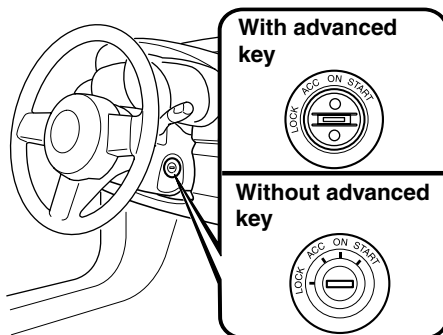
When starting the engine using the advanced key, refer to Starting the Engine (page 3-10).

When starting the engine with the auxiliary key, perform the following procedure.

1. Remove the auxiliary key from the advanced key (page 3-16).
2. Make sure the start knob is in LOCK position.
3. Remove the start knob by pulling it outward while pressing the buttons on both the left and right sides.



▼ Ignition Switch Positions



LOCK

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

WARNING

Remove the key only when the vehicle is parked:

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

Before leaving the driver's seat, always set the parking brake and make sure the shift lever is in P:
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.

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 5-36).

NOTE

When the ignition switch is turned to the ON position, the sound of the fuel pump motor operating near the fuel tank can be heard. This does not indicate an abnormality.

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 5-36).

▼ Ignition Key Reminder

If the ignition switch is in the LOCK or ACC position with the key inserted, a continuous beep sound will be heard when the driver's door is opened.

Starting the Engine**NOTE**

Engine-starting is controlled by the spark ignition system. This system meets all Canadian Interference-Causing Equipment Standard requirements regulating the impulse electrical field strength of radio noise.

1. Occupants should fasten their seat belts.
2. Make sure the parking brake is on.
3. Depress the brake pedal.
4. 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.

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.

Starting and Driving

NOTE

- In extremely cold weather, below -18°C (0°F), or after the vehicle has not been driven in several days, let the engine warm up without operating the accelerator.
- Whether the engine is cold or warm, it 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

Do not coast with the engine stalled or turned off, find a safe place to stop:
Casting with the engine 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.

Shift to a lower gear when going down steep hills:
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.

⚠ WARNING

Dry brakes that have become wet by driving very slowly and applying the brakes lightly until brake performance is normal:

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.

▼ **Parking Brake**

⚠ WARNING

Before leaving the driver's seat, always set the parking brake and make sure the shift lever is in P:
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.

⚠ CAUTION

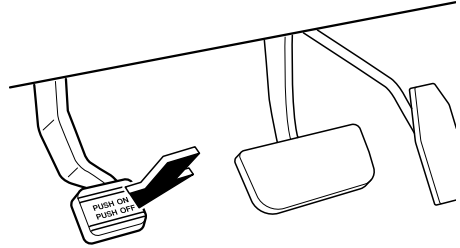
Driving with the parking brake on will cause excessive wear of the brake linings or pads.

NOTE

For parking in snow, refer to Winter Driving (page 4-8) regarding parking brake use.

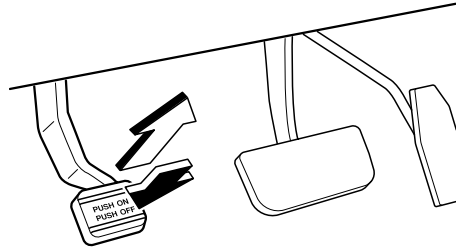
Setting the parking brake

Depress the brake pedal, then depress the parking brake pedal fully.



Releasing the parking brake

Depress the brake pedal, then depress the parking brake pedal until it releases. Gradually let up on the parking brake pedal.



NOTE

Release the parking brake once before trying to reapply it.

Starting and Driving

▼ Brake System Warning Light



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

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.

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 8-22).
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 out have your brake system inspected as soon as possible by an Authorized Mazda Dealer.

NOTE

Having to add brake fluid is sometimes an indicator of leakage. Consult an Authorized Mazda Dealer as soon as possible even if the brake light is no longer illuminated.

WARNING

Do not drive with the brake system warning light illuminated, and contact an Authorized Mazda Dealer to have the brakes inspected as soon as possible:

Driving with the brake system warning light illuminated 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 illuminated, after checking that the parking brake is fully released, have the brakes inspected immediately.

▼ Parking Brake Reminder

If the parking brake has not been completely released and the vehicle is driven at about 5 km/h (3 mph) or faster, a continuous beep sound will be heard to notify the driver that the parking brake has not been released.

Starting and Driving

▼ Anti-Lock Brake System (ABS)

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

Do not rely on ABS as a substitute for safe driving:

The ABS cannot compensate for unsafe and reckless driving, excessive speed, tailgating (following another vehicle too closely), driving on ice and snow, and hydroplaning (reduced tire friction and road contact because of water on the road surface). You can still have an accident.

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.
- The sound of the ABS operating may be heard when starting the engine or immediately after starting the vehicle. However, it does not indicate a malfunction.

▼ ABS Warning Light



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

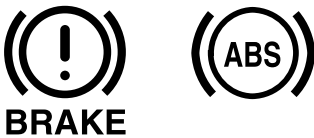
If the ABS warning light stays on while you're driving, the ABS control unit has detected a system malfunction. If this occurs, your brakes will function normally as if the vehicle had no ABS. Should this happen, consult an Authorized Mazda Dealer as soon as possible.

Starting and Driving

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.

▼ 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 and the ABS warning light on at the same time. The problem is likely to be an electronic brake force distribution system.

 WARNING

Do not drive with both the ABS warning light and brake warning light illuminated, have the vehicle towed to an Authorized Mazda Dealer to have the brakes inspected as soon as possible:
Driving when the brake system warning light and ABS warning light are illuminated at the same time is dangerous.
When both lights are illuminated, the rear wheels could lock more quickly in an emergency stop than under normal circumstances.

▼ Brake Assist

During emergency braking situations when it is necessary to depress the brake pedal with greater force, the brake assist system provides braking assistance, thus enhancing braking performance.

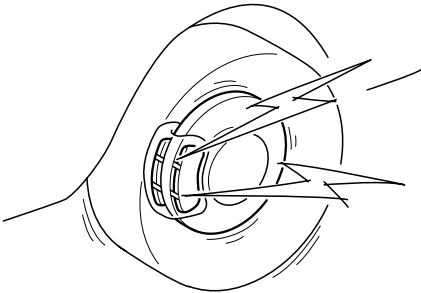
When the brake pedal is depressed hard or depressed more quickly, the brakes apply more firmly.

NOTE

- When the brake pedal is depressed hard or depressed more quickly, the pedal will feel softer but the brakes will apply more firmly. This is a normal effect of the brake assist operation and does not indicate an abnormality.
- When the brake pedal is depressed hard or depressed more quickly, a clicking noise from the brake booster may be heard. This is a normal effect of the brake assist and does not indicate an abnormality.
- The brake assist equipment does not supersede the functionality of the vehicle's main braking system.

▼ 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.



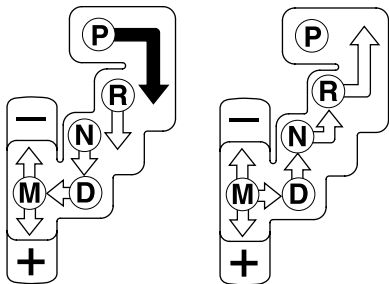
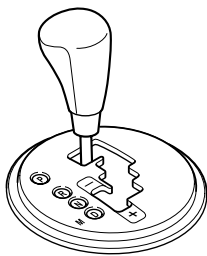
When you hear this noise, consult an Authorized Mazda Dealer as soon as possible.



WARNING

***Do not drive 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.***

Automatic Transaxle Controls



Various Lockouts:



Indicates that you must depress the brake pedal to shift (The ignition switch must be in the ACC or ON position).



Indicates the shift lever can be shifted freely into any position.

▼ Transaxle Ranges

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

P (Park)

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



WARNING

***Always set the shift lever to P AND set the parking brake:
Only 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.***



CAUTION

- Shifting into P, N 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 to or from R, except under rare circumstances as explained in Rocking the Vehicle (page 4-8).

Starting and Driving

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

If the engine is running faster than idle, do not shift from N or P into a driving gear:

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.

Do not shift into N when driving the vehicle:

Shifting into N while driving is dangerous. Engine braking cannot be applied when decelerating which could lead to an accident or serious injury.



CAUTION

Do not shift into N when driving the vehicle. Doing so can cause transaxle damage.

D (Drive)

D is the normal driving position. From a stop, the transaxle will automatically shift through a 6-gear sequence.

M (Manual)

M is the manual shift mode position. Gears can be shifted up or down by operating the shift lever. Refer to Manual Shift Mode (page 5-12).

▼ Active Adaptive Shift (AAS)

Active Adaptive Shift (AAS) automatically controls the transaxle shift point best suited to road conditions and driver input to optimize engine performance and improve drive comfort. When cornering the vehicle, AAS mode will hold the transaxle in the gear the vehicle was in before entering the curve, allowing the vehicle to be accelerated from the same gear after exiting the curve. If the driver accelerates rapidly, or accelerates and decelerates rapidly by operating the accelerator and brake pedal for a certain period of time while the selector lever is in the D position, AAS mode could activate. When this occurs, AAS mode will maintain the transaxle in the optimum gear and the driver may sense that the transaxle is not shifting, however this does not indicate an abnormality.

▼ Shift-Lock System

The shift-lock system 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. Move the shift lever.

Starting and Driving

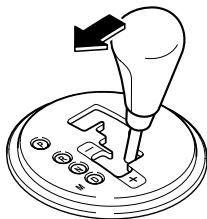
NOTE

- When the ignition switch is in the LOCK position, the shift lever 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.**
- **(With Advanced Key)**
The ignition switch cannot be turned from the ACC position to the LOCK position when the shift lever is not in P.

▼ Manual Shift Mode

This mode gives you the feel of driving a manual transaxle vehicle by operating the shift lever and allows you to control engine rpm and torque to the front wheels much like a manual transaxle when more control is desired.

To change to manual shift mode, shift the lever from D to M.



To return to automatic shift mode, shift the lever from M to D.

NOTE

If you change to manual shift mode when the vehicle is stopped, the gear will shift to M1.

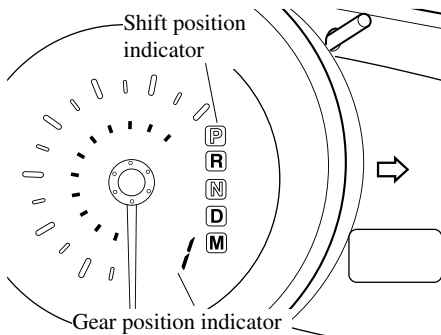
Indicators

Shift position indicator

In manual shift mode, the “M” of the shift position indicator in the instrument panel illuminates.

Gear position indicator

The numeral for the selected gear illuminates.



Starting and Driving

NOTE

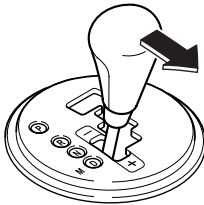
- If the gears cannot be shifted down when driving at higher speeds, the gear position indicator will flash twice to signal that the gears cannot be shifted down.
- If the automatic transaxle fluid (ATF) temperature becomes too high, there is the possibility that the transaxle will switch to automatic shift mode, canceling manual shift mode and turning off the gear position indicator illumination. This is a normal function to protect the AT. After the ATF temperature has decreased, the gear position indicator illumination turns back on and driving in manual shift mode is restored.

Shifting

Manually Shifting up

(M1→M2→M3→M4→M5→M6)

To shift up to a higher gear, tap the shift lever back (+) once.



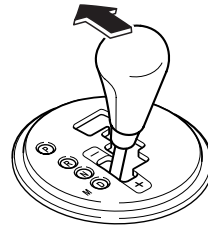
NOTE

- When driving slowly, the gears may not shift up depending on vehicle speed.
- In manual shift mode, gears do not shift up automatically. Don't run the engine with the tachometer needle in the RED ZONE. If the tachometer needle enters the RED ZONE, you may feel engine-braking because the fuel delivery will be stopped to protect the engine. However, this does not indicate an abnormality.
- When depressing the accelerator fully, the transaxle will shift to a lower gear, depending on vehicle speed.

Manually Shifting down

(M6→M5→M4→M3→M2→M1)

To shift down to a lower gear, tap the shift lever forward (–) once.



Starting and Driving



WARNING

Do not use engine braking on slippery road surfaces or at high speeds: Shifting down while driving on wet, snowy, or frozen roads, or while driving at high speeds causes sudden engine braking, which 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.

NOTE

- When driving at high speeds, the gear may not shift down depending on vehicle speed.
- During deceleration, the gear may automatically shift down depending on vehicle speed.
- When depressing the accelerator fully, the transaxle will shift to a lower gear, depending on vehicle speed.

Second gear fixed mode

When the shift lever is tapped back (+) while the vehicle is stopped, the transaxle is set in the second gear fixed mode. The gear is fixed in second while in this mode for easier starting and driving on slippery roads. If the shift lever is tapped back (+) or forward (–) while in the second gear fixed mode, the mode will be canceled.

Shifting specification

Shifting up

If the vehicle speed is lower than the speed specified for each gear, the gear cannot be shifted up to a higher gear.

Gear	Vehicle speed
M1→M2	You can shift up to M2 whether the vehicle is stopped or moving.
M2→M3	9 km/h (6 mph)
M3→M4	26 km/h (16 mph)
M4→M5	36 km/h (22 mph)
M5→M6	53 km/h (33 mph)

Shifting down

If the vehicle speed is higher than the speed specified for each gear, the gear cannot be shifted down to a lower gear.

Gear	Vehicle speed
M6→M5	230 km/h (143 mph)
M5→M4	182 km/h (113 mph)
M4→M3	135 km/h (83 mph)
M3→M2	86 km/h (53 mph)
M2→M1	44 km/h (27 mph)

During deceleration, the gears shift down automatically when speed is reduced to the following:

Gear	Vehicle speed
M6→M5	52 km/h (32 mph)
M5→M4	34 km/h (21 mph)
M4→M3	25 km/h (15 mph)
M3 or M2→M1	8 km/h (5 mph)

NOTE

The gear does not shift down to M1 automatically while in the second gear fixed mode.

Starting and Driving

If the vehicle is kicked down at the following speeds or lower, the gears shift down automatically:

Gear	Vehicle speed
M6→M5	220 km/h (136 mph)
M5→M4	50 km/h (31 mph)
M4→M3	30 km/h (18 mph)
M3 or M2→M1	8 km/h (5 mph)

Recommendations for shifting

Upshifting

For normal acceleration and cruising, we recommend these shift points.

Gear	Vehicle speed
M1 to M2	24 km/h (15 mph)
M2 to M3	40 km/h (25 mph)
M3 to M4	65 km/h (40 mph)
M4 to M5	73 km/h (45 mph)
M5 to M6	80 km/h (50 mph)

Downshifting

When you must slow down in heavy traffic or on a steep **upgrade**, downshift before the engine starts to overwork. This gives better acceleration when you need more speed.

On a steep **downgrade**, downshifting helps maintain safe speed and prolongs brake life.

▼ 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 M1, depending on the load weight and grade steepness.
3. Release the brake pedal while gradually accelerating.

Descending steep grades

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

Starting and Driving

Power Steering

Power steering is only operable when the engine is running. If the engine is off or if the power steering system is inoperable, 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 5 seconds with the engine running. This could damage the power steering system.

All-Wheel Drive (AWD) Operation *

AWD provides excellent driveability on snow-covered and ice-packed roads, sand and mud, as well as on steep slopes and other slippery surfaces.

▼ AWD Driving



WARNING

Avoid sharp turns, excessive speed and abrupt maneuvers when driving this vehicles:

Vehicles with a higher center of gravity such as utility and AWD vehicles handle differently than vehicles with a lower center of gravity. Utility and AWD vehicles are not designed for cornering at speeds as high as passenger cars any more than low-slung sport cars are designed to perform satisfactorily under off-road conditions. Failure to drive cautiously could result in an increase risk of loss of vehicle control, vehicle roll-over, personal injury and death.

Utility vehicles have a significantly higher rollover rate than other types of vehicles.

▼ AWD Warning Light

4WD

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

Thereafter, the warning light will illuminate or flash under the following conditions:

- Illuminates when there is an abnormality with the AWD system.
- Flashes when the differential oil temperature is abnormally high.
- Flashes when there are continually large differences between front and rear wheel rotation, such as when trying to pull away from an icy surface.

If the AWD warning light illuminates:

If the AWD warning light illuminates, contact an Authorized Mazda Dealer.

If the AWD warning light flashes:

Park the vehicle in a safe place. After a few moments; if the warning light stops flashing, you can resume driving. If the light does not stop flashing, contact an Authorized Mazda Dealer.

**WARNING**

Never spin a wheel that is off the ground:

Spinning a wheel that is off the ground as a result of the vehicle being stuck or in a ditch is dangerous. The drive assembly could be seriously damaged which could lead to an accident or could even lead to overheating, oil leakage, and a fire.

▼ Tires and Tire Chains

The condition of the tires plays a large role in the performance of the vehicle. Moreover, to prevent adverse effects to the drive assembly, please note the following:

Tires

- When replacing tires, always replace all front and rear tires at the same time.
- All tires must be of the same size, manufacture, brand and tread pattern. Pay particular attention when equipping snow or other types of winter tires.
- Do not mix tread-worn tires with normal tires.
- Inspect tire inflation pressures at the specified periods and adjust to the specified pressures.

NOTE

Check the tire inflation pressure label attached to driver's door frame for the correct tire inflation pressure.

Starting and Driving

- Make sure to equip the vehicle with genuine wheels of the specified size, on all wheels. With AWD, the system is calibrated for all four wheels being of the same dimensions.

Tire chains

- Install tire chains to the front tires.
- Do not drive the vehicle faster than 30 km/h (19 mph) with the tire chains installed.
- Do not drive the vehicle with tire chains on road conditions other than snow or ice.

▼ Towing

If the vehicle requires towing, have it towed with all four wheels completely off the ground (page 7-19).

Cruise Control

With cruise control, you can set and automatically maintain any speed of more than about 30 km/h (19 mph).

WARNING

Do not use the cruise control under the following conditions:

Using the cruise control under the following conditions is dangerous and could result in loss of vehicle control.

- ***Hilly terrain***
- ***Steep inclines***
- ***Heavy or unsteady traffic***
- ***Slippery or winding roads***
- ***Similar restrictions that require inconsistent speed***

▼ Cruise Main Indicator Light (Amber)/Cruise Set Indicator Light (Green)

CRUISE

The indicator light has two colors.

Cruise Main Indicator Light (Amber)

The indicator light illuminates amber when the ON/OFF switch is pressed and the cruise control system is activated.

Cruise Set Indicator Light (Green)

The indicator light illuminates green when a cruising speed has been set.

Starting and Driving

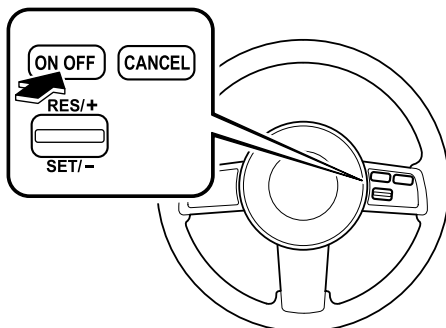
▼ Activation/Deactivation

To activate the system, press the ON/OFF switch.

The cruise main indicator light illuminates.

To deactivate the system, press the switch again.

The cruise main indicator light turns off.



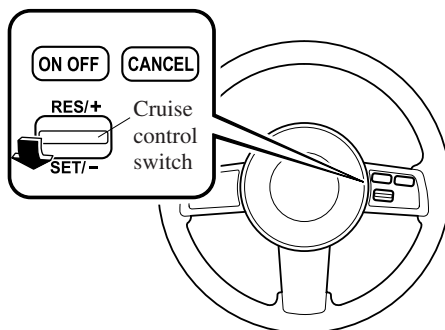
WARNING

Keep the ON/OFF switch off when cruise control is not in use:
Leaving the ON/OFF 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.

▼ To Set Speed

1. Activate the cruise control system by pressing the ON/OFF switch.
2. Accelerate to the desired speed, which must be more than 30 km/h (19 mph).

3. Press down the cruise control switch and release it at the speed you want. Release the accelerator at the same time.



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

NOTE

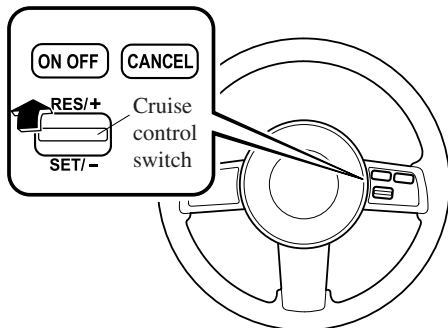
- The SET function can't be activated until about 2 seconds after the ON/OFF switch has been engaged.
- On a steep grade, the vehicle may momentarily slow down going up or speed up while going down.

Starting and Driving

▼ To Increase Cruising Speed

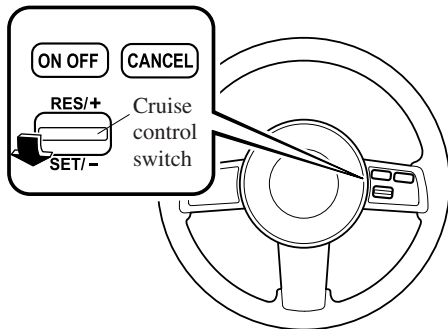
Follow either of these procedures.

- Pull up the cruise control switch and hold it. Your vehicle will accelerate. Release the switch at the speed you want.



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 cruise control switch. Multiple taps will increase your vehicle speed 1.6 km/h (1 mph) for each tap.

- Accelerate to the desired speed. press down the cruise control switch and release it immediately.

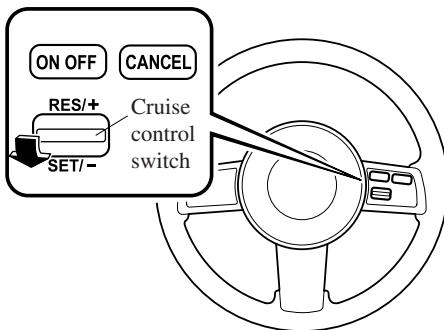


NOTE

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

Press down the cruise control switch and hold it. The vehicle will gradually slow. Release the switch at the speed you want.

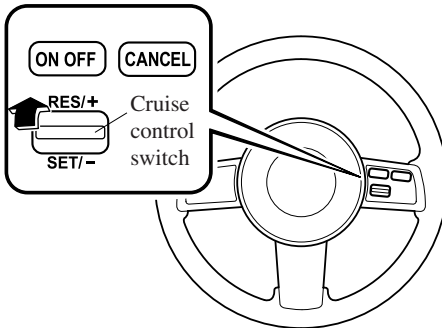


Your vehicle has a tap-down feature that allows you to decrease your current speed in decrements of 1.6 km/h (1 mph) by a momentary tap of the cruise control switch. Multiple taps will decrease your vehicle speed 1.6 km/h (1 mph) for each tap.

▼ To Resume Cruising Speed at More Than 30 km/h (19 mph)

If some other method besides the ON/OFF switch was used to cancel cruising speed and the system is still activated, the most recent set speed will automatically resume when the cruise control switch pulled up.

If vehicle speed is below 30 km/h (19 mph), increase the vehicle speed up to 30 km/h (19 mph) and pull up the cruise control switch.

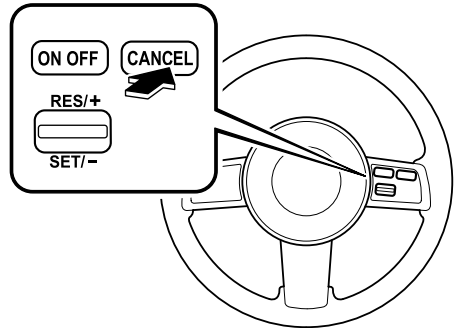


▼ To Cancel

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

- Press the ON/OFF switch.
- Slightly depress the brake pedal.

- Press the CANCEL button.



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 30 km/h (19 mph).

Starting and Driving

Traction Control System (TCS)

The Traction Control System (TCS) enhances traction and safety by controlling engine torque. When the TCS detects driving wheel slippage, it lowers engine torque to prevent loss of traction.

This means that on a slick surface, the engine adjusts automatically to provide optimum power to the drive wheels without causing them to spin and lose traction.



WARNING

Do not rely on the traction control system as a substitute for safe driving:
The traction control system (TCS) 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.

Use snow tires or tire chains and drive at reduced speeds when roads are covered with ice and/or snow:
Driving without proper traction devices on snow and/or ice-covered roads is dangerous. The traction control system (TCS) alone cannot provide adequate traction and you could still have an accident.

▼ TCS/DSC Indicator Light



This indicator light stays on for a few seconds when the ignition switch is turned to the ON position. If the TCS or DSC is operating, the indicator light flashes.

If the light stays on, the TCS or DSC may have a malfunction and they may not operate correctly. Take your vehicle to an Authorized Mazda Dealer.

NOTE

- In addition to the indicator light flashing, a slight lugging sound will come from the engine. This indicates that the TCS is operating properly.
- On slippery surfaces, such as fresh snow, it will be impossible to achieve high rpm when the TCS is on.

▼TCS OFF Indicator Light

TCS OFF

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

It also illuminates when the TCS OFF switch is pressed and TCS is switched off. Refer to TCS OFF Switch on page 5-24. If the light remain illuminated when the TCS is not switched off, take your vehicle to an Authorized Mazda Dealer. The dynamic stability control may have a malfunction.

NOTE

If the battery is disconnected or a fuse is replaced, the DSC will be inoperable. When this happens, the TCS OFF indicator light flashes and the TCS/DSC indicator light illuminates.

To reactivate the DSC operable, do the following procedure with the battery connected.

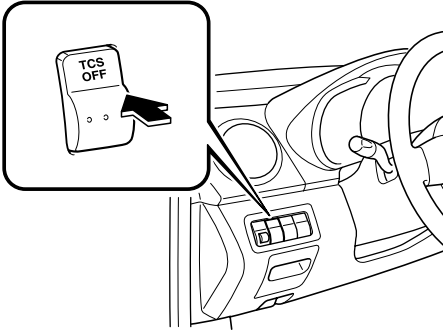
1. Turn the ignition switch to the ON position.
2. Turn the steering clockwise fully, then turn it counterclockwise fully.
3. Make sure the TCS OFF indicator turns off.
4. Turn the ignition switch to the OFF position, then turn it to the ON position again.
5. Make sure the TCS/DSC indicator light turns off.

If the TCS/DSC indicator light and the TCS OFF indicator light remain illuminated even after turning the ignition switch to the ON position, consult an Authorized Mazda Dealer.

Starting and Driving

▼TCS OFF Switch

If the vehicle speed is less than 30 km/h (18 mph), press the TCS OFF switch to turn off the TCS. The TCS OFF indicator light will illuminate.



Press the switch again to turn the TCS back on. The TCS OFF indicator light will go out. If the vehicle speed is more than 30 km/h (18 mph), the TCS OFF indicator light will not illuminate even if the switch is pressed.

NOTE

- If the TCS is OFF when the vehicle speed is more than 30 km/h (18 mph), it automatically activates and the TCS OFF indicator light will turn off.
- If the TCS OFF switch is pressed and held for 10 seconds or more, the TCS OFF switch malfunction detection function operates and the TCS system activates automatically. The TCS OFF indicator light turns off while the TCS system is operative.

NOTE

- When TCS is on and you attempt to free the vehicle when it is stuck, or drive it out of freshly fallen snow, the TCS will activate. Depressing the accelerator will not increase engine power and freeing the vehicle may be difficult. When this happens, turn off the TCS.
- If the TCS is off when the engine is turned off, it automatically activates when the ignition switch is turned on.
- Leaving the TCS on will provide the best traction.

Dynamic Stability Control (DSC)

The Dynamic Stability Control (DSC) automatically controls braking and engine torque in conjunction with systems such as ABS and TCS to help control side slip when driving on slippery surfaces, or during sudden or evasive maneuvering, enhancing vehicle safety.

Refer to ABS (page 5-7) and TCS (page 5-22).

DSC operation is possible at speeds greater than 20 km/h (12 mph).

WARNING

Do not rely on the dynamic stability control as a substitute for safe driving:
The dynamic stability control (DSC) 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.

CAUTION

- The DSC may not operate correctly unless the following are observed:
 - Use tires of the correct size specified for your Mazda on all four wheels.
 - Use tires of the same manufacturer, brand and tread pattern on all four wheels.
 - Do not mix worn tires.
- The DSC may not operate correctly when tire chains are used or a temporary spare tire is installed because the tire diameter changes.

▼ TCS/DSC Indicator Light



This indicator light stays on for a few seconds when the ignition switch is turned to the ON position. If the TCS or DSC is operating, the indicator light flashes.

If the light stays on, the TCS or DSC may have a malfunction and they may not operate correctly. Take your vehicle to an Authorized Mazda Dealer.

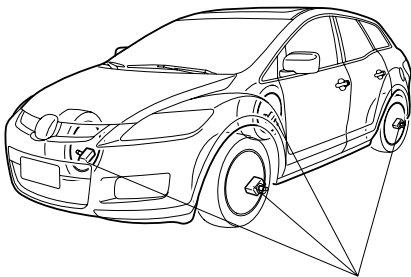
Starting and Driving

Tire Pressure Monitoring System*

The tire pressure monitoring system (TPMS) monitors the pressure for each tire.

If tire pressure is too low in one or more tires, the system will inform the driver via the warning light in the instrument panel and by the warning beep sound.

The tire pressure sensors installed on each wheel send tire pressure data by radio signal to the receiver unit in the vehicle.



Tire pressure sensors

NOTE

When the ambient temperature is low due to seasonal changes, tire temperatures are also lower. If the tire temperature lowers, the air pressure lowers as well, and the TPMS warning light illuminates more frequently. Inspect the tire pressure daily **before** driving, and check the tire pressures monthly with a tire pressure gauge. When checking the tire pressures, use of a digital tire pressure gauge is recommended.

TPMS does not alleviate your need to check the pressure and condition of all four tires before you drive each day.

CAUTION

- Each tire, including the spare (if provided), should be checked monthly when cold and inflated to the inflation pressure recommended by the vehicle manufacturer on the vehicle placard or tire inflation pressure label. (If your vehicle has tires of a different size than the size indicated on the vehicle placard or tire inflation pressure label, you should determine the proper tire inflation pressure for those tires.) As an added safety feature, your vehicle has been equipped with a tire pressure monitoring system (TPMS) that illuminates a low tire pressure telltale when one or more of your tires is significantly under-inflated. Accordingly, when the low tire pressure telltale illuminates, you should stop and check your tires as soon as possible, and inflate them to the proper pressure. Driving on a significantly under-inflated tire causes the tire to overheat and can lead to tire failure. Under-inflation also reduces fuel efficiency and tire tread life, and may affect the vehicle's handling and stopping ability. Please note that the TPMS is not a substitute for proper tire maintenance, and it is the driver's responsibility to maintain correct tire pressure, even if under-inflation has not reached the level to trigger illumination of the TPMS low tire pressure telltale.

Starting and Driving

CAUTION

- To avoid false readings, the system samples for a little while before indicating a problem. As a result it will not instantaneously register a rapid tire deflation or blow out.

NOTE

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.

▼ Tire Pressure Monitoring System Warning Light



This warning light illuminates for a few seconds when the ignition switch is turned to the ON position.

Thereafter, the warning light illuminates when tire pressure is too low in one or more tires, and flashes when there is a system malfunction.

WARNING

If the tire pressure monitoring system warning light illuminates or flashes, or the tire pressure warning beep sound is heard, decrease vehicle speed immediately and avoid sudden maneuvering and braking:

If the tire pressure monitoring system warning light illuminates or flashes, or the tire pressure warning beep sound is heard, it is dangerous to drive the vehicle at high speeds, or perform sudden maneuvering or braking. Vehicle drivability could worsen and result in an accident.

Have the system and tires checked or perform the appropriate repair as soon as possible by an Authorized Mazda Dealer.

Do not ignore the TPMS Warning Light:

Ignoring the TPMS warning light is dangerous, even if you know why it is illuminated. Have the problem taken care of as soon as possible before it develops into a more serious situation that could lead to tire failure and a dangerous accident.

Warning light illuminates/Warning beep sounds

When the warning light illuminates, and the warning beep sound is heard (about 3 seconds), tire pressure is too low in one or more tires.

Adjust the tire pressure to the correct tire pressure. Refer to the specification charts (page 10-6).

Starting and Driving

 CAUTION

When replacing/repairing the tires or wheels or both, have the work done by an Authorized Mazda Dealer, or the tire pressure sensors may be damaged.

NOTE

- Perform tire pressure adjustment when the tires are cold. Tire pressure will vary according to the tire temperature, therefore let the vehicle stand for 1 hour or only drive it 1.6 km (1 mile) or less before adjusting the tire pressures. When pressure is adjusted on hot tires to the cold inflation pressure, the TPMS warning light/beep may turn on after the tires cool and pressure drops below specification. Also, an illuminated TPMS warning light, resulting from the tire air pressure dropping due to cold ambient temperature, may go out if the ambient temperature rises. In this case, it will also be necessary to adjust the tire air pressures. If the TPMS warning light illuminates due to a drop in tire air pressure, make sure to check and adjust the tire air pressures.
- After adjusting the tire air pressures, it may require some time for the TPMS warning light to go out. If the TPMS warning light remains illuminated, drive the vehicle at a speed of at least 25 km/h (16 mph) for 10 minutes, and then verify that it goes out.

If the warning light illuminates again even after the tire pressures are adjusted, there may be a tire puncture. Replace the punctured tire with the temporary spare tire (page 7-6).

NOTE

A tire pressure sensor is not installed to the temporary spare tire. The warning light will flash continuously while the temporary spare tire is being used.

Warning light flashes

When the warning light flashes, there may be a system malfunction. Consult an Authorized Mazda Dealer.

▼ System Error Activation

When the TPMS warning light flashes, there may be a system malfunction. Consult an Authorized Mazda Dealer. A system error activation may occur in the following cases:

- When there is equipment or a device near the vehicle using the same radio frequency as that of the tire pressure sensors.
- When using the following devices in the vehicle that may cause radio interference with the receiver unit.
 - A digital device such as a personal computer.
 - A current converter device such as a DC-AC converter.
- When excess snow or ice adheres to the vehicle, especially around the wheels.
- When the tire pressure sensor batteries are exhausted.

Starting and Driving

- When using a wheel with no tire pressure sensor installed.
- When using tires with steel wire reinforcement in the side walls.
- When using tire chains.

▼ Tires and Wheels



CAUTION

When inspecting or adjusting the tire air pressures, do not apply excessive force to the stem part of the wheel unit. The stem part could be damaged.

Changing tires and wheels

The following procedure allows the TPMS to recognize a tire pressure sensor's unique ID signal code whenever tires or wheels are changed, such as changing to and from winter tires.

NOTE

Each tire pressure sensor has a unique ID signal code. The signal code must be registered with the TPMS before it can work. The easiest way to do it is to have an Authorized Mazda Dealer change your tire and complete ID signal code registration.

When having tires changed at an Authorized Mazda Dealer

Tire pressure sensor ID signal code registration is completed when an Authorized Mazda Dealer changes your vehicle's tires.

When changing tires yourself

If you or someone else changes tires, you or someone else can also undertake the steps for the TPMS to complete the ID signal code registration.

1. After tires have been changed, turn the ignition switch to the ON position, then turn it back to the ACC or LOCK position.
2. Wait for about 15 minutes.
3. After about 15 minutes, drive the vehicle at a speed of at least 25 km/h (16 mph) for 10 minutes and the tire pressure sensor ID signal code will be registered automatically.

NOTE

If the vehicle is driven within about 15 minutes of changing tires, the tire pressure monitoring system warning light will flash because the sensor ID signal code would not have been registered. If this happens, park the vehicle for about 15 minutes, after which the sensor ID signal code will register upon driving the vehicle for 10 minutes.

Starting and Driving

Replacing tires and wheels

 CAUTION

- When replacing/repairing the tires or wheels or both, have the work done by an Authorized Mazda Dealer, or the tire pressure sensors may be damaged.
- The wheels equipped on your Mazda are specially designed for installation of the tire pressure sensors. Do not use non-genuine wheels, otherwise it may not be possible to install the tire pressure sensors.

Be sure to have the tire pressure sensors installed whenever tires or wheels are replaced.

When having a tire or wheel or both replaced, the following types of tire pressure sensor installation are possible.

- The tire pressure sensor is removed from the old wheel and installed to the new one.
- The same tire pressure sensor is used with the same wheel. Only the tire is replaced.
- A new tire pressure sensor is installed to a new wheel.

