

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.

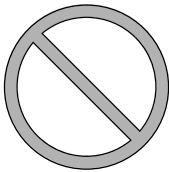
Please be aware that this manual applies to all models, equipment and options. As a result, you may find some explanations for equipment not installed on your vehicle.

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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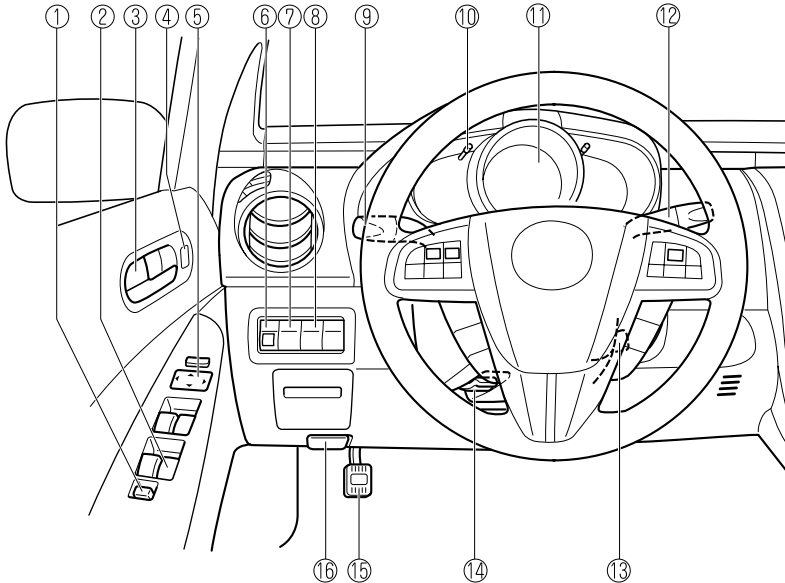
Your Vehicle at a Glance

Interior, exterior views and part identification of your Mazda.

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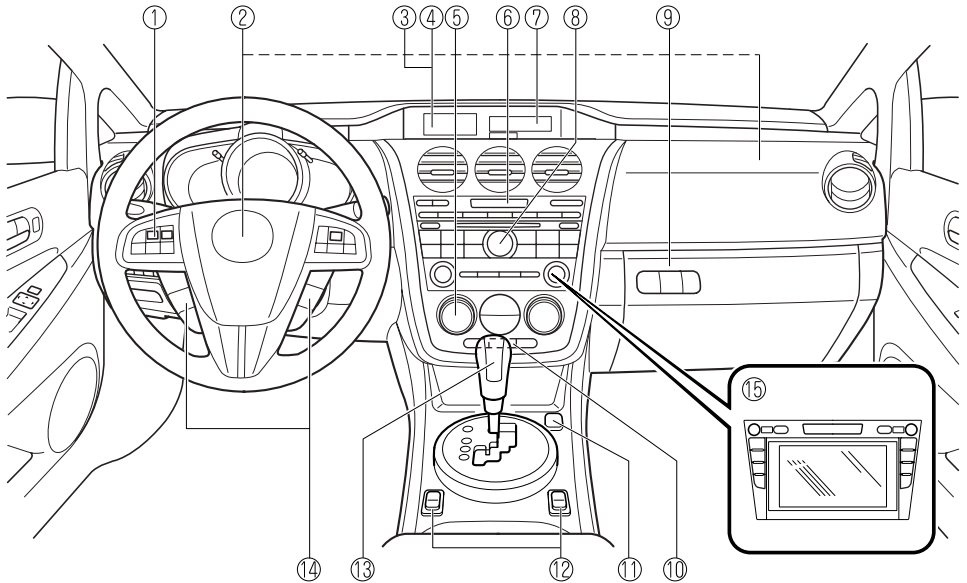
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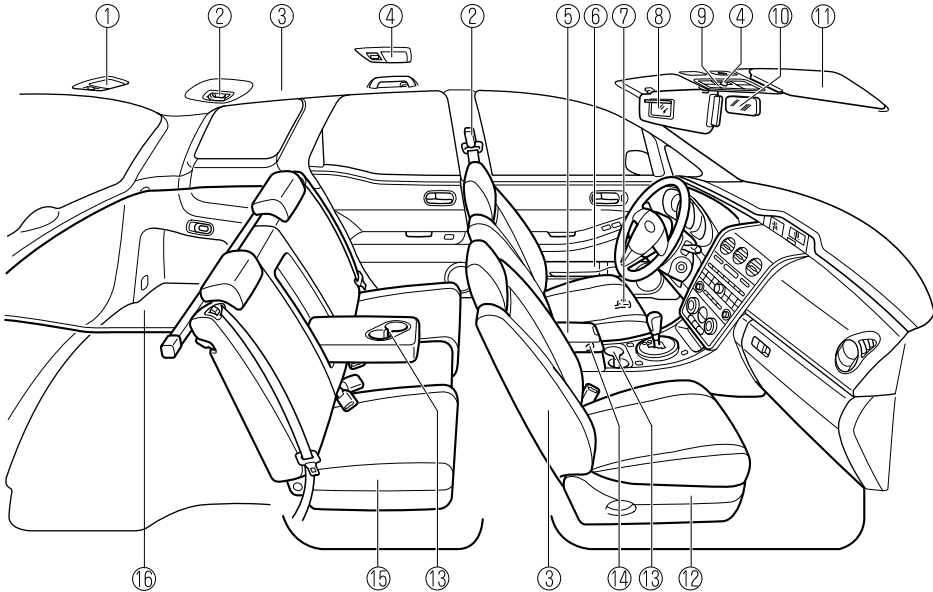
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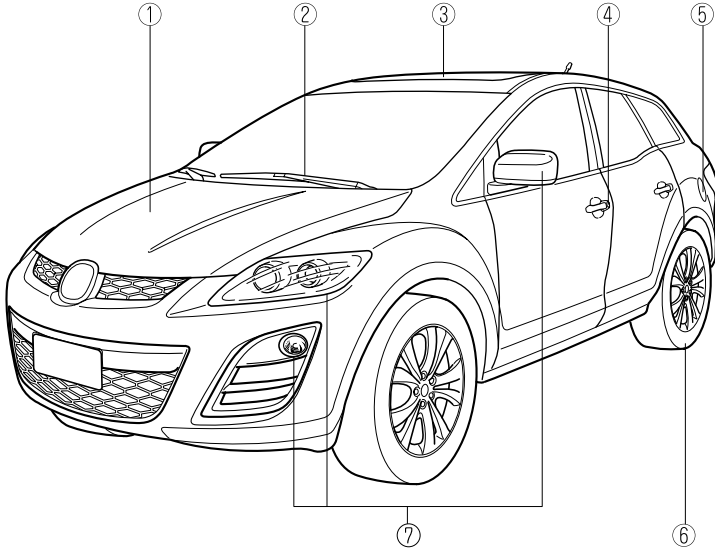
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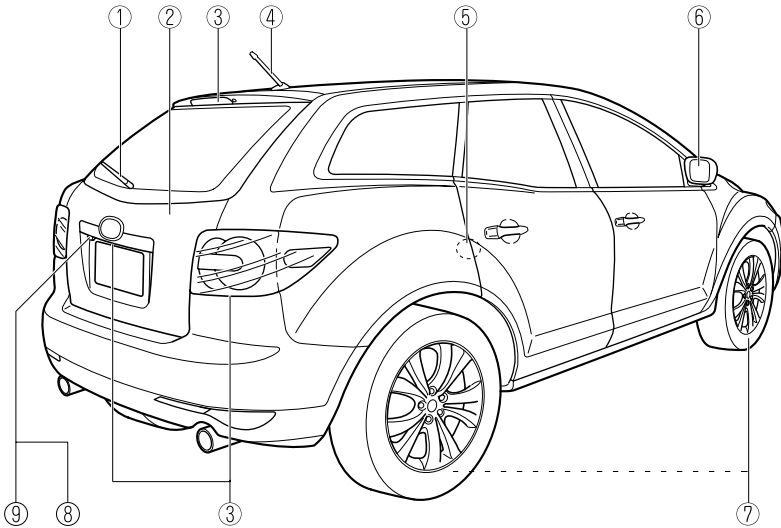
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Essential Safety Equipment

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.

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.

Adjust the driver's seat only when the vehicle is stopped:

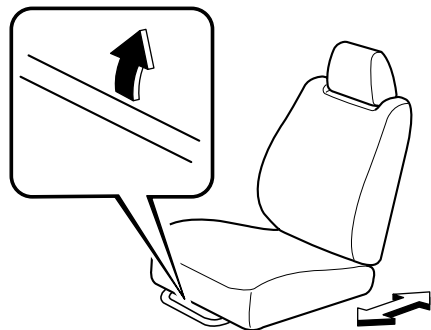
Adjusting the driver's seat while the vehicle is moving is dangerous. The driver could lose control of the vehicle and have an accident.

⚠ CAUTION

Be careful not to place your hands and fingers around moving parts of the front seat when adjusting the seat positions to prevent injury.

▼ Seat Slide

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 either front seat reclined:

Sitting in a reclined position while the vehicle is moving is dangerous because you do not 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.

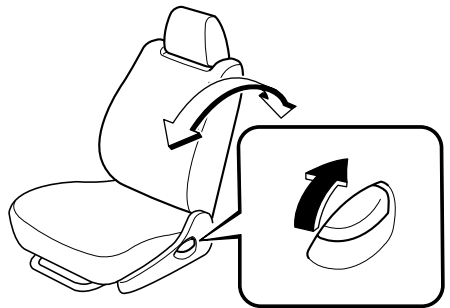
Always sit in the passenger seat properly with the seatback upright and feet on the floor:

Your front passenger seat has 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 result in serious injury. Always sit upright against the seatback with your feet on the floor.

Do not drive with the seatback unlocked:

All of the seatbacks play 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.

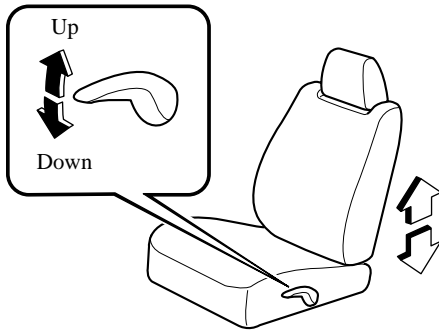
Seats

⚠ 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)

To adjust the seat height, move the lever up or down.



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.

Adjust the driver's seat only when the vehicle is stopped:

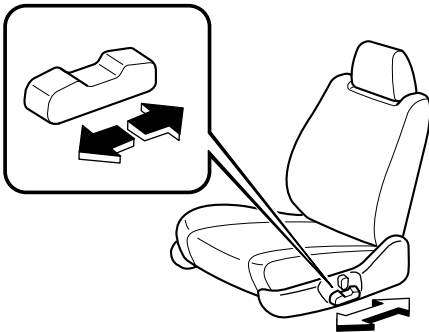
Adjusting the driver's seat while the vehicle is moving is dangerous. The driver could lose control of the vehicle and have an accident.

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.*
- *Do not use the switch to make more than one adjustment at a time.*
- *Be careful not to place your hands and fingers around moving parts of the front seat when adjusting the seat positions to prevent injury.*

▼ 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 either front seat reclined:

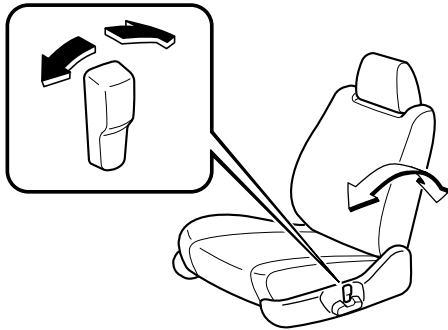
Sitting in a reclined position while the vehicle is moving is dangerous because you do not get the full protection from seat belts. During sudden braking or a collision, you can slide under the lap belt and suffer serious internal injuries. For maximum protection, sit well back and upright.

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

Your front passenger seat has 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 result in serious injury. Always sit upright against the seatback with your feet on the floor.

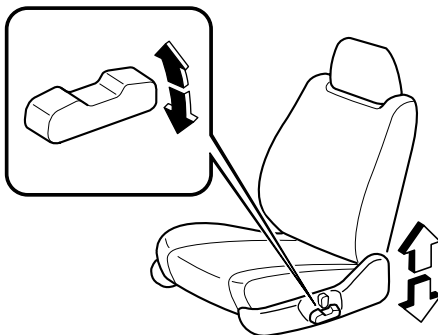
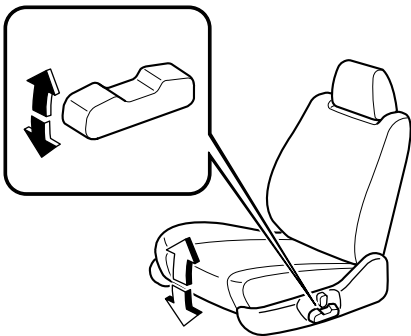
Seats

To change the seatback angle, press the front or rear side of the reclining switch. Release the switch at the desired position.



▼ Height Adjustment (Driver's Seat)

To adjust the seat height, move the switch up or down.

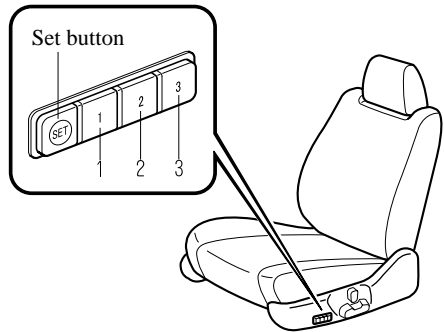


▼ Seat Position Memory*

One-touch seat position programming and activation is available on the driver's seat.

⚠ CAUTION

When activating the seat position, do not place your hands or fingers around the seat bottom. The seat moves to the desired position automatically, and if your hands or fingers are placed around the seat bottom, it could cause injury.



Programming of the driver's seat positions is possible using the following functions:

- Programming buttons 1, 2, or 3 and the SET button.
- Operation using the advanced key/retractable type key

Programmed seat positions can be activated using the following functions:

- Programming buttons 1, 2, or 3.
- Operation using advanced keyless functions/keyless entry system

NOTE

Individual seat positions can be programmed to the three available programming buttons on the side of the driver's seat, plus one seat position for each advanced key/retractable type key used with the vehicle.

Operation using the seat-side buttons

Programming

Park the vehicle in a safe location before performing the seat position programming. (Vehicle must be stopped)

1. Adjust the seat to the desired position.
For each seat position adjustment method refer to the following pages:
Seat Slide (page 2-5)
Seat Recline (page 2-5)
Height Adjustment (page 2-6)
2. While holding the SET button in, press the desired programming button 1, 2, or 3 until a beep sound is heard.
The button is programmed after a beep sound is heard. Other buttons can be programmed using the same procedure.

NOTE

*Vehicle maintenance or other reasons requiring the vehicle battery to be disconnected will result in the seat position memory being erased.
In this case, re-program the seat positions.*

Setting the driver's seat to a pre-programmed position

There are two methods for setting the driver's seat to a pre-programmed position. For example, the type A method can be used before sitting in the seat and while the driver's door is open, and the type B method can be used after getting in the vehicle with the driver's door closed.

TYPE A

When the ignition switch is in the LOCK position and the driver's door is open, press the programming button 1, 2, or 3 for the desired seating position.

NOTE

In the following cases, the seat position set function cancels:

- Any of the seat adjustment switches are operated.
- The SET button is pressed.
- A programming button 1, 2, or 3 is pressed.
- The vehicle starts moving.
- Vehicle locking/unlocking is done using the transmitter.
- Vehicle locking/unlocking is done using the advanced keyless functions.

TYPE B

When the ignition switch is in the ON position or the driver's door is closed, press and hold the desired programming button 1, 2, or 3.

NOTE

In the following cases, the seat position set function cancels:

- Any of the seat adjustment switches are operated.
- The SET button is pressed.
- The vehicle starts moving.


Operation using the advanced key/retractable type key

Programming

One seat position can be programmed into each advanced key/retractable type key. After the following conditions have been met, operate the seat and the advanced key/retractable type key to program the seat positions.


- The ignition switch is in the LOCK position
(The auxiliary key/retractable type key is removed from the ignition switch)
- The driver's door is open

Seats

1. Adjust the seat to the desired position.
For each seat position adjustment method, refer to the following pages:
Seat Slide (page 2-5)
Seat Recline (page 2-5)
Height Adjustment (page 2-6)
2. While holding the SET button in, press and hold the  button on the advanced key/retractable type key until a beep sound is heard.
The advanced key/retractable type key is programmed after a beep sound is heard.



Seat position memory setting procedure

To set the driver's seat to pre-programmed position, turn the ignition switch to the LOCK position, unlock the doors using any of the following methods, and then open the driver's door within about 40 seconds.


- Press the  button on the advanced key/retractable type key.
- Press the request switch on a front door or liftgate while the advanced key is being carried.

NOTE

If any of the following occurs, the seat position activation function cancels:

- The  /  button on the advanced key/retractable type key is pressed while the key is not inserted into the ignition switch.
- A seat adjustment switch is operated.
- The vehicle starts moving.
- The selected programming button 1, 2, or 3 is pressed.
- Vehicle unlocking is done using the advanced keyless functions.
- The SET button is pressed.

Erasing memory

After the following conditions have been met, while holding the SET button in, press the  button on the advanced key/retractable type key until a beep sound is heard.

- The ignition switch is in the LOCK position
(The auxiliary key/retractable type key is removed from the ignition switch)
- The driver's door is open

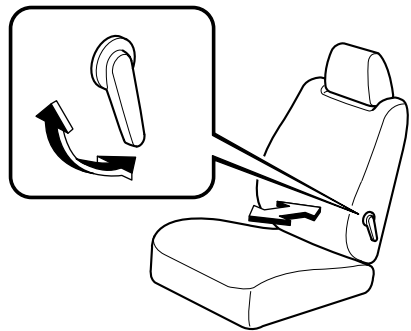
NOTE

Memory will also be erased if any of the following operations are performed:

- The advanced key/retractable type key code has been changed.
Refer to Immobilizer System (with Advanced Key) on page 3-52.
Refer to Immobilizer System on page 3-56.
- The vehicle battery is disconnected for vehicle maintenance or other reasons.

▼ Lumbar Support Adjustment

To increase the seat firmness, pull the lever forward. Push the lever backward to decrease firmness.



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.

Do not drive with the seatback unlocked:

All of the seatbacks play 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.

CAUTION

Be careful not to place your hands and fingers around moving parts of the rear seat when adjusting the seat positions to prevent 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.

Seats

▼ Split-Folding Rear Seatback

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

To fold down the seatbacks

⚠ WARNING

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

Operating (pulling) 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 (pulling) the remote handle levers:

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

⚠ CAUTION

Before folding the seatbacks down 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:

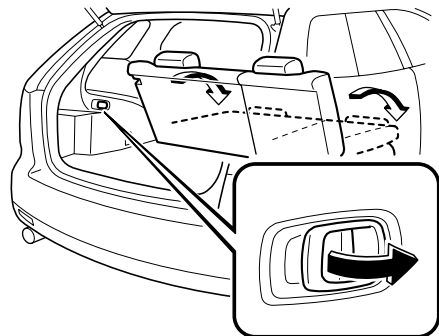
- *On a downward slope, the seatback could flip forward faster than on a flat surface.*
- *On an upward slope, the seatback may not fold down. When the seatbacks cannot be folded down with levers, pull the rear seatback forward from inside the vehicle.*

1. Unfasten the lap portion of the center-rear seat belt (page 2-23).

⚠ 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 sides of the liftgate compartment.



When using the rear seatback knobs:

⚠ CAUTION

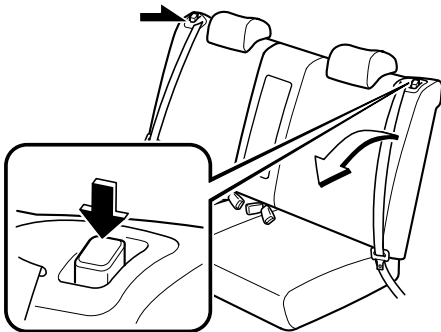
When operating the rear seatback knob, make sure you support the seatback with your hand. If the seatback is not supported with your hand, it will flip forward suddenly and could cause injury to the finger that pushes the rear seatback knob down.

1. Unfasten the lap portion of the center-rear seat belt (page 2-23).

⚠ 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.
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 2-23).

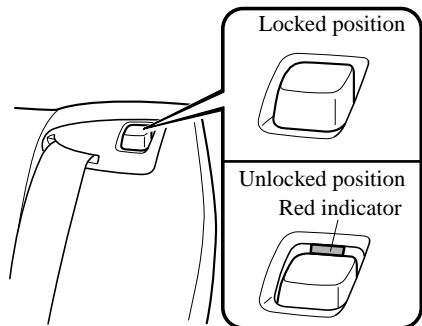
⚠ WARNING

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.

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

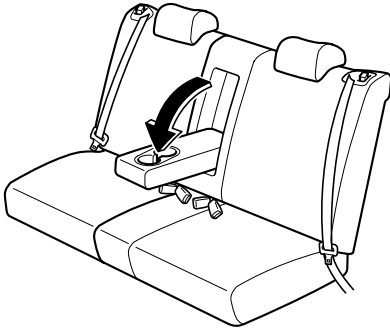
A rear seatback not fully returned and locked in the upright position is dangerous. Sudden stops or maneuvering could cause a seatback to flip forward suddenly resulting in injury. If the red indicator is visible on the back of the rear seatback knob, the seatback is not locked in the upright position.



Seats

▼ Armrest

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



Head Restraints

Your vehicle is equipped with head restraints on all outboard seats. The head restraints are intended to help protect you and the passengers from neck injury.

⚠ 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.

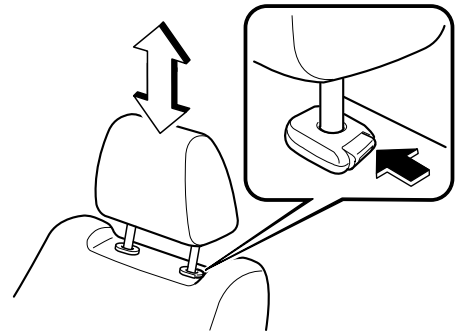
Height adjustment

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

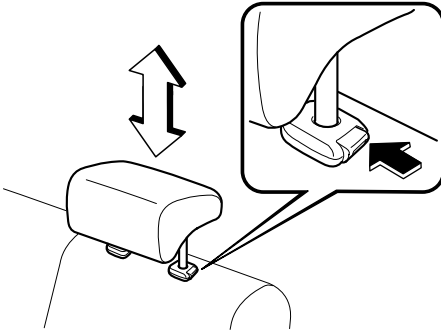
To lower the head restraint, press the stop-catch release, then push the head restraint down.

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

Front outboard seat



Rear outboard seat



Removal/Installation

To remove the head restraint, pull it up while pressing the stop-catch.
To install the head restraint, press the uprights into the holes while pressing the stop-catch.

⚠ WARNING

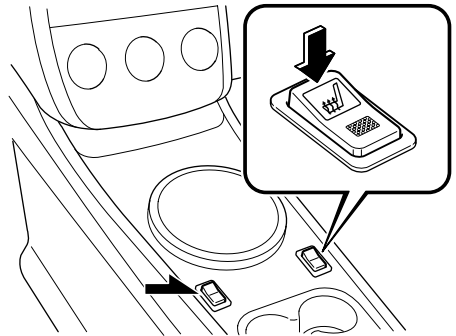
Always drive with the head restraints set up when seats are being used and make sure they are properly set up:

Driving with the head restraints not set up is dangerous. With no support behind your head, your neck could be seriously injured in a collision.

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.



*Some models.

Seats

WARNING

- Be careful when using the seat warmer. The heat from the seat warmer may be too hot for some people, as indicated below, and could cause a low-temperature burn.
 - Infants, small babies, elderly people, and physically challenged people
 - People with delicate skin
 - People who are excessively fatigued
 - People who are drunk
 - People who have taken sleep-inducing medicine such as sleeping pills or cold medicine
- Do not use the seat warmer with anything having high moisture-retention ability such as a blanket or cushion on the seat. The seat may be heated excessively and cause a low-temperature burn.
- Do not use the seat warmer even when taking a short nap in the vehicle. The seat may be heated excessively and cause a low-temperature burn.
- Do not place heavy objects with sharp projections on the seat, or insert needles or pins into it. This could cause the seat to become excessively heated and result in injury from a minor burn.

CAUTION

Do not use organic solvents to clean the seat. It may damage the seat surface and the heater.

NOTE

Use the seat warmer when the engine is running, and do not continue to use it for a long period of time.

The temperature of the seat warmer cannot be adjusted beyond High and Low because the seat warmer is controlled by a thermostat.

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.

Seat Belt Systems

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 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.

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.

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. Have an Authorized Mazda Dealer inspect all seat belt systems in use during an accident before they are used again.

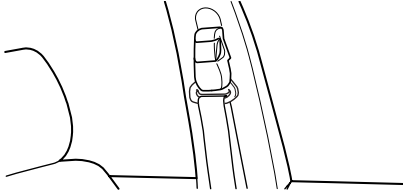
Have your seat belts changed immediately if the pretensioner or load limiter has been expended:

One or both front air bags may deploy, and the corresponding pretensioner(s) may also deploy at the same time. Like the air bags, the front seat belt pretensioners will only function once. While it is safer to use a post-crash (a seat belt that was used in an accident) than no front seat belt at all, using a front seat belt with an expended pretensioner or load limiter loaded reduces the safety available to you. If the front seat belt pretensioners are not replaced, the risk of injury in a collision will increase. Expended front 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. Always have an Authorized Mazda Dealer inspect the front seat belt pretensioners and air bags after any collision.

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 8-62).



▼ 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.



▼ 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 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.

If the belt is locked and cannot be pulled out, retract the belt once, and then try pulling it out slowly. If this fails, pull the belt strongly one time and loosen, then pull it out again slowly.

Seat Belt Systems

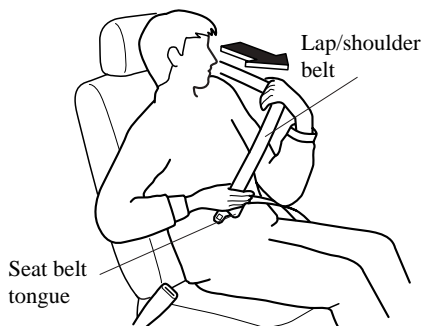
▼ Automatic Locking Mode

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 2-29).

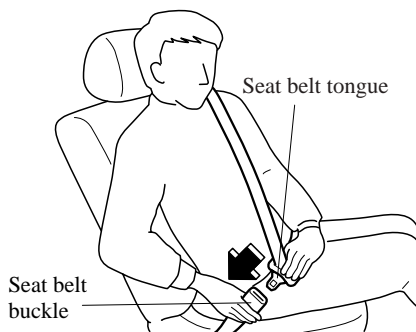
Seat Belt (Except Center-Rear Position)

▼ Fastening the Seat Belt

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



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

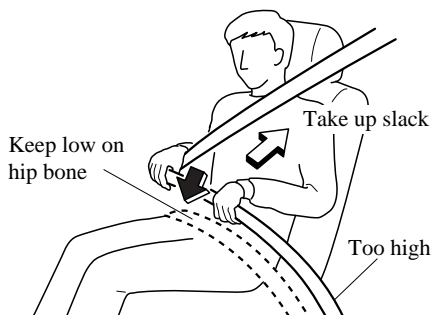


⚠ WARNING

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

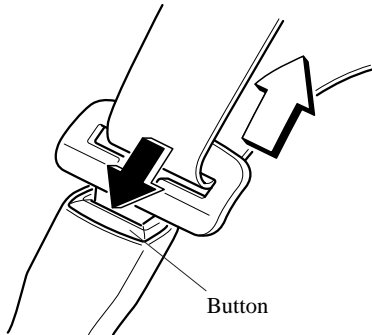
Positioning the Lap Portion of the Seat Belt:

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 seat belt 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.

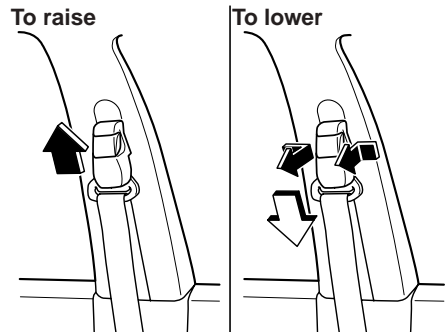


NOTE

- When using the center-rear seat belt, refer to “Center-Rear Position Seat Belt” (page 2-23).
- 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.

▼ Front 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 2-53). 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 2-56).

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 2-19).

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. Like the air bags, the front seat belt pretensioners will only function once. While it is safer to use a post-crash (a seat belt that was used in an accident) than no front seat belt at all, using a front seat belt with an expended pretensioner or load limiter loaded reduces the safety available to you. If the front seat belt pretensioners are not replaced, the risk of injury in a collision will increase. Expended front 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. Always have an Authorized Mazda Dealer inspect the front seat belt pretensioners and air bags after any collision.

Seat Belt Systems

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.

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 working properly, the warning light illuminates when the ignition switch is turned to the ON position or after the engine is cranked. The warning light turns off after a specified period of time.

A system malfunction is indicated if the warning light constantly flashes, constantly illuminates or does not 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 the air bag/front seat belt pretensioner systems and the warning light, a warning beep sound will be heard for about 5 seconds every minute.

The air bag and seat belt pretensioner system warning beep sound will continue to be heard for approximately 35 minutes. Have your vehicle inspected at an Authorized Mazda Dealer as soon as possible.

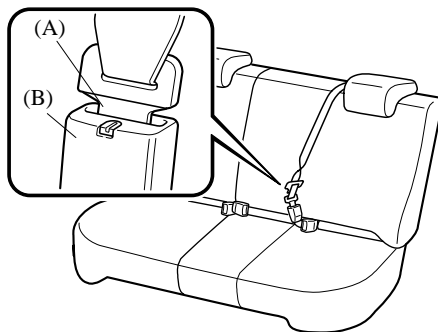
⚠ WARNING

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.

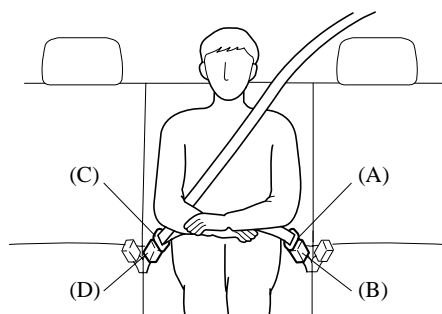
Center-Rear Position Seat Belt

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



Seat Belt Systems

⚠ 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 tongues and buckles is fastened (either seat belt tongue (C) and seat belt anchor buckle (D) or seat belt tongue (A) and seat belt buckle (B)), then 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.

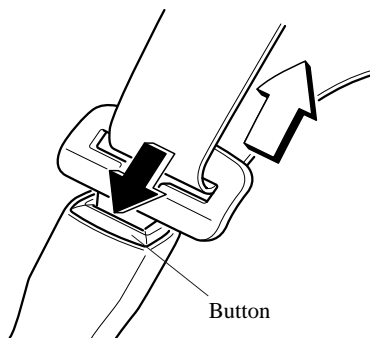
⚠ WARNING

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 seat belt 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.

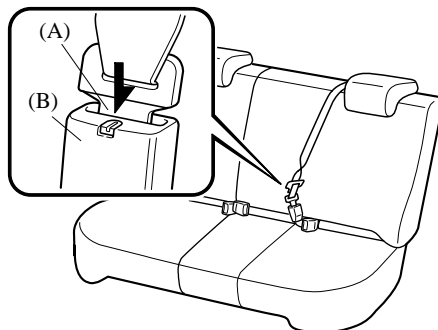


NOTE

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.

▼ Retracting the Center Seat Belt to Lower the Seatbacks for Carrying Cargo

To retract the center belt and lower the seatbacks for carrying cargo, insert a small object such as a key in the seat belt 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, seat belt buckle and seatback.

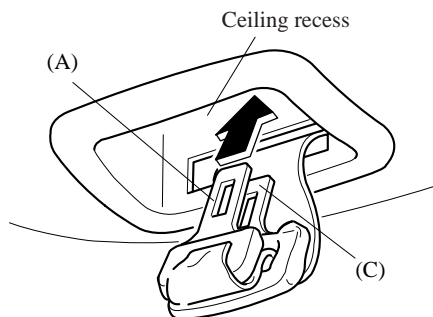
▼ Stowing and pulling out the Center-Rear Position Seat Belt

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

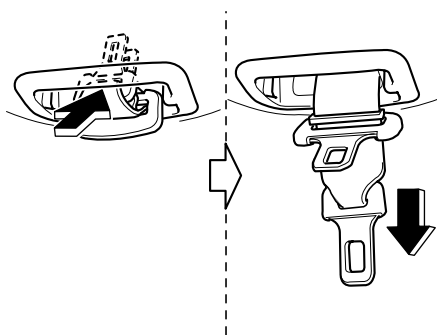
CAUTION

When stowing the seat belt, make sure the belt is locked securely into the recess. If the seat belt is not properly stowed, it might get caught in the seats and be damaged.

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



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



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.
- Pulling the seat belt all the way out will switch it to automatic locking mode. If automatic locking mode is not needed, retract the seat belt fully to convert it back to emergency locking mode.

▼ Re-attaching the Seat Belt after the Rear Seatbacks are Returned to their Upright Positions

To re-attach the center seat belt after the rear seats are returned to their upright positions, grasp the seat belt tongue (A) and insert it into the seat belt anchor buckle (B) until you hear a click sound. 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.

Seat Belt Systems

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. If you sell your Mazda, do not leave your seat belt extender in the vehicle. It could be used accidentally by the new owner of the vehicle. After removing the seat belt extender, discard it. Never use the seat belt extender in any other vehicle you may own in the future.

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 15 cm (6 in).

Do not leave a seat belt extender connected to the buckle:

Leaving a seat belt extender connected to the buckle without using the seat belt is dangerous. When the seat belt extender is connected to the driver's seat belt buckle (or front passenger) seat, the SRS driver's (or front passenger's) air bag system will determine that the driver (or front passenger) is wearing the seat belt even if the driver (or front passenger) is not wearing it. This condition could cause the driver's (or front passenger's) air bag to not activate correctly and result in death or serious injury in the event of collision. Always wear the seat belt with the seat belt extender.

Do not use the seat belt extender when installing a child-restraint system on the front or rear passenger seat:

Using a seat belt extender to fasten a child-restraint system on any seat is dangerous. Always follow the child-restraint system manufacturer's installation instructions and never use a seat belt extender.

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 or restore the seat belt minder.

Seat Belt Systems

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.

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
- × : Unfastened
- ☼ : 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, the front passenger seat weight sensors work as a part of the supplemental restraint system. This system deactivates 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 front and side air bags and seat belt pretensioner system, 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 2-56).

Child Restraint

⚠ 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:

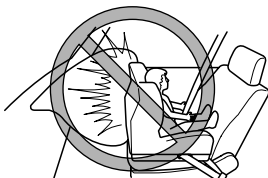
An unsecured child-restraint system is dangerous. In a sudden stop or a collision it could move causing serious injury or death to the child or other occupants. Make sure any child-restraint system is properly secured in place according to the child-restraint system manufacturer's instructions. When 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 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.



Do not install a front-facing child-restraint system on the front passenger seat unless it is unavoidable:

In a collision, the force of a deploying air bag could cause serious injury or death to the child. If installing a front-facing child-restraint system on the front passenger seat is unavoidable, move the front passenger 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 the front passenger seat weight sensors, if you must use the front passenger seat to seat a child, using a child in 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.*
- *Heavy items are placed in the seatback map pocket.*
- *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 designated positions with seat belts on the rear seats are the safest places for children. Always use seat belts and child restraints.

Child Restraint

Do not allow a child or anyone 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. The impact of inflation from a side or curtain air bag could cause serious injury or death to an out of position 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. Take special care not to 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 2-39).

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 2-56), 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 2-39).

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 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 2-39).

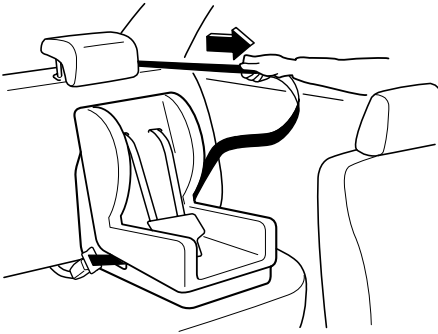
NOTE

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 use LATCH system instead of seat belts or if the belt goes across the child's chest, may recommend against using automatic locking mode.

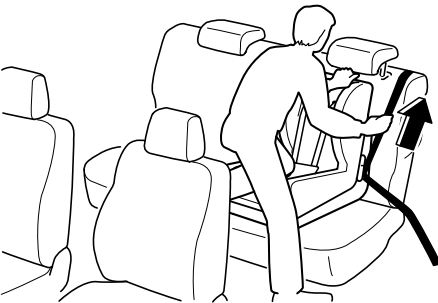
1. Make sure the seatback is securely latched by pushing it back until it is fully locked.
2. Raise the head restraint to the top locked position (except center seat position). Refer to Head Restraints on page 2-12.
3. Secure the child-restraint system with the lap portion of the lap/shoulder belt. See the manufacturer's instructions on the child-restraint system for belt routing instructions.

Child Restraint

4. 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.



5. Push the child-restraint system firmly into the vehicle seat. Be sure the belt retracts as snugly as possible. A clicking noise 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.

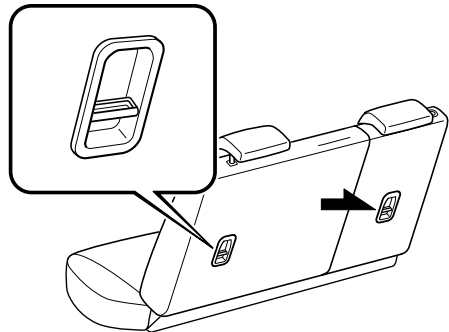


NOTE

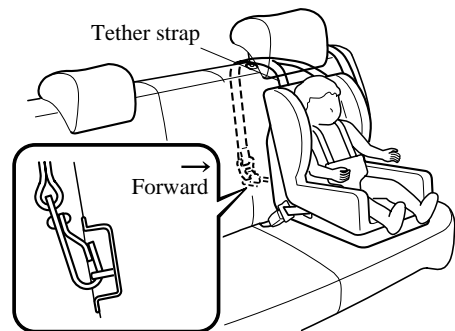
Inspect this function before each use of the child-restraint system. You should not be able to pull the shoulder belt out of the retractor while the system is in the automatic locking mode. When you remove the child-restraint system, be sure the belt fully retracts to return the system to emergency locking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

6. If your child-restraint system requires the use of a tether strap, refer to the manufacturer's instructions to hook and tighten the tether strap.

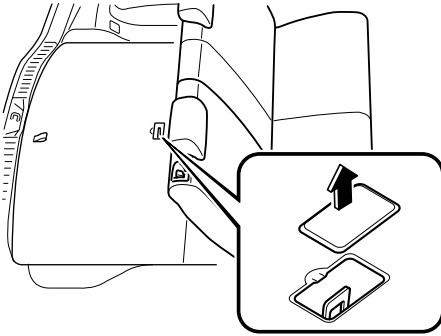
Anchor bracket location (Outboard)



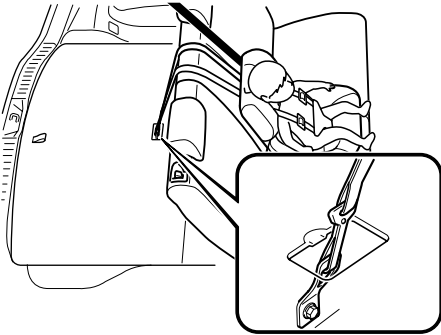
Tether strap position (Outboard)



Anchor bracket location (Center)



Tether strap position (Center)



⚠ 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 (Except center position):

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.

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.

Child Restraint

▼ 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.

Do not 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:
Mazda vehicles equipped with curtain air bag will have an "SRS AIRBAG" marking on the 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 because 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.

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.

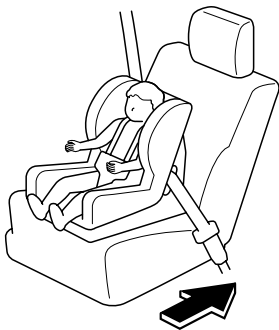
Even though you may feel assured that the front passenger air bag will not deploy based on the fact that the front passenger air bag deactivation indicator light illuminates.

Do not allow a child or anyone 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. The impact of inflation from a side or curtain air bag could cause serious injury or death to an out of position 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. Take special care not to 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. A clicking noise 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.*

Child Restraint

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 2-56.



⚠ WARNING

Do not seat a child in a child-restraint system on the front passenger seat if the front passenger air bag deactivation indicator light does not illuminate:

While it is always better to install any child-restraint system on the rear seat, it is imperative that a child-restraint system **ONLY** be used on the front passenger seat if the deactivation indicator light illuminates when the child is seated in the child-restraint system (page 2-56). 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 in a child-restraint system sitting in the front passenger seat could be seriously injured or killed. If the indicator light does not illuminate after seating a child in a child-restraint system on the front passenger seat, seat a child in a child-restraint system on the rear seat and consult an Authorized Mazda Dealer as soon as possible.

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.

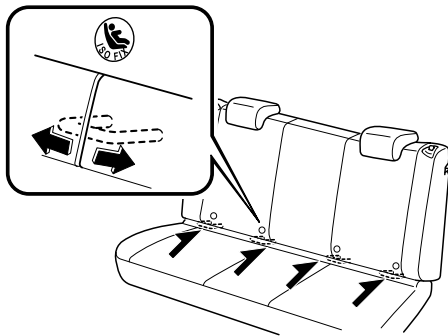
Make sure there are no seat belts or foreign objects near or around the LATCH child-restraint system:

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

▼ 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.



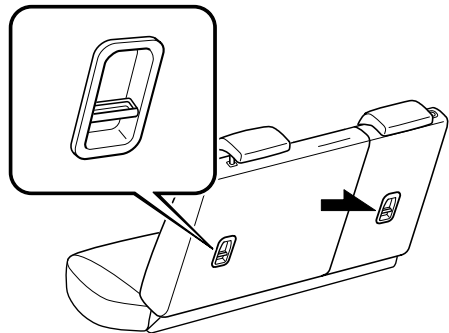
NOTE

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

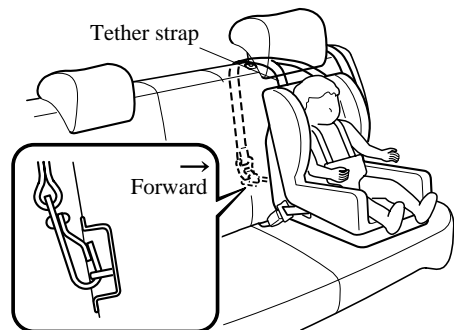
3. Raise the head restraint to the top locked position. Refer to Head Restraints on page 2-12.
4. Secure the child-restraint system using BOTH LATCH lower anchors, following the child-restraint system manufacturer's instruction. Pull on the child-restraint to be sure both anchors are engaged.

5. If your child-restraint system came equipped with a tether, that 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



⚠ 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.

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.

▼ 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.

Child Restraint

⚠ WARNING

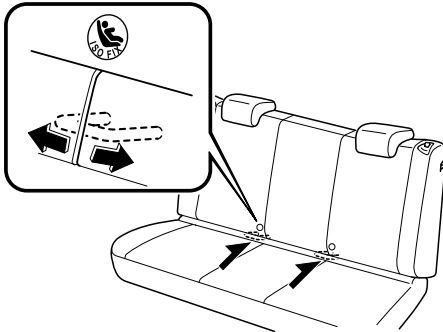
Use the tether and tether anchor only for a child-restraint system:

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 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.

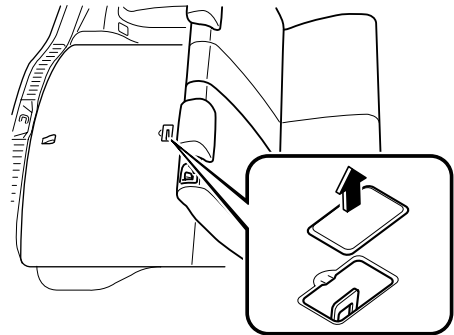


NOTE

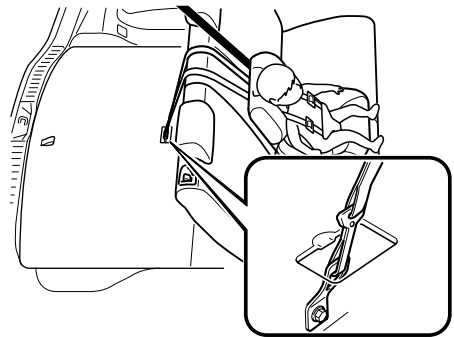
The markings above the LATCH lower anchors indicate the locations of LATCH lower anchors for the attachment of a child-restraint system.

3. Secure the child-restraint system using BOTH LATCH lower anchors, following the child-restraint system manufacturer's instructions. Pull on the child-restraint to be sure both anchors are engaged.
4. If your child-restraint system came equipped with a tether, that 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



Supplemental Restraint System (SRS) Precautions

The front and side supplemental restraint systems (SRS) include 6 air bags. **Please verify the air bags equipped on your vehicle by locating the “SRS AIRBAG” location indicators.** These indicators are visible in the area where the air bags are installed.

The air bags are installed in the following locations:

- 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:

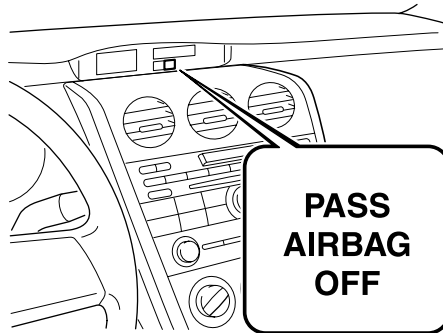
Without seat belt usage, the air bags cannot provide adequate protection during an accident. Seat belt usage is necessary to:

- 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.

SRS Air Bags

If your vehicle is also equipped with a driver and front passenger occupant classification system, refer to the Driver and Front Passenger Occupant Classification System (page 2-56) for details.

If your vehicle is equipped with a driver and front passenger occupant classification system, the front passenger air bag deactivation indicator light illuminates for a specified time after the ignition is switched ON.



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 2-29).

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:

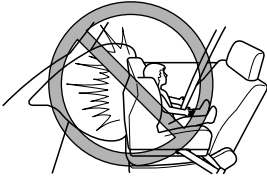
Depending only on the air bags for protection during an accident is dangerous. Alone, air bags may not prevent serious injuries. The appropriate air bags can be expected to inflate only in the first accident, such as frontal, near frontal, side collisions or roll-over accident that are at least moderate. 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 collision to the front-passenger side of the vehicle. Whenever possible, always secure a child 12 years and under on the rear seat with an appropriate child-restraint system for the child's age and size.

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.

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, or 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 expanding 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.

SRS Air Bags

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

Attaching objects 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 releasing the gas.

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 releasing the gas.

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.

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

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

Do not touch the components of the supplemental restraint system after the air bags have inflated:

Touching the components of the supplemental restraint system after the air bags have inflated is dangerous. Immediately after inflation, they 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.

To prevent false detection by the air bag sensor system, heed the following:

- **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 10-7) 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.
- **Do not drive the vehicle off-road:**
Driving your Mazda off-road is dangerous because the vehicle has not been designed to do so. 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.

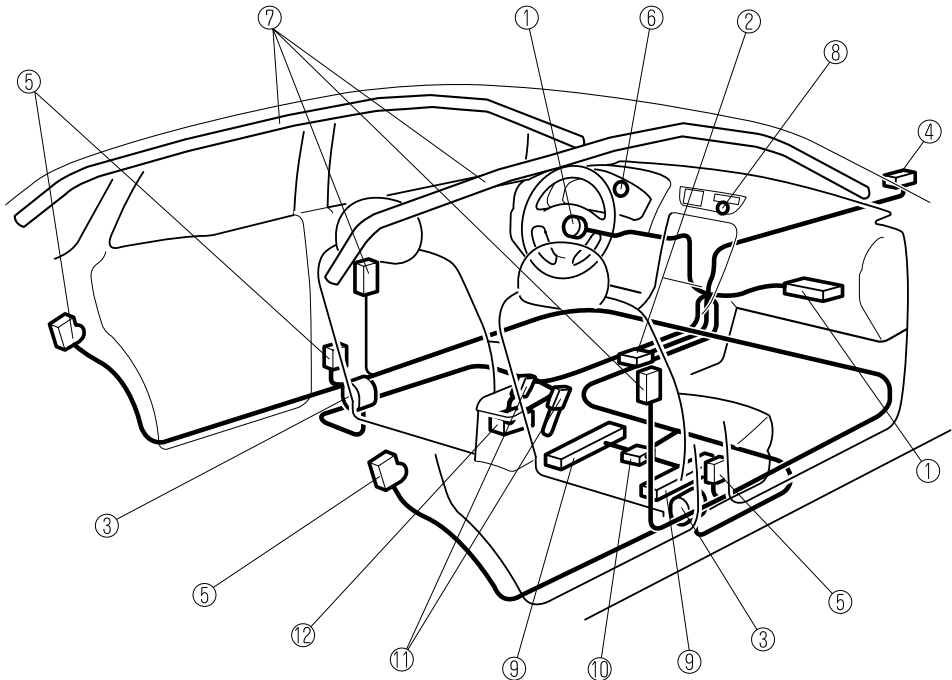
Do not modify the supplemental restraint system:

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/Front passenger dual stage inflators and air bags
- ② Crash and roll-over sensor, and diagnostic module (SAS unit)
- ③ Front seat belt pretensioner and load limiting systems (page 2-21)
- ④ Front air bag sensor
- ⑤ Side crash sensors
- ⑥ Air bag/front seat belt pretensioner system warning light (page 2-52)
- ⑦ Side and curtain inflators and air bags
- ⑧ Front passenger air bag deactivation indicator light (page 2-56)
- ⑨ Front passenger seat weight sensors (page 2-56)
- ⑩ Front passenger seat weight sensor control module
- ⑪ Driver and front passenger seat belt buckles (page 2-60)
- ⑫ Driver seat slide position sensor (page 2-56)

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

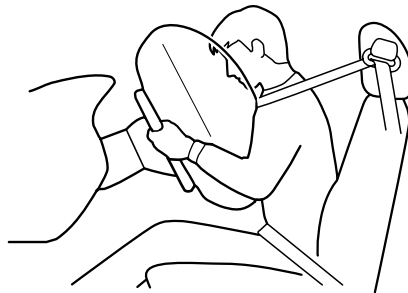
The front seat belt pretensioners are designed to deploy in moderate or severe frontal, near frontal collisions or roll-over accidents.

▼ Driver Air Bag

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



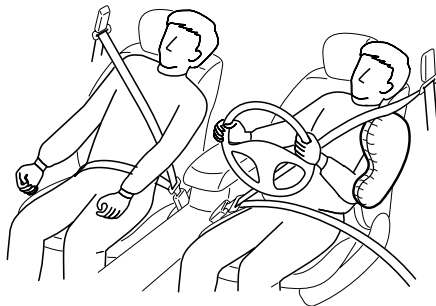
▼ Front Passenger Air Bag

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 2-56).



▼ Side Air Bags

The side air 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 2-56).



▼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:

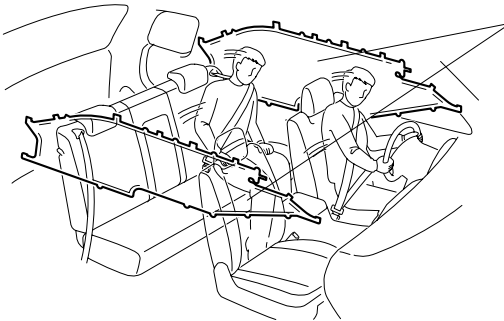
Greater than moderate impact to one side of the vehicle will cause the curtain air bag on that side only to inflate.



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 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 working properly, the warning light illuminates when the ignition switch is turned to the ON position or after the engine is cranked. The warning light turns off after a specified period of time.

A system malfunction is indicated if the warning light constantly flashes, constantly illuminates or does not 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 the air bag/front seat belt pretensioner systems and the warning light, a warning beep sound will be heard for about 5 seconds every minute.

The air bag and seat belt pretensioner system warning beep sound will continue to be heard for approximately 35 minutes.

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

⚠ WARNING

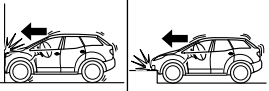
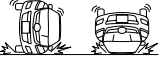
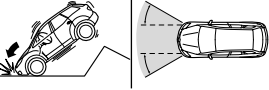
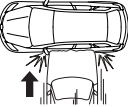


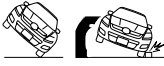
Do not drive the vehicle with the air bag/front seat belt pretensioner system warning beep sounding:

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 cases of collisions.)

	Types of collision			
	A severe frontal/near frontal collision	A severe side collision	A roll-over/near roll-over	A rear collision
SRS equipment				
				
				
Front seat belt pretensioner	X ^{*1} (both sides)		X ^{*1} (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 ^{*1}			
Side air bag		X ^{*1} (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.

^{*1}: 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.

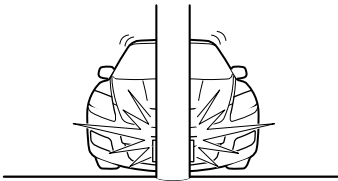
Limitations to SRS Air Bag

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.

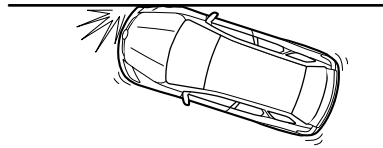
Limitations to front/near front collision detection:

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.

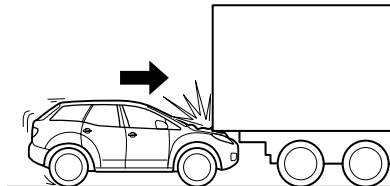
Impacts involving trees or poles



Frontal offset impact to the vehicle



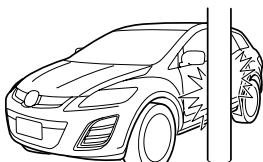
Rear-ending or running under a truck's tail gate



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



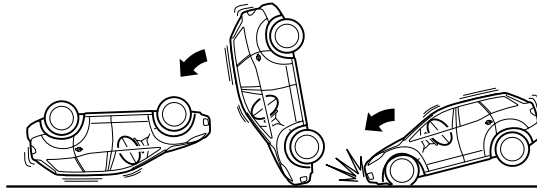
Side impacts with two-wheeled vehicles



Limitations to roll-over detection:

The following illustration is an example of an accident 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 2-43) 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 SAS unit is 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 2-52).

▼ 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 SAS unit is 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 lbs).

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:

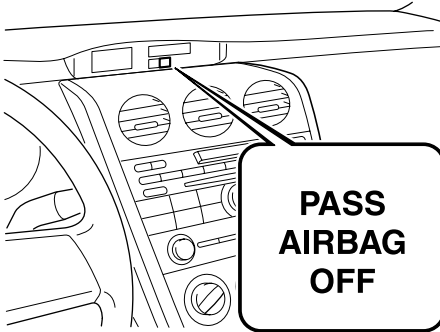
- There is no passenger in the front passenger seat. (The front passenger air bag deactivation indicator light does not illuminate.)
- The total seated weight on the front passenger seat is less than approximately 30 kg (66 lbs). (The front passenger air bag deactivation indicator light illuminates.)

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 lbs)	ON	Deactivated	Deactivated
Approx. 42 kg (93 lbs) 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. The 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 lbs) 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 lbs) 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 their 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 lbs) and they will reactivate before the weight exceeds 42 kg (93 lbs).

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 lbs) 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 lbs) 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 their feet.
- Luggage or other items are placed on the seatback or hung on the head restraint.
- Heavy items are placed in the seatback map pocket.
- 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 lbs) and they will reactivate before the weight exceeds 42 kg (93 lbs).

⚠ 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 2-37).

SRS Air Bags

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:

- Crash sensors, and diagnostic module (SAS unit)
- Front air bag sensor
- Air bag modules
- Side crash sensors
- Air bag/Front seat belt pretensioner system warning light
- Front seat belt pretensioners
- Front passenger air bag deactivation indicator light
- Related wiring
- Driver seat slide position sensor
- Front passenger seat weight sensors
- Front passenger seat weight sensor control module

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 is heard.
- 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 2-56).

SRS Air Bags

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.

Additional functions are available using the buttons on the advanced key.

Refer to Operation Using Advanced Key Functions on page 3-14.

- The following operations are possible using the transmitter of 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 key 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. Children may find these new kinds of keys to be an interesting toy to play with and could cause the power windows or other controls to operate, or even make the vehicle move.

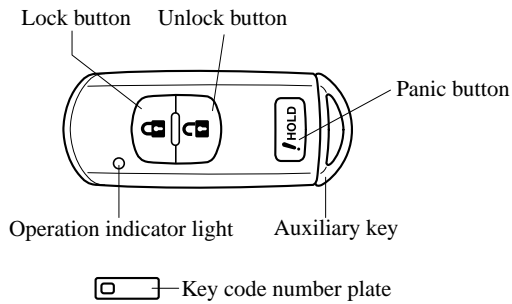
Radio waves from the advanced key may affect medical equipment such as pacemakers:

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 3-52) for information regarding keys and engine starting.*
- ***(With theft-deterrent system)***
Refer to Theft-Deterrent System (page 3-60) 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 or cell phones.
 - 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. Be sure to replace the battery as soon as you see the green **KEY** indicator light in the instrument cluster begin flashing for 30 seconds after turning off the engine, otherwise, you will not be able to start the engine using the advanced keyless start system once the battery is completely dead. Refer to **KEY** warning light (red) on page 5-55. If this occurs, you will have to either force-start the engine or use the auxiliary key. Refer to **Advanced Key Battery Dead Warning** on page 3-20.



- 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.*

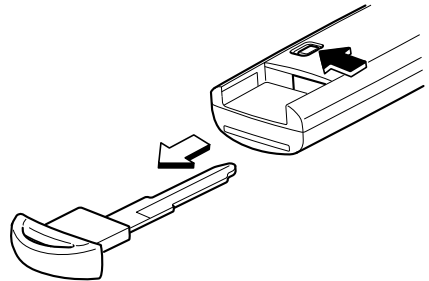
The following conditions indicate that the battery power is low:

- The KEY indicator light (green) flashes in the instrument cluster for about 30 seconds after the engine is turned off.
- The system does not operate and the operation indicator light on the transmitter does not flash when the buttons are pressed.
- The system's operational range is reduced.

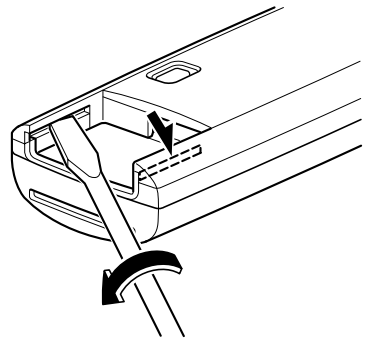
Replacing the battery at an Authorized Mazda Dealer is recommended to prevent damage to the advanced key. If replacing the battery by yourself, follow the instruction below.

Replacing the advanced key battery

1. Pull out the auxiliary key.

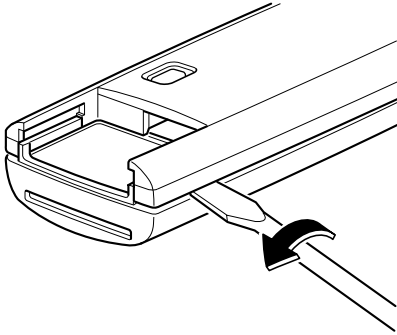


2. Insert a flathead screwdriver into the groove shown in the figure and rotate the screwdriver to open the cover slightly.