NOTE

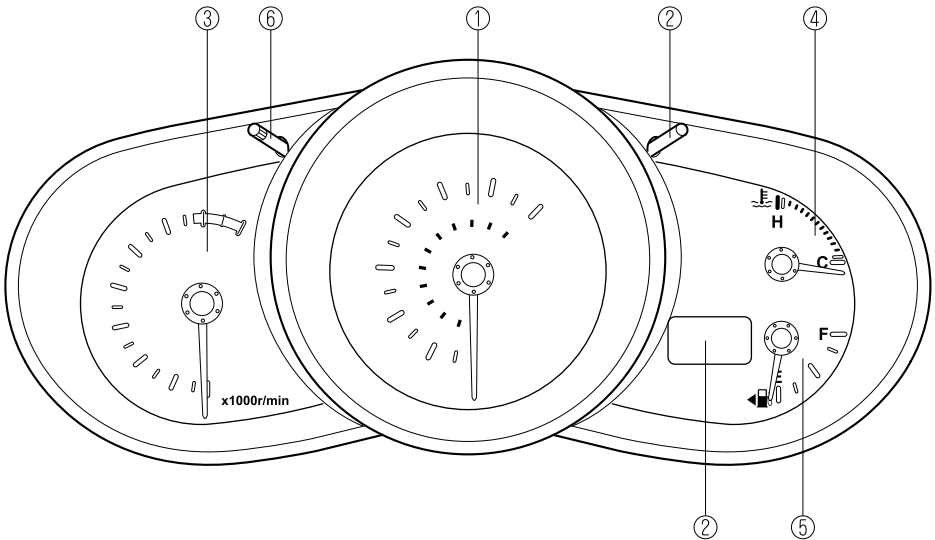
- The tire pressure sensor ID signal code must be registered when a new tire pressure sensor is purchased. For purchase of a tire pressure sensor and registration of the tire pressure sensor ID signal code, consult an Authorized Mazda Dealer.
- When reinstalling a previously removed tire pressure sensor to a wheel, replace the grommet for the tire pressure sensor.

Instrument Cluster and Indicators

Meters and Gauges

(Black-out meter)

When the ignition switch is in the ON position, the dashboard gauges illuminate.



① Speedometer	page 5-32
② Odometer, Trip Meter and Trip Meter Selector	page 5-32
③ Tachometer	page 5-34
④ Engine Coolant Temperature Gauge	page 5-34
⑤ Fuel Gauge	page 5-34
⑥ Dashboard Illumination	page 5-35

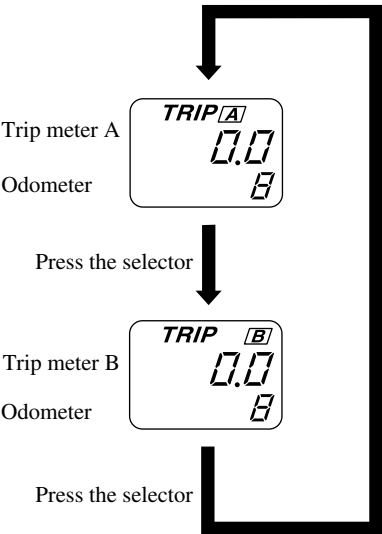
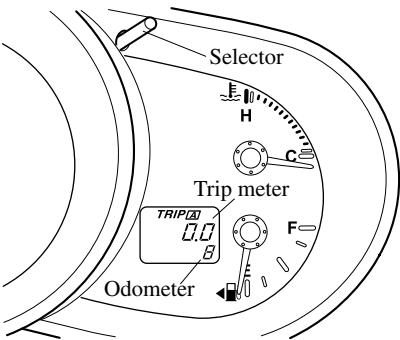
Instrument Cluster and Indicators

▼Speedometer

The speedometer indicates the speed of the vehicle.

▼Odometer, Trip Meter and Trip Meter Selector

The display mode can be changed between trip meter A and trip meter B by pressing the selector while one of them is displayed. The selected mode will be displayed.



Instrument Cluster and Indicators

NOTE

- **(Standard meter)**

The odometer and trip meter can be displayed as follows even when the ignition switch is in the ACC or LOCK position.

- Displays for 10 minutes after the ignition switch is turned to the ACC or LOCK position from the ON position.
- Displays for 10 minutes after the driver's door is opened.

- **(Black-out meter)**

When the ignition switch is in the ACC or LOCK position, the odometer or trip meters cannot be displayed, however, pressing the selector button can inadvertently switch the trip meters or reset them during an approximate ten-minute period in the following cases:

- After the ignition switch is turned to the ACC or LOCK position from the ON position.
- After the driver's door is opened.

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 trip 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 to compute fuel consumption.

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).

Odometer

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

Trip meter

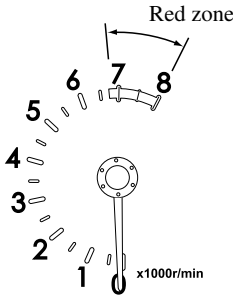
The trip meter can record the total distance of two trips. One is recorded in trip meter A, and the other is recorded in trip meter B.

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

Instrument Cluster and Indicators

▼Tachometer

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

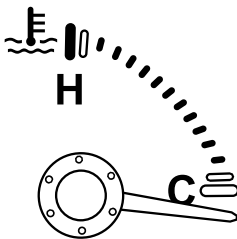


! CAUTION

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

▼Engine Coolant Temperature Gauge

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



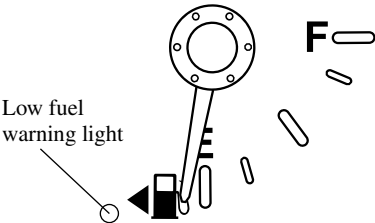
If the needle is near H, it indicates overheating.

! CAUTION

Driving with an overheated engine can cause serious engine damage (page 7-12).

▼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.



NOTE

The direction of the arrow (➔) shown next to the low fuel warning light indicates that the fuel-filler lid is on the left side of the vehicle.

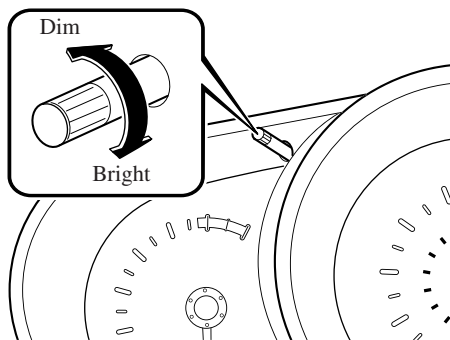
Instrument Cluster and Indicators

▼ Dashboard Illumination

Rotate the knob to adjust the brightness of the instrument cluster and other illuminations in the dashboard.

NOTE

- The brightness of dashboard illuminations can be adjusted when the headlight switch is in the ● or ≡D position.
- When the dashboard illumination brightness cannot be adjusted any more, a beep sound will be heard.
- **(Black-out meter)**
The brightness of the instrument cluster illumination can be adjusted when the headlight switch is in any position.



Canceling the illumination dimmer (Black-out meter and dashboard illuminations)

When the headlight switch is in the ● or ≡D position, the illumination of the instrument cluster and the information display dims.

When driving on snowy or foggy roads, or in other situations when the instrument cluster or information display's visibility is reduced due to glare from surrounding brightness, cancel the illumination dimmer and increase the illumination intensity.

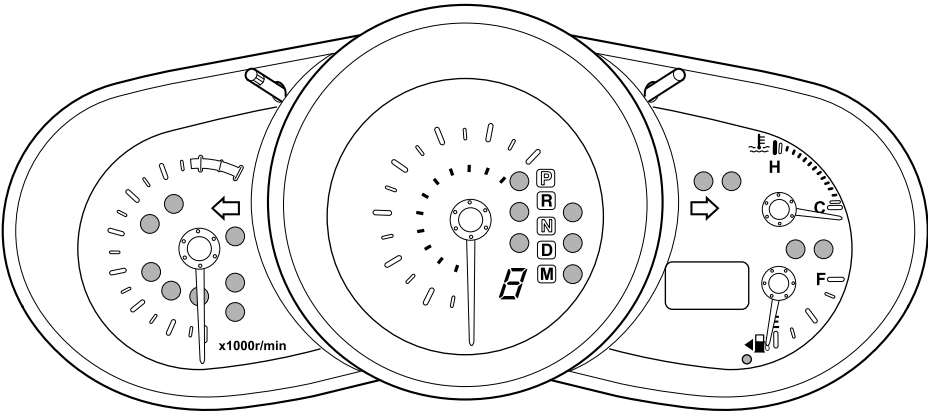
To cancel the illumination dimmer, press the dashboard illumination knob.

NOTE

If the dashboard illumination knob is kept at the illumination dimmer cancel position, the instrument cluster and the information display will not dim when the headlight switch is turned to the ● or ≡D position again.

Warning/Indicator Lights and Beep Sounds

Warning/Indicator Lights



Warning/Indicator lights will appear in any of the highlighted areas

Signal	Warning/Indicator Lights	Page
 BRAKE	Brake System Warning Light	5-38
	Charging System Warning Light	5-39
	Engine Oil Pressure Warning Light	5-40
	Check Engine Light	5-40
	ABS Warning Light	5-38
	Air Bag/Front Seat Belt Pretensioner System Warning Light	5-41
	Low Fuel Warning Light	5-41

Warning/Indicator Lights and Beep Sounds

Signal	Warning/Indicator Lights	Page
	Seat Belt Warning Light/Beep	5-41
	Door-Ajar Warning Light	5-43
	Low Washer Fluid Level Warning Light	5-43
AT	Automatic Transaxle Warning Light	5-43
4WD	AWD Warning Light	5-43
	Tire Pressure Monitoring System Warning Light	5-44
KEY	KEY Warning Light (Red)/KEY Indicator Light (Green)	5-45
	Security Indicator Light	5-47
	Headlight High-Beam Indicator Light	5-47
<i>PRNDM</i>	Shift Position Indicator Light	5-47
	TCS/DSC Indicator Light	5-48
TCS OFF	TCS OFF Indicator Light	5-48
CRUISE	Cruise Main Indicator Light (Amber)/Cruise Set Indicator Light (Green)	5-49
	Light-On Indicator Light	5-49
	Turn Signal/Hazard Warning Indicator Lights	5-49

Warning/Indicator Lights and Beep Sounds

▼ Brake System Warning Light



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

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.

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 8-22).
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 out have your brake system inspected as soon as possible by an Authorized Mazda Dealer.

NOTE

Having to add brake fluid is sometimes an indicator of leakage. Consult an Authorized Mazda Dealer as soon as possible even if the brake light is no longer illuminated.

WARNING

Do not drive with the brake system warning light illuminated, and contact an Authorized Mazda Dealer to have the brakes inspected as soon as possible:

Driving with the brake system warning light illuminated 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 illuminated, after checking that the parking brake is fully released, have the brakes inspected immediately.

▼ ABS Warning Light



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

Warning/Indicator Lights and Beep Sounds

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.

▼ 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 and the ABS warning light on at the same time. The problem is likely to be an electronic brake force distribution system.



WARNING

Do not drive with both the ABS warning light and brake warning light illuminated, have the vehicle towed to an Authorized Mazda Dealer to have the brakes inspected as soon as possible:

Driving when the brake system warning light and ABS warning light are illuminated at the same time is dangerous.

When both lights are illuminated, the rear wheels could lock more quickly in an emergency stop than under normal circumstances.

▼ Charging System Warning Light



This warning light illuminates when the ignition switch is turned to the ON position and turns off when the engine is started.

If the warning light illuminates while driving, it indicates a malfunction of the alternator or of the charging system. Drive to the side of the road and park off the right-of-way. Consult an Authorized Mazda Dealer.

Warning/Indicator Lights and Beep Sounds



CAUTION

Don't continue driving when the charging system warning light is illuminated because the engine could stop unexpectedly.

▼ Engine Oil Pressure Warning Light



This warning light illuminates when the ignition switch is turned to the ON position and turns off when the engine is started.

This warning light indicates low engine oil pressure.

If the light illuminates while driving:

1. Drive to the side of the road and park off the right-of-way on level ground.
2. Turn off the engine and wait 5 minutes for the oil to drain back into the oil pan.
3. Inspect the engine oil level (page 8-19). If it's low, add oil.
4. Check the warning light.

If the light remains illuminated even after you add oil, have your vehicle towed to an Authorized Mazda Dealer.



CAUTION

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

▼ 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.
- The fuel-filler cap is missing or not tightened securely.

If the check engine light remains on or flashes continuously, do not drive at high speeds and consult an Authorized Mazda Dealer as soon as possible.

Warning/Indicator Lights and Beep Sounds

▼ Air Bag/Front Seat Belt Pretensioner System Warning Light



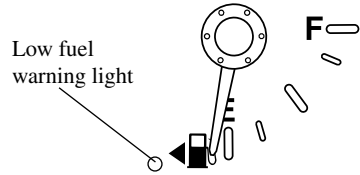
If the air bag/front seat belt pretensioner system is normal, the warning light illuminates when the ignition switch is turned to the ON position or after the engine is cranked. For a specified period of time it goes out.

A system malfunction is indicated when the warning light constantly flashes, constantly illuminates or doesn't illuminate at all when the ignition switch is turned to the ON position. If any of these occur, consult an Authorized Mazda Dealer as soon as possible. The system may not work in an accident.

WARNING

Never tamper with the air bag/pretensioner systems and always have an Authorized Mazda Dealer perform all servicing and repairs:
Self-servicing or tampering with the systems is dangerous. An air bag/pretensioner could accidentally activate or become disabled causing serious injury or death.

▼ Low Fuel Warning Light



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

▼ Seat Belt Warning Light/Beep



The seat belt warning light illuminates and a beep sound will be heard if the driver's seat belt is not fastened when the ignition switch is turned to the ON position.

Conditions of operation

Condition	Result
The driver's seat belt is not fastened when the ignition switch is turned to the ON position.	The warning light flashes and a beep sound will be heard for about 6 seconds.
The driver's seat belt is fastened while the warning light and the beep sound are activated.	The warning light turns off and the beep sound stops.
The driver's seat belt is fastened before the ignition switch is turned to the ON position.	The warning light will not illuminate and the beep sound will not be heard.

Warning/Indicator Lights and Beep Sounds

Belt minder

NOTE

The belt minder can be deactivated. Consult an Authorized Mazda Dealer to deactivate and restore the seat belt minder.

Driver seated/Front passenger not seated

The belt minder is a supplemental warning to the seat belt warning function. If the driver's seat belt is not fastened when the ignition switch is turned to the ON position, the warning light/beep operates to give you further reminders according to the chart below.

Condition	Vehicle speed			
	Between 0 — 20 km/h (0 — 12 mph)		20 km/h (12 mph) or more	
Seat belt	○	×	○	×
Indicator		⬮		⬮
Beep				♪

- : Fastened
- ×
- ⬮ : Illuminated
- ⬮ : Flashing
- ♪ : Beep

Once the beep sound is heard, it continues sounding even if the vehicle speed lowers to 20 km/h (12 mph) or less until the seatbelt is fastened or the beep sound period has passed.

Driver seated/Front passenger seated

The seat belt warning function reminds the front passenger to fasten the seat belt according to the chart below.

Condition	Vehicle speed							
	Between 0 — 20 km/h (0 — 12 mph)				20 km/h (12 mph) or more			
Seat belt (Driver)	○	○	×	×	○	○	×	×
Seat belt (Passenger)	○	×	○	×	○	×	○	×
Indicator			⬮	⬮	⬮	⬮	⬮	
Beep						♪	♪	♪

- : Fastened
- ×
- ⬮ : Illuminated
- ⬮ : Flashing
- ♪ : Beep

Placing heavy items on the front passenger seat may cause the front passenger seat belt warning function to operate depending on the weight of the item.

Once the beep sound is heard, it continues sounding even if the vehicle speed lowers to 20 km/h (12 mph) or less until the seatbelt is fastened or the beep sound period has passed.

Warning/Indicator Lights and Beep Sounds

NOTE

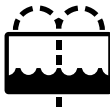
- To allow the front passenger seat weight sensor to function properly, do not place and sit on an additional seat cushion on the front passenger seat. The sensor may not function properly because the additional seat cushion could cause sensor interference.
- When a small child sits on the front passenger seat, it is possible that neither the warning light nor the warning beep operate.

▼ Door-Ajar Warning Light



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

▼ Low Washer Fluid Level Warning Light*



This warning light indicates that little washer fluid remains. Add fluid (page 8-26).

▼ Automatic Transaxle Warning Light

AT

This warning light stays on for a few seconds when the ignition switch is turned to the ON position. The light illuminates when the transaxle has a problem.

⚠ CAUTION

If the automatic transaxle warning light illuminates, 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.

▼ AWD Warning Light (AWD)

4WD

This warning light stays on for a few seconds when the ignition switch is turned to the ON position. Thereafter, the warning light will illuminate or flash under the following conditions:

- Illuminates when there is an abnormality with the AWD system.

Warning/Indicator Lights and Beep Sounds

- Flashes when the differential oil temperature is abnormally high.
- Flashes when there are continually large differences between front and rear wheel rotation, such as when trying to pull away from an icy surface.

If the AWD warning light illuminates:

If the AWD warning light illuminates, contact an Authorized Mazda Dealer.

If the AWD warning light flashes:

Park the vehicle in a safe place. After a few moments; if the warning light stops flashing, you can resume driving. If the light does not stop flashing, contact an Authorized Mazda Dealer.



WARNING

Never spin a wheel that is off the ground:

Spinning a wheel that is off the ground as a result of the vehicle being stuck or in a ditch is dangerous. The drive assembly could be seriously damaged which could lead to an accident or could even lead to overheating, oil leakage, and a fire.

▼ Tire Pressure Monitoring System (TPMS) Warning Light *



This warning light illuminates for a few seconds when the ignition switch is turned to the ON position.

Thereafter, the warning light illuminates when tire pressure is too low in one or more tires, and flashes when there is a system malfunction.



WARNING

If the tire pressure monitoring system warning light illuminates or flashes, or the tire pressure warning beep sound is heard, decrease vehicle speed immediately and avoid sudden maneuvering and braking:

If the tire pressure monitoring system warning light illuminates or flashes, or the tire pressure warning beep sound is heard, it is dangerous to drive the vehicle at high speeds, or perform sudden maneuvering or braking. Vehicle drivability could worsen and result in an accident.

Have the system and tires checked or perform the appropriate repair as soon as possible by an Authorized Mazda Dealer.

Do not ignore the TPMS Warning Light:

Ignoring the TPMS warning light is dangerous, even if you know why it is illuminated. Have the problem taken care of as soon as possible before it develops into a more serious situation that could lead to tire failure and a dangerous accident.

Warning light illuminates/Warning beep sounds

When the warning light illuminates, and the warning beep sound is heard (about 3 seconds), tire pressure is too low in one or more tires.

Warning/Indicator Lights and Beep Sounds

Adjust the tire pressure to the correct tire pressure. Refer to the specification charts (page 10-6).

CAUTION

When replacing/repairing the tires or wheels or both, have the work done by an Authorized Mazda Dealer, or the tire pressure sensors may be damaged.

NOTE

- Perform tire pressure adjustment when the tires are cold. Tire pressure will vary according to the tire temperature, therefore let the vehicle stand for 1 hour or only drive it 1.6 km (1 mile) or less before adjusting the tire pressures. When pressure is adjusted on hot tires to the cold inflation pressure, the TPMS warning light/beep may turn on after the tires cool and pressure drops below specification. Also, an illuminated TPMS warning light, resulting from the tire air pressure dropping due to cold ambient temperature rises. In this case, it will also be necessary to adjust the tire air pressures. If the TPMS warning light illuminates due to a drop in tire air pressure, make sure to check and adjust the tire air pressures.

NOTE

- After adjusting the tire air pressures, it may require some time for the TPMS warning light to go out. If the TPMS warning light remains illuminated, drive the vehicle at a speed of at least 25 km/h (16 mph) for 10 minutes, and then verify that it goes out.

If the warning light illuminates again even after the tire pressures are adjusted, there may be a tire puncture. Replace the punctured tire with the temporary spare tire (page 7-6).

NOTE

A tire pressure sensor is not installed to the temporary spare tire. The warning light will flash continuously while the temporary spare tire is being used.

Warning light flashes

When the warning light flashes, there may be a system malfunction. Consult an Authorized Mazda Dealer.

▼ KEY Warning Light (Red)/KEY Indicator Light (Green) (with Advanced Key)

KEY

This indicator has two colors.

Warning/Indicator Lights and Beep Sounds

KEY Warning Light (Red)

When illuminated

- When the ignition switch is turned to the ON position, it illuminates momentarily and then goes out.
- If any malfunction occurs in the advanced keyless system, it illuminates continuously.



Do not drive the vehicle with the KEY warning light illuminated:
If the KEY warning light remains illuminated, do not continue to drive using the advanced key system. Park the vehicle in a safe place and use the auxiliary key to continue driving the vehicle. Have the vehicle inspected at an Authorized Mazda Dealer as soon as possible.

When flashing

- Under the following conditions, the KEY warning light (red) flashes to inform the driver that the start knob will not rotate to the ACC position even if it is pushed in from the LOCK position.
 - The advanced key battery is dead.
 - The advanced key is not within operational range.
 - The advanced key is placed in areas where it is difficult for the system to detect the signal (page 3-7).
 - A key from another manufacturer similar to the advanced key is in the operational range.

- Under the following conditions, the KEY warning light (red) will flash continuously when the start knob has not been returned to the LOCK position to notify the driver that the advanced key has been removed from the vehicle. It will stop flashing when the advanced key is back inside the vehicle.
 - The start knob has not been returned to the LOCK position, the driver's door is open, and the advanced key is removed from the vehicle.
 - The start knob has not been returned to the LOCK position and all the doors are closed after removing the advanced key from the vehicle.

NOTE

The flashing KEY warning light (red) and the beep sound operate simultaneously (page 3-21).

KEY Indicator Light (Green)

When illuminated

When the start knob is pushed in from the LOCK position, the system confirms that the correct advanced key is inside the vehicle, the KEY indicator light (green) illuminates, and the start knob can be turned to the ACC position (page 3-10).

When flashing

When the advanced key battery power is low, the KEY indicator light flashes for 30 seconds after the start knob is turned from the ON position to the ACC or LOCK position. Replace with a new battery before the advanced key becomes unusable (page 3-6).

Warning/Indicator Lights and Beep Sounds

NOTE

The advanced key can be set so that the KEY indicator light (green) does not flash even if the battery power is low. Refer to Setting Change (Function Customization)(page 3-20).

▼ Security Indicator Light



This indicator light starts flashing every 2 seconds when the ignition switch is turned from the ON to the ACC position and the immobilizer system is armed.

The light stops flashing when the ignition switch is turned to the ON position with the correct ignition key.

At this time, the immobilizer system is disarmed and the light illuminates for about 3 seconds and then goes out.

If the engine doesn't start with the correct ignition key, and the security indicator light keeps illuminating or flashing, the system may have a malfunction. Consult an Authorized Mazda Dealer.

▼ 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.

▼ Shift Position Indicator Light

This indicates the selected shift position when the ignition switch is in the ON position.



Gear position indicator

Warning/Indicator Lights and Beep Sounds

Gear position indicator

When the shift lever is in the D or M position, the numeral for the selected gear displays.

▼TCS/DSC Indicator Light



This indicator light stays on for a few seconds when the ignition switch is turned to the ON position. If the TCS or DSC is operating, the indicator light flashes.

If the light stays on, the TCS, DSC or the brake assist system may have a malfunction and they may not operate correctly. Take your vehicle to an Authorized Mazda Dealer.

▼TCS OFF Indicator Light

**TCS
OFF**

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

It also illuminates when the TCS OFF switch is pressed and TCS is switched off. Refer to TCS OFF Switch on page 5-24. If the light remain illuminated when the TCS is not switched off, take your vehicle to an Authorized Mazda Dealer. The dynamic stability control may have a malfunction.

Warning/Indicator Lights and Beep Sounds

NOTE

If the battery is disconnected or a fuse is replaced, the DSC will be inoperable. When this happens, the TCS OFF indicator light flashes and the TCS/DSC indicator light illuminates.

To reactivate the DSC operable, do the following procedure with the battery connected.

1. Turn the ignition switch to the ON position.
2. Turn the steering clockwise fully, then turn it counterclockwise fully.
3. Make sure the TCS OFF indicator turns off.
4. Turn the ignition switch to the OFF position, then turn it to the ON position again.
5. Make sure the TCS/DSC indicator light turns off.

If the TCS/DSC indicator light and the TCS OFF indicator light remain illuminated even after turning the ignition switch to the ON position, consult an Authorized Mazda Dealer.

▼ Cruise Main Indicator Light (Amber)/Cruise Set Indicator Light (Green)

CRUISE

The indicator light has two colors.

Cruise Main Indicator Light (Amber)

The indicator light illuminates amber when the ON/OFF switch is pressed and the cruise control system is activated.

Cruise Set Indicator Light (Green)

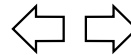
The indicator light illuminates green when a cruising speed has been set.

▼ Light-On Indicator Light



This indicator light comes on when the exterior lights and dashboard illumination are on.

▼ Turn-Signal/Hazard Warning Indicator Lights



When operating the turn signal lights, the left or right turn signal indicator light flashes to indicate which turn signal light is operating (page 5-55).

When operating the hazard warning lights, both turn signal indicator lights flash (page 5-59).

Warning/Indicator Lights and Beep Sounds

NOTE

If an indicator light remains illuminated (does not flash) or if it flashes abnormally, one of the turn signal bulbs may be burned out.

Beep Sounds

▼ Air Bag/Front Seat Belt Pretensioner System Warning Beep

If a malfunction is detected in both the air bag/front seat belt pretensioner system and the warning light, a warning beep sound will be heard for about 1 minute. After that, the one-minute beep will be repeated every 30 minutes.

Have your vehicle inspected at an Authorized Mazda Dealer as soon as possible.

 WARNING

Do not drive the vehicle with the air bag/front seat belt pretensioner system warning beep sounding:
Driving the vehicle with the air bag/front seat belt pretensioner system warning beep sounding is dangerous. In a collision, the air bags and the front seat belt pretensioner system will not deploy and this could result in death or serious injury. Contact an Authorized Mazda Dealer to have the vehicle inspected as soon as possible.

Warning/Indicator Lights and Beep Sounds

▼ Seat Belt Warning Beep

If the driver's seat belt is not fastened when the ignition switch is turned to the ON position, a beep sound will be heard for about 6 seconds.

If the driver's seat belt is not fastened and the vehicle is driven at a speed faster than about 20 km/h (12 mph), a beep sound will be heard again for a specified period of time.

Refer to Seat Belt Warning Light/Beep on page 5-41.

▼ Ignition Key Reminder

If the ignition switch is in the LOCK or ACC position with the key inserted, a continuous beep sound will be heard when the driver's door is opened.

▼ Lights-On Reminder

If lights are on and the key is removed from the ignition switch, a continuous beep sound will be heard when the driver's door is opened.

NOTE

When the advanced keyless function is used and the start knob is in the ACC position, the “Start Knob Not in LOCK Warning Beep” (page 3-17) overrides the lights-on reminder.

▼ Parking Brake Reminder

If the parking brake has not been completely released and the vehicle is driven at about 5 km/h (3 mph) or faster, a continuous beep sound will be heard to notify the driver that the parking brake has not been released.

▼ Tire Inflation Pressure Warning Beep

The warning beep sound will be heard for about 3 seconds when there is any abnormality in tire inflation pressures (page 5-26).

▼ Advanced Keyless Warning

Warning indicators for the advanced key, such as “the advanced key removed from vehicle warning”, use a beep sound and warning/indicator lights in the instrument cluster.

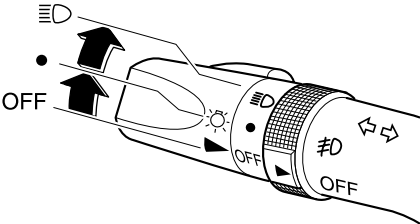
Refer to Warning and Beep Sounds on page 3-17.

Switches and Controls

Lighting Control

▼ Headlights

Type A (Without AUTO position)



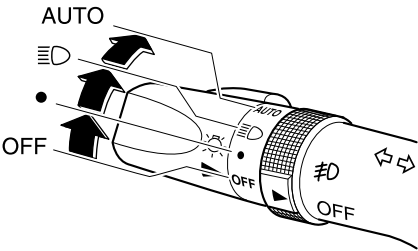
Turn the headlight switch to turn the headlights, other exterior lights and dashboard illumination on or off.

Switch Position	OFF	●	☰
Headlights	Off	Off	On
Taillights	Off	On	On
Parking lights			
License lights			
Side-marker lights			
Dash-board illumination			

NOTE

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

Type B (With AUTO position)



Turn the headlight switch to turn the headlights, other exterior lights and dashboard illumination on or off.

Switch Position	OFF	●	☰	AUTO
Headlights	Off	Off	On	Auto
Taillights	Off	On	On	
Parking lights				
License lights				
Side-marker lights				
Dash-board illumination				

NOTE

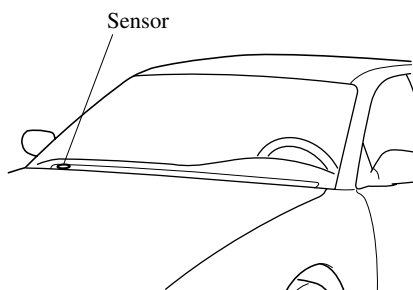
To prevent discharging the battery, don't leave the lights on while the engine is off unless safety requires them.

AUTO(Auto-light control)
When the headlight switch is in the AUTO position and the ignition switch is in the ON position, the light sensor senses the surrounding lightness or darkness and automatically turns on or off the headlights, other exterior lights and dashboard illumination (see chart above).

Switches and Controls

⚠ CAUTION

Do not shade the light sensor by adhering a sticker or a label on the windshield, or putting an object on it. Otherwise the light sensor will not operate correctly.



NOTE

- When the headlight switch is in the AUTO position and the ignition switch is turned to the ACC or LOCK position, the headlights, other exterior lights and dashboard illumination will turn off.
- The timing for turning on the headlights, other exterior lights and dashboard illumination can be delayed by adjusting the sensitivity of the light sensor. Consult an Authorized Mazda Dealer regarding sensor adjustment.

Xenon fusion headlight bulbs*

The low-beam bulbs of the headlights have xenon fusion bulbs that produce a bright white beam over a wide area.

⚠ WARNING

Do not replace the xenon fusion bulbs yourself:

Replacing the xenon fusion bulbs yourself is dangerous. Because the xenon fusion bulbs require high voltage, you could receive an electric shock if the bulbs are handled incorrectly. Consult an Authorized Mazda Dealer when the replacement is necessary.

NOTE

If the headlights flash, or the brightness weakens, the bulb-life may be depleted and a replacement is necessary. Consult an Authorized Mazda Dealer.

▼ Lights-On Reminder

If lights are on and the key is removed from the ignition switch, a continuous beep sound will be heard when the driver's door is opened.

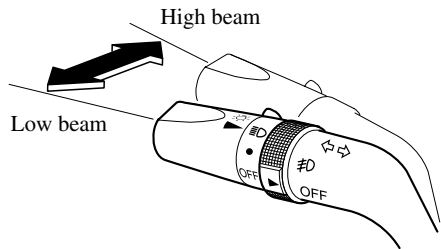
NOTE

When the advanced keyless function is used and the start knob is in the ACC position, the “Start Knob Not in LOCK Warning Beep” (page 3-17) overrides the lights-on reminder.

Switches and Controls

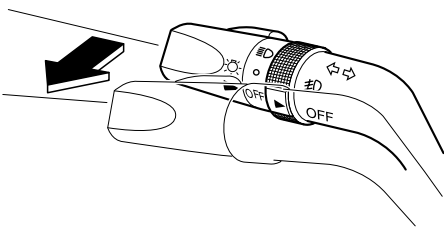
▼ Headlight High-Low Beam

Push the lever forward for high beam.
Pull back to original position for low beam.



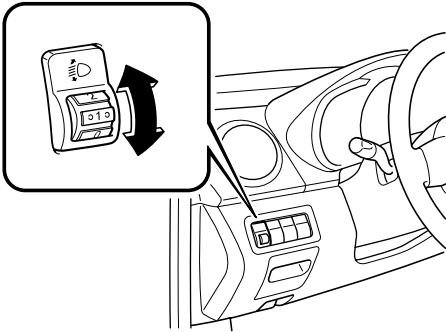
▼ Flashing the Headlights

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



▼ Headlight Leveling*

The number of riders and weight of cargo in the luggage compartment change the angle of the headlights.
The headlight leveling switch adjusts this angle.



Select the proper setting from the following chart.

Front seat		Rear seat	Load	Switch Position
Driver	Passenger			
×	—	—	—	0
×	×	—	—	0
×	×	×	—	1
×	×	×	×	2
×	—	—	×	3

×: Yes

—: No

▼ Daytime Running Lights (Canada)

In Canada, vehicles must be driven with the headlights on during daytime operation.

For that reason, the daytime running lights automatically turn on when the ignition switch is turned to the ON position.

NOTE

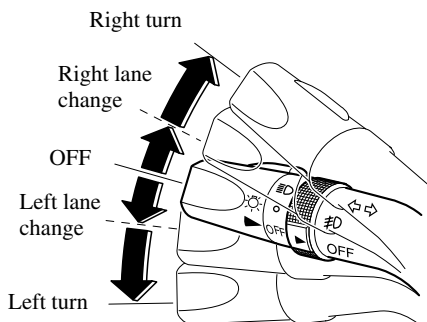
The Daytime Running Lights turn off when the parking brake is applied.

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.

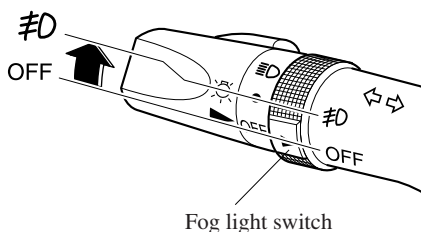
NOTE

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

Fog Lights*

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

To turn the front fog lights on, rotate the fog light switch to the $\#0$ position. The headlight switch must be in the $\equiv$ position to turn on the front fog lights.



To turn them off, rotate the fog light switch to the OFF position or turn the headlight switch to the $\bullet$ or OFF position.

NOTE

- The fog lights will turn off when the headlights are set at high beam.
- **(With auto-light control)**
If the headlight switch is in the AUTO position, the front fog lights can be turned on when the headlights, the exterior lights and dashboard illumination are on.

Switches and Controls

Windshield Wipers and Washer

The ignition switch must be in the ON position.



WARNING

Use only windshield washer fluid or plain water in the reservoir:

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.

Do not use the washer without first warming the windshield and never use plain tap water:

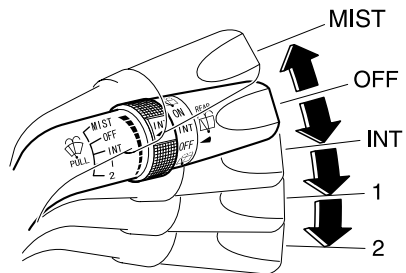
Using windshield washer fluid without anti-freeze protection in freezing temperatures is dangerous. The washer fluid could freeze on the windshield and block your vision. You could have an accident.

NOTE

Because heavy ice and snow can jam the wiper blades, the wiper motor is protected from motor breakdown, overheating and possible fire 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, and remove the snow and ice.

After 5 minutes, turn on the switch and the blades should operate normally. If they don't resume functioning, consult an Authorized Mazda Dealer as soon as possible. Drive to the side of the road and park off the right-of-way. Wait until the weather clears before trying to drive with the wipers inoperative.

▼ Windshield Wipers



Turn the wipers on by pulling the lever down.

MIST — Mist

INT — Intermittent

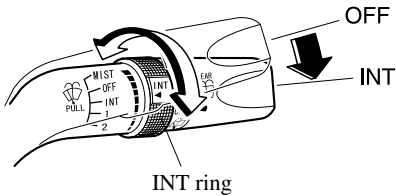
1 — Low speed

2 — High speed

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

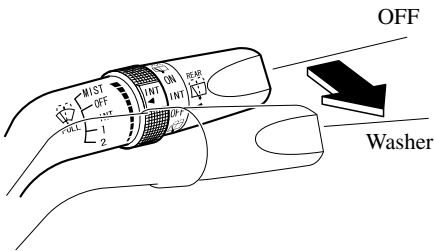
Variable-speed intermittent wipers

Set the lever to INT and choose the interval timing by rotating the ring.



▼ Windshield Washer

Pull the lever toward you and hold it to spray washer fluid.



NOTE

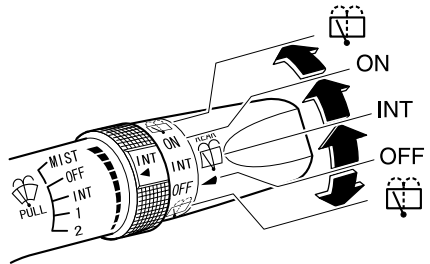
With the wiper lever in the OFF or INT position, the wipers will operate continuously until the lever is released.

If the washer doesn't work, inspect the fluid level (page 8-26). If it's OK, consult an Authorized Mazda Dealer.

Rear Window Wiper and Washer

The ignition switch must be in the ON position.

▼ Rear Window Wiper



Turn the wiper on by turning the rear wiper/washer switch.

ON — Normal

INT — Intermittent

▼ Rear Window Washer

To spray washer fluid, turn the rear wiper/washer switch to the  position. After the switch is released, the washer will stop.

If the washer doesn't work, inspect the fluid level (page 8-26). If it's OK and the washer still doesn't work, consult an Authorized Mazda Dealer.

Switches and Controls

Rear Window Defroster

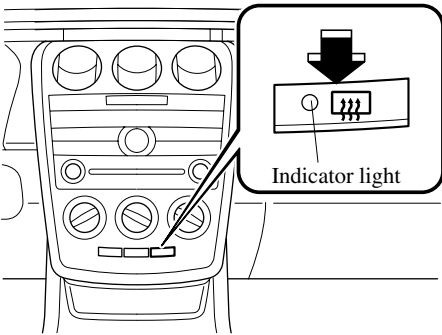
The rear window defroster clears frost, fog, and thin ice from the rear window.

The ignition switch must be in the ON position.

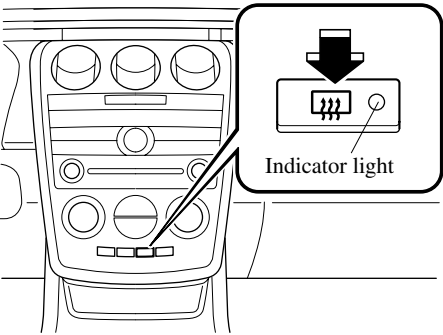
Press the switch to turn on the rear window defroster. The rear window defroster operates for about 15 minutes and turns off automatically. The indicator light illuminates during operation.

To turn off the rear window defroster before the 15 minutes has elapsed, press the switch again.

Manual Type Air Conditioning



Fully Automatic Type Air Conditioning



⚠ 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, remove it before using the defroster.

Switches and Controls

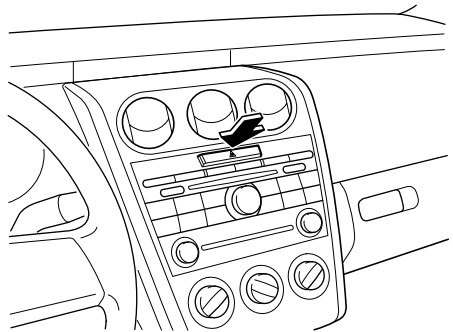
Horn

To sound the horn, press around the  mark on the steering wheel.

Hazard Warning Flasher

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 flasher and all four turn signals will flash.

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 air-conditioning and audio system.

Climate Control System	6-2
Operating Tips	6-2
Vent Operation	6-3
Types of the Climate Control System	6-5
Manual Type *	6-6
Fully Automatic Type *	6-11
Audio System	6-16
Antenna	6-16
Operating Tips for Audio System	6-16
Audio Set	6-27
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Interior Equipment	6-49
Sunvisors	6-49
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Information Display	6-52
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Bottle Holder	6-56
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Accessory Sockets	6-58

Climate Control System

Operating Tips

▼ Operating the Climate Control System

Operate the climate control system with the engine running.

NOTE
To prevent the battery from being discharged, do not leave the fan control dial on for a long period of time with the ignition switch in the ACC position when the engine is not 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 defog the windows.

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

NOTE
The air conditioner may be used along with the heater to dehumidify the air.

▼ Outside/Recirculated Air Position

Use the outside air position in normal conditions. The recirculated air position should be used only 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

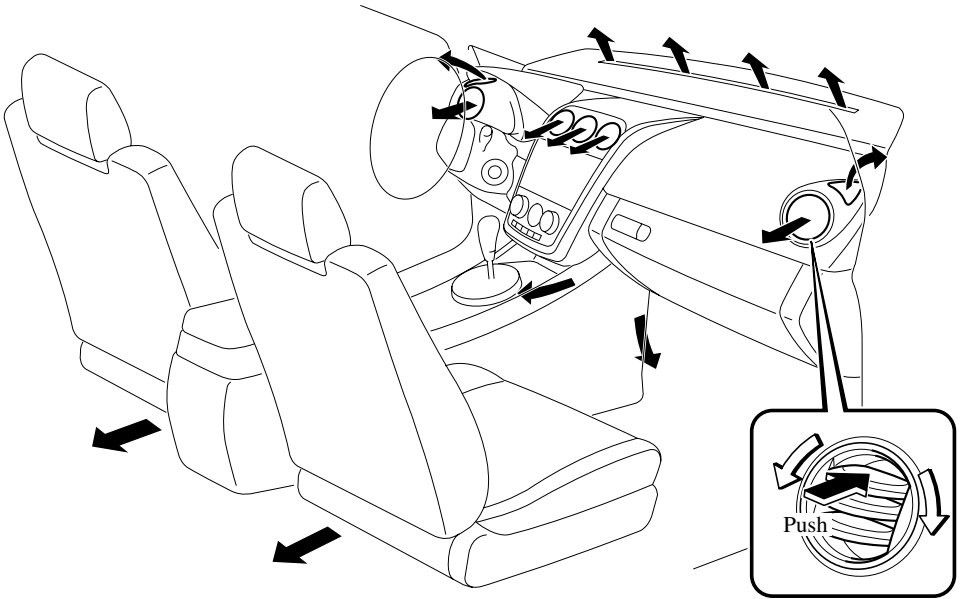
Run the air conditioner about 10 minutes at least once a month to keep internal parts lubricated.

▼ Check the Refrigerant before the 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 air conditioner is filled with HFC134a (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.

Vent Operation



▼ Adjusting the Vents

Directing airflow

You can direct air flow by rotating the vent.

Opening/closing vents

These vents can be opened and closed with wheel.

NOTE

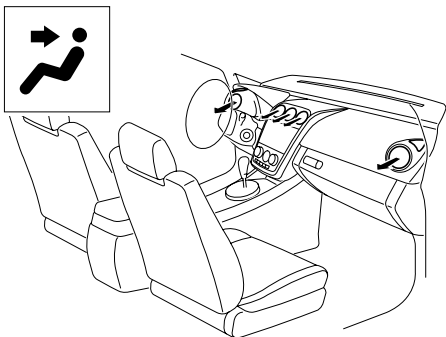
When using the air conditioner, mist may come out from the vents. This is not a sign of trouble but a result of humid air being suddenly cooled.

Interior Comfort

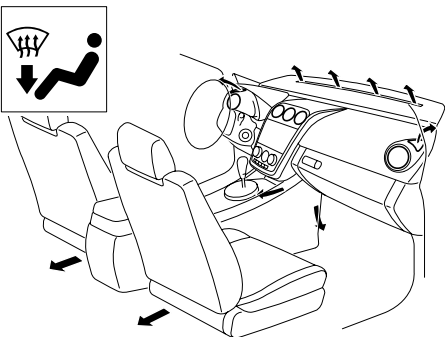
Climate Control System

▼ Selecting the Airflow Mode

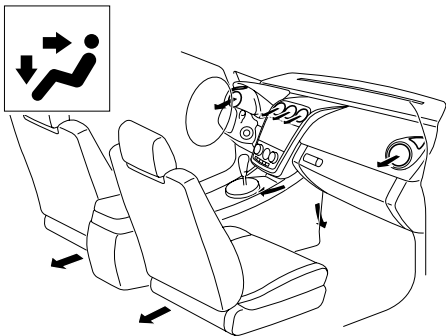
Dashboard Vents



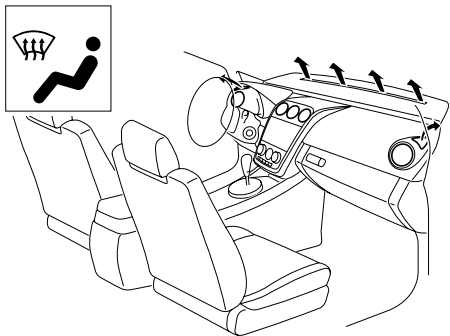
Defroster and Floor Vents



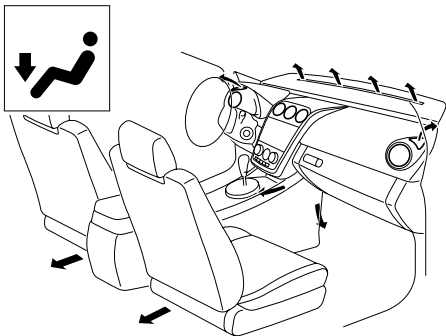
Dashboard and Floor Vents



Defroster Vents



Floor Vents

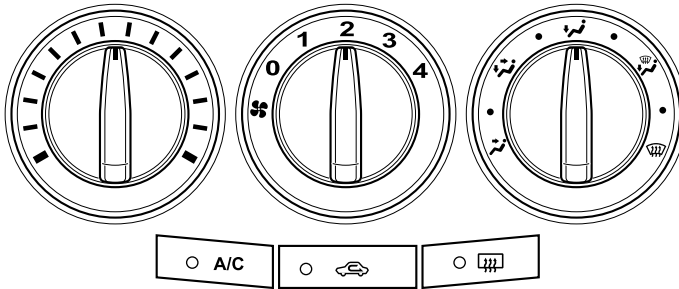


Climate Control System

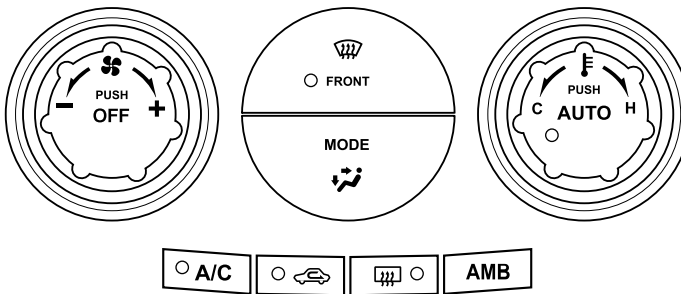
Types of the Climate Control System

Manual type and fully automatic type climate control systems are explained separately.
Check your vehicle's climate control type and read the appropriate pages.

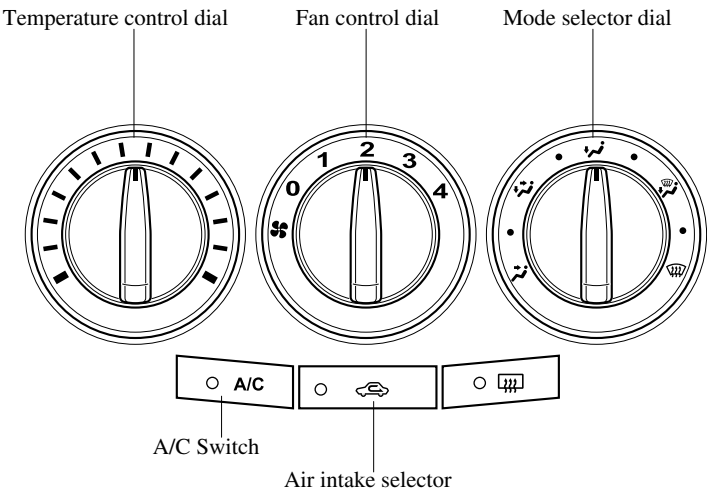
Manual Type page 6-6



Fully Automatic Type page 6-11

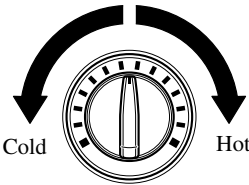


Manual Type*



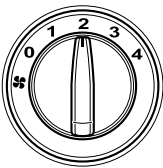
▼ Control Switches

Temperature control dial



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

Fan control dial

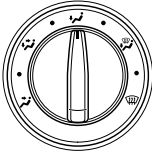


This dial allows variable fan speeds.

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

Climate Control System

Mode selector dial

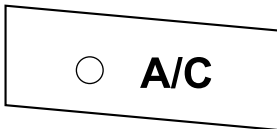


Turn the mode selector dial to select airflow mode (page 6-4).

NOTE

- If you want to slightly adjust the airflow amount, set the mode selector dial at ● .
- For example, when the mode selector dial is at the ● position between the and positions, airflow from the floor vent is less than that of the position.

A/C switch *



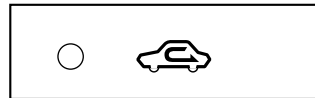
Push the A/C switch to turn the air conditioner on. The indicator light on the switch will illuminate when the fan control dial is set at position 1, 2, 3, or 4.

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



This switch controls the source of air entering the vehicle.

Press the switch to alternate between the outside air and recirculated air modes.

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

Outside air mode (Indicator light is off)

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

Recirculated air mode (Indicator light is on)

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

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

Climate Control System



WARNING

Do not use the recirculated air mode in cold or rainy weather:

Using the recirculated air mode in cold or rainy weather is dangerous as it will cause the windows to fog up. Your vision will be hampered, which could lead to a serious accident.

▼ 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

- 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).
- In the , , or  position, the air conditioner is automatically turned on (however, the indicator light does not illuminate) and the outside air mode is automatically selected to defrost the windshield. In the  or  position, the outside air mode cannot be changed to the recirculated air mode.

▼ Cooling (With Air Conditioner)*

1. Set the mode selector dial to the  position.
2. Set the temperature control dial to the cold position.
3. Set the fan control dial to the desired speed.
4. Turn on the air conditioner by pressing the A/C switch.
5. Adjust the fan control dial and temperature control dial to maintain maximum comfort.

Climate Control System

CAUTION

When using the air conditioner while driving up long hills or in heavy traffic, closely monitor the temperature gauge (page 5-34).

The air conditioner may cause engine overheating. If the gauge indicates overheating, turn the air conditioner off (page 7-12).

NOTE

- When maximum cooling is desired, set the temperature control dial to the extreme cold position and set the air intake selector to the recirculated air mode, then set the fan control dial to position 4.
- If warmer air is desired at floor 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).

▼ Ventilation

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

▼ 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.

WARNING

Do not defog the windshield using the  position with the temperature control set to the cold position:
Using the  position with the temperature control set to the cold position is dangerous as it will cause the outside of the windshield 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.

Climate Control System

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 air conditioner is automatically turned on (however, the indicator light does not illuminate) and the outside air mode is automatically selected to defrost the windshield. In the  or  position, the outside air mode cannot be changed to therecirculated air mode.

NOTE

One of the functions of the air conditioner is dehumidifying the air and, to use this function, the temperature does not have to be set to cold. Therefore, set the temperature control dial to the desired position (hot or cold) and turn on the air conditioner when you want to dehumidify the cabin air.

▼ Dehumidifying (With Air Conditioner)*

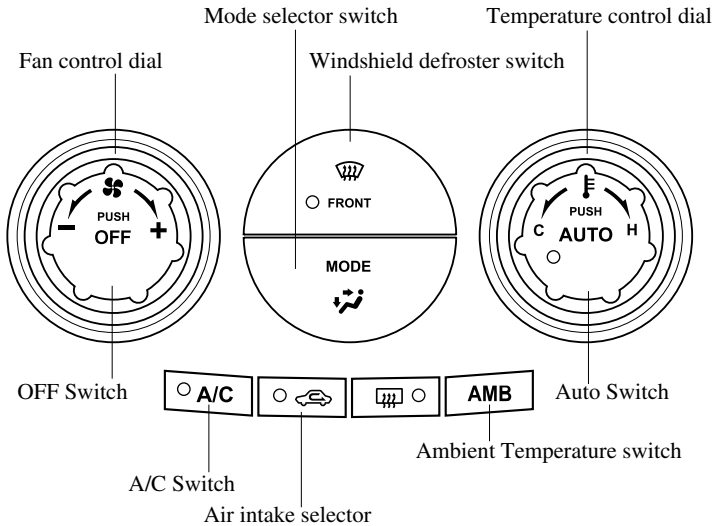
Operate the air conditioner in cool or cold weather to help defog the windshield and side windows.

1. Set the mode selector dial to the desired position.
2. Set the air intake selector to the outside air mode.
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 by pressing the A/C switch.

Climate Control System

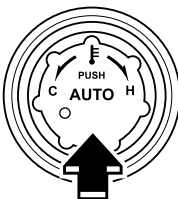
Fully Automatic Type*

Climate control information is displayed on the information display.



▼ Control Switches

AUTO switch



By pressing the AUTO switch the following functions will be automatically controlled in accordance with the set temperature:

- Airflow temperature
- Amount of airflow

- Selection of airflow mode
- Outside/Recirculated air selection
- Air conditioner operation

NOTE

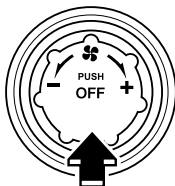
AUTO switch indicator light

- When on, it indicates AUTO operation, and the system will function automatically.
- When off, it indicates the operation of other switches such as the mode selector switch, fan control dial, A/C switch and windshield defroster switch. Other functions will continue to operate automatically.

Interior Comfort

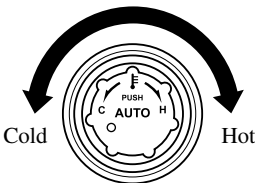
Climate Control System

OFF switch



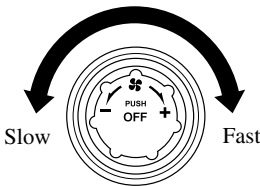
Pressing the OFF switch shuts off the climate control system.

Temperature control dial



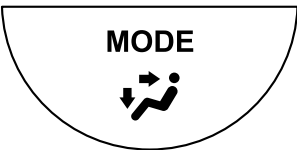
This dial controls temperature. Turn it clockwise for hot and counterclockwise for cold.

Fan control dial



The fan has seven speeds. The selected speed will be displayed.

Mode selector switch



The desired airflow mode can be selected (page 6-4).

NOTE

- With the airflow mode set to  position and the temperature control dial set at a medium temperature, heated air is directed to the feet and a comparably lower air temperature will flow through the central, left and right vents.
- To set the air vent to , press the windshield defroster switch.

A/C switch



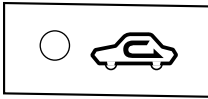
With the AUTO or fan control dial ON, press the A/C switch to select the air conditioning (cooling/dehumidifying functions) on or off.

Climate Control System

NOTE

The air conditioner may not function when the outside temperature approaches 0 °C (32 °F). (Indicator remains on even when system is off.)

Air intake selector



Outside or recirculated air positions can be selected. Press the switch to select outside/recirculated air positions.

Recirculated air position (indicator light illuminated)

Use this position when going through tunnels, driving in congested traffic (high engine exhaust areas) or when quick cooling is desired.

Outside air position (indicator light turned off)

Use this position for normal conditions and defogging.

WARNING

Do not use the  position in cold or rainy weather:

Using the  position in cold or rainy weather is dangerous as it will cause the windows to fog up. Your vision will be hampered, which could lead to a serious accident.

AMB (Ambient Temperature) switch


 A rectangular button with a white background and a black border. The letters "AMB" are printed in a large, bold, black sans-serif font in the center.

Press the AMB switch to display the ambient temperature.

NOTE

- The displayed ambient temperature may vary from the actual ambient temperature depending on the surrounding area and vehicle conditions.
- Press the AMB switch 3 seconds or more to switch the display from Fahrenheit to Centigrade or vice versa.
- Press the AMB switch again to switch the display from ambient temperature to the temperature set for the air conditioner.

Windshield defroster switch

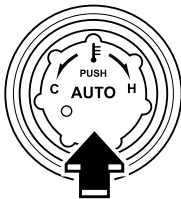


Press the switch to defrost the windshield and front door windows.

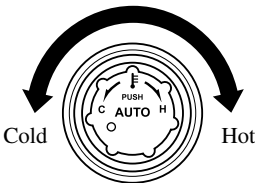
Climate Control System

▼ Operation of Automatic Air Conditioning

1. Press the AUTO switch. Selection of the airflow mode, air intake selector and amount of airflow will be automatically controlled.



2. Use the temperature control dial to select a desired temperature.

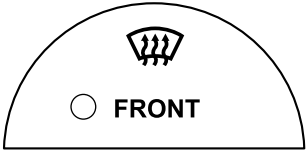


To turn off the system, press the OFF switch.

NOTE

- Setting the temperature to maximum high or low will not provide the desired temperature at a faster rate.
- When selecting heat, the system will restrict airflow until it has warmed to prevent cold air from blowing out of the vents.

▼ Windshield Defrosting and Defogging



Press the windshield defroster switch. In this position, the  position is automatically selected, and the air conditioner automatically turns on. The air conditioner will directly dehumidify the air to the front windshield and side windows (page 6-4). Airflow amount will be increased.

WARNING

Set the temperature control to the hot or warm position when defogging ( position):

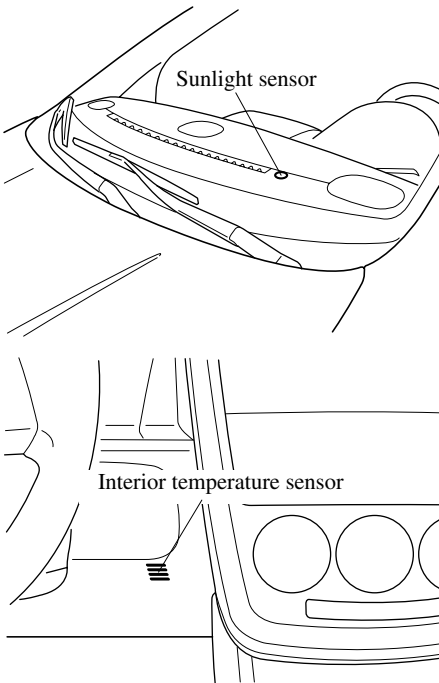
Using the  position with the temperature control set to the cold position is dangerous as it will cause the outside of the windshield to fog up. Your vision will be hampered, which could lead to a serious accident.

NOTE

Use the temperature control dial to increase the air flow temperature and defog the windshield more quickly.

▼Sunlight/Temperature Sensor

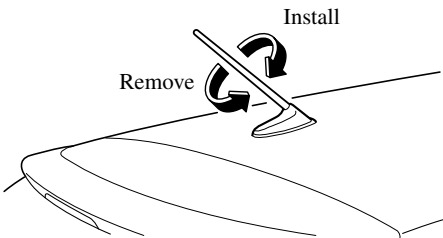
The fully automatic air conditioner function measures inside and outside temperatures, and sunlight. It then sets temperatures inside the passenger compartment accordingly. Don't obstruct the sensor.



Antenna

▼ Detachable Type

To remove the antenna, turn it counterclockwise.
To install the antenna, turn it clockwise.
Make sure the antenna is securely installed.



⚠ CAUTION

- To prevent damage to the antenna, remove it before entering a car wash facility or passing beneath a low overhead clearance.
- Be careful around the antenna when removing snow from the roof. Otherwise the antenna could be damaged.

NOTE

When leaving your vehicle unattended, we recommend that you remove the antenna and store it inside the vehicle.

Operating Tips for Audio System

⚠ WARNING

Do not adjust the audio control switches while driving the vehicle:
Adjusting the audio while driving the vehicle is dangerous as it could distract your attention from the vehicle operation which could lead to a serious accident. Always adjust the audio while the vehicle is stopped. Even if the audio control switches are equipped on the steering wheel, learn to use the switches without looking down at them so that you can keep your maximum attention on the road while driving the vehicle.

⚠ CAUTION

For the purposes of safe driving, adjust the audio volume to a level that allows you to hear sounds outside of the vehicle.

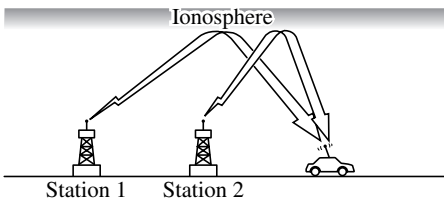
NOTE

- Do not use the audio for long periods of time while the engine is off. Otherwise the battery could go dead.
- If a cellular phone or CB radio is used in or near the vehicle, it could cause noise to occur from the audio system, however, this does not indicate that the system has been damaged.

▼ Radio Reception

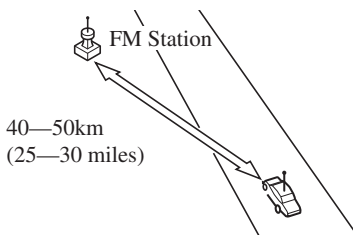
AM characteristics

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.

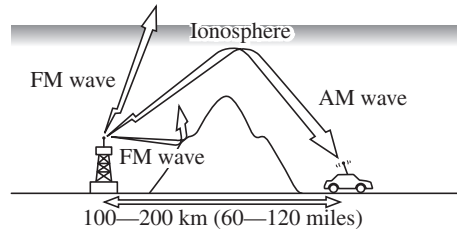


FM characteristics

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.



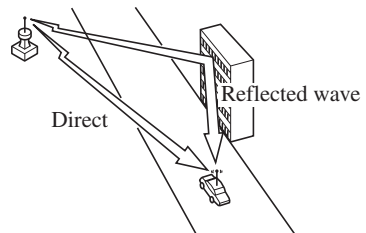
Signals from an FM transmitter are similar to beams of light because they do not bend around corners, but they do reflect. Unlike AM signals, FM signals cannot travel beyond the horizon. Therefore, FM stations cannot be received at the great distances possible with AM reception.



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

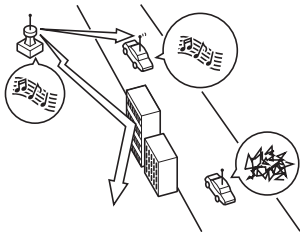
Since FM signals can be reflected by obstructions, it is possible to receive both the direct signal and the reflected signal at the same time. This causes a slight delay in reception and may be heard as a broken sound or a distortion. This problem may also be encountered when in close proximity to the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



Audio System

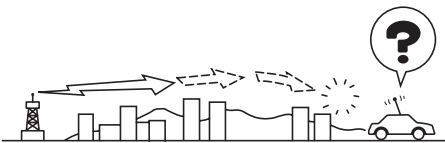
Flutter/Skip noise

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.



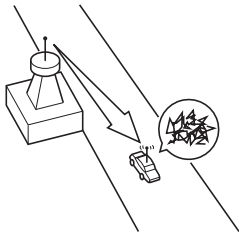
Weak signal noise

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



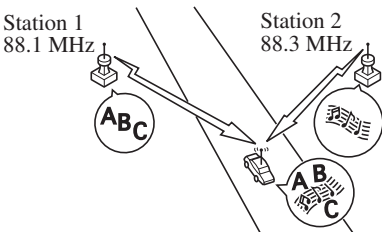
Strong signal noise

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 CD Player/In-Dash CD Changer

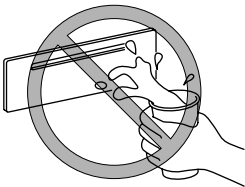
Condensation phenomenon

Immediately after turning on the heater when the vehicle is cold, the CD or optical components (prism and lens) in the CD player/In-dash CD 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.

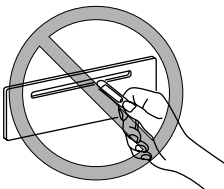
Handling the CD player/In-dash CD changer

The following precautions should be observed.

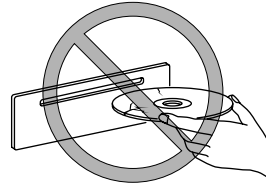
- Do not spill any liquid on the audio system.



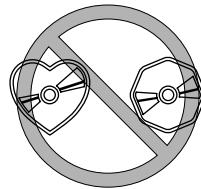
- Do not insert any objects, other than CDs, into the slot.



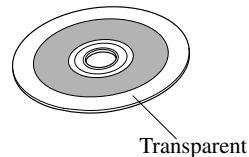
- The CD revolves at high speed within the unit. Defective (cracked or badly bent) CDs should never be used.



- Do not use non-conventional discs such as heart-shaped, octagonal discs, etc. The disc may not eject resulting in a malfunction.

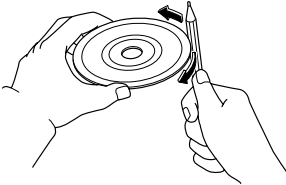


- If the memory portion of the CD is transparent or translucent, do not use the disc.

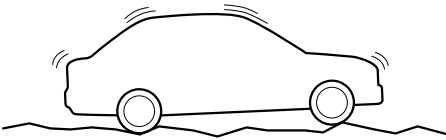


Audio System

- 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/In-dash CD changer will not play the CD. In addition, the disc may not eject resulting in a malfunction. Remove the rough edges in advance by using a ball-point pen or pencil as shown below. 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 may jump.



- The CD player/In-dash CD changer has been designed to play CDs bearing the identification logo as shown. No other discs can be played.
- Use discs that have been legitimately produced. If illegally-copied discs such as pirated discs are used, the system may not operate properly.

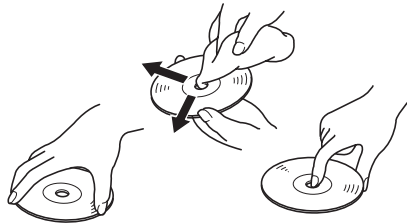
CD Player



In-dash CD changer



- 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). The disc may not eject resulting in a malfunction.
- 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 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.
- Insert discs one by one. If two discs are inserted at the same time, the system may not operate properly.
- CD TEXT textual information cannot be displayed by audio units other than the In-dash CD changer (MP3 support type only). (Only playback is possible.)
- The following player can play MP3 files recorded in CD-ROM, CD-R, and CD-RW.
 - In-dash CD changer (MP3 file support type only)
- The CD player/In-dash CD changer ejects the CD if the CD is inserted upside down. Also dirty and/or defective CDs may be ejected.
- An 8 cm (3 in) CD can be played in the CD player.

The In-dash CD changer is specially made for 12 cm (5 in) CDs.

An 8 cm (3 in) CD can be played in the In-dash CD changer (MP3 file support type only) if an 8 cm (3 in) CD adapter is used.

If an 8 cm (3 in) CD adapter is not used, the In-dash CD changer (MP3 file support type only) may be damaged. Always use a CD adapter.

An 8 cm (3 in) CD cannot be played in the In-dash CD changer (MP3 file non-support type only) even if an 8 cm (3 in) CD adapter is used.
- Do not insert cleaning discs in the CD player/In-dash CD changer.

- Do not insert any disc with a peel-off seal affixed to it.

Handling the In-dash CD changer

- This unit may not be able to play certain CD-R/CD-RWs made using a computer or music CD recorder due to disc characteristics, scratches, smudges, dirt, etc., or due to dust or condensation on the lens inside the unit.
- Storing CDs in the vehicle exposed to direct sunlight or high temperature may damage the CD-R/CD-RWs, and make them unplayable.
- CD-R/CD-RW exceeding 700 MB cannot be played.
- This unit may not be able to play certain discs made using a computer due to the application (writing software) setting used. (For details, consult the store where the application was purchased.)
- It is possible that certain text data, such as titles, recorded on a CD-R/CD-RW may not be displayed when musical data (CD-DA) is playing.
- The period from when a CD-RW is inserted to when it begins playing is longer than a normal CD or CD-R.
- Completely read the instruction manual and cautions for CD-R/CD-RWs.
- Do not use discs with cellophane tape adhering, partially peeled off labels, or adhesive material exuding from the edges of the CD label. Also, do not use discs with a commercially-available CD-R label affixed. The disc may not eject resulting in a malfunction.

Audio System

▼ Operating tips for MP3

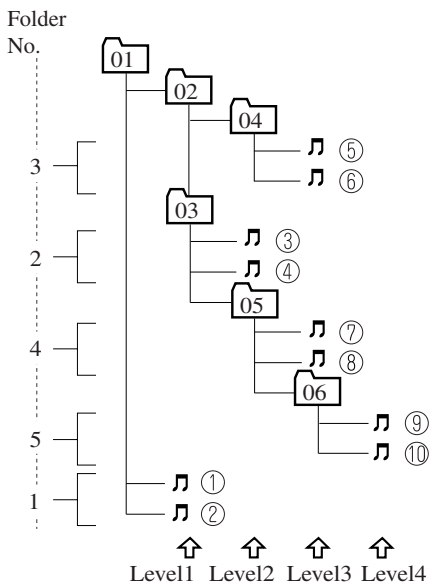
NOTE

Supply of this product only conveys a license for private, non-commercial use and does not convey a license nor imply any right to use this product in any commercial (i.e. revenue-generating) real time broadcasting (terrestrial, satellite, cable and/or any other media), broadcasting/streaming via the Internet, intranets and/or other networks or in other electronic content distribution systems, such as pay-audio or audio-on-demand applications. An independent license for such use is required. For details, please visit <http://www.mp3licensing.com>.

- This audio system handles MP3 files that have been recorded on CD-R/CD-RW/CD-ROMs. Discs that have been recorded using the following formats can be played:
 - ISO 9660 level 1
 - ISO 9660 level 2
 - Joliet extended format
 - Romeo extended format
- This unit handles MP3 files conforming to the MP3 format containing both header frames and data frames.
- This unit can play multi-session recorded discs that have up to 99 sessions.
- This unit can play MP3s with sampling frequencies of 16/22.05/24/32/44.1/48 kHz.
- This unit can play MP3 files that have been recorded in bit rates of 8 kbps to 320 kbps. Nonetheless, to insure enjoyment of music with consistent sound quality, it is recommended to use discs that have been recorded at a bit rate of 128 kbps or more.
- If a disc has both music data (CD-DA) and MP3 files, playback of the two file types differs depending on how the disc was recorded.
- Packet written discs cannot be played on this unit.
- This unit does not play CDs recorded using MP3i (MP3 interactive), MP3 PRO and RIFF MP3 formats.

About folders and files

- The order of hierarchy for MP3 files and folders during playback or other functions is from shallow to deep. The arrangement and playing order of a recorded disc containing MP3 files is as follows:
- File number
A numerical file number is assigned to each file in a folder in the order of hierarchy from shallow to deep.
- Folder number
A numerical folder number is assigned to each folder in the order of hierarchy from shallow to deep.



- The folder order is automatically assigned and this order cannot be optionally set.
- Any folder without an MP3 file will be ignored. (It will be skipped and the folder number will not be displayed.)

- MP3 files not conforming to the MP3 format containing both header frames and data frames will be skipped and not played.
- This unit will play MP3 files that have up to eight levels. However, the more levels a disc has, the longer it will take to initially start playing. It is recommended to record discs with two levels or less.
- A single disc with up to 999 files can be played and a single folder with up to 255 files can be played.
- When naming an MP3 file, be sure to add an MP3 file extension (.mp3) after the file name.
- The maximum number of characters that can be used for file names is as follows. However, this unit will only display up to 30 characters, including the file extension (.mp3).

	Maximum number of characters in a file name (including a separator “.” and the three letters of the file extension)
ISO9660 level 1	12*
ISO9660 level 2	31*
Joliet extended format	64
Romeo extended format	128

* English one-byte characters (capitalized only) and underbar “_” are available.

Audio System



CAUTION

This unit can only play MP3 files that have an MP3 file extension (.mp3) attached. Do not attach an MP3 file extension to any other type file as it could cause noise to be emitted or a malfunction in the unit.

About ID3 Tag display

- This unit can only display ID3 Tag album, track and artist names that have been input using Ver1.0/1.1/2.2/2.3 formats. Any other data that may have been input cannot be displayed.
- This unit can only display English (including numerals) one-byte characters. Use only English (including numerals) one-byte characters when inputting ID3 tags. Two-byte characters and some special symbols cannot be displayed.

Specialized glossary

MP3

Abbreviation for “MPEG Audio Layer 3”. A technical standard for audio compression as decided by an ISO (International Organization for Standardization) MPEG working group. Use of MP3 allows for audio data to be compressed to approximately a tenth of the source data size.

ISO 9660

An international standard for logical formatting of CD-ROM files and folders. It is divided into three separate levels based on differences in file naming procedures, data configuration and other characteristics.

Multi-session

A session is the complete amount of data recorded from the beginning to the end of a single period of CD-ROM, CD-R/CD-RW data recording. Multi-session refers to the existence of data from two or more sessions on a single disc.

Sampling

Refers to the process of encoding analog audio data at regular intervals and converting it to digital data. The sampling rate refers to the number of times a sample is taken in one second and is expressed in Hz units. Increasing the sampling rate improves the sound quality but also increases the data size.

Bit rate

Refers to the volume of data per second, expressed in bps (bits per second). Generally, the larger the number of the transfer bit rate when compressing an MP3 file, the more information regarding musical reproduction it carries, and therefore the better the sound quality.

Packet writing

A general term for the method, similar to that used for floppy discs or hard drives, of recording the required file in a single increment on a CD-R and similar.

ID3 Tag

ID3 tag is a method for storing information related to the music in an MP3 file. Information such as track, artist and album name can be stored. This content can be freely edited using ID3 editing function software.