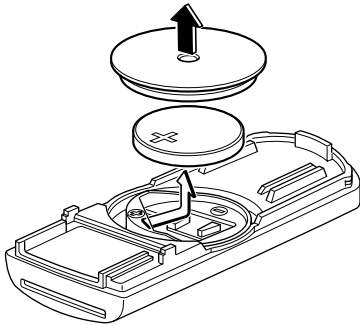


Advanced Keyless Entry and Start System

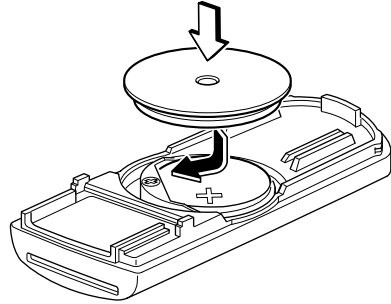
3. Insert the flathead screwdriver into the gap between the cover and the transmitter, and then rotate the screwdriver to detach the cover.



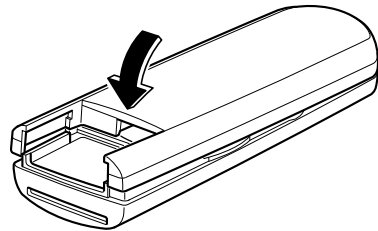
4. Remove the battery cap, then remove the battery.



5. Insert a new battery with the positive pole facing up, and then cover the battery with the battery cap.



6. Close the cover.

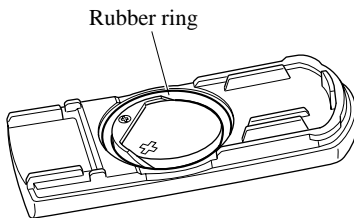


7. Reinsert the auxiliary key.

Advanced Keyless Entry and Start System

⚠ CAUTION

- Be careful not to allow the rubber ring shown in the figure to be scratched or damaged.
- If the rubber ring detaches, reattach it before inserting a new battery.



▼ 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.

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.

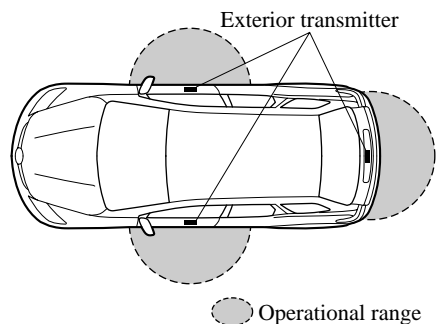
NOTE

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 (31 in) from the center of the front door handles.

The operational range for locking/unlocking the liftgate is an area of up to 80 cm (31 in) from the center of the liftgate.



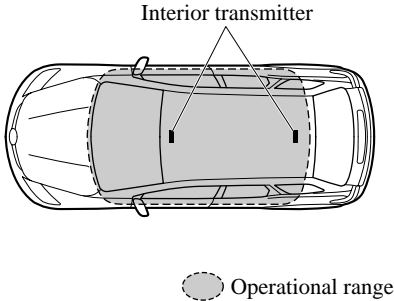
NOTE

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

Advanced Keyless Entry and Start System

Starting the engine

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



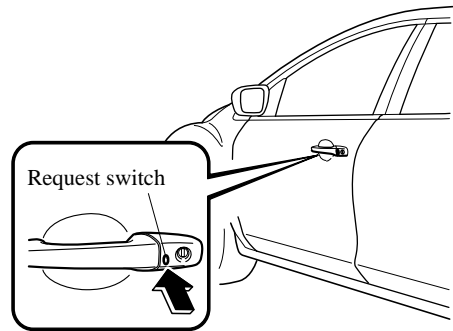
NOTE

- 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 driven away while the advanced key is not in the vehicle, the vehicle will not restart after it is turned off and the ignition switch is turned to the Lock position.
- If the advanced key is detected within operational range, the operation indicator light on the transmitter flashes momentarily.

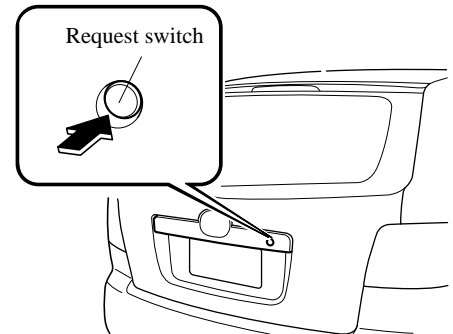
▼ **Locking, Unlocking with Request Switch**

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

NOTE

(Without theft-deterrent system)

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

(With theft-deterrent system)

The hazard warning lights only flash when the theft deterrent system is armed.

The hazard warning lights do not flash if all the doors and the liftgate are locked before the theft-deterrent system is properly armed.

Refer to the theft-deterrent system on page 3-60.

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 only flash when the theft deterrent system is turned off.

The hazard warning lights do not flash unless the theft deterrent system has been properly turned off.

Refer to the theft-deterrent system on page 3-60.

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.

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 3-43)

Opening/Closing the Moonroof (page 3-50)

- 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 you prefer, the beep sound can be turned off (page 3-21).
- The setting can be changed so that the doors and the liftgate are locked automatically without pressing the request switch (page 3-21).

(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 closed and locked before leaving the vehicle.

Advanced Keyless Entry and Start System

- **(Auto re-lock function)**

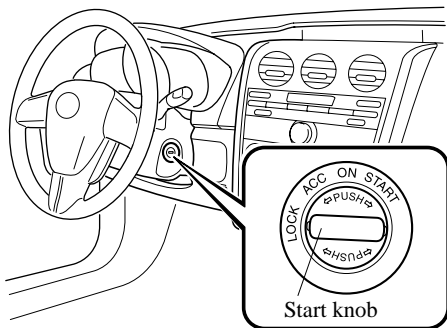
After unlocking doors and the liftgate by pressing the request switch, all doors and the liftgate will automatically lock and the hazard warning light will flash if any of the following operations are not performed within about 30 seconds.

- 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

As there is no 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 put the key or start knob to LOCK position, set the parking brake and make sure the shift lever is in P:

It is important to place the key or start knob in the LOCK position even if you are not removing the key from the ignition or leaving the vehicle. Leaving the key in other positions will disable some of the vehicle security systems and run the battery down.

Leaving the driver's seat without putting the ignition switch in LOCK position, setting the parking brake and shifting the shift lever to P is dangerous. Unexpected vehicle movement could occur. This could cause an accident.

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.

Advanced Keyless Entry and Start System

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 using the transmitter or request switches even if 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 5-44).

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.

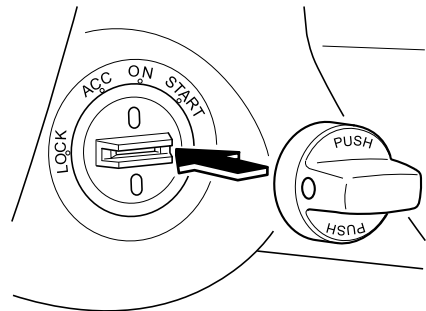
START

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 5-44).

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.



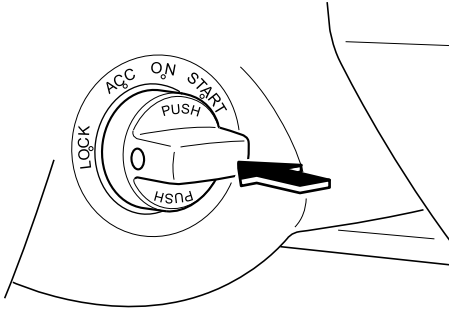
1. Make sure the advanced key is being carried.
2. Occupants should fasten their seat belts.
3. Make sure the parking brake is on.
4. Depress the brake pedal.
5. Put the vehicle in park (P). If you must restart the engine while the vehicle is moving, shift into neutral (N).

Advanced Keyless Entry and Start System

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 using the Advanced Keyless System. You may have to use the auxiliary key instead (page 3-22).

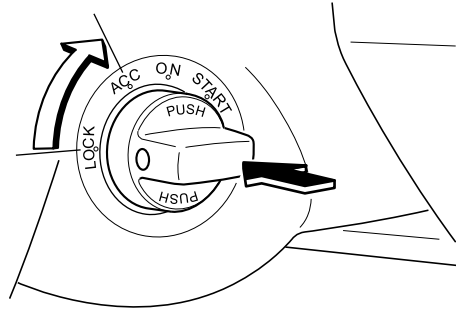


NOTE

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.

CAUTION

Do not 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.

Advanced Keyless Entry and Start System

NOTE

- In extremely cold weather 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.
- If the engine does not start the first time, refer to *Starting a Flooded Engine under Emergency Starting*. If the engine still does not start, have your vehicle inspected by an Authorized Mazda Dealer (page 7-13).

Turning off the engine

1. Move 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 3-7).

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 3-19).

Advanced Keyless Entry and Start System

Operation Using Advanced Key Functions

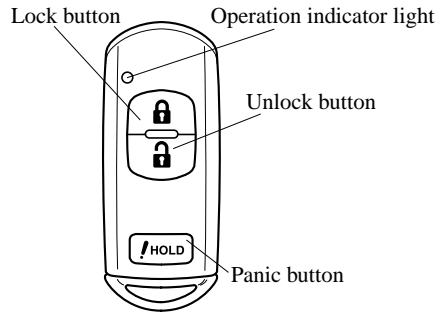
▼ Keyless Entry System

This system uses the more traditional keyless entry buttons to remotely lock and unlock the doors and the liftgate, and opens the power windows, and opens the power windows and the moonroof. It can also help you signal for attention. Press the buttons slowly and carefully.

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 auxiliary key is in the ignition switch.
- 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).

Transmitter



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 3-43)

Opening/Closing the Moonroof (page 3-50)

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.

Advanced Keyless Entry and Start System

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 flash when the theft deterrent system is armed.

The hazard warning lights do not flash if all the doors and the liftgate are locked before the theft-deterrent system is properly armed.

When the doors are locked by pressing the lock button on the transmitter while the theft-deterrent system is armed, the hazard warning lights will flash once to indicate that the system is armed.

Refer to the theft-deterrent system on page 3-60.

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 flash when the theft deterrent system is turned off.

The hazard warning lights do not flash unless the theft deterrent system has been properly turned off.

When the doors are unlocked by pressing the unlock button on the transmitter while the theft-deterrent system is turned off, the hazard warning lights will flash twice to indicate that the system is turned off.

Refer to the theft-deterrent system on page 3-60.

NOTE

(Auto re-lock function)

After unlocking with the transmitter, 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 pressed.

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.

Advanced Keyless Entry and Start System

(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.

Advanced Keyless Entry and Start System

Declaration of Conformity

Keyless entry system

(U.S.A)

FCC WARNING

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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.

(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.

(MEXICO)

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 de acceso normal sin llave

Modelo : SKE125-01

Sistema de acceso normal sin llave con marcado de confirmación por radio

COFETEL RCPMAIM05-615

Sistema de arranque y de acceso avanzado sin llave

Modelo : SKE11A-04

Sistema de arranque y de acceso avanzado sin llave con marcado de confirmación por radio

COFETEL RLYMASK08-1120

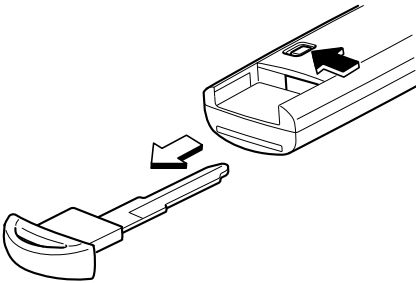
Advanced Keyless Entry and Start System

▼ 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 3-31).

Starting the engine

The engine can be started with the auxiliary key, refer to Ignition Switch (page 5-2).

Advanced Key Suspend Function

If one advanced key is left in the vehicle and a second advanced key is used to lock it, the functions of the advanced key left in the vehicle is 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.

Advanced Keyless Entry and Start System

Warning and Beep Sounds

▼ System Malfunction Warning Light

If any malfunction occurs in the advanced keyless function, the KEY warning light (red) in the instrument cluster illuminates continuously.

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, the car cannot be locked, and the battery will run down.

▼ Advanced Key Removed from Vehicle Warning Beep

Under the following conditions, a beep sound will be heard 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. (A beep sound will be heard three times.)
However the beep sound 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 sound 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. (A beep sound will be heard six times.)

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 within the vehicle.

Advanced Keyless Entry and Start System

▼ Request Switch Inoperable Warning Beep

If the request switch for a front door or the liftgate is pressed under the following conditions 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 or the liftgate 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 3-21).

▼ 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 3-18).

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 ^{*2}	When all doors and the liftgate are closed and the advanced key is being carried and out of operational range, all the 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.

*2: When the autolock function is enabled, windows will not automatically close. You must close them before leaving vehicle.

Advanced Keyless Entry and Start System

When Warning Indicator/Beep is Activated

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 3-19).

Warning	How to 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, three 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 six times, and the KEY warning light (red) in the instrument cluster flashes.	Check whether the advanced key has been removed from the vehicle.
When locking the doors, the chime sounds for about ten seconds.	Check whether the advanced key has been left in the vehicle.
When attempting to lock the doors by pressing the request switch on the front doors, and six beep sounds are heard.	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.

Keys (with Retractable Type Key)

⚠ WARNING

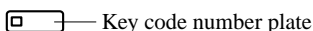
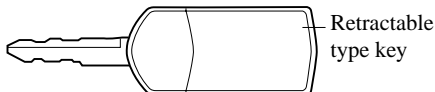
Do not leave the key in your vehicle with children and keep them in a place where your children will not find or play with them:

Leaving children in a vehicle with the key is dangerous. This could result in someone being badly injured or even killed. Children may find these new kinds of keys to be an interesting toy to play with and could cause the power windows or other controls to operate, or even make the vehicle move.

NOTE

- Refer to *Immobilizer System* (page 3-56) for information regarding keys and engine starting.
- **(With theft-deterrent system)**
Refer to *Theft-Deterrent System* (page 3-60) for information regarding keys and the prevention of vehicle and vehicle contents theft.

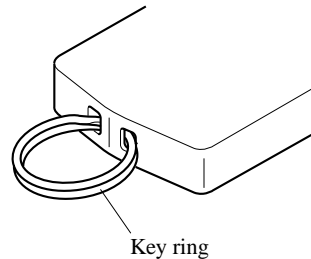
The keys operate all locks.



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

NOTE

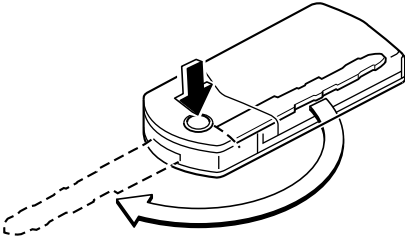
- Write down the code number and keep it in a separate, safe and convenient place, but not in the vehicle.
If your key is lost, consult your Authorized Mazda Dealer and have your code number ready.
- Some types of key chains cannot be attached to the retractable type key. In this case, use the key ring provided with the transmitter which has the key code number plate attached.



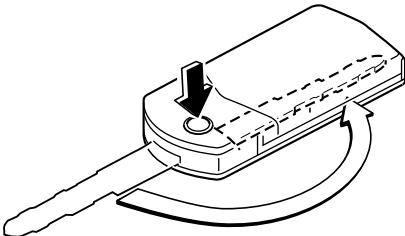
Doors and Locks

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.

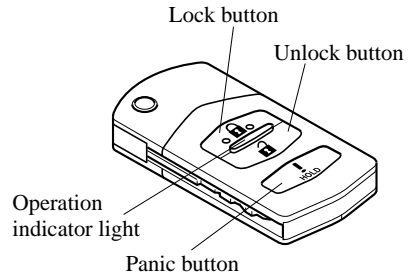
CAUTION

To avoid damage to the transmitter, do not:

- Drop the transmitter.
- Get the transmitter wet.
- Disassemble the transmitter.
- Expose the transmitter to any kind of magnetic field.
- Expose the transmitter to high temperatures on places such as the dashboard or hood, under direct sunlight.

NOTE

- The keyless entry system is designed to operate up to about 2.5 m (8 ft) from the center of the vehicle, but this may vary due to local conditions.
- The system does not operate when the key is in the ignition switch.
- Doors and the liftgate can be locked by pressing the lock button while any other door or the liftgate is open. However, the hazard warning lights will not flash and the horn will not sound.
- 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 3-29).
- 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 additional transmitters are required.

▼ Transmitter**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 3-43)

Opening/Closing the Moonroof (page 3-50)

The operation indicator light flashes when the buttons are pressed.

Lock button

To lock the doors and the liftgate, press the lock button.

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.

Doors and Locks

NOTE

- Pressing the transmitter lock button to lock the doors while any door is open does not sound the horn.
- **(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 flash when the theft deterrent system is armed.
The hazard warning lights do not flash if all the doors and the liftgate are locked before the theft-deterrent system is properly armed.
When the doors are locked by pressing the lock button on the transmitter while the theft-deterrent system is armed, the hazard warning lights will flash once to indicate that the system is armed.
Refer to the theft-deterrent system on page 3-60.

NOTE

- All doors and the liftgate cannot be locked when 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.

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 flash when the theft deterrent system is turned off.

The hazard warning lights do not flash unless the theft deterrent system has been properly turned off.

When the doors are unlocked by pressing the unlock button on the transmitter while the theft-deterrent system is turned off, the hazard warning lights will flash twice to indicate that the system is turned off.

Refer to the theft-deterrent system on page 3-60.

NOTE

Auto re-lock function

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.

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.

Doors and Locks

Declaration of Conformity

Keyless entry system

(U.S.A)

FCC WARNING

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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.

(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.

(MEXICO)

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 de acceso normal sin llave

Modelo : SKE125-01

Sistema de acceso normal sin llave con marcado de confirmación por radio

COFETEL RCPMAIM05-615

Sistema de arranque y de acceso avanzado sin llave

Modelo : SKE11A-04

Sistema de arranque y de acceso avanzado sin llave con marcado de confirmación por radio

COFETEL RLVMASK08-1120

▼ 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.

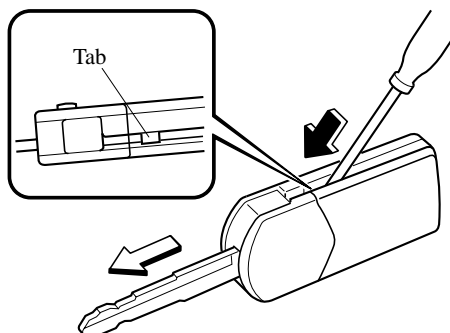
CAUTION

- 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.

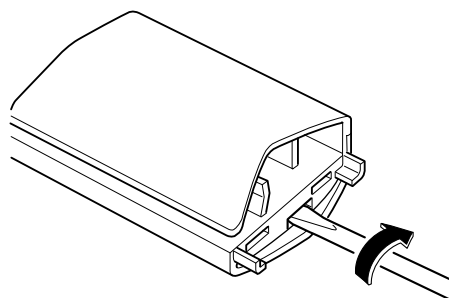
Replacing the transmitter battery

1. Unfold the key (page 3-23).

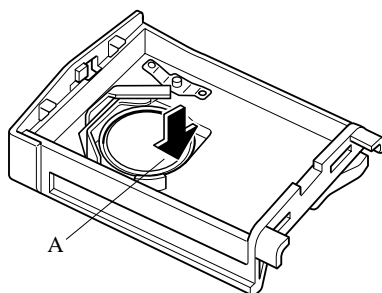
2. Insert a screwdriver into the slot and push the tab to remove the key from the transmitter.



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

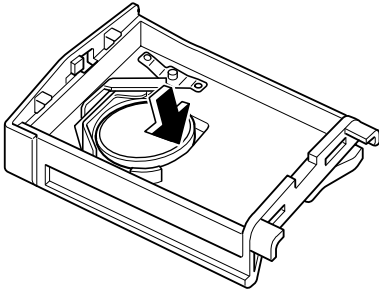


4. Remove the battery.

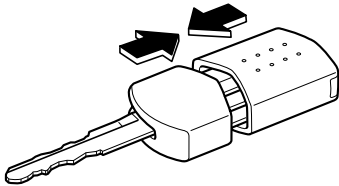


Doors and Locks

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



- Align the front and back covers and snap the transmitter shut.
- Align the key with the transmitter as shown in the figure, and insert the key until a click sound is heard.



⚠ CAUTION

Insert the key into the transmitter securely until a click sound is heard. If it is not inserted securely, it could detach from 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.

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 key 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.

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.

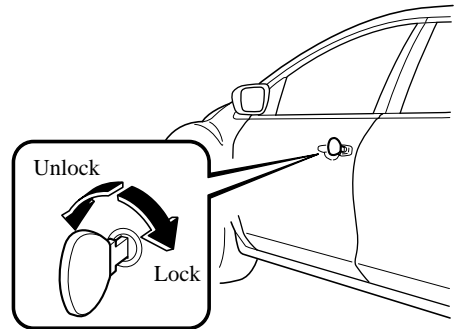
Always close all the windows and the moonroof, lock the doors and take the key with you when leaving your vehicle unattended:

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 3-24).

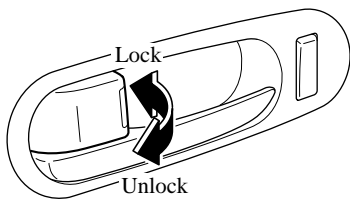
Doors and Locks

▼ Locking, Unlocking with Door-Lock Knob

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

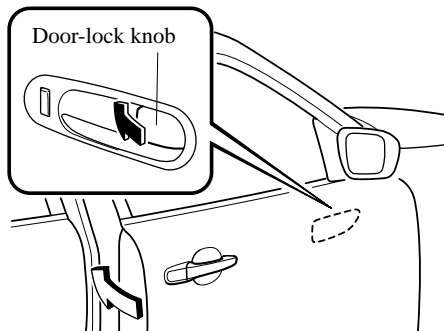
To unlock, pull it out.

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)

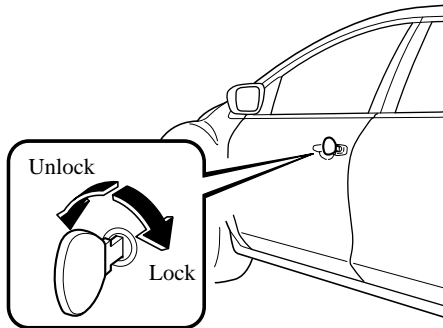
The vehicle lock-out prevention feature prevents you from locking yourself out of the vehicle. All doors and the liftgate will automatically unlock if they are locked using the power door locks with any door or the liftgate open.

(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 either front door open.

Locking, unlocking with key

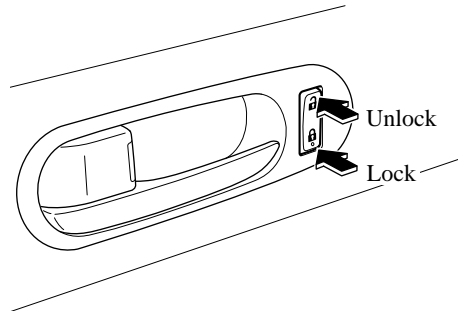
All doors and the liftgate lock automatically when the driver's door is locked with the key. All doors and the liftgate unlock when the driver's door is unlocked and the key is held in the unlock position for one second or longer.

***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 pressed. They all unlock when unlock side is pressed.

**Locking, unlocking with request switch (with advanced key)**

All doors and the liftgate can be locked/unlocked by operating the request switch on the front doors and the liftgate 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 3-24).

Doors and Locks

Auto lock/unlock function *

WARNING

Do not pull the inner handle on a front door:

Pulling an inner handle on a front door while the vehicle is moving is dangerous. Passengers can fall out of the vehicle if a front door accidentally opens, which could result in death or serious injury.

- When the vehicle speed exceeds 20 km/h (12 mph), all doors and the liftgate lock automatically.
- When the ignition is switched off, all doors and the liftgate unlock automatically.

These functions can also be disabled so that they do not operate.

Auto lock/unlock function setting change using door-lock switch

The doors and the liftgate can set to lock or unlock automatically by selecting any one of the functions from the following table and using the driver's door-lock switch on the interior to perform the setting change as indicated in the procedure which follows.

Settings can be changed using the following operation.

Function number	Function
1	The auto door-lock function is disabled.
2	All the doors and the liftgate lock automatically when the vehicle speed is about 20 km/h (12 mph) or more.
3	All the doors and the liftgate lock automatically when the vehicle speed is about 20 km/h (12 mph) or more. All the doors and the liftgate unlock when the ignition is switched from ON to ACC or Off.
4	When the ignition is switched ON and the shift lever is shifted from park (P) to any other gear position, all the doors and the liftgate lock automatically.
5	When the ignition is switched ON and the shift lever is shifted from park (P) to any other gear position, all the doors and the liftgate lock automatically. When the shift lever is shifted to park (P) while the ignition is switched ON, all the doors and the liftgate unlock automatically.

1. Stop the vehicle and close all the doors.
2. Switch the ignition ON.
3. Press and hold the lock side of the driver's door-lock switch within 10 seconds of switching the ignition ON, and make sure a beep sound is heard about eight seconds afterwards.
4. Referring to the auto lock/unlock function setting table, determine the function number for the desired setting and press the unlock side of the driver's door-lock switch only in the amount of the selected function number (Ex. If you select function 2, press the unlock side of the switch only 2 times).

NOTE

There are only a total of five auto lock/unlock settings available. Be sure to press the unlock side of the driver's door-lock switch the correct number of times according to the selected function number. If the switch is mistakenly pressed six times, the procedure will be invalidated. If this occurs, start the procedure from the beginning.

5. Three seconds after the function setting has been changed, a beep sound will beep in the amount of the selected function number.

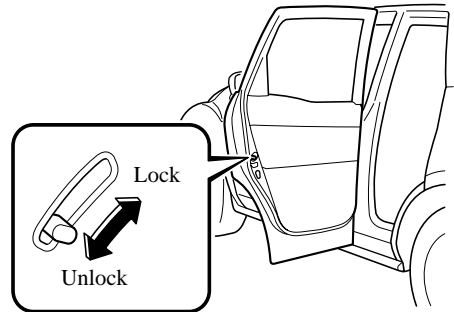
NOTE

- The doors cannot be locked or unlocked while the setting function is being performed.
- The procedure can be cancelled by pressing the lock side of the driver's door-lock switch.

▼ 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.



Doors and Locks

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 cylinder, refer to Power Door Locks (page 3-32).

▼ 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).

▼ 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 3-24).

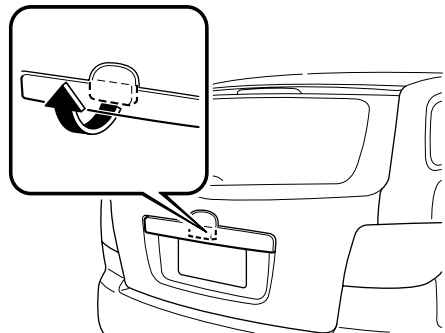
▼ Locking, Unlocking with Door-Lock Switch

The liftgate can be locked/unlocked by operating the door-lock switch, refer to Power Door Locks (page 3-32).

▼ Opening and Closing the Liftgate

Opening the liftgate

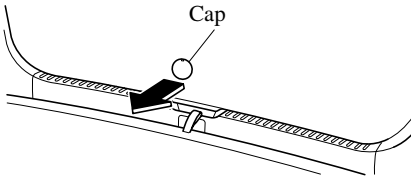
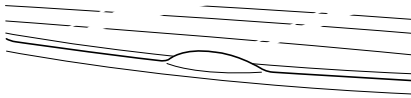
Pull up on the handle.



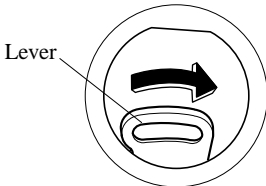
NOTE

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

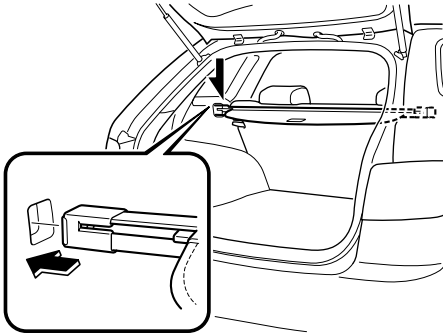
Make sure the luggage compartment cover is firmly secured. If it is not firmly secured, it could unexpectedly disengage resulting in injury.

Doors and Locks

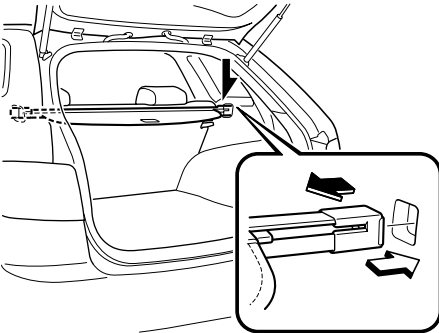
Luggage compartment cover*

Installing the cover

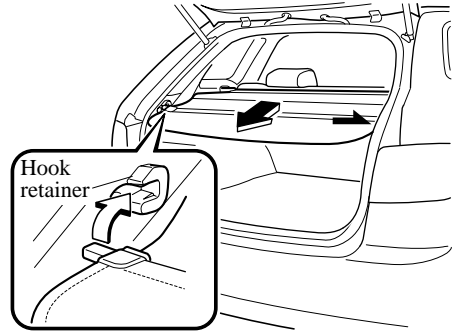
1. Insert the left end of the retractor bar into the notch.



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



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

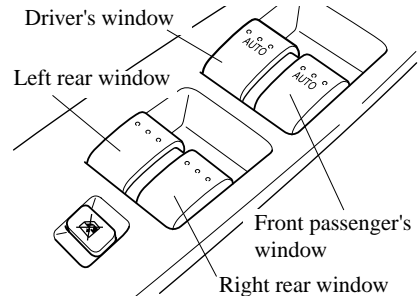
To prevent burning out the fuse and damaging the power window system, do not open or close more than three windows at once.

▼ 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 3-43).
- Each passenger power window can also be operated by the power window master control switches on the driver's door.

Owner master control switch



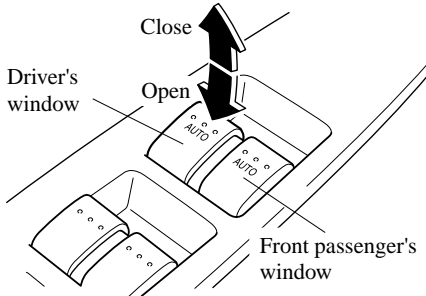
- The following functions can be performed for the front power windows using the power window master control switches on the driver's door or front passenger's door switch.
 - Manual opening/closing
 - Auto-opening/closing
 - Two-step down function

Doors and Locks

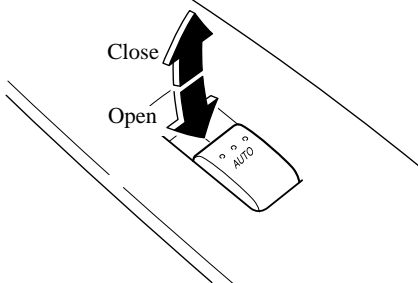
Manual opening/closing

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.

NOTE

(POWER WINDOW RESET PROCEDURE)

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. Resetting of the automatic function can be performed using the driver's master control switch or the front passenger door switch. The power window auto function reset procedure can be done on one or both door switches. The power window auto function will only resume on the side that has been reset.

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 closes.
5. Repeat Steps 3-4 for each front power window.
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.

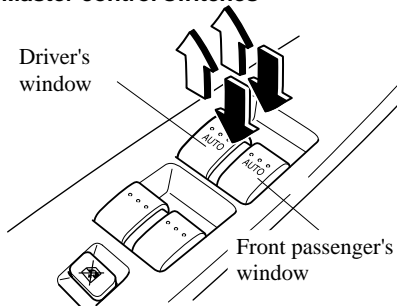
NOTE

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 closing all the way. If fingers are caught, serious injuries could occur.

Doors and Locks

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.
- The jam-safe window function does not operate until the system is re-initialized.

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.

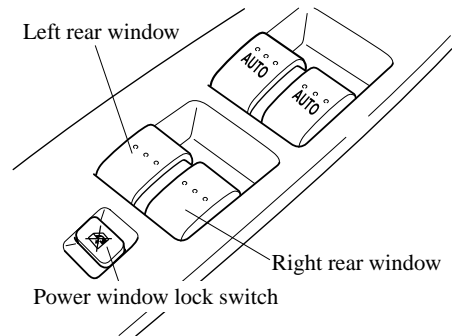
NOTE

- 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.

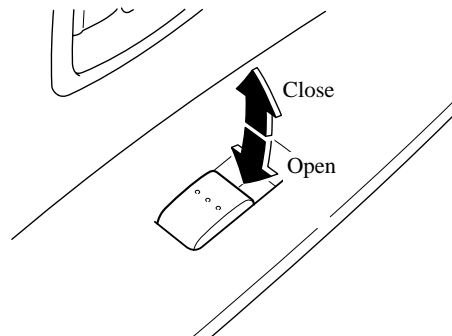
▼ Operating the Rear Power Windows

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

The 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.



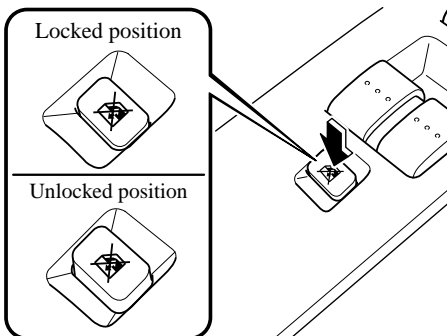
Engine-off power window operation

The power windows can be operated 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 windows will be inoperable.

▼ Power Window Lock Switch

With the lock switch in the unlocked position (button not depressed), all power windows on each door can be operated.

With the lock switch in the locked position (button depressed), 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 and the Moonroof from Outside

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

The front power windows may be operated remotely 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 and the moonroof:

Closing power windows and the moonroof are dangerous. A person's hands, head, or even neck could be caught by the window or the moonroof and result in serious injury or even death.

This warning applies especially to children.

Doors and Locks

NOTE

- The power windows and 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.
 - The start knob is in any position except LOCK. (With advanced key)
- The power windows and the moonroof may not close completely. Make sure all the windows and the moonroof are closed.

If the power windows and the moonroof cannot be closed completely, operate each power window switch or the tilt/slide switch from inside the vehicle. After closing the windows and the moonroof from outside the vehicle, verify that they are completely closed.

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.

⚠ WARNING

Use the remote auto-window and the auto-moonroof 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 and moonroof without your knowing, the open windows and moonroof are an even bigger invitation to a thief than leaving the doors unlocked.

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

With unlock button (Keyless entry system)

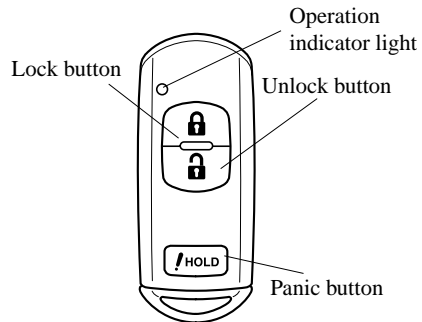
Press the unlock button on the transmitter once, then press again within 1.5 seconds and hold.

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

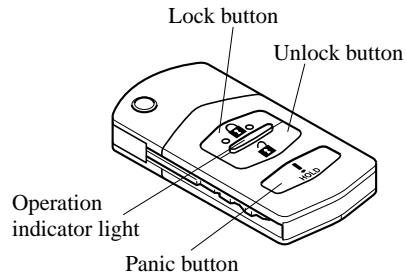
To stop the windows and the moonroof while opening, release the button.

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

Advanced key



Retractable type key

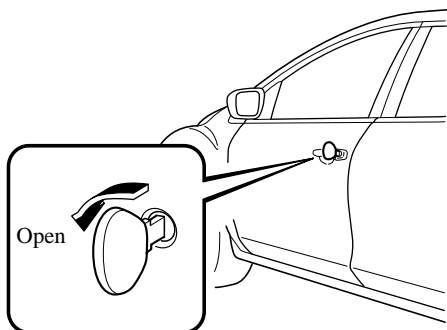


NOTE

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

With key

1. Insert the key in the driver's door key cylinder.
2. Turn the key counterclockwise and hold until the windows and the moonroof are completely open. After the doors and the liftgate are unlocked, the windows and the moonroof fully open automatically.



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

NOTE

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

Closing

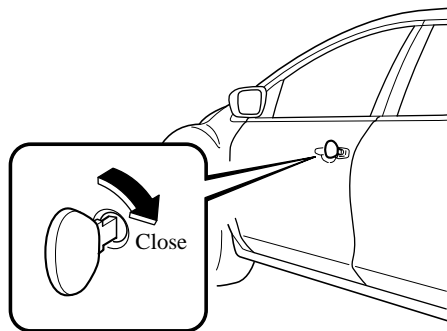
The windows and the moonroof can be closed in case they are left open after getting out of the vehicle.

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 and the moonroof cannot be closed. When leaving the vehicle, close the windows and the moonroof using the power window switch or the tilt or slide switch inside the vehicle, the key, or a request switch on the front door handles.

With key

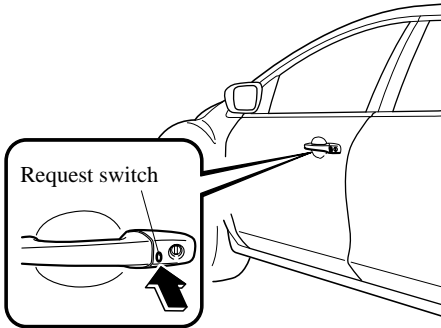
1. Insert the key in the driver's door key cylinder.
2. Turn the key clockwise and hold until the windows and the moonroof are completely close. After the doors and the liftgate are locked, the windows and the moonroof close as long as the key is turned.

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

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

Doors and Locks

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



To stop the windows and the moonroof from closing, release the request switch. If the operation is performed from the beginning again, the windows and the moonroof close.

Fuel-Filler Lid and Cap

⚠ WARNING

When removing the fuel-filler 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-filler 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.

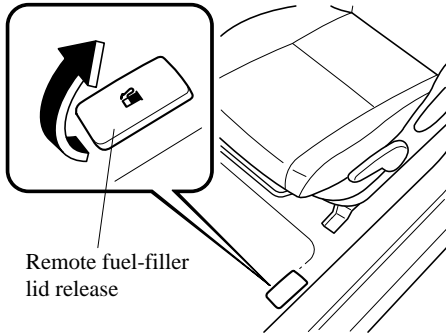
Additionally, use of the incorrect fuel-filler cap or not using a fuel-filler cap may result in fuel leak, which could result in serious burns or death in an accident.

⚠ CAUTION

Always use only a genuine Mazda fuel-filler 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

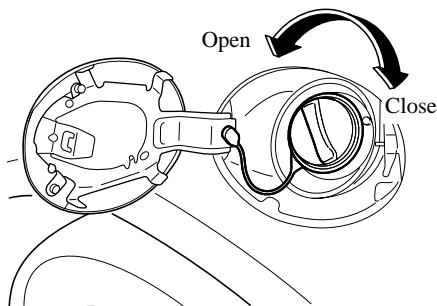
To open, pull up the remote fuel-filler lid release.



▼ Fuel-Filler Cap

To remove the fuel-filler cap, turn it counterclockwise.

To close the fuel-filler cap, turn it clockwise until two or more clicks are heard.

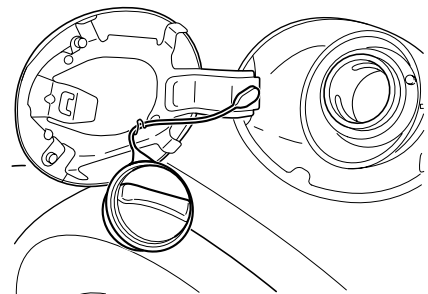


⚠ CAUTION

If the check fuel cap warning light illuminates, the fuel-filler cap may not be properly installed. If the warning light illuminates, park your vehicle safely off the right-of-way, remove the fuel-filler cap and reinstall it correctly. After the cap has been correctly installed, the fuel cap warning light may continue to illuminate until a number of driving cycles have been completed. A drive cycle consists of starting the engine (after four or more hours with the engine off) and driving the vehicle on city and highway roads. Continuing to drive with the check fuel cap warning light illuminated could cause the check engine light to illuminate as well.

NOTE

The removed cap can be attached to the inner side of the lid during refueling to prevent fuel on the cap from dripping onto the vehicle.



Doors and Locks

Hood

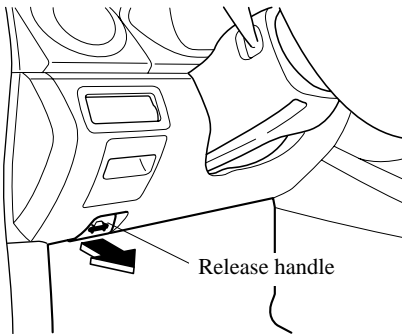
⚠ WARNING

Always check that the hood is closed and securely locked:

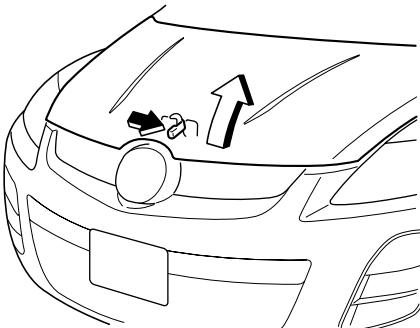
A hood that is not closed and securely locked is dangerous as it could fly open while the vehicle is moving and block the driver's vision which could result in a serious accident.

▼ Opening the Hood

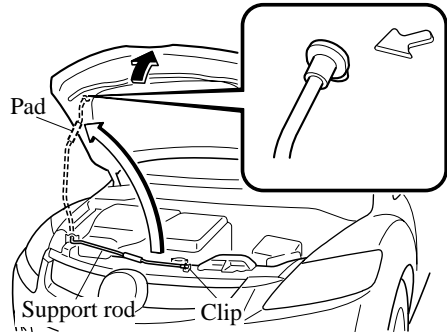
1. With the vehicle parked, pull the release handle to unlock the hood.



2. Insert your hand into the hood opening and slide the hood latch lever to the right and lift the hood.



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

⚠ WARNING

Do not leave items in the engine compartment:

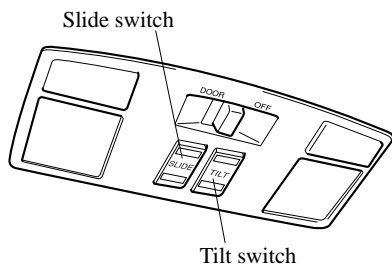
After you have finished checking or doing servicing in the engine compartment, do not forget and leave items such as tools or rags in the engine compartment.

Tools or other items left in the engine compartment could cause engine damage or a fire leading to an unexpected accident.

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 their 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

Before washing your Mazda, make sure the moonroof is completely closed so that water does not get inside the cabin area. After washing your Mazda or after it rains, 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

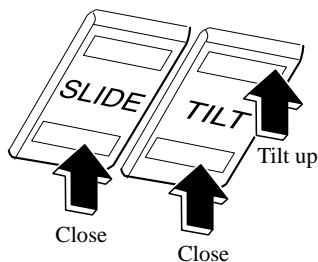
Tilt Operation

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

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

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

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



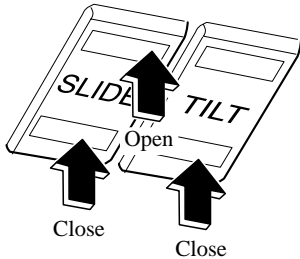
Slide Operation

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

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

Doors and Locks

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



Power moonroof re-set procedure

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 re-setting. Carry out the following procedure to resume operation:

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

NOTE

If the re-set 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.

▼ **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. Refer to Opening/Closing the Power Windows and the Moonroof from the Outside on page 3-43.

▼ **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.

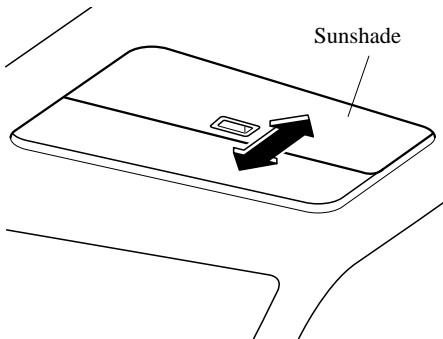
NOTE

- 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 advanced key, the engine will not start, thereby helping to prevent the theft of your vehicle.

If you have a problem with the immobilizer system or the advanced key (including auxiliary key), consult an Authorized Mazda Dealer.

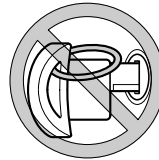
CAUTION

- 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.

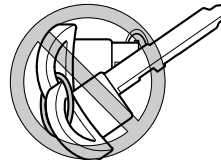
CAUTION

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.

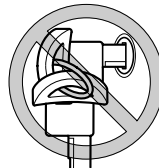
- A key ring rests on the key grip.



- 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.



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

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.*

Security System

Declaration of Conformity

Immobilizer system

(U.S.A)

FCC WARNING

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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.

(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.

(MEXICO)

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

▼ 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 does not start with the correct advanced 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 does not start after 3 or more tries, contact an Authorized Mazda Dealer.*
- *If the security indicator light flashes continuously while you are driving, do not 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 will not 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

▼ 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.

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.

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

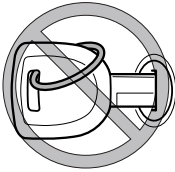
CAUTION

- *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.*

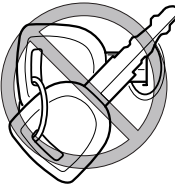
CAUTION

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.

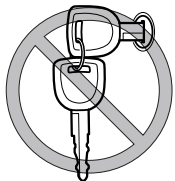
- A key ring rests on the key grip.



- 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 which touch or come near the key.

NOTE

- The keys carry a unique electronic code. For this reason, and to assure your safety, obtaining a 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.

Security System

Declaration of Conformity

Immobilizer system

(U.S.A)

FCC WARNING

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Note

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Sistema inmovilizador con marcado de confirmación por radio

COFETEL RCPMAIM05-935

▼ Operation

Arming

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

The security indicator light in the instrument cluster flashes every two 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 three seconds and goes out.

If the engine does not 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 illuminates and stays on or flashes 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 does not start after 3 or more tries, contact an Authorized Mazda Dealer.
- If the security indicator light flashes continuously while you are driving, do not 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 will not be able to restart it.
- 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.

▼ 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.

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 *

If the theft deterrent system detects an inappropriate entry into the vehicle, which could result in the vehicle or its contents being stolen, the alarm alerts the surrounding area of an abnormality by sounding the horn and flashing the hazard warning lights.

Refer to Operation on page 3-60.

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 the advanced keyless function.
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 30 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 the request switch.

NOTE

If the battery goes dead while the theft-deterrent system is armed, the horn will activate and the hazard warning lights will flash when the battery is charged or replaced.

▼ 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.


The hazard warning lights will flash once.

(With advanced key)

Press a request switch or the lock button on the transmitter.

(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.

The theft deterrent system can also be armed by activating the auto re-lock function with all the doors, the liftgate and the hood closed.

NOTE

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

3. After 20 seconds, the system is fully armed.

NOTE

• **Auto re-lock function**

After unlocking with the transmitter or the request switch, all doors and the liftgate will automatically lock and the hazard warning lights will flash if any of the following operations are not performed within about 30 seconds.

- *A door or the liftgate is opened.*
- *The auxiliary key inserted into the ignition switch (with advanced key).*
- *The key is inserted in the ignition switch.*
- *The start knob is pushed (with advanced key).*
- *The ignition is switched ON.*
- *The system will disarm if one of the following operations takes place within 20 seconds after closing and locking all the doors and the liftgate:*
 - *Pressing the unlock button on the transmitter.*
 - *Any door or the liftgate is opened.*
 - *Unlocking a door with the inside door-lock knob.*
 - *Unlocking the driver's door with the key.*
 - *The hood is opened.*
 - *The key is inserted in the ignition switch.*
 - *The auxiliary key inserted into the ignition switch (With advanced key).*
 - *The start knob is pressed into the ignition switch or a request switch is pressed (With advanced key).*
 - *The ignition switch is turned to the ON position.*

To rearm the system, do the arming procedure again.

- *When the doors are locked by pressing the lock button on the transmitter or request switch on the front doors or using the key while the theft-deterrent system is armed, the hazard warning lights will flash once to indicate that the system is armed.*

Security 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.

NOTE

When the doors are unlocked by pressing the unlock button on the transmitter or request switch on the front doors or using the key while the theft-deterrent system is turned off, 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.
- The engine is started with the ignition key.
- **(With advanced key)**
 - Press a request switch.
 - Press the unlock button on the transmitter.
 - The engine is started with the start knob.

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 compartment.

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

Steering Wheel and Mirrors

Steering Wheel

⚠ WARNING

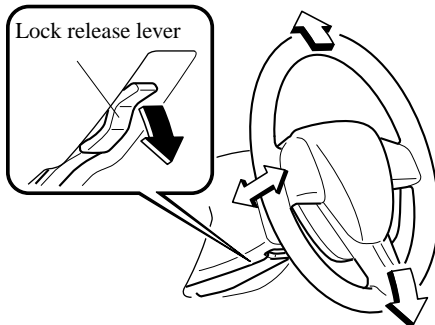
Never adjust the steering wheel while the vehicle is moving:

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.

▼ Steering Wheel Adjustment

To change the angle or length of the steering wheel:

1. Stop the vehicle, pull down the lock release lever under the steering column.



2. Tilt the steering wheel and/or adjust the steering column length to the desired positions, push the lever up to lock the column.
3. 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 mirror

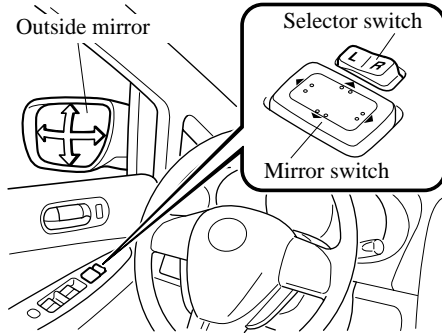
The ignition switch must be in the ACC or ON position.

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

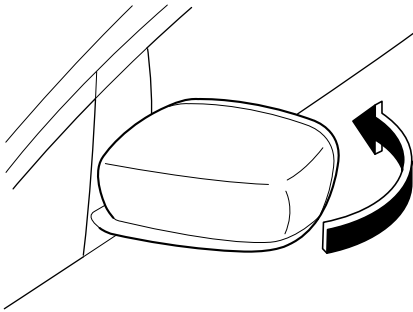
- Depress the mirror switch in the appropriate direction.



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.

▼ Rearview Mirror

WARNING

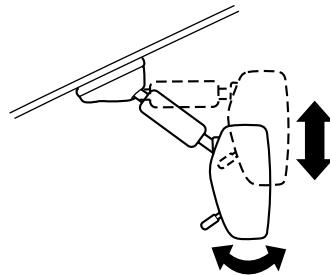
Do not stack cargo or objects higher than the seatbacks:

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.

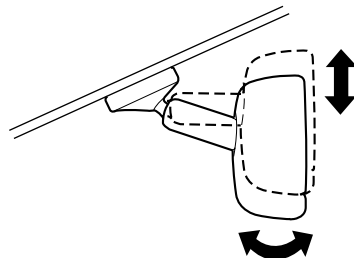
Rearview mirror adjustment

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

Manual day/night mirror



Auto-dimming mirror



Steering Wheel and Mirrors

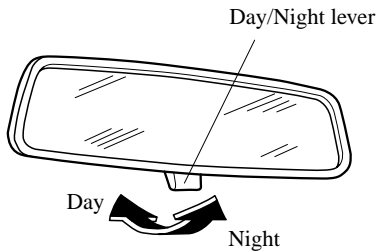
NOTE

For the manual day/night mirror, perform the adjustment with the day/night lever in the day position.

Reducing glare from headlights

Manual day/night mirror

Push the day/night lever forward for day driving. Pull it back to reduce glare of headlights from cars at the rear.

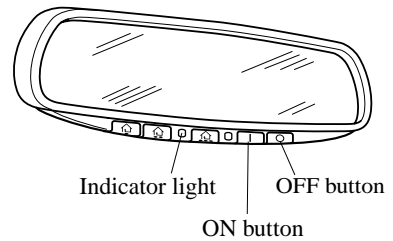


Auto-dimming mirror

The auto-dimming mirror automatically reduces glare of headlights from cars at the rear when the ignition switch is in the ON position.

Press the OFF button (○) to cancel the automatic dimming function. The indicator light will turn off.

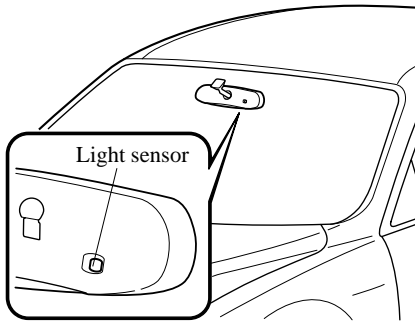
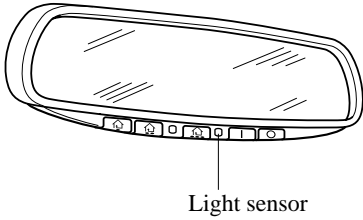
To reactivate the automatic dimming function, press the ON button (⊥). The indicator light will illuminate.



Steering Wheel and Mirrors

NOTE

- Do not use glass cleaner or suspend objects on or around the light sensor. Otherwise, light sensor sensitivity will be affected and may not operate normally.



- For information regarding the 3 buttons (☰, ☱, ☲) on the auto-dimming mirror, refer to HomeLink Wireless Control System (page 5-73).

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.

2.3-liter engine

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

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

This vehicle is designed to use 91 [(R+ M)/2 method] (96RON) or higher gasoline for best performance. If 91 [(R+ M)/2 method] (96RON) is not available, 87[(R+ M)/2 method] (91RON) gasoline can be used. Use of gasoline lower than 91 [(R+ M)/2 method] (96RON) can decrease performance, deteriorate shift quality and cause engine knocking during its use.

2.5-liter engine

Fuel	Octane Rating* (Anti-knock index)
Regular unleaded fuel	87 [(R+ M)/2 method] or above (91 RON or above)

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

Fuel with a rating lower than 87 octane (91 RON) could cause the emission control system to lose effectiveness. It could also cause engine knocking and serious engine damage.

CAUTION

➤ **USE ONLY UNLEADED FUEL.**

Leaded fuel is harmful to the catalytic converter and oxygen sensors and will lead to deterioration of the emission control system and or failures.

➤ *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 other compounds are generally referred to as oxygenated fuels. The common gasoline blend that can be used with your vehicle is ethanol blended at no more than 10 %. Gasoline containing alcohol, such as ethanol or methanol, may be marketed under the name "Gasohol".

Fuel and Engine Exhaust Precautions

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.**
- *Do not drive your Mazda with any sign of engine malfunction.*
- *Do not coast with the ignition switch turned off.*
- *Do not descend steep grades in gear with the ignition switch turned off.*
- *Do not operate the engine at high idle for more than 2 minutes.*
- *Do not tamper with the emission control system. All inspections and adjustments must be made by a qualified technician.*
- *Do not 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 the steering wheel adjusted properly?
 - 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.

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.

- Do not race the engine.
- Do not maintain one constant speed, either slow or fast, for a long period of time.
- Do not drive constantly at full-throttle or high engine rpm for extended periods of time.
- Avoid unnecessary hard stops.
- Avoid full-throttle starts.
- Do not 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.
- Do not carry unnecessary weight.
- Do not 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.

Driving Tips

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 vehicle:

Sharp turns, excessive speed and abrupt maneuvering of this vehicle is dangerous as it could result in the increased risk of loss of vehicle control, vehicle roll-over, personal injury or death.

This vehicle has a higher center of gravity. 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 high speeds any more than low profile sports cars are designed to perform satisfactorily under off-road conditions. In addition, utility vehicles have a significantly higher rollover rate than other types of vehicles.

Drive carefully when the vehicle is loaded by lowering vehicle speed and applying the brakes earlier:

Abrupt maneuvering and sudden braking when driving a loaded vehicle is dangerous as the driving behavior of a vehicle with a high center of gravity is different when it is loaded compared to when it is not, and could result in the loss of vehicle control and an accident.

Floor Mat

⚠ WARNING

Make sure the floor mats are hooked on the retention pins to prevent them from bunching up under the foot pedals:

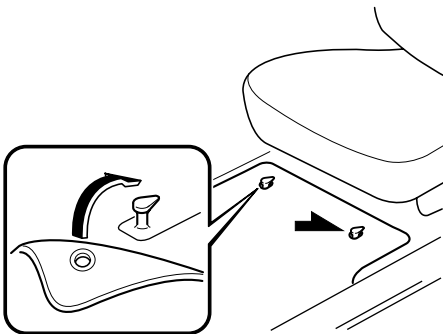
Using a floor mat that is not secured is dangerous as it will interfere with the accelerator and brake pedal operation, which could result in an accident.

Do not install two floor mats, one on top of the other, on the driver's side:

Installing two floor mats, one on top of the other, on the driver's side is dangerous as the retention pins can only keep one floor mat from sliding forward.

In using a heavy duty floor mat for winter use always remove the original floor mat.

Loose floor mat(s) will interfere with the foot pedal and could result in an accident.



When setting a floor mat, position the floor mat so that its eyelets are inserted over the pointed end of the retention posts.

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.

Driving Tips

Winter Driving

- Carry emergency gear, including tire chains, window scraper, flares, a small shovel, jumper cables, and a small bag of sand or salt.

Ask an Authorized Mazda Dealer to perform the following precautions:

- Have the proper ratio of antifreeze in the radiator.
Refer to Engine Coolant on page 8-22.
- Inspect the battery and its cables. Cold reduces battery capacity.
- Use only cold-weather engine oil (page 8-19).
- Inspect the ignition system for damage and loose connections.
- Use washer fluid made with antifreeze—but do not use engine coolant antifreeze for washer fluid (page 8-28).
- Do not use the parking brake in freezing weather as it may freeze. Instead, shift to P and block the rear wheels.
- Do not apply excessive force to a window scraper when removing ice or frozen snow on the mirror glass and windshield.
- Never use warm or hot water for removing snow or ice from windows and mirrors as it could result in the glass cracking.

▼ Snow Tires

Use snow tires on all four wheels

Do not 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.

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

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 5-32).

▼ 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.
Please consult an Authorized Mazda Dealer.

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.

Driving Tips

Overloading

WARNING

Be careful not to overload your vehicle:

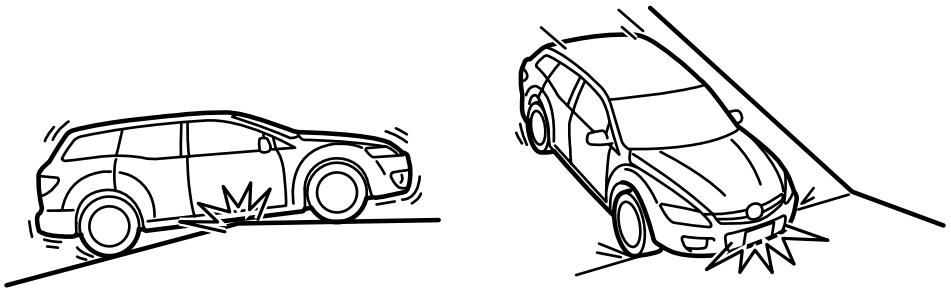
The gross axle weight rating (GAWR) and the gross vehicle weight rating (GVWR) of your vehicle are on the Motor Vehicle Safety Standard Label on the driver's door frame. Exceeding these ratings can cause an accident or vehicle damage. You can estimate the weight of your load by weighing the items (or people) before putting them in the vehicle.

Driving on Uneven Road

Your vehicle's suspension and underbody can be damaged if driven on rough/uneven roads or over speed bumps at excessive speeds. Use care and reduce speed when traveling on rough/uneven roads or over speed bumps.

Use care not to damage the vehicle's underbody, bumpers or muffler(s) when driving under the following conditions:

- Ascending or descending a slope with a sharp transition angle
- Ascending or descending a driveway or trailer ramp with a sharp transition angle



Your vehicle is equipped with low profile tires allowing class-leading performance and handling. As a result, the sidewall of the tires are very thin and the tires and wheels can be damaged if driven through potholes or on rough/uneven roads at excessive speeds. Use care and reduce speed when traveling on rough/uneven roads or through potholes.

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). 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 8-19). 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.
- Do not 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 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

Do not 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

Do not 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			
		2.3-liter engine		2.5-liter engine	
		2WD	AWD	2WD	
MAX. FRONTAL AREA		2.97 m ² (32 ft ²)			
MAX. TTW	Add trailer's weight, load and hitch; vehicle passengers and vehicle load* 	907 kg (2,000 lb)		680 kg (1,500 lb)	
MAX. GCWR		2,815 kg (6,206 lb)	2,914 kg (6,424 lb)	2,526 kg (5,569 lb)	
MAX. GAWR		Front	1,150 kg (2,535 lb)	1,189 kg (2,621 lb)	1,104 kg (2,434 lb)
		Rear	1,022 kg (2,253 lb)	1,083 kg (2,388 lb)	1,025 kg (2,260 lb)
MAX. GVWR		2,168 kg (4,780 lb)	2,267 kg (4,998 lb)	2,125 kg (4,685 lb)	
TRAILER-TONGUE LOAD	Tongue load		Tongue load/Trailer load × 100 = 10 % to 15 %		
	Trailer load				
DISTRIBUTION OF TRAILER LOAD		Front	60 %		
		Rear	40 %		

* i.e. baggage, food, camp gear

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. Do not load and unload vehicle while adjusting hitch. This action will change the vehicle height.*
- *Do not 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

Do not 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.

▼ Trailer Towing Tips

- Verify that your Mazda maintains a near-normal attitude when a loaded or unloaded trailer is connected. Do not 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.

Towing

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.

The D position 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 7-11).

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.

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.

Towing

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).

5

Driving Your Mazda

Explanation of instruments and controls.

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Starting and Driving

Ignition Switch

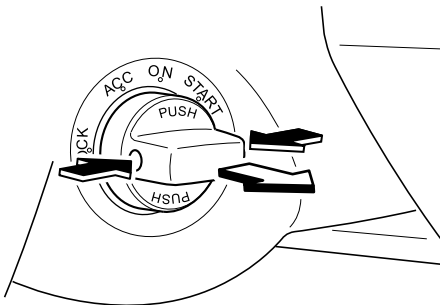
Auxiliary key (with advanced key)

NOTE

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

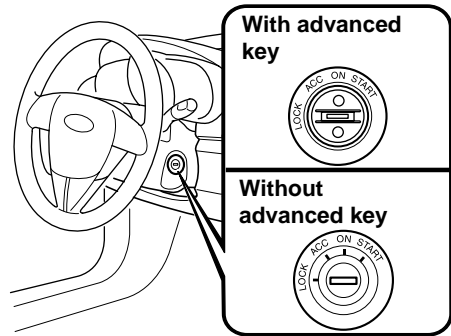
When starting the engine with the auxiliary key, perform the following procedure.

1. Remove the auxiliary key from the advanced key (page 3-18).
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.



4. Insert the auxiliary key in the ignition switch.

▼ 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. (For vehicles equipped with the advanced key, the steering wheel locks when the starter knob is turned to the LOCK position.)

Before leaving the driver's seat, always put the key or start knob to LOCK position, set the parking brake and make sure the shift lever is in P:

It is important to place the key or start knob in the LOCK position even if you are not removing the key from the ignition or leaving the vehicle. Leaving the key in other positions will disable some of the vehicle security systems and run the battery down.

Leaving the driver's seat without putting the ignition switch in LOCK position, setting the parking brake and shifting the shift lever to P is dangerous. Unexpected vehicle movement could occur. This could cause an accident.

NOTE

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

Leaving the key or start knob in any position but LOCK position also disables some of the security features and may run the battery down.

ACC (Accessory)

The steering wheel unlocks and some electrical accessories will operate.

ON

This is the normal running position after the engine is started. Some indicator lights/warning lights should be inspected before the engine is started (page 5-44).

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. It then returns to the ON position.

▼ 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 and Driving

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

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

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

NOTE

- *In extremely cold weather 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.*
- *If the engine does not start the first time, refer to Starting a Flooded Engine under Emergency Starting. If the engine still does not start, have your vehicle inspected by an Authorized Mazda Dealer (page 7-13).*

Turning Off the Engine

1. Stop the vehicle completely.
2. Shift the shift lever to the P position.
3. Turn the ignition switch from the ON position to the LOCK position.

CAUTION

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

NOTE

The electrical fan in the engine compartment could turn on for a few minutes after the ignition switch is turned from the ON to the LOCK position, whether or not the A/C is on or off, to cool the engine compartment quickly.

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.

Starting and Driving

WARNING

Do not coast with the engine stalled or turned off, find a safe place to stop:

Coasting 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.

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 put the key or start knob to LOCK position, set the parking brake and make sure the shift lever is in P:

It is important to place the key or start knob in the LOCK position even if you are not removing the key from the ignition or leaving the vehicle. Leaving the key in other positions will disable some of the vehicle security systems and run the battery down.

Leaving the driver's seat without putting the ignition switch in LOCK position, setting the parking brake and shifting the shift lever to P is dangerous. Unexpected vehicle movement could occur. This could cause an accident.

CAUTION

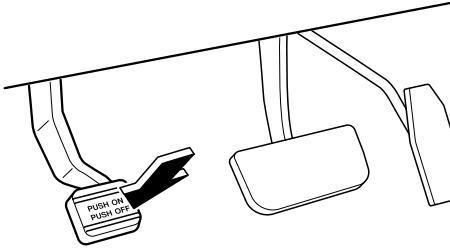
Driving with the parking brake on will cause excessive wear of the brake linings or pads.

NOTE

For parking in snow, refer to Winter Driving (page 4-10) regarding parking brake use.

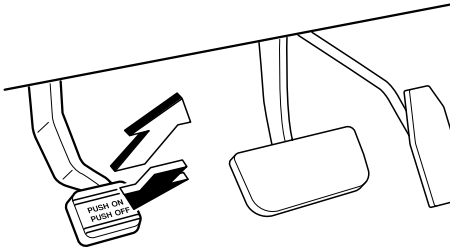
Setting the parking brake

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 pedal once before trying to reapply it.

▼ Brake System Warning Light



This warning has the following functions:

Parking brake warning

The light illuminates when the parking brake is applied with the ignition switch in the START or ON position. It turns 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 depress 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, open the hood and check the brake fluid level immediately, and then add fluid if required (page 8-24).
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 turns off have your brake system inspected as soon as possible by an Authorized Mazda Dealer.

Starting and Driving

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. 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.

▼ 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. Continue to depress the brake pedal without pumping the brakes.

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



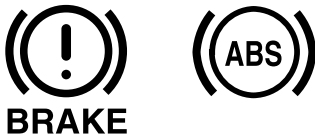
The warning light stays on for a few seconds when the ignition switch is turned to the ON position.

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.

NOTE

- *When the engine is jump-started to charge the battery, uneven rpm occurs and the ABS warning light may illuminate. If this occurs, it is the result of the weak battery and does not indicate an ABS malfunction. Recharge the battery.*
- *The brake assist system does not operate while the ABS warning light is illuminated.*

▼ 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 illuminate the brake system warning light and the ABS warning light on simultaneously. The problem is likely to be the 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 simultaneously 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.

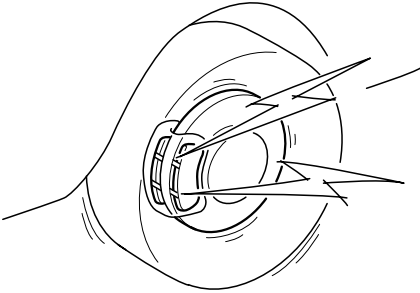
NOTE

- *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 motor/pump operation noise 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.*

Starting and Driving

▼ 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.

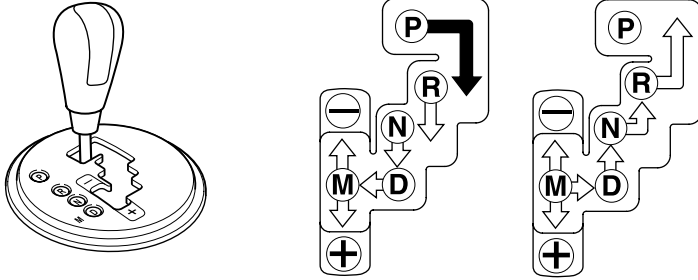


When you hear this noise, consult an Authorized Mazda Dealer as soon as possible.

⚠ 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.

NOTE

The Sport AT has an option that is not included in the traditional automatic transaxle giving the driver the option of selecting each gear instead of leaving it to the transaxle to shift gears. Even if you intend to use the automatic transaxle functions as a traditional automatic, you should also be aware that you can inadvertently shift into manual shift mode and an inappropriate gear may be retained as the vehicle speed increases. If you notice the engine speed going higher or hear the engine racing, confirm you have not accidentally slipped into manual shift mode (page 5-13).

Starting and Driving

▼ 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 4-9).

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.

NOTE

Apply the parking brake or depress the brake pedal before moving the shift lever from N to prevent the vehicle from moving unexpectedly.

D (Drive)

D is the normal driving position. From a stop, the transaxle will automatically shift through a 5-gear/6-gear* sequence.

* 2.3-liter engine model

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 5-13).

▼ Active Adaptive Shift (AAS)

Active Adaptive Shift (AAS) automatically controls the transaxle shift points to best suit the road conditions and driver input. This optimizes engine performance and improves driving 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.

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 to the LOCK position when the shift lever is not in P.

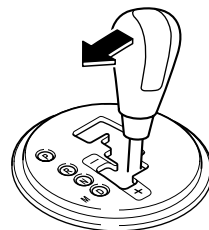
▼ Manual Shift Mode

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 drive wheels much like a manual transaxle when more control is desired.

To change to manual shift mode, shift the lever from D to M.

NOTE

Changing to manual shift mode while driving will not damage the transaxle.



To return to automatic shift mode, shift the lever from M to D.

Starting and Driving

NOTE

- If you change to manual shift mode when the vehicle is stopped, the gear will shift to M1.
- **(2.5-liter engine model)**
If you change to manual shift mode without depressing the accelerator pedal when driving in D range, 5th gear, the gear will shift to M4.
- If you change to manual shift mode without depressing the accelerator pedal when driving in D range, 6th gear, the gear will shift to M5.

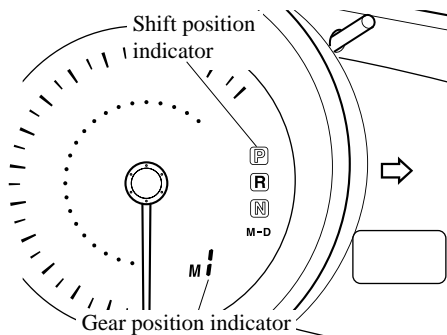
Indicators

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.



NOTE

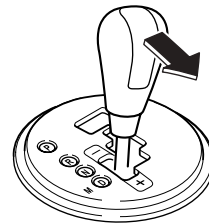
- If the gears cannot be shifted down when driving at higher speeds, the gear position indicator will flash twice to signal that the gears cannot be shifted down (to protect the transaxle).
- **(2.5-liter engine model)**
If the automatic transaxle fluid (ATF) temperature becomes too high, there is the 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.



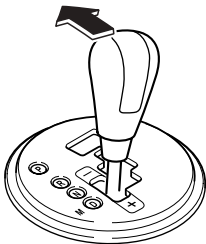
NOTE

- When driving slowly, the gears may not shift up depending on vehicle speed.
- In manual shift mode, gears do not shift up automatically. Do not 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.



⚠ 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	
	2.5-liter engine model	2.3-liter engine model
M1 → M2	You can shift up to M2 whether the vehicle is stopped or moving.	
M2 → M3	21 km/h (13 mph)	9 km/h (6 mph)
M3 → M4	38 km/h (24 mph)	26 km/h (16 mph)
M4 → M5		36 km/h (22 mph)
M5 → M6	—	53 km/h (33 mph)

Starting and Driving

Shifting down

If the vehicle speed is higher than the speed specified for each gear, the gear cannot be shifted to a lower gear so as to protect the transaxle.

Gear	Vehicle speed	
	2.5-liter engine model	2.3-liter engine model
M6 → M5	—	230 km/h (143 mph)
M5 → M4	216 km/h (135 mph)	182 km/h (113 mph)
M4 → M3	150 km/h (93 mph)	135 km/h (83 mph)
M3 → M2	99 km/h (62 mph)	86 km/h (53 mph)
M2 → M1	50 km/h (31 mph)	44 km/h (27 mph)

NOTE

Regarding the vehicle speed at the highest gear indicated above, achieving this speed may not actually be possible depending on various driving conditions such as the wind, upslope, and road surface.

During deceleration, the gears shift down automatically when speed is reduced to the following:

Gear	Vehicle speed	
	2.5-liter engine model	2.3-liter engine model
M6 → M5	—	52 km/h (32 mph)
M5 → M4	34 km/h (21 mph)	34 km/h (21 mph)
M4 → M3		25 km/h (15 mph)
M3 or M2 → M1	11 km/h (7 mph)	8 km/h (5 mph)

NOTE

The gear does not shift down to M1 automatically while in the second gear fixed mode.

If the vehicle is kicked down at the following speeds or lower, the gears shift down automatically:

Gear	Vehicle speed	
	2.5-liter engine model	2.3-liter engine model
M6 → M5	—	220 km/h (136 mph)
M5 → M4	202 km/h (126 mph)	50 km/h (31 mph)
M4 → M3	140 km/h (87 mph)	30 km/h (18 mph)
M3 → M2	54 km/h (34 mph)	8 km/h (5 mph)
M2 → M1		

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)

* 2.3-liter engine model

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**⚠ WARNING**

Do not allow the vehicle to move in reverse on an up-slope while the selector lever is in a forward gear position, or move forward on a down-slope while the selector lever is in the reverse position.

Otherwise, the engine will stop, causing the loss of the power brake and power steering functions, and make it difficult to control the vehicle which could result in an accident.

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.

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 stiffer than usual 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.

Starting and Driving

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 vehicle:

Sharp turns, excessive speed and abrupt maneuvering of this vehicle is dangerous as it could result in the increased risk of loss of vehicle control, vehicle roll-over, personal injury or death.

This vehicle has a higher center of gravity. 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 high speeds any more than low profile sports cars are designed to perform satisfactorily under off-road conditions. In addition, utility vehicles have a significantly higher rollover rate than other types of vehicles.

Drive carefully when the vehicle is loaded by lowering vehicle speed and applying the brakes earlier:

Abrupt maneuvering and sudden braking when driving a loaded vehicle is dangerous as the driving behavior of a vehicle with a high center of gravity is different when it is loaded compared to when it is not, and could result in the loss of vehicle control and an accident.

▼ 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, or when trying to extricate the vehicle from mud, sand or similar conditions.

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.

- 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.

Starting and Driving

Tire chains

- Install tire chains to the front tires.
- Do not use tire chains on the rear wheels.
- 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 7-18).

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 CRUISE ON 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.

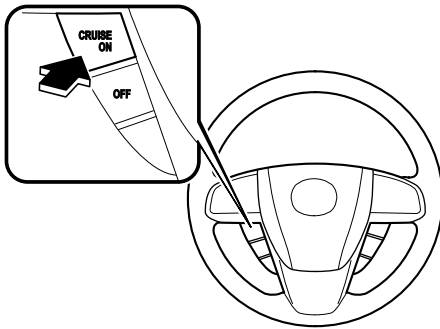
▼ Activation/Deactivation

To activate the system, press the CRUISE ON switch.

The cruise main indicator light illuminates.

To deactivate the system, press the OFF switch.

The cruise main indicator light turns off.



⚠ WARNING

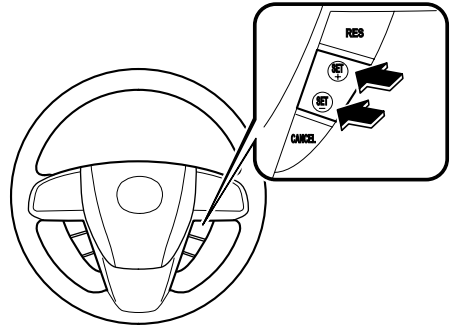
Always turn off the cruise control system when it is not in use:

Leaving the cruise control system in an activation-ready state while the cruise control is not in use is dangerous as the cruise control could unexpectedly activate if the activation button is accidentally pressed, and result in loss of vehicle control and an accident.

▼ To Set Speed

1. Activate the cruise control system by pressing the CRUISE ON switch.
2. Accelerate to the desired speed, which must be more than 30 km/h (19 mph).

3. Set the cruise control by pressing the SET + or SET - switch at the desired speed. The cruise control is set at the moment the SET + or SET - switch is pressed. Release the accelerator pedal simultaneously.



NOTE

- Release the SET + or SET - switch at the desired speed, otherwise the speed will continue increasing while the SET + switch is pressed and held, and continue decreasing while the SET - switch is pressed and held (except when the accelerator pedal is depressed).
- On a steep grade, the vehicle may momentarily slow down while ascending, or speed up while descending.
- Cruise control will turn off if vehicle speed drops below 23 km/h (14 mph) when cruise is activated, such as when climbing a steep grade.

Starting and Driving

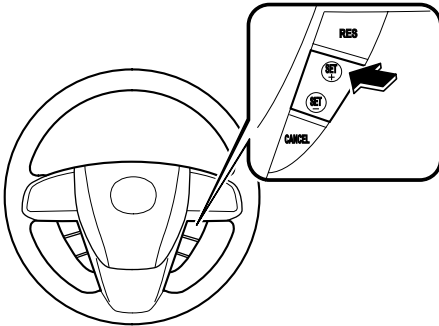
▼ To Increase Cruising Speed

Follow either of these procedures.

To increase speed using cruise control switch

Press the SET + switch and hold it. Your vehicle will accelerate.

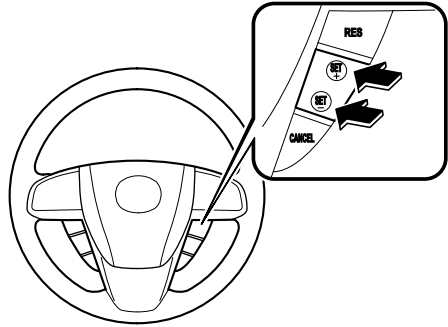
Release the switch at the speed you want.



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 SET + switch. Multiple taps will increase your vehicle speed 1.6 km/h (1 mph) for each tap.

To increase speed using accelerator pedal

Depress the accelerator pedal to accelerate to the desired speed. Press the SET + or SET - switch and release it immediately.



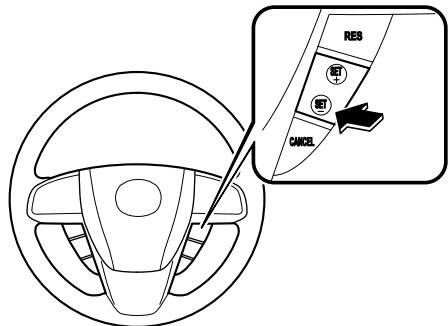
NOTE

Accelerate if you want to speed up temporarily when the cruise control is on. Greater speed will not interfere with or change the set speed. Take your foot off the accelerator to return to the set speed.

▼ To Decrease Cruising Speed

Press the SET - switch and hold it. The vehicle will gradually slow.

Release the switch at the speed you want.

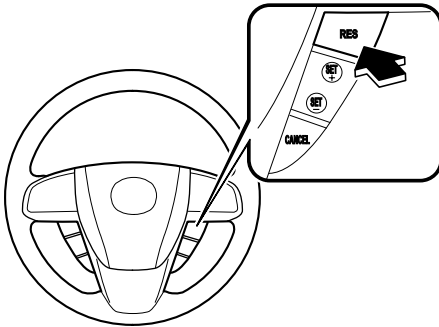


Your vehicle has a tap-down feature that allows you to decrease your current speed in decrements of 1.6 km/h (1 mph) by a momentary tap of the SET- switch. Multiple taps will decrease your vehicle speed 1.6 km/h (1 mph) for each tap.

▼ To Resume Cruising Speed at More Than 30 km/h (19 mph)

If some other method besides the OFF switch was used to cancel cruising speed (such as applying the brake pedal) and the system is still activated, the most recent set speed will automatically resume when the RES switch is pressed.

If vehicle speed is below 30 km/h (19 mph), increase the vehicle speed up to 30 km/h (19 mph) or more and press the RES switch.

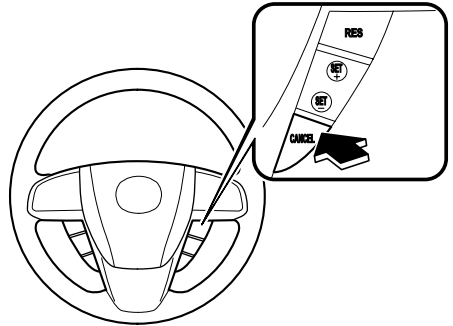


▼ To Cancel

To cancel the system, use **one** of these methods:

- Press the OFF switch.
- Slightly depress the brake pedal.

- Press the CANCEL switch.



The system turns off when the ignition is switched off.

NOTE

Cruise control will cancel at about 15 km/h (9 mph) below the preset speed (such as may happen when climbing a long, steep grade).

Starting and Driving

Traction Control System (TCS)

The Traction Control System (TCS) enhances traction and safety by controlling engine torque and braking. When the TCS detects driving wheel slippage, it lowers engine torque and operates the brakes 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 5-26.

If the light remains illuminated and 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, perform the following procedure with the battery connected.

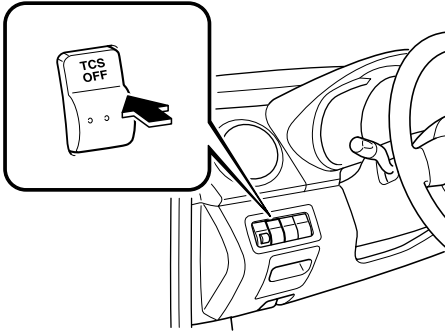
1. Turn the ignition switch to the ON position.
2. Turn the steering clockwise fully, then turn it counterclockwise fully.
3. Make sure the TCS OFF indicator light turns off.
4. Turn the ignition switch to the OFF position, then turn it to the ON position again.
5. Make sure the TCS/DSC indicator light 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, attempt the procedure again. If this still does not work, 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 turn off. 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

- 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.
- 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.

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 5-8) and TCS (page 5-24).

DSC operation is possible at speeds greater than 10 km/h (6 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



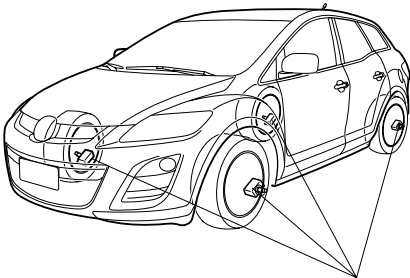
This indicator light stays on for a few seconds when the ignition switch is turned to the ON position. If the TCS or DSC is operating, the indicator light flashes.

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.

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. When the tire temperature decreases, the air pressure decreases as well. The TPMS warning light may illuminate more frequently. Visually inspect the tires daily before driving, and check tire pressures monthly with a tire pressure gauge. When checking 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 regularly.

⚠ 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.

- Your vehicle has also been equipped with a TPMS malfunction indicator to indicate when the system is not operating properly. The TPMS malfunction indicator is combined with the low tire pressure telltale. When the system detects a malfunction, the telltale will flash for approximately one minute and then remain continuously illuminated. This sequence will continue upon subsequent vehicle start-ups as long as the malfunction exists. When the malfunction indicator is illuminated, the system may not be able to detect or signal low tire pressure as intended. TPMS malfunctions may occur for a variety of reasons, including the installation of replacement or alternate tires or wheels on the vehicle that prevent the TPMS from functioning properly. Always check the TPMS malfunction telltale after replacing one or more tires or wheels on your vehicle to ensure that the replacement or alternate tires and wheels allow the TPMS to continue to function properly.
- 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.

Starting and Driving

▼ 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 and a beep is heard 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.

To determine if you have a slow leak or a flat, pull over to a safe position where you can check the visual condition of the tire and determine if you have enough air to proceed to a place where air may be added and the system monitored again by an Authorized Mazda Dealer or a tire repair station.

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 10-7).

⚠ 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 turn off 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 turn off. 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 turns off.*
- *Tires lose air naturally over time and the TPMS cannot tell if the tires are getting too soft over time or you have a flat. However, when you find one low tire in a set of four—that is an indication of trouble; you should have someone drive the vehicle slowly forward so you can inspect any low tire for cuts and any metal objects sticking through tread or sidewall. Put a few drops of water in the valve stem to see if it bubbles indicating a bad valve. Leaks need to be addressed by more than simply refilling the trouble tire as leaks are dangerous - take it to an Authorized Mazda Dealer which has all the equipment to fix tires, TPMS systems and order the best replacement tire for your vehicle.*

Starting and Driving

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.
- 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.

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 installations 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 (seal between valve body/sensor and wheel) for the tire pressure sensor.*

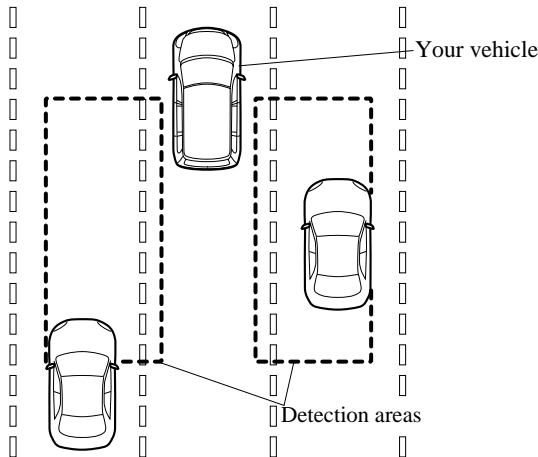
Starting and Driving

Blind Spot Monitoring (BSM) System *

The Blind Spot Monitoring (BSM) system is designed to assist the driver by monitoring blind spots on both sides of the vehicle to the rear in certain situations such as when changing lanes on roads and freeways.

The BSM system monitors the detection areas on both sides of the vehicle to the rear when the vehicle speed is about 32 km/h (20 mph) or more, and notifies the driver of vehicles in the detection area by illuminating the BSM warning light.

If the turn signal lever is operated in the direction the BSM warning light is illuminated, the system warns the driver of the vehicle in the detection area with a beep sound.



⚠ WARNING

Do not rely completely on the BSM system and be sure to look over your shoulder before changing lanes:

The BSM system can assist the driver in confirming the safety of the surroundings but is not a complete substitute. The driver is responsible for assuring lane changes and other maneuvers. Always pay attention to the direction in which the vehicle is traveling and the vehicle's surroundings.

NOTE

- The BSM system does not operate when the vehicle speed is lower than about 32 km/h (20 mph).
- The radar sensors are equipped inside the rear bumper. (page 5-37)
- The system may not operate normally when towing a trailer. Turn off the system by operating the BSM OFF switch when towing a trailer.
- The radar sensors do not detect human, animal, or static objects such as fences. In addition, the system pauses when the selector lever is shifted to the R position. (The system resumes automatically when the selector lever is shifted from the R position.)

- *The detectability of the radar sensors has its limitations. The BSM system may not operate properly under the following conditions:*
 - *Ice, snow, or soil adheres to the rear bumper surface around the radar sensors.*
 - *During adverse weather conditions such as rain or snow, or under conditions where water is sprayed.*
 - *The rear bumper area around the radar sensors is blocked by foreign material (such as stickers or a bicycle carrier).*
- *The radar sensors may not detect all types of vehicles around your vehicle, especially the following types of vehicles:*
 - *Motorcycles*
 - *Vehicles with body shapes that radar may not reflect such as a flatbed trailer with no cargo.*
 - *Vehicles with lower body height such as sports cars.*
- *Have the radar sensors inspected at an Authorized Mazda Dealer if any shock is applied to the rear bumper, even in a minor accident. If the vehicle is driven with a damaged radar sensor, the system may not operate properly resulting in an accident.*
- *For repairs or paintwork around the radar sensors, or replacement of the bumper, consult an Authorized Mazda Dealer.*
- *The radar sensors of the BSM system may be regulated under the radio wave related laws of the country where the vehicle is driven. The sensors in this system are approved for use in the U.S.A. (including territories), Canada, and Mexico. If a vehicle with a BSM system is driven in a country other than the U.S.A., Canada, or Mexico, the system has to be turned off using the BSM OFF switch.*
- *The detection area of the system has been determined based on the lane width of general freeways. Therefore on a road with a narrower lane width, the system may detect vehicles on a lane next to the adjacent lane and operate the warning light/beep. On a road with wider lane width, the system may not detect vehicles on the adjacent lane and may not operate the warning light/beep.*
- *Operation of the warning light/beep may be delayed or the system may not operate the warning light/beep under the following conditions:*
 - *The vehicle accelerates from a standing-start with a vehicle alongside.*
 - *A vehicle moves from a lane two lanes over to the adjacent lane.*
 - *The difference in vehicle speed between your vehicle and another vehicle is larger when passing or being passed, and the vehicle passes the detection area within a short period of time.*
 - *On a steep incline, or when there is a difference in height between lanes.*
 - *Immediately after the system has been activated by pressing the BSM OFF switch again after it has been turned off (BSM OFF indicator light in instrument panel illuminates) by pressing the switch.*
- *Although the system may detect objects on the road side such as parked vehicles or guardrails and operate the warning light/beep, it does not indicate a malfunction.*
- *If the vehicle is driven on a road with less traffic and few vehicles that the radar sensors can detect, the system may pause (The BSM OFF indicator light in the instrument panel flashes). However, it does not indicate a malfunction.*

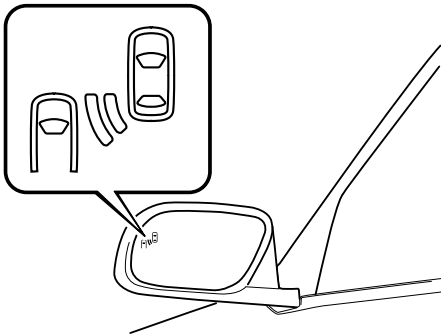
Starting and Driving

- The following conditions may affect the visibility of the BSM warning lights on the outside mirror, making it difficult to confirm the illumination of the lights:
 - Ice or snow adheres to the surface of the outside mirrors.
 - The door window glass is tinted.

▼ BSM Warning Light/Beep

BSM warning light

Equipped on the left and right door mirrors.



This warning light illuminates for a few seconds when the ignition switch is turned to the ON position.

If the BSM system detects a vehicle in the detection area while the vehicle is driven at a speed of about 32 km/h (20 mph) or more, the BSM warning light illuminates on the side of the vehicle where the rear on-coming vehicle is detected.

NOTE

- If ice or snow adhere to the outer mirror surface, the BSM warning light may not be visible.
- If the door window glass is tinted, it may affect the visibility of the BSM warning light, making it difficult to confirm the illumination of the light.

BSM warning beep

The warning beep operates when the turn signal lever is operated to the side where the BSM warning light is illuminated.

NOTE

The system can be customized so that the BSM warning beep does not operate. Consult an Authorized Mazda Dealer.

▼ BSM OFF Indicator Light

BSM OFF

This indicator light illuminates for a few seconds when the ignition switch is turned to the ON position.

The BSM OFF indicator light illuminates when the BSM system is turned off by pressing the BSM OFF switch.

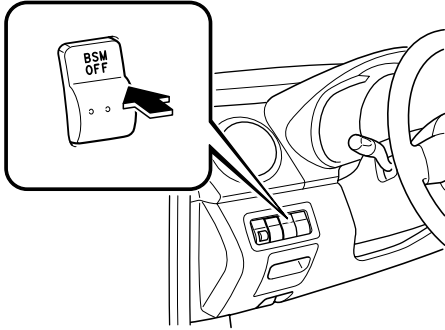
The indicator light flashes if the BSM system has a malfunction. Consult an Authorized Mazda Dealer.

NOTE

If the vehicle is driven on a road with less traffic and few vehicles that the radar sensors can detect, the system may pause (The BSM OFF indicator light in the instrument panel flashes). However, it does not indicate a malfunction.

▼ BSM OFF Switch

When the BSM switch is pressed, the BSM system turns off and the BSM OFF indicator light illuminates.



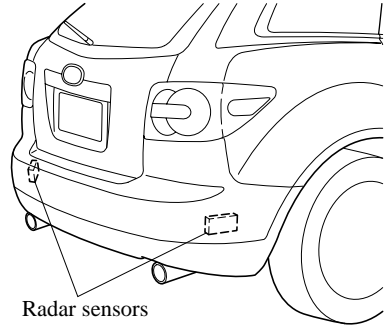
Press the BSM OFF switch again to turn on the BSM system. The BSM OFF indicator light turns off.

NOTE

- *The system may not operate normally when towing a trailer. Turn off the system by operating the BSM OFF switch when towing a trailer.*
- *If the ignition switch is turned to the LOCK position with the BSM system turned off, the system becomes operable automatically when the ignition switch is turned to the ON position.*

▼ Care of Radar Sensors

The radar sensors are equipped inside the rear bumper.



Always keep the bumper surface near the radar sensor area clean so that the BSM system operates normally. Refer to the Exterior Care (page 8-57).

NOTE

- *The BSM OFF indicator light flashes if the radar sensors cannot operate normally. If the light remains flashing after cleaning the bumper surface near the radar sensor area, consult an Authorized Mazda Dealer.*
- *For repairs or paintwork around the radar sensors, or replacement of the bumper, consult an Authorized Mazda Dealer.*

Starting and Driving

▼ Safety Certification

Radiation Hazard

This BSM (blind spot monitoring) device emits intentional electromagnetic radiation in the 24 GHz to 25 GHz frequency range. The total radiated average power over the entire bandwidth is below -14 dBm ($40 \mu\text{W}$). The active emitting antenna surface is 72 cm^2 ; therefore the radiated power density in front of the BSM device is $0.55 \mu\text{W}/\text{cm}^2$. This value is far below the legal human exposure protection limit of $1 \text{ mW}/\text{cm}^2$ (MPE) in Europe and US.

Declaration of compliance for 24 GHz blind spot radar

(U.S.A)

FCC ID: KR5SV2008BSD

This vehicle is equipped with a 24 GHz blind spot monitoring (BSM) radar system, which complies with part 15 of the FCC rules. Operation is subject to the following 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.
3. This device may only work when the vehicle is in operation pursuant to §15.252 (a) (4).

(CANADA)

ICDCE2008075 (temporary permission until RSS-220 is in force)

This vehicle is equipped with a 24 GHz blind spot monitoring (BSM) radar system, which complies with the (actually draft) RSS-220 standard of Industry Canada. Operation is subject to the following 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.
3. This device may only work when the vehicle is in operation pursuant to RSS-220 5.2 (b)

NOTE

During printing time of this user manual the approvals listed below are granted. Further countries may become available or actual certification identifiers may be subject to change or update.

⚠ WARNING

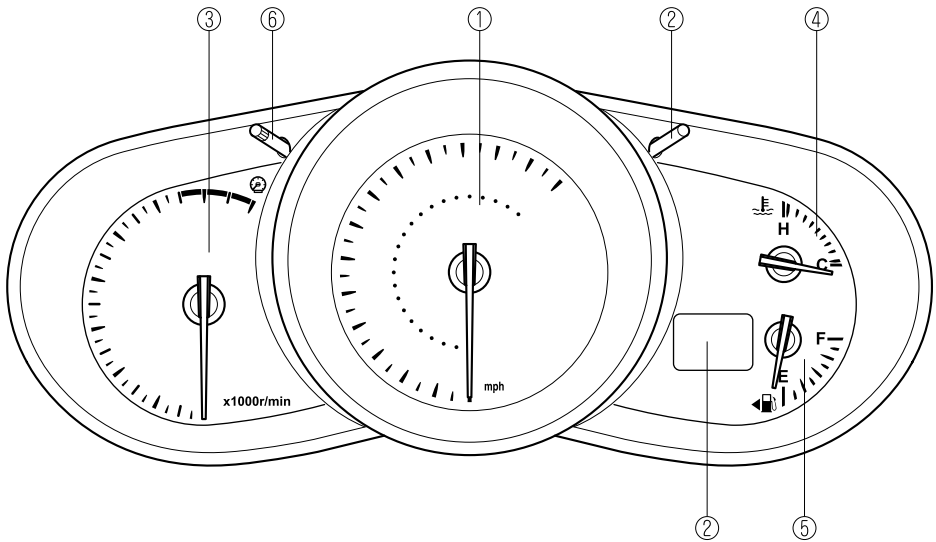
Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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 5-40
- ② Odometer, Trip Meter and Trip Meter Selector page 5-40
- ③ Tachometer page 5-41
- ④ Engine Coolant Temperature Gauge page 5-41
- ⑤ Fuel Gauge page 5-42
- ⑥ Dashboard Illumination page 5-42

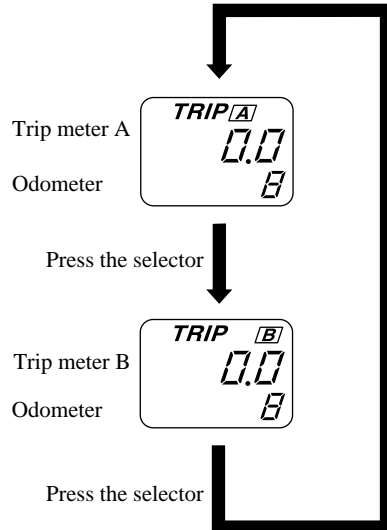
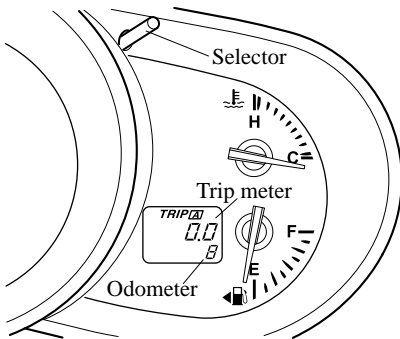
Instrument Cluster and Indicators

▼ 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.



NOTE

When the ignition switch is turned to 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.

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.

Instrument Cluster and Indicators

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.

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.

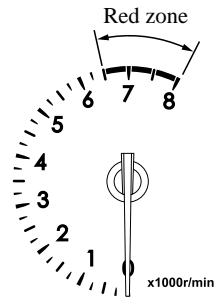
The trip meter records the total distance the vehicle is driven until the meter is again reset. Return it to "0.0" by holding the selector depressed for 1 second or more. Use this meter to measure trip distances and to compute fuel consumption.

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).

▼ Tachometer

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

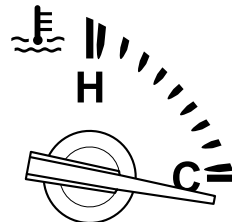


⚠ CAUTION

Do not 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.

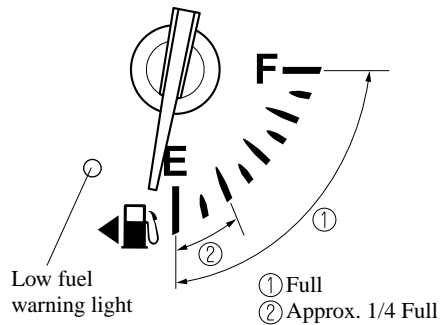
Instrument Cluster and Indicators

CAUTION

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

▼ Fuel Gauge

The fuel gauge shows approximately how much fuel is remaining in the tank when the ignition switch is in the ON position. 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

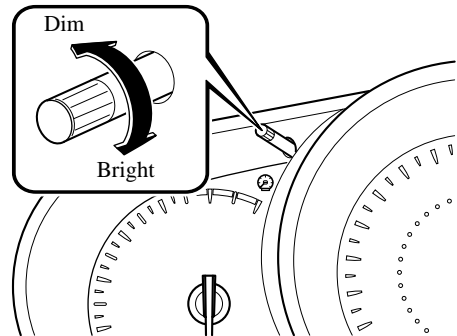
- After refueling, it may require some time for the needle to stabilize. In addition, the needle may deviate while driving on a slope or curve since the fuel moves in the tank.
- The direction of the arrow (↔) shows that the fuel-filler lid is on the left side of the vehicle.

▼ 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 ⌂ 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

When the headlight switch is in the ⌂ or ⌂ 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.

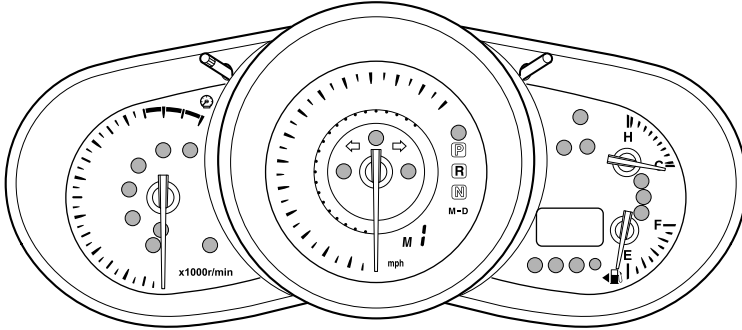
NOTE

- This symbol (Ⓢ) indicates the knob to adjust the brightness of the dashboard illumination.
- If the illumination dimmer is cancelled, the instrument cluster and the information display will not dim when the headlight switch is turned to the  or  position again.

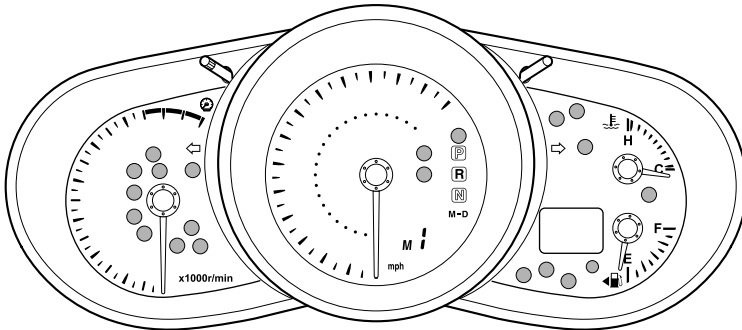
Warning/Indicator Lights and Beep Sounds

Warning/Indicator Lights

With Black-out meter

















Without Black-out meter







Warning/Indicator lights will appear in any of the highlighted areas

Warning/Indicator Lights and Beep Sounds

Signal	Warning/Indicator Lights	Page
	Brake System Warning Light	5-46
	Charging System Warning Light	5-48
	Engine Oil Pressure Warning Light	5-48
	Check Engine Light	5-49
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	Air Bag/Front Seat Belt Pretensioner System Warning Light	5-49
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AT	Automatic Transaxle Warning Light	5-52
4WD	AWD Warning Light	5-52
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	KEY Warning Light (Red)/KEY Indicator Light (Green)	5-55
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Warning/Indicator Lights and Beep Sounds

Signal	Warning/Indicator Lights	Page
	Headlight High-Beam Indicator Light	5-57
<i>PRNDM</i>	Shift Position Indicator Light	5-57
	TCS/DSC Indicator Light	5-57
TCS OFF	TCS OFF Indicator Light	5-57
CRUISE	Cruise Main Indicator Light (Amber)/Cruise Set Indicator Light (Green)	5-58
BSM OFF	BSM OFF Indicator Light	5-58
	Lights-On Indicator Light	5-59
	Turn Signal/Hazard Warning Indicator Lights	5-59

▼ Brake System Warning Light



This warning has the following functions:

Parking brake warning

The light illuminates when the parking brake is applied with the ignition switch in the START or ON position. It turns 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 depress 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, open the hood and check the brake fluid level immediately, and then add fluid if required (page 8-24).
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.

Warning/Indicator Lights and Beep Sounds

Even if the light turns off 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. 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.

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 may illuminate. If this occurs, it is the result of the weak battery and does not indicate an ABS malfunction. Recharge the battery.*
- *The brake assist system does not operate while the ABS warning light is illuminated.*

▼ Electronic Brake Force Distribution System Warning



BRAKE



If the electronic brake force distribution control unit determines that some components are operating incorrectly, the control unit may illuminate the brake system warning light and the ABS warning light on simultaneously. The problem is likely to be the electronic brake force distribution system.

Warning/Indicator Lights and Beep Sounds

⚠ 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 simultaneously 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.

⚠ CAUTION

Do not 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 8-21). If it's low, add the appropriate amount of engine oil while being careful not to overfill.
4. Start the engine and check the warning light.

If the light remains illuminated even after you add oil, stop the engine immediately and have your vehicle towed to an Authorized Mazda Dealer.

⚠ CAUTION

Do not run the engine if the oil pressure is low. It could result in extensive engine damage.

Warning/Indicator Lights and Beep Sounds

▼ Check Engine Light



This indicator light illuminates when the ignition switch is turned to the ON position and turns off when the engine is started.

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

The check engine light may illuminate 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.

▼ Air Bag/Front Seat Belt Pretensioner System Warning Light



If the air bag/front seat belt pretensioner system is working properly, the warning light illuminates when the ignition switch is turned to the ON position or after the engine is cranked. The warning light turns off after a specified period of time.

A system malfunction is indicated if the warning light constantly flashes, constantly illuminates or does not 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.

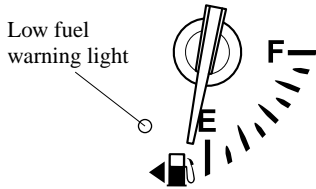
⚠ WARNING

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.

Warning/Indicator Lights and Beep Sounds

▼ 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.

▼ Check Fuel Cap Warning Light



This warning light illuminates for a few seconds when the ignition switch is turned to the ON position.

If the check fuel cap warning light illuminates while driving, the fuel-filler cap may not be installed properly. Stop the engine and reinstall the fuel-filler cap. Refer to the fuel-filler cap on page 3-47.

▼ 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 or restore the seat belt minder.

Warning/Indicator Lights and Beep Sounds

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.

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
- × : Unfastened
- ⬢ : 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.

Warning/Indicator Lights and Beep Sounds

▼ Door-Ajar Warning Light



This warning light illuminates when any door or liftgate is not securely closed. Close the door or liftgate securely before driving the vehicle.

▼ Low Washer Fluid Level Warning Light*



This warning light indicates that little washer fluid remains. Add fluid (page 8-28).

▼ 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.
- 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, or when trying to extricate the vehicle from mud, sand or similar conditions.

If the AWD warning light illuminates:

If the AWD warning light illuminates, contact an Authorized Mazda Dealer.

Warning/Indicator Lights and Beep Sounds

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 and a beep is heard 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. To determine if you have a slow leak or a flat, pull over to a safe position where you can check the visual condition of the tire and determine if you have enough air to proceed to a place where air may be added and the system monitored again by an Authorized Mazda Dealer or a tire repair station.

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 10-7).

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 turn off 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 turn off. 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 turns off.*
- *Tires lose air naturally over time and the TPMS cannot tell if the tires are getting too soft over time or you have a flat. However, when you find one low tire in a set of four—that is an indication of trouble; you should have someone drive the vehicle slowly forward so you can inspect any low tire for cuts and any metal objects sticking through tread or sidewall. Put a few drops of water in the valve stem to see if it bubbles indicating a bad valve. Leaks need to be addressed by more than simply refilling the trouble tire as leaks are dangerous - take it to an Authorized Mazda Dealer which has all the equipment to fix tires, TPMS systems and order the best replacement tire for your vehicle.*

Warning/Indicator Lights and Beep Sounds

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)



This indicator has two colors.

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.

⚠ WARNING

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.

Warning/Indicator Lights and Beep Sounds

- 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 3-22).

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 3-7).

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 3-21).

▼ 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 turns off.

If the engine does not 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.

Warning/Indicator Lights and Beep Sounds

▼ 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.



M-D



Gear position indicator

In manual mode, the “M” of the shift position indicator illuminates and the numeral for the selected gear displays in the gear position indicator.

▼ 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.

▼ 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 5-26.

If the light remains illuminated and 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, perform 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 light 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, attempt the procedure again. If this still does not work, 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 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.

▼ BSM OFF Indicator Light *

BSM OFF

This indicator light illuminates for a few seconds when the ignition switch is turned to the ON position.

The BSM OFF indicator light illuminates when the BSM system is turned off by pressing the BSM OFF switch.

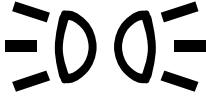
The indicator light flashes if the BSM system has a malfunction. Consult an Authorized Mazda Dealer.

NOTE

If the vehicle is driven on a road with less traffic and few vehicles that the radar sensors can detect, the system may pause (The BSM OFF indicator light in the instrument panel flashes). However, it does not indicate a malfunction.

Warning/Indicator Lights and Beep Sounds

▼ Lights-On Indicator Light



This indicator light illuminates 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 5-65).

When operating the hazard warning lights, both turn signal indicator lights flash (page 5-72).

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 the air bag/front seat belt pretensioner systems and the warning light, a warning beep sound will be heard for about 5 seconds every minute.

The air bag and seat belt pretensioner system warning beep sound will continue to be heard for approximately 35 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 or the front passenger'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 5-50.

▼ 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.

▼ 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 5-28).

▼ 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 3-19.

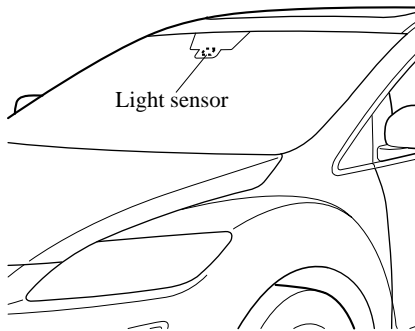
Lighting Control

▼ Headlights

CAUTION

(With AUTO position)

- Do not shade the light sensor by adhering a sticker or a label on the windshield. Otherwise the light sensor will not operate correctly.



- The light sensor also works as a rain sensor for the auto-wiper control. Keep hands and scrapers clear of the windshield when the wiper lever is in the AUTO position and the ignition switch is in the ON position as fingers could be pinched or the wipers and wiper blades damaged when the wipers activate automatically. If you are going to clean the windshield, be sure the wipers are turned off completely - this is particularly important when clearing ice and snow - when it is particularly tempting to leave the engine running.

NOTE

- If the light switch is left on, the lights will automatically switch off approximately 30 seconds after turning the ignition switch to the ACC or LOCK position.
- To prevent discharging the battery, do not leave the lights on while the engine is off unless safety requires them.

(With AUTO position)

- The headlights, other exterior lights and dashboard illumination may not turn off immediately even if the surrounding area becomes well-lit because the light sensor determines that it is nighttime if the surrounding area is continuously dark for several minutes such as inside long tunnels, traffic jams inside tunnels, or in indoor parking lots.

In this case, the light turns off if the light switch is turned to the OFF position.

- 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.
- The sensitivity of the AUTO lights may be changed by an Authorized Mazda Dealer.
- Instrument panel illumination can be adjusted by rotating the knob in the instrument cluster. Also, day/night mode can be changed by pressing the knob.

To adjust the brightness of the dashboard illumination:

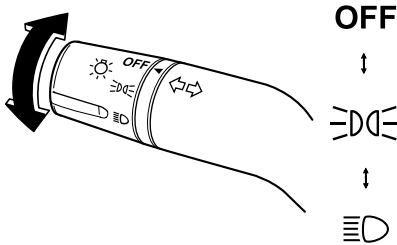
Refer to Dashboard Illumination on page 5-42.

Switches and Controls

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).

Type A (Without AUTO position)



Turn the headlight switch to turn the headlights, other exterior lights and dashboard illumination on or off.

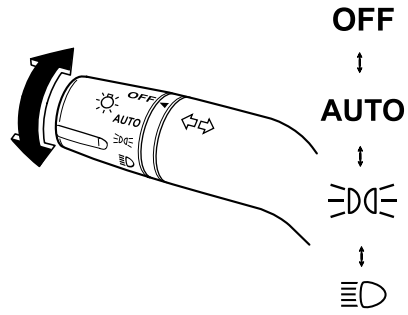
Ignition switched ON

Switch Position	OFF	☰☱☲	☳☴☵
Headlights	Off	Off	On
Taillights			
Parking lights			
License lights	Off	On	On
Side-marker lights			
Dashboard illumination			

Ignition switched OFF

Switch Position	OFF	☰☱☲	☳☴☵
Headlights	Off	Off	On
Taillights			
Parking lights			
License lights	Off	On	On
Side-marker lights			
Dashboard illumination			

Type B (With AUTO position)



Turn the headlight switch to turn the headlights, other exterior lights and dashboard illumination on or off.

Ignition switched ON

Switch Position	OFF	AUTO	☰☱☲	☳☴☵
Headlights	Off		Off	On
Taillights				
Parking lights				
License lights	Off	Auto	On	On
Side-marker lights				
Dashboard illumination				

Ignition switched OFF

Switch Position	OFF	AUTO	☰☱☲	☳☴☵
Headlights	Off	Off	Off	On
Taillights				
Parking lights				
License lights	Off	Off	On	On
Side-marker lights				
Dashboard illumination				

Type C (Running Lights with AUTO position)

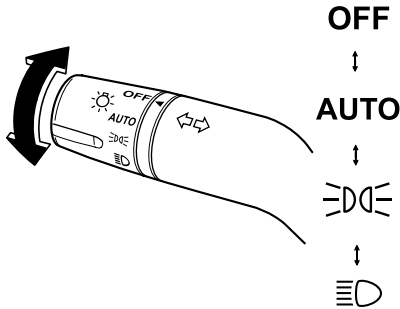
NOTE

The Daytime Running Lights turn off when the parking brake is applied.

Switches and Controls

(Canada)

The daytime running lights automatically turn on when the ignition switch is in the ON position.



Turn the headlight switch to turn the headlights, other exterior lights and dashboard illumination on or off.

Ignition switched ON

Switch Position	OFF	AUTO	☀️	☞
Headlights	On* ¹		On* ¹	On
Taillights				
Parking lights				
License lights				
Side-marker lights	Off	Auto* ²	On	On
Dashboard illumination				

Ignition switched OFF

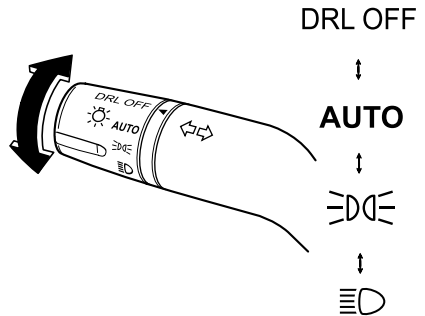
Switch Position	OFF	AUTO	☀️	☞
Headlights	Off	Off	Off	On
Taillights				
Parking lights				
License lights				
Side-marker lights	Off	Off	On	On
Dashboard illumination				

*1 Daytime running lights on

*2 The headlight and other light settings switch automatically depending on the surrounding brightness detected by the sensor.

(Except Canada)*

The daytime running lights turn on automatically when the ignition switch is in the ON position and the headlight switch is switched to the AUTO or ☀️ position.



Turn the headlight switch to turn the headlights, other exterior lights and dashboard illumination on or off.

Ignition switched ON

Switch Position	DRL OFF	AUTO	☀️	☞
Headlights	Off		On* ¹	On
Taillights				
Parking lights				
License lights				
Side-marker lights	Off	Auto* ²	On	On
Dashboard illumination				

*Some models.

Switches and Controls

Ignition switched OFF

Switch Position	DRL OFF	AUTO	☀️	☾
Headlights	Off	Off	Off	On
Taillights				
Parking lights				
License lights				
Side-marker lights	Off	Off	On	On
Dashboard illumination				

*1 Daytime running lights on

*2 The headlight and other light settings switch automatically depending on the surrounding brightness detected by the sensor.

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:

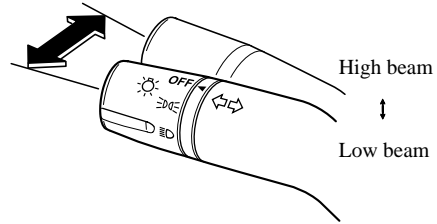
Replacing the xenon fusion bulbs yourself is dangerous. Because the xenon fusion bulbs require high voltage, you could receive an electric shock if the bulbs are handled incorrectly. Consult an Authorized Mazda Dealer when the replacement is necessary.

NOTE

If the headlights flicker, or the brightness weakens, the bulb-life may be depleted and a replacement is necessary. Consult an Authorized Mazda Dealer.

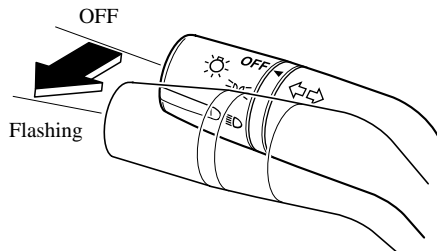
▼ Headlight High-Low Beam

Push the lever forward for high beam. Pull back to original position for low beam.



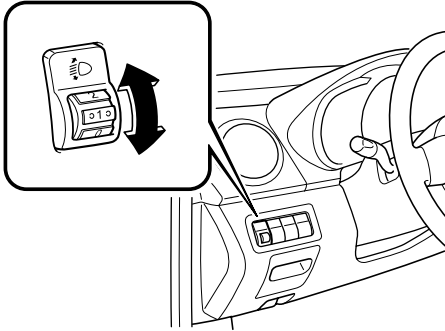
▼ Flashing the Headlights

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 passengers 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.

(Except Canada)*

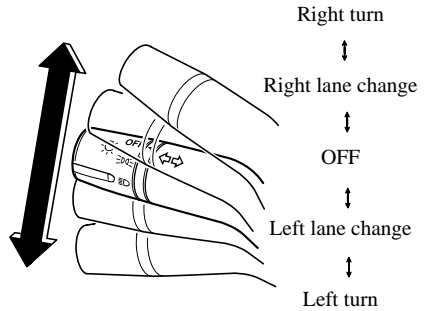
Some vehicles are equipped with daytime running lights. Refer to Headlights on page 5-61.

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

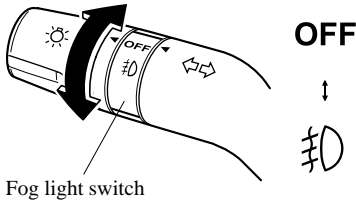
If an indicator light stays on without flashing or if it flashes abnormally, one of the turn signal bulbs may be burned out.


Switches and Controls

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 fog lights on, rotate the fog light switch to the  position. The headlight switch must be in the  position to turn on the fog lights.



To turn them off, rotate the fog light switch to the OFF position or turn the headlight switch to the  or OFF position.

NOTE

- The fog lights will turn off when the headlights are set at high beam.
- **(With auto-light control)**
If the fog light switch is in the ON position and the headlight switch is in the AUTO position, the fog lights will be turned on when the headlights, the exterior lights and dashboard illumination are automatically turned on.

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.

Only use windshield washer fluid mixed with anti-freeze protection in freezing weather conditions:

Using windshield washer fluid without anti-freeze protection in freezing weather conditions is dangerous as it could freeze on the windshield and block your vision which could cause an accident. In addition, make sure the windshield is sufficiently warmed using the defroster before spraying the washer fluid.

NOTE

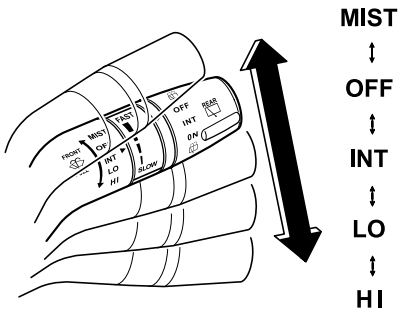
Because heavy ice and snow can jam the wiper blades, the wiper motor is protected from motor breakdown, overheating and possible fire by a circuit breaker. This mechanism will automatically stop operation of the blades, but only for about 5 minutes.

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 do not 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

Type A (With INT position)



Turn the wipers on by pulling the lever down.

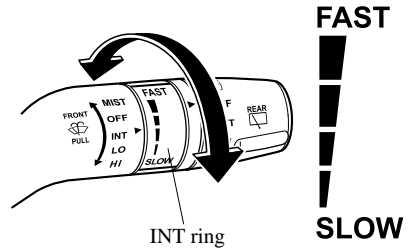
- INT** — Intermittent
- LO** — Low speed
- HI** — High speed

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

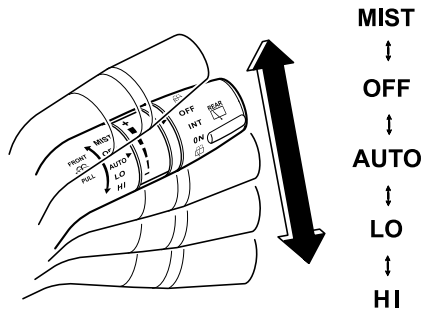
MIST — Mist

Variable-speed intermittent wipers

Set the lever to INT and choose the interval timing by rotating the ring.



Type B (With AUTO position)



Turn the wipers on by pulling the lever down.