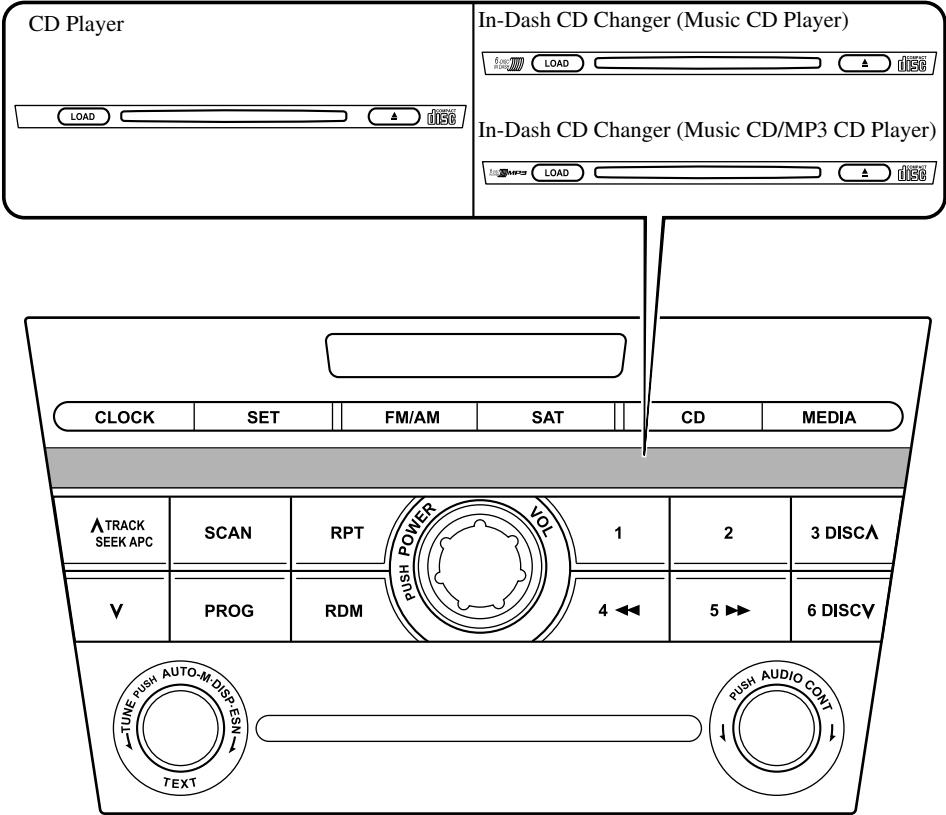
VBR

Abbreviation for Variable Bit Rate. While CBR (Constant Bit Rate) is generally used, VBR varies the bit rate for audio compression according to compression conditions and this allows for compression with preference given to sound quality.

MEMO

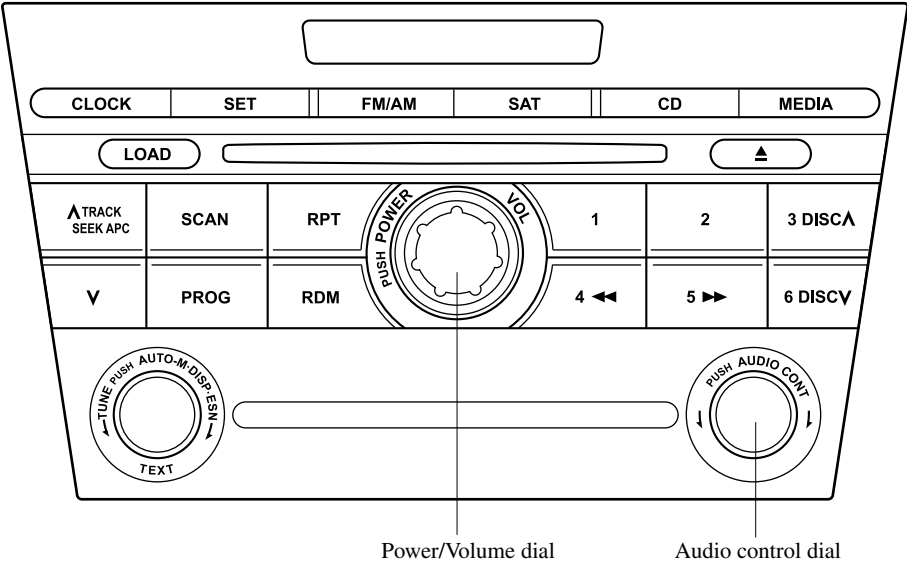
Audio Set

Audio information is displayed on the information display.



Power/Volume/Sound Controls	page 6-28
Operating the Radio	page 6-32
Operating the Compact Disc (CD) Player	page 6-36
Operating the In-Dash CD Changer	page 6-38
Error Indications	page 6-44

▼Power/Volume/Sound Controls



Power ON/OFF

Turn the ignition switch to the ACC or ON position.

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

NOTE

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

Volume adjustment

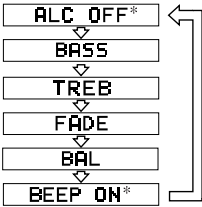
To adjust the volume, turn the power/volume dial.

Turn the power/volume dial to the right to increase volume, to the left to decrease it.

Audio sound adjustment

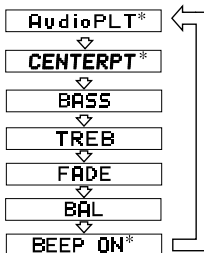
1. Press the audio control dial to select the function. The selected function will be indicated.

Standard audio-equipped model



* Depending on the mode selected, the indication changes.

Bose® Sound System-equipped model



* Depending on the mode selected, the indication changes.

2. Turn the audio control dial to adjust the selected functions as follows:

Standard audio-equipped model

Indication	Turn Left	Turn Right
ALC	Select mode	
BASS	Decrease bass	Increase bass
TREB	Decrease treble	Increase treble
FADE	Shift the sound to the front	Shift the sound to the rear
BAL	Shift the sound to the left	Shift the sound to the right
BEEP	OFF	ON

Bose® Sound System-equipped model

Indication	Turn Left	Turn Right
AudioPLT	OFF	ON
CENTERPT	OFF	ON
BASS	Decrease bass	Increase bass
TREB	Decrease treble	Increase treble
FADE	Shift the sound to the front	Shift the sound to the rear
BAL	Shift the sound to the left	Shift the sound to the right
BEEP	OFF	ON

NOTE

About 5 seconds after selecting any mode, the volume function will be automatically selected. To reset bass, treble, fade, and balance, press the audio control dial for 2 seconds. The unit will beep and “CLEAR” will be displayed.

Automatic Level Control (ALC)

(Standard audio-equipped model)

The automatic level control is a feature that automatically adjusts audio volume and sound quality according to the vehicle speed.

The volume increases in accordance with the increase in vehicle speed, and decreases as vehicle speed decreases.

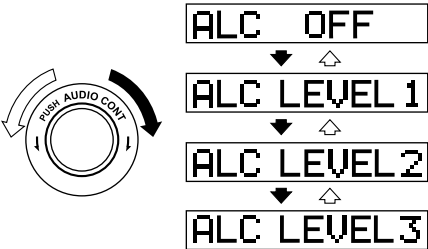
Interior Comfort

Audio System

The following four modes are available. Select the desired mode.

Mode	Volume change
ALC OFF	No change
ALC LEVEL 1	Minimum
ALC LEVEL 2	Medium
ALC LEVEL 3	Maximum

Turn the audio control dial to select the ALC OFF, ALC LEVEL1—3 mode. The selected mode will be indicated.



***AudioPilot™ (Bose® Sound System-equipped model)**

AudioPilot automatically adjusts audio volume and sound quality in accordance with the level of noise entering the vehicle interior while driving. When AudioPilot is turned ON, the system automatically calculates the conditions for optimum hearing of sound which may be difficult to hear depending on exterior noise.

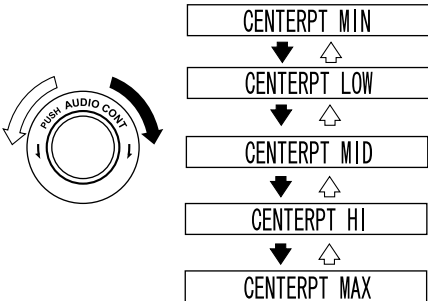
* AudioPilot™ is a registered trademark of Bose Corporation.

***Centerpoint® (Bose® Sound System-equipped model)**

Centerpoint offers you the experience of five-channel surround sound in your vehicle even with your conventional two-channel stereo CDs. Turn up the volume to enhance the surround sound effect, or down to lessen it.

Indication	Volume change
CENTERPT MIN	Minimum
CENTERPT LOW	Low
CENTERPT MID	Medium
CENTERPT HI	High
CENTERPT MAX	Maximum

1. Turn the audio control dial and select CENTERPT ON.
2. Press the audio control dial and select the surround effect mode.
3. Turn the audio control dial to select CENTERPT MIN—MAX mode. The selected mode will be indicated.

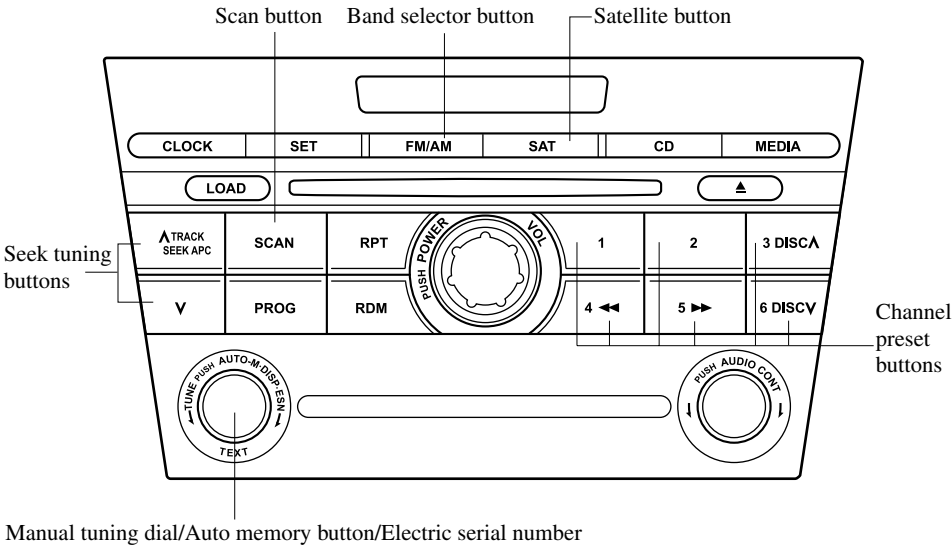


* Centerpoint® is a registered trademark of Bose Corporation.

BEEP setting

The beep-sound when operating the audio system can be set on or off.

▼ Operating the Radio



Radio ON

Press a band selector button (**FM/AM**) to turn the radio on.

Band selection

Successively pressing the band selector button (**FM/AM**) switches the bands as follows: FM1→FM2→AM.

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 dial will change the frequency higher or lower.

Seek tuning

Pressing the seek tuning button ($\wedge$, $\vee$) 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 (**SCAN**) to automatically sample strong stations. Scanning stops at each station for about 5 seconds. To hold a station, press the scan button (**SCAN**) again during this interval.

Preset channel tuning

The 6 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 desired station.
2. Depress a channel preset button for about 2 seconds until a beep sound 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 memory button (**AUTO-M**) for about 2 seconds until a beep sound is heard; the system will automatically scan and temporarily store up to 6 stations with the strongest frequencies in each selected band in that area.

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

Press and release the auto memory button (**AUTO-M**) 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

SATELLITE RADIO (SAT)

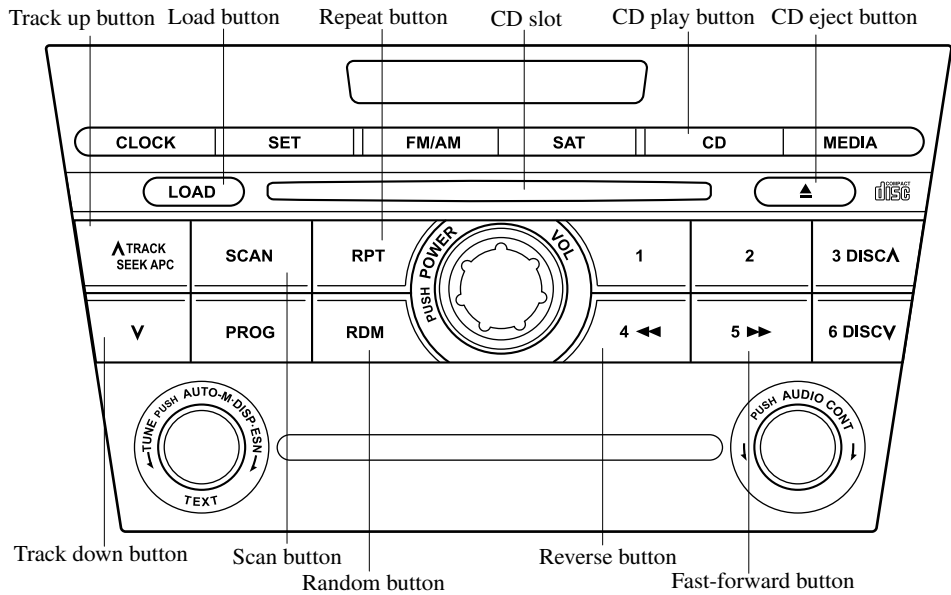
Vehicles equipped with the separately purchased SIRIUS digital satellite radio unit have the ability to receive up to 100 channels of digital quality programming coast to coast via satellite. For information on use, read the Satellite Radio Kit manual accompanying the SIRIUS digital satellite radio unit. A subscription to SIRIUS digital satellite radio service is required (available in the U.S. - Except Alaska and Hawaii) to enable this feature once the separately purchased SIRIUS digital satellite radio unit has been installed. For subscription information or digital satellite radio technical issues contact SIRIUS directly at:

- Web: www.siriusradio.com
- Phone (24 hrs/day, 7 days/week): 888-539-SIRI (7474)
- E-mail: customercare@sirius-radio.com
- Mailing Address: Sirius Satellite Radio
1221 Avenue Of The Americas
New York, NY 10020
Attention: Customer Care

Include your Sirius Radio ESN (Electronic Serial Number) when subscribing or requesting technical assistance. See the Satellite Radio Kit manual accompanying the SIRIUS unit for complete satellite radio activation procedures and information on how to display the ESN#.

MEMO

▼ Operating the Compact Disc (CD) Player *



Inserting the CD

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.

Playing

Press the CD play button (**CD**) to start play when a CD is in the unit. If there isn't a CD in the unit when the CD play button (**CD**) is pressed, "NO DISC" will flash on and off.

NOTE

When the load button (**LOAD**) is pressed, the CD will load and play even if the CD eject button (**▲**) had been previously pressed.

Ejecting the CD

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 (**V**) 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.

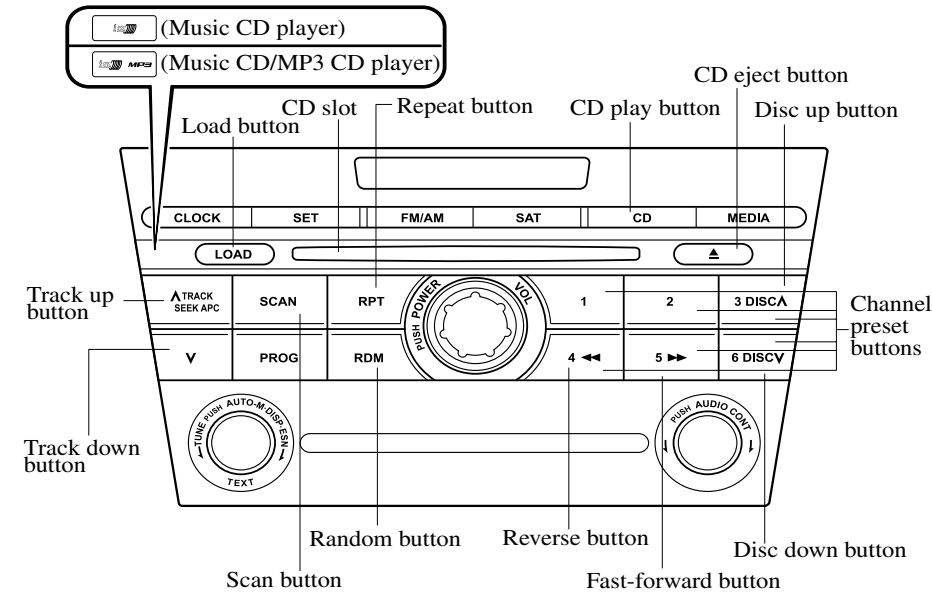
Random play

This feature allows the 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.

▼ Operating the In-Dash CD Changer *



There are two types of In-dash CD changers. Check which In-dash CD changer type you own.

Type	Playable data
Music CD player	· Music data (CD-DA)
Music CD/MP3 CD player	· Music data (CD-DA) · MP3 file

NOTE

If a disc has both music data (CD-DA) and MP3 files, playback of the two file types differs depending on how the disc was recorded.

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

The CD will begin playback automatically after insertion. 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 dial and the load button (**LOAD**) for about 2 seconds will turn this beeping sound ON or OFF.

Normal insertion

1. Press the load button (**LOAD**).
2. When “IN” is displayed, insert the CD.

Inserting CDs into desired tray number

1. Press and hold the load button (**LOAD**) for about 2 seconds until a beep sound is heard.
2. Press the channel preset button for the desired tray number while “WAIT” is displayed.
3. When “IN” is displayed, insert the CD.

NOTE

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

Multiple insertion

1. Press and hold the load button (**LOAD**) for about 2 seconds until a beep sound 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 other CD is inserted within 15 seconds after “IN” is displayed.
- The CD trays are full.

Displaying the CD-inserted tray number

When you want to know the number for a CD-inserted tray, press the display button (**DISP**). The tray number will be displayed for 5 seconds.

Ejecting the CD

Normal ejection

1. Press the CD eject button (**▲**). The disc number and “DISC OUT” will be displayed.
2. Pull out the CD.

NOTE

- When the CD is ejected during play, the next CD will be played automatically.
- (Music CD player)
If the CD is not removed from the slot within approximately 10 seconds after ejection, it will be re- inserted automatically.

Ejecting CDs from desired tray number

1. Press and hold the CD eject button (**▲**) for about 2 seconds until a beep sound is heard.
The “DISC OUT” display flashes.

Audio System

- 2. Press the channel preset button for the desired CD number for less than 5 seconds after the beep sound is heard.
- 3. Pull out the CD.

NOTE

(Music CD player)
If the CD is not removed from the slot within approximately 10 seconds after ejection, it will be re- inserted automatically.

Multiple ejection

- 1. Press and hold the CD eject button (▲) for about 2 seconds until a beep sound is heard.
The “DISC OUT” display flashes.
- 2. Press the CD eject button (▲) again for less than 5 seconds after the beep sound is heard.

NOTE

If the button is not pressed and about 5 seconds have elapsed while “DISC OUT” is flashing, CDs are automatically ejected.

- 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.
- (Music CD player)
If the CD is not removed from the slot within approximately 10 seconds after ejection, it will be re- inserted automatically.

Playing

Press the CD play button (CD) to start play when a CD is in the unit.
If there isn't a CD in the unit when the CD play button (CD) is pressed, “NO DISC” will flash on and off.

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 (Λ) once to skip forward to the beginning of the next track.
Press the track down button (V) once to skip back to the beginning of the current track.

Disc search

During music CD playback

To change the disc, press the DISC button (DISCΛ or DISCV) during playback.

During MP3 CD playback

To change the disc, press the DISC button (**DISC▲** or **DISCV**) for 1.5 seconds or more during playback.

Folder search (during MP3 CD playback)

To change to the previous folder, press the folder down button (**DISCV**) for less than 1.5 seconds, or press the folder up button (**DISC▲**) for less than 1.5 seconds to advance to the next folder.

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

During music CD playback

1. Press the repeat button (**RPT**) during playback to play the current track repeatedly. "RPT" is displayed.
2. Press the button again to cancel the repeat play.

During MP3 CD playback

(Track repeat)

1. Press the repeat button (**RPT**) during playback to play the current track repeatedly. "RPT" is displayed.
2. To cancel the repeat play, press the button again after 3 seconds.

(Folder repeat)

1. Press the repeat button (**RPT**) during playback, and then press the button again within 3 seconds to play the tracks in the current folder repeatedly. "RPT" is displayed.
2. Press the button again to cancel the repeat play.

Random play

Tracks are randomly selected and played.

During music CD playback

1. Press the random button (**RDM**) during playback to play the tracks in the CD randomly. "RDM" is displayed.
2. Press the button again to cancel the random play.

During MP3 CD playback

(Folder random)

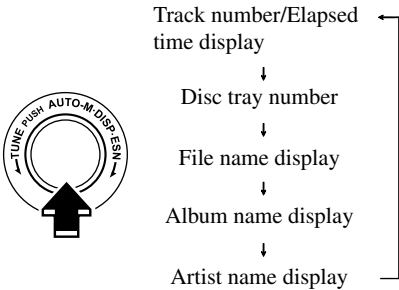
1. Press the random button (**RDM**) during playback to play the tracks in the folder randomly. "RDM" is displayed.
2. To cancel the random play, press the button again after 3 seconds.

(CD random)

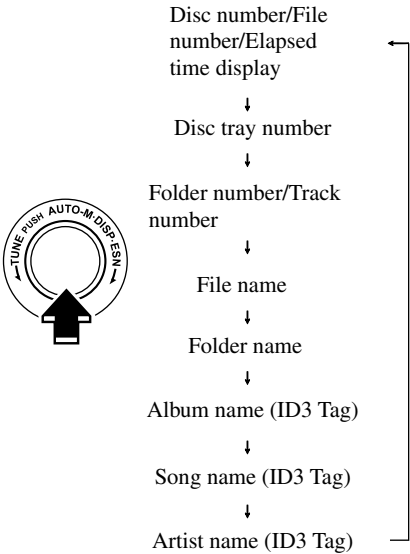
1. Press the random button (**RDM**) during playback, and then press the button again within 3 seconds to play the tracks in the CD randomly. “RDM” is displayed.
2. Press the button again to cancel the random play.

Switching the display (Music CD/MP3 CD player)

Each time the display button (**DISP**) is pressed during playback, the display will switch in the following order.
Music CD



MP3 CD



NOTE

(MP3 CD)

This unit can only read English (including numerals) one-byte characters. Depending on the CD writing software used, proper display may not be possible.

Display scroll (Music CD/MP3 CD player)

Only 12 characters can be displayed at one time. To display the rest of the characters of a long title, turn the display feed dial (**TEXT**) to the right. Hidden titles can be scrolled into the display one character at a time.

NOTE

The displayable number of characters is limited. If the number of characters, including the file extension (.mp3), exceeds 32 characters, it may not be fully displayed.

Message display

If “CHECK CD” is displayed, it means that there is some CD malfunction. Check for damage, dirt, or smudges on the CD, and then properly reinsert. If the message appears again, take the unit to an Authorized Mazda Dealer for service.

Audio System

▼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 CD	CD is inserted upside down	Insert the CD properly. If the error indication does not disappear, consult an Authorized Mazda Dealer
	CD is defective	Insert another CD properly. If the error indication does not disappear, consult an Authorized Mazda Dealer

Audio Control Switch Operation (Steering Wheel) *

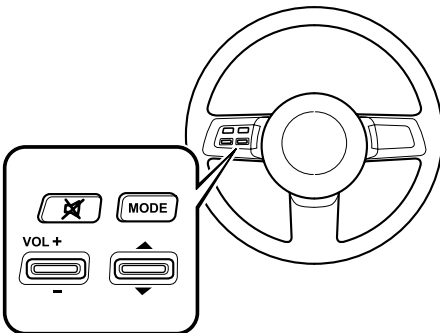
When the audio unit is turned on, operation of the audio unit from the steering wheel is possible.

NOTE

Because the audio unit will be turned off under the following conditions, the switches will be inoperable.

- When the ignition switch is turned to the LOCK position.
- When the power button on the audio unit is pressed and the audio unit is turned off.
- When CD being played is ejected. (For the In-dash CD changer, when all CDs are ejected.)

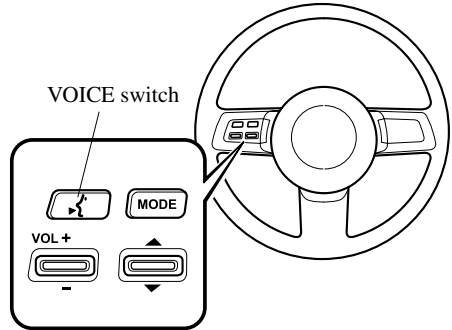
Without navigation system



With navigation system

Use the VOICE switch for navigation system sound operation.

For details, refer to “NAVIGATION SYSTEM”.



NOTE

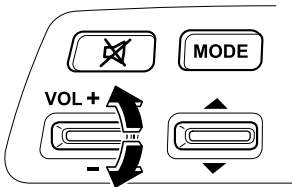
- The VOICE switch is operable with the audio unit turned off.
- Mazda has installed this system to prevent distraction while driving the vehicle and using audio controls on the dashboard.
Always make safe driving your first priority.

Audio System

▼ Adjusting the Volume

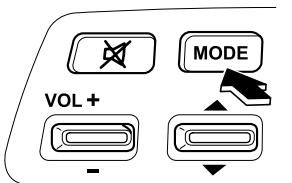
To increase the volume, pull up the volume switch.

To decrease the volume, press down the volume switch.



▼ Changing the Source

Press the mode switch (**MODE**) to change the audio source (FM1 radio> FM2 radio> AM radio> CD player or CD changer> SIRIUS1> SIRIUS2> SIRIUS3> cyclical).

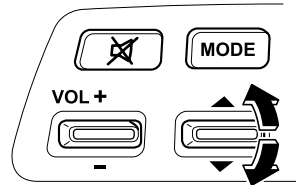


NOTE

CD, CD changer, and SIRIUS digital satellite radio modes cannot be selected in the following cases:

- CD, CD changer, or SIRIUS digital satellite radio unit is not equipped on the audio system.
- CD has not been inserted.

▼ Seek Switch



When listening to the radio

Pull up or press down the seek switch, the radio switches to the next/previous stored station in the order that it was stored (1—6).

Pull up or press down the seek switch for about 2 seconds until a beep sound is heard to seek all usable stations at a higher or lower frequency whether programmed or not.

When playing a CD

Pull up the seek switch to skip to the next track.

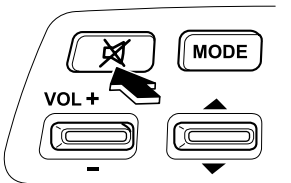
Press down the seek switch to repeat the current track.

▼ Mute Switch

Press the mute switch () once to mute audio, press it again to resume audio output.

NOTE

If the ignition switch is turned to the LOCK position with the audio muted, the mute will be canceled.
Therefore, when the engine is restarted, the audio is not muted. To mute the audio again, press the mute switch ().



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 is required, contact an Authorized Mazda Dealer.
- Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous laser exposure. Never operate the CD player with the top case of the unit removed.
- Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

NOTE

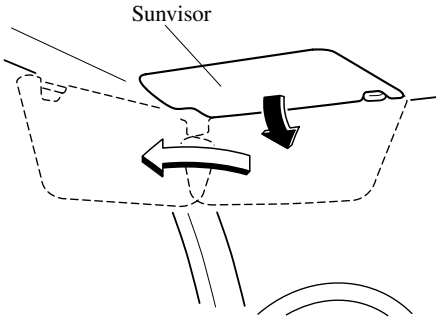
For CD player section:
This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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.

Sunvisors

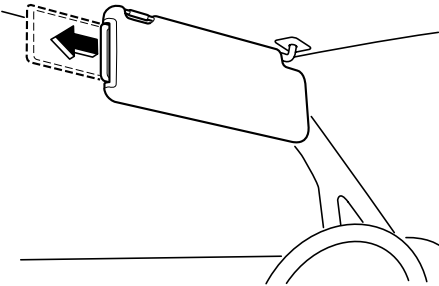
When you need a sunvisor, lower it for use in front or swing it to the side.



▼ Side Extension Sunvisors

The visor extender extends the sunvisor's range of sun shading.

To use, pull it out.



CAUTION

When moving the sunvisor, reinsert the visor extender, otherwise the visor extender could hit the rearview mirror.

▼ Vanity Mirrors

To use the vanity mirror, lower the sunvisor.

Interior Equipment

Interior Lights

▼Illuminated Entry System

When the illuminated entry system operates, the overhead light (switch is in the DOOR position) turn on for:

- About 30 seconds after the driver's door is unlocked and the ignition key is removed.
- About 15 seconds after all doors are closed (If your vehicle is equipped with the advanced key, the overhead light turns on for about 5 seconds when the advanced key is outside of the vehicle).
- About 15 seconds after the key is removed from the ignition with all doors closed.

The light also turns off when:

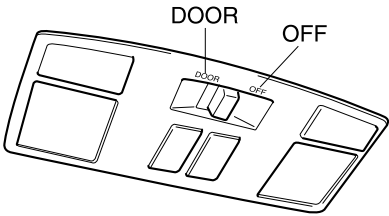
- The ignition switch is turned to the ON position and all doors are closed.
- The driver's door is locked.

NOTE

Battery saver
If any door is left opened, the light goes out after about 30 minutes to save the battery.
The light turns on again when the ignition switch is turned to the ON position, or when any door is opened after all doors have been closed.

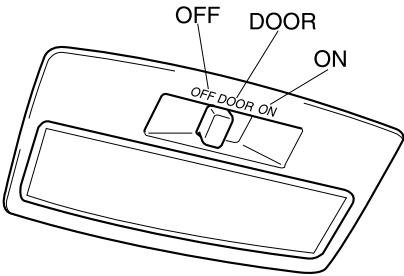
▼Overhead Lights

Front



Switch Position	Front Overhead Lights
OFF	Light off
DOOR	• Light on when any door is open • Light on or off when the illuminated entry system is on

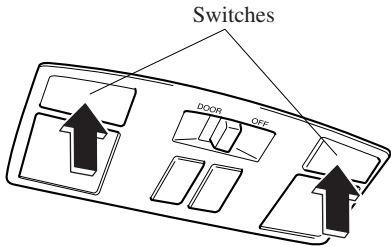
Rear



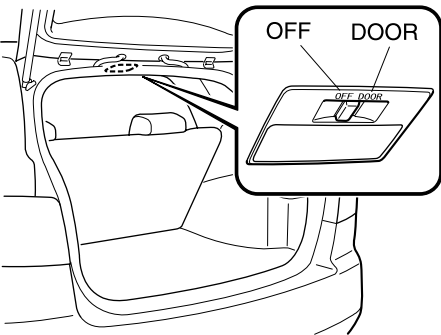
Switch Position	Rear Overhead Lights
OFF	Light off
DOOR	• Light on when any door is open • Light on or off when the illuminated entry system is on
ON	Light on

▼Map Lights

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

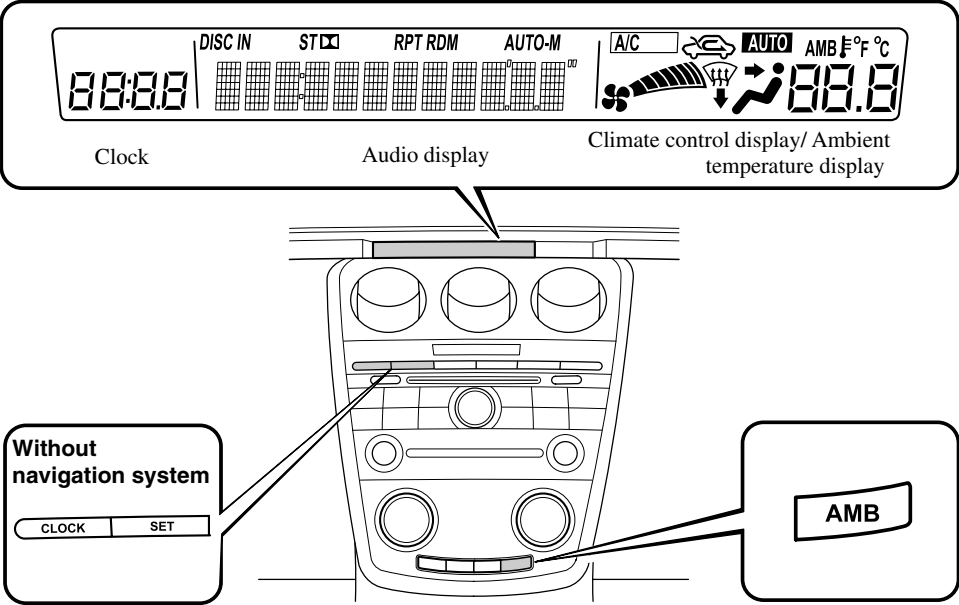


▼Luggage Compartment Light



Switch Position	Luggage Compartment Light
OFF	Light off
DOOR	Light on when the liftgate is open

Information Display



▼ Information Display Functions

The information display has the following functions:

- Clock
- Ambient Temperature Display (Outside Temperature Display, Fully Automatic Type)
- Climate Control Display (Fully Automatic Type)
- Audio Display

▼Clock

When the ignition switch is in the ACC or ON position, the time is displayed.



Without navigation system

Time setting

1. Press the CLOCK switch until a beep sounds, and “12Hr” and “24Hr” will be displayed.
2. Press the SET switch to switch between “12Hr” and “24Hr” displays. The selected display will flash.
To select the desired clock setting, press the CLOCK switch again while the preferred setting is flashing.
3. “Hr. ADJUST” will be displayed next, and the hour portion of the display will flash. Press the SET switch to set the hour, then press the CLOCK switch.
4. “Min. ADJUST” will be displayed next, and the minutes portion of the display will flash. Press the SET switch to set the minutes, then press the CLOCK switch.

Time resetting

While the clock is displayed, press the SET switch 1.5 seconds or more. When the switch is released, a beep will sound and the clock will be reset as follows:

(Example)

12:01—12:29→12:00

12:30—12:59→1:00

NOTE

When the SET switch is released, the seconds are reset to “00”.

With navigation system

Refer to “NAVIGATION SYSTEM”.

NOTE

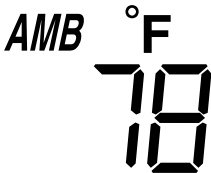
Minutes and seconds are adjusted by the GPS, however, it is necessary to adjust hours under the following conditions:

- Driving across different time zones
- Daylight saving time start and end

Interior Equipment

▼ Ambient Temperature Display (Fully Automatic Type)

When the ignition switch is in the ON position, press the AMB switch to display the ambient temperature.



NOTE

- The displayed ambient temperature may vary from the actual ambient temperature depending on the surrounding area and vehicle conditions.
- Press the AMB switch 2 seconds or more to switch the display from Fahrenheit to Centigrade or vice versa.
- **(With fully automatic climate control system)**
Press the AMB switch again to switch the display from ambient temperature to the temperature set for the air conditioner.

▼ Climate Control Display

The climate control system status is displayed. To operate the climate control system, refer to “Climate Control System” (page 6-2).

▼ Audio Display

The audio system status is displayed. To operate the audio system, refer to “Audio System” (page 6-16).

Cup Holder

WARNING

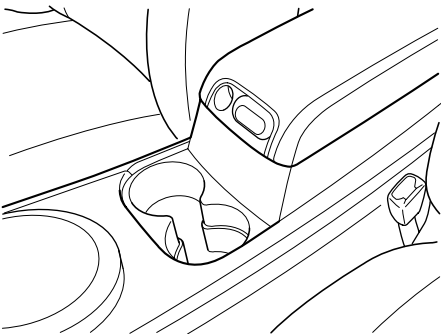
Never use a cup holder to hold hot liquids while the vehicle is moving: Using a cup holder to hold hot liquids while the vehicle is moving is dangerous. If the contents spill, you could be scalded.

Do not put anything other than cups or drink cans in cup holders: Putting objects other than cups or drink cans in a cup holder is dangerous.

During sudden braking or maneuvering, occupants could be hit and injured, or objects could be thrown around the vehicle, causing interference with the driver and the possibility of an accident. Only use a cup holder for cups or drink cans.

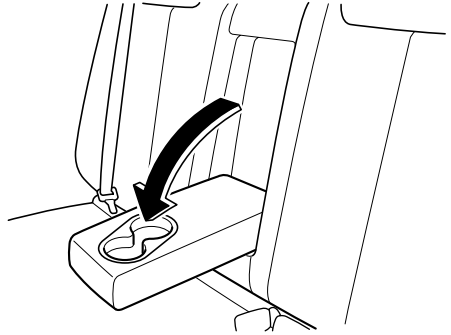
▼ Front

The front cup holder is in the center console.



▼ Rear

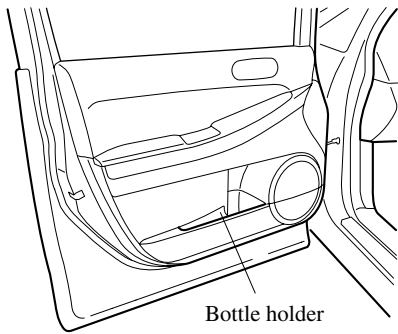
The rear cup holder is on the rear center armrest.



Interior Equipment

Bottle Holder

Bottle holders are on the inside of the front doors.



Bottle holder

CAUTION

Do not use the bottle holders for containers without caps. The contents may spill when the door is opened or closed.