- AUTO** — Auto control
- LO** — Low speed
- HI** — High speed

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

MIST — Mist

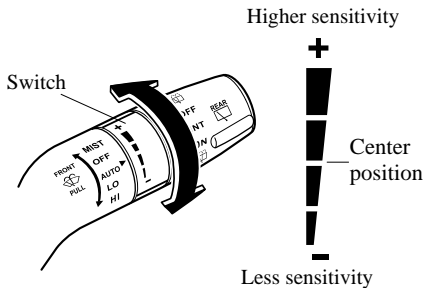
Switches and Controls

AUTO (Auto-wiper control)

When the wiper lever is in the AUTO position, the rain sensor senses the amount of rainfall on the windshield and turns the wiper on or off automatically (off—intermittent—low speed—high speed).

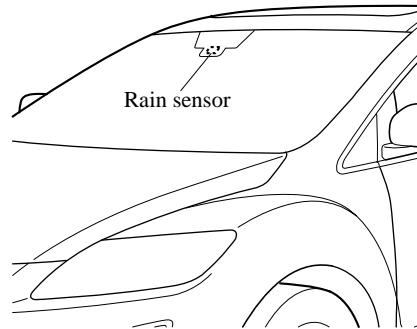
The sensitivity of the rain sensor can be adjusted by turning the switch on the wiper lever.

From the center position (normal), turn the switch towards (+) for higher sensitivity (faster response) or turn the switch towards (-) for less sensitivity (slower response).



CAUTION

- Do not shade the rain sensor by adhering a sticker or a label on the windshield. Otherwise the rain sensor will not operate correctly.



- When the wiper lever is in the AUTO position and the ignition switch is in the ON position, the wipers may move automatically in the following cases:
- If the windshield above the rain sensor is touched.
 - If the windshield above the rain sensor is wiped with a cloth.
 - If the windshield is struck with a hand or other object.
 - If the rain sensor is struck with a hand or other object from inside the vehicle.

Keep hands and scrapers clear of the windshield when the wiper lever is in the AUTO position and the ignition switch is in the ON position as fingers could be pinched or the wipers and wiper blades damaged when the wipers activate automatically.

If you are going to clean the windshield, be sure the wipers are turned off completely - this is particularly important when clearing ice and snow - when it is particularly tempting to leave the engine running.

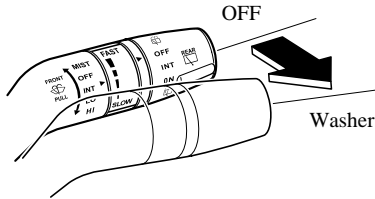
NOTE

- Switching the auto-wiper lever from the OFF to the AUTO position while driving at a vehicle speed of 4 km/h (2 mph) or higher (or after driving the vehicle) activates the windshield wipers once, after which they operate according to the rainfall amount.
- The auto-wiper control may not operate when the rain sensor temperature is about -10°C (14°F) or lower, or about 85°C (185°F) or higher.
- If the windshield is coated with water repellent, the rain sensor may not be able to sense the amount of rainfall correctly and auto-wiper control may not operate properly.
- If dirt or foreign matter (e.g. ice or matter containing salt water) adheres to the windshield above the rain sensor or if the windshield is iced, it could cause the wipers to move automatically. However, if the wipers cannot remove this ice, dirt or foreign matter, the auto-wiper control will stop operation. In this case, pull the wiper lever to the low speed or high speed position for manual operation, or remove the ice, dirt or foreign matter by hand to restore the auto-wiper operation.

Switches and Controls

▼ Windshield Washer

Pull the lever toward you and hold it to spray washer fluid.



NOTE

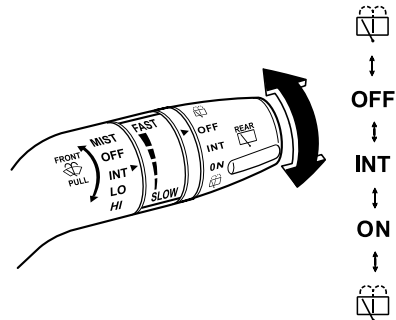
With the wiper lever in the OFF or INT (Type A)/AUTO (Type B) position, the wipers will operate continuously until the lever is released.

If the washer does not work, inspect the fluid level (page 8-28). If it's normal, 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 does not work, inspect the fluid level (page 8-28). If it's normal and the washer still does not work, consult an Authorized Mazda Dealer.

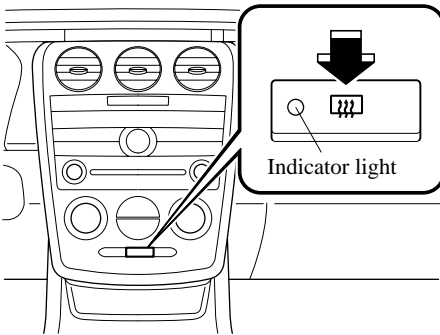
Rear Window Defroster

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.



CAUTION

Do not 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.

▼ Mirror Defroster*

To turn on the mirror defrosters, turn the ignition switch to the ON position and press the rear window defroster switch (page 5-71).

Switches and Controls

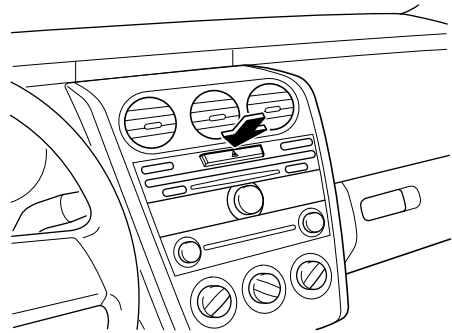
Horn

To sound the horn, press 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 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

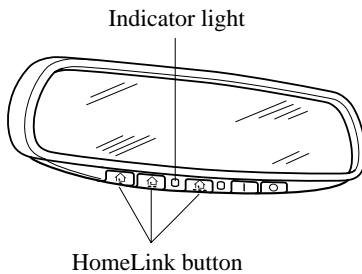
- *The turn signals do not work when the hazard warning lights are on.*
- *Check local regulations about the use of hazard warning lights while the vehicle is being towed to verify that it is not in violation of the law.*

HomeLink Wireless Control System*

NOTE

HomeLink and HomeLink house are registered trademarks of Johnson Controls.

The HomeLink system replaces up to 3 hand-held transmitters with a single built-in component in the auto-dimming mirror. Pressing the HomeLink button on the auto-dimming mirror activates garage doors, gates and other devices surrounding your home.



⚠ WARNING

Do not use the HomeLink system with any garage door opener that lacks the safety stop and reverse feature:

Using the HomeLink system with any garage door opener that lacks the safety stop and reverse feature as required by federal safety standards is dangerous. (This includes garage doors manufactured before April 1, 1982.)

Using these garage door openers can increase the risk of serious injury or death. For further information, contact HomeLink at 1-800-355-3515 or www.homelink.com or your Authorized Mazda Dealer.

Always check the areas surrounding garage doors and gates for people or obstructions before programming or during operation of the HomeLink system:

Programming or operating the HomeLink system without verifying the safety of areas surrounding garage doors and gates is dangerous and could result in an unexpected accident and serious injury if someone were to be hit.

⚠ CAUTION

HomeLink has been tested and complies with FCC and Industry Canada rules. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the device.

Switches and Controls

NOTE

FCC ID: NZLOBIHL3

CANADA:4112A-OBIHL3

This device complies with FCC rules part 15. Operation is subject to the following conditions:

- 1- This device may not cause any harmful interference and*
- 2- This device must accept any interference that may be received including interference that may cause undesired operation.*

NOTE

The programming will not be erased even if the battery is disconnected.

▼ Pre-programming the HomeLink System

NOTE

It is recommended that a new battery be placed in the hand-held transmitter of the device being programmed to HomeLink for quicker training and accurate transmission of the radio-frequency signal.

- Verify that there is a remote control transmitter available for the device you would like to program.
- Disconnect the power to the device.

▼ Programming the HomeLink System

CAUTION

When programming a garage door opener or a gate, disconnect the power to these devices before performing programming, as continuous operation of the devices could damage the motor.

The HomeLink system provides 3 buttons which can be individually selected and programmed using the transmitters for current, on-market devices as follows:

1. Press and hold the two outer HomeLink buttons (buttons one and three) — releasing only when the indicator light begins to flash (after 20 seconds). **Do not** hold the buttons for longer than 30 seconds and **do not repeat step 1** to program a second and/or third hand-held transmitter to the remaining two HomeLink buttons.
2. Position the end of your hand-held transmitter 2.5—7.5 cm (1—3 inches) away from the HomeLink button you wish to program while keeping the indicator light in view.
3. Simultaneously press and hold both the chosen HomeLink and hand-held transmitter buttons. **Do not release the buttons until step 4 has been completed.**

NOTE

Some gate operators and garage door openers may require you to replace this Programming Step 3 with procedures noted in the “Gate Operator/Canadian Programming” section.

4. After the HomeLink indicator light changes from a slow to a rapidly blinking light, release both the HomeLink and hand-held transmitter buttons.

NOTE

If the HomeLink indicator light does not change to a rapidly blinking light, contact HomeLink at www.homelink.com or call 1-800-355-3515 for assistance.

5. Press and hold the just-trained HomeLink button and observe the indicator light.

If the indicator light **stays on constantly, programming is complete** and your device should activate when the HomeLink button is pressed and released.

NOTE

To program the remaining two HomeLink buttons, begin with “Programming” — step 2. Do not repeat step 1.

If the indicator light blinks **rapidly for two seconds and then turns to a constant light, continue with “Programming” steps 6—8** to complete the programming of a rolling code equipped device (most commonly a garage door opener).

6. At the garage door opener receiver (motor-head unit) in the garage, locate the “learn” or “smart” button. This can usually be found where the hanging antenna wire is attached to the motor-head unit.
7. Firmly press and release the “learn” or “smart” button. (The name and color of the button may vary by manufacturer.)

NOTE

There are 30 seconds in which to initiate step 8.

8. Return to the vehicle and firmly **press, hold for two seconds and release** the programmed HomeLink button. Repeat the “**press/hold/release**” sequence a second time, and, depending on the brand of the garage door opener (or other rolling code equipped device), repeat this sequence a third time to complete the programming process.

HomeLink should now activate your rolling code equipped device.

NOTE

To program the remaining two HomeLink buttons, begin with “Programming” — step 2. Do not repeat step 1.

For questions or comments, please contact HomeLink at www.homelink.com or 1-800-355-3515.

▼ Gate operator/Canadian Programming

Canadian radio-frequency laws require transmitter signals to “time-out” (or quit) after several seconds of transmission — which may not be long enough for HomeLink to pick up the signal during programming. Similar to this Canadian law, some U.S. gate operators are designed to “time-out” in the same manner.

If you live in Canada or you are having difficulties programming a gate operator by using the “Programming” procedures (regardless of where you live), **replace “Programming HomeLink” step 3** with the following:

NOTE

If programming a garage door opener or gate operator, it is advised to unplug the device during the “cycling” process to prevent possible overheating.

Switches and Controls

Continue to press and hold the HomeLink button while you **press and release** — **every two seconds** (“cycle”) your hand-held transmitter until the frequency signal has successfully been accepted by HomeLink. (The indicator light will flash slowly and then rapidly.)

Proceed with “Programming” step 4 to complete.

▼ Operating the HomeLink System



Press the programmed HomeLink button to operate a programmed device. The code will continue being transmitted for a maximum of 20 seconds.

▼ Reprogramming the HomeLink system

To program a device to HomeLink using a HomeLink button previously trained, follow these steps:

1. Press and hold the desired HomeLink button. **DO NOT** release the button.
2. The indicator light will begin to flash after 20 seconds. Without releasing the HomeLink button, proceed with “Programming” - step 2.

▼ Erasing Programmed HomeLink Buttons

To erase the existing programming from all three operating channels, press and hold the two outside buttons ( , ) on the auto-dimming mirror until the HomeLink indicator light begins to flash after approximately 20 seconds.

Verify that the programming has been erased when you resell the vehicle.

6

Interior Comfort

Use of various features for drive comfort, including air-conditioning and audio system.

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Operating Tips	6-2	Sunvisors	6-97
Vent Operation	6-3	Interior Lights	6-98
Types of the Climate Control System	6-5	Information Display	6-100
Manual Type	6-6	Multi Information Display*	6-102
Fully Automatic Type	6-10	Cup Holder	6-119
Audio System	6-14	Bottle Holder	6-120
Antenna	6-14	Storage Compartments	6-120
Operating Tips for Audio System	6-15	Accessory Sockets	6-122
Audio Set	6-25		
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When Bluetooth Hands-Free Cannot be Used	6-95		
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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 ON position when the engine is not running.

▼ Clearing the Air Inlet

Clear all obstructions such as 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.

▼ 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

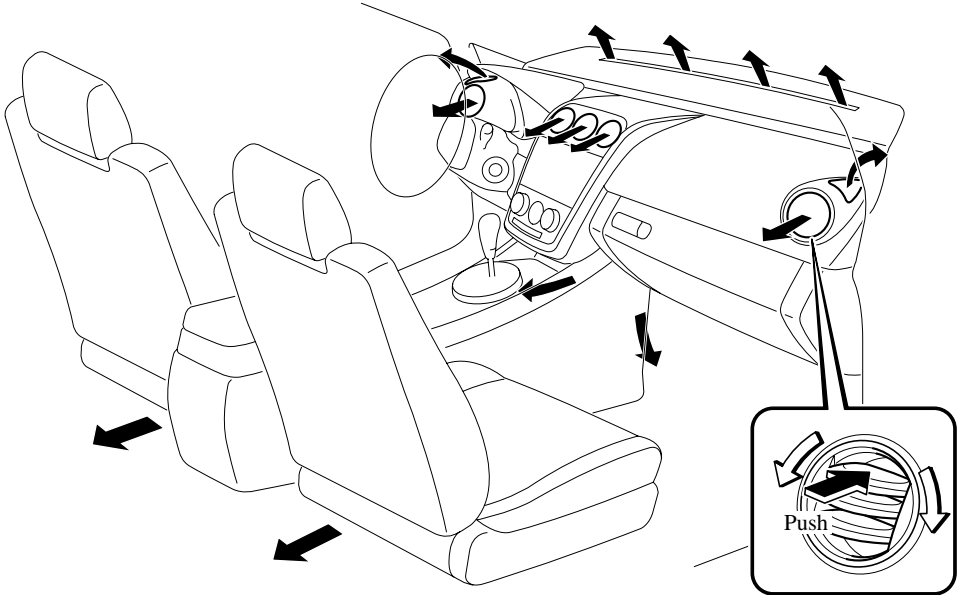
Run the air conditioner about 10 minutes at least once a month to keep internal parts lubricated.

▼ 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.

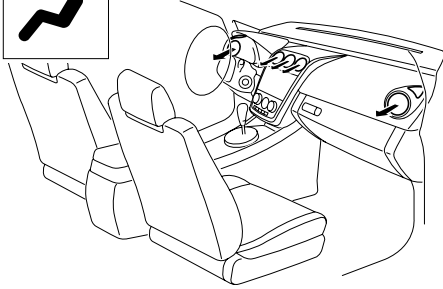
NOTE

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.

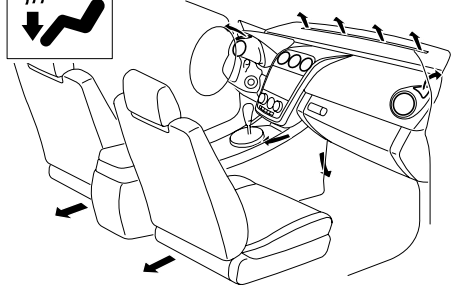
Climate Control System

▼ Selecting the Airflow Mode

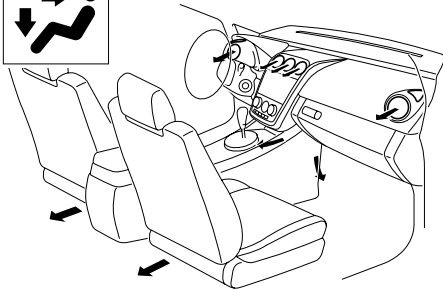
Dashboard Vents



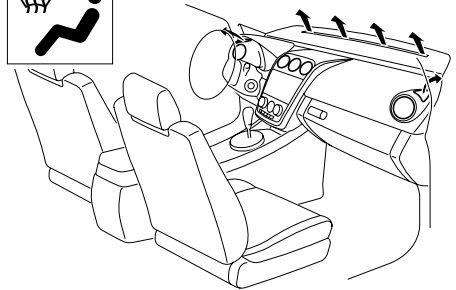
Defroster and Floor Vents



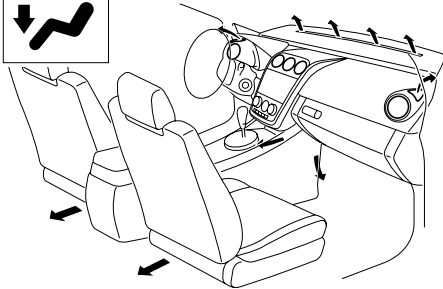
Dashboard and Floor Vents



Defroster Vents



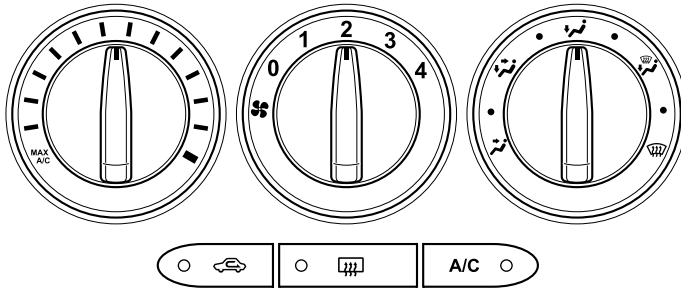
Floor Vents



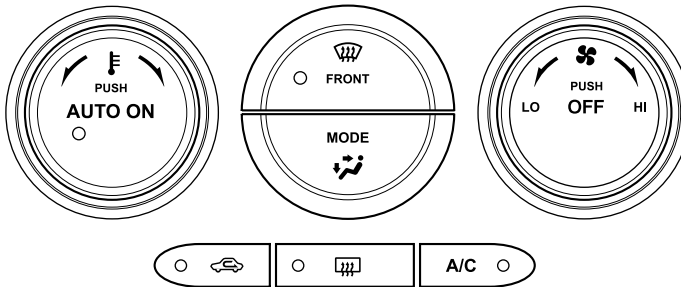
Types of the Climate Control System

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

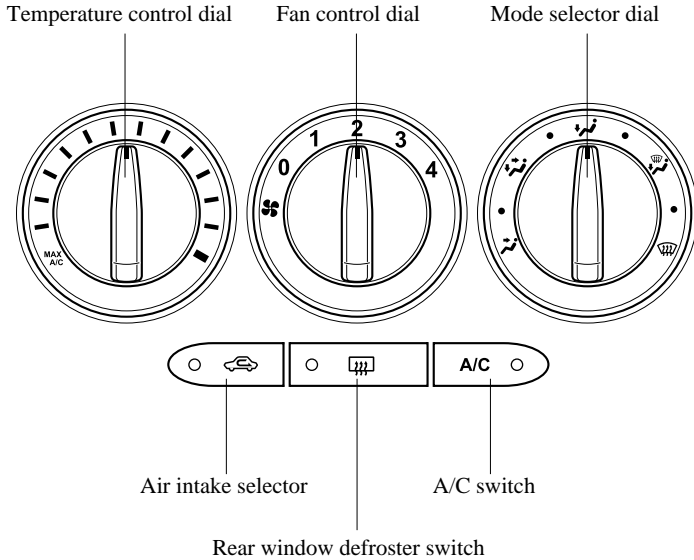


Fully Automatic Type page 6-10



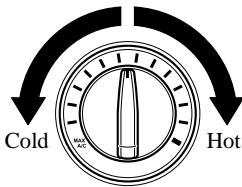
Climate Control System

Manual Type



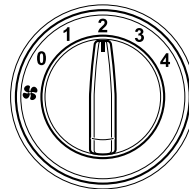
▼ Control Switches

Temperature control dial



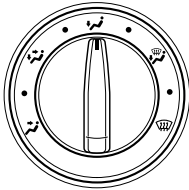
This dial controls temperature. Turn it clockwise for hot and counterclockwise for cold.

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

Mode selector dial

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

NOTE



- The mode selector dial can be set at the intermediate positions (●) between each mode. Set the dial to an intermediate position if you want to slightly adjust the airflow amount.
- 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.

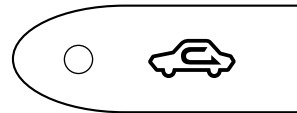
A/C switch

Press 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.


Press 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).
- When the mode is set to  or  with the fan control dial in a position other than 0 and the temperature control dial in the maximum cold position, the air intake selector switches to the recirculated air mode and the A/C turns on automatically. If A/C is not desired, press the A/C switch to turn it off.

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 turned off)

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

Recirculated air mode (indicator light illuminated)

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

Climate Control System


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.

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.

CAUTION


When using the air conditioner while driving up long hills or in heavy traffic, closely monitor the temperature gauge (page 5-41).

The air conditioner may cause engine overheating. If the gauge indicates overheating, turn the air conditioner off (page 7-11).


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.

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 the recirculated air mode.

▼ 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.

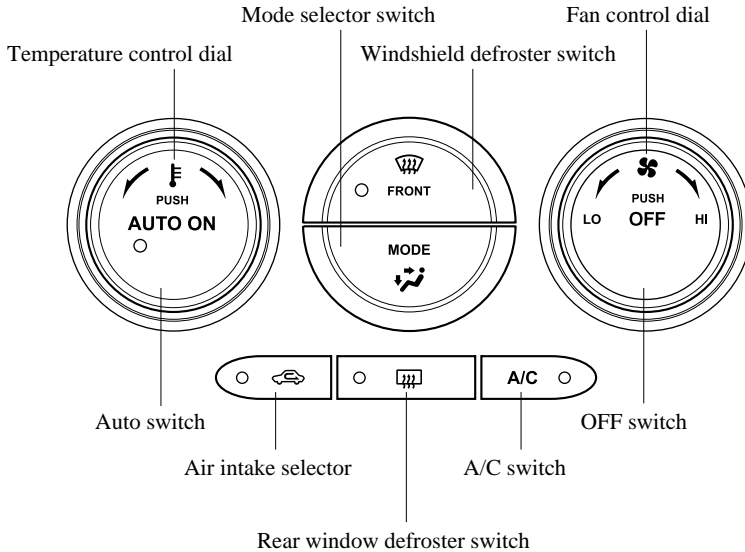
NOTE

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.

Climate Control System

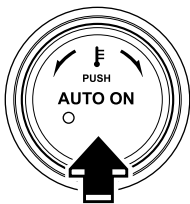
Fully Automatic Type

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 selected set temperature:

- Airflow temperature
- Amount of airflow
- Selection of airflow mode

- Outside/Recirculated air selection
- Air conditioner operation

NOTE

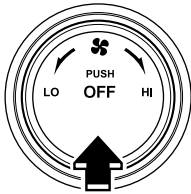
AUTO switch indicator light

- *When on, it indicates AUTO operation, and the system will function automatically.*
- *If any of the following dials or switches are operated while in AUTO control, the AUTO switch indicator turns off.*
 - *Mode selector switch*
 - *Fan control dial*
 - *Windshield defroster switch*

The functions for dials and switches other than those operated in the above continue to operate in AUTO control.

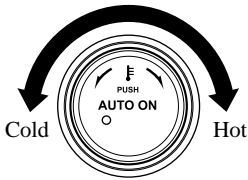
Climate Control System

OFF switch



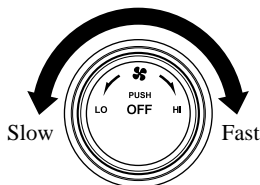
Pressing the OFF switch shuts off the climate control system.

Temperature control dial



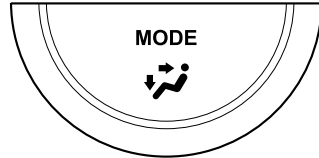
This dial controls temperature. Turn it clockwise for hot and counterclockwise for cold.

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



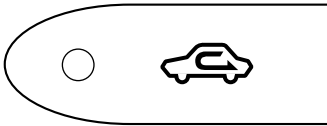
Pressing the A/C switch while the AUTO switch is turned on will turn off the air conditioning (cooling/dehumidifying functions). The air conditioning can be turned on and off by pressing the A/C switch while the fan control dial is on.

Climate Control System

NOTE

- The air conditioning operates when the A/C switch is pressed even if the fan control dial is off.
- 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)

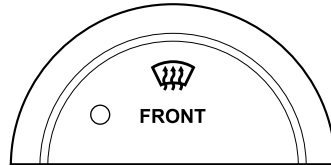
Use this position for normal conditions and defogging.

⚠ 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.

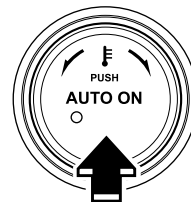
Windshield defroster switch



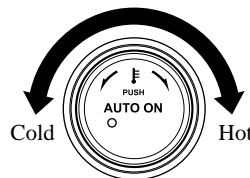
Press the switch to defrost the windshield and front door windows.

▼ **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.



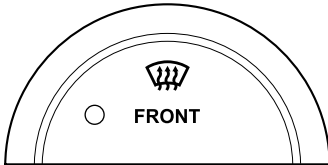
2. Use the temperature control dial to select a desired temperature.




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

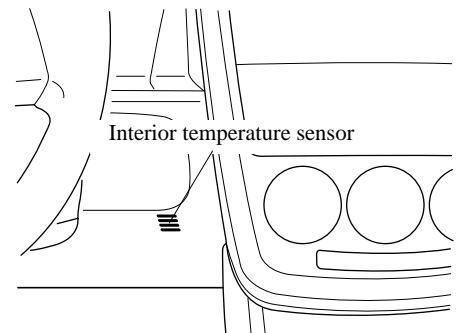
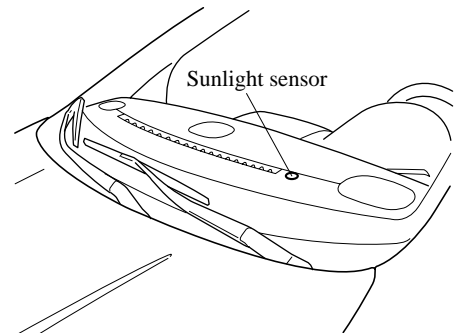
Use the temperature control dial to increase the air flow temperature and defog the windshield more quickly.

▼ 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.

⚠ CAUTION

Do not obstruct either sensor, otherwise the automatic air conditioner will not operate properly.



Audio System

Antenna

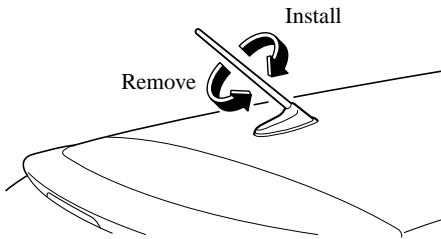
▼ Detachable Type

To remove the antenna, turn it counterclockwise.

To install the antenna, turn it clockwise. Make sure the antenna is securely installed.

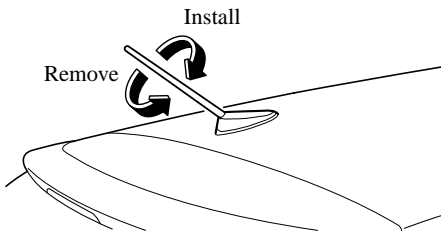
AM/FM Radio Antenna*

The AM/FM radio antenna receives both AM and FM signals.



Antenna for AM/FM and Satellite Radio Antenna*

The antenna for AM/FM and satellite radio antenna receives both AM and FM signals and SIRIUS signals.



⚠ 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 including car horns and particularly emergency vehicle sirens.

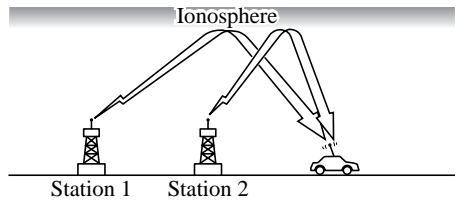
NOTE

- 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.
- 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

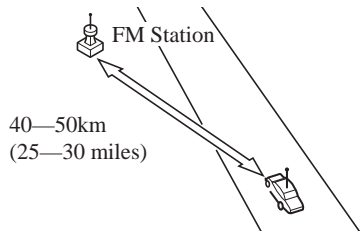
AM characteristics

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.



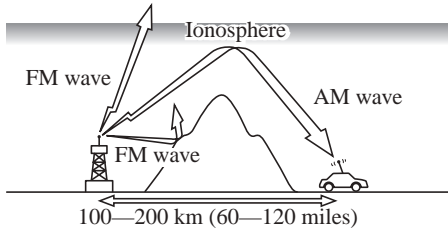
FM characteristics

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.



Audio System

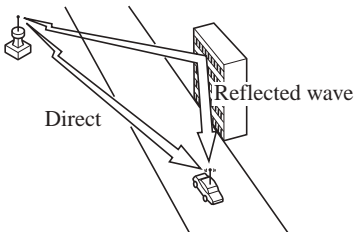
Signals from an FM transmitter are similar to beams of light because they do not bend around corners, but they do reflect. Unlike AM signals, FM signals cannot travel beyond the horizon. Therefore, FM stations cannot be received at the great distances possible with AM reception.



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

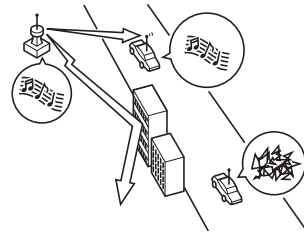
Multipath noise

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



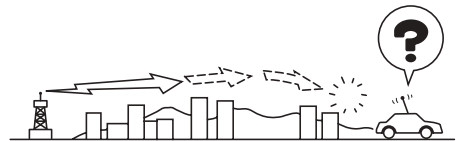
Flutter/Skip noise

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



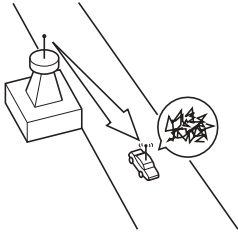
Weak signal noise

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



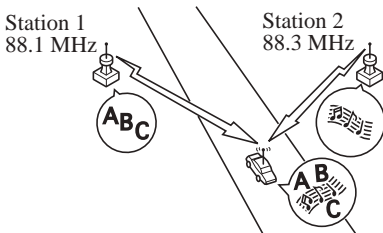
Strong signal noise

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



Station drift noise

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



▼ Operating Tips for CD Player/In-Dash CD Changer

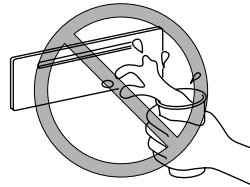
Condensation phenomenon

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.

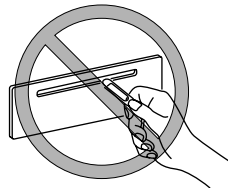
Handling the CD player/In-dash CD changer

The following precautions should be observed.

- Do not spill any liquid on the audio system.

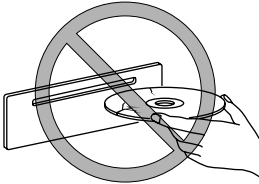


- Do not insert any objects, other than CDs, into the slot.

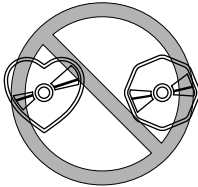


Audio System

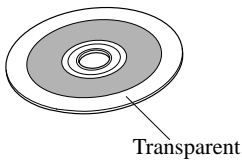
- The CD revolves at high speed within the unit. Defective (cracked or badly bent) CDs should never be used.



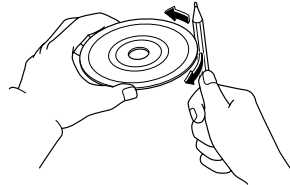
- Do not use non-conventional discs such as heart-shaped, octagonal discs, etc. The disc may not eject resulting in a malfunction.



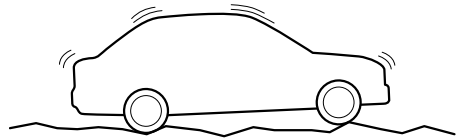
- If the memory portion of the CD is transparent or translucent, do not use the disc.



- 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.

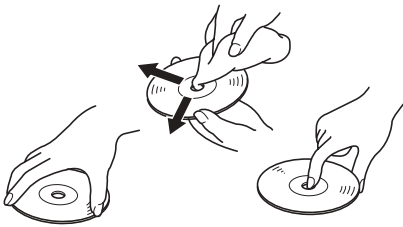


- The CD player/In-dash CD changer has been designed to play CDs bearing the identification logo as shown. No other discs can be played.

- Use discs that have been legitimately produced. If illegally-copied discs such as pirated discs are used, the system may not operate properly.



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

Audio System

- 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.

▼ 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>.

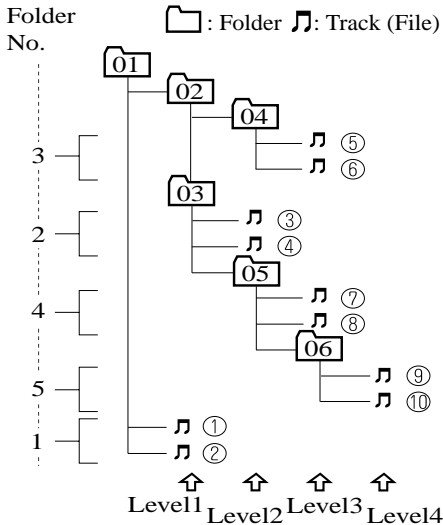
- This audio system handles MP3 files that have been recorded on CD-R/CD-RW/CD-ROMs. Discs that have been recorded using the following formats can be played:
 - ISO 9660 level 1
 - ISO 9660 level 2
 - Joliet extended format
 - Romeo extended format
 - This unit handles MP3 files conforming to the MP3 format containing both header frames and data frames.
 - This unit can play multi-session recorded discs that have up to 40 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.

NOTE

Folders and tracks (files) within the same hierarchy play in the order they were written to the disc depending on the write software.



Playback may not occur in the above hierarchy depending on the audio unit.

- 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 512 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 32 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.

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 Ver.1.0/1.1/2.2/2.3 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.

▼ Operating Tips for WMA

WMA is short for Windows Media Audio and is the audio compression format used by Microsoft.

Audio data can be created and stored at a higher compression ratio than MP3.

* Microsoft and Windows Media are registered trademarks of Microsoft Corporation U.S. in the United States and other countries.

Playable WMA file specification

CD-R and CD-RW including WMA files can be played with this unit. Discs which conform to the following formats can be played.

Playable WMA files are as follows:

Item		Content
Specification		Windows Media Audio Version 7.0, 8.0, 9.0
Sampling frequency	Bit rate	32kHz. 32, 40, 48 kbps
		44.1kHz 32, 48, 64, 80, 96, 128, 160, 192, 256, 320 kbps
		48kHz. 64, 96, 128, 160, 192 kbps
VBR (Variable Bit Rate)		Supported
Channel mode		Stereo/Monaural
WMA tag		Title, artist name, album name

 CAUTION

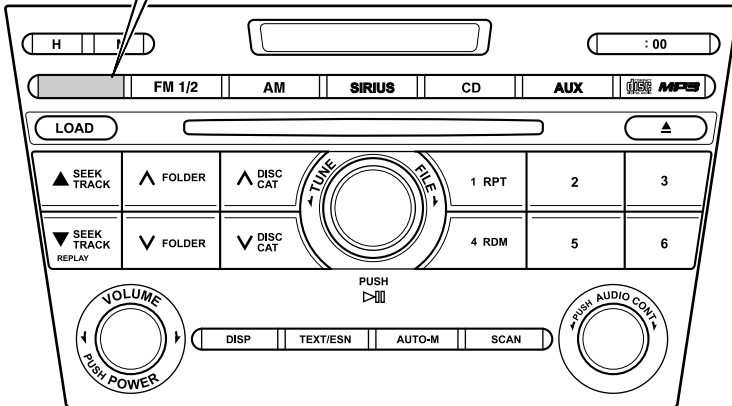
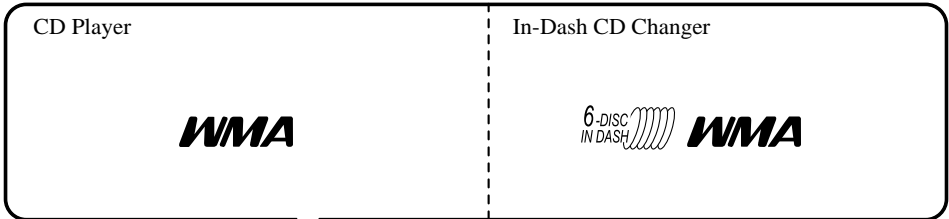
This unit plays files with the (.wma) file extension as a WMA file. Do not use the WMA file extension for files other than WMA files. It may cause noise or a malfunction.

- In a WMA file, the track name, artist name and album name are recorded with data called “WMA-Tag”, and the information can be displayed.
- WMA files which do not comply with the specific standard may not be played correctly or its file and folder name may not be displayed correctly.
- The file extension may not be provided depending on the computer operating system, version, software, or settings. In this case, add the file extension “.wma” to the end of the file name, and then write the disc.

MEMO

Audio Set

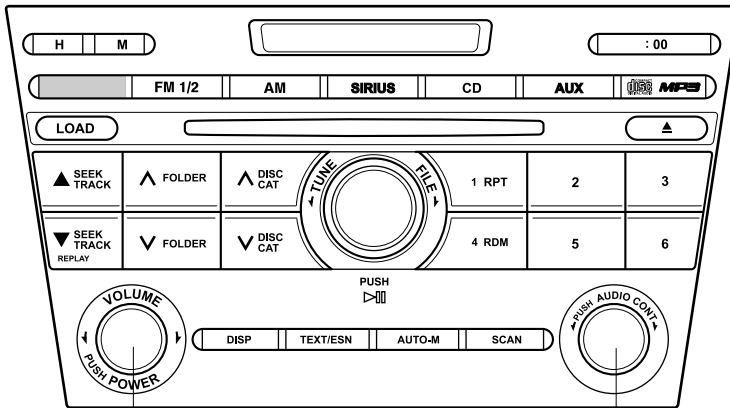
Audio information is displayed on the information display.



Power/Volume/Sound Controls	page 6-26
Operating the Radio	page 6-32
Operating the Satellite Radio	page 6-34
Operating the Compact Disc (CD) Player	page 6-46
Operating the In-Dash CD Changer	page 6-50
Operating the Auxiliary jack	page 6-54
Error Indications	page 6-55

Audio System

▼ Power/Volume/Sound Controls



Power/Volume dial

Audio control dial

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

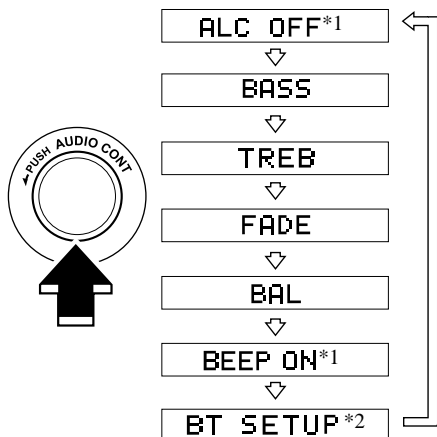
To adjust the volume, turn the power/volume dial.

Turn the power/volume dial to the right to increase volume, to the left to decrease it.

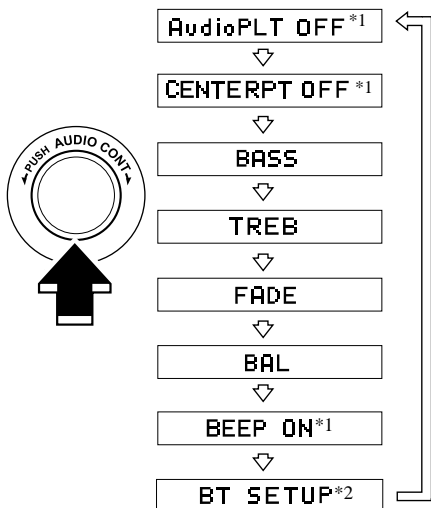
Audio sound adjustment

1. Press the audio control dial to select the function. The selected function will be indicated.

Standard audio-equipped model



Bose® Sound System-equipped model



- *1 Depending on the mode selected, the indication changes.
 - *2 Depending on the model, this function may not be available.
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
BT SETUP	Select mode	

Bose® Sound System-equipped model

Indication	Turn Left	Turn Right
AudioPLT	OFF	ON
CENTERPT	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
BT SETUP	Select mode	

Audio System

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)

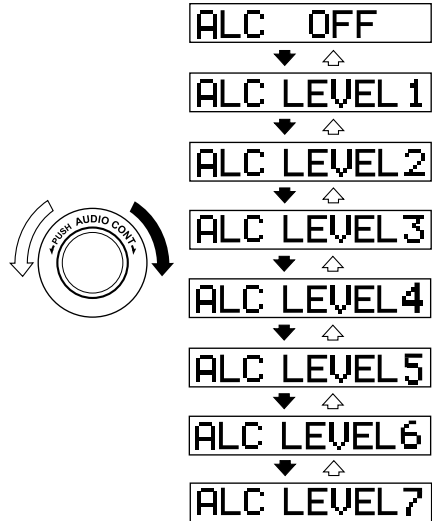
The automatic level control is a feature that automatically adjusts audio volume and sound quality according to the vehicle speed.

The volume increases in accordance with the increase in vehicle speed, and decreases as vehicle speed decreases.

Select the desired ALC mode.

Mode	Volume change
ALC OFF	No change
ALC LEVEL 1	Minimum
ALC LEVEL 2	▼ ▲
ALC LEVEL 3	▼ ▲
ALC LEVEL 4	Medium
ALC LEVEL 5	▼ ▲
ALC LEVEL 6	▼ ▲
ALC LEVEL 7	Maximum

Turn the audio control dial to select ALC OFF or ALC LEVEL1—7 modes. The selected mode will be indicated.



AudioPilot® 2 (Bose® Sound System-equipped model)

AudioPilot® 2 automatically adjusts audio volume and sound quality in accordance with the level of noise entering the vehicle interior while driving. When AudioPilot® 2 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® 2 is a registered trademark of Bose Corporation.

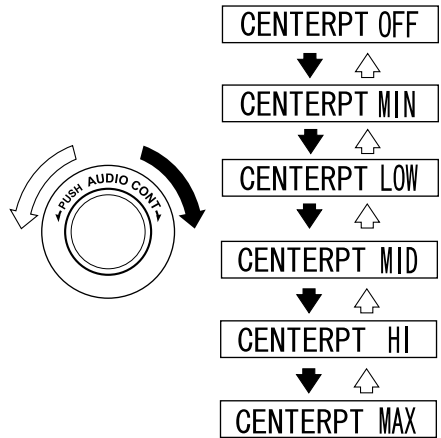
***Centerpoint® (Bose® Sound System-equipped model)**

Centerpoint® offers you the experience of 5.1-channel surround sound in your vehicle even with your conventional 2-channel stereo CDs.

The true surround sound effect of Centerpoint® can be adjusted to any one of five level between minimum and maximum enhancement.

Indication	Enhance level
CENTERPT OFF	Off
CENTERPT MIN	Minimum
CENTERPT LOW	Low
CENTERPT MID	Medium
CENTERPT HI	High
CENTERPT MAX	Maximum

Turn the audio control dial to select CENTERPT MIN—MAX mode. The selected mode will be indicated.



NOTE

- Centerpoint® operates optimally with a 2-channel stereo CD. MP3 audio files can be played, however, MP3 audio files encoded with high compression may result in poor sound quality.
- Centerpoint® is available for 2-channel stereo audio except for AM radio/FM radio/SIRIUS digital satellite radio/AUX/BT audio.

* Centerpoint® is a registered trademark of Bose Corporation.

BEEP setting

The beep-sound when operating the audio system can be set on or off.

Audio System

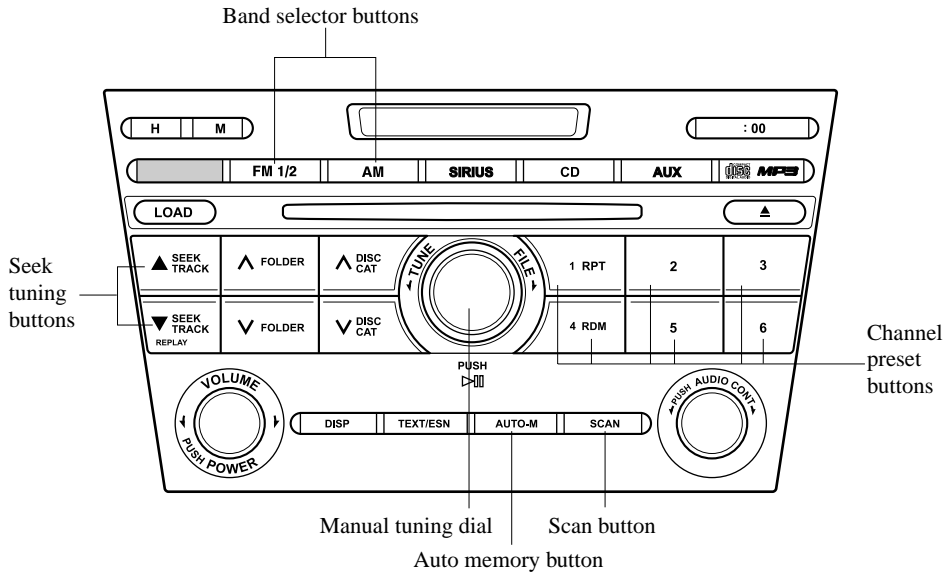
BT SETUP mode*

Music and other audio such as voice data recorded on portable audio devices and mobile phones available on the market which are equipped with the Bluetooth transmission function can be listened to via wireless transmission over the vehicle's speakers. Using the BT SETUP mode, these devices can be programmed to the Bluetooth unit or changed. For details, refer to Bluetooth audio (page 6-63).

MEMO

Audio System

▼ Operating the Radio



Radio ON

Press a band selector button (AM , FM1/2) to turn the radio on.

Band selection

Choose AM by pressing the AM button (AM) and FM by pressing the FM1/2 button (FM1/2).

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 erased.

Manual tuning

Turning the manual tuning dial will change the frequency higher or lower.

Seek tuning

Pressing the seek tuning button (▲ , ▼) will cause the tuner to seek a higher or lower frequency automatically.

NOTE

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

Scan tuning

Press the scan button (**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 erased.

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.

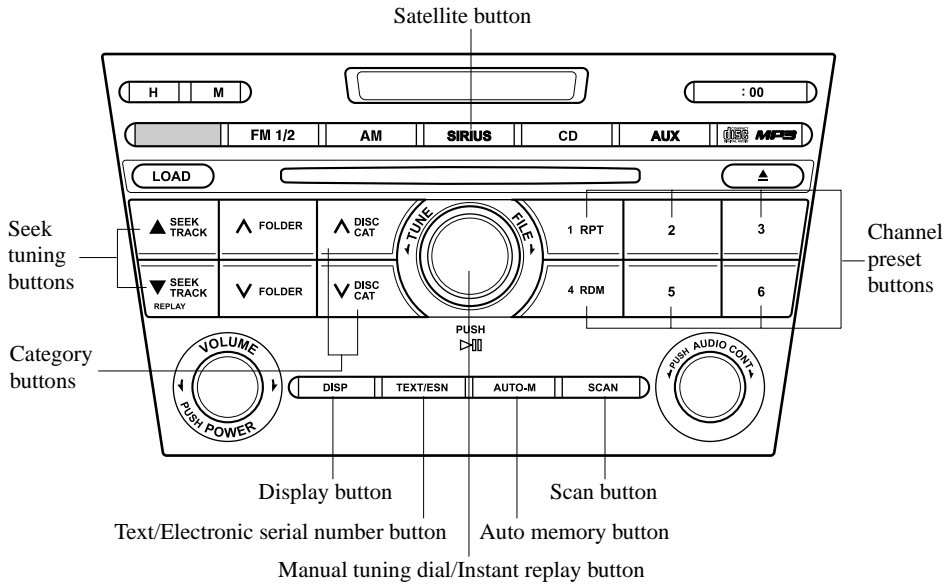
After scanning is completed, the station with the strongest frequency will be tuned and its frequency displayed. Press and release the auto memory button (**AUTO-M**) to recall stations from the auto-stored stations. One stored station will be selected each time; its frequency and channel number will be displayed.

NOTE

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

Audio System

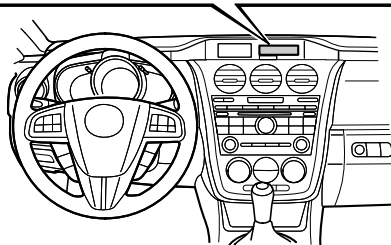
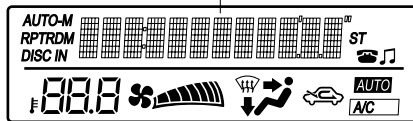
▼ Operating the Satellite Radio



Information display

All operations of the satellite radio are displayed on the Information display.

Channel number, Channel name, Category name, Artist name, Song title, ID code, Preset channel number, Bank number, Error signs



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. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Increase the separation between the equipment and tuner.
- Connect the equipment into an outlet on a circuit different from that to which the tuner is connected.
- Consult the dealer or an experienced radio/TV technician for help.

What is satellite radio?

SIRIUS is radio the way it was meant to be: More than 100 new channels of digital quality programming delivered to listeners coast to coast via satellite. That means channels of completely commercial-free music plus more channels of news, sports, and entertainment from names like CNBC, Discovery, SCI-FI Channel, A&E, House of Blues, E!, NPR, Speed vision and ESPN.

SIRIUS is live, dynamic entertainment, completely focused on listeners. Every minute of every day of every week will be different. All commercial-free music channels are created in-house and hosted by DJs who know and love the music. Do you like Reggae? How about Classic Rock or New Rock? SIRIUS has an array of choices spanning a vast range of musical tastes including the hits of the 50's, 60's, 70's, & 80's as well as Jazz, Country, Blues, Pop, Rap, R&B, Bluegrass, Alternative, Classical, Heavy Metal, Dance and many others.

From its state-of-the-art, digital broadcasting facility in Rockefeller Center, New York City, SIRIUS will deliver the broadest, deepest mix of radio entertainment from coast to coast.

SIRIUS will bring you music and entertainment programming that is simply not available on traditional radio in any market across the country. It's radio like you've never heard before.

Sign up for SIRIUS Radio today! For more information, visit www.sirius.com. Satellite radio can be subscribed to and received in the United States. (Except Alaska and Hawaii) and Canada.

Audio System

How to subscribe to satellite radio

Once the system is installed you must first subscribe to the SIRIUS Radio service to activate the system.

The SIRIUS Radio service uses an ID code to identify your radio. This code is needed to subscribe to SIRIUS Radio, and if needed, is also used to report any problems should there be any in the future. Listeners can subscribe using any of the following methods:

- Visiting SIRIUS on the web at www.sirius.com
- Subscribing to SIRIUS customer care, available 24 hours a day, 7 days a week.
- Calling 1-888-539-SIRI (7474)
- E-mail at: customercare@sirius-radio.com
- Writing to: SIRIUS XM RADIO
1221 Avenue of the Americas
New York, NY 10020
Attention: Customer Care

Customers should have their SIRIUS Radio ID Electronic Serial Number (ESN) ready.

NOTE

Your ESN should have been recorded at the time of installation. If not, press the ESN button for 1.5 seconds or longer, or turn the manual tuning dial to channel 0 to display the 12-digit ESN for the SIRIUS tuner.

Satellite radio activation

For activation and subscription information call toll-free at 1-888-539-SIRI (7474). A SIRIUS Customer Care representative will take the necessary information and walk you through the activation process. Or you can visit SIRIUS online at www.sirius.com.

Please have the following information ready when attempting to activate your service:

- SIRIUS ID (ESN*)
- Valid credit card information (type, number, expiration date)

When you are ready to receive the on-air activation signals you will be instructed (for activation via phone) to turn on your tuner, have the antenna pointed skyward, and to turn the manual tuning dial to channel 184.

Once the signal is sent from the national studio it may take up to ten minutes to be received by your unit.

NOTE

On-air activation is completed after the procedure, in most cases from ten seconds to ten minutes.

*ESN: Electronic Serial Number

SIRIUS operation

All operations of the satellite radio are conducted by means of the audio unit.

SIRIUS radio mode selection

When the satellite button is pressed during ACC ON, it will play the last SIRIUS channel in use before the mode was switched over to another mode or the power was turned off.

When the satellite button is pressed in a mode other than the SIRIUS mode, the last channel in use will be received.

Every time the satellite button is pressed, the bank changes in the order shown below.



NOTE

SR1, SR2 and SR3: six stations can be stored in each bank for convenient access to your favorite stations.

Operation in the initial state

It may take some time to start up the equipment when it is in the initial state, when there is a change in the user's subscription condition, or when the SIRIUS channel map is changed. "UPDATING xx%" is displayed when the SIRIUS channel map is changed. If the unit is initialized or the user contract content is changed, "UPDATING" is displayed. Updating could take as long as three minutes depending on the geographical area. When the unit is in an initialized state, channel 184 is displayed after the display indicates "UPDATING 100%". If the SIRIUS channel map or the user contract content is changed, the channel prior to the change is displayed after "UPDATING" is displayed. After the initialization display, it may take as long as 12 seconds to receive channel 184.

NOTE

Do not perform the following operation while "UPDATING" is displayed. Otherwise, the updating procedure will be cancelled.

- Turning off the audio power
- Switching to other modes
- Turning the ignition off

When the SIRIUS mode is switched to another mode, or when the power is turned off, the present channel which is being received is stored as the last channel.

Channel selection

Turning the manual tuning dial allows you to select the desired receiving channel.

- Turn the knob clockwise: Channel Up
- Turn the knob counterclockwise: Channel Down

Unsubscribed channel

When a selected station has not been subscribed to, the display indicates the following:
[CALL + 888] and [539 + SIRI]
(Flashes alternately)

NOTE

When the subscription contract is canceled, all of the channels including channel 184 appear as unsubscribed.

Invalid channel

When a selected channel is not broadcasting, [SR + (bank number) + INVALID] is displayed for one second, followed by [SR + (bank number) + CHANNEL], which is also displayed for one second. The display then returns to the previous valid channel.

Audio System

NOTE

If the last channel selected has become unavailable because of a channel update the above indication is displayed until any button is pressed.

Preset channel programming

(Programming with “channel number” display)

1. Select the desired channel to be programmed. At this point, the following is displayed:
[SR + (bank number) + (channel number)]
2. Keep pressing the channel preset button for 1.5 seconds or more. The programming process is complete after the channel number flashes. Then, [SR + (bank number)] is displayed and a beep sound is heard at the same time.
3. [SR + (bank number) + CH + (preset number) + (channel number)] are displayed.

(Programming with “text” display (e.g. channel name))

1. Select the desired channel to be programmed. At this point, the following is displayed:
[SR + (bank number) + (selected text (e.g. channel name))]
2. Keep pressing the channel preset button for 1.5 seconds or more. The programming process is complete after the text (e.g. channel name) flashes. Then, [SR + (bank number)] is displayed and you will hear beep sound at the same time.

3. SR + (bank number) + CH + (preset number) + (channel number)] are displayed.

4. Three seconds later, it returns to normal display. [SR + (bank number) + (text (e.g. channel name))]

NOTE

Six stations can be stored in each bank, SR1, SR2, and SR3 for convenient access to your favorite stations.

Preset channel call-up

Press and release the channel preset button,
[SR + (bank number) + CH + (preset number) + (channel number)] appears. When the preset button is pressed during text mode, its channel number is displayed first for three second and then its text is displayed.

NOTE

In the initial setting, all channels are preset to 184.

Category change

Press the category button (UP or DOWN) and select the desired category.

- Press the category button (UP):
Category up
- Press the category button (DOWN):
Category down

Every time the category (UP) button is pressed for 1.5 second or less, the category is changed over in the order shown below.

At this time, the lowest (smallest-number) channel within the category indicated is received.

When the highest (or lowest) category is reached, the category is changed over in the order shown below.

Highest category → Category all →
Lowest category

NOTE

While in “CATEGORY ALL” mode, all channels covering a category can be accessed (Category off condition).

Channel selection within a category

If category is not in “ALL” and the channel number is displayed, turning the manual tuning dial moves the channel number up/down in the present category.

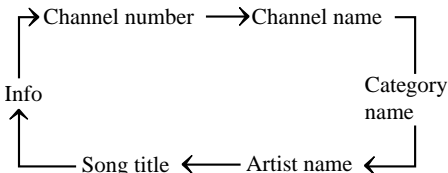
- Turn the manual tuning dial clockwise: Channel Up
- Turn the manual tuning dial counterclockwise: Channel Down

NOTE

The channel number needs to be indicated in the display to use manual tuning dial for this function.

Channel number, channel name, category, artist, song titles and info display

Each time the display button is pressed during SIRIUS reception, the display of the text data is changed over in the order shown below.



NOTE

- Eight characters are displayed on one screen.
- To display the rest of the characters of a long title, press the text button (TEXT). The display scrolls the next eight characters. Press the text button (TEXT) again after the last eight characters have been displayed to return to the beginning of the title.

(Channel number display)

- When the display button is pressed while in info display mode, the mode changes to the channel number display mode.

(Channel name display)

- When the display button is pressed while in channel number display mode, it changes to channel name display mode.
- There are short (eight fixed characters) and long names for the channel name.
- The long name is displayed first, and three seconds later the short name is displayed. If there is no short name, the long name is displayed.
- To display the rest of the characters of the channel name, press the text button (TEXT). The display scrolls the next eight characters. Press the text button (TEXT) again after the last eight characters have been displayed to return to the beginning of the title.
- Press the text button while the short name is displayed to switch the display to the long name.
- Three seconds after scrolling the long name, the display automatically returns to the first part of the long name. Three more seconds and the short name appears.

Audio System

- If there is no channel name, “No TITLE” is displayed.

(Category name display)

- When the display button is pressed while in channel name display mode, it changes to the category name display mode.
- There are short (eight fixed characters) and long names for the category name.
- The long name is displayed first, and three seconds later the short name is displayed. If there is no short name, the long name is displayed.
- To display the rest of the characters of the category name, press the text button (**TEXT**). The display scrolls the next eight characters. Press the text button (**TEXT**) again after the last eight characters have been displayed to return to the beginning of the title.
- Press the text button while the short name is displayed to switch the display to the long name.
- Three seconds after scrolling the long name, the display automatically returns to display the first part of the long name. Three more seconds and the short name appears.
- If there is no category name, “No CATEGORY” is displayed.

(Artist name display)

- When the display button is pressed while in category name display mode, it changes to the artist name display mode.
- To display the rest of the characters of the artist's name, press the text button (**TEXT**). The display scrolls the next eight characters. Press the text button (**TEXT**) again after the last eight characters have been displayed to return to the beginning of the title.

- Three seconds after scrolling the artist name, the display automatically return to display the first part of the artist's name.
- If there is no artist's name, “No ARTIST” is displayed.

(Song title display)

- When the display button is pressed while in artist name display mode, it changes to the song title display mode.
- To display the rest of the characters of the song title, press the text button (**TEXT**). The display scrolls the next eight characters. Press the text button (**TEXT**) again after the last eight characters have been displayed to return to the beginning of the title.
- Three more seconds after scrolling the song title, the display automatically returns to display the first part of the song title.
- If there is no song title, “No SONG” is displayed.

(INFO (such as composer's name) display)

- When the display button is pressed while in song title display mode, it changes to the INFO display mode.
- To display the rest of the characters of the composer's name, press the text button (**TEXT**). The display scrolls the next eight characters. Press the text button (**TEXT**) again after the last eight characters have been displayed to return to the beginning of the title.
- Three seconds after scrolling the text, the display automatically returns to display the first part of the text.
- If there is no composer name, “No INFO” is displayed.

Instant replay

This function allows you to rewind and replay the program that you were previously or are currently listening to. Press the instant replay button (▶||). When the seek tuning button (▼) is pressed (about 1.5 seconds), playback starts from the beginning of the current program.

When the seek tuning button (▼) is pressed twice, playback starts from the beginning of the previous program.

When the seek tuning button (▼) is pressed for about 1.5 seconds or longer, the program is reversed while the button is being pressed.