Storage Compartments

WARNING

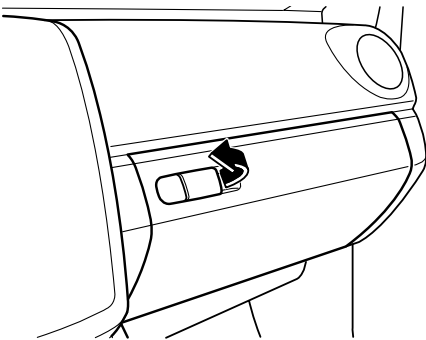
Keep storage boxes closed when driving:
Driving with the storage boxes open is dangerous. To reduce the possibility of injury in an accident or a sudden stop, keep the storage boxes closed when driving.

CAUTION

Do not leave lighters or eyeglasses in the storage boxes while parked under the sun. A lighter could explode or the plastic material in eyeglasses could deform and crack from high temperature.

▼ **Glove Box**

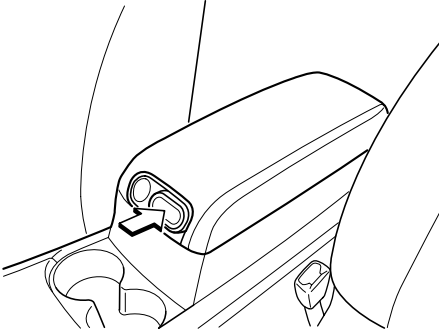
To open the glove box, pull the latch toward you.



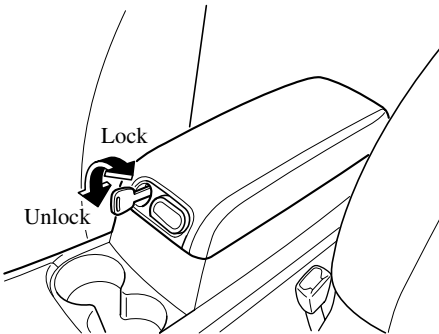
Interior Equipment

▼ Center Console

To open, push the button.



The center console has a lockable lid, insert the key into the slot; then turn the key clockwise to lock, counterclockwise to unlock.

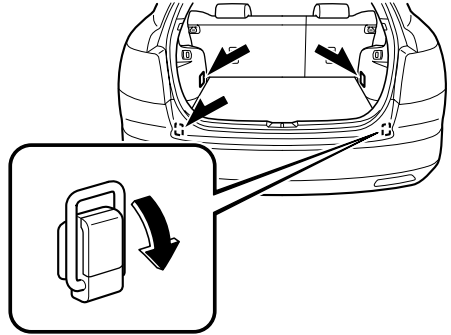


▼ Cargo Securing Loops

WARNING

Make sure luggage and cargo is secured before driving:
Not securing cargo while driving is dangerous as it could move or be crushed during sudden braking or a collision and cause injury.

Use the loops in the luggage compartment to secure cargo with a rope or net. The tensile strength of the loops is 196 N (20 kgf, 44 lbf). Do not apply excessive force to the loops as it will damage them.



Interior Equipment

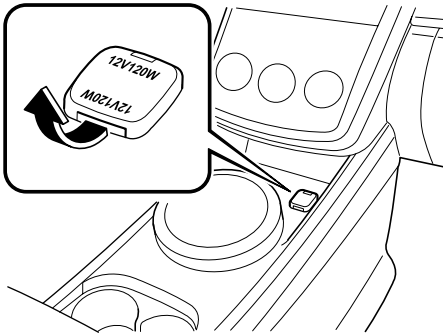
Accessory Sockets

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

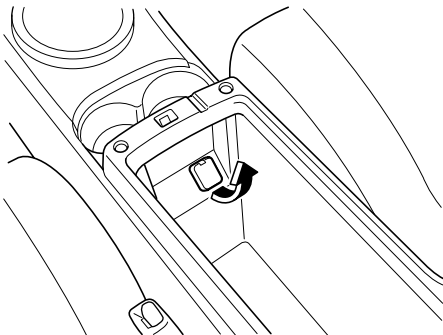
Only use genuine Mazda accessories or the equivalent requiring no greater than 120 W (DC 12 V, 10 A).

The accessory socket is in the center console.

Type A



Type B



CAUTION

To prevent accessory socket damage or electrical failure, pay attention to the following:

- Don't use accessories that require more than 120 W (DC 12 V, 10 A).
- Don't use accessories that are not genuine Mazda accessories or the equivalent.
- Close the cover when the accessory socket is not in use.
- Correctly insert the plug into the accessory socket.

NOTE

To prevent discharging the battery, don't use the socket for long periods with the engine off or idling.

Helpful information on what to do in an emergency.

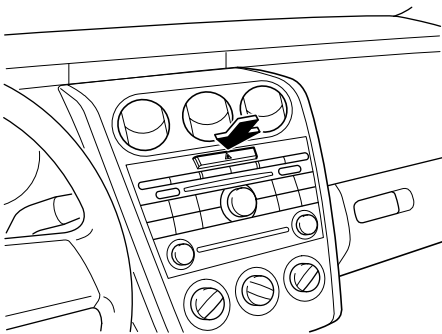
Parking in an Emergency	7-2
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Parking in an Emergency

Parking in an Emergency

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

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



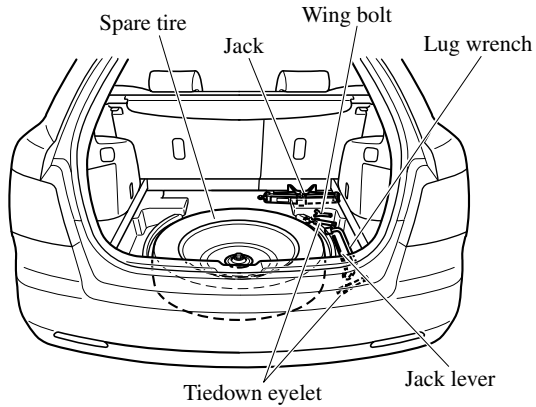
Depress the hazard warning flasher and all the turn signals will flash.

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.

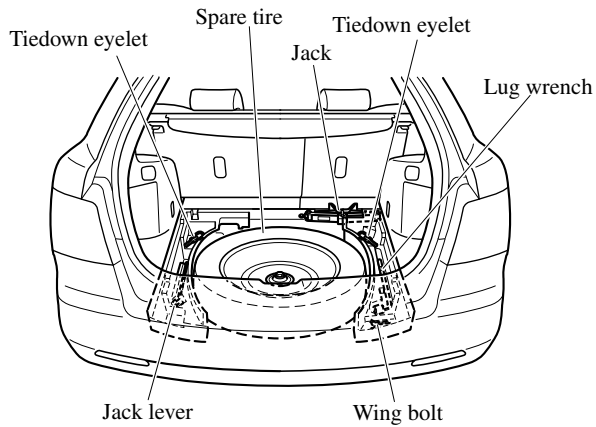
Spare Tire and Tool Storage

Spare tire and tools are stored in the locations illustrated in the diagram.

(Except Mexico)



(Mexico)

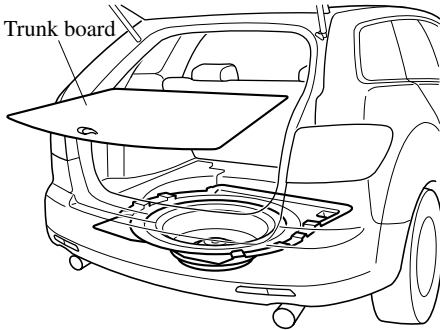


Flat Tire

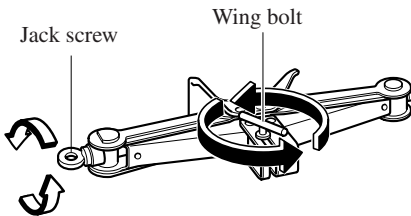
▼ Jack

To remove the jack

1. Remove the trunk board.



2. Turn the wing bolt and jack screw counterclockwise.



NOTE

The jack can be removed from the rear door if the rear seat back is folded forward.
Refer to Rear Seat on page 2-10.

To secure the jack

1. Turn the wing bolt clockwise and temporarily tighten it.
2. Turn the jack screw clockwise and extend the jack to secure it to the vehicle.
3. Turn the wing bolt and tighten it completely.

▼ Spare Tire

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

WARNING

Do not install the temporary spare tire on the front wheels (driving wheels) when driving 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

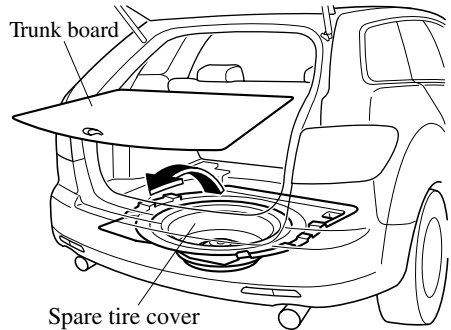
- When using the temporary spare tire, driving stability may decrease compared to when using only the conventional tire.
Drive carefully.
- To avoid damage to the temporary spare tire or to the vehicle, observe the following precautions:
 - Do not exceed 80 km/h (50 mph).
 - Avoid driving over obstacles. Also, do not 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).
 - Do not use a tire chain on this tire because it won't fit properly.
 - Do not use your temporary spare tire 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.
- **(With limited slip differential)**
When using the temporary spare tire on the front axle, replace it with a standard tire as soon as possible. The size difference between the spare and the standard tire will cause the limited slip differential to malfunction.

NOTE**(With Tire Pressure Monitoring System)**

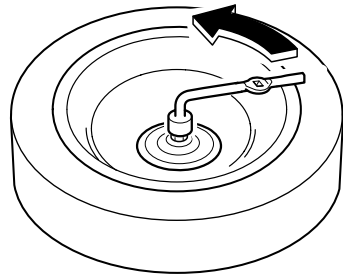
A tire pressure sensor is not installed to the temporary spare tire. The warning light will flash continuously while the temporary spare tire is being used (page 5-27).

To remove the spare tire

1. Remove the trunk board, and if a spare tire cover is equipped remove it.



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



Flat Tire

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.

Passenger in Vehicle Supported by a Jack:
Allowing someone to remain in a vehicle supported by a jack is dangerous. The occupant could cause the vehicle to fall resulting in serious injury. Never allow anyone inside a vehicle supported by a jack.

 **CAUTION**

(With Tire Pressure Monitoring System)
The wheels equipped on your Mazda are specially designed for installation of the tire pressure sensors. Do not use non-genuine wheels, otherwise it may not be possible to install the tire pressure sensors.

NOTE

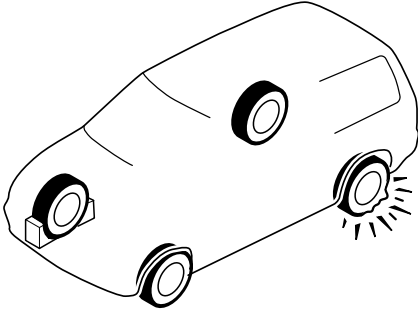
- Make sure the jack is well lubricated before using it.

(With Tire Pressure Monitoring System)

- Be sure to register the tire pressure sensor ID signal code whenever tires or wheels are changed (page 5-29).

1. Park on a level surface off the right-of-way and firmly set the parking brake.
2. Shift into Park (P) 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, tool, and spare tire (page 7-3).

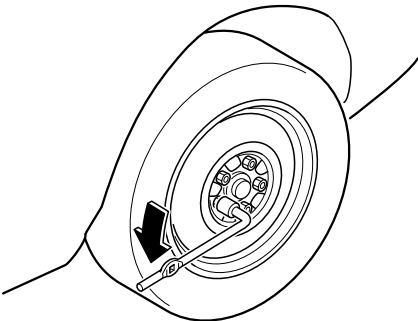
6. Block the wheel diagonally opposite the flat tire. When blocking a wheel, place a tire block both in front and behind the tire.

**NOTE**

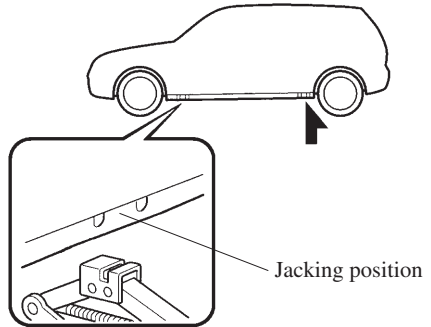
When blocking a tire, use rocks or wood blocks of sufficient size to hold the tire in place.

▼ Removing a Flat Tire

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



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

**WARNING**

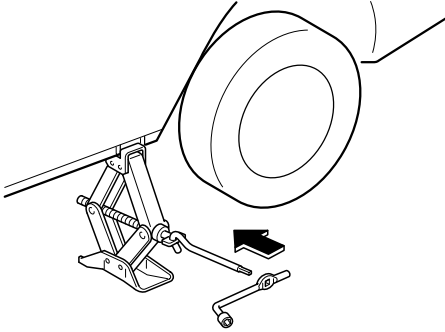
Incorrect Jacking Position:
Attempting to jack the vehicle in positions other than those recommended in this manual is dangerous. The vehicle could slip off the jack and seriously injure or even kill someone. Use only the front and rear jacking positions recommended in this manual.

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

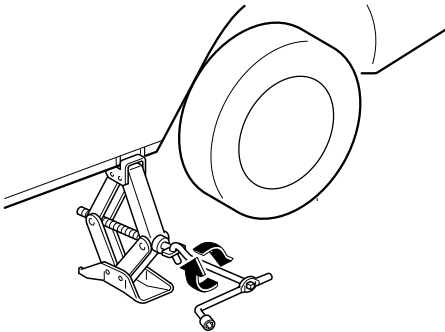
Placing Objects Under the Jack:
Jacking the vehicle with an object under the jack is dangerous. The jack could slip and someone could be seriously injured by the jack or the falling vehicle. Never place objects under the jack.

Flat Tire

3. Insert the jack lever and attach the lug wrench to tire jack.



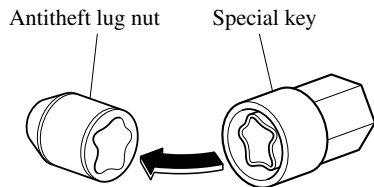
4. Turn the lug wrench clockwise and raise the vehicle high enough so that the spare tire can be installed. Before removing the lug nuts, make sure your Mazda is firmly in position and that it cannot slip or move.



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

▼ Locking Lug Nuts *

If your vehicle has optional antitheft wheel lug nuts, one on each wheel will lock the tires 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 this key, consult an Authorized Mazda Dealer or use the lock manufacturer's order form, which is with the registration card.



To remove an antitheft lug nut

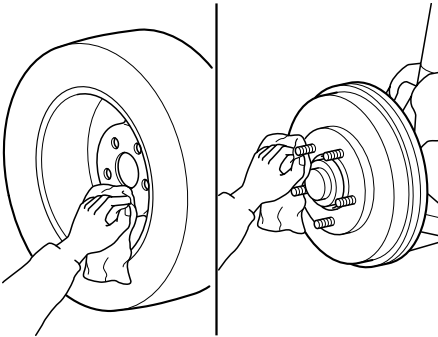
1. Obtain the key for the antitheft lug nut.
2. Place the key on top of the nut, and be sure to hold the key square to it. If you hold the key at an angle, you may damage both key and nut. Don't use a power impact wrench.
3. Place the lug wrench on top of the key and apply pressure. Turn the wrench counterclockwise.

To install the nut

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

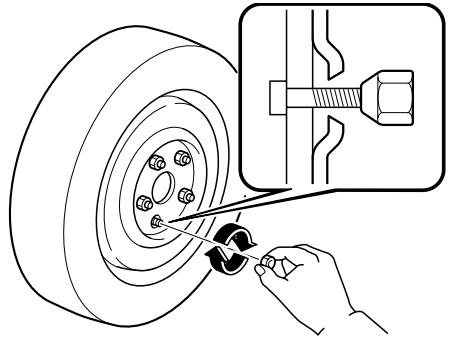
▼ Mounting the Spare Tire

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 lug 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 lug nuts are clean before changing or replacing tires.

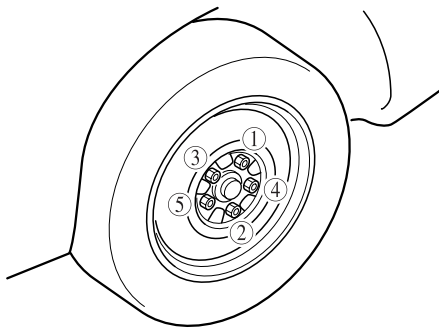
2. Mount the spare tire.
3. Install the lug nuts with the beveled edge inward; tighten them by hand.

**! WARNING****Don't Apply Oil or Grease to Lug Nuts, Bolts:**

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

Flat Tire

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 an Authorized Mazda Dealer.

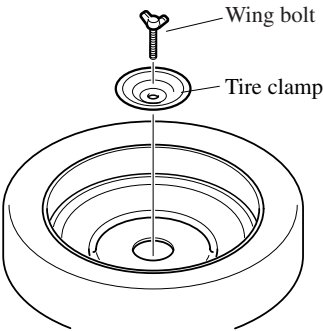
Nut tightening torque	
N·m (kgf·m, ft·lbf)	89—117 (9—11, 66—86)

 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.

5. Remove the center cap.
6. Store the damaged tire, using the wing bolt to hold it in place.



NOTE

Always use the wing bolt to secure the damaged tire. Store the tire hold-down bolt used to tighten down the spare tire in the same place as where the wing bolt had been stored.

7. Check the inflation pressure. Refer to the specification charts on page 10-6.
8. Have the flat tire repaired or replaced as soon as possible.

**WARNING**

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 tires' air pressure, check the spare tire, too.

NOTE**(With Tire Pressure Monitoring System)**

A tire pressure sensor is not installed to the temporary spare tire. The warning light will flash continuously while the temporary spare tire is being used (page 5-27).

NOTE

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

Overheating

Overheating

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



WARNING



Turn off the ignition switch and make sure the fan is not running before attempting to work near the cooling fan:

Working near the cooling fan when it is running is dangerous. The fan could continue running indefinitely even if the engine has stopped and the engine compartment temperature is high. You could be hit by the fan and seriously injured.



Do not remove either cooling system caps when the engine and radiator are hot:

When the engine and radiator are hot, scalding coolant and steam may shoot out under pressure and cause serious injury.

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

If the temperature gauge indicates overheating:

1. Drive safely to the side of the road and park off the right-of-way.
2. Shift into park (P).
3. Apply the parking brake.
4. Turn off the air conditioner.
5. 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.

Wait until the steam dissipates, then open the hood and start the engine.

If neither coolant nor steam is escaping:

Open the hood and idle the engine until it cools.



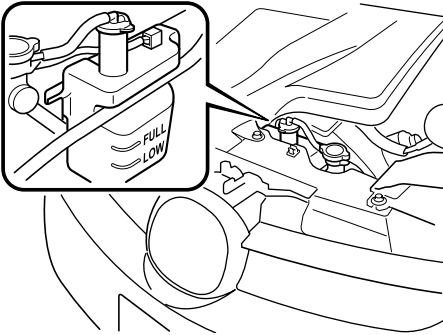
CAUTION

If the cooling fan does not operate while the engine is running, the engine temperature will increase. Stop the engine and call an Authorized Mazda Dealer.

6. Make sure the cooling fan is operating, then turn off the engine after the temperature has decreased.
7. When cool, check the coolant level. If it's low, look for coolant leaks from the radiator and hoses.

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 8-20).

⚠ 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. Consult an Authorized Mazda Dealer.

Emergency Starting

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 depressing 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



Follow These Precautions Carefully:

To ensure safe and correct handling of the battery, read the following precautions carefully before using the battery or inspecting it.



Eye Protection:

*Working without eye protection is dangerous. Battery fluid contains **SULFURIC ACID** which could cause blindness if splashed into your eyes. Also, hydrogen gas produced during normal battery operation, could ignite and cause the battery to explode. Always wear eye protection when working near the battery.*



Spilled Battery Fluid:

*Spilled battery fluid is dangerous. Battery fluid contains **SULFURIC ACID** which could cause serious injuries if it gets in eyes, skin or clothing. If this happens, immediately flush your eyes with water for 15 minutes or wash your skin thoroughly and get medical attention. Wear eye protection and protective gloves to prevent contact with battery fluid.*



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.

Emergency Starting

WARNING



Keep Flames Away:

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. When working near a battery, do not allow metal tools to contact the positive (+) or negative (–) terminal of the battery. Do not allow the positive (+) terminal to contact any other metal object that could cause sparks.



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.

Low Fluid Level or Frozen Battery:

*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.*

Connecting Jumper Cable Directly to Negative Terminal:

*Connecting the end of the second jumper 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 negative cable to a good ground point away from the battery.*

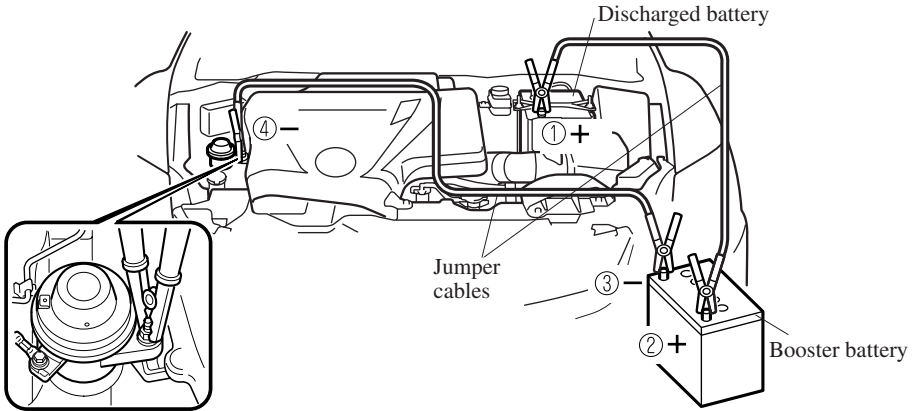
Connecting Jumper Cable to Moving Parts:

Connecting a jumper cable near or to moving parts (cooling fans, belts) is dangerous. The cable could get caught when the engine starts and cause serious injury. Route the jumper cables away from parts that will be moving.

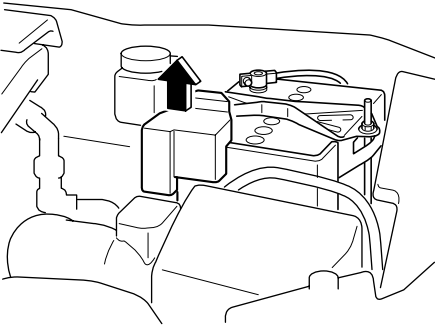
CAUTION

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).

Connect cables in numerical order and disconnect in reverse order



1. Remove the battery cover.



2. Make sure the booster battery is 12 V and that its negative terminal is grounded.

3. If the booster battery is in another vehicle, don't allow both vehicles to touch. Turn off the engine of the vehicle with the booster battery and all unnecessary electrical loads in both vehicles.

4. Connect the jumper cables in the exact sequence as in the illustration.

- Connect one end of a cable to the positive terminal on the discharged battery (1).
- Attach the other end to the positive terminal on the booster battery (2).
- Connect one end of the other cable to the negative terminal of the booster battery (3).
- Connect the other end to a solid, stationary, exposed metallic point (for example, the engine mounting bolt facing the front of the vehicle, as shown in the figure) away from the discharged battery (4).

5. Start the engine of the booster vehicle and run it a few minutes. Then start the engine of the other vehicle.

6. When finished, carefully disconnect the cables in the reverse order described in the illustration.

Emergency Starting

- 7. If the battery cover has been removed, install it in the reverse order of removal.

NOTE
Verify that the covers are securely installed.

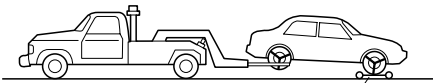
Push-Starting

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

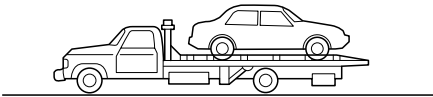
Towing Description

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. Particularly when towing a AWD vehicle, where all the wheels are connected to the drive train, proper transporting of the vehicle is absolutely essential to avoid damaging the drive system. Government and local laws must be followed.



Wheel dollies



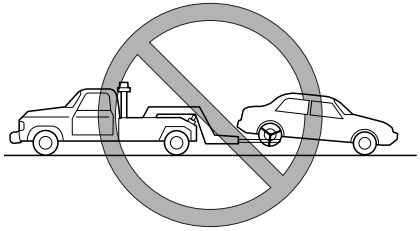
A towed 2WD vehicle should have its front wheels off the ground. If excessive damage or other conditions prevent this, use wheel dollies.

When towing a 2WD vehicle with the rear wheels on the ground, release the parking brake.

A towed AWD vehicle must have all its wheels off the ground.

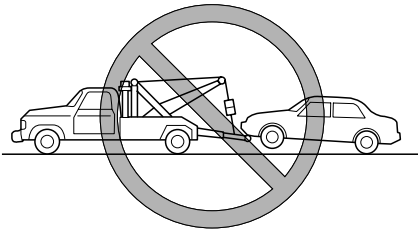
CAUTION

Don't tow the vehicle pointed 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.



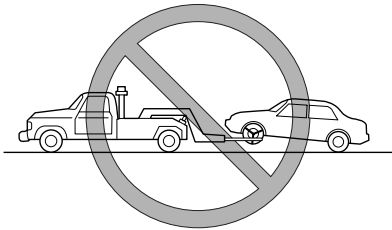
Emergency Towing



WARNING

Towing a AWD Vehicle:

Towing a AWD vehicle with either the front or rear wheels on the ground is dangerous as the drive train could be damaged, or the vehicle could trail away from the tow truck and cause an accident. Always tow a AWD vehicle with all four wheels off the ground. If the drive train has been damaged, transport the vehicle on a flat bed truck.



Tiedown Hooks

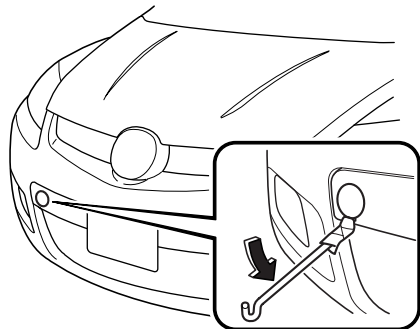


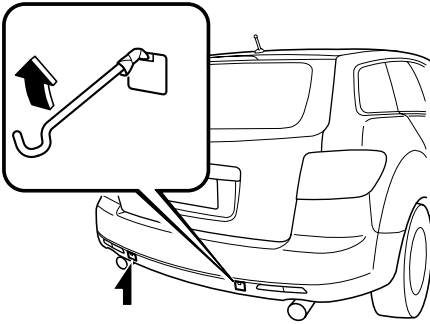
CAUTION

Don't use the tiedown hooks 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.

▼ Tiedown Hooks

1. Remove the tiedown eyelet, lug wrench, and jack lever from the trunk (page 7-3).
2. Wrap the jack lever with a soft cloth to prevent damage to the bumper and open the cap located on the front and rear bumper.

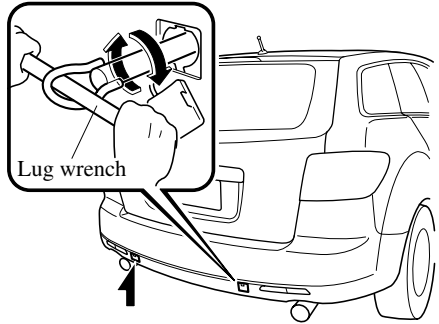
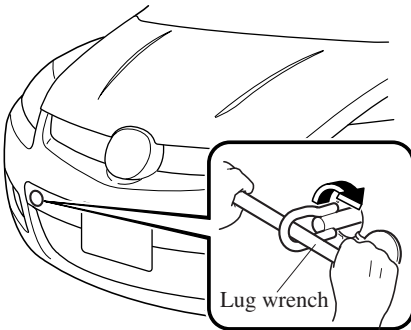




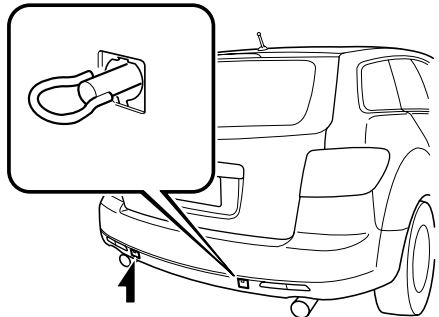
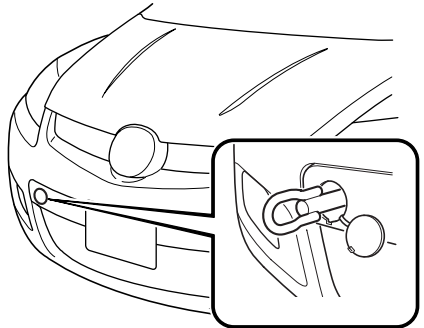
⚠ CAUTION

The cap cannot be completely removed. Do not use excessive force as it may damage the cap or scratch the painted bumper surface.

3. Securely install the tiedown eyelet using the lug wrench.



4. Hook the tying rope to the tiedown eyelet.



Emergency Towing



CAUTION

If the tiedown eyelet is not securely tightened, it may loosen or disengage from the bumper when tying down the vehicle. Make sure that the tiedown eyelet is securely tightened to the bumper.

Recreational Towing

An example of “recreational towing” is towing your vehicle behind a motorhome. The transaxle is not designed for towing this vehicle on all 4 wheels. When doing recreational towing refer to “Towing Description” (page 7-19) and “Tiedown Hooks” (page 7-20) and carefully follow the instructions.

8

Maintenance and Care

How to keep your Mazda in top condition.

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Introduction

Introduction

Be extremely careful and prevent injury to yourself and others or 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.

Claims against the warranty resulting from lack of maintenance, as opposed to defective materials or authorized Mazda workmanship, will not be honored.

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 (USA, Canada, and Puerto Rico)

Follow Schedule 1 if the vehicle is operated mainly where none of the following conditions apply.

If any do apply, follow Schedule 2 (Canada and 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 being 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 prescribed period, continue to follow the described maintenance at the recommended intervals.

Scheduled Maintenance

▼ Schedule 1

Maintenance Interval	Number of months or kilometers (miles), whichever comes first								
	Months	6	12	18	24	30	36	42	48
	×1000 km	12	24	36	48	60	72	84	96
	×1000 miles	7.5	15	22.5	30	37.5	45	52.5	60
ENGINE									
Engine valve clearance			Audible inspect every 120,000 km (75,000 miles), if noisy, adjust						
Drive belts (tension)							I		
Engine oil			R	R	R	R	R	R	R
Engine oil filter			R	R	R	R	R	R	R
COOLING SYSTEM									
Engine coolant	FL22 type *1	Replace at first 192,000 km (120,000 miles) or 10 years; after that, every 96,000 km (60,000 miles) or 5 years							
	Others	Replace at first 96,000 km (60,000 miles) or 4 years; after that, every 2 years							
FUEL SYSTEM									
Air filter							R		
Fuel lines and hoses *2						I			I
Hoses and tubes for emission *2									I
IGNITION SYSTEM									
Spark plugs			Replace every 120,000 km (75,000 miles)						
CHASSIS and BODY									
Brake lines, hoses and connections						I			I
Disc brakes				I		I		I	I
Tire (Rotation)			Rotate every 12,000 km (7,500 miles)						
Steering operation and linkages						I			I
Front and rear suspension and ball joints						I			I
Rear differential oil			*3*4						
Transfer oil			*4						
Driveshaft dust boots						I			I
Exhaust system and heat shields			Inspect every 72,000 km (45,000 miles) or 5 years						
All locks and hinges			L	L	L	L	L	L	L

Maintenance Interval	Number of months or kilometers (miles), whichever comes first								
	Months	6	12	18	24	30	36	42	48
	×1000 km	12	24	36	48	60	72	84	96
	×1000 miles	7.5	15	22.5	30	37.5	45	52.5	60
AIR CONDITIONER SYSTEM (if equipped)									
Cabin air filter		Replace every 40,000 km (25,000 miles) or 2 years							

Chart symbols:

I: Inspect and repair, clean, adjust, or replace if necessary.

R: Replace

L: Lubricate

Remarks:

- *1 Use FL22 type coolant in vehicles with the inscription “FL22” on the radiator cap itself or the surrounding area. Use FL22 when replacing the coolant.
- *2 According to state/provincial 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 mileage/kilometer period to ensure long-term reliability.
- *3 If the vehicle is operated primarily under any of the following conditions, replace the rear differential oil every 45,000 km (28,100 miles).
 - a) Towing a trailer or using a car-top carrier
 - b) Driving in dusty, sandy or wet condition
 - c) Extended periods of idling or low-speed operation
 - d) Repeated short trips of less than 16 km (10 miles)
- *4 If this component has been submerged in water, the oil should be replaced.

Scheduled Maintenance

▼ Schedule 2

Maintenance Interval	Number of months or kilometers (miles), whichever comes first													
	Months	4	8	12	16	20	24	28	32	36	40	44	48	
	×1000 km	8	16	24	32	40	48	56	64	72	80	88	96	
	×1000 miles	5	10	15	20	25	30	35	40	45	50	55	60	
ENGINE														
Engine valve clearance		Audible inspect every 120,000 km (75,000 miles), if noisy, adjust												
Drive belts (tension)								I						
Engine oil	Puerto Rico	Replace every 5,000 km (3,000 miles) or 3 months												
	Others	R	R	R	R	R	R	R	R	R	R	R	R	R
Engine oil filter		R	R	R	R	R	R	R	R	R	R	R	R	R
COOLING SYSTEM														
Engine coolant	FL22 type *1	Replace at first 192,000 km (120,000 miles) or 10 years ; after that, every 96,000 km (60,000 miles) or 5 years												
	Others	Replace at first 96,000 km (60,000 miles) or 4 years; after that, every 2 years												
Engine coolant level		I	I	I	I	I	I	I	I	I	I	I	I	I
FUEL SYSTEM														
Air filter	Puerto Rico							R						R
	Others								R					
Fuel lines and hoses *2								I						I
Hoses and tubes for emission *2														I
IGNITION SYSTEM														
Spark plugs	USA	Replace every 96,000 km (60,000 miles)												
	Others *3	Replace every 120,000 km (75,000 miles)												
ELECTRICAL SYSTEM														
Function of all lights		I	I	I	I	I	I	I	I	I	I	I	I	I

Maintenance and Care

Scheduled Maintenance

Maintenance Interval	Number of months or kilometers (miles), whichever comes first												
	Months	4	8	12	16	20	24	28	32	36	40	44	48
	×1000 km	8	16	24	32	40	48	56	64	72	80	88	96
	×1000 miles	5	10	15	20	25	30	35	40	45	50	55	60
CHASSIS and BODY													
Brake lines, hoses and connections							I						I
Brake fluid level	I	I	I	I	I	I	I	I	I	I	I	I	I
Disc brakes			I				I			I			I
Tire (Rotation)	Rotate every 8,000 km (5,000 miles)												
Tire inflation pressure and tire wear	I	I	I	I	I	I	I	I	I	I	I	I	I
Steering operation and linkages							I						I
Power steering fluid level	I	I	I	I	I	I	I	I	I	I	I	I	I
Front and rear suspension and ball joints							I						I
Rear differential oil	*4*5												
Transfer oil	*5												
Driveshaft dust boots							I						I
Exhaust system and heat shields	Inspect every 72,000 km (45,000 miles) or 5 years												
All locks and hinges	L	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	I
AIR CONDITIONER SYSTEM (if equipped)													
Cabin air filter	Replace every 40,000 km (25,000 miles) or 2 years												

Chart symbols:

I: Inspect and repair, clean, adjust, or replace if necessary.

R: Replace

L: Lubricate

Remarks:

- *1 Use FL22 type coolant in vehicles with the inscription “FL22” on the radiator cap itself or the surrounding area. Use FL22 when replacing the coolant.
- *2 According to state/provincial 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 mileage/kilometer period to ensure long-term reliability.
- *3 If the vehicle is operated primarily under any of the following conditions, replace the spark plugs every 96,000 km (60,000 miles) or shorter.
 - a) Repeated short-distance driving
 - b) Extended periods of idling or low-speed operation
 - c) Driving for long periods in cold temperatures or extremely humid climates
- *4 If the vehicle is operated primarily under any of the following conditions, replace the rear differential oil every 45,000 km (28,100 miles).
 - a) Towing a trailer or using a car-top carrier
 - b) Driving in dusty, sandy or wet condition
 - c) Extended periods of idling or low-speed operation
 - d) Repeated short trips of less than 16 km (10 miles)
- *5 If this component has been submerged in water, the oil should be replaced.

Scheduled Maintenance

Scheduled Maintenance (Mexico)

Follow Schedule 1 if the vehicle is operated mainly where none of the following conditions apply.

If any do apply, 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 being 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
- Driving in extremely hot conditions
- Driving in mountainous conditions continually

NOTE
After the prescribed period, continue to follow the described maintenance at the recommended intervals.