When the seek tuning button (▲) is pressed (about 1.5 seconds), playback starts from the beginning of the next program. When the seek tuning button (▲) is pressed (about 1.5 seconds) while the last program is being played, the instant replay mode is cancelled.

When the seek tuning button (▲) is pressed for 1.5 seconds or longer, the program is fast-forwarded while the button is being pressed. When pressing and holding the button until the end of the program, the instant replay mode is cancelled.

When the instant replay button is pressed again, playback is paused, or playback starts if it has been paused.

Instant replay (PAUSE)

If the instant replay button is pressed while the instant replay mode is off, instant replay mode is turned on in a paused condition (PAUSE). Press the instant replay button again to resume playback from the point at which it was paused.

NOTE

- If the channel is changed, the instant replay buffer data is deleted.
- After turning on the power and switching to SIRIUS digital satellite radio mode, the instant replay mode is not available for several seconds after changing channels.

Displaying the SIRIUS ID (ESN)

When the ESN button is pressed for 1.5 seconds or longer, or the manual tuning dial is turned to channel 0, a 12-digit Electronic Serial Number (ESN) for the SIRIUS tuner is displayed.

(If the SIRIUS ID (ESN) for the tuner does not display)

If “ESN + FAIL” is displayed after pressing the ESN button for 1.5 seconds or longer, contact an Authorized Mazda Dealer.

Initialization of ID code

If the registered ID code is forgotten, return the ID code to the default [0000] by performing the following steps:
Setting condition: SAT mode

(Master code input preparation)

1. Press and hold the auto memory button, then press channel preset button
4. Hold both buttons together for 1.5 seconds.
2. “ENTER PIN” appears for two seconds which indicates that it is in code input mode.
3. “SR1 - - - -” appears, which indicates that it is ready for code input.

Audio System

(Master code input)

4. Input the master code using the channel preset buttons 1-4.
(The master code is already set at the time of factory shipment.)

(Master code input determination)

5. Determine the master code which has been input by pressing the auto memory button.
6. "PIN CLEARED" appears which indicates that the master code input has been completed.
7. The ID code is set to the default [0000] and the initialization process is completed.

NOTE

Master code:

The Master Code is used to initialize or re-initialize the ID code in the event that the code is not set to [0000] and/or the personalized ID code is not known. The initialization process resets the ID code to [0000]. The master code can potentially defeat the intent of the security of the parental lock if it is located by persons not authorized by the owner to access certain channels.

SIRIUS Satellite Radio Master Code: [0913]

NOTE

- *When a numeric value other than the master code is input and the auto memory button is pressed, "SR1 Err" is displayed and then it returns to the "SR1 - - - -" display again.*
- *If an ID code is not input for ten seconds, "Err" is displayed and it returns to the former display.*
- *Channel preset buttons 1, 2, 3, 4 and the auto memory button are used for inputting the ID code. Buttons 5 and 6 cannot be used.*

Change of ID code

Setting condition: SAT mode

When changing the ID code, the new ID code is input after the previous one is input first.

(Registered ID code input)

1. Press and hold the auto memory button, then press channel preset button 5. Hold both buttons together for 1.5 seconds.
2. "ENTER PIN" appears for two seconds which indicates that it is in code input mode.
3. "SR1 - - - -" appears, which indicates that it is ready for code input.
4. Input the registered ID code using channel preset buttons 1-4.
Example: When the registered ID code is "2323", input "2323". At this time "SR1 2323" is displayed.
Press 1 for the first digit, 2 for the second, 3 for the third, and 4 for the last digit. For example, if your number is 2323, press 1 three times (includes 0), 2 four times, 3 three times, and 4 four times. If the display goes off while inputting, begin from Step 1.

NOTE

The registered ID code is the default [0000] at the time of factory shipment. If [0000] results in “Err” on the display, go to the “INITIALIZATION OF ID CODE” section to reset to [0000].

(Verification with the registered ID code)

5. Determine the input code by pressing the auto memory button.
6. If it does not match with the previously registered code, “SR1 Err” is displayed and then it returns to “SR1 - - - -”.
7. If it matches with the previously registered code, “ENTER PIN” appears again and it switches to code input mode.
8. “SR1 - - - -” appears, and it is ready for input of the new ID code.

(New ID code input)

9. Input the new ID code using channel preset buttons 1-4.
Example: If “1234” is input as the new code, “SR1 1234” is displayed.

(New ID code input determination)

10. Determine the new ID code which has been input by pressing the auto memory button.
11. “PIN CHANGED” appears for three seconds which indicates that the new ID code input has been completed.
12. It returns to the former display.

NOTE

- If an ID code is not input for ten seconds, “Err” is displayed and it returns to the former display.
- Channel preset buttons 1, 2, 3, 4 and the auto memory button are used for input of the ID code. Buttons 5 and 6 cannot be used.

Individual channel locking

If a channel is locked, the channel is muted.

NOTE

If the registered ID code is forgotten, return the ID code to the default [0000]. (See “INITIALIZATION OF ID CODE” section)

(Locking a channel)

1. Select a channel to be locked by turning the manual tuning dial.
Example: Select channel 100

(Registered ID code input preparation)

2. Press and hold the auto memory button, then press channel preset button 6. Hold both buttons together for 1.5 seconds.
3. “ENTER PIN” appears for two seconds which indicates that it is in code input mode.
4. “SR1 - - - -” appears which indicates that it is ready for code input.

(Registered ID code input)

5. Input the registered ID code using channel preset buttons 1-4. Example: If the registered ID code is “2323”, input “2323”. At this time “SR1 2323” is displayed.

Audio System

(Registered ID code input determination)

6. Determine the code which has been input by pressing the auto memory button.
7. If it does not match the registered code, "SR1 Err" is displayed and then it returns to "SR1 - - - -".
8. If it matches the registered code, "SR1 LOCK" appears for three seconds which indicates that the code input has been completed.
9. "SR1 LOCK 100" appears which indicates that the parental lock is activated. At this time, mute is on and no sound is heard.

NOTE

- If an ID code is not input for ten seconds, "Err" is displayed and it returns to the former display.
- Channel preset buttons 1, 2, 3, 4 and the auto memory button are used for input of the ID code. Buttons 5 and 6 cannot be used.

Lock cancellation

Setting condition: SAT mode

(Releasing a locked channel)

1. Select a channel to be released by turning the manual tuning dial.
Example: Select the locked channel (i.e. 100). At this time, "SR1 LOCK 100" is displayed.

(Registered ID code input preparation)

2. Press and hold the auto memory button, then press channel preset button 6. Hold both buttons together for 1.5 seconds.

3. "ENTER PIN" appears for two seconds which indicates that it is in code input mode.
4. "SR1 - - - -" appears, which indicates that it is ready for code input.

(Registered ID code input)

5. Input the registered ID code using channel preset buttons 1-4. Example: When the registered ID code is "2323", input "2323". At this time "SR1 2323" is displayed.

NOTE

If "Err" is displayed, go to the "INITIALIZATION OF ID CODE" section to reset the ID code to [0000].

(Registered ID code input determination)

6. Determine the input code by pressing the auto memory button.
7. If it does not match the registered code, "SR1 Err" is displayed and then it returns to "SR1 - - - -".
8. If it matches the registered code, "SR1 UNLOCK" appears for three seconds which indicates that the code input has been completed.
9. "SR1 100" appears which indicates that the parental lock is off. At this time, sound is heard.

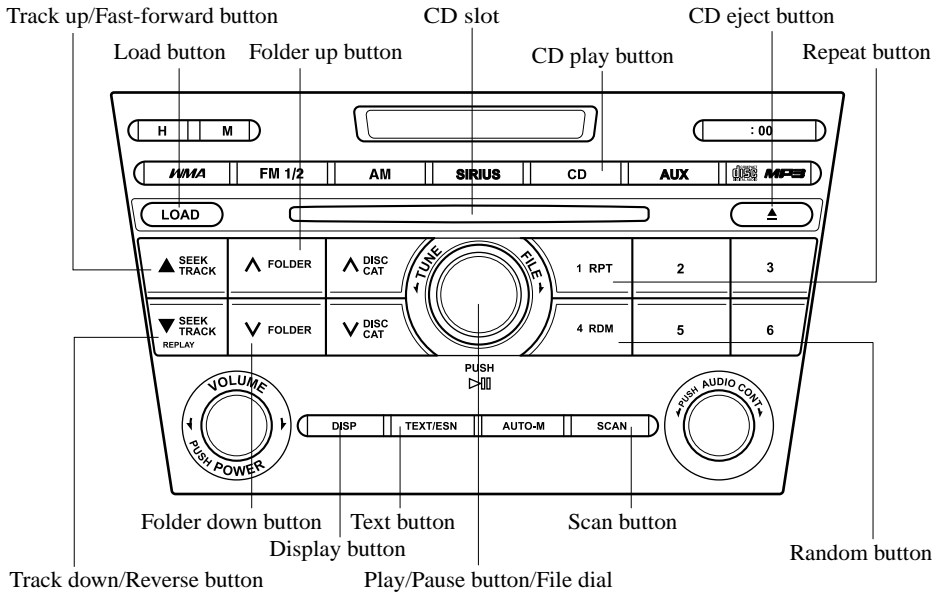
NOTE

- If an ID code is not input for ten seconds, "Err" is displayed and it returns to the former display.
- Channel preset buttons 1, 2, 3, 4 and the auto memory button are used for input of the ID code. Buttons 5 and 6 cannot be used.

MEMO

Audio System

▼ Operating the Compact Disc (CD) Player



Type	Playable data
Music/MP3/WMA CD player	<ul style="list-style-type: none"> Music data (CD-DA) MP3/WMA file

NOTE

If a disc has both music data (CD-DA) and MP3/WMA files, playback of the two or three file types differs depending on how the disc was recorded.

Inserting the CD

Insert the CD into the slot, label-side up. The auto-loading mechanism will set the CD and begin play.

NOTE

There will be a short lapse before play begins while the player reads the digital signals on the CD.

Ejecting the CD

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

Playback

Press the CD play button (CD) to start play when a CD is in the unit. If a CD is not 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.

Pause

To stop playback, press the Play/Pause button (▶||). Press the button again to resume playback.

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 (▲) or turn the file dial clockwise once to skip forward to the beginning of the next track.

Press the track down button (▼) or turn the file dial counterclockwise once to skip back to the beginning of the current track.

Folder search (during MP3/WMA CD playback)

To change to the previous folder, press the folder down button (V), or press the folder up button (Λ) 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 playback to start the scan play operation (the track number will flash).

Press the scan button (SCAN) again to cancel scan playback.

NOTE

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

Repeat playback

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 playback.

During MP3/WMA CD playback

(Track repeat)

1. Press the repeat button (RPT) during playback to play the current track repeatedly. "TRACK RPT" is displayed.
2. To cancel the repeat playback, 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. "FOLDER RPT" is displayed.
2. Press the button again to cancel the repeat playback.

Random playback

Tracks are randomly selected and played.

During music CD playback

1. Press the random button (RDM) during playback to play the tracks on the CD randomly. "RDM" is displayed.
2. Press the button again to cancel the random playback.

During MP3/WMA CD playback

(Folder random)

1. Press the random button (RDM) during playback to play the tracks in the folder randomly. "FOLDER RDM" is displayed.
2. To cancel the random playback, press the button again after 3 seconds.

Audio System

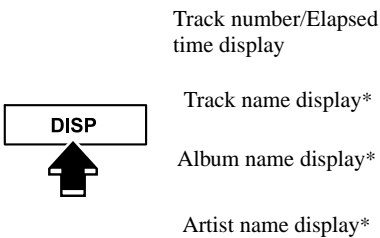
(CD random)

1. Press the random button (**RDM**) during playback, and then press the button again within 3 seconds to play the tracks on the CD randomly. "DISC RDM" is displayed.
2. Press the button again to cancel the random playback.

Switching the display

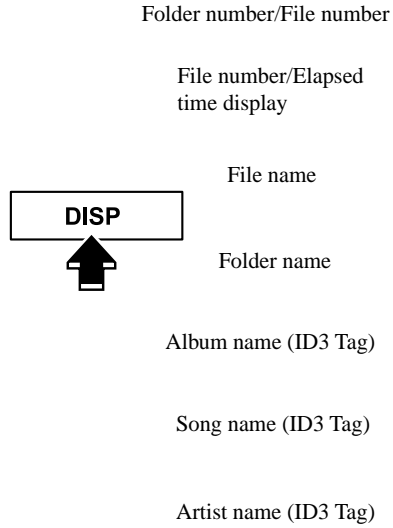
For files with a file name or other name that have been input, the display changes in the order of the file names or other names each time the display button (**DISP**) is pressed during playback.

Music CD



*Depending on the CD, this information may not be available.

MP3/WMA CD



NOTE

(MP3/WMA 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

Only 8 characters (File name) or 12 characters (Except file name) can be displayed at one time. To display the rest of the characters of a long title, press the text button (**TEXT**). The display scrolls the next 12 characters. Press the text button (**TEXT**) again after the last 12 characters have been displayed to return to the beginning of the title.

NOTE

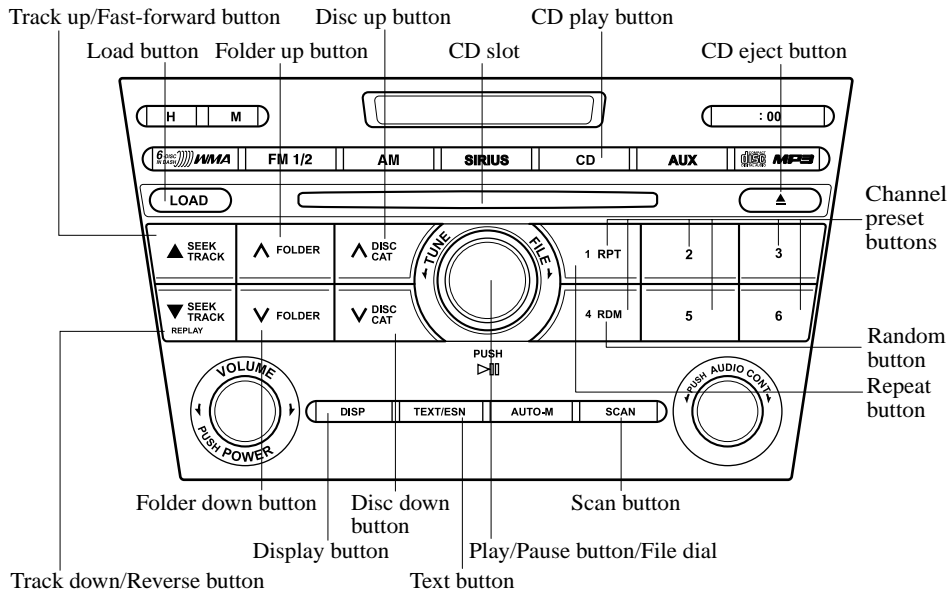
The displayable number of characters is limited. If the number of characters, including the file extension (.mp3/.wma), exceeds 32 characters, it may not be fully displayed.

Message display

If “CHECK CD” is displayed, it means that there is some CD malfunction. Check the CD for damage, dirt, or smudges, and then properly reinsert. If the message appears again, take the unit to an Authorized Mazda Dealer for service.

Audio System

▼ Operating the In-Dash CD Changer



Type	Playable data
Music/MP3/WMA CD player	<ul style="list-style-type: none"> Music data (CD-DA) MP3/WMA file

NOTE

If a disc has both music data (CD-DA) and MP3/WMA files, playback of the two or three 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.

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. There will be a short lapse before play begins while the player reads the digital signals on the CD.

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.

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.
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.

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.

Playback

Press the CD play button (CD) to start play when a CD is in the unit. If a CD is not in the unit when the CD play button (CD) is pressed, “NO DISC” will flash on and off.

Audio System

Pause

To stop playback, press the Play/Pause button (▶||).

Press the button again to resume playback.

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 (▲) or turn the file dial clockwise once to skip forward to the beginning of the next track.

Press the track down button (▼) or turn the file dial counterclockwise once to skip back to the beginning of the current track.

Disc search

To change the disc, press the DISC button (Λ or ∨) during playback.

Folder search (during MP3/WMA CD playback)

To change to the previous folder, press the folder down button (∨), or press the folder up button (Λ) 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 playback to start the scan play operation (the track number will flash).

Press the scan button (**SCAN**) again to cancel scan playback.

NOTE

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

Repeat playback

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 playback.

During MP3/WMA CD playback

(Track repeat)

1. Press the repeat button (**RPT**) during playback to play the current track repeatedly. "TRACK RPT" is displayed.
2. To cancel the repeat playback, 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. "FOLDER RPT" is displayed.
2. Press the button again to cancel the repeat playback.

Random playback

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 playback.

During MP3/WMA CD playback

(Folder random)

1. Press the random button (**RDM**) during playback to play the tracks in the folder randomly. "FOLDER RDM" is displayed.
2. To cancel the random playback, press the button again after 3 seconds.

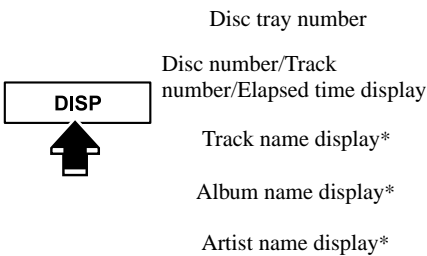
(CD random)

1. Press the random button (**RDM**) during playback, and then press the button again within 3 seconds to play the tracks on the CD randomly. "DISC RDM" is displayed.
2. Press the button again to cancel the random playback.

Switching the display

For files with a file name or other name that have been input, the display changes in the order of the file names or other names each time the display button (**DISP**) is pressed during playback.

Music CD



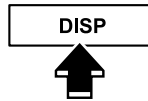
*Depending on the CD, this information may not be available.

MP3/WMA CD

Disc number/Folder number/File number

Disc tray number

Disc number/File number/Elapsed time display



File name

Folder name

Album name (ID3 Tag)

Song name (ID3 Tag)

Artist name (ID3 Tag)

NOTE
(MP3/WMA 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

Only 8 characters (File name) or 12 characters (Except file name) can be displayed at one time. To display the rest of the characters of a long title, press the text button (**TEXT**). The display scrolls the next 12 characters. Press the text button (**TEXT**) again after the last 12 characters have been displayed to return to the beginning of the title.

Audio System

NOTE

The displayable number of characters is limited. If the number of characters, including the file extension (.mp3/.wma), 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 the CD for damage, dirt, or smudges, and then properly reinsert. If the message appears again, take the unit to an Authorized Mazda Dealer for service.

▼ Operating the Auxiliary jack

You can connect portable audio units or similar products on the market to the auxiliary jack to listen to music or audio over the vehicle's speakers, refer to Auxiliary Input (page 6-59).

▼ **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
ACQUIRING	Depending on the surrounding conditions (such as large trees, buildings, or tunnels) and special weather conditions, SIRIUS radio reception may be diminished or temporarily interrupted.	Improve reception by moving away from possible obstructions. If the error indication continues to display, consult an Authorized Mazda Dealer.
ANTENNA FAIL	Satellite radio antenna malfunction	Check the satellite radio antenna, antenna cable and DLP antenna connector. If the error indication continues to display, consult an Authorized Mazda Dealer.
CHECK CD	CD is inserted upside down	Insert the CD properly. If the error indication continues to display, consult an Authorized Mazda Dealer.
	CD is defective	Insert another CD properly. If the error indication continues to display, consult an Authorized Mazda Dealer.

NOTE

If a broken DLP unit is replaced with a new unit, cancel the license for the broken unit and make sure to carry out new registration for the replaced unit. If the license for the broken unit is not canceled, you will be charged a reception fee for both units.*

* DLP: Down Link Processor (SATELLITE RADIO Module)

Audio System

Audio Control Switch Operation

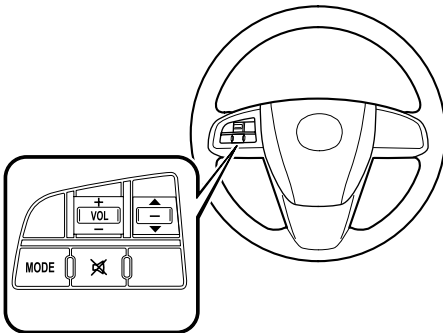
When the audio unit is turned on, operation of the audio unit from the steering wheel is possible.

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 the CD being played is ejected and the audio unit is turned off.

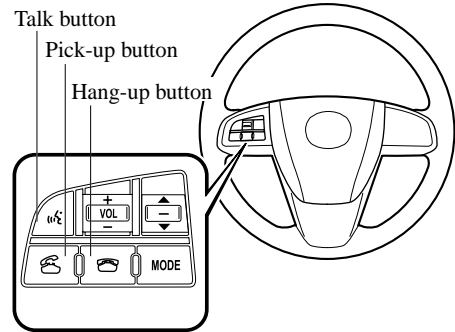
Without Bluetooth Hands-Free and 7-inch navigation system



With Bluetooth Hands-Free only/ Bluetooth Hands-Free and 7-inch navigation system

Use the talk button, pick-up button, and hang-up button for navigation system sound operation.

For details, refer to the separate manual "NAVIGATION SYSTEM Owner's Manual".



NOTE

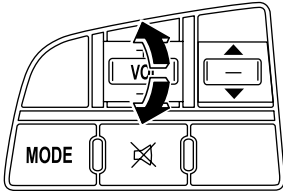
- The talk button, pick-up button, and hang-up button are operable with the audio unit turned off.
- Mazda has installed this system to prevent distraction while driving the vehicle and using audio controls on the dashboard. Always make safe driving your first priority.

▼ Adjusting the Volume

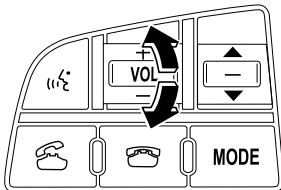
To increase the volume, pull up the volume switch.

To decrease the volume, press down the volume switch.

Without Bluetooth Hands-Free and 7-inch navigation system



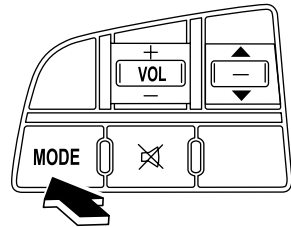
**With Bluetooth Hands-Free only/
Bluetooth Hands-Free and 7-inch
navigation system**



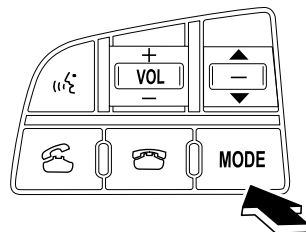
▼ Changing the Source

Press the mode switch (**MODE**) to change the audio source (FM1 radio → FM2 radio → AM radio → CD player or CD changer → SIRIUS1 → SIRIUS2 → SIRIUS3 → AUX → BT audio → cyclical).

Without Bluetooth Hands-Free and 7-inch navigation system



**With Bluetooth Hands-Free only/
Bluetooth Hands-Free and 7-inch
navigation system**



Audio System

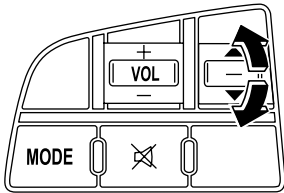
NOTE

CD, CD changer, SIRIUS digital satellite radio, and BT audio modes cannot be selected in the following cases:

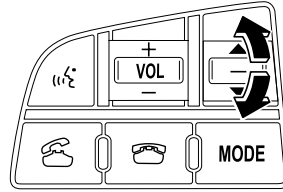
- SIRIUS digital satellite radio unit, or BT audio unit is not equipped on the audio system.
- CD has not been inserted.
- With the SIRIUS digital satellite radio, the mode which was selected last is displayed. The AUX mode is locked out unless you connect a commercially available portable audio unit to the auxiliary jack. Connect a portable audio unit or similar product on the market to the auxiliary jack to listen to music or audio over the vehicle's speakers. Change the audio source to AUX mode (page 6-59).

▼ Seek Switch

Without Bluetooth Hands-Free and 7-inch navigation system



With Bluetooth Hands-Free only/ Bluetooth Hands-Free and 7-inch navigation system



When listening to the radio or SIRIUS digital satellite 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 or BT audio

Pull up the seek switch to skip to the next track.

Press down the seek switch to repeat the current track.

Pull up or press down and hold the seek switch to continuously switch the tracks up or down.

▼ Mute Switch *

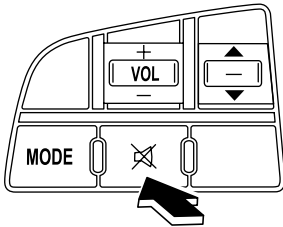
Press the mute switch (⊗) once to mute audio, press it again to resume audio output.

NOTE

If the ignition switch is turned to the LOCK position with the audio muted, the mute will be canceled.

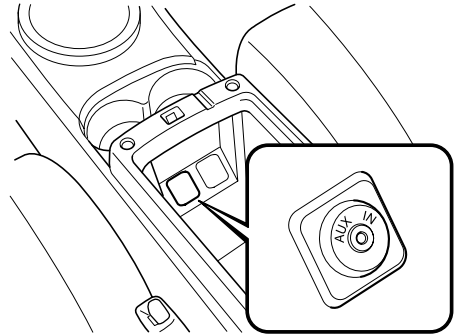
Therefore, when the engine is restarted, the audio is not muted. To mute the audio again, press the mute switch (⊗).

Without Bluetooth Hands-Free and 7-inch navigation system



AUX Mode (Auxiliary input)

You can connect portable audio units or similar products on the market to the auxiliary jack to listen to music or audio over the vehicle's speakers.



! WARNING

Do not adjust the portable audio unit or a similar product while driving the vehicle:

Adjusting the portable audio unit or a similar product 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 portable audio unit or a similar product while the vehicle is stopped.

! CAUTION

- *Close the lid when the auxiliary jack is not in use to prevent foreign objects and liquids from penetrating the auxiliary jack.*
- *Noise may occur during playback if the accessory socket equipped on the vehicle is used. (If noise occurs, do not use the accessory socket.)*

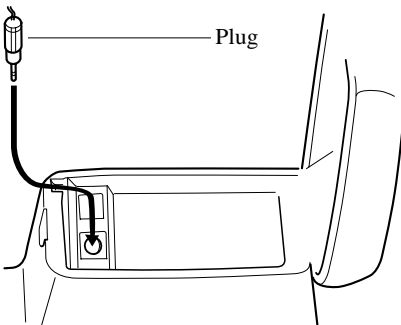
Audio System

NOTE

- Before using the auxiliary jack, read the manufacturer's instructions for the product being connected.
- Use a commercially-available, non-impedance (3.5 Φ) stereo mini plug for connecting the portable audio unit to the auxiliary jack. Before using the auxiliary jack, read the manufacture's instructions for connecting a portable audio unit to the auxiliary jack.
- To prevent discharging of the battery, do not use the auxiliary input for long periods with the engine off or idling.
- Noise may occur depending on the product connected to the auxiliary jack.
- With regard to connecting a portable audio or similar device to a power source, use the battery for the device, not the accessory socket.

Connecting the auxiliary jack

1. Open the console lid.
2. Pass the connection plug cord through the cutout of the console and insert the plug into the auxiliary jack.



⚠ WARNING

Do not allow the connection plug cord to get tangled with the parking brake or the shift lever:

Allowing the plug cord to become tangled with the parking brake or the shift lever is dangerous as it could interfere with driving, resulting in an accident.

⚠ CAUTION

Do not place objects or apply force to the auxiliary jack with the plug connected.

NOTE

- Insert the plug to the auxiliary jack securely.
- Insert or remove the plug with the plug perpendicular to the auxiliary jack hole.
- Insert or remove the plug by holding its base.

To listen to a portable audio unit

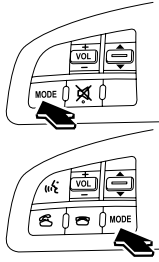
1. Turn the ignition switch to the ACC or ON position.
2. Press the power/volume dial to turn the audio system on.

3. Press the AUX button (AUX) of the audio unit or the mode switch (MODE) of the audio control switches on the steering wheel to change to the AUX mode.

Audio Unit



Audio Control Switches



NOTE

- Set the volume of the portable audio unit to the maximum within the range that the sound does not become distorted, then adjust the volume using the power/volume dial of the audio unit or the up/down switch of the audio control switch.
- Use your portable audio unit for operations other than volume adjustment.
- If the connection plug is pulled out from the auxiliary jack while in AUX mode, noise may occur.

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.

Bluetooth Audio ***▼ What is Bluetooth Audio?****Bluetooth audio outline**

By programming portable audio devices equipped with the Bluetooth communication function to the vehicle's Bluetooth unit, you can listen to music or audio recorded on these audio devices from the vehicle's speakers. Bluetooth audio devices are not those you do not need to plug into the auxiliary jack.

After programming, operate the audio system's control panel to play/stop the music or audio.

⚠ CAUTION

- *Always program audio devices to the Bluetooth audio system while the vehicle is stopped.*
- *Because only specified Bluetooth audio devices can be used, consult an Authorized Mazda Dealer when purchasing or changing devices. Bluetooth audio devices which correspond to specified Bluetooth versions and profiles can be Bluetooth-connected to the vehicle's Bluetooth unit, however, even among these devices are ones which cannot be Bluetooth-connected or have limited functionality. Each device to be used with the vehicle's Bluetooth unit needs to be checked individually for compatibility. Consult an Authorized Mazda Dealer concerning device compatibility.
Phone: 800-430-0153
Web: www.MazdaUSA.com/bluetooth*

Applicable Bluetooth specification

Ver. 2.0 or higher

Audio profile

- A2DP (Advanced Audio Distribution Profile) Ver. 1.0
- AVRCP (Audio/Video Remote Control Profile) Ver. 1.0

A2DP is a profile which transmits only audio to the Bluetooth unit. If your Bluetooth audio device corresponds only to A2DP, but not AVRCP, you cannot operate it using the control panel of the vehicle's audio system. In this case, the Bluetooth audio device can be operated by controlling the device itself, the same as when a portable audio system without the Bluetooth communication function is connected to the AUX terminal.

Function	A2DP	A2DP-AVRCP
Playback	No	Yes
Pause	No	Yes
File (Track) up/down	No	Yes

Yes: Available

No: Not available



Bluetooth is the registered trademark of Bluetooth SIG. Inc.

Bluetooth Audio

NOTE

- It may not be possible to play a Bluetooth audio device if it is placed anywhere transmission is compromised, such as inside a metal container or the trunk. Move the Bluetooth audio device to a location where transmission is possible.
- Battery consumption of Bluetooth audio devices is higher while Bluetooth-connected.
- If a non-Bluetooth device is to be used, a commercially-available Bluetooth adapter is required. When playing an audio device with a Bluetooth adapter installed, programming of the audio device may not be possible or audio may not be heard from the vehicle speakers if the connection of the adapter and the device is poor. If this happens, check if the Bluetooth adapter is properly connected.

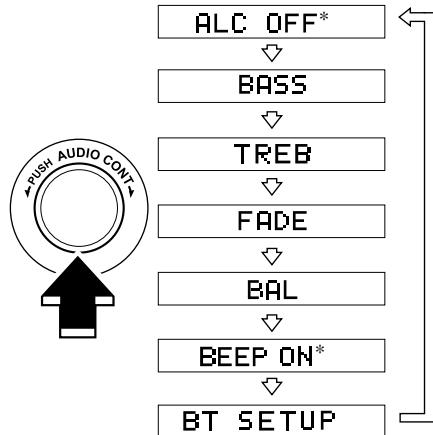
▼ Bluetooth Audio Preparation

Bluetooth audio device set-up

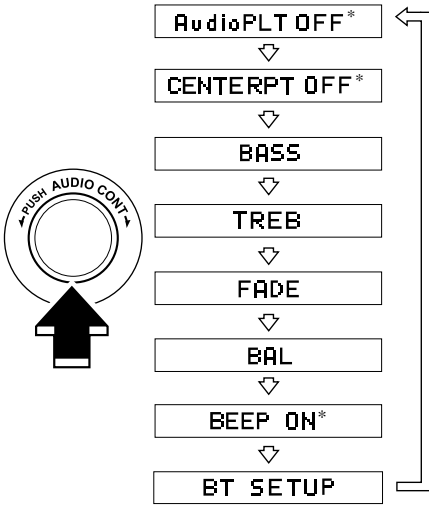
Bluetooth audio programming, changes, deletions, and display of programmed device information can be performed.

1. The mode changes as follows each time the audio control dial is pressed. Select "BT SETUP".

Standard audio-equipped model

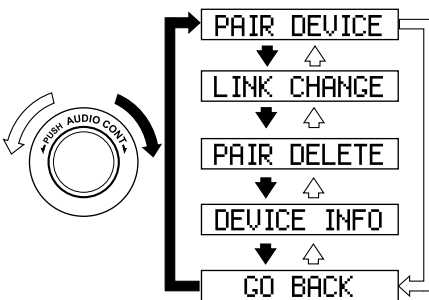


Bose® Sound System-equipped model



* Depending on the mode selected, the indication changes.

2. Turn the audio control dial and select a desired mode.



Display	Mode	Function
PAIR DEVICE	Pairing program mode	Bluetooth audio device programming
LINK CHANGE	Link change mode	Changing link to Bluetooth audio device
PAIR DELETE	Pairing deletion mode	Deleting link to Bluetooth audio device
DEVICE INFO	Device information display mode	Displaying vehicle's Bluetooth unit information

3. Press the audio control dial to determine the mode.

Bluetooth audio device programming

Any Bluetooth audio device must be programmed to the vehicle's Bluetooth unit before it can be listened to over the vehicle's speakers.

A maximum of seven devices including Bluetooth audio devices and hands-free mobile phones can be programmed to one vehicle.

Bluetooth Audio

NOTE

- Always perform Bluetooth audio device programming while the vehicle is stopped.
- If a Bluetooth device has already been programmed to the vehicle as a hands-free mobile phone, it does not need to be programmed again when using the device as a Bluetooth audio device. Conversely, it does not need to be programmed again as a hands-free mobile phone if it has already been programmed as a Bluetooth audio device.
- Look around to be sure other likely Bluetooth audio devices are not in range when you start to program. If in doubt, move your car to another location. The transmission range of a Bluetooth audio device is about 10 m (32 ft). Therefore, if there is another Bluetooth audio device within a 10 m (32 ft) radius of the vehicle, the device may be identified and programmed instead.
- Device registration can also be done using voice recognition (page 6-76).

Concerning the operation of a Bluetooth audio device itself, refer to its instruction manual.

Some Bluetooth audio devices have PIN codes (four digits). Refer to the audio device's instruction manual because the programming procedure differs depending on whether it has a PIN code or not.

Programming a Bluetooth audio device which has a PIN code (4 digits)

1. Using the audio control dial, select the pairing program mode “PAIR DEVICE” in the “BT SETUP” mode. (Refer to “Bluetooth audio device set-up” for details.)
2. Press the audio control dial to determine the mode. After “ENTER PIN” is displayed on the information display for two seconds, “PIN 0000” is displayed and the PIN code can be input.
3. Input the PIN code of your Bluetooth audio device by pressing channel preset buttons 1 to 4 while “PIN 0000” is displayed. Press channel preset button 1 to input the first digit, 2 for the second, 3 for the third, and 4 for the fourth. For example, if the PIN code were “4213”, press channel preset button 1 four times (1, 2, 3, 4), button 2 twice (1, 2), button 3 once (1), and button 4 three times (1, 2, 3). If the “PIN 0000” display disappears before finishing the PIN code input, repeat the procedure from Step 1.

NOTE

Some devices accept only a particular pairing code (Usually, “0000” or “1234”).

If pairing cannot be completed, refer to the owner's manual of your mobile device, and try those numbers if necessary.

4. Press the audio control dial while the input PIN code is displayed. “PAIRING” flashes on the display.
5. Operate the Bluetooth audio device and set it to the program mode while “PAIRING” is flashing.
6. When the programming is completed, “♪” and “PAIR SUCCESS” are displayed after about 10-30 seconds, after which “PAIR SUCCESS” continues to be displayed for three seconds, and then the unit returns to the normal display.

NOTE

- Some Bluetooth audio devices need a certain amount of time before the “🎵” symbol is displayed.
- If the programming failed, “Err” flashes for three seconds.
- Programming cannot be performed while the vehicle is moving. If you attempt to perform programming while the vehicle is moving, “PAIR DISABLE” is displayed.
- If seven Bluetooth audio devices have already been programmed to the vehicle, programming cannot be performed and “MEMORY FULL” is displayed. Delete one programmed device to program another one.

Programming a Bluetooth audio device which does not have a PIN code (4 digits)

1. Using the audio control dial, select the pairing program mode “PAIR DEVICE” in the “BT SETUP” mode. (Refer to “Bluetooth audio set up” for details.)
2. Press the audio control dial to determine the mode.
After “ENTER PIN” is displayed on the information display for two seconds, “PIN 0000” is displayed and the PIN code can be input.
3. Press the audio control dial while “PIN 0000” is displayed.
“PAIRING” flashes on the display.
4. Operate the Bluetooth audio device and set it to the program mode while “PAIRING” is flashing.
5. As the Bluetooth audio device requires a PIN code, input “0000”.

6. When the programming is completed, “🎵” and “PAIR SUCCESS” are displayed after about 10-30 seconds, after which “PAIR SUCCESS” continues to be displayed for three seconds, and then the unit returns to the normal display.

NOTE

- If pairing cannot be completed, try “1234” instead. Refer to the owner's manual of your mobile device for the right PIN code.
- Some Bluetooth audio devices need a certain amount of time before the “🎵” symbol is displayed.
- If the programming failed, “Err” flashes for three seconds.
- Programming cannot be performed while the vehicle is moving. If you attempt to perform programming while the vehicle is moving, “PAIR DISABLE” is displayed.
- If seven Bluetooth audio devices have already been programmed to the vehicle, programming cannot be performed and “MEMORY FULL” is displayed. Delete one programmed device to program another one.

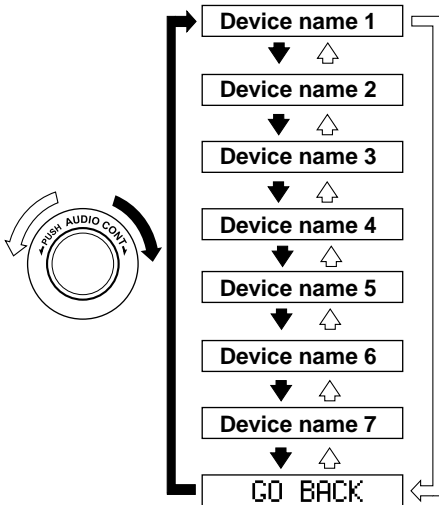
Changing the link to a Bluetooth audio device

If several devices have been programmed, the Bluetooth unit links the device last programmed. If you would like to link a different programmed device, it is necessary to change the link. The order of device priority after the link has been changed is maintained even when the ignition switch is turned off.

1. Using the audio control dial, select the link change mode “LINK CHANGE” in the “BT SETUP” mode. (Refer to “Bluetooth audio device set-up” for details.)

Bluetooth Audio

2. Press the audio control dial to determine the mode.
3. The name of the currently linked Bluetooth audio device is displayed. If no Bluetooth audio device is currently linked, the name of the first device among the programmed devices is displayed.
4. Turn the audio control dial to select the name of the device you would like to link.



5. Press the audio control dial to select the device you would like to link. The “🎵” symbol disappears, and “PAIRING” flashes in the display.

NOTE

When “GO BACK” is selected and the audio control dial is pressed, the display returns to “LINK CHANGE”.

6. If the link to the desired device is successful, the “🎵” symbol is displayed again, together with “LINK CHANGED”. “LINK CHANGED” is displayed for three seconds, then it returns to the normal display.

NOTE

- Some Bluetooth audio devices need a certain amount of time before the “🎵” symbol is displayed.
- If a hands-free type mobile phone has been the most recently programmed device, the Bluetooth unit links this device. If you would like to use a Bluetooth audio type device which has been previously programmed to the Bluetooth unit, the link must be changed to this device.
- If an error occurs while trying to link a device, “Err” flashes in the display for three seconds, and the display returns to “LINK CHANGE”. If this occurs, check the programming status of the Bluetooth audio device and the location of the device in the vehicle (not in the trunk or a metal-type box), and then try the link operation again.
- Device selection can also be done using voice recognition (page 6-88).

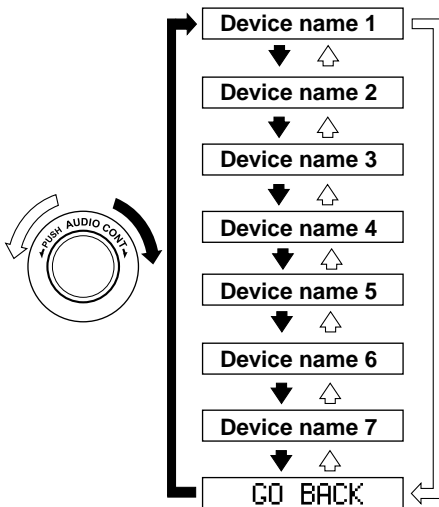
How to confirm the device currently linked

Switch to the link-change mode. (Refer to “Changing the link to a Bluetooth audio device”)

The device name displayed first is the device which is currently linked.

Deleting the link to a Bluetooth audio device

1. Using the audio control dial, select the pairing delete mode “PAIR DELETE” in the “BT SETUP” mode. (Refer to “Bluetooth audio device set-up” for details.)
2. Press the audio control dial to determine the mode.
3. The name of the first device among the programmed devices is displayed.
4. Rotate the audio control dial and select the name of the programmed device you would like to delete.

***NOTE***

Only the names of programmed devices can be displayed. If only one device is programmed, only the name for this device is displayed.

5. If a selection other than “GO BACK” is made and the audio control dial is pressed, “SURE ? NO” is displayed.
6. Rotate the audio control dial clockwise and switch the display to “SURE ? YES”.

NOTE

The display changes as follows depending on whether the audio control dial is rotated clockwise or counterclockwise.

- Clockwise: “SURE ? YES” displayed
- Counterclockwise: “SURE ? NO” displayed

7. Press the audio control dial to delete the selected device.

NOTE

Select “GO BACK” and press the audio control dial to return to the “PAIR DELETE” display.

8. “PAIR DELETED” is displayed for three seconds after the deletion is completed, and then it returns to the normal display.

NOTE

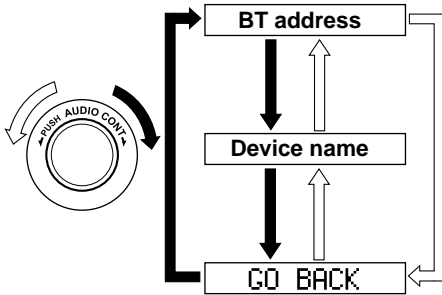
If an error occurs while trying to delete the programmed device, “Err” flashes in the display for three seconds and the display returns to “LINK DELETE”.

Bluetooth audio device information display

1. Using the audio control dial, select the pair device information display mode “DEVICE INFO” in the “BT SETUP” mode. (Refer to “Bluetooth audio device set-up” for details.)
2. Press the audio control dial to determine the mode.

Bluetooth Audio

3. The name of the Bluetooth unit device is displayed.
4. Rotate the audio control dial to select the information for the Bluetooth unit which you would like to view.



NOTE

When "GO BACK" is selected and the audio control dial is pressed, the display returns to "DEVICE INFO".

▼ How to Use the Bluetooth Audio System

Switching to Bluetooth audio mode

To listen to music or voice audio recorded to a Bluetooth audio device, switch to the Bluetooth audio mode to operate the audio device using the audio system control panel.

Any Bluetooth audio device must be programmed to the vehicle's Bluetooth unit before it can be used. (Refer to "Bluetooth audio device programming")

1. Turn the ignition switch to the ACC or ON position.

2. Turn on the Bluetooth audio device's power.
Make sure that the "🎵" symbol is displayed in the information display. The symbol is not displayed if an unprogrammed Bluetooth audio device is being used or the vehicle's Bluetooth unit has a malfunction.

NOTE

Some Bluetooth audio devices need a certain amount of time before the "🎵" symbol is displayed.

3. Press the AUX button to switch the Bluetooth audio mode to "BT Audio".
4. The audio recorded to the Bluetooth audio device begins playback.

NOTE

- If the Bluetooth audio device does not begin playback, press the Play/Pause button (▶||).
- If the mode is switched from Bluetooth audio mode to another mode (radio mode), audio playback from the Bluetooth audio device stops.
- If a call is received on a hands-free mobile phone during playback from the Bluetooth audio device, the playback is stopped. Playback from the Bluetooth audio device resumes after the call ends.

Playback

1. To listen to a Bluetooth audio device over the vehicle's speaker system, switch the mode to Bluetooth audio mode. (Refer to "Switching to Bluetooth audio mode")
2. To stop playback, press the Play/Pause button (▶||).
3. Press the button again to resume playback.

Selecting a file (track)

Short-press the track down button (▼) or turn the file dial counterclockwise: Selects the beginning of the current file (track).

Short-press the track up button (▲) or turn the file dial clockwise: Selects the next file (track).

Bluetooth Hands-Free

Bluetooth Hands-Free *

▼ What is Bluetooth Hands-Free?

Bluetooth Hands-Free Outline

By connecting a Bluetooth equipped device (Mobile phone) to the hands-free unit equipped on the vehicle, making and receiving calls are possible using the talk button, pick-up button and hang-up button located on the steering wheel, and saying the voice commands.

! WARNING

Perform phonebook registration related operations while the vehicle is parked:

Performing phonebook registration while driving the vehicle could be a distraction to your driving and result in an accident. In addition, a mistake in performing the phonebook operation could result in the loss of important data.

Bluetooth equipped device (Mobile phone)

A Bluetooth equipped device (Mobile phone) communicates with the hands-free unit equipped on the vehicle using radio transmission (Bluetooth).

For example, if the device (Mobile phone) is placed in a coat pocket, the phone calls can be made through your mobile service without taking out and handling the device (Mobile phone).

! CAUTION

*The types of devices (Mobile phone) which can be connected to the hands-free unit are limited, so before purchasing or changing your device (Mobile phone) model, consult Mazda Bluetooth Hands-Free Customer Service or visit www.MazdaUSA.com/bluetooth for a complete list of compatible phones. Devices (Mobile phone) which can be connected to the hands-free system need to be compliant with Bluetooth specifications and the appropriate profile, however, even among these Bluetooth devices (Mobile phone) are some which will not connect with your Mazda or will have limited function. Therefore, consult Mazda Bluetooth Hands-Free Customer Service for information regarding device (Mobile phone) compatibility:
Phone: 800-430-0153
Web: www.MazdaUSA.com/bluetooth*

Applicable Bluetooth specification

Ver. 2.0 or higher

Response profile

- HFP (Hands Free Profile) Ver. 1.5
- DUN (Dial-up Networking Profile) Ver. 1.1
- PBAP (Phone Book Access Profile) Ver. 1.0
- A2DP (Advanced Audio Distribution Profile) Ver. 1.0
- AVRCP (Audio/Video Remote Control Profile) Ver. 1.0

Bluetooth Hands-Free

- OPP (Object Push Profile) Ver. 1.1



Bluetooth is the registered trademark of Bluetooth SIG. Inc.

NOTE

- The Bluetooth Hands-Free system is operable several seconds after turning the ignition switch to the ACC or ON position (requires less than 15 seconds).
- If the ignition switch is turned off during a hands-free call, the line is transferred to the device (Mobile phone) automatically.
- If the device (Mobile phone) is in a location where radio reception is difficult such as a metal container or in the trunk, the call may not be connected using Bluetooth. If communication is not possible, change the location of the device (Mobile phone).

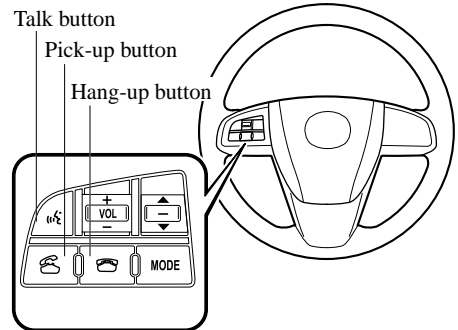
▼ Component Parts

Bluetooth Hands-Free consists of the following items:

- Talk button
- Pick-up button
- Hang-up button
- Information display
- Microphone
- Audio unit/7-inch Navigation system

Talk button, Pick-Up button and Hang-Up button

Basic functions of Bluetooth Hands-Free can be used for such things as making calls or hanging up using the talk button, pick-up button and hang-up button on the steering wheel.



Talk button operations

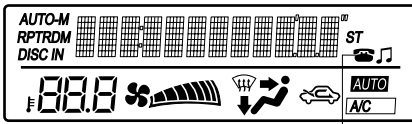
A short press or a long press of the talk button is used to operate the system as follows:

- Short press (Press the button less than 0.7 sec.)
- Long press (Press the button 0.7 sec. or more.)

Bluetooth Hands-Free

Information display

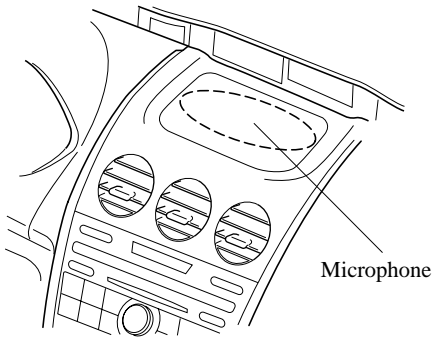
When available, the information display shows telephone numbers, Bluetooth Hands-Free messages, and operation status.



Bluetooth phone connected

Microphone

The microphone is used for speaking voice commands or exchanging conversation.



Audio unit/7-inch Navigation system

The audio unit or 7-inch navigation system is used for adjusting the volume.

▼ Voice

To prevent the deterioration in voice recognition rate and voice quality, the following points must be observed:

- It is not necessary to face the microphone or approach it. Speak the voice commands while maintaining a safe driving position.
- Close the windows and/or the moonroof to reduce loud noises from outside the vehicle, or turn down the airflow of the climate control system while Bluetooth Hands-Free is being used. Voice recognition may not function correctly or voice quality may deteriorate under the following conditions.
 - A passenger is speaking.
 - Driving with the window and/or the moonroof open.
 - Driving on bumpy roads.
 - Noise outside of the vehicle is loud. (Construction sites, inside tunnels, excess oncoming traffic, or heavy rain.)
 - Operation noise from turn signals, wipers, or the horn is heard.
 - A/C airflow is strong or wind is blowing on the microphone.
 - There is noise coming from cargo loaded in the vehicle.
- Voice commands may not be recognized depending on the voice. If the voice commands are not recognized correctly, repeat the commands in a louder voice, at a natural pace, as if speaking to another person.
- Dialects or different wording other than hands-free prompts cannot be recognized by voice recognition. Speak in the wording specified by the voice commands.

NOTE

If the voice recognition performance is not satisfactory, refer to “Voice Recognition Learning Function (Speaker Enrollment)” (page 6-93).

Please be aware that the voice recognition may error despite following the above points.

▼ **Function Restrictions While Using Bluetooth Hands-Free**

Some functions are limited while Bluetooth Hands-Free is being used. They include:

- Beep sound and voice guidance related to the audio unit and 7-inch navigation system are not heard.
- Beep sound related to the A/C operation is not heard.
- The 7-inch navigation system's voice recognition command does not function.

▼ **How to Use This Section**

Descriptions in the text are as follows:

Say: Voice commands to be spoken by you.

Prompt: Voice guidance output from the speaker.

NOTE

Say voice commands after the beep sound [Beep] is heard.

Example)

Say: [Beep] “Dial”

Prompt: “Number, please”

Say: [Beep] “XXXXXXXXXXXXX (Ex. “555-1234”) (Telephone number)”

NOTE

To cancel a particular voice guidance in midstream and have the system perform a different operation, press the talk button and say the applicable voice command while the voice guidance is playing.

Bluetooth Hands-Free Activation

Method

Press the pick-up button (with/without 7-inch navigation system) or talk button with a short press (without 7-inch navigation system) or a long press (with 7-inch navigation system).

NOTE

For vehicles with the 7-inch navigation system, you can also press the talk button with a short press and say: [Beep] “Telephone” or “Phone”.

The hands-free system is activated. Functions of the hands-free telephone, such as making and receiving calls, can be used after the activation. (For details on the telephone functions, refer to “Basic Bluetooth Hands-Free Operation” or “Convenient Use of the Hands-Free System”.)

NOTE

For vehicles with a 7-inch navigation system, the system operates by speaking the voice recognition command of the 7-inch navigation system after pressing the talk button with a short press. For voice recognition details with the 7-inch navigation system, refer to the separate “NAVIGATION SYSTEM Owner's Manual”.

Bluetooth Hands-Free

Tutorial

The tutorial explains how to use Bluetooth Hands-Free.

To activate the tutorial, do the following:

1. Press the pick-up button (with/without 7-inch navigation system) or talk button with a short press (without 7-inch navigation system) or a long press (with 7-inch navigation system).

NOTE

For vehicles with the 7-inch navigation system, you can also press the talk button with a short press and say: [Beep] “Telephone” or “Phone”.

2. **Say:** [Beep] “Tutorial”
3. Follow the prompts to receive the appropriate voice guidance instructions.

Cancel

The Bluetooth Hands-Free system transitions to idling status if the following operation is performed while the system is activating.

Press the hang-up button, or the talk button with a long press.

Basic Bluetooth Hands-Free Operation

▼ Bluetooth Hands-Free Preparation

Language setting

The available languages are English, Spanish, and Canadian French. If the language setting is changed, all of the voice guidance and voice input commands are done in the selected language.

NOTE

- *If the language setting is changed, device registration is maintained. Phonebook records are not cleared, but each language has a separate phonebook. Therefore, entries created in one language will need to be re-entered in the phonebook of the new language.*
- *Do these steps before you start driving. These less used functions are too distracting to undertake while driving until you are fully familiar with the system.*

Method 1

1. Press the pick-up button (with/without 7-inch navigation system) or talk button with a short press (without 7-inch navigation system) or a long press (with 7-inch navigation system).

NOTE

For vehicles with the 7-inch navigation system, you can also press the talk button with a short press and say: [Beep] “Telephone” or “Phone”.

2. **Say:** [Beep] “Setup”
3. **Prompt:** “Select one of the following: Pairing options, confirmation prompts, language, passcode, select phone or select music player.”

4. **Say:** [Beep] “Language”
5. **Prompt:** “Select a language: English, French, or Spanish.”
6. **Say:** [Beep] “French” (Speak the desired language: “English”, “French” or “Spanish”)

NOTE

Other language settings can also be made while in the current setting by saying the name of the language in the native pronunciation.

7. **Prompt:** “French (Desired language) selected. Is this correct?”
8. **Say:** [Beep] “Yes”
9. **Prompt:** “French (Desired language) selected, returning to main menu” (Spoken in the newly selected language).

Method 2

1. Press the pick-up button (with/without 7-inch navigation system) or talk button with a short press (without 7-inch navigation system) or a long press (with 7-inch navigation system).

NOTE

For vehicles with the 7-inch navigation system, you can also press the talk button with a short press and say: [Beep] “Telephone” or “Phone”.

2. **Say:** [Beep] “French” (Say the desired language: “English”, “French”, or “Spanish”.) (Change the desired language by saying the language name.)

NOTE

Other language settings can also be made while in the current setting by saying the name of the language in the native pronunciation.

3. **Prompt:** “Would you like to change the language to French (Desired language)?”
4. **Say:** [Beep] “Yes”
5. **Prompt:** “Please wait. Switching to French phonebook. French selected, returning to main menu” (Spoken in the newly selected language).

Device programming (Pairing)

To use Bluetooth Hands-Free, the device equipped with Bluetooth has to be programmed to the hands-free unit using the following procedure.

A maximum of seven devices including hands-free mobile phones and Bluetooth audio devices can be programmed to one vehicle.

NOTE

- *A device can be programmed only when the vehicle is parked. If the vehicle starts to move, the pairing procedure will end. Programming is dangerous while driving - pair up your device before you start driving. Park the car in a safe place before programming.*
- *If a Bluetooth device has already been programmed to the vehicle as a Bluetooth audio device, it does not need to be programmed again when using the device as a hands-free mobile phone. Conversely, it does not need to be programmed again as a Bluetooth audio device if it has already been programmed as a hands-free mobile phone.*
- *Since the communication range of a Bluetooth equipped device is about 10 meters (32 ft), if a device is placed within a 10-meter (32 ft) radius of the vehicle, it may be detected/programmed unintentionally while another device is being programmed.*

Bluetooth Hands-Free

1. Activate the Bluetooth application of the device.

NOTE

For the operation of the device, refer to its instruction manual.

2. Press the pick-up button (with/without 7-inch navigation system) or talk button with a short press (without 7-inch navigation system) or a long press (with 7-inch navigation system).

NOTE

For vehicles with the 7-inch navigation system, you can also press the talk button with a short press and say: [Beep] "Telephone" or "Phone".

3. **Say:** [Beep] "Setup"
4. **Prompt:** "Select one of the following: Pairing options, confirmation prompts, language, passcode, select phone or select music player."
5. **Say:** [Beep] "Pairing options"
6. **Prompt:** "Select one of the following: Pair, edit, delete, or list."
7. **Say:** [Beep] "Pair"
8. **Prompt:** "Please say a 4-digit pairing code."
9. **Say:** [Beep] "XXXX" (Speak an arbitrary 4-digit pairing code. This can be any combination of 4 numbers.)

NOTE

- Some devices accept only a particular pairing code (Usually, "0000" or "1234"). If pairing cannot be completed, refer to the owner's manual of your mobile device, and try those numbers if necessary.
- Record the code as it will be used to program your device in Step 16.

10. **Prompt:** "Pairing code XXXX (4-digit number). Is this correct?"
11. **Say:** [Beep] "Yes" or "No"
12. If "Yes", go to Step 13.
If "No", the procedure returns to Step 8.
13. **Prompt:** "Start pairing procedure on the device. See the device manual for instructions."
14. Using the device, perform a search for the Bluetooth device (Peripheral device).

NOTE

For the operation of the device, refer to its instruction manual.

15. Select "Mazda" from the device list searched by the device.
16. Input the 4-digit pairing code set in Step 9 to the device.
17. **Prompt:** "Please say the name of the device after the beep."
18. **Say:** [Beep] "XXXX - - -" (Speak a "device tag", an arbitrary name for the device.)
Example: "Stan's device."

NOTE

Speak a programmed "device tag" within 10 seconds.

If more than two devices are to be programmed, they cannot be programmed with the same or similar "device tag".

19. **Prompt:** "Adding XXXXXX - - - (Ex. "Stan's device") (Device tag). Is this correct?"
20. **Say:** [Beep] "Yes"
21. **Prompt:** "Pairing complete"

After a device is registered, the system automatically identifies the device. By activating Bluetooth Hands-Free again, or by activating Bluetooth Hands-Free first after turning the ignition switch from the LOCK to the ACC position, the system reads out a voice guidance, “XXXXXX - - (Ex. “Stan’s device”) (Device tag) is connected”.

NOTE

- *Device registration can also be done by operating the audio unit or panel buttons on the navigation unit. Refer to “Bluetooth Audio Preparation” (page 6-64) (For audio unit) or the separate manual “NAVIGATION SYSTEM Owner’s Manual” (For navigation unit).*
- *Depending on the device, the registration status may be lost after a certain period of time. If this occurs, repeat the entire process from Step 1.*

▼ Making a Call Using a Telephone Number**NOTE**

Practice this while parked until you are confident you can do it while driving in a non-taxing road situation. If you are not completely comfortable, make all calls from a safe parking position, and move out only when fully under control and you can devote your eyes and mind to driving.

1. Press the pick-up button (with/without 7-inch navigation system) or talk button with a short press (without 7-inch navigation system) or a long press (with 7-inch navigation system).

NOTE

For vehicles with the 7-inch navigation system, you can also press the talk button with a short press and say: [Beep] “Telephone” or “Phone”.

2. **Say:** [Beep] “Dial”
3. **Prompt:** “Number, please”
4. **Say:** [Beep] “XXXXXXXXXXXX (Ex. “555-1234”) (Telephone number)”
5. **Prompt:** “Dialing XXXXXXXXXXXX (Ex. “555-1234”) (Telephone number) is this correct?”
6. **Say:** [Beep] “Yes” or “No”.
7. When “Yes” is spoken, the procedure proceeds to Step 8.
When “No” is spoken, the procedure returns to Step 3.
8. **Prompt:** “Dialing”

NOTE

The “Dial” command and a telephone number can be combined.

Ex. In Step 2, say, “Dial 123-4567”, then, Steps 3 and 4 can be skipped.

▼ Receiving an Incoming Call

1. **Prompt:** “Incoming call, press the pickup button to answer”.
2. To accept the call, press the pick-up button.
To reject the call, press the hang-up button.

Bluetooth Hands-Free

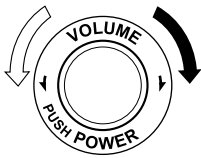
▼ Hanging Up a Call

Press the hang-up button during the call. A beep sound will confirm that call is ended.

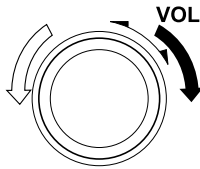
▼ Volume Adjustment

The power/volume dial of the audio unit or the 7-inch navigation system is used to adjust the volume. Turn the dial to the right to increase volume, to the left to decrease it.

Audio unit



Navigation system



NOTE

- The volume can also be adjusted using the volume button on the steering wheel.
- The music volume of the audio unit and the 7-inch navigation system cannot be adjusted while Bluetooth Hands-Free is being used.

▼ Voice Guidance Interrupt Operation

Voice guidance can be stopped by pressing the talk button with a short press while it is being heard. A new voice input command can then be spoken by the user.

- Press the talk button with a short press.

▼ Help Function Use

The help function informs the user of all the available voice commands under the current conditions.

1. Press the talk button with a short press.
2. **Say:** [Beep] “Help”
3. Follow the prompts to receive the appropriate voice guidance instructions.

Convenient Use of the Hands-Free System

▼ Phonebook Usage

Phonebook registration

Phone numbers can be registered to the Bluetooth Hands-Free phonebook.

NOTE

Do this function only when parked. It is too distracting to attempt while driving and you may make too many errors to be effective.

1. Press the pick-up button (with/without 7-inch navigation system) or talk button with a short press (without 7-inch navigation system) or a long press (with 7-inch navigation system).

NOTE

For vehicles with the 7-inch navigation system, you can also press the talk button with a short press and say: [Beep] "Telephone" or "Phone".

2. **Say:** [Beep] "Phonebook"
3. **Prompt:** "Select one of the following: New entry, edit, list names, delete, erase all or import contact."
4. **Say:** [Beep] "New entry"
5. **Prompt:** "Name please."
6. **Say:** [Beep] "XXXXXX... (Ex. "Mary's phone")" (Say a voice tag for the name registered.)
7. **Prompt:** "Adding XXXXX... (Ex. "Mary's phone") (Registered voice tag). Is this correct?"
8. **Say:** [Beep] "Yes"
9. **Prompt:** "Home, Work, Mobile, or Other?"

10. **Say:** [Beep] "Mobile" (Say "Home", "Work", "Mobile", or "Other", for the desired location to be registered.)
11. **Prompt:** "Mobile (Location to be registered). Is this correct?"
12. **Say:** [Beep] "Yes"
13. **Prompt:** "Number, please."
14. **Say:** [Beep] "XXXXXXXXXXXX (Ex. "555-1234")" (Say the phone number to be registered.)
15. **Prompt:** "XXXXXXXXXXXX (Ex. "555-1234") (Phone number registration). Is this correct?"
16. **Say:** [Beep] "Yes"
17. **Prompt:** "Number saved. Would you like to add another number for this entry?"
18. **Say:** [Beep] "Yes" or "No".
19. If "Yes", an additional phone number registration can be made for the same entry.
If "No", the procedure proceeds to Step 20.
20. **Prompt:** "Returning to main menu."

Import contact

Phonebook data from your device (Mobile phone) can be sent and registered to your Bluetooth Hands-Free phonebook using Bluetooth.

1. Press the pick-up button (with/without 7-inch navigation system) or talk button with a short press (without 7-inch navigation system) or a long press (with 7-inch navigation system).

Bluetooth Hands-Free

NOTE

For vehicles with the 7-inch navigation system, you can also press the talk button with a short press and say: [Beep] “Telephone” or “Phone”.

2. **Say:** [Beep] “Phonebook”
3. **Prompt:** “Select one of the following: New entry, edit, list names, delete, erase all or import contact.”
4. **Say:** [Beep] “Import contact”
5. **Prompt:** “Ready to receive a contact from the phone.”
6. Device (Mobile phone) operation: Select one entry from the phonebook and send it using Bluetooth.
7. **Prompt:** “X (Number of locations which include data) numbers have been imported. What name would you like to use for these numbers?”
8. **Say:** [Beep] “XXXXX... (Ex. “Mary’s phone”)” (Say a voice tag for the name registered.)
9. **Prompt:** “Adding XXXXXX... (Ex. “Mary’s phone”) (Voice tag). Is this correct?”
10. **Say:** [Beep] “Yes”
11. **Prompt:** “Number saved. Would you like to import another contact?”
12. **Say:** [Beep] “Yes” or “No”
13. If “Yes”, the procedure proceeds to Step 5.
If “No”, the procedure proceeds to Step 14.
14. **Prompt:** “Returning to main menu.”

Making calls using the phonebook

Telephone calls can be made by saying the name of a person (voice tag) whose phone number has been registered in Bluetooth Hands-Free in advance.

For the phonebook setting method, refer to (page 6-85).

1. Press the pick-up button (with/without 7-inch navigation system) or talk button with a short press (without 7-inch navigation system) or a long press (with 7-inch navigation system).

NOTE

For vehicles with the 7-inch navigation system, you can also press the talk button with a short press and say: [Beep] “Telephone” or “Phone”.

2. **Say:** [Beep] “Call”
3. **Prompt:** “Name please.”
4. **Say:** [Beep] “XXXXX... (Ex. “John’s phone”)” (Say a voice tag registered in the phonebook.)
5. **Prompt:** “Calling XXXXXX... (Ex. “John’s phone”) XXXX (Ex. “at home”). Is this correct?” (Voice tag and phone number location registered in phonebook).
6. **Say:** [Beep] “Yes”
7. **Prompt:** “Dialing”

NOTE

The “Call” command and the voice tag can be combined.

Ex. In Step 2, say, “Call John’s phone”, then, Steps 3 and 4 can be skipped.

▼ Redialing Function

Redialing the number of the person previously dialed using the phone is possible.

1. Press the pick-up button (with/without 7-inch navigation system) or talk button with a short press (without 7-inch navigation system) or a long press (with 7-inch navigation system).

NOTE

For vehicles with the 7-inch navigation system, you can also press the talk button with a short press and say: [Beep] “Telephone” or “Phone”.

2. **Say:** [Beep] “Redial”
3. **Prompt:** “Dialing”

▼ Emergency Calls

A call can be made to the emergency phone number (911) using the voice input command.

1. Press the pick-up button (with/without 7-inch navigation system) or talk button with a short press (without 7-inch navigation system) or a long press (with 7-inch navigation system).

NOTE

For vehicles with the 7-inch navigation system, you can also press the talk button with a short press and say: [Beep] “Telephone” or “Phone”.

2. **Say:** [Beep] “Emergency”
3. **Prompt:** “Dialing “911”, is this correct?”
4. **Say:** [Beep] “Yes”
5. **Prompt:** “Dialing”

▼ Refusing an Incoming Call

For incoming call refusal, refer to “Receiving an incoming call” (page 6-79).

▼ Mute

The microphone can be muted during a call.

1. Press the talk button with a short press.
2. **Say:** [Beep] “Mute”
3. **Prompt:** “Microphone muted”

Canceling mute

1. Press the talk button with a short press.
2. **Say:** [Beep] “Mute off”
3. **Prompt:** “Microphone unmuted”

▼ Transferring a Call

Transferring a call from Hands-Free to a device (Mobile phone)

Communication between the hands-free unit and a device (Mobile phone) is canceled, and the line can be switched to a standard call using a device (Mobile phone).

1. Press the talk button with a short press.
2. **Say:** [Beep] “Transfer call”
3. **Prompt:** “Transferred call to phone”

Transferring a call from a device (Mobile phone) to Hands-Free

Communication between devices (Mobile phone) can be switched to Bluetooth Hands-Free.

1. Press the talk button with a short press.
2. **Say:** [Beep] “Transfer call”

Bluetooth Hands-Free

3. **Prompt:** “Transferred call to Hands Free system”

▼ Multi-Call Functions

Call waiting

A call can be interrupted to receive an incoming call from a third party.

Call interrupt

A call can be switched to a new incoming call.

Method 1

1. Press the pick-up button.
2. **Prompt:** “Swapping calls.”

Method 2

1. Press the talk button with a short press.
2. **Say:** [Beep] “Swap call”
3. **Prompt:** “Swapping calls”

NOTE

- To refuse an incoming call, press the hang-up button.
- After receiving a new incoming call, the previous call is placed on hold.

Switching calls

Switching back to the previous call can also be done.

Method 1

1. Press the pick-up button.
2. **Prompt:** “Swapping calls.”

Method 2

1. Press the talk button with a short press.
2. **Say:** [Beep] “Swap call”
3. **Prompt:** “Swapping calls”

Three-way call function

1. Press the talk button with a short press.
2. **Say:** [Beep] “Join call”
3. **Prompt:** “Joining calls”

Making a call using a telephone number

1. Press the talk button with a short press.
2. **Say:** [Beep] “Dial”
3. **Prompt:** “Number, please”
4. **Say:** [Beep] “XXXXXXXXXXXX (Ex. “555-1234”) (Telephone number)”
5. **Prompt:** “Dialing XXXXXXXXXXXX (Ex. “555-1234”) (Telephone number) is this correct?”
6. **Say:** [Beep] “Yes” or “No”.
7. When “Yes” is spoken, the procedure proceeds to Step 8.
When “No” is spoken, the procedure returns to Step 3.
8. **Prompt:** “Dialing”

Making calls using the phonebook

1. Press the talk button with a short press.
2. **Say:** [Beep] “Call”
3. **Prompt:** “Name please.”
4. **Say:** [Beep] “XXXXX... (Ex. “John's phone”)” (Say a voice tag registered in the phonebook.)
5. **Prompt:** “Calling XXXXX... (Ex. “John's phone”) XXXX (Ex. “at home”). Is this correct?” (Voice tag and phone number location registered in phonebook).
6. **Say:** [Beep] “Yes”

7. **Prompt:** “Dialing”

Redialing function

1. Press the talk button with a short press.
2. **Say:** [Beep] “Redial”
3. **Prompt:** “Dialing”

Ending the current call

Press the hang-up button during the call.

▼ **Phonebook Settings**

Editing phonebook

The data registered to the Bluetooth Hands-Free phonebook can be edited.

NOTE

Do this function only when parked. It is too distracting to attempt while driving and you may make too many errors to be effective.

1. Press the pick-up button (with/without 7-inch navigation system) or talk button with a short press (without 7-inch navigation system) or a long press (with 7-inch navigation system).

NOTE

For vehicles with the 7-inch navigation system, you can also press the talk button with a short press and say: [Beep] “Telephone” or “Phone”.

2. **Say:** [Beep] “Phonebook”
3. **Prompt:** “Select one of the following: New entry, edit, list names, delete, erase all or import contact.”
4. **Say:** [Beep] “Edit”
5. **Prompt:** “Please say the name of the entry you would like to edit or say, “List names”.”

6. **Say:** [Beep] “XXXXXX... (Ex. “Mary's phone”)” (Say the voice tag for the registered name to be edited in the phonebook.)
7. **Prompt:** “Home, Work, Mobile, or Other?”
8. **Say:** [Beep] “Home” (Say the registered location to be edited: “Home”, “Work”, “Mobile”, or “Other”).
9. **Prompt:** “XXXXXX... (Ex. “Mary's phone”) (Registered voice tag) XXXX (Ex. “Home”) (Registered location). Is this correct?”
10. **Say:** [Beep] “Yes”
11. **Prompt:** “The current number is XXXXXXXXXXXX (Ex. “555-1234”) (Currently registered number). New number, please.”

NOTE

If there was no previous phone number registered to a location (Ex. “Work”), the prompt will only read out “Number, please”.

12. **Say:** [Beep] “XXXXXXXXXXXX (Ex. “555-5678”)” (Say the new phone number to be registered.)
13. **Prompt:** “XXXXXXXXXXXX (Ex. “555-5678”) (The new phone number to be registered). Is this correct?”
14. **Say:** [Beep] “Yes”
15. **Prompt:** “Number changed, returning to main menu.”

Phonebook data deletion

Erasing individual phonebook data

Individual data registered to the Bluetooth Hands-Free phonebook can be cleared.

Bluetooth Hands-Free

NOTE

Do this function only when parked. It is too distracting to attempt while driving and you may make too many errors to be effective.

1. Press the pick-up button (with/without 7-inch navigation system) or talk button with a short press (without 7-inch navigation system) or a long press (with 7-inch navigation system).

NOTE

For vehicles with the 7-inch navigation system, you can also press the talk button with a short press and say: [Beep] "Telephone" or "Phone".

2. **Say:** [Beep] "Phonebook"
3. **Prompt:** "Select one of the following: New entry, edit, list names, delete, erase all or import contact."
4. **Say:** [Beep] "Delete"
5. **Prompt:** "Please say the name of the entry you would like to delete or say, "List names"."
6. **Say:** [Beep] "XXXXX... (Ex. "John's phone")" (Say the registered voice tag to be deleted from the phonebook.)
7. **Prompt:** "Deleting XXXXX... (Ex. "John's phone") (Registered voice tag) Home (Registered location). Is this correct?"
8. **Say:** [Beep] "Yes"
9. **Prompt:** "XXXXX... (Ex. "John's phone") (Registered voice tag) Home (Registered location) deleted, returning to main menu."

Complete deletion of the phonebook data

All data registered to the Bluetooth Hands-Free phonebook can be erased.

NOTE

Do this function only when parked. It is too distracting to attempt while driving and you may make too many errors to be effective.

1. Press the pick-up button (with/without 7-inch navigation system) or talk button with a short press (without 7-inch navigation system) or a long press (with 7-inch navigation system).

NOTE

For vehicles with the 7-inch navigation system, you can also press the talk button with a short press and say: [Beep] "Telephone" or "Phone".

2. **Say:** [Beep] "Phonebook"
3. **Prompt:** "Select one of the following: New entry, edit, list names, delete, erase all or import contact."
4. **Say:** [Beep] "Erase all"
5. **Prompt:** "Are you sure you want to erase everything from your Hands Free system phonebook?"
6. **Say:** [Beep] "Yes"
7. **Prompt:** "You are about to delete everything from your Hands Free system phonebook. Do you want to continue?"
8. **Say:** [Beep] "Yes"
9. **Prompt:** "Please wait, erasing the Hands Free system phonebook."
10. **Prompt:** "Hands-Free system phonebook erased, returning to main menu."

Read-out of names registered to the Bluetooth Hands-Free phonebook

Bluetooth Hands-Free can read out the list of names registered to its phonebook.

1. Press the pick-up button (with/without 7-inch navigation system) or talk button with a short press (without 7-inch navigation system) or a long press (with 7-inch navigation system).

NOTE

For vehicles with the 7-inch navigation system, you can also press the talk button with a short press and say: [Beep] "Telephone" or "Phone".

2. **Say:** [Beep] "Phonebook"
3. **Prompt:** "Select one of the following: New entry, edit, list names, delete, erase all or import contact."
4. **Say:** [Beep] "List names"
5. **Prompt:** "XXXXX..., XXXXX..., XXXXX... (Ex. "John's phone", Mary's phone, Bill's phone)" (Voice guidance reads out the voice tags registered to the phonebook.)

Press the talk button with a short press during the read-out at the desired name, and then say one of the following voice commands to execute it.

- "Continue": Continues the list read-out.
- "Call": Calls the registered phonebook data when the talk button is short-pressed.
- "Edit": Edits the registered phonebook data when the talk button is short-pressed.
- "Delete": Deletes the registered phonebook data when the talk button is short-pressed.

- "Previous": Returns to the previous phonebook data in read-out when the talk button is short-pressed.
6. **Prompt:** "End of list, would you like to start from the beginning?"
 7. **Say:** [Beep] "No"
 8. **Prompt:** "Returning to main menu."

▼ DTMF (Dual Tone Multi-Frequency Signal) Transmission

This function is used when transmitting DTMF via the user's voice. The receiver of a DTMF transmission is generally a home telephone answering machine or a company's automated guidance call center (When you send tone signals back according to the voice guidance recording).

1. Press the talk button with a short press.
2. **Say:** [Beep] "XXXX... send" (Say DTMF code)
3. **Prompt:** "Sending XXXX... (DTMF code)"

Bluetooth Hands-Free

Hands-Free Setting

▼ Device

Device registration

For the registration of a Bluetooth equipped device to Bluetooth Hands-Free, refer to “Bluetooth Hands-Free Preparation” (page 6-76).

Registered device read-out

Bluetooth Hands-Free can read-out the devices registered to its system.

NOTE

Do this function only when parked. It is too distracting to attempt while driving and you may make too many errors to be effective.

1. Press the pick-up button (with/without 7-inch navigation system) or talk button with a short press (without 7-inch navigation system) or a long press (with 7-inch navigation system).

NOTE

For vehicles with the 7-inch navigation system, you can also press the talk button with a short press and say: [Beep] “Telephone” or “Phone”.

2. **Say:** [Beep] “Setup”
3. **Prompt:** “Select one of the following: Pairing options, confirmation prompts, language, passcode, select phone or select music player.”
4. **Say:** [Beep] “Pairing options”
5. **Prompt:** “Select one of the following: Pair, edit, delete, or list.”
6. **Say:** [Beep] “List”

7. **Prompt:** “XXXXXX..., XXXXX..., XXXXX... (Ex. Device A, device B, device C)” (The voice guidance reads out the device tags registered to the hands-free system.)

Press the talk button with a short press during the read-out at the desired device, and then say one of the following voice commands to execute it.

- “Select phone”: Selects device (Mobile phone) when the talk button is short-pressed.
- “Select music player”: Selects device (Music player) when the talk button is short-pressed.
- “Edit”: Edits device when the talk button is short-pressed.
- “Continue”: Continues the list read-out.
- “Delete”: Deletes the registered device when the talk button is short-pressed.
- “Previous”: Returns to the previous device in read-out when the talk button is short-pressed.

8. **Prompt:** “End of list, would you like to start from the beginning?”

9. **Say:** [Beep] “No”

10. **Prompt:** “Returning to main menu.”

Device selection

If several devices have been programmed, the Bluetooth unit links the device last programmed. If you would like to link a different programmed device, it is necessary to change the link. The order of device priority after the link has been changed is maintained even when the ignition switch is turned off.

Hands-free phone

1. Press the pick-up button (with/without 7-inch navigation system) or talk button with a short press (without 7-inch navigation system) or a long press (with 7-inch navigation system).

NOTE

For vehicles with the 7-inch navigation system, you can also press the talk button with a short press and say: [Beep] “Telephone” or “Phone”.

2. **Say:** [Beep] “Setup”
3. **Prompt:** “Select one of the following: Pairing options, confirmation prompts, language, passcode, select phone or select music player.”
4. **Say:** [Beep] “Select phone”
5. **Prompt:** “Please say 1 for XXXXX... (Ex. device A), 2 for XXXXX... (Ex. device B...)”
6. **Say:** [Beep] “X” (Say the number for the mobile phone to be connected.)
7. **Prompt:** “XXXXX... (Ex. device B...) (Registered device tag) selected, is this correct?”
8. **Say:** [Beep] “Yes”
9. **Prompt:** “XXXXX... (Ex. device B...) (Device tag) will temporarily override phone priorities, returning to main menu.”

Music player

1. Press the pick-up button (with/without 7-inch navigation system) or talk button with a short press (without 7-inch navigation system) or a long press (with 7-inch navigation system).

NOTE

For vehicles with the 7-inch navigation system, you can also press the talk button with a short press and say: [Beep] “Telephone” or “Phone”.

2. **Say:** [Beep] “Setup”
3. **Prompt:** “Select one of the following: Pairing options, confirmation prompts, language, passcode, select phone or select music player.”
4. **Say:** [Beep] “Select music player”
5. **Prompt:** “Please say 1 for XXXXX... (Ex. device A), 2 for XXXXX... (Ex. device B...)”
6. **Say:** [Beep] “X” (Say the number for the music player to be connected.)
7. **Prompt:** “XXXXX... (Ex. device B...) (Registered device tag) selected, is this correct?”
8. **Say:** [Beep] “Yes”
9. **Prompt:** “XXXXX... (Ex. device B...) (Device tag) selected.”

NOTE

Device (Music player) selection can also be done by operating the panel button (page 6-64).

Registered device (Mobile phone) deletion

Registered devices (Mobile phone) can be deleted individually or collectively.

NOTE

Do this function only when parked. It is too distracting to attempt while driving and you may make too many errors to be effective.

Bluetooth Hands-Free

1. Press the pick-up button (with/without 7-inch navigation system) or talk button with a short press (without 7-inch navigation system) or a long press (with 7-inch navigation system).

NOTE

For vehicles with the 7-inch navigation system, you can also press the talk button with a short press and say: [Beep] "Telephone" or "Phone".

2. **Say:** [Beep] "Setup"
3. **Prompt:** "Select one of the following: Pairing options, confirmation prompts, language, passcode, select phone or select music player."
4. **Say:** [Beep] "Pairing options"
5. **Prompt:** "Select one of the following: Pair, edit, delete, or list."

NOTE

A registered device (Mobile phone) can be deleted using the registration list.

6. **Say:** [Beep] "Delete"
7. **Prompt:** "Please say 1 for XXXXX... (Ex. device A), 2 for XXXXX... (Ex. device B...)" (The device tag of the registered device is read out by the HFP.)
8. **Say:** [Beep] "X" (Say the number of the device to be deleted.)

NOTE

Say "All" to delete all devices (Mobile phone).

9. **Prompt:** "Deleting XXXXX... (Ex. device B...)" (Registered device tag). Is this correct?"
10. **Say:** [Beep] "Yes"
11. **Prompt:** "Deleted"

Registered device editing

1. Press the pick-up button (with/without 7-inch navigation system) or talk button with a short press (without 7-inch navigation system) or a long press (with 7-inch navigation system).

NOTE

For vehicles with the 7-inch navigation system, you can also press the talk button with a short press and say: [Beep] "Telephone" or "Phone".

2. **Say:** [Beep] "Setup"
3. **Prompt:** "Select one of the following: Pairing options, confirmation prompts, language, passcode, select phone or select music player."
4. **Say:** [Beep] "Pairing options"
5. **Prompt:** "Select one of the following: Pair, edit, delete, or list."
6. **Say:** [Beep] "Edit"
7. **Prompt:** "Please say 1 for XXXXX... (Ex. device A), 2 for XXXXX... (Ex. device B...), which device please?" (The device tag of the registered device is read out by the HFP.)
8. **Say:** [Beep] "X" (Say the number of the device to be edited.)
9. **Prompt:** "New name please?"
10. **Say:** [Beep] "XXXXX... (Ex. device C)" (Speak a "device tag", an arbitrary name for the device.)
11. **Prompt:** "XXXXX... (Ex. device C) (Device tag), is this correct?"
12. **Say:** [Beep] "Yes"
13. **Prompt:** "New name saved, returning to main menu."

▼ Security Setting

If a passcode is set, the system cannot be activated unless the passcode is input.

NOTE

Do this function only when parked. It is too distracting to attempt while driving and you may make too many errors to be effective.

Passcode setting

1. Press the pick-up button (with/without 7-inch navigation system) or talk button with a short press (without 7-inch navigation system) or a long press (with 7-inch navigation system).

NOTE

For vehicles with the 7-inch navigation system, you can also press the talk button with a short press and say: [Beep] “Telephone” or “Phone”.

2. **Say:** [Beep] “Setup”
3. **Prompt:** “Select one of the following: Pairing options, confirmation prompts, language, passcode, select phone or select music player.”
4. **Say:** [Beep] “Passcode”
5. **Prompt:** “Passcode is disabled. Would you like to enable it?”
6. **Say:** [Beep] “Yes”
7. **Prompt:** “Please say a 4-digit passcode. Remember this passcode. It will be required to use this system.”
8. **Say:** [Beep] “XXXX” (Say a desired 4-digit passcode, “PCode”.)
9. **Prompt:** “Passcode XXXX (Passcode, PCode). Is this correct?”
10. **Say:** [Beep] “Yes”

11. **Prompt:** “Passcode is enabled, returning to main menu.”

Using Bluetooth Hands-Free with a passcode

1. Press the pick-up button (with/without 7-inch navigation system) or talk button with a short press (without 7-inch navigation system) or a long press (with 7-inch navigation system).

NOTE

For vehicles with the 7-inch navigation system, you can also press the talk button with a short press and say: [Beep] “Telephone” or “Phone”.

2. **Prompt:** “Hands-Free system is locked. State the passcode to continue.”
3. **Say:** [Beep] “XXXX” (Say the set passcode “PCode”.)
4. If the correct passcode is input, voice guidance “XXXXXX... (Ex. “Mary’s device) (Device tag) is connected” is announced.
If the passcode is incorrect, voice guidance “XXXX (4-digit passcode, Pcode) incorrect passcode, please try again” is announced.

Canceling the passcode**NOTE**

Do this function only when parked. It is too distracting to attempt while driving and you may make too many errors to be effective.

1. Press the pick-up button (with/without 7-inch navigation system) or talk button with a short press (without 7-inch navigation system) or a long press (with 7-inch navigation system).

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NOTE

For vehicles with the 7-inch navigation system, you can also press the talk button with a short press and say: [Beep] “Telephone” or “Phone”.

2. **Say:** [Beep] “Setup”
3. **Prompt:** “Select one of the following: Pairing options, confirmation prompts, language, passcode, select phone or select music player.”
4. **Say:** [Beep] “Passcode”
5. **Prompt:** “Passcode is enabled. Would you like to disable it?”
6. **Say:** [Beep] “Yes”
7. **Prompt:** “Passcode is disabled, returning to main menu.”

Confirmation Prompts

The confirmation prompt confirms the command content to the user before advancing to the operation requested by the user. When this function is turned on, the system reads out the voice input command previously received and confirms whether the command is correct before advancing to the command execution.

When the confirmation prompt function is turned on:

(Ex. “Calling John's device. Is this correct?”)

When the confirmation prompt function is turned off:

(Ex. “Calling John's device.”)

NOTE

If the confirmation prompt function is turned off when making an emergency call, the system reads out and confirms the command before executing it.

1. Press the pick-up button (with/without 7-inch navigation system) or talk button with a short press (without 7-inch navigation system) or a long press (with 7-inch navigation system).

NOTE

For vehicles with the 7-inch navigation system, you can also press the talk button with a short press and say: [Beep] “Telephone” or “Phone”.

2. **Say:** [Beep] “Setup”
3. **Prompt:** “Select one of the following: Pairing options, confirmation prompts, language, passcode, select phone or select music player.”
4. **Say:** [Beep] “Confirmation prompts”
5. **Prompt:** “Confirmation prompts are on/off. Would you like to turn confirmation prompts off/on?”
6. **Say:** [Beep] “Yes”
7. **Prompt:** “Confirmation prompts are off/on, returning to main menu.”

▼ Voice Recognition Learning Function (Speaker Enrollment)

The voice recognition learning function enables voice recognition appropriate to the characteristics of the user's voice. If the recognition of the voice input commands to the system is not adequate, this function can largely improve the system's voice recognition of the user. If your voice can be recognized sufficiently without using this function, you may not realize the added benefit of the function. To register your voice, the voice input command list must be read out. Read out the list when the vehicle is parked. Perform the registration in as quiet a place as possible (page 6-74).

The registration must be performed completely. The required time is a few minutes. The user needs to be seated in the driver's seat with the voice input command list for voice recognition learning open to the page indicated below.

When voice recognition learning is done for the first time

1. Press the pick-up button (with/without 7-inch navigation system) or talk button with a short press (without 7-inch navigation system) or a long press (with 7-inch navigation system).

NOTE

For vehicles with the 7-inch navigation system, you can also press the talk button with a short press and say: [Beep] "Telephone" or "Phone".

2. **Say:** [Beep] "Voice training"

3. **Prompt:** "This operation must be performed in a quiet environment while the vehicle is stopped. See the owner's manual for the list of required training phrases. Press and release the talk button when you are ready to begin. Press the hangup button to cancel at any time."
4. Press the talk button with a short press.
5. The voice guidance reads out the voice input command number (refer to the voice input command list for voice recognition learning). (Ex. "Please read phrase 1")
6. **Say:** [Beep] "0123456789" (Say the voice input command for voice recognition learning (1 to 8) according to the voice guidance.)
7. **Prompt:** "Speaker enrollment is complete, returning to main menu."

NOTE

If an error occurred in the voice recognition learning, re-learning can be done by pressing the talk button with a short press.

Voice recognition re-learning

If voice recognition learning has already been done.

1. Press the pick-up button (with/without 7-inch navigation system) or talk button with a short press (without 7-inch navigation system) or a long press (with 7-inch navigation system).

NOTE

For vehicles with the 7-inch navigation system, you can also press the talk button with a short press and say: [Beep] "Telephone" or "Phone".

2. **Say:** [Beep] "Voice training"

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3. **Prompt:** “Enrollment is enabled/ disabled. Would you like to disable/ enable or retrain?”
4. **Say:** [Beep] “Retrain”
5. **Prompt:** “This operation must be performed in a quiet environment while the vehicle is stopped. See the owner's manual for the list of required training phrases. Press and release the talk button when you are ready to begin. Press the hangup button to cancel at any time.”
6. Press the talk button with a short press.
7. The voice guidance reads out the voice input command number (refer to the voice input command list for voice recognition learning). (Ex. “Please read phrase 1”)
8. **Say:** [Beep] “0123456789” (Say the voice input command for voice recognition learning (1 to 8) according to the voice guidance.)
9. **Prompt:** “Speaker enrollment is complete, returning to main menu.”

NOTE

If an error occurred in the voice recognition learning, re-learning can be done by pressing the talk button with a short press.

Voice input command list for voice recognition learning

When reading out, the following points must be observed:

- Read out the numbers one at a time correctly and naturally.

(For example, “1234” must be read out “one, two, three, four”, not “twelve, thirty four”).)

- Do not read out parentheses. “(” and hyphens “-” are used for separating numbers in a phone number.

Ex.

“(888) 555-1212” must be spoken “Eight, eight, eight, five, five, five, one, two, one, two.”

Phrase	Command
1	0123456789
2	(888) 555-1212
3	Call
4	Dial
5	Setup
6	Cancel
7	Continue
8	Help

NOTE

- *The applicable phrase appears in the display.*
- *After user voice registration is completed, voice guidance “Speaker enrollment is complete, returning to main menu” is announced.*

Voice recognition learning on/off

1. Press the pick-up button (with/without 7-inch navigation system) or talk button with a short press (without 7-inch navigation system) or a long press (with 7-inch navigation system).

NOTE

For vehicles with the 7-inch navigation system, you can also press the talk button with a short press and say: [Beep] “Telephone” or “Phone”.

2. **Say:** [Beep] “Voice training”

3. **Prompt:** “Enrollment is enabled/disabled. Would you like to disable/enable or retrain?”
4. **Say:** [Beep] “Disable” or “Enable”
5. When “Disable” is spoken, the voice recognition learning is turned off. When “Enable” is spoken, the voice recognition learning is turned on.
6. **Prompt:** “Speaker Enrollment is disabled/enabled, returning to main menu.”

When Bluetooth Hands-Free Cannot be Used

Bluetooth Hands-Free cannot be used under the following conditions:

- The device is outside of the communication area.
- The device has a malfunction.
- The device is not connected to the hands-free unit equipped on the vehicle.
- The device's battery is weak.
- The device is turned off.
- The device is placed where radio reception is difficult.
- The ignition switch is turned off.

Bluetooth Hands-Free

Safety Certification

FCC ID: CB2MBLUEC07 IC:279B-MBLUEC07

This device complies with Part 15 of the FCC Rules and with RSS-210 of Industry Canada. Operation is subject to the following two conditions:

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

WARNING

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

The term "IC: " before the radio certification number only signifies that Industry Canada technical specifications were met.

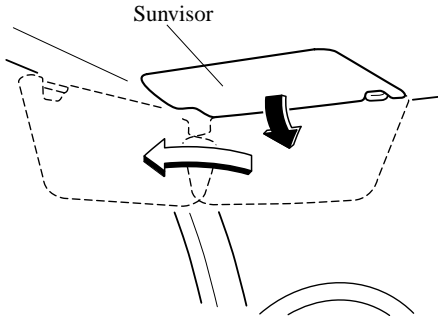
The antenna used for this transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. End-users and installers must be provided with installation instructions and transmitter operating conditions for satisfying RF exposure compliance.

Mazda Bluetooth Hands-Free Customer Service

For toll-free Bluetooth Hands-Free customer service call 800-430-0153 or go to www.MazdaUSA.com/bluetooth for assistance.

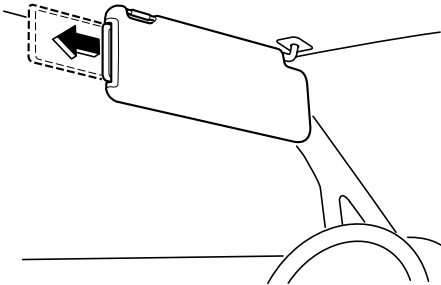
Sunvisors

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, retract the visor extender to its original position. Otherwise, the visor extender could hit the rearview mirror.

▼ Vanity Mirrors

To use the vanity mirror, lower the sunvisor.
The vanity mirror light will illuminate when you open the cover.

Interior Equipment

Interior Lights

▼ Illuminated Entry System

When the illuminated entry system operates, the overhead light (switch is in the DOOR position) turns on for:

- About 30 seconds after the driver's door is unlocked and the ignition switch is in the LOCK position (with the ignition key removed).
- About 15 seconds after all doors are closed.

(With Advanced key)

About 5 seconds after all doors are closed when the advanced key is outside of the vehicle.

- About 15 seconds after the ignition switch is in the LOCK position (with the ignition key removed) 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.

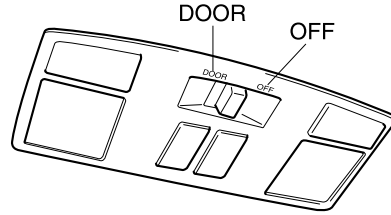
NOTE

Battery saver

If any door is left opened, the light turns off 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.

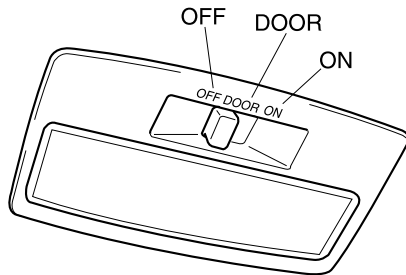
▼ Overhead Lights

Front



Switch Position	Front Overhead Lights
OFF	Light off
DOOR	<ul style="list-style-type: none"> • Light is on when any door is open • Light is on or off when the illuminated entry system is on

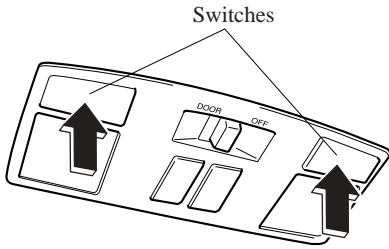
Rear



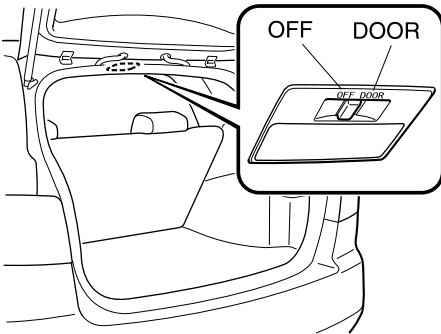
Switch Position	Rear Overhead Lights
OFF	Light off
DOOR	<ul style="list-style-type: none"> • Light is on when any door is open • Light is on or off when the illuminated entry system is on
ON	Light on

▼ Map Lights

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

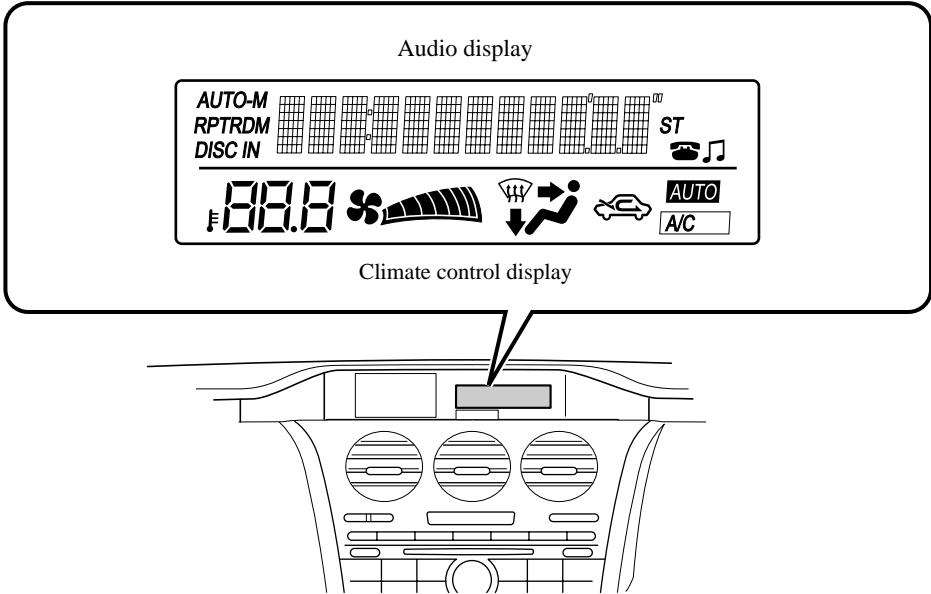


▼ Luggage Compartment Light



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:

- Climate Control Display (Fully Automatic Type Air Conditioning System)
- Audio Display
- Bluetooth Hands-Free Display* Refer to Bluetooth Hands-Free on page 6-72.

▼ Climate Control Display

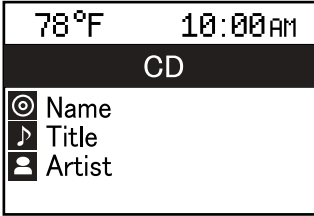
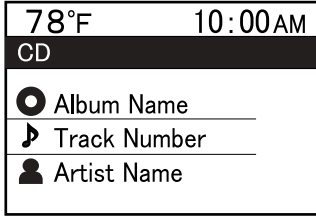
The climate control system status is displayed. To operate the climate control system, refer to “Climate Control System” (page 6-2).

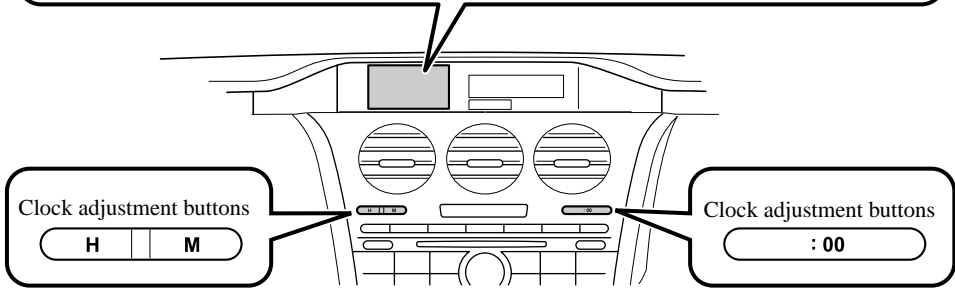
▼ Audio Display

The audio system status is displayed. To operate the audio system, refer to “Audio System” (page 6-14).

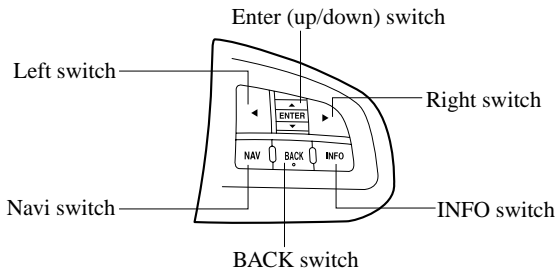
Interior Equipment

Multi Information Display*

Without navigation system and rear view monitor	With navigation system or rear view monitor
 <p>78°F 10:00AM CD Name Title Artist</p>	 <p>78°F 10:00AM CD Album Name Track Number Artist Name</p>



Steering Switch



Switch	Function
Enter (up/down) switch	Used to select a menu and change numbers. Select up or down and press enter.
Right switch/Left switch	Used to select digits when setting numbers.
Navi switch (With navigation system)	Press to switch the system to the navigation system screen.
BACK switch	Press during SETTINGS to return to the previous screen.
INFO switch	Press to switch to the multi information display. Switches the setting display in the order of Trip computer (average fuel economy/average vehicle speed) → Trip computer (current fuel economy/distance-to-empty) → Audio display → Settings (reset averages/maintenance/preferences). Each time the switch is pressed, the multi information display cycles through.

▼ Multi Information Display Functions

Function name	Details	See page
Clock	Constant display of time.	6-104
Outside temperature display	Constant display of ambient temperature.	6-105
Audio display	Displays the audio operation status. Displayed when the INFO switch is pressed.	6-105
Trip computer	Displays the average fuel economy, average vehicle speed, current fuel economy, and distance-to-empty. Displayed when the INFO switch is pressed.	6-105
Maintenance monitor	Notification of periodic inspection and tire rotation period	6-107
Warning indicator	Notification of the need to take caution	6-111
Settings	Used to change the multi information display settings. Displayed when the INFO switch is pressed.	6-111
Rear view monitor	The rear view monitor is a visual assist system when reversing the vehicle that provides images from the rear of the vehicle.	6-113
Navigation system	Refer to the separate manual	

Interior Equipment

▼ Clock

The time is displayed when the ignition is switched to ACC or ON.



10:00 AM

Time setting

1. Turn the ignition switch to the ACC or ON position.
2. Adjust the time using the time setting buttons (H , M).
The hours advance while the time setting button (H) is pressed.
The minutes advance while the time setting button (M) is pressed.

Time resetting

1. Turn the ignition switch to the ACC or ON position.
2. Press the :00 button.
3. When the button is pressed, the time will be reset as follows:

(Example)

12:01—12:29→12:00

12:30—12:59→1:00

NOTE

When the :00 button is pressed, the seconds will start at “00”.

With navigation system

Time zone switching

1. Press the INFO switch until the SETTINGS screen is displayed.
2. Select PREFERENCES by pressing the Enter (up/down) switch up or down, and then press the Enter (up/down) switch.
3. Select TIME ZONE by pressing the Enter (up/down) switch up or down, and then press the Enter (up/down) switch.
4. Select the desired time zone by pressing the Enter (up/down) switch up or down, and then press the Enter (up/down) switch.

NOTE

- *Daylight saving time is not reflected in the time zone displayed.*
- *The clock does not display if there is no GPS signal reception.*
- *If the battery cables are disconnected and then reconnected, the clock does not operate until a GPS signal is received. Do not place objects on the dashboard, otherwise the clock may be unable to receive the GPS signal normally.*

▼ Outside Temperature Display

When the ignition switch is switched ON, the ambient temperature is displayed.

78°F

NOTE

- Under the following conditions, the ambient temperature display may differ from the actual ambient temperature depending on the surroundings and vehicle conditions:
 - Significantly cold or hot temperatures.
 - Sudden changes in ambient temperature.
 - The vehicle is parked.
 - The vehicle is driven at low speeds.
- When the ignition is switched to ACC, “- - -” is displayed.

▼ Audio Display

Press the INFO switch until the AUDIO screen is displayed. The audio operation status is displayed.

To operate the audio system, refer to “Audio System” (page 6-14).

▼ Trip Computer

The trip computer can display the following:

- The average fuel economy.
- The average vehicle speed.
- The current fuel economy.

- The approximate distance you can travel on the available fuel.

1. Switch the ignition ON.
2. Press the INFO switch until the trip computer screen is displayed.

If you have any problems with your trip computer, consult an Authorized Mazda Dealer.

Average fuel economy

This mode displays the average fuel economy by calculating the total fuel consumption and the total traveled distance since purchasing the vehicle, re-connecting the battery after disconnection, or resetting the data. The average fuel economy is calculated and displayed every minute.

78°F	10:00 AM
AVG. FUEL ECONOMY	
25.0 mpg	
AVG. SPEED	
45 mph	

To erase the displayed data, Refer to Settings on page 6-111.

After erasing, the calculated average fuel economy in - - - L/100 km (- - - mpg) is displayed after 1 minute has elapsed.

Average vehicle speed

This mode displays the average vehicle speed by calculating the distance and the time traveled since connecting the battery or resetting the data.

Interior Equipment

The average vehicle speed will be calculated every 10 seconds.

78°F	10:00 AM
AVG. FUEL ECONOMY	
25.0 mpg	
AVG. SPEED	
45 mph	

To erase the displayed data, Refer to Settings on page 6-111. After erasing, the calculated average vehicle speed in - - - km/h (- - - mph) is displayed after 1 minute has elapsed.

Current fuel economy

This mode displays the current fuel economy by calculating the amount of fuel consumption and the distance traveled.

The current fuel economy will be calculated every 2 seconds.

78°F	10:00 AM
CURRENT FUEL ECON.	
34.0 mpg	
RANGE	
235 miles	

When you've slowed to about 5 km/h (3 mph), - - - L/100 km (- - - mpg) will be displayed.

Distance-to-empty

This mode displays the approximate distance you can travel on the remaining fuel based on the fuel economy. The distance-to-empty will be calculated every second.

78°F	10:00 AM
CURRENT FUEL ECON.	
34.0 mpg	
RANGE	
235 miles	

NOTE

- Even though the distance-to-empty display may indicate a sufficient amount of remaining driving distance before refueling is required, refuel as soon as possible if the fuel gauge needle nears E or the low fuel warning light illuminates.
- The display will not change unless you add more than approximately 5 L {6 US qt, 5 Imp qt} of fuel.
- When the ignition is switched to ACC, "- - -" is displayed.

▼ Maintenance Monitor

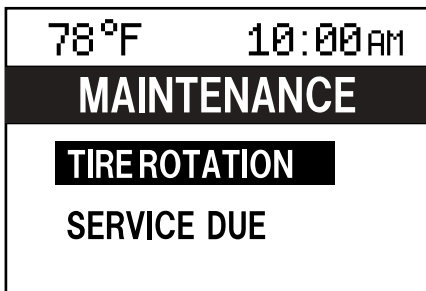
The periodic inspection and tire rotation period notification can be displayed by turning the Maintenance Monitor on.

NOTE

- *This function is inoperable while the vehicle is being driven.*
- **(With navigation system)**
If the battery cables are disconnected and then reconnected, the SERVICE DUE item in the MAINTENANCE setting cannot be done until the clock resets after receiving a GPS signal. Perform this setting after the clock resumes operation.

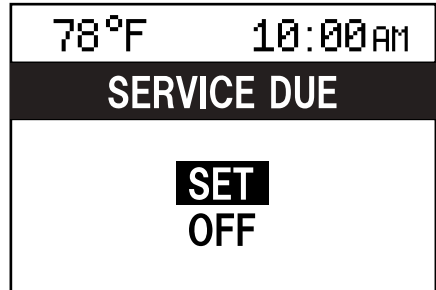
Initial setting method

1. Press the INFO switch until the SETTINGS screen is displayed.
2. Select MAINTENANCE by pressing the Enter (up/down) switch up or down, and then press the Enter (up/down) switch.
3. Select the item you want to turn on (TIRE ROTATION or SERVICE DUE) by pressing the Enter (up/down) switch up or down, and then press the Enter (up/down) switch.



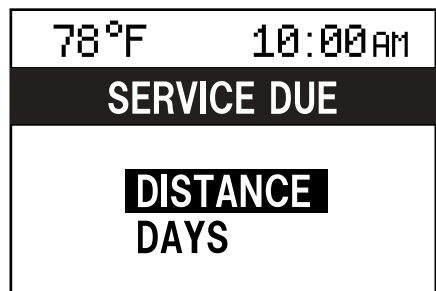
4. Press the Enter (up/down) switch.

5. Select SET and press the Enter (up/down) switch.



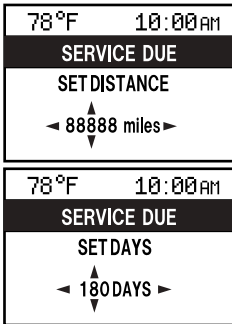
NOTE

- *For the service due notification, either the number of days or distance can be set. When selecting one of the two settings, the setting not selected is set to the initial value automatically.*
 - *Because tire rotation can only be set according to distance, the screen for setting distance is displayed when SET is selected.*
6. Select DISTANCE or DAYS and press the Enter (up/down) switch. The screen for setting the distance or days to the next maintenance period is displayed.



Interior Equipment

7. Select a digit using the Right switch/ Left switch, and press the Enter (up/down) switch up or down to change the value of the digit. If there is no need to change a digit, leave it as it is and press the Enter (up/down) switch.

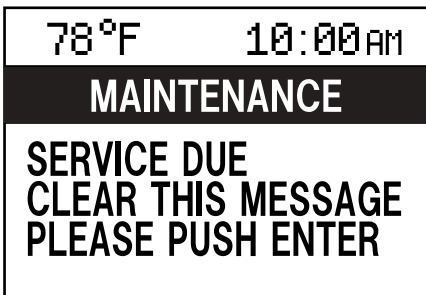


NOTE

The initial setting values are displayed corresponding to the maintenance schedule (except Puerto Rico). For each regional maintenance schedule, Refer to Scheduled Maintenance on page 8-3.

Message display

When the remaining days or the distance approaches 0, a message is displayed for 5 seconds each time the ignition is switched to ACC or ON.



NOTE

- If the Enter (up/down) switch is pressed while a message is displayed, it will no longer be displayed the next time the engine is started.
- After the vehicle is serviced and the remaining days/distance is reset, the message for the next maintenance period will be displayed when the remaining distance or days to the next maintenance period approaches 0 (displays when engine is started).
- If there are multiple tire rotation periods or service due, they are displayed according to their order.
- If there is more than one servicing due deadline with one past due and the other approaching, only the one which is past due will be displayed.

Display period

Item	Start of message display	End of message display
TIRE ROTATION	When remaining distance is less than 500 km (300 mile)	Distance exceeds 500 km (300 mile) from remaining distance of 0 km
SERVICE DUE	When remaining distance is less than 500 km (300 mile), or remaining days are less than 15 (which ever comes first)	Distance exceeds 500 km (300 mile) from remaining distance of 0 km, or 15 days have elapsed since remaining days reached "0" days (which ever comes first)

Message display

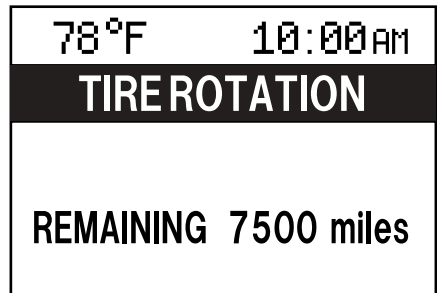
Item	Timing	Displayed message
TIRE ROTATION	Remaining distance: 500 km (300 mile) to -500 km (-300 mile)	TIRE ROTATION DUE
SERVICE DUE	Remaining distance: 500 km (300 mile) to 0 km (0 mile)	SERVICE DUE
	Remaining days: 15 to 0 days	
	Remaining distance: 0 km (0 mile) to -500 km (-300 mile)	SERVICE OVERDUE
	Remaining days: 0 to 15 days	

Reset method

If resetting is performed after a tire rotation or periodic inspection has been done, a notification of the next maintenance period will be displayed when the period approaches.

1. Press the INFO switch until the SETTINGS screen is displayed.
2. Select MAINTENANCE by pressing the Enter (up/down) switch up or down, and then press the Enter (up/down) switch.

3. Select the item you would like to reset (TIRE ROTATION or SERVICE DUE) by pressing the Enter (up/down) switch up or down, and then press the Enter (up/down) switch.



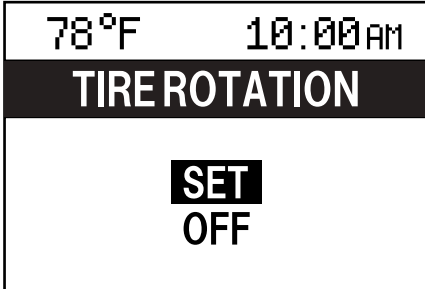
NOTE

- The current remaining distance and days is displayed.
- Even if the remaining distance or days have surpassed 0, the display does not display a minus (—) and leaves the value at 0.

4. Press the Enter (up/down) switch.

Interior Equipment

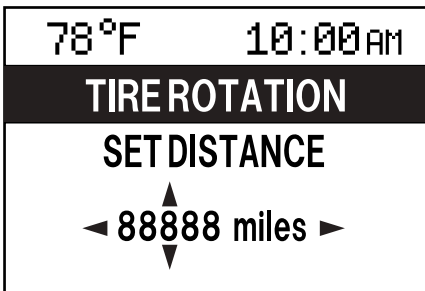
5. Select SET and press the Enter (up/down) switch.



NOTE

If the SERVICE DUE item has been set, both the days and distance can be selected. Because the tire rotation item can only be set according to distance, the screen for setting distance is displayed when SET is selected.

6. The DISTANCE or DAYS screen is displayed, and the remaining distance and days values return to the values previously set. If no changes are necessary, press the Enter (up/down) switch.



NOTE

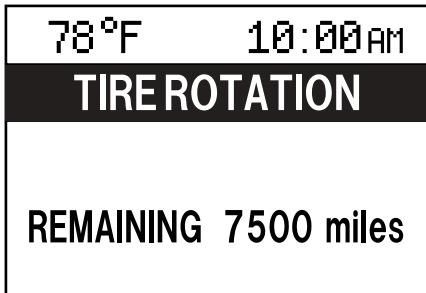
- *If the settings are changed from the initial values, the values which you set are displayed, not the initial values.*
- *Even if the battery is disconnected, the remaining distance and days information is not erased.*
- *If the multi information display is replaced or repaired, there is the possibility of the remaining distance and days information being erased.*

Method for turning the system off

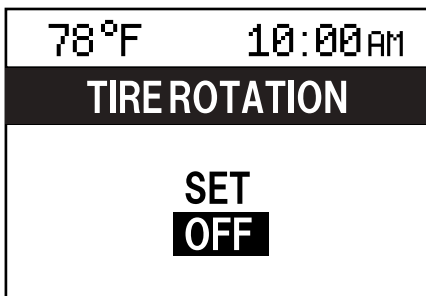
The maintenance monitor can be turned off even after it has been turned on. If you want to turn it off, the remaining distance and days calculation to the next maintenance period is stopped, and a message does not display to indicate an approaching maintenance period.

1. Press the INFO switch until the SETTINGS screen is displayed.
2. Select MAINTENANCE by pressing the Enter (up/down) switch up or down, and then press the Enter (up/down) switch.

- Select the item you want to turn off (TIRE ROTATION or SERVICE DUE) by pressing the Enter (up/down) switch up or down, and then press the Enter (up/down) switch.



- Select OFF and press the Enter (up/down) switch.



▼ Warning Indicator

The following warning indicators are displayed according to necessity. Warning indicators are displayed regardless of the multi-information display operation.

- DOOR OPEN (including the liftgate)
- TIGHTEN FUEL CAP (Displayed when the check fuel cap warning light illuminates in the instrument cluster.)
- CHECK TIRE PRESSURE
- RELEASE PARKING BRAKE

- Advanced Keyless Entry System related
 - KEY BATTERY IS LOW
 - ADVANCED KEY NOT FOUND
 - MOVE SHIFT LEVER TO P
 - STEERING WHEEL LOCK NOT RELEASED TURN WHEEL LEFT AND RIGHT
 - DEPRESS BRAKE PEDAL TO START ENGINE
 - DEPRESS CLUTCH PEDAL TO START ENGINE
 - USE AUXILIARY KEY

NOTE

When more than two warnings occur at the same time, indicators are switched at each specified time.

▼ Settings

The following settings can be changed:

- Buzzer volume (Ignition key reminder, lights-on reminder)
- Turn indicator sound
- Distance unit
- Temperature unit
- Display language

The data for the trip computer average fuel economy and the average vehicle speed can also be changed.

To change settings

- Press the INFO switch until the SETTINGS screen is displayed.
- Select PREFERENCES by pressing the Enter (up/down) switch up or down, and then press the Enter (up/down) switch.
- Select the setting item you want to change by pressing the Enter (up/down) switch up or down, and then press the Enter (up/down) switch.

Interior Equipment

4. Select the desired setting by pressing the Enter (up/down) switch up or down, and then press the Enter (up/down) switch.

NOTE

The buzzer volume for both the ignition key reminder and the lights-on reminder is changed simultaneously. If you prefer separate buzzer volume settings, consult an Authorized Mazda Dealer. If separate buzzer volume settings have been done at an Authorized Mazda Dealer, you will be unable to change the settings.

Resetting the data for the trip computer average fuel economy and the average vehicle speed

1. Press the INFO switch until the SETTINGS screen is displayed.
2. Select RESET AVERAGES and press the Enter (up/down) switch.
3. Select FUEL ECONOMY or SPEED, and press the Enter (up/down) switch.

▼ Rear View Monitor

The rear view monitor is a visual assist system when reversing the vehicle that provides images from the rear of the vehicle.

WARNING

The rear view monitor is only a visual assist device when reversing the vehicle. The images on the screen may be different from the actual conditions. Always drive carefully confirming the safety of the rear and the surrounding conditions by looking directly with your eyes. Reversing the vehicle by only looking at the screen may cause an accident or a collision with an object.

CAUTION

- *When the display is cold, images may course across the monitor or the screen and may be dimmer than usual, which could cause difficulty in confirming the surrounding conditions of the vehicle. Always drive carefully confirming the safety of the rear and the surrounding conditions by looking directly with your eyes.*
- *Do not apply excessive force to the camera. The camera position and angle may deviate.*
- *Do not disassemble, modify, or remove it as it may no longer be waterproof.*
- *The camera cover is made of plastic. Do not apply degreasing agents, organic solvents, wax, or glass coating agents to the camera cover. If any are spilled on the cover, wipe off with a soft cloth immediately.*
- *Do not rub the cover excessively, or polish it using an abrasive compound or a hard brush. The cover may be damaged affecting the image.*

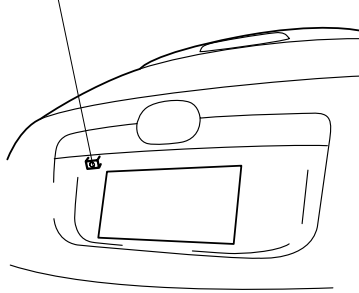
NOTE

- *If water, snow, or mud is stuck on the camera lens, wipe it off using a soft cloth. If it cannot be wiped off, use a mild detergent.*
- *If the camera temperature changes rapidly, such as by pouring hot water on it under cold temperature conditions, the rear view monitor may not operate correctly.*

Interior Equipment

Rear View Parking Camera Location

Rear View Parking Camera



Switching to the Rear View Monitor Display

Shift the shift lever to R with the ignition switch in the ON position to switch the display to the rear view monitor display.

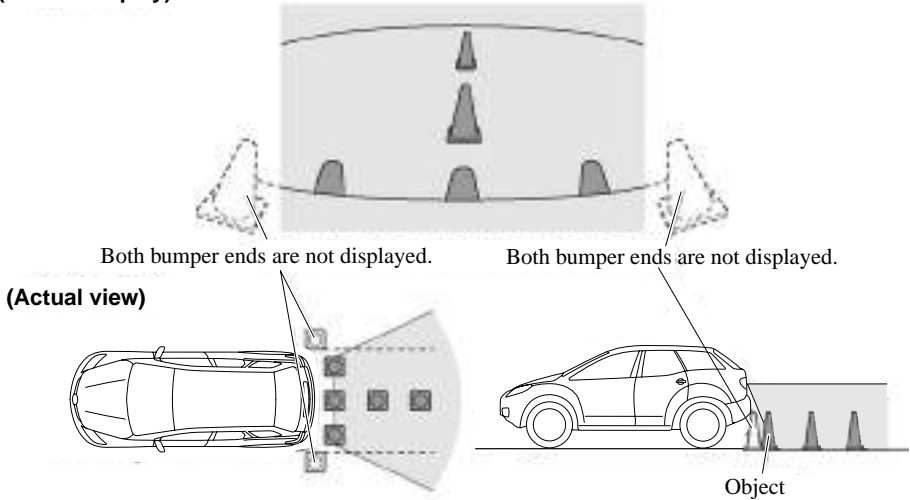
NOTE

When the shift lever is shifted from R to another shift lever position, the screen returns to the previous display.