▼ **Schedule 1**

Maintenance Interval		Number of months or kilometers, whichever comes first												
		Months	6	12	18	24	30	36	42	48	54	60	66	72
		×1000 km	10	20	30	40	50	60	70	80	90	100	110	120
ENGINE														
Engine valve clearance		Audible inspect every 120,000 km, if noisy, adjust												
Drive belts					I				I				I	
Engine oil		R	R	R	R	R	R	R	R	R	R	R	R	
Engine oil filter		R	R	R	R	R	R	R	R	R	R	R	R	
COOLING SYSTEM														
Cooling system					I				I				I	
Engine coolant	FL22 type*1	Replace at first 190,000 km or 10 years; after that, every 60,000 km or 3 years												
	Others	Replace every 40,000 km or 2 years												
FUEL SYSTEM														
Air filter			R		R		R		R		R		R	
Fuel lines and hoses					I*2				I*2				I	
Hoses and tubes for emission					I*2				I*2				I	
Fuel filter					R				R				R	
IGNITION SYSTEM														
Spark plugs		Replace every 60,000 km												
CHASSIS and BODY														
Brake lines, hoses and connections			I		I		I		I		I		I	
Brake fluid level		I	I	I		I	I	I		I	I	I		
Brake fluid					R				R				R	
Disc brakes		I	I	I	I	I	I	I	I	I	I	I	I	
Tire (Rotation)		Rotate every 10,000 km												
Tire inflation pressure and tire wear		I	I	I	I	I	I	I	I	I	I	I	I	
Steering operation and linkages		I	I	I	I	I	I	I	I	I	I	I	I	
Power steering fluid level		I	I	I	I	I	I	I	I	I	I	I	I	
Front and rear suspension, ball joints and wheel bearing axial play			I		I		I		I		I		I	
Rear differential oil		*3*4												
Transfer oil		*4												
Driveshaft dust boots			I		I		I		I		I		I	
Bolts and nuts on chassis and body			T		T		T		T		T		T	
Exhaust system and heat shields			I		I		I		I		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	

Scheduled Maintenance

Maintenance Interval	Number of months or kilometers, whichever comes first												
	Months	6	12	18	24	30	36	42	48	54	60	66	72
	×1000 km	10	20	30	40	50	60	70	80	90	100	110	120
AIR CONDITIONER SYSTEM (if installed)													
Cabin air filter					R				R				R

Chart symbols:

- I: Inspect and repair, clean, adjust, or replace if necessary.
R: Replace
L: Lubricate
T: Tighten

Remarks:

- *1 Use FL22 type coolant in vehicles with the inscription “FL22” on the radiator cap itself or the surrounding area. Use FL22 when replacing the coolant.
- *2 According to state/provincial 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 kilometer period to ensure long-term reliability.
- *3 If the vehicle is operated primarily under any of the following conditions, replace the rear differential oil every 40,000 km.
 - a) Towing a trailer or using a car-top carrier
 - b) Driving in dusty, sandy or wet condition
 - c) Extended periods of idling or low speed operation
 - d) Repeated short trips of less than 16 km
- *4 If this component has been submerged in water, the oil should be replaced.

▼ **Schedule 2**

Maintenance Interval		Number of months or kilometers, whichever comes first												
		Months	3	6	9	12	15	18	21	24	27	30	33	36
		×1000 km	5	10	15	20	25	30	35	40	45	50	55	60
ENGINE														
Engine valve clearance			Audible inspect every 120,000 km, if noisy, adjust											
Drive belts										I				
Engine oil			R	R	R	R	R	R	R	R	R	R	R	R
Engine oil filter			R	R	R	R	R	R	R	R	R	R	R	R
COOLING SYSTEM														
Cooling system										I				
Engine coolant	FL22 type* ¹	Replace at first 190,000 km or 10 years; after that, every 60,000 km or 3 years												
	Others	Replace every 40,000 km or 2 years												
Engine coolant level			I	I	I	I	I	I	I	I	I	I	I	I
FUEL SYSTEM														
Air filter				C		R		C		R		C		R
Fuel lines and hoses										I* ²				
Hoses and tubes for emission										I* ²				
Fuel filter										R				
IGNITION SYSTEM														
Spark plugs			Replace every 60,000 km											
ELECTRICAL SYSTEM														
Function of all lights			I	I	I	I	I	I	I	I	I	I	I	I

Scheduled Maintenance

Maintenance Interval	Number of months or kilometers, whichever comes first												
	Months	3	6	9	12	15	18	21	24	27	30	33	36
	×1000 km	5	10	15	20	25	30	35	40	45	50	55	60
CHASSIS and BODY													
Brake lines, hoses and connections					I				I				I
Brake fluid level		I			I		I				I		I
Brake fluid									R				
Disc brakes		I			I		I		I		I		I
Tire (Rotation)	Rotate every 10,000 km												
Tire inflation pressure and tire wear		I			I		I		I		I		I
Steering operation and linkages		I			I		I		I		I		I
Power steering fluid level		I			I		I		I		I		I
Front and rear suspension, ball joints and wheel bearing axial play					I				I				I
Rear differential oil	*3*4												
Transfer oil	*4												
Driveshaft dust boots					I				I				I
Bolts and nuts on chassis and body					T				T				T
Exhaust system and heat shields					I				I				I
All locks and hinges		L			L		L		L		L		L
Washer fluid level		I			I		I		I		I		I
AIR CONDITIONER SYSTEM (if installed)													
Cabin air filter					R				R				R

Chart symbols:

- I: Inspect and repair, clean, adjust, or replace if necessary.
R: Replace
L: Lubricate
C: Clean
T: Tighten

Remarks:

- *1 Use FL22 type coolant in vehicles with the inscription “FL22” on the radiator cap itself or the surrounding area. Use FL22 when replacing the coolant.
- *2 According to state/provincial 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 kilometer period to ensure long-term reliability.
- *3 If the vehicle is operated primarily under any of the following conditions, replace the rear differential oil every 40,000 km.
- a) Towing a trailer or using a car-top carrier
 - b) Driving in dusty, sandy or wet condition
 - c) Extended periods of idling or low speed operation
 - d) Repeated short trips of less than 16 km
- *4 If this component has been submerged in water, the oil should be replaced.

Maintenance and Care

Scheduled Maintenance

(Cont.)

Maintenance Interval		Number of months or kilometers, whichever comes first													
		Months	39	42	45	48	51	54	57	60	63	66	69	72	
		×1000 km	65	70	75	80	85	90	95	100	105	110	115	120	
ENGINE															
Engine valve clearance				Audible inspect every 120,000 km, if noisy, adjust											
Drive belts							I								I
Engine oil				R	R	R	R	R	R	R	R	R	R	R	R
Engine oil filter				R	R	R	R	R	R	R	R	R	R	R	R
COOLING SYSTEM															
Cooling system							I								I
Engine coolant		FL22 type* ¹	Replace at first 190,000 km or 10 years; after that, every 60,000 km or 3 years												
		Others	Replace every 40,000 km or 2 years												
Engine coolant level				I	I	I	I	I	I	I	I	I	I	I	I
FUEL SYSTEM															
Air filter					C		R		C		R		C		R
Fuel lines and hoses							I* ²								I
Hoses and tubes for emission							I* ²								I
Fuel filter							R								R
IGNITION SYSTEM															
Spark plugs				Replace every 60,000 km											
ELECTRICAL SYSTEM															
Function of all lights				I	I	I	I	I	I	I	I	I	I	I	I

Scheduled Maintenance

Maintenance Interval	Number of months or kilometers, whichever comes first													
	Months	39	42	45	48	51	54	57	60	63	66	69	72	
	×1000 km	65	70	75	80	85	90	95	100	105	110	115	120	
CHASSIS and BODY														
Brake lines, hoses and connections					I				I					I
Brake fluid level			I				I		I		I			
Brake fluid					R									R
Disc brakes			I		I		I		I		I			I
Tire (Rotation)	Rotate every 10,000 km													
Tire inflation pressure and tire wear			I		I		I		I		I			I
Steering operation and linkages			I		I		I		I		I			I
Power steering fluid level			I		I		I		I		I			I
Front and rear suspension, ball joints and wheel bearing axial play					I				I					I
Rear differential oil	*3*4													
Transfer oil	*4													
Driveshaft dust boots					I				I					I
Bolts and nuts on chassis and body					T				T					T
Exhaust system and heat shields					I				I					I
All locks and hinges			L		L		L		L		L			L
Washer fluid level			I		I		I		I		I			I
AIR CONDITIONER SYSTEM (if installed)														
Cabin air filter					R				R					R

Chart symbols:

- I: Inspect and repair, clean, adjust, or replace if necessary.
R: Replace
L: Lubricate
C: Clean
T: Tighten

Remarks:

- *1 Use FL22 type coolant in vehicles with the inscription “FL22” on the radiator cap itself or the surrounding area. Use FL22 when replacing the coolant.
- *2 According to state/provincial 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 kilometer period to ensure long-term reliability.
- *3 If the vehicle is operated primarily under any of the following conditions, replace the rear differential oil every 40,000 km.
- a) Towing a trailer or using a car-top carrier
 - b) Driving in dusty, sandy or wet condition
 - c) Extended periods of idling or low speed operation
 - d) Repeated short trips of less than 16 km
- *4 If this component has been submerged in water, the oil should be replaced.

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 fluid level (page 8-22)
- Engine coolant level (page 8-20)
- Engine oil level (page 8-19)
- Washer fluid level (page 8-26)

▼ At Least Monthly

Tire inflation pressures (page 8-34)

▼ At Least Twice a Year (For Example, Every Spring and Fall)

- Automatic transaxle fluid level (page 8-24)
- Power steering fluid level (page 8-23)

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.

- Engine coolant (page 8-20)
- Engine oil (page 8-18)

Owner Maintenance

Owner Maintenance Precautions

Improper or incomplete service may result in problems. This section gives instructions only for items that are easy to perform.

As explained in the Introduction (page 8-2), 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.

There are strict environmental laws regarding the disposal of waste oil and fluids. Please dispose of your waste properly and with due regard to the environment.

We recommend that you entrust the oil and fluid changes of your vehicle to an Authorized Mazda Dealer.

WARNING

Do not perform maintenance work if you lack sufficient knowledge and experience or the proper tools and equipment to do the work. Have maintenance work done by a qualified technician:

Performing maintenance work on a vehicle is dangerous if not done properly. You can be seriously injured while performing some maintenance procedures.

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 which may turn on unexpectedly:

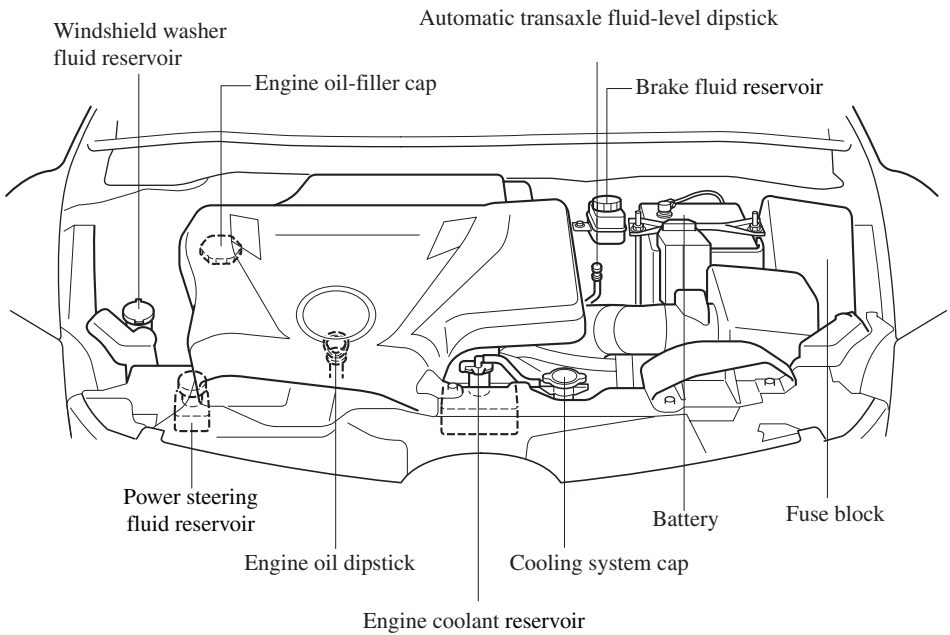
Working under the hood with the engine running is dangerous. It becomes even more dangerous when you wear jewelry or loose clothing.

Either can become entangled in moving parts and result in injury.

Turn off the ignition switch and make sure the fan is not running before attempting to work near the cooling fan:

Working near the cooling fan when it is running is dangerous. The fan could continue running indefinitely even if the engine has stopped and the engine compartment temperature is high. You could be hit by the fan and seriously injured.

Engine Compartment Overview



Owner Maintenance

Engine Oil

NOTE

Changing the engine oil should be done by an Authorized Mazda Dealer.

▼ Recommended Oil

Use SAE 5W-30 engine oil.

Oil container labels provide important information.

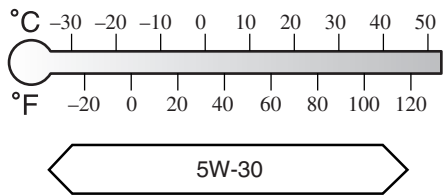
A chief contribution this type of oil makes to fuel economy is reducing the amount of fuel necessary to overcome engine friction.

U.S.A. and CANADA



(ILSAC)

Only use oils “Certified For Gasoline Engines” by the American Petroleum Institute (API). An oil with this trademark symbol conforms to the current engine and emission system protection standards and fuel economy requirements of the International Lubricant Standardization and Approval Committee (ILSAC), comprised of U.S. and Japanese automobile manufacturers.

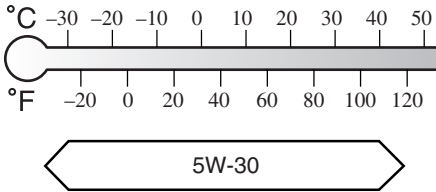


Except U.S.A. and CANADA



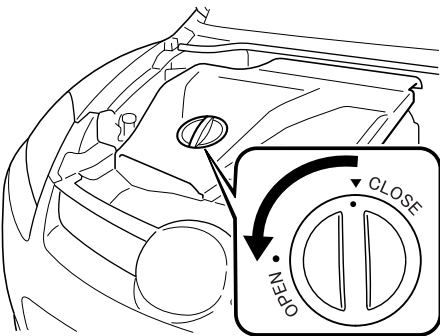
(ILSAC)

The quality designation SL, or ILSAC must be on the label.

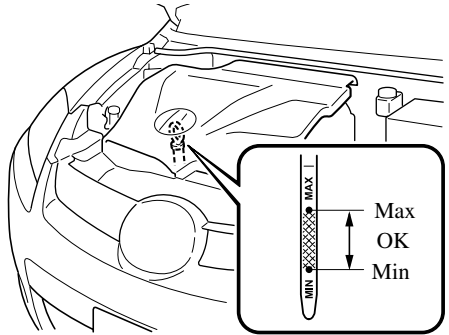


▼ Inspecting Engine Oil Level

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 at least 5 minutes for the oil to return to the oil pan.
4. Open the cap.



5. Pull out the dipstick, wipe it clean, and reinsert it fully.

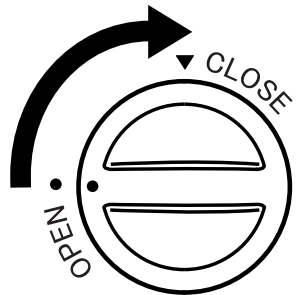


6. Pull it out again and examine the level. It's OK between MIN and MAX. But if it's near or below MIN, add enough oil to bring the level to MAX.

⚠ CAUTION

Don't add engine oil over MAX. This may cause engine damage.

7. Make sure the O-ring on the dipstick is positioned properly before reinserting the dipstick.
8. Close the cap.



Owner Maintenance

NOTE

When closing the engine oil cap, place the cap with the (●) mark aligned at the OPEN (●) position and then turn the cap to the CLOSE (▼) position.

Engine Coolant

▼ Inspecting Coolant Level

WARNING

Do not use a match or live flame in the engine compartment. DO NOT ADD COOLANT WHEN THE ENGINE IS HOT:

A hot engine is dangerous. If the engine has been running, parts of the engine compartment can become very hot. You could be burned. Carefully inspect the engine coolant in the coolant reservoir, but do not open it.



Turn off the ignition switch and make sure the fan is not running before attempting to work near the cooling fan:

Working near the cooling fan when it is running is dangerous. The fan could continue running indefinitely even if the engine has stopped and the engine compartment temperature is high. You could be hit by the fan and seriously injured.



Do not remove either cooling system cap when the engine and radiator are hot:

When the engine and radiator are hot, scalding coolant and steam may shoot out under pressure and cause serious injury.

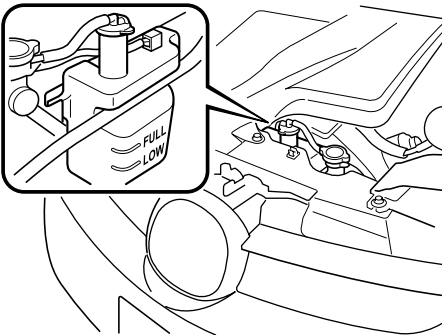
NOTE

Changing the coolant should be done by an Authorized Mazda Dealer.

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 if spilled.
- 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** coolants Containing Alcohol, methanol, Borate or Silicate.
These coolants could damage the cooling system.
- **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.

Owner Maintenance

NOTE

If the “FL22” mark is shown on or near the cooling system cap, use FL22 type engine coolant. If engine coolant other than FL22 type is used, the engine coolant must be replaced earlier than the specified replacement interval indicated in the scheduled maintenance (page 8-3).

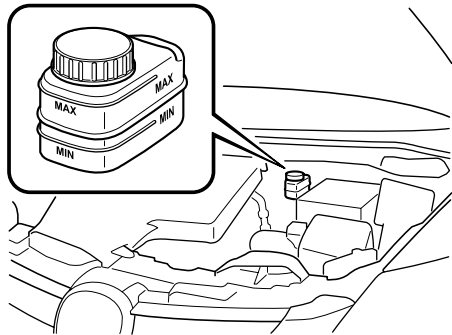


If the coolant reservoir is empty or new coolant is required frequently, consult an Authorized Mazda Dealer.

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 are 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 (page 10-4) 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

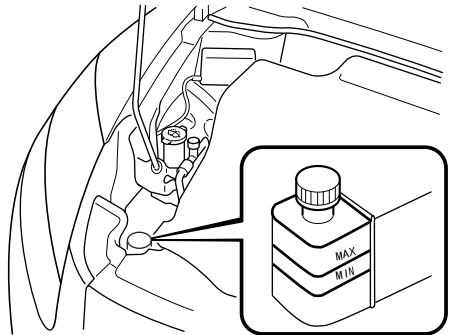
CAUTION

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 (page 10-4).

Inspect the fluid level at each engine oil change. Add fluid if necessary; it does not require periodic changing.



The level must be kept between the MAX and MIN marks.
Visually examine the lines and hoses for leaks and damage.

1. Park on a level surface, well off the right-of-way, and set the parking brake firmly.
2. Turn off the engine and allow it to cool.

Owner Maintenance

- 3. Remove the filler cap and attached dipstick.
- 4. Wipe them clean and put them back.
- 5. Remove again and inspect the level.
- 6. It must be between MAX and MIN.
Add fluid if necessary.

Don't overfill.

If new fluid is required frequently, consult an Authorized Mazda Dealer.

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.

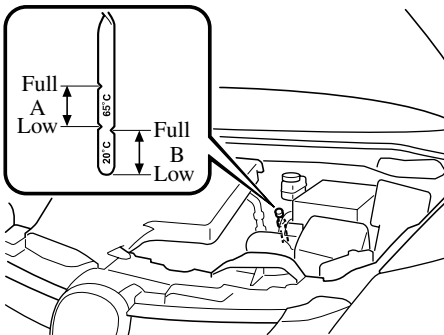
 CAUTION
• Low fluid level causes transaxle slippage. Overfilling can cause foaming, loss of fluid, and transaxle malfunction. • Use specified fluid (page 10-4). A nonspecified fluid could result in transaxle malfunction and failure.

- 1. Park on a level surface and set the parking brake firmly.
- 2. Start the engine and depress the brake pedal.
- 3. Move the shift lever through all ranges, then 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 fluid level should be close to, but not above, the bottom notch on the dipstick.

⚠ CAUTION

- 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 the fluid on both sides of the dipstick in a well lit area for an accurate reading.

Owner Maintenance

Washer Fluid

▼ Inspecting Washer Fluid Level

 WARNING

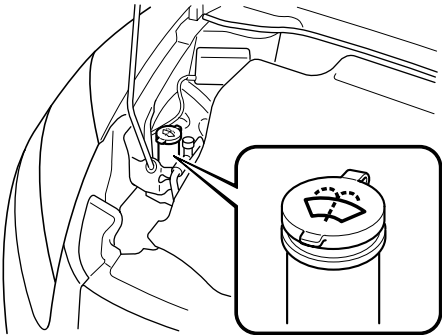
Use only windshield washer fluid or plain water in the reservoir:
Using radiator antifreeze as washer fluid is dangerous. If sprayed on the windshield, it will dirty the windshield, affect your visibility, and could result in an accident.

Using Washer Fluid Without Anti-freeze Protection in Cold Weather:
Operating your vehicle in temperatures below 4 degrees C (40 degrees F) using washer fluid without anti-freeze protection is dangerous as it could cause impaired windshield vision and result in an accident. In cold weather, always use washer fluid with anti-freeze protection.

NOTE

State or local regulations may restrict the use of volatile organic compounds (VOCs), which are commonly used as anti-freeze agents in washer fluid. A washer fluid with limited VOC content should be used only if it provides adequate freeze resistance for all regions and climates in which the vehicle will be operated.

Inspect fluid level in the washer fluid reservoir; add fluid if necessary.



Use plain water if washer fluid is unavailable.
But use only washer fluid in cold weather to prevent it from freezing.

NOTE

Front and rear washer fluid is supplied from the same 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 hood's secondary latch keeps the hood from opening when the primary latch is released.

Wiper Blades

CAUTION

- Hot waxes applied by automatic car washers have been known to affect the wiper's ability to clean windows.
- To prevent damage to the wiper blades, don't use gasoline, kerosene, paint thinner, or other solvents on or near them.

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.

▼ **Replacing Windshield Wiper Blades**

When the wipers no longer clean well, the blades are probably worn or cracked. Replace them.

CAUTION

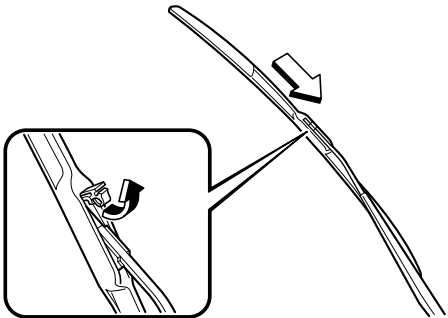
To prevent damage to the wiper arms and other components, don't try to sweep the wiper arm by hand.

Owner Maintenance

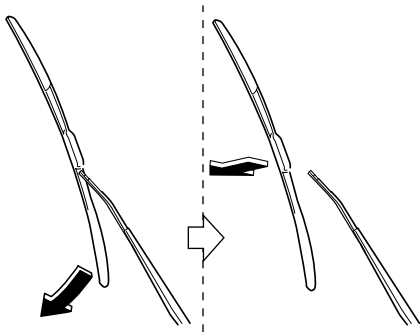
NOTE

To prevent damage to the wiper arm blades when raising both the driver and passenger side wiper arms, raise the driver side wiper arm first. Conversely, when setting down the wiper arms, set the passenger side wiper arm down first.

- 1. Raise the wiper arm.
- 2. Open the clip and insert the blade assembly.



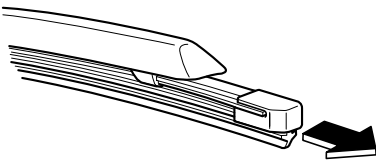
- 3. Tilt the blade assembly and remove it from the arm.



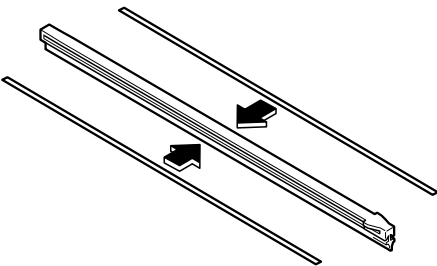
 CAUTION

To prevent damage to the windshield let the wiper arm down easily, don't let it slap down on the windshield.

- 4. Pull down the blade rubber and slide it out of blade holder.



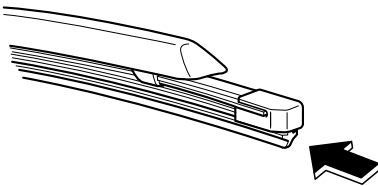
- 5. Remove the metal stiffeners from the blade rubber and install them in new blades.



⚠ CAUTION

- Don't bend or discard 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.

6. Carefully insert the new blade rubber. Then install the blade assembly in the reverse order of removal.



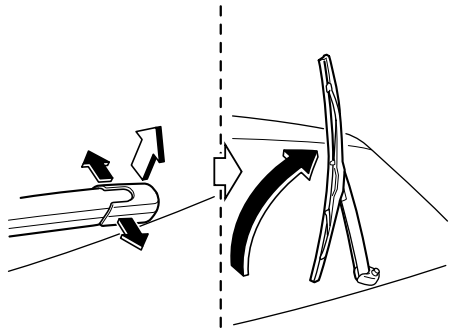
▼ Replacing Rear Window Wiper Blade

When the wiper no longer cleans well, the blade is probably worn or cracked. Replace it.

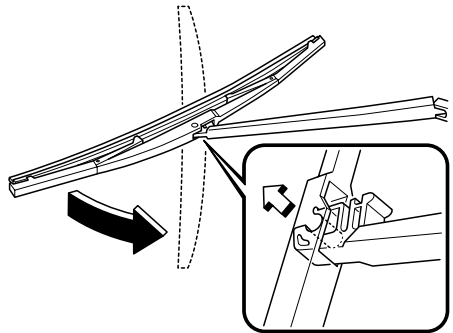
⚠ CAUTION

To prevent damage to the wiper arm and other components, don't try to sweep the wiper arm by hand.

1. Remove the cover and raise the wiper arm.



2. Rotate the wiper blade to the right until it unlocks, then remove the blade.

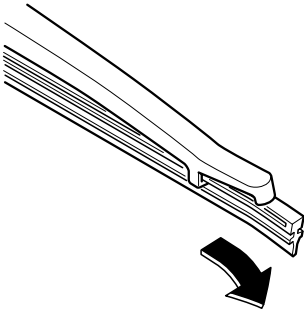


⚠ CAUTION

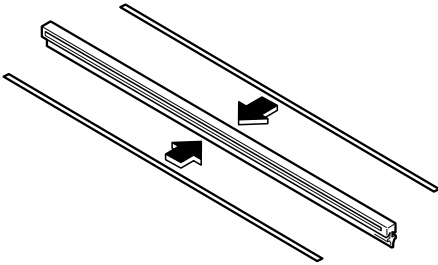
To prevent damage to the rear window let the wiper arm down easily, don't let it slap down on the rear window.

Owner Maintenance

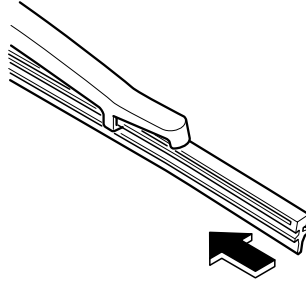
3. Pull down the blade rubber and slide it out of the blade holder.



4. Remove the metal stiffeners from each blade rubber and install them in the new blade.



5. Carefully insert the new blade rubber. Then install the blade assembly in the reverse order of removal.



CAUTION

Don't bend or discard the stiffeners.
You need to use them again.

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.



Follow These Precautions Carefully:

To ensure safe and correct handling of the battery, read the following precautions carefully before using the battery or inspecting it.



Eye Protection:

*Working without eye protection is dangerous. Battery fluid contains **SULFURIC ACID** which could cause blindness if splashed into your eyes. Also, hydrogen gas produced during normal battery operation, could ignite and cause the battery to explode. Always wear eye protection when working near the battery.*



Spilled Battery Fluid:

*Spilled battery fluid is dangerous. Battery fluid contains **SULFURIC ACID** which could cause serious injuries if it gets in eyes, skin or clothing. If this happens, immediately flush your eyes with water for 15 minutes or wash your skin thoroughly and get medical attention. Wear eye protection and protective gloves to prevent contact with battery fluid.*



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.

Owner Maintenance

WARNING



Keep Flames Away:

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. When working near a battery, do not allow metal tools to contact the positive (+) or negative (–) terminal of the battery. Do not allow the positive (+) terminal to contact the vehicle body.

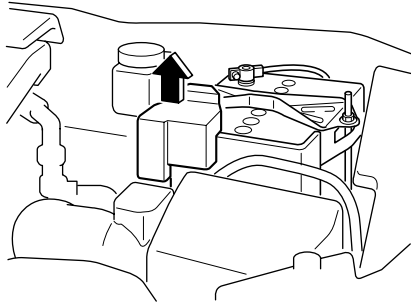


Battery-Related Explosion:

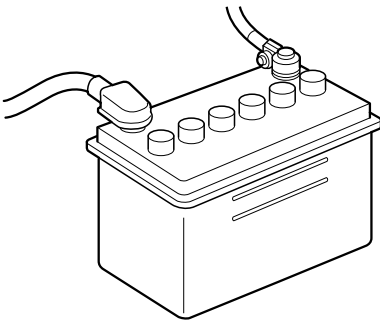
Flames and sparks near open battery cells are dangerous. Hydrogen gas, produced during normal battery operation, could ignite and cause the battery to explode. An exploding battery can cause serious burns and injuries. Keep all flames, including cigarettes, and sparks away from open battery cells.

NOTE

Remove the battery cover before performing battery maintenance.



- If the vehicle will not be used for an extended time, disconnect the battery cables.

▼ Battery Maintenance

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.

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 for the limited use of 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 10-6) 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

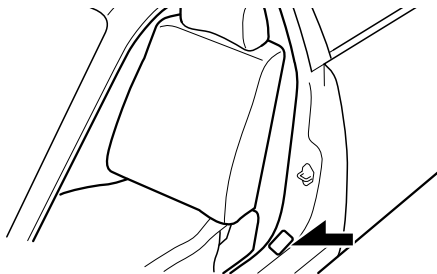
Incorrect Tire Inflation:

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 10-6).

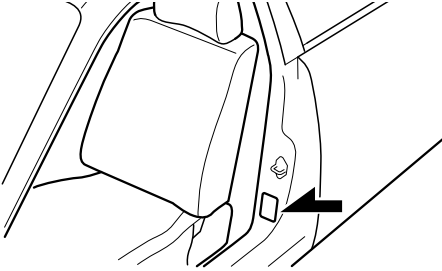
The Tire Pressure Monitoring System* does not alleviate the need to check the tire condition every day, including whether the tires all look inflated properly. Inspect all tire pressure monthly (including the spare) when the tires are cold. Maintain recommended pressures for the best ride, top handling, and minimum tire wear.

When checking the tire pressures, use of a digital tire pressure gauge is recommended.

Except Canada (Tire pressure label)



Canada (Motor vehicle safety standard label)



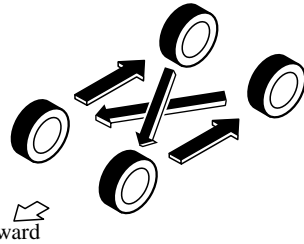
Refer to the specification charts (page 10-6).

NOTE

- Always check tire pressure when tires are cold.
- Warm tires normally exceed recommended pressures. Don't release air from warm tires to adjust the pressure.
- Underinflation can cause reduced fuel economy, uneven and accelerated tire wear, 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, uneven and accelerated tire wear, 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 if irregular wear develops. According to the scheduled maintenance charts. Refer to Scheduled Maintenance on page 8-3. During rotation, inspect them for correct balance.



Do not include (TEMPORARY USE ONLY) spare tire in rotation.

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, inflate all tire pressures to specification (page 10-6) and inspect the lug nuts for tightness.

⚠ CAUTION

Rotate unidirectional tires and radial tires that have an asymmetrical tread pattern or studs only from front to rear, not from side to side. Tire performance will be weakened if rotated from side to side.

Owner Maintenance

⚠ CAUTION

- Limited-Slip Differential system; don't use the following:
- Tires not of the designated size
 - Tires of different sizes or types at the same time
 - Tires not sufficiently inflated

If these instructions aren't followed, the rotation of the left and right wheels will be different and will thus apply a constant load on the limited-slip differential. This will cause a malfunction.

NOTE

(With Tire Pressure Monitoring System)

- When tires with steel wire reinforcement in the sidewalls are used, the system may not function correctly even with a genuine wheel. Refer to System Error Activation on page 5-28.
- Be sure to install the tire pressure sensors whenever tires or wheels are replaced. Refer to Tires and Wheels on page 5-29.

▼ Replacing a Tire

⚠ WARNING

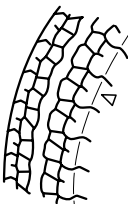
Worn Tires:
Driving with worn tires is dangerous. Reduced braking, steering, and traction could result in an accident. Always use tires that are in good condition.

⚠ CAUTION

(With Tire Pressure Monitoring System)

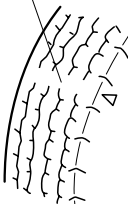
When replacing/repairing the tires or wheels or both, have the work done by an Authorized Mazda Dealer, or the tire pressure sensors may be damaged.

If a tire wears evenly, a wear indicator will appear as a solid band across the tread. Replace the tire when this happens.



New tread

Tread wear indicator



Worn tread

You should replace it before the band is across the entire tread.

NOTE

Tires degrade over time, even when they are not being used on the road. It is recommended that tires generally be replaced when they are 6 years or older. Heat caused by hot climates or frequent high loading conditions can accelerate the aging process. You should replace the spare tire when you replace the other road tires due to the aging of the spare tire. Regarding the manufacturing week and year is indicated with 4 digit. Refer to The tire labeling on page 9-22.

▼ **Temporary Spare Tire**

Inspect the temporary spare tire at least monthly to make sure it's properly inflated and stored.

NOTE

The temporary spare tire condition gradually deteriorates even if it has not been used.

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 spare tire only until the conventional tire is repaired, which should be as soon as possible.

(Except Mexico)

Maintain its pressure at 420 kPa (4.2 kgf/cm² or bar, 60 psi).

(Mexico)

Maintain its pressure at 250 kPa (2.5 kgf/cm² or bar, 36 psi).

 CAUTION

- Don't use your temporary spare tire rim with a snow tire or a conventional tire. Neither will properly fit and could damage both tire and rim.
- The temporary spare tire has a tread life of less than 5,000 km (3,000 miles). The tread life may be shorter depending on driving conditions.
- The temporary spare tire is for limited use, however, if the tread wear solid-band indicator appears, replace the tire with the same type of temporary spare (page 8-36).

NOTE

Tires degrade over time, even when they are not being used on the road. It is recommended that tires generally be replaced when they are 6 years or older. Heat caused by hot climates or frequent high loading conditions can accelerate the aging process. You should replace the spare tire when you replace the other road tires due to the aging of the spare tire. Regarding the manufacturing week and year is indicated with 4 digit. Refer to The tire labeling on page 9-22.

Owner Maintenance

▼ Replacing a Wheel

 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
 - Tire Pressure Monitoring System
 - Limited-Slip Differential System
- **(With Tire Pressure Monitoring System)**
 - When replacing/repairing the tires or wheels or both, have the work done by an Authorized Mazda Dealer, or the tire pressure sensors may be damaged.
 - The wheels equipped on your Mazda are specially designed for installation of the tire pressure sensors. Do not use non-genuine wheels, otherwise it may not be possible to install the tire pressure sensors.

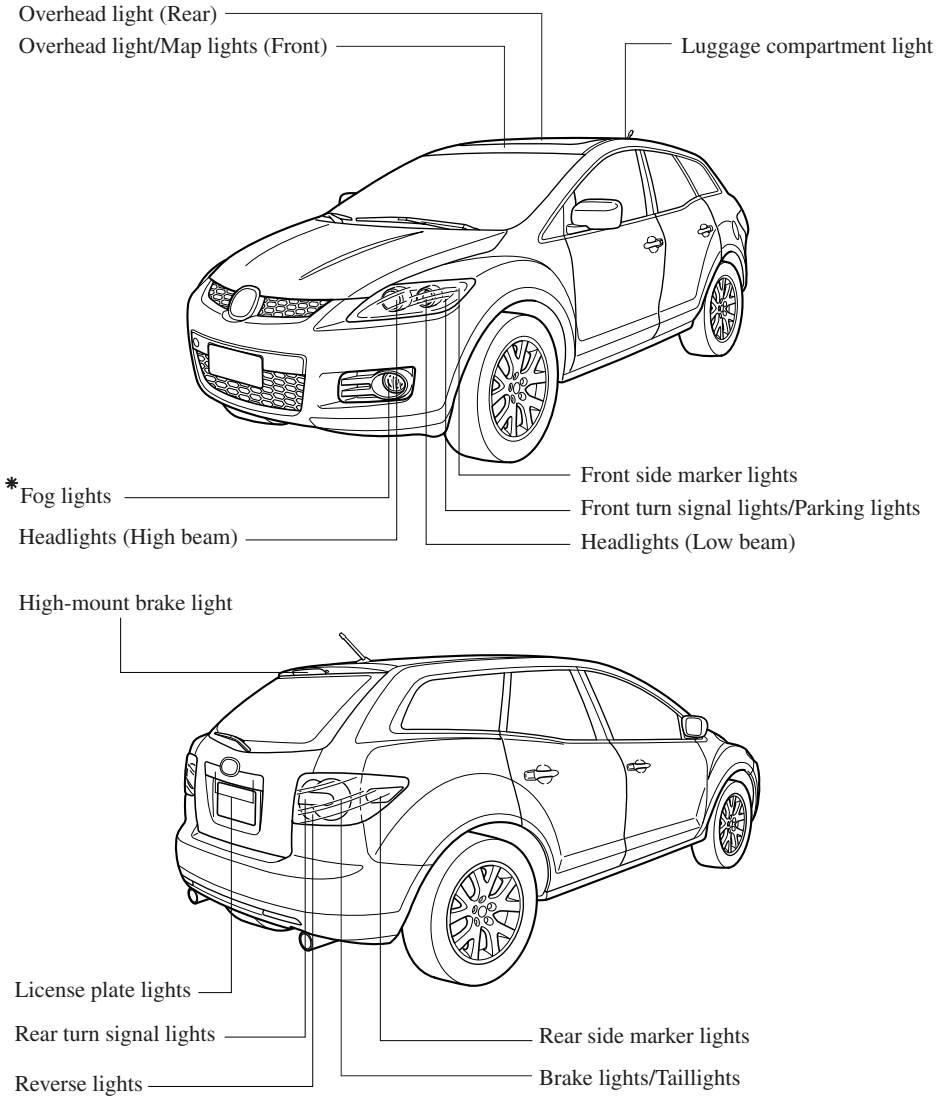
NOTE

Be sure to install the tire pressure sensors whenever tires or wheels are replaced. Refer to Tires and Wheels on page 5-29.

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.

Light Bulbs



*Some models.

Owner Maintenance



WARNING

Do not replace the xenon fusion bulbs yourself:

Replacing the xenon fusion bulbs yourself is dangerous. Because the xenon fusion bulbs require high voltage, you could receive an electric shock if the bulbs are handled incorrectly. Consult an Authorized Mazda Dealer when the replacement is necessary.

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.

Children and Halogen Bulbs:

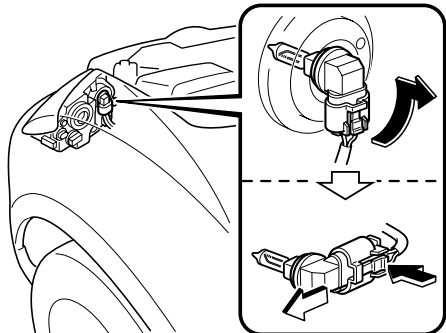
Playing with a halogen bulb is dangerous. Serious injuries could be caused by dropping a halogen bulb or breaking it some other way. Always keep halogen bulbs out of the reach of children.

▼ Replacing Exterior Light Bulbs

Replacing a headlight bulb

High-beam bulb

1. Make sure the ignition switch is turned off and the headlight switch is off.
2. Lift the hood.
3. Turn the socket and bulb assembly counterclockwise and remove it. Carefully remove the High-beam bulb from its socket in the reflector by gently pulling it straight backward out of the socket.
4. Disconnect the bulb from the electrical connector by pressing the tab on the connector with your finger and pulling the bulb upward.



5. Install the new bulb in the reverse order of removal.

NOTE

- To replace the bulb, contact an Authorized Mazda Dealer.
- If the halogen bulb is accidentally touched, it should be cleaned with rubbing alcohol before being used.
- Use the protective cover and carton of the replacement bulb to dispose of the old bulb promptly out of the reach of children.

Low-beam bulb

(Xenon fusion bulb)

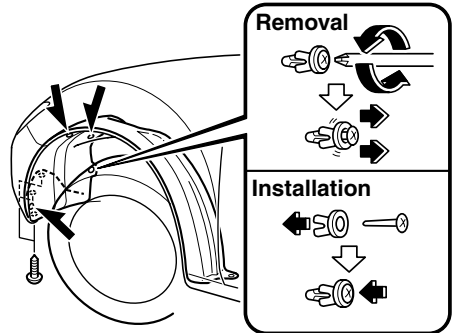
You cannot replace the low beam bulbs by yourself.

The bulbs must be replaced at an Authorized Mazda Dealer.

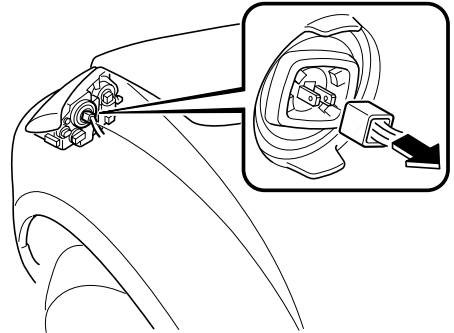
(Halogen bulbs)

1. Make sure the headlight switch is off.
2. If you are changing the right Low-beam bulb, start the engine, turn the steering wheel all the way to the right, and turn off engine. If you are changing the left Low-beam bulb, turn the steering wheel to the left.

3. Turn the screws and the center section of the plastic retainers counterclockwise and remove them, then partially peel back the mudguard.



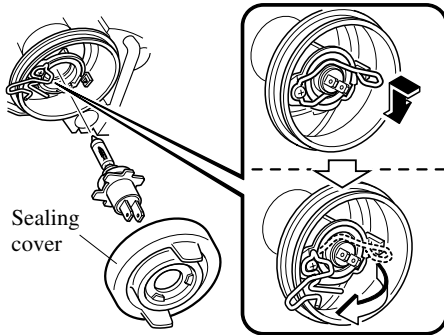
4. Detach the electrical connector from the bulb by pulling it to the rear.



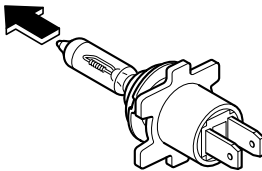
5. Pull off the sealing cover.
6. Unhook the bulb retaining spring.

Owner Maintenance

7. Swing the retaining spring out and away to free the bulb.



8. Carefully remove the bulb from the socket by pulling it straight back.



9. Replace the bulb.

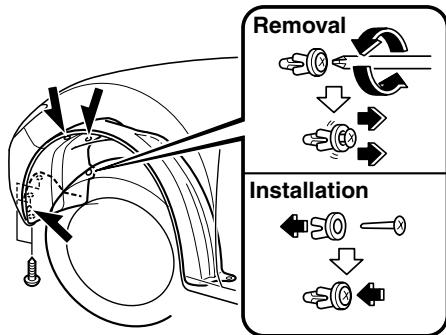
10. Install the new bulb in the reverse order of removal.

NOTE

- To replace the bulb, contact an Authorized Mazda Dealer.
- If the halogen bulb is accidentally touched, it should be cleaned with rubbing alcohol before being used.
- Use the protective cover and carton for the replacement bulb to dispose of the old bulb promptly and out of the reach of children.

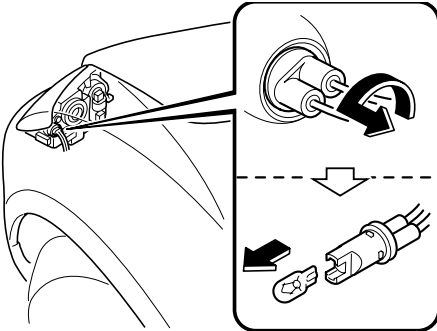
Front side marker lights, Front turn signal lights/Parking lights

1. Make sure the headlight switch is off.
2. If you are changing a bulb in the right headlight unit, start the engine, turn the steering wheel all the way to the right, and turn off engine. If you are changing a bulb in the left headlight unit, turn the steering wheel to the left.
3. Turn the screws and the center section of the plastic retainers counterclockwise and remove them, then partially peel back the mudguard.

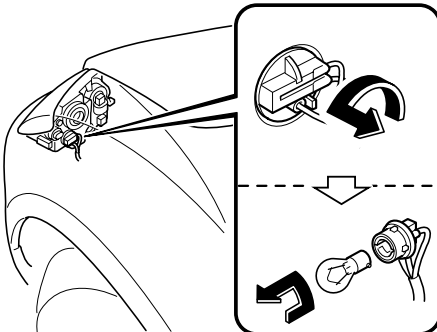


4. Turn the socket and bulb assembly counterclockwise and remove it.
5. Disconnect the bulb from the socket.

Front side marker lights



Front turn signal lights/Parking lights

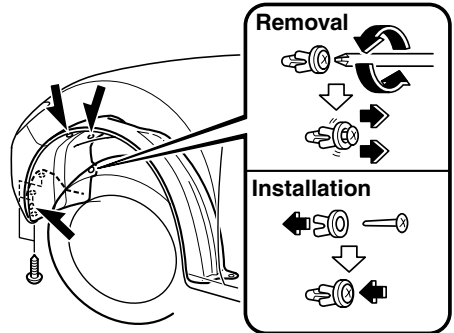


6. Install the new bulb in the reverse order of removal.

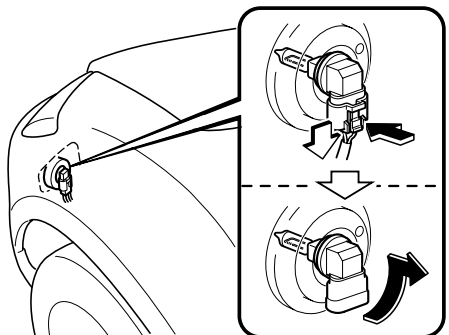
Fog lights*

1. Make sure the headlight switch is off.
2. If you are changing the right fog light bulb, start the engine, turn the steering wheel all the way to the right, and turn off engine. If you are changing the left fog light bulb, turn the steering wheel to the left.

3. Turn the screws and the center section of the plastic retainers counterclockwise and remove them, then partially peel back the mudguard.



4. Disconnect the electrical connector from the bulb by pressing the tab on the connector with your finger and pulling the connector downward.
5. Turn the socket and bulb assembly counterclockwise and remove it. Carefully remove the bulb from its socket in the reflector by gently pulling it straight backward out of the socket.



6. Install the new bulb in the reverse order of removal.

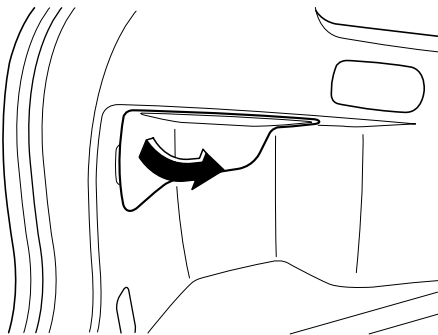
Owner Maintenance

NOTE

- To replace the bulb, contact an Authorized Mazda Dealer.
- If the halogen bulb is accidentally touched, it should be cleaned with rubbing alcohol before being used.
- Use the protective cover and carton for the replacement bulb to dispose of the old bulb promptly and out of the reach of children.

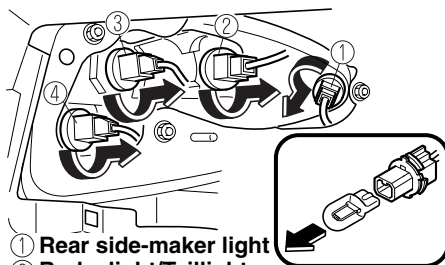
Brake lights/Taillights, Rear turn signal lights, Reverse lights, Rear side-marker lights

1. Remove the cover.



2. Turn the socket and bulb assembly counterclockwise and remove it.

3. Disconnect the bulb from the socket.



- ① Rear side-maker light
- ② Brake light/Taillight
- ③ Rear direction indication light
- ④ Reverse light

4. Install the new bulb in the reverse order of removal.

NOTE

To replace the bulb, contact an Authorized Mazda Dealer.

High-mount brake light

Due to the complexity and difficulty of the procedure, the LED bulbs should be replaced by an Authorized Mazda Dealer.

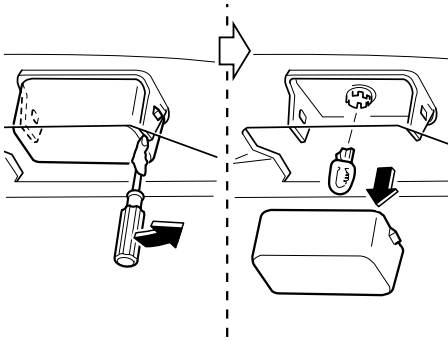
NOTE

LED bulb replacement is not possible. The rear combination component must be replaced.

License plate lights

1. Wrap a flathead screwdriver with a soft cloth to prevent damage to the lens and remove the lens by carefully prying on the edge of the lens with a flathead screwdriver.

2. Disconnect the bulb by pulling it out.



3. Install the new bulb in the reverse order of removal.

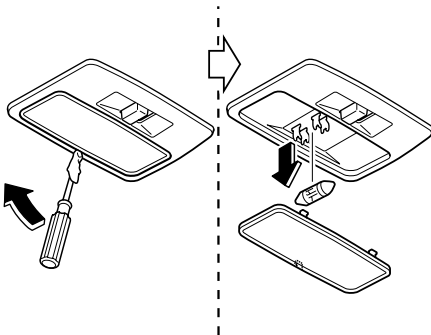
▼ Replacing Interior Light Bulbs

Overhead light/Map lights (Front)

Due to the complexity and difficulty of the procedure, the bulbs should be replaced by an Authorized Mazda Dealer.

Overhead light (Rear), Luggage compartment light

1. Wrap a small flathead screwdriver with a soft cloth to prevent damage to the lens and remove the lens by carefully prying on the edge of the lens with the flathead screwdriver.
2. Disconnect the bulb by pulling it out.



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.

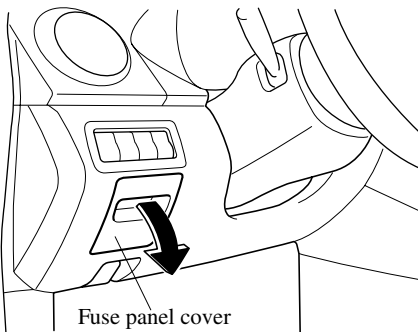
If the same fuse blows again, avoid using that system and consult an Authorized Mazda Dealer as soon as possible.

▼ Fuse Replacement

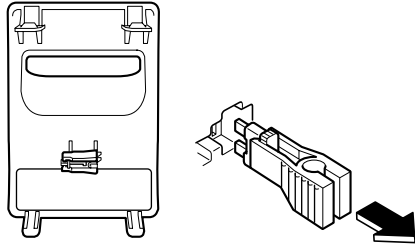
Replacing the fuses on the driver's side

If the electrical system doesn't work, first inspect fuses on the driver's side.

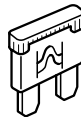
1. Turn off the ignition switch and other switches.
2. Open the fuse panel cover.



3. Pull the fuse straight out with the fuse puller provided on the inside of the cover for the fuse panel and the fuse block cover inside of the engine compartment.



4. Inspect it and replace if it's blown.



Normal



Blown

5. Push in a new fuse of the same amperage 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 ROOM circuit.

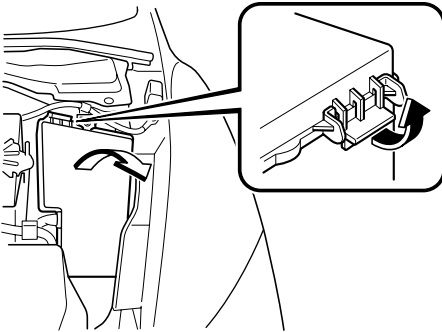
 WARNING

Always replace a fuse with one of the same rating. Otherwise you may damage the electric system.

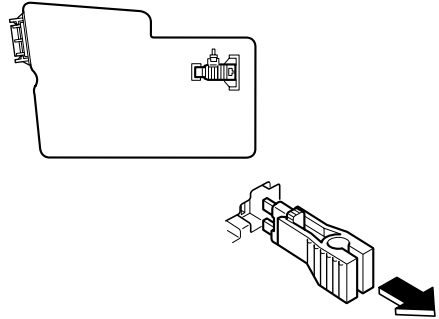
Replacing the fuses under the hood

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:

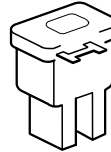
1. Turn off the ignition switch and all other switches.
2. Remove the fuse block cover.



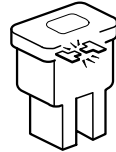
3. Pull the fuse straight out with the fuse puller provided on the inside of the engine compartment fuse block cover.



4. If a fuse is blown, replace it with a new one of the same amperage rating.



Normal



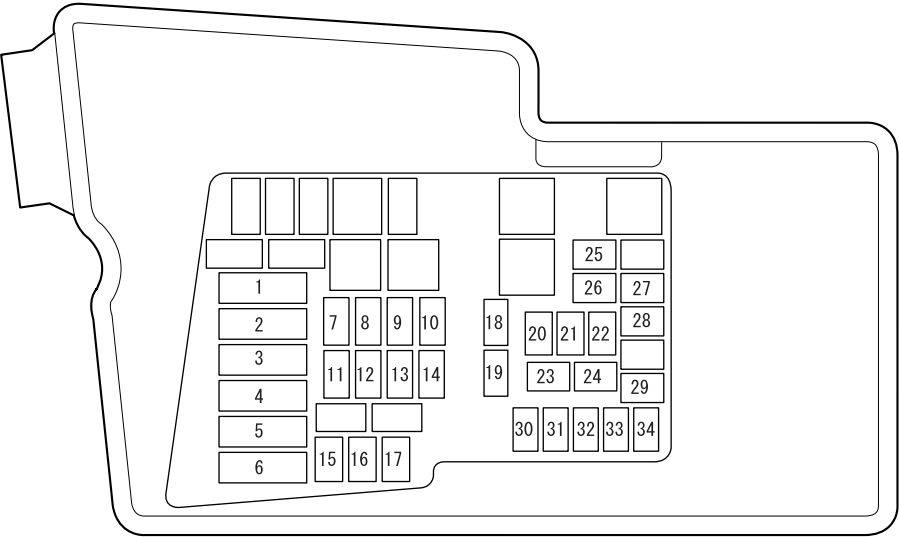
Blown

NOTE

To replace the MAIN fuse, contact an Authorized Mazda Dealer (page 8-48).

▼ Fuse Panel Description

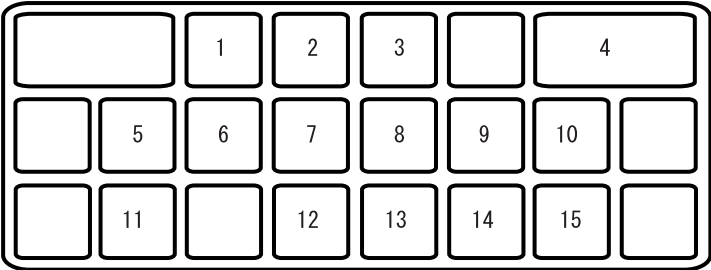
Fuse block (Engine compartment)



DESCRIPTION		FUSE RATING	PROTECTED COMPONENT
1	IGN 2	40A	Ignition system
2	BLOWER	40A	Blower motor
3	BTN	60A	For protection of various circuits
4	FAN 2	40A	Cooling fan
5	IGN 1	40A	Ignition system
6	FAN 1	40A	Cooling fan
7	P.SEAT	40A	Power seat *
8	INJ	30A	Injector
9	ROOF	20A	Moonroof *
10	BOSE	30A	Bose audio system *
11	ENGINE	30A	Engine control system
12	D.LOCK	20A	Power door locks
13	P.WIND	30A	Power windows
14	FUEL	30A	Fuel pump
15	ABS 1	40A	ABS
16	ABS 2	20A	ABS
17	DSC	7.5A	DSC
18	FOG	20A	Fog lights *

DESCRIPTION		FUSE RATING	PROTECTED COMPONENT
19	DEF	30A	Rear window defroster
20	TNS	15A	Parking lights, License plate lights, Illuminated entry system
21	A/C	10A	Air conditioner *
22	ETC	20A	Accelerator position sensor
23	H/L HI	15A	Headlight leveling *
24	DRL	15A	DRL *
25	H/L LO RH	15A	Headlight low beam (RH)
26	H/L LO LH	15A	Headlight low beam (LH)
27	ENG BAR 2	7.5A	PCM
28	ECM	10A	Engine control system
29	ENG BAR 1	15A	Air flow sensor, EGR control valve
30	P.WIND 2	20A	Power windows
31	STOP	10A	Brake lights
32	HORN	20A	Horn
33	ENG B+	25A	PCM
34	HAZARD	10A	Hazard warning flashers, Turn signals

Fuse block (Driver's side)



DESCRIPTION		FUSE RATING	PROTECTED COMPONENT
1	OUTLET 1	15A	Accessory Socket

Owner Maintenance

DESCRIPTION		FUSE RATING	PROTECTED COMPONENT
2	OUTLET 2	15A	Accessory Socket
3	P.MIR	7.5A	Power control mirror
4	WIPER	30A	Windshield wiper and washer
5	M.DEF	7.5A	Mirror defroster *
6	ENG BAR 3	7.5A	Air flow sensor, EGR control valve
7	P.WIND	15A	Power windows
8	A/B	7.5A	Advance Restraint System
9	ENGINE	15A	Engine control system
10	METER	10A	Instrument cluster
11	ROOM	15A	Audio system, Overhead light
12	ILLUMI	10A	Dashboard illumination
13	SEAT	20A	Seat warmer *
14	A/C	10A	Air conditioner *
15	R.WIP	10A	Rear window wiper and washer

* Some models.

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 Dropping, 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.

Appearance Care

▼ 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 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

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, remove 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 fenders, and make sure the drain holes in the lower edges of the doors and rocker panels are clean.

Appearance Care

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.

▼ Paint Damage Touch-up

Repair damage to the finish caused by stone chipping, damage during parking etc., by using Mazda touch-up paint before rust begins to form. First, remove the dirt and grease with a clean soft cloth.

If rust has already begun to form:

1. Remove rust completely with sandpaper.
2. Wipe with a clean soft cloth.
3. Apply rust preventive primer to the area.

4. After drying it completely, apply a suitable top coat material to the area.

Of course there will be no problem if you assign the work to an Authorized Mazda Dealer.

▼ Cavity Protection

Cavities are treated for protection at the factory, but additional protective treatment after the vehicle has been put into use will extend the life of the body.

We recommend that you consult an Authorized Mazda Dealer concerning this additional precaution.

▼ 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.

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 result in damage to the protective coating and cause discoloration or paint deterioration.

▼ 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.

Appearance Care

▼ Undercoating

This special coating is applied to the critical parts of the underside to protect vehicles from damage caused by chemicals or stones. This coating is liable to be damaged with time. Check this coating periodically.

An Authorized Mazda Dealer are well informed on how repairs should be made. Consult an Authorized Mazda Dealer.

▼ 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.

 CAUTION

Do not use glazing agents. Glazing agents contain ingredients which may cause discoloration, wrinkling, cracks and peeling.

▼ 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.

Piano black panel*

The following parts are fitted with panels that have been treated with a special coating that resists scratching.

Steering wheel (partial)

When the panel needs to be cleaned, use a soft cloth to wipe off dirt from the surface.

NOTE

Scratches or nicks on the panels resulting from the use of a hard brush or cloth may not be repairable.

▼ 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.

After cleaning the belts, thoroughly dry the belt webbing and make sure there is no remaining moisture before retracting them.

WARNING

Damaged Seat Belt:
Using damaged seat belts is dangerous. In a collision, damaged belts cannot provide adequate protection. Have an 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

Customer Information and Reporting Safety Defects

Important consumer information including warranties and add-on equipment.

Customer Assistance	9-2	Tire Information (except Canada)	9-22
Customer Assistance (U.S.A.)	9-2	Tire Labeling	9-22
Customer Assistance (Canada)	9-4	Location of the Tire Label	
Customer Assistance (Puerto Rico)	9-7	(Placard)	9-28
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Customer Assistance

Customer Assistance (U.S.A.)

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:

NOTE
If it becomes necessary to have the components or wiring system for the supplementary restraint system modified to accommodate a person with certain medical conditions in accordance with a certified physician, contact an Authorized Mazda Dealer.

▼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.
- If it becomes necessary to have the components or wiring system for the supplementary restraint system modified to accommodate a person with certain medical conditions in accordance with a certified physician, go to STEP2.

▼STEP 2: Contact Mazda North American Operations

If for any reason you feel the need for further assistance after contacting your dealership management and it becomes necessary to have the components or wiring system for the supplementary restraint system modified to accommodate a person with certain medical conditions in accordance with a certified physician, you can reach Mazda North American Operations by one of the following ways.

Log on: at www.mazdaUSA.com

Answers to many questions, including how to locate or contact a local Mazda dealership in the U.S., can be found here.

E-mail: click on “Contact Us” at the bottom of the page at www.mazdaUSA.com

By phone at: 1 (800) 222-5500

Customer Assistance

By letter at:
Attn: Customer Assistance
Mazda North American Operations
7755 Irvine Center Drive
Irvine, CA 92618-2922
P.O. Box 19734
Irvine, CA 92623-9734

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 live outside the U.S.A., please contact your nearest Mazda Distributor.

Customer Assistance

Customer Assistance (Canada)

▼ Satisfaction Review Process

Your complete and permanent satisfaction is of primary concern to Mazda. All Authorized Mazda Dealers have both the knowledge and tools to keep your Mazda in top condition. In our experience, any questions, problems, or complaints regarding the operation of your Mazda or any other general service transactions are most effectively resolved by your dealer. If the cause of your dissatisfaction cannot adequately be addressed by normal dealership procedures, we recommend that you take the following steps:

▼ STEP 1: Contact the Mazda Dealer

Discuss the matter with a member of dealership management. If the Service Manager has already reviewed your concerns, contact the owner of the dealership or its General Manager.

▼ STEP 2: Contact the Mazda Regional Office

If you feel that you still require assistance, ask the dealer Service Manager to arrange for you to meet the local Mazda Service Representative. If more expedient, contact Mazda Canada Inc. Regional Office nearest you for such arrangements. Regional Office address and phone numbers are shown (page 9-6).

▼ STEP 3: Contact the Mazda Customer Relations Department

If still not substantially satisfied, contact the Customer Relations Department, Mazda Canada Inc., 55 Vogell Road, Richmond Hill, Ontario, L4B 3K5 Canada TEL: 1 (800) 263-4680.

Provide the Department with the following information:

1. Your name, address and telephone number
2. Year and model of vehicle
3. Vehicle Identification Number (VIN). Refer to the "Vehicle Identification Labels" page of section 10 of this manual for the location of the VIN.
4. Purchase date
5. Present odometer reading
6. Your dealer's name and location
7. The nature of your problem and/or cause of dissatisfaction

The Department, in cooperation with the local Mazda Service Representative, will review the case to determine if everything possible has been done to ensure your satisfaction.

Please recognize that the resolution of service problems in most cases requires the use of your Mazda dealer's service facilities, personnel and equipment. We urge you to follow the above three steps in sequence for most effective results.

▼ Mediation/Arbitration Program

Occasionally a customer concern cannot be resolved through Mazda's Customer Satisfaction Program. If after exhausting the procedures in this manual your concern is still not resolved, you have another option.

Mazda Canada Inc. participates in an arbitration program administered by the Canadian Motor Vehicle Arbitration Plan (CAMVAP). CAMVAP will advise you about how your concern may be reviewed and resolved by an independent third party through binding arbitration.

Your complete satisfaction is the goal of Mazda Canada Inc. and our dealers. Mazda's participation in CAMVAP makes a valuable contribution to our achieving that goal. There is no charge for using CAMVAP. CAMVAP results are fast, fair and final as the award is binding on both you and Mazda Canada Inc.

▼ Canadian Motor Vehicle Arbitration Plan (CAMVAP)

If a specific item of concern arises, where a solution cannot be reached between an owner, Mazda, and/or one of its dealers (that all parties cannot agree upon), the owner may wish to use the services offered by the Canadian Motor Vehicle Arbitration Plan (CAMVAP).

CAMVAP uses the services of Provincial Administrators to assist consumers in scheduling and preparing for their arbitration hearings. However, before you can proceed with CAMVAP you must follow your Mazda dispute resolution process as outlined previously.

Customer Assistance

CAMVAP is fully implemented in all provinces and territories. Consumers wishing to obtain further information about the Program should contact the Provincial Administrator at 1 (800) 207-0685, or by contacting the Canadian Motor Vehicle Arbitration Plan Office at:

Canadian Motor Vehicle Arbitration Plan
235 Yorkland Boulevard, suite 300
North York, Ontario
M2J 4Y8
<http://camvap.ca>

Provincial Administrators may be reached locally as listed below:

Province/Territory	CAMVAP Number
British Columbia & Yukon Territories	1 (800) 207-0685
Alberta & Northwest Territories	1 (800) 207-0685
Saskatchewan	1 (800) 207-0685
Manitoba	1 (800) 207-0685
Ontario	1 (800) 207-0685
Atlantic Canada	1 (800) 207-0685
Quebec	1 (800) 207-0685

▼ Regional Offices

REGIONAL OFFICES	AREAS COVERED
MAZDA CANADA INC. WESTERN REGION 8171 ACKROYD ROAD SUITE 2000 RICHMOND B.C. V6X 3K1 (604) 303-5670	ALBERTA, BRITISH COLUMBIA, MANITOBA, SASKATCHEWAN, YUKON
MAZDA CANADA INC. CENTRAL/ATLANTIC REGION 55 VOGELL ROAD, RICHMOND HILL, ONTARIO, L4B 3K5 (905) 787-7000	ONTARIO
MAZDA CANADA INC. QUEBEC REGION 6111 ROUTE TRANS CANADIENNE POINTE CLAIRE, QUEBEC H9R 5A5 (514) 694-6390	QUEBEC, NEW BRUNSWICK, NOVA SCOTIA, PRINCE EDWARD ISLAND, NEWFOUNDLAND

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.

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

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

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)

Customer Assistance

Customer Assistance (Mexico)

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.
- If it becomes necessary to have the components or wiring system for the supplementary restraint system modified to accommodate a person with certain medical conditions in accordance with a certified physician, go to STEP2.

▼STEP 2: Contact Mazda Motor de Mexico

If for any reason you feel the need for further assistance after contacting your dealership management and it becomes necessary to have the components or wiring system for the supplementary restraint system modified to accommodate a person with certain medical conditions in accordance with a certified physician, you can reach Mazda Motor de Mexico by one of the following ways.

Log on: at www.MazdaMexico.com.mx

Answers to many questions, including how to locate or contact a local Mazda dealership in Mexico, can be found here.

E-mail: click on “Contactanos” at the top of the page at www.MazdaMexico.com.mx

By phone at: 1 (866) 315 0220

Customer Assistance

By letter at:
Attn: Customer Assistance
Mazda North American Operations
7755 Irvine Center Drive
Irvine, CA 92618-2922
P.O. Box 19734
Irvine, CA 92623-9734

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)

Mazda Importer/Distributors

Importer/Distributor

▼ U.S.A.

Mazda North American Operations

7755 Irvine Center Drive
Irvine, CA 92618-2922 U.S.A.
P.O. Box 19734
Irvine, CA 92623-9734 U.S.A.
TEL: 1 (800) 222-5500 (in U.S.A.)
(949) 727-1990 (outside U.S.A.)

Distributor in Each Area

▼ CANADA

Mazda Canada Inc.

55 Vogell Road, Richmond Hill,
Ontario, L4B 3K5 Canada
TEL: 1 (800) 263-4680 (in Canada)
(905) 787-7000 (outside Canada)

▼ PUERTO RICO/U.S. Virgin Island

Plaza Motors Corp. (Mazda de Puerto Rico)

P.O. Box 362722, San Juan, Puerto Rico
00936-2722
TEL: (787) 641-9300

▼ MEXICO

Mazda Motor de Mexico

Circuito Guillermo Gonzalez Camarena N
1500 Col. Centro de Ciudad Santa Fe.
01210, Mexico, D.F.
TEL: Center of Attention to Clients:
01 (800) 016 2932. in Mexico

▼ 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

Triple J Saipan, Inc.

(d.b.a. Triple J Motors)

P.O. Box 500487 Saipan, MP 96950-0487

TEL: (670) 234-7133/3051

▼ AMERICAN SAMOA

Polynesia Motors, Inc.

P.O. Box 1120, Pago Pago, American
Samoa 96799

TEL: (684) 699-9347

Warranty

Warranties for Your Mazda

- New Vehicle Limited Warranty
- Distributor Major Component Limited Warranty (Canada only)
- Safety Restraint System Limited Warranty
- Anti-perforation Limited Warranty
- Federal Emission Control Warranty (U.S.A. only)
 - Emission Defect Warranty
 - Emission Performance Warranty
- California Emission Control Warranty (U.S.A. only)
- Emission Control Warranty (Canada only)
- 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 and Canada 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

Outside the United States

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 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 the United States. However, in the event that you are moving to Canada permanently, Mazda vehicles built for use in the United States could be eligible for exportation to Canada with specific vehicle modifications to comply with the Canadian Motor Vehicle Safety requirements (CMVSS).

NOTE
The above is applicable for a permanent import/export situation and not related to travelers on vacation.

You may have the following problems if you do take your vehicle outside of the United States:

- 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.

Please refer to your Manufacturer's Warranty Booklet for more information.

Outside Canada

Government regulations in Canada require that automobiles meet specific emission regulations and safety regulations. Therefore, vehicles built for use in 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 Canada. However, in the event that you are moving to the United States permanently, Mazda vehicles built for use in Canada could be eligible for exportation to the United States with specific vehicle modifications to comply with the United States Federal Motor Vehicle Safety Standards (FMVSS).

NOTE
The above is applicable for a permanent import/export situation and not related to travelers on vacation.

You may have the following problems if you do take your vehicle outside of Canada:

- 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.

Please refer to your Manufacturer's Warranty Booklet for more information.

Warranty

Registering Your Vehicle in A Foreign Country (Except United States and Canada)

Government regulations in your country could require that automobiles meet specific emission and safety standards.

Vehicles built for your country may differ from those built for other countries. In addition to registration problems, satisfactory service may be difficult or even impossible in another country.

The fuel specified for your vehicle may be unavailable.

Parts, servicing techniques, and tools necessary to maintain and repair your vehicle may be unavailable.

There might not be an Authorized Mazda Dealer in the country you plan to take your vehicle.

The Mazda warranty is valid only in certain countries.

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 Mazda for use with Mazda vehicles. When you install non-genuine parts or accessories, they could affect your vehicle's performance or safety systems; 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 systems. 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.

Cell Phones

Cell Phones Warning

WARNING

Use of Cell Phones and Other Devices by Driver:

Use of any electrical devices such as cell phones, computers, portable radios, vehicle navigation or other devices by the driver while the vehicle is moving is dangerous. Dialing a number on a cell phone while driving also ties-up the driver's hands. Use of these devices will cause the driver to be distracted and could lead to a serious accident. If a passenger is unable to use the device, pull off the right-of-way to a safe area before use. If use of a cell phone is necessary despite this warning, use a hands-free system to at least leave the hands free to drive the vehicle. Never use a cell phone or other electrical devices while the vehicle is moving and, instead, concentrate on the full-time job of driving.

Please comply with the legal regulations concerning the use of communication equipment in vehicles in your country.

Type Approval of Equipment (Mexico)

Immobilizer system

Este equipo opera a título secundario, consecuentemente, debe aceptar interferencias perjudiciales incluyendo equipos de la misma clase y puede no causar interferencias a sistemas operando a título primario

Sistema inmovilizador

Modelo : IMB111-02

Sistema inmovilizador con marcado de confirmación por radio

COFETEL RCPMAIM05-614

Sistema inmovilizador

Modelo : IMB111-03

Sistema inmovilizador con marcado de confirmación por radio

COFETEL RCPMAIM05-935

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 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 vehicles may vary with respect to grade.

ALL PASSENGER VEHICLE TIRES MUST CONFORM TO THESE GRADES AND TO ALL OTHER FEDERAL TIRE-SAFETY REQUIREMENTS.