Displayable Range on the Screen

The images on the screen may be different from the actual conditions.

(Screen display)



NOTE

- *The displayable range varies depending on the vehicle and road conditions.*
- *The displayable range is limited. Objects under the bumper or around the bumper ends cannot be displayed.*
- *The distance appearing in the displayed image is different from the actual distance because the rear view parking camera is equipped with a specific lens.*
- *Some optionally installed vehicle accessories may be picked up by the camera. Do not install any optional parts that can interfere with the camera view, such as illuminating parts or parts made of reflective material.*
- *It may be difficult to see the display under the following conditions, however, it does not indicate a malfunction.*
 - *In darkened areas.*
 - *When the temperature around the lens is high/low.*
 - *When the camera is wet such as on a rainy day or during periods of high humidity.*
 - *When foreign material such as mud is stuck around the camera.*
 - *When the camera lens reflects sunlight or headlight beams.*
- *If the camera picks up a high-intensity light such as sunlight reflected off the vehicle body, a bright belt (light line) may appear on the display. (Smear phenomenon)*
- *Image display may be delayed if the temperature around the camera is low.*

Interior Equipment

Rear View Monitor Operation

The operation of the rear view monitor when reversing the vehicle varies depending on the traffic, road, and vehicle conditions. The amount of steering and the timing also varies depending on conditions, so confirm the surrounding conditions directly with your eyes and steer the vehicle in accordance with the conditions.

Be well aware of the above cautions prior to using the rear view monitor.

NOTE

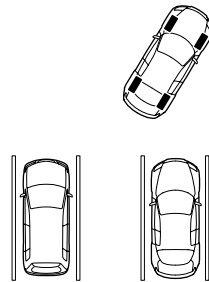
Images displayed on the monitor from the rear view parking camera are reversed images (mirror images).

1. Shift the shift lever to R to switch the display to the rear view monitor display.
2. Confirming the surrounding conditions, reverse the vehicle.

(Screen display)



(Actual view)



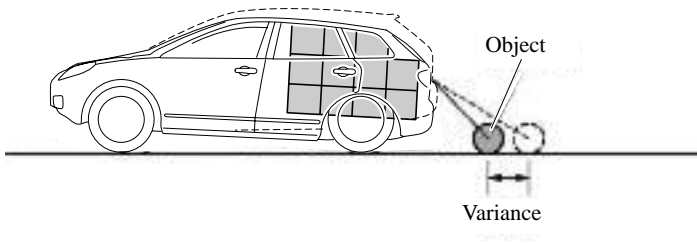
3. When the shift lever is shifted from R to another shift lever position, the screen returns to the previous display.

Variance Between Actual Road Conditions and Displayed Image

Some variance occurs between the actual road and the displayed road. Such variance in distance perspective could lead to an accident. Note the following conditions that may cause a variance in distance perspective.

When the vehicle is tilted due to the weight of passengers and load

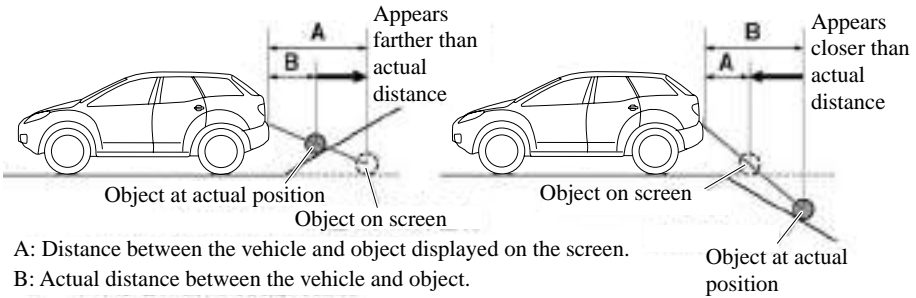
When the vehicle rear is lowered, the object displayed on the screen appears farther than the actual distance.



Interior Equipment

When there is a steep grade behind the vehicle

When there is a steep upgrade (downgrade) behind the vehicle, the object displayed on the screen appears farther (downgrade: closer) than the actual distance.



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.

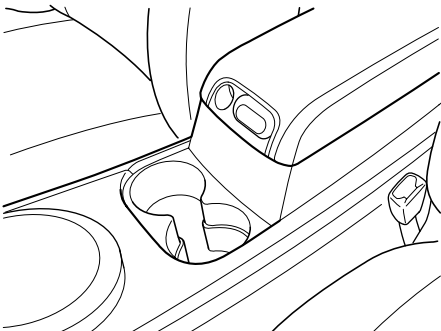
Do not put anything other than cups or drink cans in cup holders:

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

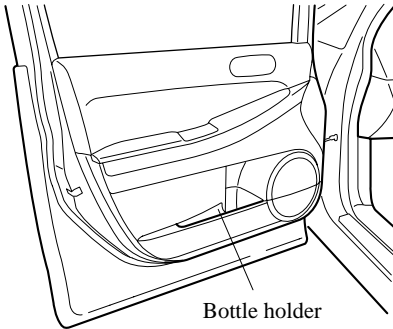
The rear cup holder is on the rear center armrest.



Interior Equipment

Bottle Holder

Bottle holders are on the inside of the 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:

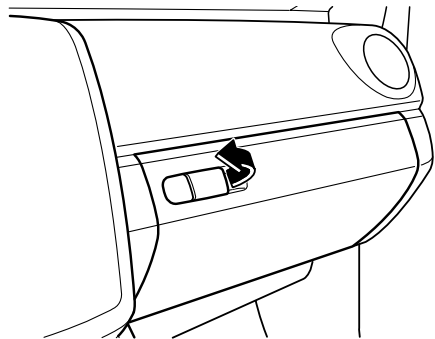
Driving with the storage boxes open is dangerous. To reduce the possibility of injury in an accident or a sudden stop, keep the storage boxes closed when driving.

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.

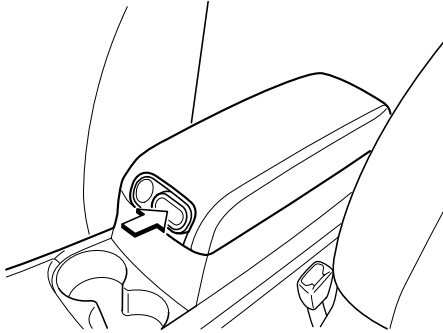
▼Glove Box

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

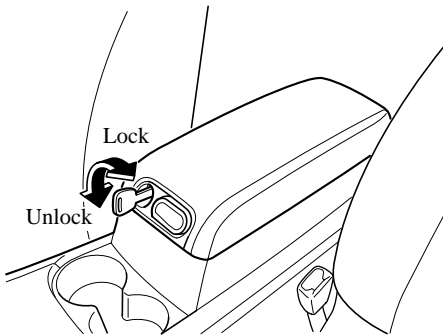


▼ Center Console

To open, push the button.

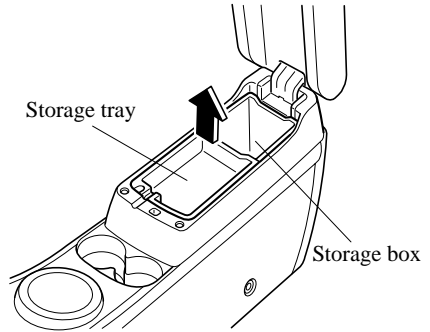


The center console has a lockable lid, insert the key into the slot; then turn the key clockwise to lock, counterclockwise to unlock.



Storage box and tray

The storage box and tray can be removed.



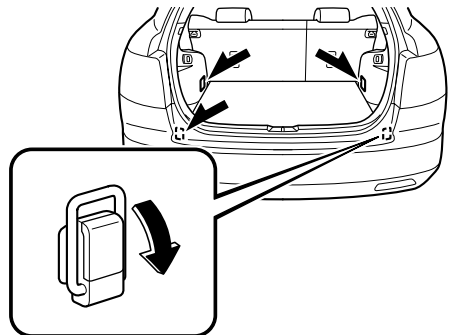
▼ Cargo Securing Loops

⚠ 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.



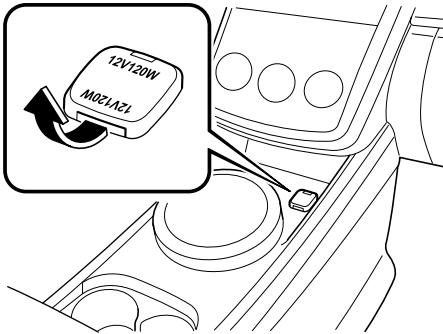
Interior Equipment

Accessory Sockets

Only use genuine Mazda accessories or the equivalent requiring no greater than 120 W (DC 12 V, 10 A).

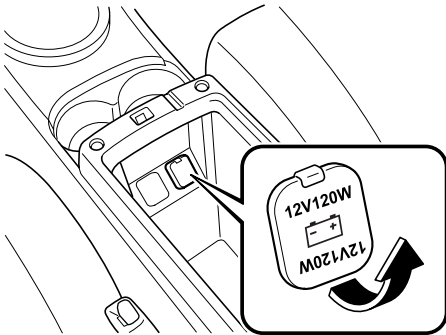
Type A

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



Type B

The accessory sockets can be used regardless of the position of the ignition switch.



CAUTION

To prevent accessory socket damage or electrical failure, pay attention to the following:

- Do not use accessories that require more than 120 W (DC 12 V, 10 A).
- Do not use accessories that are not genuine Mazda accessories or the equivalent.
- Close the cover when the accessory socket is not in use to prevent foreign objects and liquids from getting into the accessory socket.
- Correctly insert the plug into the accessory socket.
- Do not insert the cigarette lighter into the accessory socket.

Noise may occur on the audio playback or TV reception depending on the device connected to the accessory socket.

NOTE

To prevent discharging of the battery, do not use the socket for long periods with the engine off or idling.

7

In Case of an Emergency

Helpful information on what to do in an emergency.

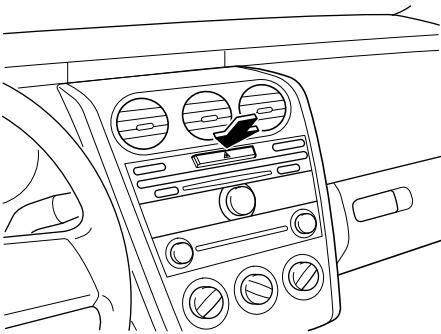
Parking in an Emergency	7-2
Parking in an Emergency	7-2
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Overheating	7-11
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Parking in an Emergency

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.



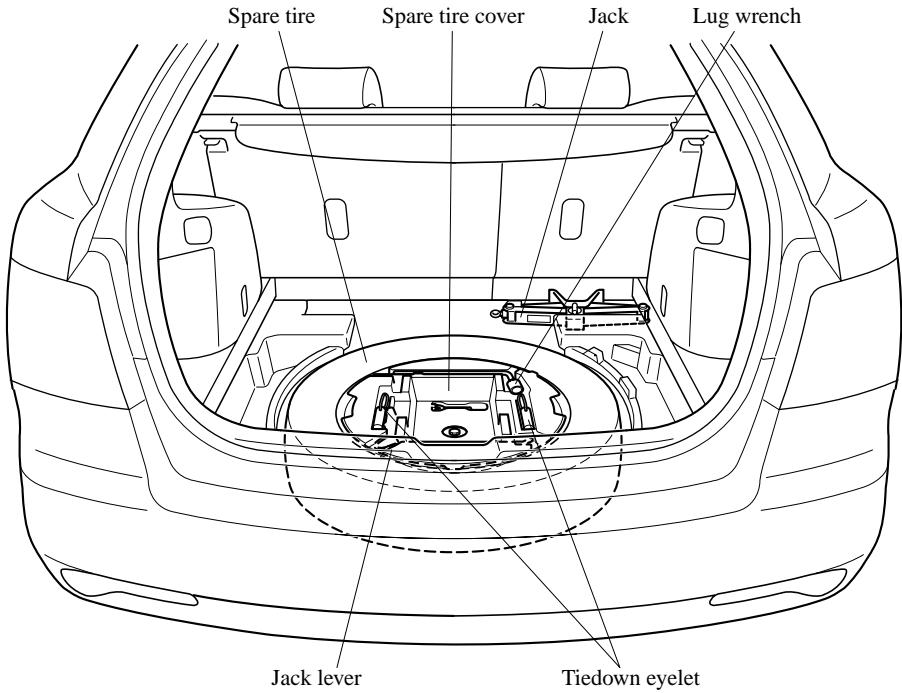
Depress the hazard warning flasher and all the turn signals will flash.

NOTE

- *The turn signals do not work when the hazard warning lights are on.*
- *Check local regulations about the use of hazard warning lights while the vehicle is being towed to verify that it is not in violation of the law.*

Spare Tire and Tool Storage

Spare tire and tools are stored in the locations illustrated in the diagram.

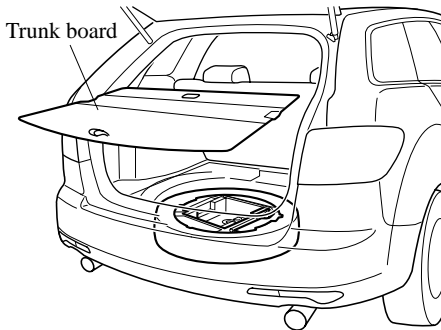


Flat Tire

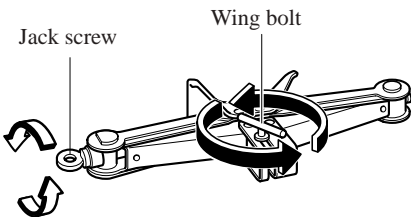
▼ Jack

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 seatback 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):

Driving with the temporary spare tire on one of the front driving wheels is dangerous. Handling will be affected. You could lose control of the vehicle, especially on ice or snow bound roads, and have an accident. Move a regular tire to the front wheel and install the temporary spare tire to the rear.

CAUTION

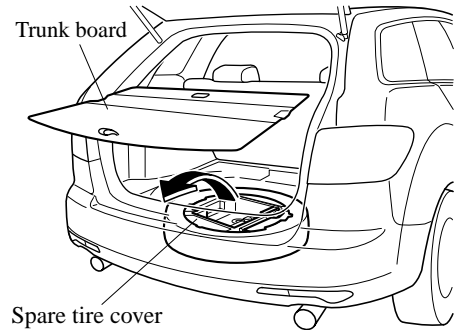
- When using the temporary spare tire, driving stability may decrease compared to when using only the conventional tire. Drive carefully.
- To avoid damage to the temporary spare tire or to the vehicle, observe the following precautions:
 - Do not exceed 80 km/h (50 mph).
 - Avoid driving over obstacles. 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 will not 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)**

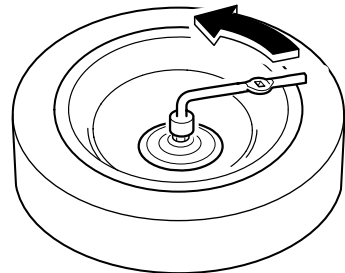
A tire pressure sensor is not installed to the temporary spare tire. The warning light will flash continuously while the temporary spare tire is being used (page 5-30).

To remove the spare tire

1. Remove the trunk board and spare tire cover.



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

**To store the spare tire**

Store the spare tire in the reverse order of removal. After storing, verify that the spare tire is stored securely.

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

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

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

Never allow anyone inside a 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.

! 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.

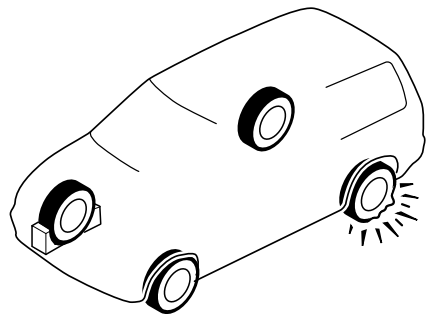
NOTE

- 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 5-32).

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.

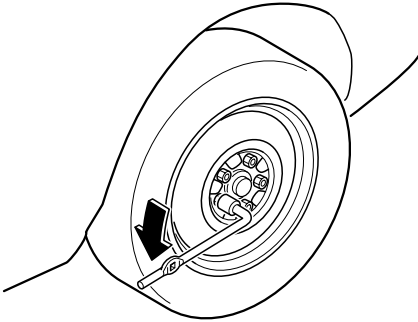


NOTE

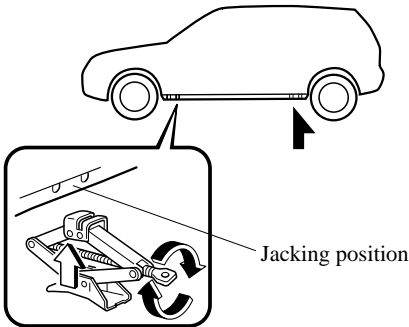
When blocking a tire, use rocks or wood blocks of sufficient size if possible to hold the tire in place.

▼ Removing a Flat Tire

1. Loosen the lug nuts by turning them counterclockwise one turn each, but do not 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**

Use only the front and rear jacking positions recommended in this manual:

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.

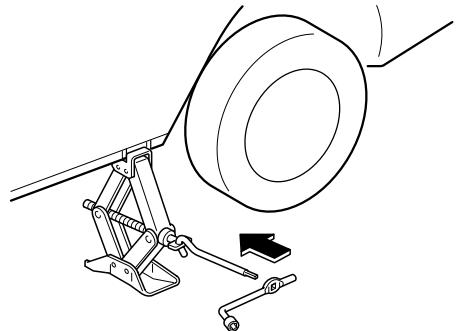
Use only the jack provided with your Mazda:

Using a jack that is not designed for your Mazda is dangerous. The vehicle could slip off the jack and seriously injure someone.

Never place objects under the jack:

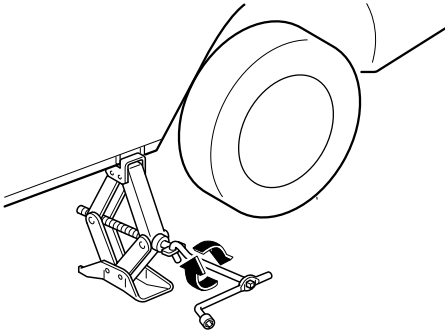
Jacking the vehicle with an object under the jack is dangerous. The jack could slip and someone could be seriously injured by the jack or the falling vehicle.

3. Insert the jack lever and attach the lug wrench to tire jack.



Flat Tire

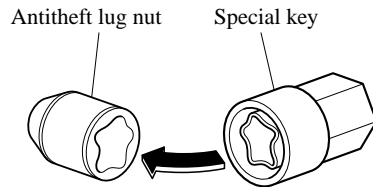
4. Turn the lug wrench clockwise and raise the vehicle high enough so that the spare tire can be installed. Before removing the lug nuts, make sure your Mazda is firmly in position and that it cannot slip or move.



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

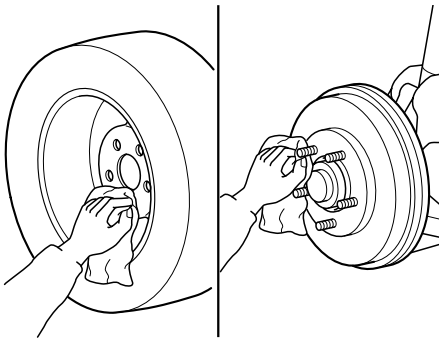
1. Obtain the key for the antitheft lug nut.
2. Place the key on top of the nut, and be sure to hold the key square to it. If you hold the key at an angle, you may damage both key and nut. Don't use a power impact wrench.
3. Place the lug wrench on top of the key and apply pressure. Turn the wrench counterclockwise.

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.

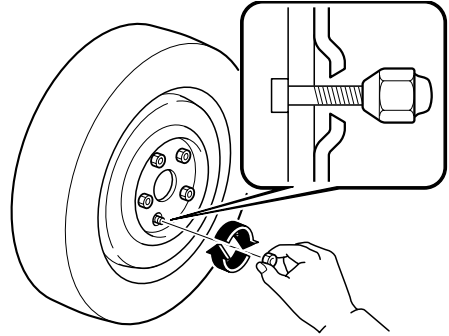
**⚠ WARNING**

Make sure the mounting surfaces of the wheel, hub and lug nuts are clean before changing or replacing tires:

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.

2. Mount the spare tire.

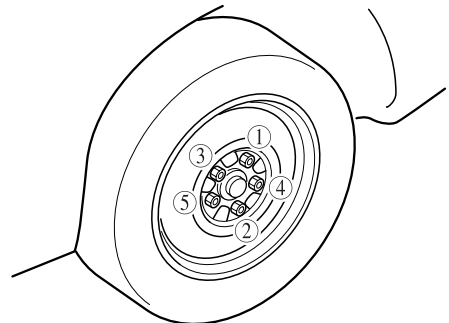
3. Install the lug nuts with the beveled edge inward; tighten them by hand.

**⚠ WARNING**

Do not apply oil or grease to lug nuts and bolts and do not tighten the lug nuts beyond the recommended tightening torque:

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.

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



Flat Tire

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)	88—118 (9—12, 65—87)

⚠ WARNING

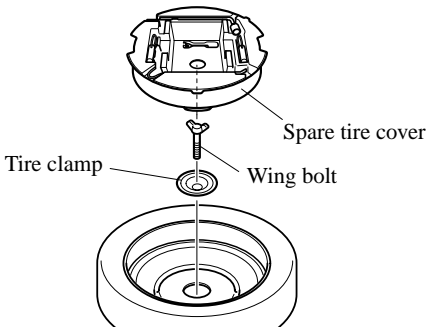
Always securely and correctly tighten the lug nuts:

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.

Be sure to reinstall the same nuts you removed or replace them with metric nuts of the same configuration:

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.

5. Remove the center cap by tapping it with the lug wrench.
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. Remove the tire blocks and store the tools, jack, and damaged tire.
8. Check the inflation pressure. Refer to the specification charts on page 10-7.
9. Have the flat tire repaired or replaced as soon as possible.

⚠ WARNING

Do not drive with any tires that have incorrect air pressure:

Driving on tires with incorrect air pressure is dangerous. Tires with incorrect pressure could affect handling and result in an accident. 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 5-30).

NOTE


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

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

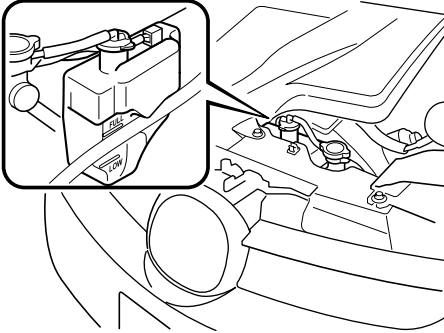
If the cooling fan does not operate while the engine is running, the engine temperature will increase. Stop the engine and call an Authorized Mazda Dealer.

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.

Overheating

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 8-22).

⚠ 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.

Starting a Flooded Engine

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

Follow this procedure:

1. If the engine does not start within five seconds on the first try, turn the key to the LOCK position, wait ten seconds and try again.
2. Depress the accelerator all the way and hold it there.
3. Turn the ignition switch to the START position and hold it there—for up to ten seconds. If the engine starts, release the key and accelerator immediately because the engine will suddenly rev up.
4. If the engine fails to start, crank it without depressing the accelerator—for up to ten seconds.

If the engine still does not start using the above procedure, have your vehicle inspected by an Authorized Mazda Dealer.

Emergency Starting

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.



Always wear eye protection when working near the battery:

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.



Wear eye protection and protective gloves to prevent contact with 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.



Always keep batteries out of the reach of children:

Allowing children to play near batteries is dangerous. Battery fluid could cause serious injuries if it gets in the eyes or on the skin.



Do not allow the positive (+) terminal to contact any other metal object that could cause sparks:

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. When working near a battery, do not allow metal tools to contact the positive (+) or negative (-) terminal of the battery.

Emergency Starting



Keep all flames, including cigarettes, and sparks away from open battery cells:

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.

Do not jump-start a frozen battery or one with a low fluid level:

Jump-starting a frozen battery or one with a low fluid level is dangerous. It may rupture or explode, causing serious injury.

Connect the negative cable to a good ground point away from the battery:

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.

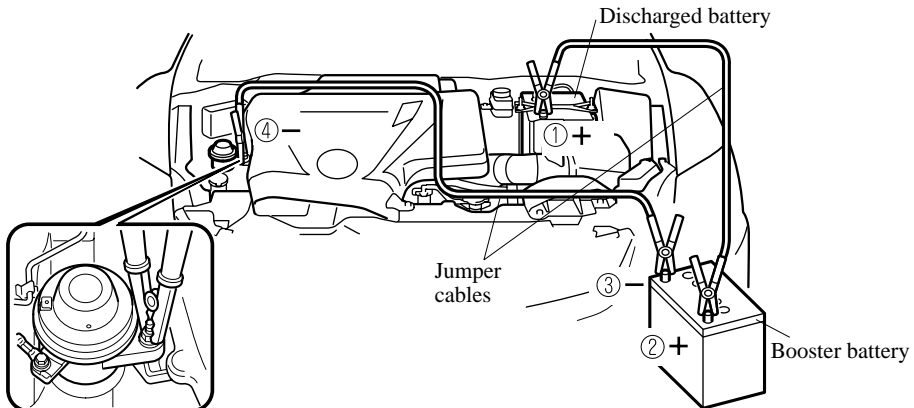
Route the jumper cables away from parts that will be moving:

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.

CAUTION

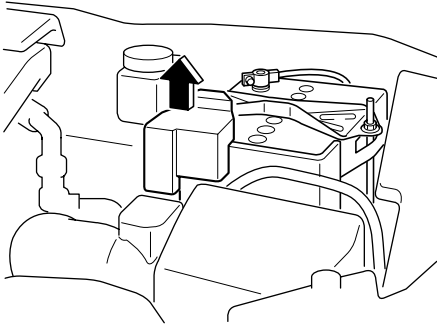
Use only a 12 V booster system. You can damage a 12 V starter, ignition system, and other electrical parts beyond repair with a 24 V power supply (two 12 V batteries in series or a 24 V motor generator set).

Connect cables in numerical order and disconnect in reverse order



Emergency Starting

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 the ground point indicated in the illustration 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.
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

Do not push-start your Mazda.

NOTE

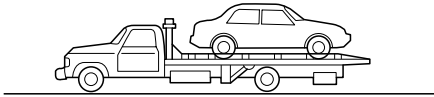
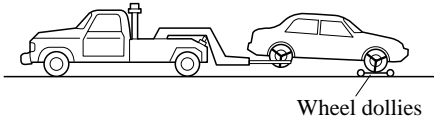
You can't start a vehicle with an automatic transaxle by pushing it.

Emergency Towing

Towing Description

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

Proper lifting and towing are necessary to prevent damage to the vehicle. 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.



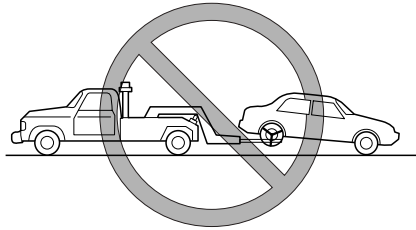
A towed 2WD vehicle should have its drive wheels (front wheels) off the ground. If excessive damage or other conditions prevent this, use wheel dollies.

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.

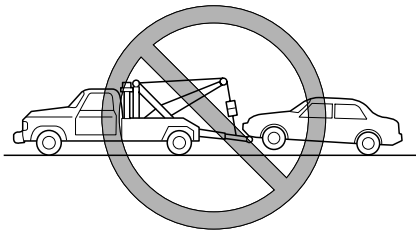
CAUTION

Do not tow the vehicle pointed backward with driving wheels on the ground. This may cause internal damage to the transaxle.



CAUTION

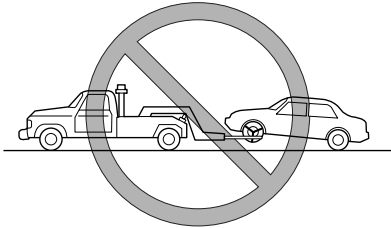
Do not tow with sling-type equipment. This could damage your vehicle. Use wheel-lift or flatbed equipment.



⚠ WARNING

Always tow a AWD vehicle with all four wheels off the ground:

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. If the drive train has been damaged, transport the vehicle on a flat bed truck.



Tiedown Hooks

⚠ CAUTION

Do not use the front and rear tiedown eyelets for towing the vehicle.

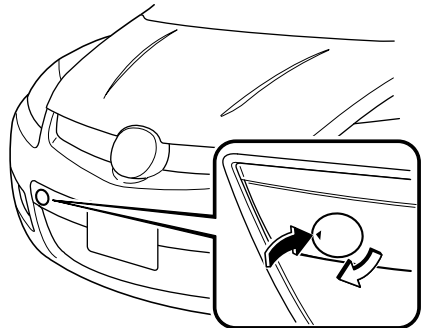
The have been designed only for securing the vehicle to a transport vessel during shipping.

Using the eyelets for any other purpose could result in the vehicle being damaged.

▼ Tiedown Hooks

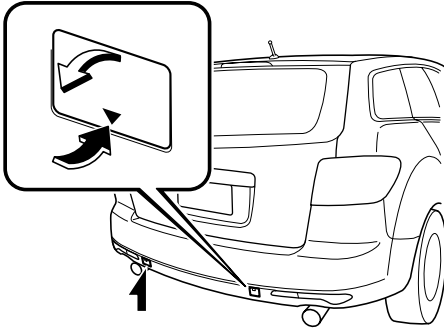
1. Remove the tiedown eyelet from the trunk (page 7-3).
2. Press the marking on the cover as shown in the figure to remove the cover.

Front



Emergency Towing

Rear



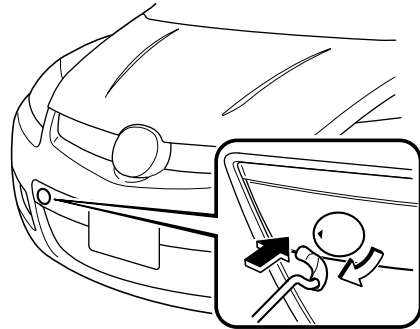
CAUTION

The cap cannot be completely removed. Do not use excessive force as it may damage the cap or scratch the painted bumper surface.

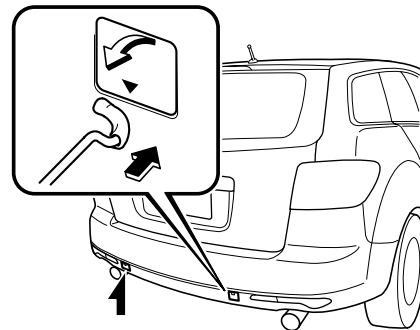
NOTE

If it is difficult to remove the tiedown eyelet, wrap the jack lever with a cloth as shown in the figure and press the marking on the cover to remove it.

Front

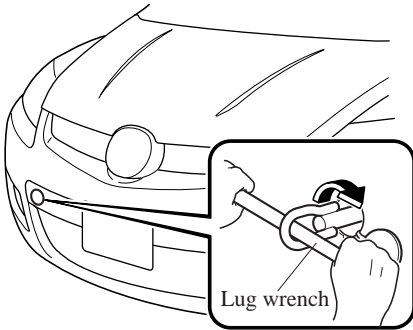


Rear

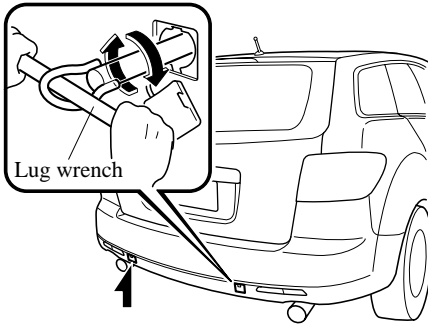


3. Securely install the tiedown eyelet using the lug wrench.

Front

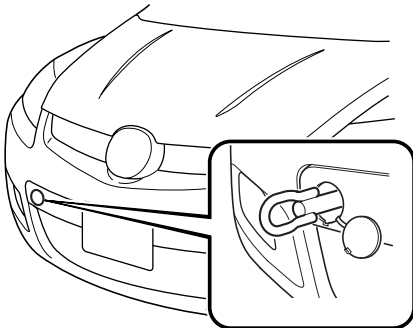


Rear

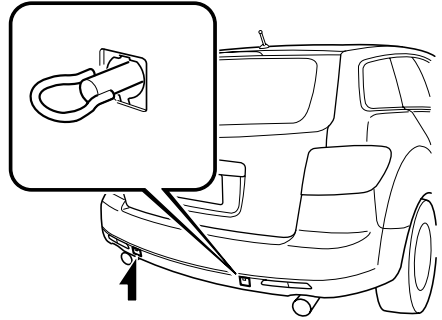


4. Hook the tying rope to the tiedown eyelet.

Front



Rear



⚠ 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.

Emergency Towing

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 7-18) and “Tiedown Hooks” (page 7-19) and carefully follow the instructions.

8

Maintenance and Care

How to keep your Mazda in top condition.

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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 are 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.

- Repeated short-distance driving
- Driving in dusty conditions
- Driving with extended use of brakes
- Driving in areas where salt or other corrosive materials are used
- Driving on rough or muddy roads
- Extended periods of idling or low-speed operation
- Driving for long periods in cold temperatures or extremely humid climates
- Driving in extremely hot conditions
- Driving in mountainous conditions continually

If any do apply, follow Schedule 2 (Canada and Puerto Rico residents follow Schedule 2).

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	Audibly inspect every 120,000 km (75,000 miles), if noisy, adjust								
Drive belts						I			
Engine oil	R	R	R	R	R	R	R	R	R
Engine oil filter	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							
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, ball joints and wheel bearing axial play					I				I
Rear differential oil (AWD)	*3*4								
Transfer oil (AWD)	*4								
Driveshaft dust boots					I				I
Bolts and nuts on chassis and body					T				T
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

Scheduled Maintenance

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									
Cabin air filter					R				R

Chart symbols:

I: Inspect: Inspect and clean, repair, adjust, fill up, 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 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 at every 45,000 km (28,100 miles).
 - a) Towing a trailer or using a car-top carrier
 - b) Driving in dusty, sandy or wet conditions
 - 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	Audibly inspect every 120,000 km (75,000 miles), if noisy, adjust												
Drive belts								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
Engine oil filter		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
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 (2.3-liter engine)	USA	Replace every 96,000 km (60,000 miles)											
	Others* ³	Replace every 120,000 km (75,000 miles)											
Spark plugs (2.5-liter engine)		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

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, ball joints and wheel bearing axial play							I						I
Rear differential oil (AWD)	*4*5												
Transfer oil (AWD)	*5												
Driveshaft dust boots							I						I
Bolts and nuts on chassis and body							T						T
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

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
AIR CONDITIONER SYSTEM													
Cabin air filter				Replace every 40,000 km (25,000 miles) or 2 years									

Chart symbols:

I: Inspect: Inspect and clean, repair, adjust, fill up, 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 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 at 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 at every 45,000 km (28,100 miles).
 - a) Towing a trailer or using a car-top carrier
 - b) Driving in dusty, sandy or wet conditions
 - 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 (Mexico)

Follow Schedule 1 if the vehicle is operated mainly where none of the following conditions apply.

- Repeated short-distance driving
- Driving in dusty conditions
- Driving with extended use of brakes
- Driving in areas where salt or other corrosive materials are used
- Driving on rough or muddy roads
- Extended periods of idling or low-speed operation
- Driving for long periods in cold temperatures or extremely humid climates
- Driving in extremely hot conditions
- Driving in mountainous conditions continually

If any do apply, follow Schedule 2.

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, 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	Audibly 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	R
Engine oil filter	R	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				R				R				R
FUEL SYSTEM													
Air filter		R		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	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	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	I
Steering operation and linkages	I	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	I
Front and rear suspension, ball joints and wheel bearing axial play		I		I		I		I		I		I	I
Rear differential oil (AWD)	*3*4												
Transfer oil (AWD)	*4												
Driveshaft dust boots		I		I		I		I		I		I	I
Bolts and nuts on chassis and body		T		T		T		T		T		T	T
Exhaust system and heat shields		I		I		I		I		I		I	I
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

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													
Cabin air filter					R				R				R

Chart symbols:

I: Inspect: Inspect and clean, repair, adjust, fill up, 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 at every 40,000 km.
 - a) Towing a trailer or using a car-top carrier
 - b) Driving in dusty, sandy or wet conditions
 - 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.

Scheduled Maintenance

▼ 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	Audibly 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	R
Engine oil filter	R	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								R				
Engine coolant level	I	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	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
Tire (Rotation)	Rotate every 10,000 km												
Tire inflation pressure and tire wear		I			I			I				I	I
Steering operation and linkages		I			I			I				I	I
Power steering fluid level		I			I			I				I	I
Front and rear suspension, ball joints and wheel bearing axial play					I				I				I
Rear differential oil (AWD)	*3*4												
Transfer oil (AWD)	*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
Washer fluid level		I			I			I				I	I
AIR CONDITIONER SYSTEM													
Cabin air filter												R	R

Chart symbols:

I: Inspect: Inspect and clean, repair, adjust, fill up, 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 at every 40,000 km.
 - a) Towing a trailer or using a car-top carrier
 - b) Driving in dusty, sandy or wet conditions
 - 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.

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	Audibly 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	R
Engine oil filter	R	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				R								R
Engine coolant level	I	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	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 (AWD)	*3*4												
Transfer oil (AWD)	*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													
Cabin air filter					R				R				R

Chart symbols:

I: Inspect: Inspect and clean, repair, adjust, fill up, 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 at every 40,000 km.
 - a) Towing a trailer or using a car-top carrier
 - b) Driving in dusty, sandy or wet conditions
 - 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

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 8-24)
- Engine coolant level (page 8-22)
- Engine oil level (page 8-21)
- Washer fluid level (page 8-28)

▼ At Least Monthly

Tire inflation pressures (page 8-37)

▼ At Least Twice a Year (For Example, Every Spring and Fall)

- Automatic transaxle fluid level (page 8-26)
- Power steering fluid level (page 8-25)

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 8-22)
- Engine oil (page 8-19)

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.

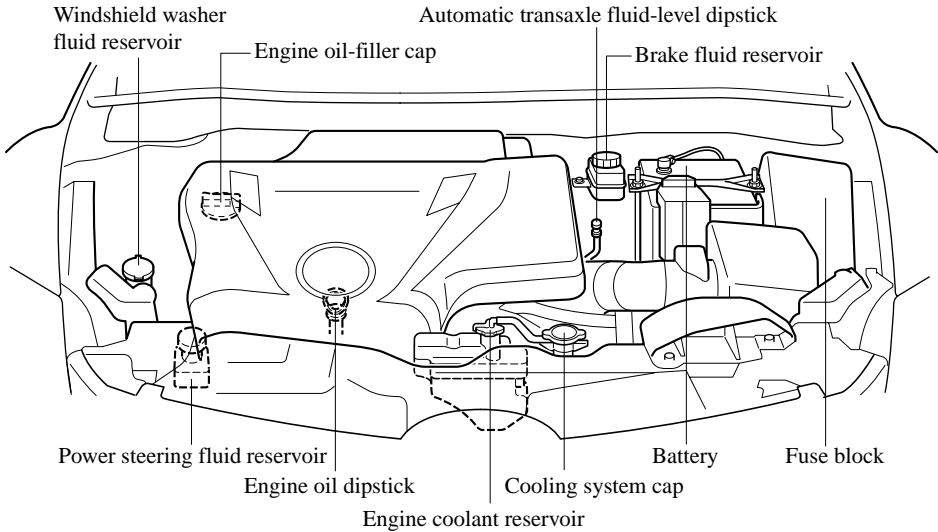
Do not leave items in the engine compartment:

After you have finished checking or doing servicing in the engine compartment, do not forget and leave items such as tools or rags in the engine compartment.

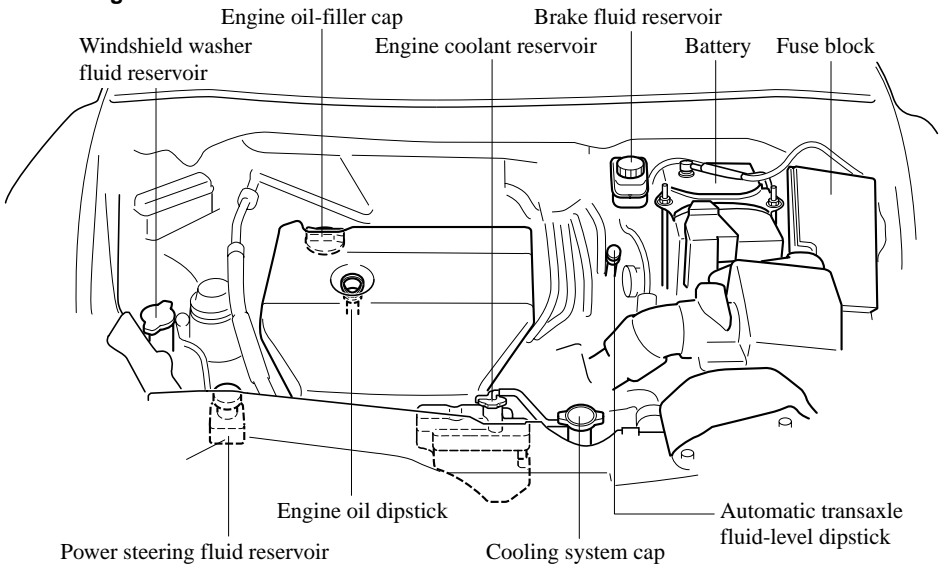
Tools or other items left in the engine compartment could cause engine damage or a fire leading to an unexpected accident.

Engine Compartment Overview

2.3-liter engine



2.5-liter engine



Engine Oil

NOTE

Changing the engine oil should be done by an Authorized Mazda Dealer.

Mazda recommends Mazda Genuine Parts and Castrol (U.S.A and Mexico). For optimal engine performance, there are certain types of engine oils and filters suitable for your vehicle. Please consult an Authorized Mazda Dealer.

▼ Recommended Oil

Use SAE 5W-20 engine oil (2.5-liter engine).

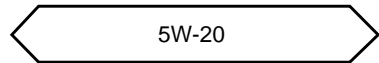
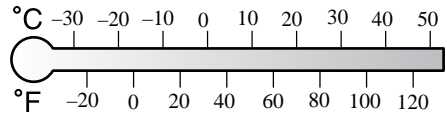
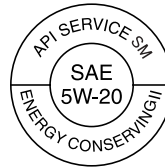
Oil container labels provide important information.

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**

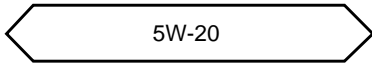
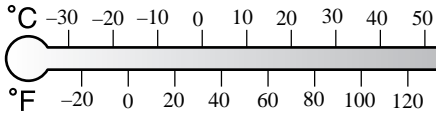
(ILSAC)

Mexico

Use SAE 5W-20 engine oil. If SAE 5W-20 engine oil is not available in your market, use SAE 5W-30 engine oil.

Owner Maintenance

The quality designation SM, or ILSAC must be on the label.



Use SAE 5W-30 engine oil (2.3-liter engine).

Oil container labels provide important information.

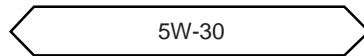
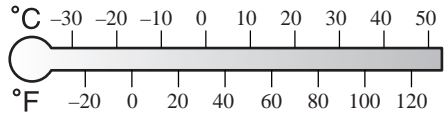
A chief contribution this type of oil makes to fuel economy is reducing the amount of fuel necessary to overcome engine friction.

U.S.A. and CANADA

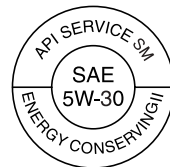


(ILSAC)

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.

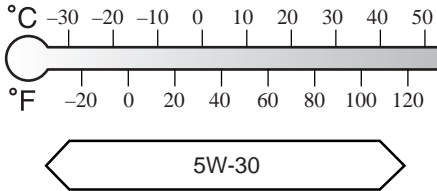


Except U.S.A. and CANADA



(ILSAC)

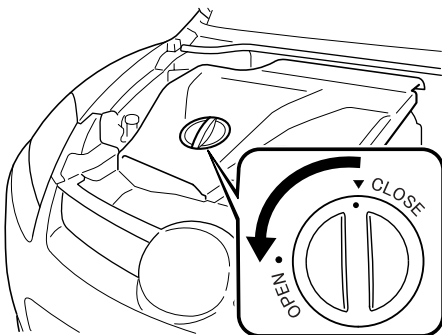
The quality designation SM, or ILSAC must be on the label.



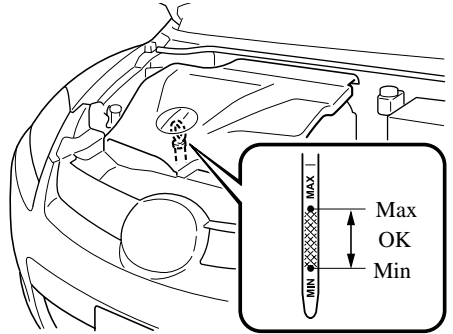
▼ Inspecting Engine Oil Level

2.3-liter engine

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.

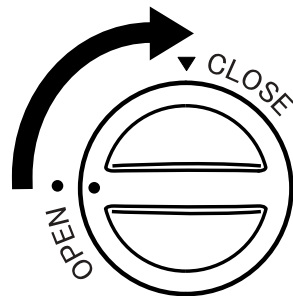


6. Pull it out again and examine the level. The level is normal if it is between MIN and MAX. If it is near or below MIN, add enough oil to bring the level to MAX.

⚠ CAUTION

Do not 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. Reinsert the dipstick fully.
9. Close the cap.



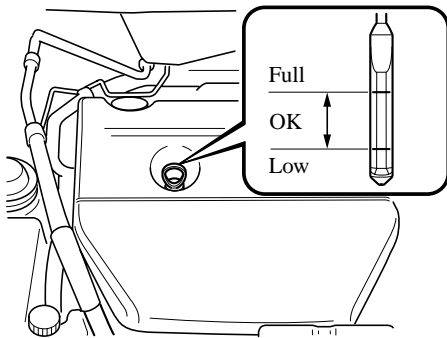
Owner Maintenance

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.

2.5-liter engine

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. Pull out the dipstick, wipe it clean, and reinsert it fully.



5. Pull it out again and examine the level. The level is normal if it is between Low and Full. If it is near or below Low, add enough oil to bring the level to Full.

CAUTION

Do not add engine oil over Full. This may cause engine damage.

6. Make sure the O-ring on the dipstick is positioned properly before reinserting the dipstick.
7. Reinsert the dipstick fully.

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.

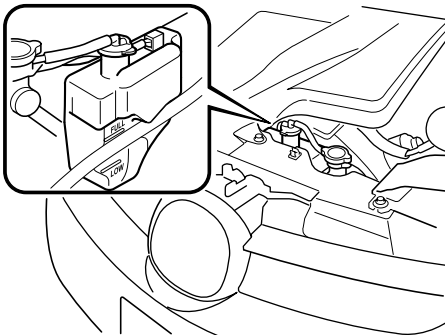
NOTE

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.

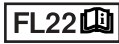
CAUTION

- *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, it is recommended to use Mazda Genuine FL22 engine coolant (page 8-3).

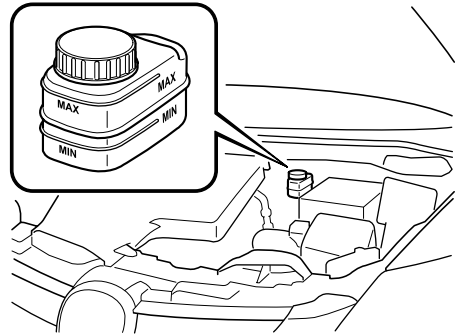


If the coolant reservoir is empty or new coolant is required frequently, consult an Authorized Mazda Dealer.

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

Be careful not to spill brake fluid on yourself or on the engine:

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.

If the brake fluid level is low, have the brakes inspected:

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 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, wash it off with water 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

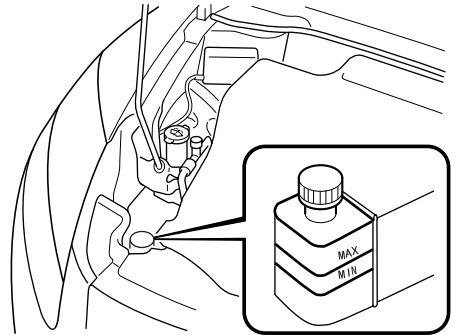
⚠ CAUTION

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 in the reservoir at each engine oil change with the engine off and cold. Add fluid if necessary; it does not require periodic changing.



The level must be kept between MAX and MIN.

Visually examine the lines and hoses for leaks and damage.

If new fluid is required frequently, consult an Authorized Mazda Dealer.

Owner Maintenance

Automatic Transaxle Fluid (ATF)

▼ Inspecting Automatic Transaxle Fluid Level

The automatic transaxle fluid level should be inspected regularly. Measure it as described below.

5AT

CAUTION

- Always check the automatic transaxle fluid level according to the following procedure. If the procedure is not done correctly, the automatic transaxle fluid level cannot be measured accurately which could lead to automatic transaxle damage.
- A low fluid level can cause transaxle slippage. Overfilling can cause foaming, loss of fluid, and transaxle malfunction.
- It is recommended to use Mazda Genuine automatic transaxle fluid (page 10-4).

1. Park on a level surface and set the parking brake firmly.
2. Make sure there is no ATF leakage from the ATF hose or the housing.
3. Shift the shift lever to the park position (P), start the engine and warm it up.

CAUTION

Do not shift the shift lever while the engine is warming up. If the ATF level is extremely low, the automatic transaxle could be damaged.

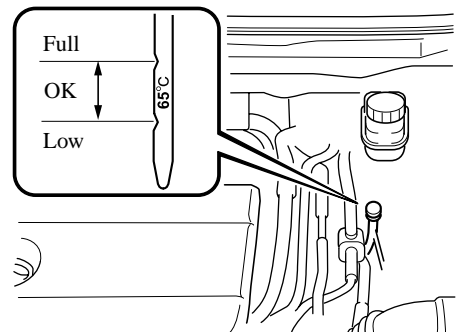
4. While the engine is still idling, pull out the dipstick and wipe it clean, and then put it back.
5. Check the ATF level. If there is no ATF adhering 5 mm from the end of the dipstick, add ATF.

CAUTION

If there is no ATF adhering to the dipstick even after the engine has been warmed up, do not drive the vehicle. Otherwise, the automatic transaxle could be damaged.

6. Shift the shift lever to each range and position, and make sure there is no abnormality.
7. Drive the vehicle on city roads for 5 km (3.1 mile) or more.
8. Park on a level surface and set the parking brake firmly.
9. Shift the shift lever to the park position (P), check the ATF level while the engine is idling, and make sure that the ATF level is within the proper level. If the ATF level is not within the proper level, add ATF.

The proper fluid level is marked on the dipstick as follows.



6AT

The volume of fluid changes with temperature. Fluid must be checked while idling the engine without driving at normal operating temperature.

CAUTION

- *Low fluid level causes transaxle slippage. Overfilling can cause foaming, loss of fluid, and transaxle malfunction.*
- *It is recommended to use Mazda Genuine automatic transaxle fluid (page 10-4).*

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

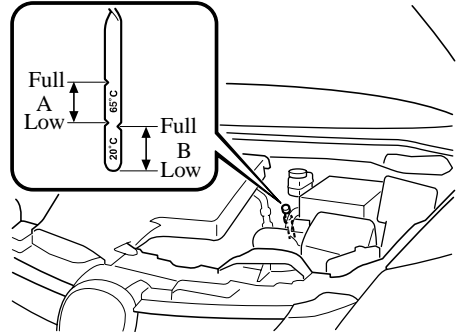
Make sure the brake pedal is applied before shifting the shift lever:

Shifting the shift lever without first depressing the brake pedal is dangerous. The vehicle could move suddenly and cause an accident.

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.*

Owner Maintenance

Fully insert the dipstick. When adding fluid, inspect with the dipstick to make sure it does not pass full.

NOTE

Inspect the fluid on both sides of the dipstick in a well lit area for an accurate reading.

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.

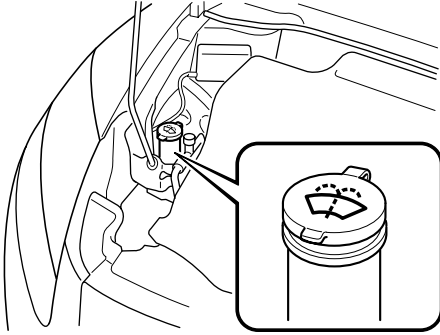
Using Washer Fluid Without Anti-freeze Protection in Cold Weather:

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.

Owner Maintenance

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.*
- *When the wiper lever is in the AUTO position and the ignition switch is in the ON position, the wipers may move automatically in the following cases:*
 - *If the windshield above the rain sensor is touched.*
 - *If the windshield above the rain sensor is wiped with a cloth.*
 - *If the windshield is struck with a hand or other object.*
 - *If the rain sensor is struck with a hand or other object from inside the vehicle.*

Be careful not to pinch hands or fingers as it may cause injury, or damage the wipers. When washing or servicing your Mazda, make sure the wiper lever is in the OFF position.

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.

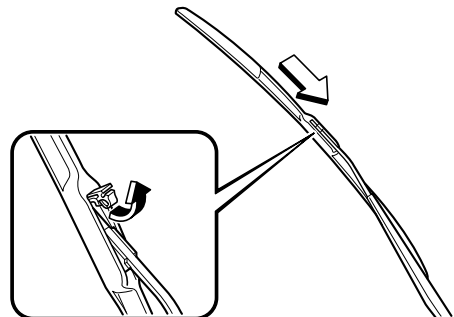
CAUTION

To prevent damage to the wiper arms and other components, don't try to sweep the wiper arm by hand.

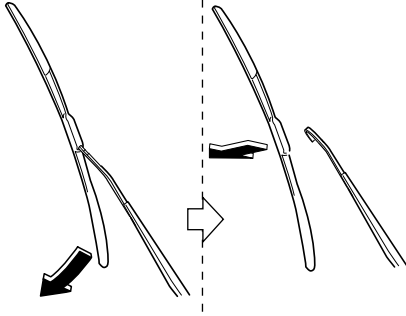
NOTE

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 slide the blade assembly in the direction of the arrow.



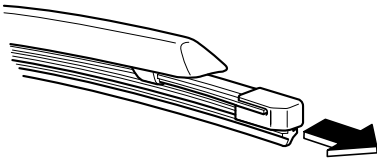
3. Tilt the blade assembly and remove it from the arm.



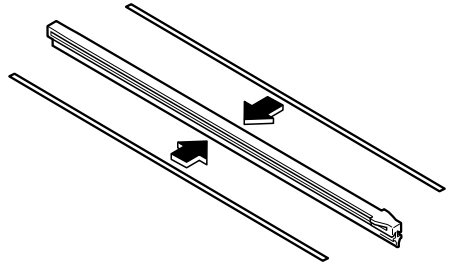
CAUTION

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 each blade rubber and install them in the new blade.

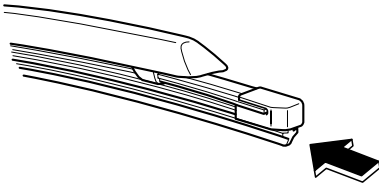


CAUTION

- 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.

Owner Maintenance

6. Carefully insert the new blade rubber. Then install the blade assembly in the reverse order of removal.



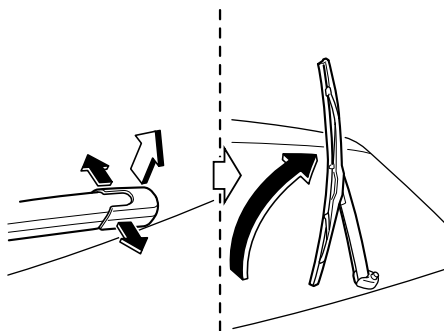
▼ Replacing Rear Window Wiper Blade

When the wiper no longer cleans well, the blade is probably worn or cracked. Replace it.

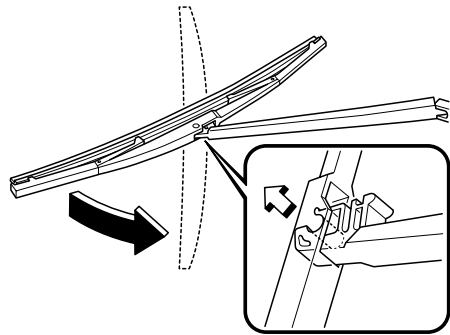
⚠ CAUTION

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.



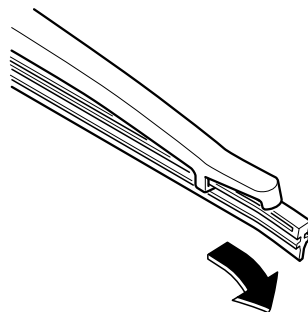
2. Firmly rotate the wiper blade to the right until it unlocks, then remove the blade.



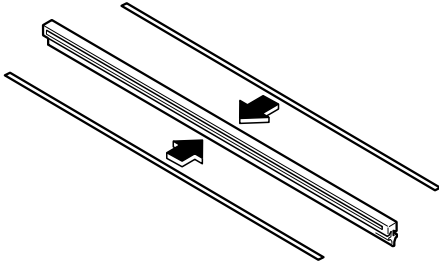
⚠ CAUTION

To prevent damage to the rear window let the wiper arm down easily, don't let it slap down on the rear window.

3. Pull down the blade rubber and slide it out of the blade holder.



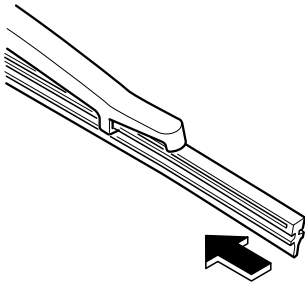
4. Remove the metal stiffeners from each blade rubber and install them in the new blade.



⚠ CAUTION

*Don't bend or discard the stiffeners.
You need to use them again.*

5. Carefully insert the new blade rubber. Then install the blade assembly in the reverse order of removal.



Owner Maintenance

Battery

WARNING

Wash hands after handling the battery and related accessories:

Battery posts, terminals and related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer and reproductive harm.



Read the following precautions carefully before using the battery or inspecting to ensure safe and correct handling:



Always wear eye protection when working near the battery:

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.



Wear eye protection and protective gloves to prevent contact with battery fluid:

Spilled battery fluid is dangerous.

Battery fluid contains SULFURIC ACID which could cause serious injuries if it gets in eyes, or on the skin or clothing. If this happens, immediately flush your eyes with water for 15 minutes or wash your skin thoroughly and get medical attention.



Always keep batteries out of the reach of children:

Allowing children to play near batteries is dangerous. Battery fluid could cause serious injuries if it gets in the eyes or on the skin.



Keep flames and sparks away from open battery cells and do not allow metal tools to contact the positive (+) or negative (-) terminal of the battery when working near a battery. Do not allow the positive (+) terminal to contact the vehicle body:

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.

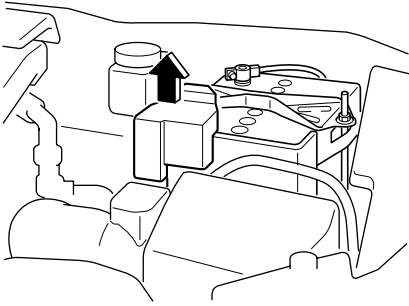


Keep all flames, including cigarettes, and sparks away from open battery cells:
Flames and sparks near open battery cells are dangerous. Hydrogen gas, produced during normal battery operation, could ignite and cause the battery to explode. An exploding battery can cause serious burns and injuries.

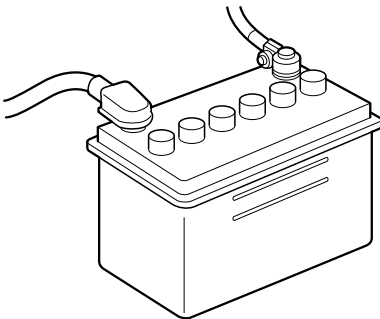
Owner Maintenance

NOTE

Remove the battery cover before performing battery maintenance.



▼ 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.
- If the vehicle will not be used for an extended time, disconnect the battery cables.

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 10-7) 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**

Always inflate the tires to the correct pressure:

Overinflation or underinflation of tires is dangerous. Adverse handling or unexpected tire failure could result in a serious accident.

Refer to specification charts on page 10-7.

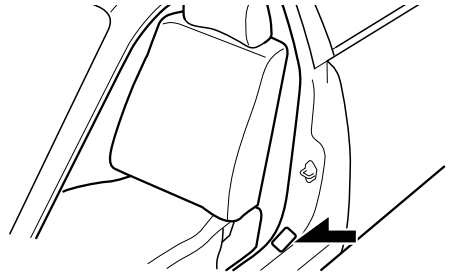
Use only a Mazda-genuine tire valve cap:

Use of a non-genuine part is dangerous as the correct tire air pressure cannot be maintained if the tire valve becomes damaged. If the vehicle is driven under this condition, the tire air pressure will decrease which could result in a serious accident. Do not use any part for the tire valve cap that is not a Mazda-genuine part.

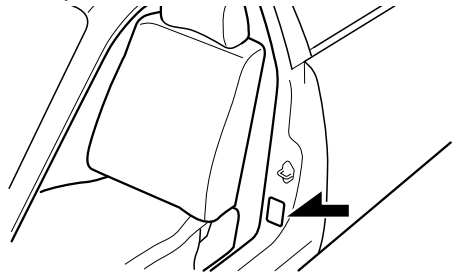
The Tire Pressure Monitoring System* does not alleviate the need to check the tire condition every day, including whether the tires all look inflated properly. Inspect all tire pressure monthly (including the spare) when the tires are cold. Maintain recommended pressures for the best ride, handling, 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 10-7).

Owner Maintenance

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.

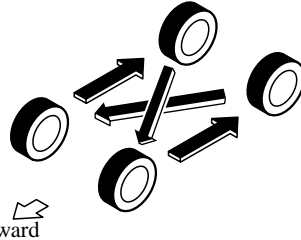
▼ Tire Rotation

! WARNING

Rotate tires periodically:

Irregular tire wear is dangerous. To equalize tread wear for maintaining good performance in handling and braking, rotate the tires 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 10-7) 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 reduced if rotated from side to side.

⚠ 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.

▼ Replacing a Tire

⚠ WARNING

Always use tires that are in good condition:

Driving with worn tires is dangerous. Reduced braking, steering, and traction could result in an accident.

Replace all four tires at the same time:

Replacing just one tire is dangerous. It could cause poor handling and poor braking resulting in loss of vehicle control. Mazda strongly recommends that you replace all four tires at the same time.

⚠ 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.

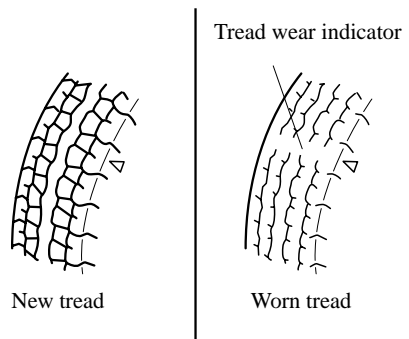
NOTE

(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 5-32.
- Be sure to install the tire pressure sensors whenever tires or wheels are replaced.
Refer to Tires and Wheels on page 5-32.

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.

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 9-24.

Owner Maintenance

▼ 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 which is lighter and smaller than a conventional tire. This tire 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 bar, 60 psi).

(Mexico)

Maintain its pressure at 250 kPa (2.5 bar, 36 psi).

⚠ CAUTION

- *Do not 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 8-39).*

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 9-24.

▼ Replacing a Wheel

⚠ WARNING

Always use wheels of the correct size on your vehicle:

Using a wrong-sized wheel is dangerous. Braking and handling could be affected, leading to loss of control and an accident.

⚠ 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
- **(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

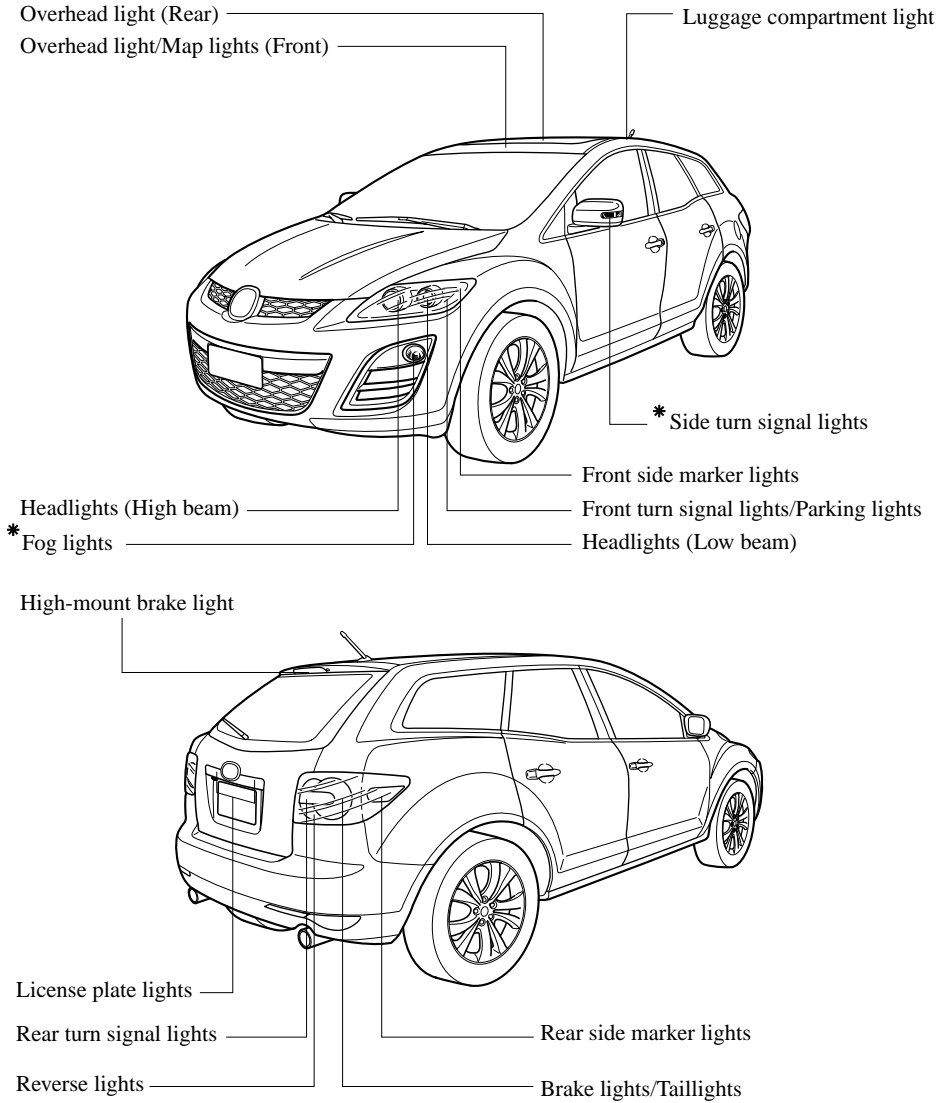
Be sure to install the tire pressure sensors whenever tires or wheels are replaced. Refer to Tires and Wheels on page 5-32.

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.

Owner Maintenance

Light Bulbs



* Some models.

⚠ 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.

Never touch the glass portion of a halogen bulb with your bare hands and always wear eye protection when handling or working around the 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.

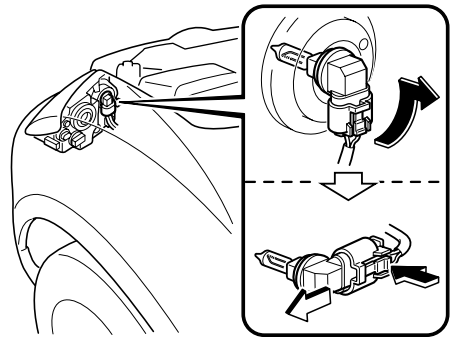
Always keep halogen bulbs out of the reach of children:

Playing with a halogen bulb is dangerous. Serious injuries could be caused by dropping a halogen bulb or breaking it some other way.

▼ Replacing Exterior Light Bulbs**Replacing a headlight bulb****High-beam bulb**

1. Make sure the ignition is switched 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.

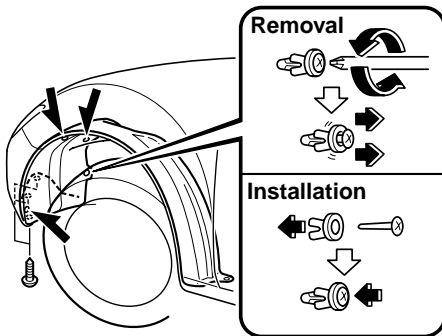
The bulbs must be replaced at an Authorized Mazda Dealer.

(Halogen bulb)

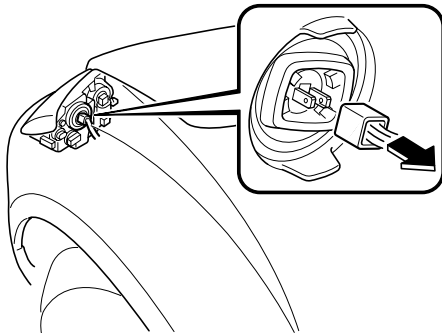
1. Make sure the headlight switch is off.

Owner Maintenance

2. If you are changing the right row-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 row-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.

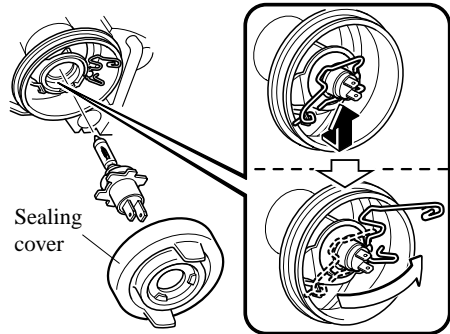


4. Detach the electrical connector from the bulb by pulling it to the rear.

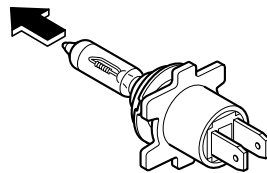


5. Pull off the sealing cover.
6. Unhook the bulb retaining spring.

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.



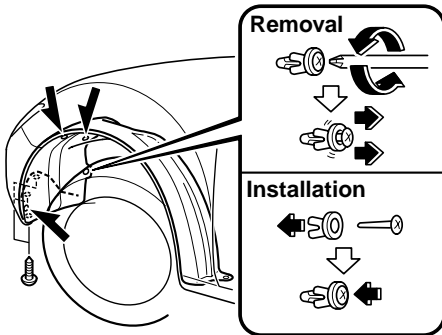
9. Replace the bulb.
10. Install the new bulb in the reverse order of removal.

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.

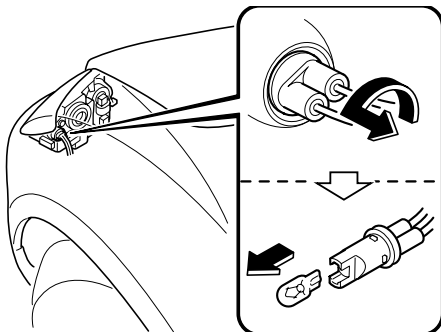
Front side marker lights, Front turn signal lights/Parking lights

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 the 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.

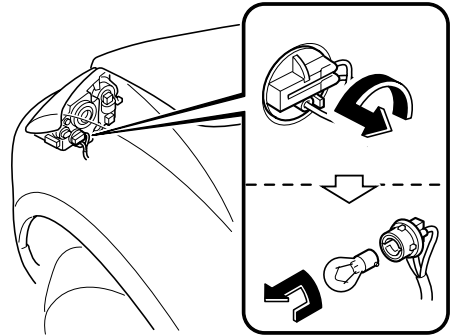


4. Turn the socket and bulb assembly counterclockwise and remove it.
5. Disconnect the bulb from the socket.

Front side marker lights



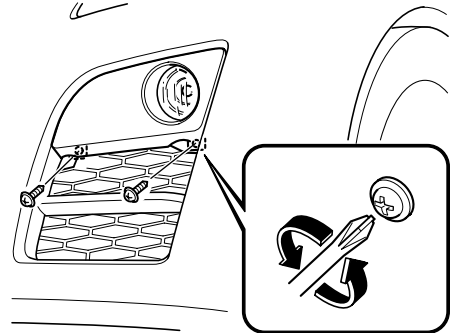
Front turn signal lights/Parking lights



6. Install the new bulb in the reverse order of removal.

Fog lights*

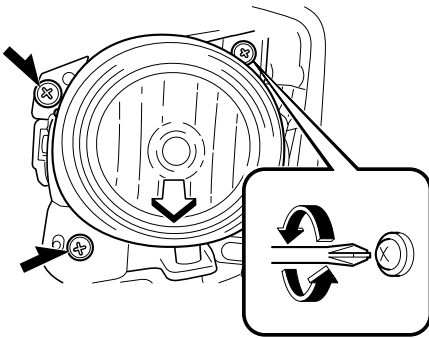
1. Make sure the ignition is switched off, and the headlight switch is off.
2. Loosen the screws securing the fog light cover.
3. Remove the fog light cover.



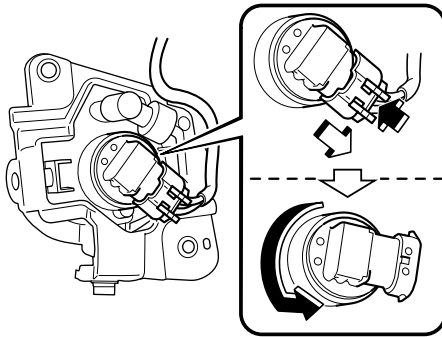
4. Loosen the screws securing the fog light unit.

Owner Maintenance

5. Remove the fog light unit.



6. Press the tab on the bulb socket and disconnect the connector cord.
7. Rotate the bulb socket counterclockwise as shown in the figure and remove it.



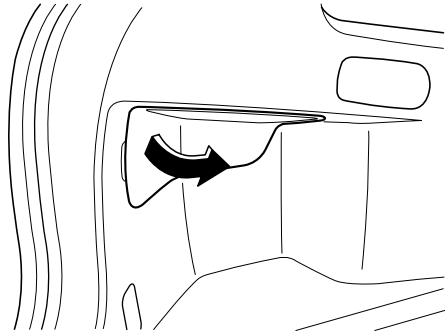
8. Install the new bulb in the reverse order of removal.

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.

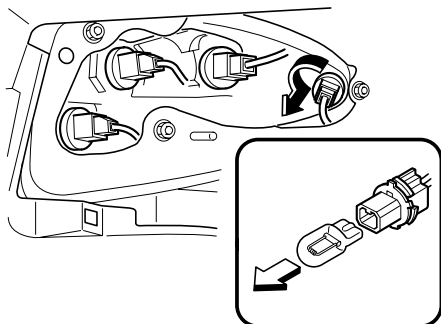
Brake lights/Taillights, Rear turn signal lights, Reverse lights, Rear side-marker lights

1. Make sure the ignition is switched off, and the headlight switch is off.
2. Remove the cover.

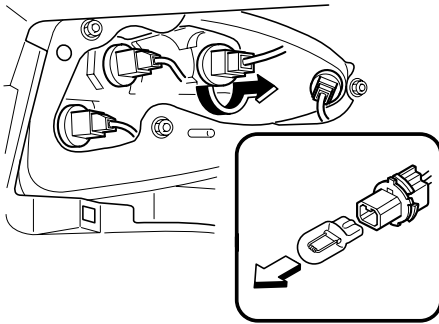


3. Turn the socket and bulb assembly counterclockwise and remove it.
4. Disconnect the bulb from the socket.

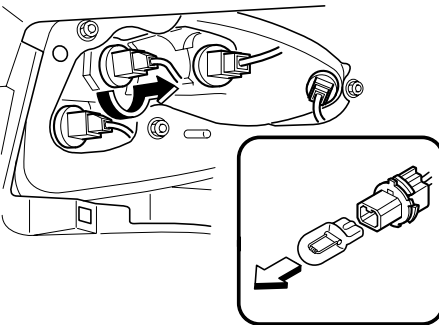
Rear side-marker lights



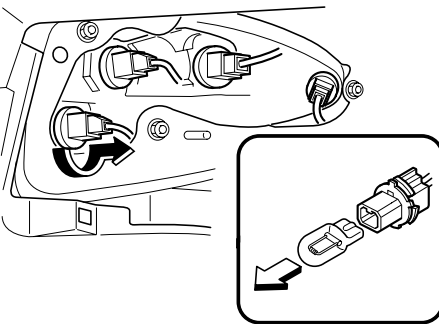
Brake lights/Taillights



Rear turn signal lights



Reverse lights



5. Install the new bulb in the reverse order of removal.

NOTE

To replace the bulb, contact an Authorized Mazda Dealer.

High-mount brake light, Side turn signal lights*

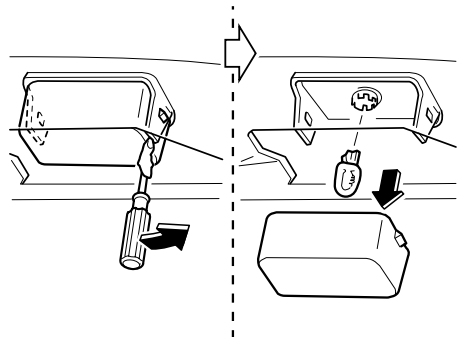
Due to the complexity and difficulty of the procedure, the LED bulbs should be replaced by an Authorized Mazda Dealer.

NOTE

LED bulb replacement is not possible. The rear combination component must be replaced.

License plate lights

1. Make sure the ignition is switched off, and the headlight switch is off.
2. 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.
3. Disconnect the bulb by pulling it out.



4. Install the new bulb in the reverse order of removal.

Owner Maintenance

▼ Replacing Interior Light Bulbs

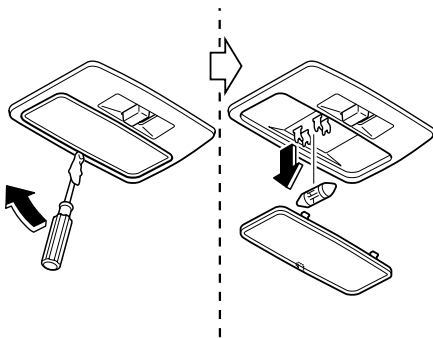
Overhead light/Map lights (Front)

Due to the complexity and difficulty of the procedure, the bulbs should be replaced by an Authorized Mazda Dealer.

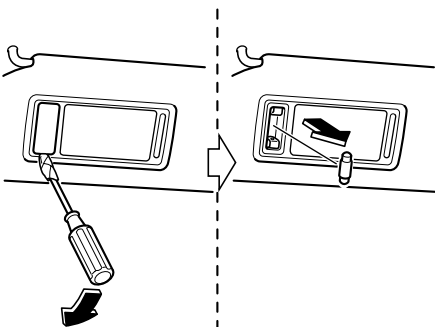
Overhead light (Rear), Luggage compartment light, Vanity mirror lights

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.

Overhead light (Rear), Luggage compartment light



Vanity mirror lights



3. Install the new bulb in the reverse order of removal.

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.

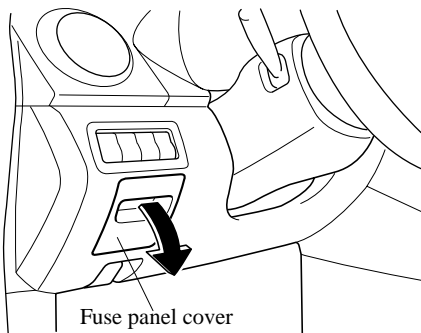
If the same fuse blows again, avoid using that system and consult an Authorized Mazda Dealer as soon as possible.

▼ Fuse Replacement

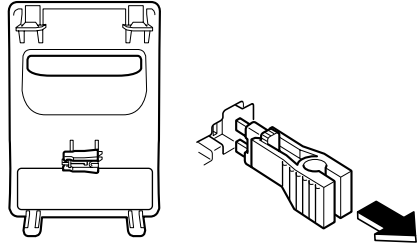
Replacing the fuses on the driver's side

If the electrical system does not work, first inspect the fuses on the driver's side.

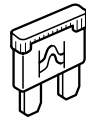
1. Turn off the ignition switch and other switches.
2. Open the fuse panel cover.



3. Pull the fuse straight out with the fuse puller provided on the inside of the cover for the fuse panel.



4. Inspect the fuse and replace it if it's blown.



Normal



Blown

5. Insert a new fuse of the same amperage rating, and make sure it fits tightly. If it does not fit tightly, have an expert install it. We recommend an Authorized Mazda Dealer. 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.

CAUTION

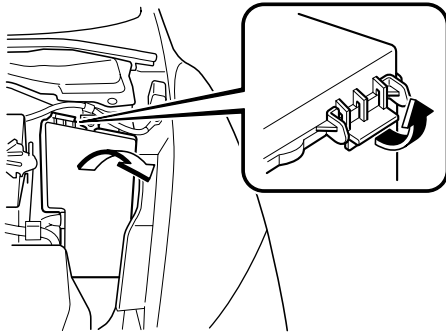
Always replace a fuse with one of the same rating. Otherwise you may damage the electric system.

Owner Maintenance

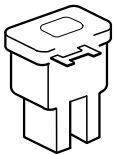
Replacing the fuses under the hood

If the headlights or other electrical components do not work and the fuses in the cabin are normal, inspect the fuse block under the hood. If a fuse is blown, it must be replaced. Follow these steps:

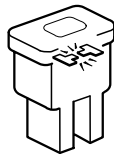
1. Turn off the ignition switch and all other switches.
2. Remove the fuse block cover.



3. If any fuse but the MAIN fuse is blown, replace it with a new one **of the same amperage rating.**



Normal



Blown

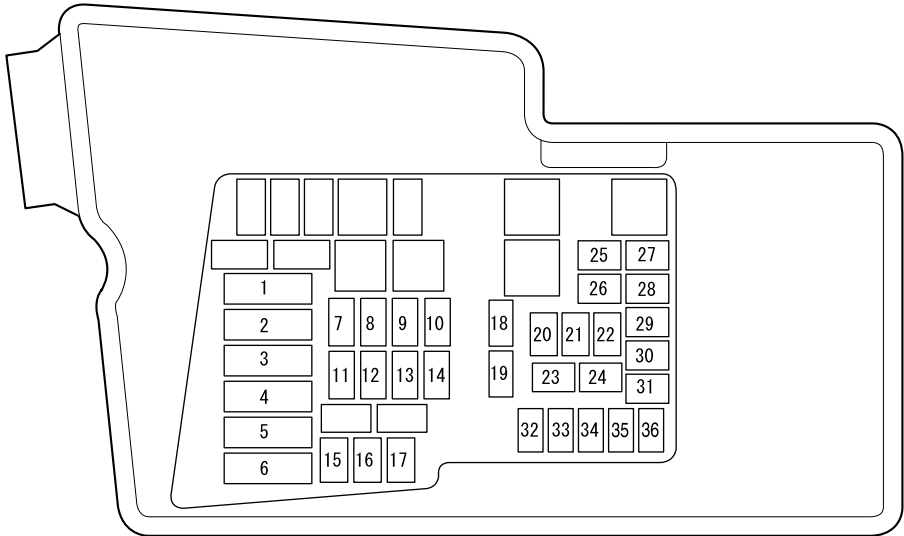
⚠ WARNING

Do not replace the main fuse by yourself. Have an Authorized Mazda Dealer perform the replacement:

Replacing the fuse by yourself is dangerous because the MAIN fuse is a high current fuse. Incorrect replacement could cause an electrical shock or a short circuit resulting in a fire.

▼ **Fuse Panel Description**

Fuse block (Engine compartment)



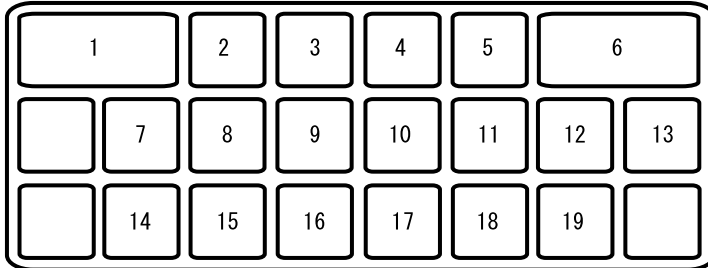
DESCRIPTION		FUSE RATING	PROTECTED COMPONENT
1	PCS	—	—
2	BLOWER	40 A	Blower motor
3	FUEL PUMP	30 A	Fuel pump
4	FAN 2	40 A	Cooling fan sub
5	IG KEY 1	40 A	Ignition system
6	FAN 1	40 A	Cooling fan main
7	P.SEAT (D)	30 A	Power seat
8	INJ 1	30 A	Injector*
9	P.SEAT (P)	30 A	Power seat
10	BOSE	30 A	Bose® audio system*
11	ENGINE	30 A	Engine control system
12	D.LOCK	20 A	Power door locks
13	P.WIND	30 A	Power windows
14	IG KEY 2	40 A	Ignition system
15	ABS 1	40 A	ABS
16	ABS 2	20 A	ABS
17	DSC	—	—

*Some models.

Owner Maintenance

DESCRIPTION		FUSE RATING	PROTECTED COMPONENT
18	H/L CLEAN/ROOF	20 A	Headlight cleaner, Moonroof*
19	DEF	30 A	Rear window defroster
20	TNS	15 A	Parking lights, License plate lights, Illuminated entry system
21	A/C	10 A	Air conditioner
22	TRAILER/TCM	20 A	TCM*
23	HEAD HI RH	15 A	Headlight high beam (RH)
24	HEAD HI LH	15 A	Headlight high beam (LH)
25	HEAD LO RH	15 A	Headlight low beam (RH)
26	HEAD LO LH	15 A	Headlight low beam (LH)
27	ETC	10 A	Accelerator position sensor*
28	ENG BAR 2	7.5 A	PCM
29	ECM	10 A	Engine control system
30	INJ 2	10 A	Injector*
31	ENG BAR 1	15 A	Air flow sensor, EGR control valve
32	FOG	15 A	Fog lights*
33	STOP	10 A	Brake lights
34	HORN	20 A	Horn
35	ENG B+	25 A	PCM
36	HAZARD	10 A	Hazard warning flashers, Turn signals

Fuse block (Driver's side)



DESCRIPTION		FUSE RATING	PROTECTED COMPONENT
1	P.WIND 2	30 A	Power windows
2	OUTLET 1	15 A	Accessory Socket
3	P.MIR	7.5 A	Power control mirror
4	OUTLET 2	15 A	Accessory Socket
5	SCR	—	—
6	WIPER	20 A	Windshield wiper and washer
7	M.DEF	7.5 A	Mirror defroster*
8	P/ST/ENGBAR 3	7.5 A	Air flow sensor, Power steering, EGR control valve
9	P.WIND	15 A	Power windows
10	A/B	7.5 A	Advance Restraint System
11	ENGINE	15 A	Engine control system
12	METER	15 A	Instrument cluster
13	ILLUMI	10 A	Dashboard illumination
14	ROOM	15 A	Audio system, Overhead light
15	R.FOG	—	—
16	SIREN	—	—
17	SEAT	20 A	Seat warmer*
18	A/C	10 A	Air conditioner

*Some models.

Owner Maintenance

DESCRIPTION		FUSE RATING	PROTECTED COMPONENT
19	R.WIP	10 A	Rear window wiper and washer

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

⚠ CAUTION

When the wiper lever is in the AUTO position and the ignition switch is in the ON position, the wipers may move automatically in the following cases:

- *If the windshield above the rain sensor is touched.*
- *If the windshield above the rain sensor is wiped with a cloth.*
- *If the windshield is struck with a hand or other object.*
- *If the rain sensor is struck with a hand or other object from inside the vehicle.*

Be careful not to pinch hands or fingers as it may cause injury, or damage the wipers. When washing or servicing your Mazda, make sure the wiper lever is in the OFF position.

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.
- Do not use abrasive cleansers or wax that contain abrasives.

Appearance Care

CAUTION

- *Do not 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.

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. Do not allow soap to dry on the finish.

After washing the vehicle, dry it with a clean chamois to prevent water spots from forming.

WARNING

Dry wet brakes 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.

When using a high water pressure car wash

High water temperature and high water pressure car washers are available depending on the type of car wash machine. If the car washer nozzle is put too close to the vehicle, the force of the spray could damage or deform the molding, affect the sealability of parts, and allow water to penetrate the interior. Keep a sufficient space (30 cm or more) between the nozzle and the vehicle. In addition, do not spend too much time spraying the same area of the vehicle, and be very careful when spraying between gaps in doors and around windows.

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 does not 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.

Appearance Care

▼ Underbody Maintenance

Road chemicals and salt used for ice and snow removal and solvents used for dust control may collect on the underbody. If not removed, they will speed up rusting and deterioration of such underbody parts as fuel lines, frame, floor pan, and exhaust system, even though these parts may be coated with anti-corrosive material.

Thoroughly flush the underbody and wheel housings with lukewarm or cold water at the end of each winter. Try also to do this every month.

Pay special attention to these areas because they easily hide mud and dirt. **It will do more harm than good to wet down the road grime without removing it.**

The lower edges of doors, rocker panels, and frame members have drain holes that should not be clogged. Water trapped there will cause rusting.

WARNING

Dry wet brakes 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.

▼ 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

- *Do not 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.*

(With Tire Pressure Monitoring System)

Check special requirements for Tire Pressure Monitoring System.

Refer to Tires and Wheels on page 5-32.

▼ Plastic Part Maintenance

When cleaning the plastic lenses of the lights, do not use gasoline, kerosene, rectified spirit, paint, thinner, highly acidic detergents, or strongly alkaline detergents. Otherwise, these chemical agents can discolor or damage the surfaces resulting in a significant loss in functionality. If plastic parts become inadvertently exposed to any of these chemical agents, flush with water immediately.

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 is not 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.

Appearance Care

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.

Multi information display edge panel*, Panel beside the multi information display*

Multi information display edge panel and panel beside the multi information display are fitted with panels that have been treated with a special coating that resists scratching.

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

Have an Authorized Mazda Dealer replace damaged seat belts immediately:

Using damaged seat belts is dangerous. In a collision, damaged belts cannot provide adequate protection.

▼ 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.

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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” located on the “Inside Mazda” tab, or at the bottom of the page at www.mazdaUSA.com

By phone at: 1 (800) 222-5500

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.

▼STEP 3: Contact Better Business Bureau (BBB)

Mazda North American Operations realizes that mutual agreement on some issues may not be possible. As a final step to ensure that your concerns are being fairly considered, Mazda North American Operations has agreed to participate in a dispute settlement program administered by the Better Business Bureau (BBB) system, at no cost to you the consumer.

BBB AUTO LINE works with consumers and the manufacturer in an attempt to reach a mutually acceptable resolution of any warranty related concerns. If the BBB is not able to facilitate a settlement they will provide an informal hearing before an arbitrator.

You are required to resort to BBB AUTO LINE before exercising rights or seeking remedies under the Federal Magnuson-Moss Warranty Act, 15 U.S.C. § 2301 et seq. To the extent permitted by the applicable state "Lemon Law", you are also required to resort to BBB AUTO LINE before exercising any rights or seeking remedies under the "Lemon Law". If you choose to seek remedies that are not created by the Magnuson-Moss Warranty Act or the applicable state "Lemon Law", you are not required to first use BBB AUTO LINE.

Customer Assistance

The whole process normally takes 40 days or less. The arbitration decision is not binding on you or Mazda else you accept the decision. For more information about BBB AUTO LINE, including current eligibility standards, please call 1-800-955-5100 or visit the BBB website at www.lemonlaw.bbb.org.

Being truly committed to customer satisfaction is more than a phrase with Mazda. We hope to satisfy every customer directly, but if there is ever a question about our decision, Mazda believes in providing a fast, fair and free method such as the BBB AUTO LINE to ensure Mazda delivers on our commitment to do the right thing for our customers!

▼ California Customers

1. Mazda North American Operations participates in BBB AUTO LINE, a mediation/arbitration program administered by the Council of Better Business Bureaus [4200 Wilson Boulevard, Arlington, Virginia 22203] through local Better Business Bureaus. BBB AUTO LINE and Mazda have been certified by the Arbitration Certification Program of the California Department of Consumer Affairs.
2. If you have a problem arising under a Mazda written warranty, we encourage you to bring it to our attention. If we are unable to resolve it, you may file a claim with BBB AUTO LINE. Claims must be filed with BBB AUTO LINE within six (6) months after the expiration of the warranty.
3. To file a claim with BBB AUTO LINE, call 1-800-955-5100. There is no charge for the call.
4. In order to file a claim with BBB AUTO LINE, you will have to provide your name and address, the brand name and vehicle identification number (VIN) of your vehicle, and a statement of the nature of your problem or complaint. You will also be asked to provide: the approximate date of your acquisition of the vehicle, the vehicle's current mileage, the approximate date and mileage at the time any problem(s) were first brought to the attention of Mazda or one of our dealers, and a statement of the relief you are seeking.
5. BBB AUTO LINE staff may try to help resolve your dispute through mediation. If mediation is not successful, or if you do not wish to participate in mediation, claims within the program's jurisdiction may be presented to an arbitrator at an informal hearing. The arbitrator's decision should ordinarily be issued within 40 days from the time your complaint is filed; there may be a delay of 7 days if you did not first contact Mazda about your problem, or a delay of up to 30 days if the arbitrator requests an inspection/report by an impartial technical expert or further investigation and report by BBB AUTO LINE.

6. You are required to use BBB AUTO LINE before asserting in court any rights or remedies conferred by California Civil Code Section 1793.22. You are also required to use BBB AUTO LINE before exercising rights or seeking remedies created by Title I of the Magnuson-Moss Warranty Act, 15 U.S.C. sec. 2301 et seq. If you choose to seek redress by pursuing rights and remedies not created by California Civil Code Section 1793.22 or Title I of the Magnuson-Moss Warranty Act, resort to BBB AUTO LINE is not required by those statutes.
7. California Civil Code Section 1793.2 (d) requires that, if Mazda or its representative is unable to repair a new motor vehicle to conform to the vehicle's applicable express warranty after a reasonable number of attempts, Mazda may be required to replace or repurchase the vehicle. California Civil Code Section 1793.22 (b) creates a presumption that Mazda has had a reasonable number of attempts to conform the vehicle to its applicable express warranties if, within 18 months from delivery to the buyer or 18,000 miles on the vehicle's odometer, whichever occurs first, one or more of the following occurs:
 - The same nonconformity [a failure to conform to the written warranty that substantially impairs the use, value or safety of the vehicle] results in a condition that is likely to cause death or serious bodily injury if the vehicle is driven **AND** the nonconformity has been subject to repair two or more times by Mazda or its agents **AND** the buyer or lessee has directly notified Mazda of the need for the repair of the nonconformity; OR
 - The same nonconformity has been subject to repair 4 or more times by Mazda or its agents **AND** the buyer has notified Mazda of the need for the repair of the nonconformity; OR
 - The vehicle is out of service by reason of repair of nonconformities by Mazda or its agents for a cumulative total of more than 30 calendar days after delivery of the vehicle to the buyer.

NOTICE TO Mazda AS REQUIRED ABOVE SHALL BE SENT TO THE FOLLOWING ADDRESS:

Mazda North American Operations
7755 Irvine Center Drive
Irvine, CA 92618
ATTN: Customer Mediation

8. The following remedies may be sought in BBB AUTO LINE: repairs, reimbursement for money paid to repair a vehicle or other expenses incurred as result of a vehicle nonconformity, repurchase or replacement of your vehicle, and compensation for damages and remedies available under Mazda's written warranty or applicable law.
9. The following remedies may **not** be sought in BBB AUTO LINE: punitive or multiple damages, attorneys' fees, or consequential damages other than as provided in California Civil Code Section 1794 (a) and (b).

Customer Assistance

10. You may reject the decision issued by a BBB AUTO LINE arbitrator. If you reject the decision, you will be free to pursue further legal action. The arbitrator's decision and any findings will be admissible in a court action.
11. If you accept the arbitrator's decision, Mazda will be bound by the decision, and will comply with the decision within a reasonable time not to exceed 30 days after we receive notice of your acceptance of the decision.
12. Please call BBB AUTO LINE at 1-800-955-5100 for further details about the program.

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 9-9).

▼ 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.

Customer Assistance

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

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 (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

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

Customer Assistance

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)

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

Mazda Importer/Distributors

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

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.

Warranty

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.

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.

Warranty

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.

Registering Your Vehicle in A Foreign Country (Except United States and Canada)

Registering your vehicle in a foreign country may be problematic depending on whether it meets the specific emission and safety standards of the country in which the vehicle will be driven. Consequently, your vehicle may require modifications at personal expense in order to meet the regulations.

In addition, you should be aware of the following issues:

Satisfactory vehicle servicing may be difficult or 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.

Warranty

Add-On Non-Genuine Parts and Accessories

Non-genuine parts and accessories for Mazda vehicles can be found in stores. These may fit your vehicle, but they are not approved by 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

Always consult an Authorized Mazda Dealer before you install 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.

Be very careful in choosing and installing add-on electrical equipment, such as mobile telephones, two-way radios, stereo systems, and car alarm systems:

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/TCS/DSC inactivation, or a fire in the vehicle.

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 Warning

WARNING

Please comply with the legal regulations concerning the use of communication equipment in vehicles in your State or Province:

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.

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

Keep your vehicle's tires properly inflated and not overloaded:

Driving with improperly inflated or overloaded tires is dangerous. Excessive speed, underinflation, or excessive loading, either separately or in combination, can cause heat buildup and possible tire failure. The temperature grade for this tire is established for a tire that is properly inflated and not overloaded.

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.

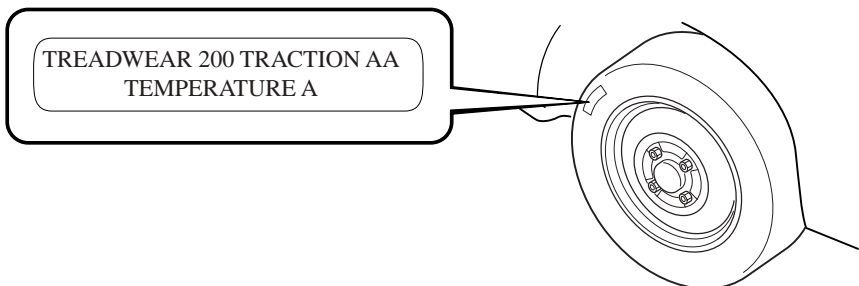
▼ Uniform Tire Quality Grading

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)



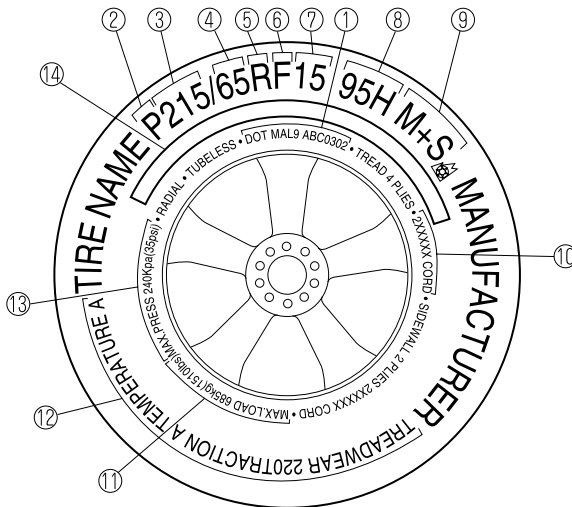
Tire Information (except Canada)

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 sample 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. Run-flat tire
7. Rim diameter code
8. Load index & speed symbol
9. Severe snow conditions
10. Tire ply composition and materials used

Tire Information (except Canada)

11. Max. load rating
12. Tread wear, traction and temperature grades
13. Max. permissible inflation pressure
14. 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 45th 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.

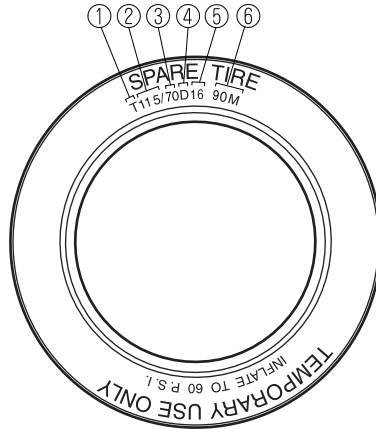
SERIOUS INJURY MAY RESULT FROM:

- 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 sample 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
6. Load index & speed symbol

T115/70D 16 90M 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.

Tire Information (except Canada)

70

“70” is the aspect ratio. This two-digit number indicates the tire's ratio of height to width.

D

“D” is the tire construction symbol. D indicates “diagonal ply construction”.

16

“16” is the wheel rim diameter in inches.

90

“90” is the Load Index. This two-or three-digit number indicates how much weight each tire can support.

M

“M” is the speed rating. The speed rating denotes the maximum speed for which the use of the tire is rated.


Letter Rating	Speed Rating
M	81 mph

Tire Information (except Canada)

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 RENSEIGNEMENTS SUR LES PNEUS ET LE CHARGEMENT				
SEATING CAPACITY NOMBRE DE PLACES		TOTAL 5	FRONT AVANT 2	REAR ARRIÈRE 3
The combined weight of occupants and cargo should never exceed xxx kg or xxx lbs.* Le poids total des occupants et du chargement ne doit jamais dépasser xxx kg ou xxx lb.*				
TIRE PNEU	SIZE DIMENSIONS	COLD TIRE PRESSURE PRESSION DES PNEUS À FROID	SEE OWNER'S MANUAL FOR ADDITIONAL INFORMATION	
FRONT AVANT	P195/70R14	200 kPa, 29 psi	VOIR LE MANUEL DE L'USAGER POUR PLUS DE RENSEIGNEMENTS (XXX)	
REAR ARRIÈRE	P195/70R14	200 kPa, 29 psi		
SPARE DE SECOURS	T125/70D15	420 kPa, 60 psi		

▼ 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 10-7.

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

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:

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.

▼ **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.

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.

Tire Information (except Canada)

▼ 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 combination 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 combination 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 Information (except Canada)

Tire Maintenance

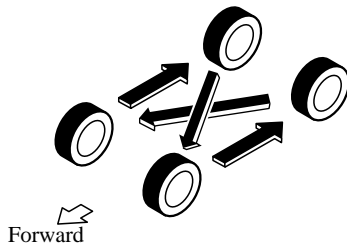
Improper or inadequate vehicle maintenance can cause tires to wear abnormally. Here are some important maintenance points:

▼ 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 10-7) 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.

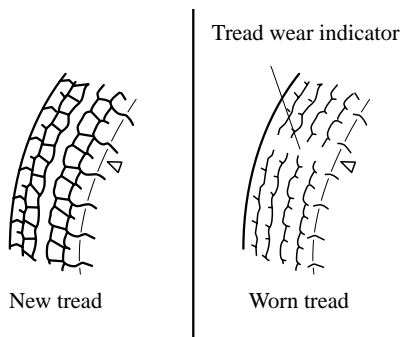
▼ Replacing a Tire

⚠ WARNING

Always use tires that are in good condition:

Driving with worn tires is dangerous. Reduced braking, steering, and traction could result in an accident.

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.

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 9-24.

Tire Information (except Canada)

▼ 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 not 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

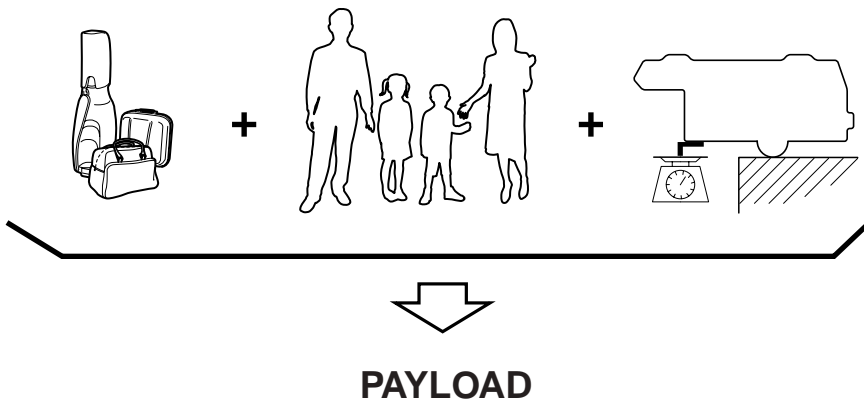
Overloaded Vehicle:

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.

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.



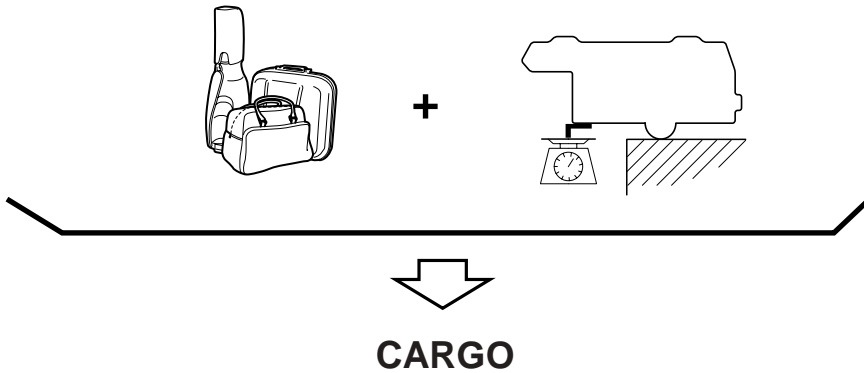
Tire Information (except Canada)

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.

SAMPLE

 TIRE AND LOADING INFORMATION RENSEIGNEMENTS SUR LES PNEUS ET LE CHARGEMENT			
SEATING CAPACITY NOMBRE DE PLACES		TOTAL 5	FRONT AVANT 2 REAR ARRIÈRE 3
The combined weight of occupants and cargo should never exceed xxx kg or xxx lbs.* Le poids total des occupants et du chargement ne doit jamais dépasser xxx kg ou xxx lb.*			
TIRE PNEU	SIZE DIMENSIONS	COLD TIRE PRESSURE PRESSION DES PNEUS À FROID	SEE OWNER'S MANUAL FOR ADDITIONAL INFORMATION
FRONT AVANT	P195/70R14	200 kPa, 29 psi	VOIR LE MANUEL DE L'USAGER POUR PLUS DE RENSEIGNEMENTS (XXX)
REAR ARRIÈRE	P195/70R14	200 kPa, 29 psi	
SPARE DE SECOURS	T125/70D15	420 kPa, 60 psi	

Tire Information (except Canada)



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.

Examples: Based on a single occupant weight of 68 kg (150 lbs), and a value of 385 kg (849 lbs) for the “combination weight of occupants and cargo should never exceed”:
The cargo weight limit with one occupant is $385 \text{ kg (849 lbs)} - 68 \text{ kg (150 lbs)} = 317 \text{ kg (699 lbs)}$

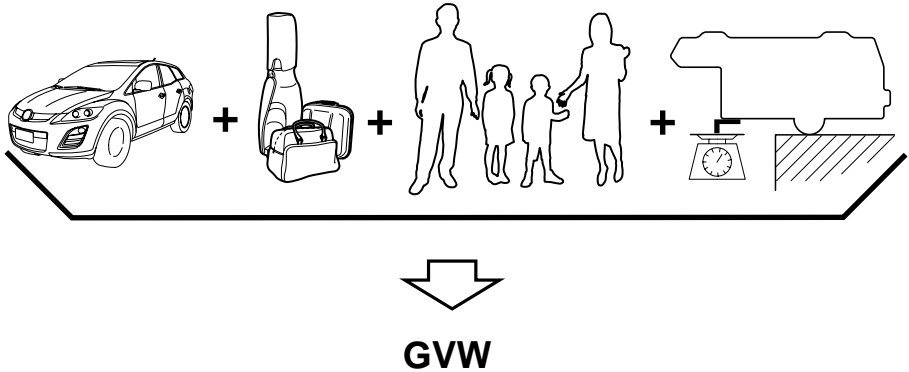
The cargo weight limit with two occupants is $385 \text{ kg (849 lbs)} - (68 \times 2) \text{ kg (} (150 \times 2) \text{ lbs)} = 249 \text{ kg (549 lbs)}$

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.

Tire Information (except Canada)

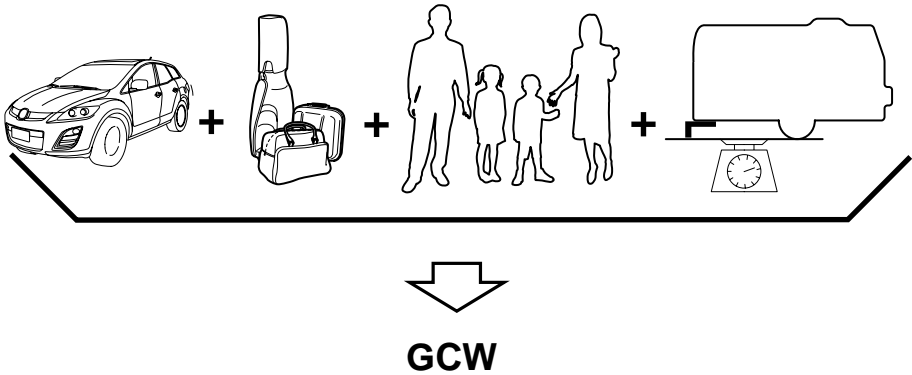
GAWR (Gross Axle Weight Rating) is the maximum allowable weight that can be carried by a single axle (front or rear). **These numbers are shown on the Safety Compliance Certification Label located on the driver's door frame or door pillar. The total load on each axle must never exceed its GAWR.**



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.**

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)

WARNING

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, 1200 New Jersey Avenue, SE., 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

or

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 9-13) 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 do not have what you need in stock, they can order it for you.

PUBLICATION ORDER NUMBER	PUBLICATION DESCRIPTION
9999-95-034B-10R	2010 WORKSHOP MANUAL (English)
9999-MX-034B-10R	2010 WORKSHOP MANUAL (Spanish)
9999-95-068G-10R	2010 WIRING DIAGRAM (English)
9999-MX-068G-10R	2010 WIRING DIAGRAM (Spanish)
9999-95-080C-10R (U.S.A. only)	2010 OWNER'S MANUAL
9999-EC-080C-10R (Canada only)	2010 OWNER'S MANUAL
9999-PR-080C-10R (Puerto Rico only)	2010 OWNER'S MANUAL
9999-95-045F-10R	2010 SERVICE HIGHLIGHTS
7-inch Navigation system	
9999-95-080C-10NAV2 (U.S.A. only)	2010 NAVIGATION SYSTEM OWNER'S MANUAL
9999-EC-080C-10NAV2 (Canada only)	2010 NAVIGATION SYSTEM OWNER'S MANUAL
9999-PR-080C-10NAV2 (Puerto Rico only)	2010 NAVIGATION SYSTEM OWNER'S MANUAL
Multi Information Display (MID) with compact navigation system	
9999-95-080C-10NAV (U.S.A. only)	2010 NAVIGATION SYSTEM OWNER'S MANUAL
9999-EC-080C-10NAV (Canada only)	2010 NAVIGATION SYSTEM OWNER'S MANUAL
9999-PR-080C-10NAV (Puerto Rico only)	2010 NAVIGATION SYSTEM 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.

▼ SERVICE HIGHLIGHTS:

Provides description and operation of the many systems of your Mazda.

▼ NAVIGATION SYSTEM OWNER'S MANUAL:

This booklet contains information regarding the proper operation and use of the navigation system. This is not a technician's manual.

10

Specifications

Technical information about your Mazda.

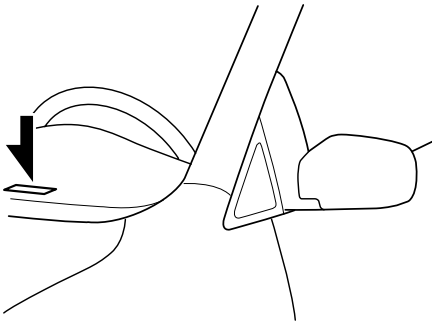
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Vehicle Information Labels	10-2
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Specifications	10-4

Identification Numbers

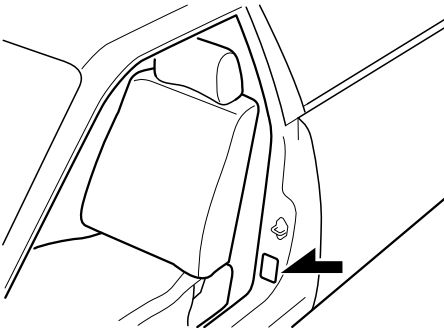
Vehicle Information Labels

▼ 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.

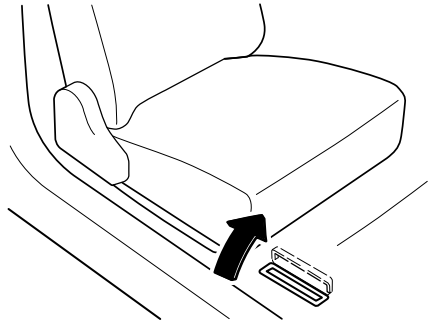


▼ Motor Vehicle Safety Standard Label

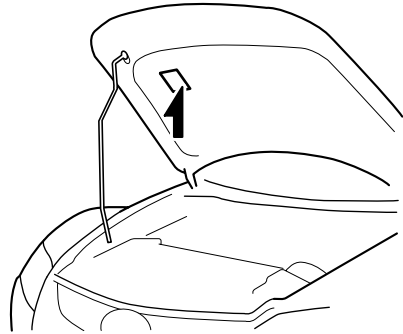


▼ Chassis Number

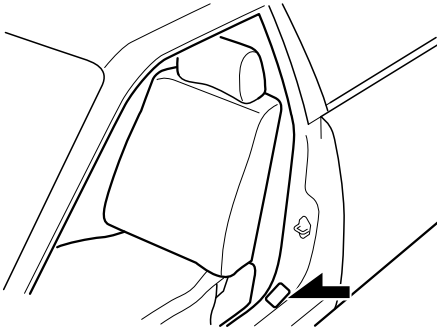
Open the cover shown in the figure to check the chassis number.



▼ Vehicle Emission Control Information Label

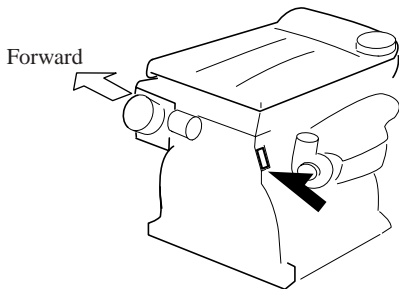


▼ Tire Pressure Label (Except Canada)

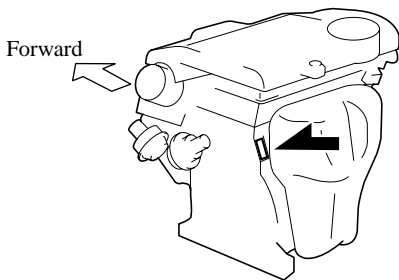


▼ Engine Number

2.3-liter engine



2.5-liter engine



Specifications

Specifications

▼ Engine

Item	Specification	
	2.3-liter engine	2.5-liter engine
Type	DOHC-16V in-line, 4-cylinder	
Bore × Stroke	87.5 × 94.0 mm (3.44 × 3.70 in)	89.0 × 100 mm (3.50 × 3.94 in)
Displacement	2,261 ml (2,261 cc, 138.0 cu in)	2,488 ml (2,488 cc, 151.8 cu in)
Compression ratio	9.5	9.7

▼ Electrical System

Item	Classification	
	2.3-liter engine	2.5-liter engine
Battery	12V-48AH/5HR MF	12V-48AH/5HR MF
	12V-55AH/5HR MF	12V-52AH/5HR MF
Spark-plug number	L3BD 18 110* ¹	LFG1 18 110* ¹
	L3YD 18 110	L3Y2 18 110
Spark-plug gap	0.60—0.70 mm (0.024—0.027 in)	1.25—1.35 mm (0.049—0.053 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 8-19.
Automatic transaxle fluid	5-speed transaxle	Mazda Genuine ATF M-V
	6-speed transaxle	Mazda Genuine JWS3309
Transfer case oil		API Service GL-5 (SAE 80W-90)
Rear differential oil		API Service GL-5 (SAE 80W-90)
Power steering fluid		Mazda Genuine ATF M-III, M-V, or equivalent (e.g. Dexron® II)
Brake fluid		SAE J1703 or FMVSS116 DOT-3

Specifications

▼ Capacities

(Approximate Quantities)

Item		Capacity	
Engine oil	2.3-liter engine	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)
	2.5-liter engine	With oil filter replacement	5.0 L (5.3 US qt, 4.4 Imp qt)
		Without oil filter replacement	4.6 L (4.9 US qt, 4.0 Imp qt)
Coolant		9.0 L (9.5 US qt, 7.9 Imp qt)	
Automatic transaxle fluid		5-speed transaxle	8.55 L (9.03 US qt, 7.52 Imp qt)
		6-speed transaxle	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		2.3-liter engine	69.0 L (18.2 US gal, 15.2 Imp gal)
		2.5-liter engine	62.0 L (16.4 US gal, 13.6 Imp gal)

Check oil and fluid levels with dipsticks or reservoir gauges.

▼ Dimensions

Item		Vehicle specification
Overall length	With license plate holder	4,694 mm (184.8 in)
	Without license plate holder	4,682 mm (184.3 in)
Overall width		1,872 mm (73.7 in)
Overall height		1,645 mm (64.8 in)
Front tread	17 inch	1,627 mm (64.1 in)
	18 or 19 inch	1,617 mm (63.7 in)
Rear tread	17 inch	1,622 mm (63.9 in)
	18 or 19 inch	1,612 mm (63.5 in)
Wheelbase		2,750 mm (108.3 in)

▼ Weights

2.3-liter engine

Item		Weight	
		2WD	AWD
GVWR (Gross Vehicle Weight Rating)		2,233 kg (4,923 lbs)	2,322 kg (5,119 lbs)
GAWR (Gross Axle Weight Rating)	Front	1,188 kg (2,619 lbs)	1,217 kg (2,683 lbs)
	Rear	1,049 kg (2,313 lbs)	1,115 kg (2,458 lbs)

Specifications

2.5-liter engine

Item		Weight
GVWR (Gross Vehicle Weight Rating)		2,125 kg (4,685 lbs)
GAWR (Gross Axle Weight Rating)	Front	1,104 kg (2,434 lbs)
	Rear	1,025 kg (2,260 lbs)

▼ Air Conditioner

Item	Classification
Refrigerant Type	HFC134a (R-134a)

▼ 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 (D2S)
Front turn signal lights/Parking lights			27/8	— (#1157NA)
Front side-marker lights			5	W5W (#168)
Fog lights *			55	H11 (H11)
Side turn signal lights (Integrated with outside mirrors) *			LED* ¹	— (—)
High-mount brake light			LED* ¹	— (—)
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 LED is the abbreviation for Light Emitting Diode.

Interior light

Light bulb	Category	
	Wattage	ECE R
Overhead lights/Map lights (Front)	5	W5W
Overhead light (Rear)	10	—
Luggage compartment light	10	—
Vanity mirror light	1.8	—

▼ 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 8-37.

Standard tire

(U.S.A. and Canada)

Tire size	Inflation pressure	
	Front	Rear
P215/70R17 100H	220 kPa (32 psi)	220 kPa (32 psi)
P235/60R18 102H	220 kPa (32 psi)	220 kPa (32 psi)
P235/55R19 101H	220 kPa (32 psi)	220 kPa (32 psi)

(Except U.S.A. and Canada)

Tire size	Inflation pressure	
	Front	Rear
P215/70R17 100H	220 kPa (32 psi)	220 kPa (32 psi)
235/60R18 103H	220 kPa (32 psi)	220 kPa (32 psi)

Temporary spare tire

(U.S.A. and Canada)

Tire size	Inflation pressure
T155/90D18 103M	420 kPa (60 psi)

(Except U.S.A. and Canada)

Tire size	Inflation pressure
185/80R17 95M	250 kPa (36 psi)

▼ Fuses

Refer to the fuse rating on page 8-49.

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