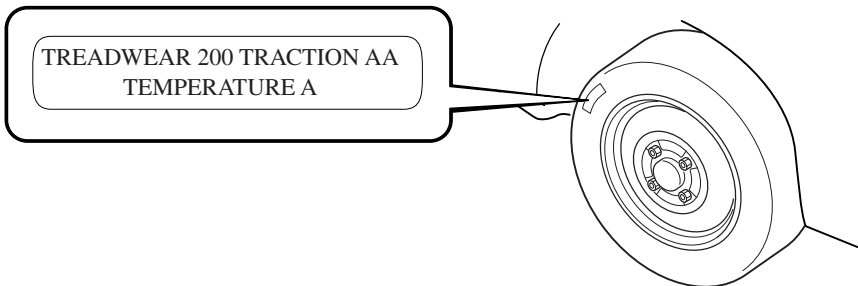
▼ Uniform Tire Quality Grading

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)



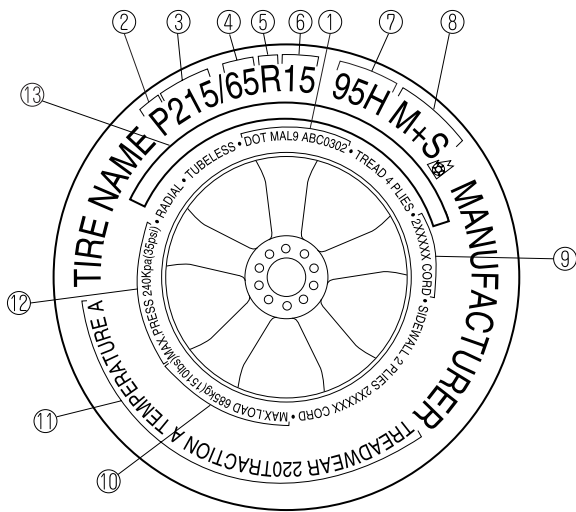
Tire Information (except Canada)

Tire Labeling

Federal law requires tire manufacturers to place standardized information on the sidewall of all tires. This information identifies and describes the fundamental characteristics of the tire and also provides a tire identification number for safety standard certification and in case of a recall.

▼ Information on Passenger Vehicle Tires

Please refer to the diagram below.



1. TIN: U.S. DOT tire identification number
2. Passenger car tire
3. Nominal width of tire in millimeters
4. Ratio of height to width (aspect ratio)
5. Radial
6. Rim diameter code
7. Load index & speed symbol
8. Severe snow conditions
9. Tire ply composition and materials used
10. Max. load rating

Tire Information (except Canada)

11. Tread wear, traction and temperature grades

12. Max. permissible inflation pressure

13. SAFETY WARNING

P215/65R15 95H is an example of a tire size and load index rating. Here is an explanation of the various components of that tire size and load index rating. Note that the tire size and load index rating may be different from the example.

P

Indicates a tire that may be installed on cars, SUVs, minivans and light trucks as designated by the Tire and Rim Association (T&RA).

NOTE
If your tire size does not begin with a letter this may mean it is designated by either ETRTO (European Tire and Rim Technical Organization) or JATMA (Japan Tire Manufacturing Association).

215

“215” is the nominal width of the tire in millimeters. This three-digit number gives the width in millimeters of the tire from sidewall edge to sidewall edge. In general, the larger the number, the wider the tire.

65

“65” is the aspect ratio. This two-digit number indicates the tire's ratio of height to width.

R

“R” is the tire construction symbol. R indicates “Radial ply construction”.

15

“15” is the wheel rim diameter in inches.

95

“95” is the Load Index. This two-or three-digit number indicates how much weight each tire can support.

Tire Information (except Canada)

H

“H” is the speed rating. The speed rating denotes the maximum speed for which the use of the tire is rated.

Letter Rating	Speed Rating
Q	99 mph
R	106 mph
S	112 mph
T	118 mph
U	124 mph
H	130 mph
V	149 mph
W	168* mph
Y	186* mph

* For tires with a maximum speed capability over 149 mph, tire manufacturers sometimes use the letters ZR. For tires with a maximum speed capability over 186 mph, tire manufacturers always use the letters ZR.

M+S or M/S: Mud and Snow

AT: All Terrain.

AS: All Season. The “M+S” or “M/S” indicates that the tire has some functional use in mud and snow.

U.S. DOT Tire Identification Number (TIN)

This begins with the letters “DOT” which indicates the tire meets all federal standards. The next two numbers or letters are the plant code where it was manufactured, and the last four numbers represent the week and year the tire was manufactured. For example, the numbers 457 means the 45st week of 1997. After 2000 the numbers go to four digits. For example, the number 2102 means the 21th week of 2002. The other numbers are marketing codes used at the manufacturer's discretion. This information is used to contact consumers if a tire defect requires a recall.

Tire Ply Composition and Materials Used

The number of plies indicates the number of layers of rubber-coated fabric in the tire. In general, the greater the number of plies, the more weight a tire can support. Tire manufacturers also must indicate the tire materials, which include steel, nylon, polyester, and other.

Maximum Load Rating

This number indicates the maximum load in kilograms and pounds that can be carried by the tire.

Maximum Permissible Inflation Pressure

This number is the greatest amount of air pressure that should ever be put in the tire under normal driving conditions.

Tire Information (except Canada)

Tread Wear, Traction and Temperature Grades

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 one-half (1 1/2) times as well on the government course as a tire graded 100.

Traction: The traction grades, from highest to lowest are AA, A, B, and C. The 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.

Temperature: The temperature grades are A (the highest), B and C, representing the tire's resistance to the generation of heat and its ability to dissipate heat when tested under controlled conditions on a specified indoor laboratory test wheel.

Snow Tires

In some heavy snow areas, local governments may require true snow tires, those with very deeply cut tread. These tires should only be used in pairs or placed on all four wheels. Make sure you purchase snow tires that are the same size and construction type as the other tires on your vehicle.

SAFETY WARNING

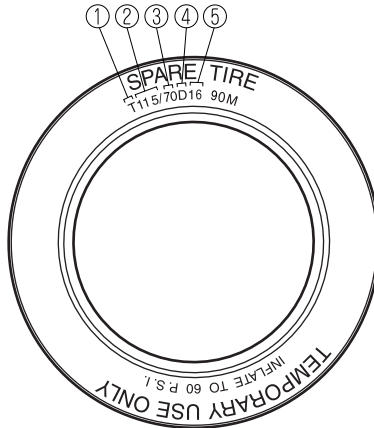
The following safety warning appears on the tire's sidewall.
SERIOUS INJURY MAY RESULT FROM:

- EXPLOSION OF TIRE/RIM ASSEMBLY DUE TO IMPROPER MOUNTING-MATCH TIRE DIAMETER TO RIM DIAMETER; NEVER EXCEED 40 psi (275 kPa) TO SEAT BEADS-ONLY SPECIALLY TRAINED PERSONS SHOULD MOUNT TIRES.
- TIRE FAILURE DUE TO UNDER-INFLATION/OVERLOADING/DAMAGE-FOLLOW OWNER'S MANUAL AND PLACARD IN VEHICLE-FREQUENTLY CHECK INFLATION PRESSURE AND INSPECT FOR DAMAGE.

Tire Information (except Canada)

▼ Information on Temporary Tires

Please refer to the diagram below.



1. Temporary tires
2. Nominal width of tire in millimeters
3. Ratio of height to width (aspect ratio)
4. Diagonal
5. Rim diameter code

T115/70D 16 is an example of a tire size and load index rating. Here is an explanation of the various components of that tire size and load index rating. Note that the tire size and load index rating may be different from the example.

T

Indicates a tire that may be installed on cars, SUVs, minivans and light trucks as designated by the Tire and Rim Association (T&RA).

115

“115” is the nominal width of the tire in millimeters. This three-digit number gives the width in millimeters of the tire from sidewall edge to sidewall edge. In general, the larger the number, the wider the tire.

70

“70” is the aspect ratio. This two-digit number indicates the tire's ratio of height to width.

Tire Information (except Canada)

D

“D” is the tire construction symbol. D indicates “diagonal ply construction”.

16

“16” is the wheel rim diameter in inches.

Location of the Tire Label (Placard)

You will find the tire label containing tire inflation pressure by tire size and other important information on the driver's side B-pillar or on the edge of the driver's door frame.

SAMPLE



TIRE AND LOADING INFORMATION

SEATING CAPACITY : TOTAL 5 : FRONT 2 : REAR 3

The combined weight of occupants and cargo should never exceed 385kg or 850 lbs.

TIRE	SIZE	COLD TIRE PRESSURE	SEE OWNER'S
FRONT	P235/60R 18	220KPA, 32PSI	MANUAL FOR
REAR	P235/60R 18	220KPA, 32PSI	ADDITIONAL
SPARE	T155/90D 18	420KPA, 60PSI	INFORMATION

(XXX)

▼ Recommended Tire Inflation Pressure

On the tire label you will find the recommended tire inflation pressure in both kPa and psi for the tires installed as original equipment on the vehicle. It is very important that the inflation pressure of the tires on your vehicle is maintained at the recommended pressure. You should check the tire pressure regularly to insure that the proper inflation pressure is maintained.

Refer to Tires on page 10-6.

NOTE

Tire pressures listed on the vehicle placard or tire information label indicate the recommended cold tire inflation pressure, measured when the tires are cold, after the vehicle has been parked for at least 3 hours. As you drive, the temperature in the tire warms up, increasing the tire pressure.

Tire Information (except Canada)

WARNING

Tire Under-Inflation:

Driving your vehicle with under-inflated tires is dangerous.

Under-inflation is the most common cause of failures in any kind of tire and may result in severe cracking, tread separation or “blowout”, with unexpected loss of vehicle control and increased risk of injury. Under-inflation increases sidewall flexing and rolling resistance, resulting in heat buildup and internal damage to the tire. It results in unnecessary tire stress, irregular wear, loss of control and accidents. A tire can lose up to half of its air pressure and not appear to be flat!

It is impossible to determine whether or not tires are properly inflated just by looking at them.

Always check the tire inflation pressures on a regular basis according to the recommended tire inflation pressure on the tire label and in conjunction with the information in this owner's manual.

▼ **Checking Tire Pressure**

1. When you check the air pressure, make sure the tires are cold —meaning they are not hot from driving even a mile.
2. Remove the cap from the valve on one tire.
3. Firmly press a tire gauge onto the valve.
4. Add air to achieve recommended air pressure.
5. If you overfill the tire, release air by pushing on the metal stem in the center of the valve. Then recheck the pressure with your tire gauge.
6. Replace the valve cap.
7. Repeat with each tire, including the spare.

NOTE

Some spare tires require higher inflation pressure.

8. Visually inspect the tires to make sure there are no nails or other objects embedded that could poke a hole in the tire and cause an air leak.
9. Check the sidewalls to make sure there are no gouges, cuts, bulges, cracks or other irregularities.

Tire Information (except Canada)

NOTE
Warm tires normally exceed recommended pressures. Don't release air from warm tires to adjust the pressure. Under-inflation can cause serious failures and accidents. Over-inflation can produce a harsh ride and the greater possibility of damage from road hazards.

▼ Glossary of Terms

Tire Placard: A label indicating the OE tire sizes, recommended inflation pressure, and the maximum weight the vehicle can carry.

Tire Identification Number (TIN): A number on the sidewall of each tire providing information about the tire brand and manufacturing plant, tire size, and date of manufacture.

Inflation Pressure: A measure of the amount of air in a tire.

kPa: Kilopascal, the metric unit for air pressure.

psi: Pounds per square inch, the English unit for air pressure.

B-pillar: The structural member at the side of the vehicle behind the front door.

Original Equipment (OE): Describes components originally equipped on the vehicle.

Vehicle Load Limit: The maximum value of the combined weight of occupants and cargo.

Bead Area of the Tire: Area of the tire next to the rim.

Sidewall Area of the Tire: Area between the bead area and the tread.

Tread Area of the Tire: Area on the perimeter of the tire that contacts the road when it's mounted on the vehicle.

Seating capacity means the total allowable number of vehicle occupants. Seating capacity is described on the tire label.

Production options weight is the combined weight of installed regular production options weighing over 2.3 kilograms in excess of the standard items which they replace, and not previously considered in the curb weight or accessory weight, including heavy duty brakes, ride levelers, roof rack, heavy duty battery, and special trim.

Rim is the metal support (wheel) for a tire or a tire and tube assembly upon which the tire beads are seated.

Tire Maintenance

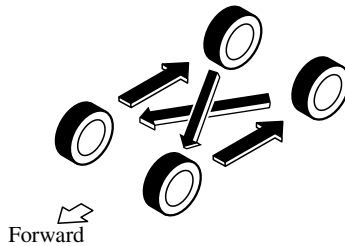
Improper or inadequate vehicle maintenance can cause tires to wear abnormally. Here are some important maintenance points:

▼ Tire Inflation Pressure

Inspect all tire pressure monthly (including the spare) when the tires are cold. Maintain recommended pressures for the best ride, top handling, and minimum tire wear. Use the pressures specified on the vehicle tire information placard or tire label for optimum service.

▼ Tire Rotation

To equalize tread wear, rotate the tires every 12,000 km (7,500 miles) or sooner if irregular wear develops. During rotation, inspect them for correct balance.



Do not include (TEMPORARY USE ONLY)
spare tire in rotation.

Inspect the tires 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, inflate all tire pressures to specification (page 10-6) and inspect the lug nuts for tightness.

Tire Information (except Canada)

 **CAUTION**

Rotate unidirectional tires and radial tires that have an asymmetrical tread pattern or studs only from front to rear, not from side to side. Tire performance will be weakened if rotated from side to side.

(With limited-slip differential)
Don't use the following:

- Tires not of the designated size
- Tires of different sizes or types at the same time
- Tires not sufficiently inflated

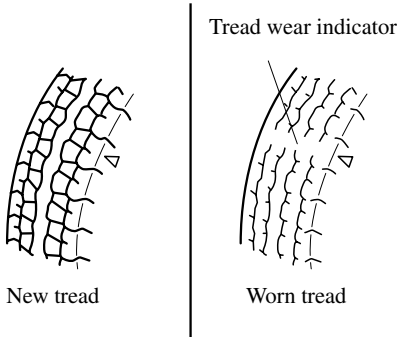
If these instructions aren't followed, the rotation of the left and right wheels will be different and will thus apply a constant load on the limited-slip differential. This will cause a malfunction.

▼ 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 should replace it before the band is across the entire tread.

Tire Information (except Canada)

NOTE

Tires degrade over time, even when they are not being used on the road. It is recommended that tires generally be replaced when they are 6 years or older. Heat caused by hot climates or frequent high loading conditions can accelerate the aging process. You should replace the spare tire when you replace the other road tires due to the aging of the spare tire. Regarding the manufacturing week and year is indicated with 4 digit. Refer to The tire labeling on page 9-22.

▼ Safety Practices

The way you drive has a great deal to do with your tire mileage and safety. So cultivate good driving habits for your own benefit.

- Observe posted speed limits
- Avoid fast starts, stops and turns
- Avoid potholes and objects on the road
- Do no run over curbs or hit the tire against the curb when parking

**CAUTION**

If you feel a sudden vibration or ride disturbance while driving or you suspect your tire or vehicle has been damaged, immediately reduce your speed. Drive with caution until you can safely pull off the road. Stop and inspect the tire for damage. If the tire is under-inflated or damaged, deflate it, remove the tire and rim and replace it with your spare tire. If you cannot detect a cause, have the vehicle towed to the nearest vehicle or tire dealer to have the vehicle inspected.

Tire Information (except Canada)

Vehicle Loading

This section will guide you in the proper loading of your vehicle and/or trailer, to keep your loaded vehicle weight within its design rating capability, with or without a trailer. Properly loading your vehicle will provide maximum return of vehicle design performance. Before loading your vehicle, familiarize yourself with the following terms for determining your vehicle's weight ratings, with or without a trailer, from the vehicle's Safety Certification Label and Tire and Load Information Label:

 WARNING

Overloaded Vehicle:

Overloading a vehicle is dangerous. The results of overloading can have serious consequences in terms of passenger safety. Too much weight on a vehicle's suspension system can cause spring or shock absorber failure, brake failure, handling or steering problems, irregular tire wear, tire failure or other damage.

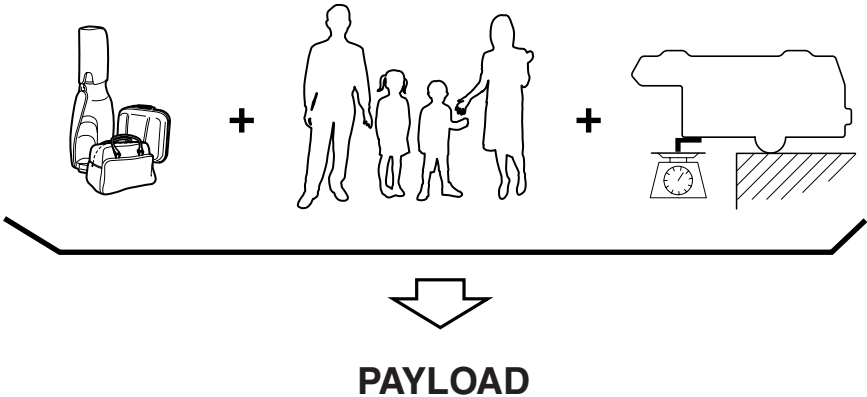
Overloading makes a vehicle harder to drive and control. It also increases the distance required for stopping. In cases of serious overloading, brakes can fail completely, particularly on steep grades. The load a tire will carry safely is a combination of the size of the tire, its load range, and corresponding inflation pressure.

Never overload the vehicle and always observe the vehicle's weight ratings from the vehicle's Safety Certification and Tire and Load Information labels.

Tire Information (except Canada)

Base Curb Weight is the weight of the vehicle including a full tank of fuel and all standard equipment. It does not include passengers, cargo, or optional equipment.

Vehicle Curb Weight is the weight of your new vehicle when you picked it up from your dealer plus any aftermarket equipment.



Payload is the combination weight of cargo and passengers that the vehicle is designed to carry. The maximum payload for your vehicle can be found on the Tire and Load Information label on the driver's door frame or door pillar. Look for "THE COMBINATION WEIGHT OF OCCUPANTS AND CARGO SHOULD NEVER EXCEED XXX kg or XXX lbs" for your maximum payload. The payload listed on the tire label is the maximum payload for the vehicle as built by the assembly plant. If any aftermarket or dealer installed equipment has been installed on the vehicle, the weight of the equipment must be subtracted from the payload listed on the tire label in order to be accurate.

Customer Information and Reporting Safety Defects

Tire Information (except Canada)

SAMPLE



TIRE AND LOADING INFORMATION

SEATING CAPACITY

TOTAL 5

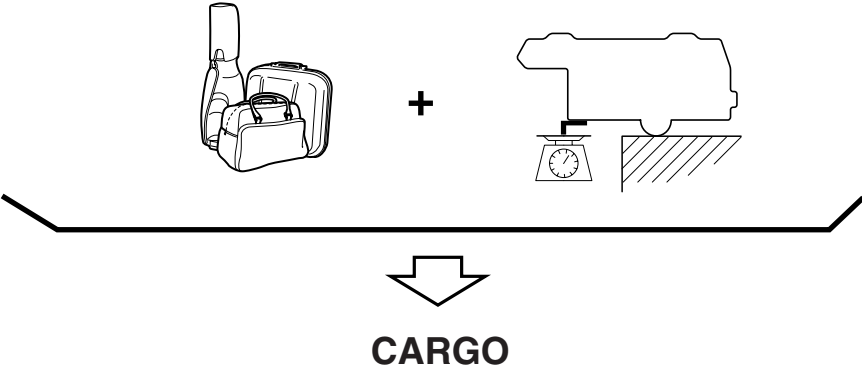
FRONT 2

REAR 3

The combined weight of occupants and cargo should never exceed 385kg or 850 lbs.

TIRE	SIZE	COLD TIRE PRESSURE	SEE OWNER'S
FRONT	P235/60R 18	220KPA, 32PSI	MANUAL FOR
REAR	P235/60R 18	220KPA, 32PSI	ADDITIONAL
SPARE	T155/90D 18	420KPA, 60PSI	INFORMATION

XXXX



Cargo Weight includes all weight added to the Base Curb Weight, including cargo and optional equipment. When towing, trailer tongue load or king pin weight is also part of cargo weight.

The cargo weight limit decreases depending on the number of vehicle occupants. The cargo weight limit can be calculated by subtracting the total weight of the vehicle occupants from the “combination weight of occupants and cargo should never exceed” value on the tire label.

Tire Information (except Canada)

Examples: Based on a single occupant weight of 68 kg, and a value of 385 kg for the “combination weight of occupants and cargo should never exceed”:

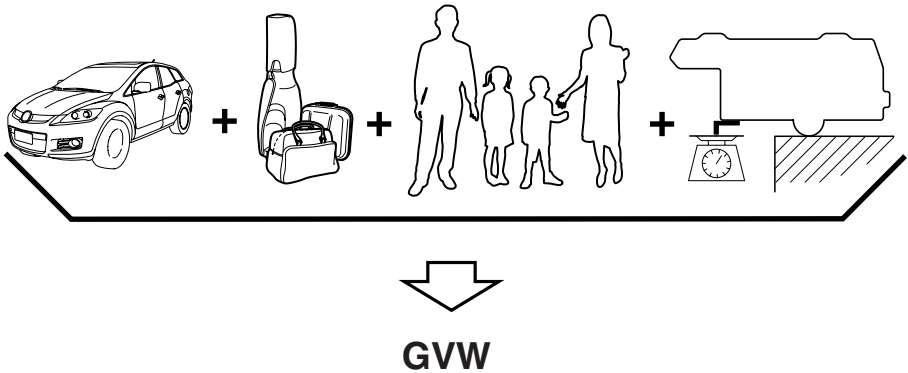
The cargo weight limit with one occupant is $385 \text{ kg} - 68 \text{ kg} = 317 \text{ kg}$

The cargo weight limit with two occupants is $385 \text{ kg} - (68 \times 2) \text{ kg} = 249 \text{ kg}$

If the weight of the occupant increases, the cargo weight limit decreases by that much.

GAW (Gross Axle Weight) is the total weight placed on each axle (front and rear) - including vehicle curb weight and all payload.

GAWR (Gross Axle Weight Rating) is the maximum allowable weight that can be carried by a single axle (front or rear). **These numbers are shown on the Safety Compliance Certification Label located on the driver's door frame or door pillar. The total load on each axle must never exceed its GAWR.**



GVW (Gross Vehicle Weight) is the Vehicle Curb Weight + cargo + passengers.

GVWR (Gross Vehicle Weight Rating) is the maximum allowable weight of the fully loaded vehicle (including all options, equipment, passengers and cargo). **The GVWR is shown on the Safety Compliance Certification Label located on the driver's door frame or door pillar. The GVW must never exceed the GVWR.**

SAMPLE

DATE

GVWR/PNBV LB KG

FRONT GAWR/PNBE AV LB KG

REAR GAWR/PNBE AR LB KG

WITH/AVEC TIRES/PNEVS

WITH/AVEC TIRES/PNEVS

RIMS/JANTES

RIMS/JANTES

KPA/ PSI

COLD/A FROID

KPA/ PSI

COLD/A FROID

VIN:

TYPE:

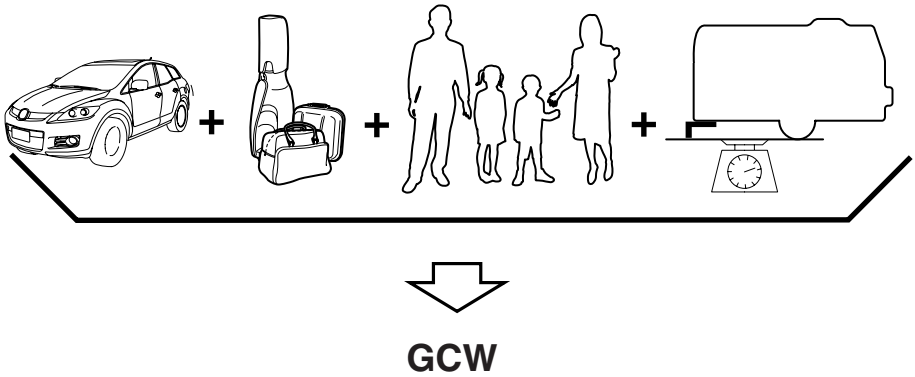
BAR CODE

 WARNING

Exceeding Axle Weight Rating Limits:
Exceeding the Safety Certification Label axle weight rating limits is dangerous and could result in death or serious injury as a result of substandard vehicle handling, performance, engine, transmission and/or structural damage, serious damage to the vehicle, or loss of control.
Always keep the vehicle within the axle weight rating limits.

Do not tow a trailer with this vehicle:
Towing a trailer with this vehicle is dangerous because it has not been designed to tow a trailer and doing so will affect the drive system which could result in vehicle damage.

Tire Information (except Canada)



GCW (Gross Combination Weight) is the weight of the loaded vehicle (GVW) plus the weight of the fully loaded trailer.

GCWR (Gross Combination Weight Rating) is the maximum allowable weight of the vehicle and the loaded trailer - including all cargo and passengers - that the vehicle can handle without risking damage. (Important: The towing vehicle's braking system is rated for operation at GVWR, not at GCWR. Separate functional brakes should be used for safe control of towed vehicles and for trailers weighing more than 1,500 lbs). **The GCW must never exceed the GCWR.**

Maximum Loaded Trailer Weight is the highest possible weight of a fully loaded trailer the vehicle can tow. It assumes a vehicle with only mandatory options, no cargo (internal or external), a tongue load of 10–15% (conventional trailer) or king pin weight of 15–25% (fifth-wheel trailer), and driver only (150 lbs). **Consult your dealership (or the RV and Trailer Towing Guide provided by your dealership) for more detailed information.** **Tongue Load or Fifth-Wheel King Pin Weight** refers to the amount of the weight that a trailer pushes down on a trailer hitch.

Examples: For a 5000 lb conventional trailer, multiply 5000 by 0.10 and 0.15 to obtain a proper tongue load range of 500 to 750 lbs. For an 11,500 lb fifth-wheel trailer, multiply by 0.15 and 0.25 to obtain a proper king pin load range of 1,725 to 2,875 lbs.

Tire Information (except Canada)



Exceeding GVWR or GAWR Specifications:

Exceeding the GVWR or the GAWR specified on the certification label is dangerous. Exceeding any vehicle rating limitation could result in a serious accident, injury, or damage to the vehicle.

Do not use replacement tires with lower load carrying capacities than the originals because they may lower the vehicle's GVWR and GAWR limitations. Replacement tires with a higher limit than the originals do not increase the GVWR and GAWR limitations.

Never exceed the GVWR or the GAWR specified on the certification label.

Tire Information (except Canada)

Steps for Determining the Correct Load Limit:

Steps for Determining Correct Load Limit:

- (1) Locate the statement “The combined weight of occupants and cargo should never exceed XXX kg or XXX lbs” on your vehicle's placard.
- (2) Determine the combined weight of the driver and passengers that will be riding in your vehicle.
- (3) Subtract the combined weight of the driver and passengers from XXX kg or XXX lbs.
- (4) The resulting figure equals the available amount of cargo and luggage load capacity. For example, if the “XXX” amount equals 1400 lbs. and there will be five 150 lb passengers in your vehicle, the amount of available cargo and luggage load capacity is 650 lbs. $(1400 - 750 (5 \times 150) = 650$ lbs.)
- (5) Determine the combined weight of luggage and cargo being loaded on the vehicle. That weight may not safely exceed the available cargo and luggage load capacity calculated in Step 4.
- (6) If your vehicle will be towing a trailer, the load from your trailer will be transferred to your vehicle. Consult this manual to determine how this reduces the available cargo and luggage load capacity of your vehicle.

Reporting Safety Defects

Reporting Safety Defects (U.S.A.)

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 call the Vehicle Safety Hotline toll-free at 1-888-327-4236 (TTY: 1-800-424-9153) ; go to <http://www.safercar.gov>; or write to: Administrator, NHTSA, 400 Seventh Street, SW., Washington, DC 20590. You can also obtain other information about motor vehicle safety from <http://www.safercar.gov>.

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) 222-5500 If you live outside of the U.S.A., please contact the nearest Mazda Distributor shown (page 9-10) in this booklet.

Reporting Safety Defects

Reporting Safety Defects (Canada)

Canadian customers who wish to report a safety-related defect to Transport Canada, Defect Investigations and Recalls, may telephone the toll free hotline 1-800-333-0510, or contact Transport Canada by mail at: Transport Canada, ASFAD, Place de Ville Tower C, 330 Sparks Street, Ottawa ON K1A 0N5.

For additional road safety information, please visit the Road Safety website at:
<http://www.tc.gc.ca/roadsafety/menu.htm>

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
9999-95-034B-07	2007 WORKSHOP MANUAL (English)
9999-MX-034B-07	2007 WORKSHOP MANUAL (Spanish)
9999-95-068G-07	2007 WIRING DIAGRAM (English)
9999-MX-068G-07	2007 WIRING DIAGRAM (Spanish)
9999-95-080C-07R2 (U.S.A. only)	2007 OWNER'S MANUAL
9999-EC-080C-07R2 (Canada only)	2007 OWNER'S MANUAL
9999-PR-080C-07R2 (Puerto Rico, Mexico only)	2007 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.

10

Specifications

Technical information about your Mazda.

Identification Numbers 10-2

Vehicle Information Labels 10-2

Specifications 10-4

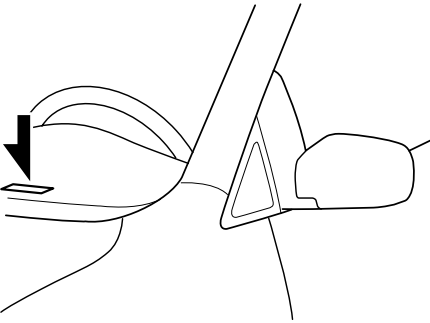
Specifications 10-4

Identification Numbers

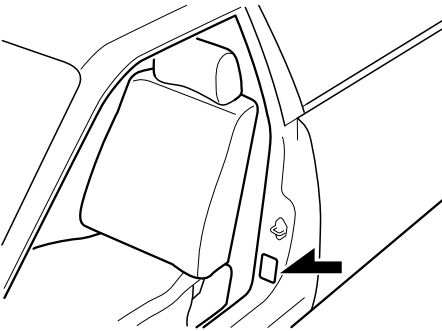
Vehicle Information Labels

▼ Vehicle Identification Number

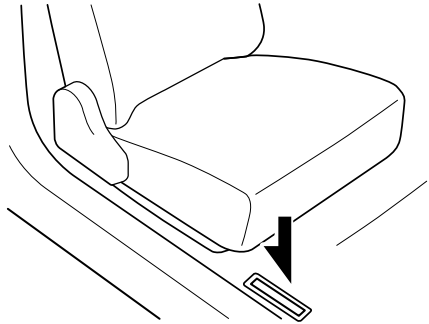
The vehicle identification number legally identifies your vehicle. The number is on a plate attached to the cowl panel located on the left corner of the dashboard. This plate can easily be seen through the windshield.



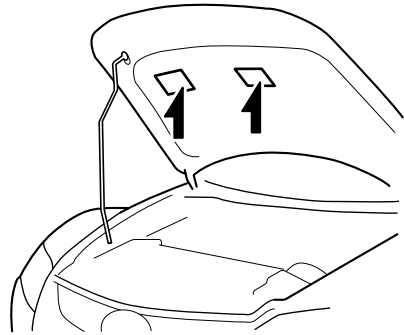
▼ Motor Vehicle Safety Standard Label



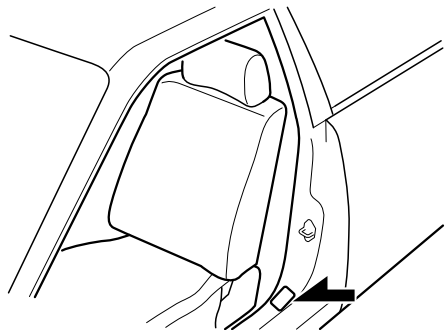
▼ Chassis Number



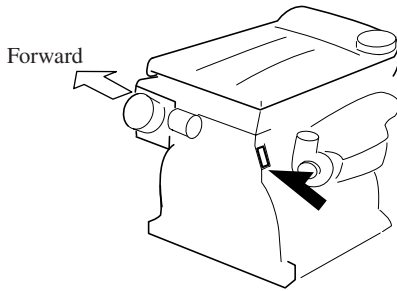
▼ Vehicle Emission Control Information Label



▼ Tire Pressure Label (Except Canada)



▼ Engine Number



Specifications

Specifications

▼ Engine

Item	Specification
Type	DOHC-16V in-line, 4-cylinder
Bore×Stroke	87.5 × 94.0 mm (3.44 × 3.70 in)
Displacement	2,261 ml (2,261 cc, 137.9 cu in)
Compression ratio	9.5

▼ Electrical System

Item	Classification
Battery	12V-48AH/5HR MF
	12V-55AH/5HR MF
Spark-plug number	L3K9 18 110A ^{*1}
	L3Y3 18 110
Spark-plug gap	0.70—0.80 mm (0.028—0.031 in)

*1 ex factory

 **CAUTION**

When cleaning the iridium plugs, do not use a wire brush. The fine particulate coating on the iridium alloy and platinum tips could be damaged.

▼ Lubricant Quality

Lubricant	Classification
Engine oil	Refer to the recommended SAE viscosity numbers on page 8-18.
Automatic transaxle fluid	JWS3309
Transfer case oil	API Service GL-5 (SAE 80W-90)
Rear differential oil	API Service GL-5 (SAE 80W-90)
Power steering fluid	ATF M-III, M-V, or equivalent (e.g. Dexron® II)
Brake fluid	SAE J1703, or FMVSS116 DOT-3

▼Capacities

(Approximate Quantities)

Item		Capacity
Engine oil	With oil filter replacement	5.7 L (6.0 US qt, 5.0 Imp qt)
	Without oil filter replacement	5.3 L (5.6 US qt, 4.7 Imp qt)
Coolant		9.0 L (9.5 US qt, 7.9 Imp qt)
Automatic transaxle fluid		7.0 L (7.4 US qt, 6.2 Imp qt)
Transfer case oil		1.2 L (1.3 US qt, 1.1 Imp qt)
Rear differential oil		1.0 L (1.1 US qt, 0.9 Imp qt)
Washer fluid	With low washer fluid level warning light	4.5 L (4.8 US qt, 4.0 Imp qt)
	Without low washer fluid level warning light	2.5 L (2.6 US qt, 2.2 Imp qt)
Fuel tank		69.0 L (18.2 US gal, 15.2 Imp gal)

Check oil and fluid levels with dipsticks or reservoir gauges.

▼Dimensions

Item		Vehicle specification
Overall length	With license plate holder	4,680 mm (184.3 in)
	Without license plate holder	4,675 mm (184.1 in)
Overall width		1,872 mm (73.7 in)
Overall height		1,645 mm (64.8 in)
Front tread		1,617 mm (63.7 in)
Rear tread		1,612 mm (63.5 in)
Wheelbase		2,750 mm (108.3 in)

▼Weights

Item		Weight	
		2WD	AWD
GVWR (Gross Vehicle Weight Rating)		2,168 kg (4,780 lbs)	2,267 kg (4,998 lbs)
GAWR (Gross Axle Weight Rating)	Front	1,150 kg (2,535 lbs)	1,189 kg (2,621 lbs)
	Rear	1,022 kg (2,253 lbs)	1,083 kg (2,388 lbs)

▼Air Conditioner

Item	Classification
Refrigerant Type	HFC134a (R-134a)

Specifications

▼Light Bulbs

Exterior light

Light bulb			Category	
			Wattage	ECE R (SAE)
Headlights	High beam		60	HB3 (#9005)
	Low beam	Halogen	55	H7 (H7)
		Xenon fusion	35	D2S (—)
Front turn signal lights/Parking lights			27/8	— (#1157NA)
Front side-marker lights			5	W5W (#168)
Fog lights *			55	H11 (H11)
High-mount brake light* ¹			2.4	— (—)
Rear turn signal lights			21	WY21W (—)
Brake lights/Taillights			21/5	W21/5W (#7743)
Reverse lights			21	W21W (#7440)
License plate lights			5	W5W (#168)
Rear side-marker lights			5	W5W (#168)

*1 Bulb replacement is not possible because it is built into the unit. Replace the unit.

Interior light

Light bulb	Category	
	Wattage	ECE R
Overhead lights/Map lights (Front)	5	W5W
Overhead light (Rear)	10	—
Luggage compartment light	10	—

▼Tires

NOTE
The tires have been optimally matched with the chassis of your vehicle. When replacing tires, Mazda recommends that you replace tires of the same type originally fitted to your vehicle. For details, contact an Authorized Mazda Dealer.

Check the tire pressure label for tire size and inflation pressure.
Refer to Tire Inflation Pressure on page 8-34.

Standard tire

(Except Mexico)

Tire size	Inflation pressure	
	Front	Rear
P235/60R18 102H	220 kPa (32 psi)	220 kPa (32 psi)

(Mexico)

Tire size	Inflation pressure	
	Front	Rear
235/60R18 103H	230 kPa (34 psi)	230 kPa (34 psi)

Temporary spare tire

(Except Mexico)

Tire size	Inflation pressure
T155/90D18 103M	420 kPa (60 psi)

(Mexico)

Tire size	Inflation pressure
205/80R16 100M	250 kPa (36 psi)

▼ Fuses

Refer to the fuse rating on page 8-46.

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