

OWNER'S MANUAL

2024 MAZDA CX-5

MAZDA MOTOR CORPORATION

⚠ WARNING

California Proposition 65 Warning

Operating, servicing and maintaining a passenger vehicle or off-highway motor vehicle can expose you to chemicals including engine exhaust, carbon monoxide, phthalates, and lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. To minimize exposure, avoid breathing exhaust, do not idle the engine except as necessary, service your vehicle in a well-ventilated area and wear gloves or wash your hands frequently when servicing your vehicle. For more information go to www.P65Warnings.ca.gov/passenger-vehicle.

NOTE

The following manuals are available on the website. Please read them as well (see the link on the last page).

- Mazda Connect Owner's manual
- Navigation manual

Privacy

Mazda maintains a Privacy Statement which describes how we collect, use, share, store and secure data from your vehicle equipped with connected services. We provide you with connected services by collecting and using your personal information and vehicle location, health and driving data.
To learn more about our Privacy Statement,
please visit: https://www.mazdausa.com/site/privacy-connectedservices

Web Owner's Manual

You can view the Web Owner's manual using a Computer, Smartphone, or Tablet.
Feel free to use the Web Owner's manual as well.

To Customers in U.S.A. and Puerto Rico

- Please go to the web site below, and select the desired material or model (model year).

  https://www.mazdausa.com/owners/how-to-use-my-mazda

To Customers in Canada

- Please go to the web site below, and select the desired material or model (model year).

  https://www.mazda.ca/en/owners/manuals/

Limitations on use

- This Web Owner's manual may not display normally depending on the device being used and the contracted services available with the device.
- Communication fees may occur while connected (accessing).
- Access may not be available in poor network or communication environments.

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 compartment 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.

Air Conditioner and the Environment
Your Mazda's genuine air conditioner is filled with 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.

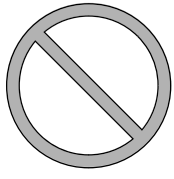
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May 2023 (Print1)

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 following symbol, 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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1 Pictorial Index

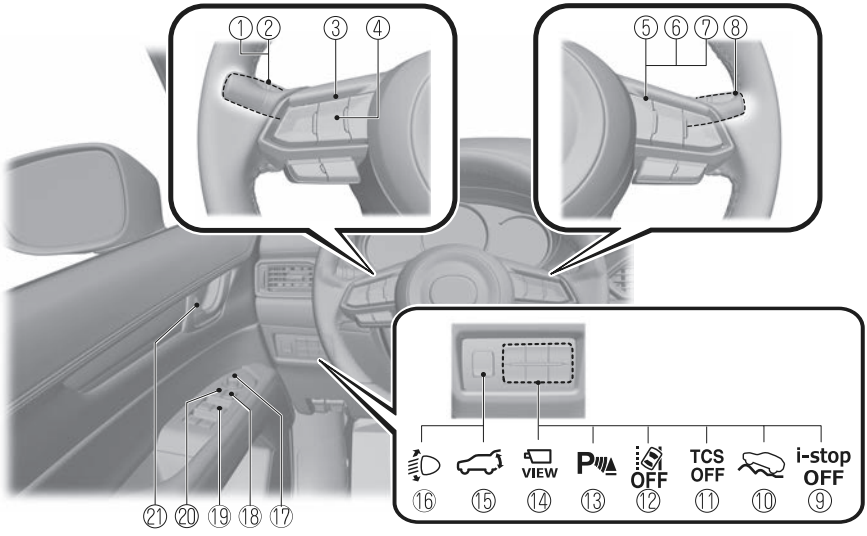
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Interior Overview

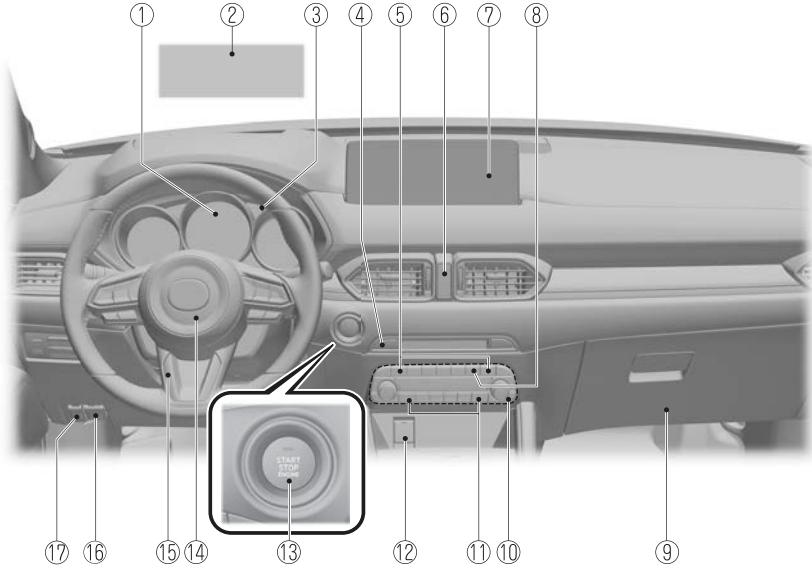
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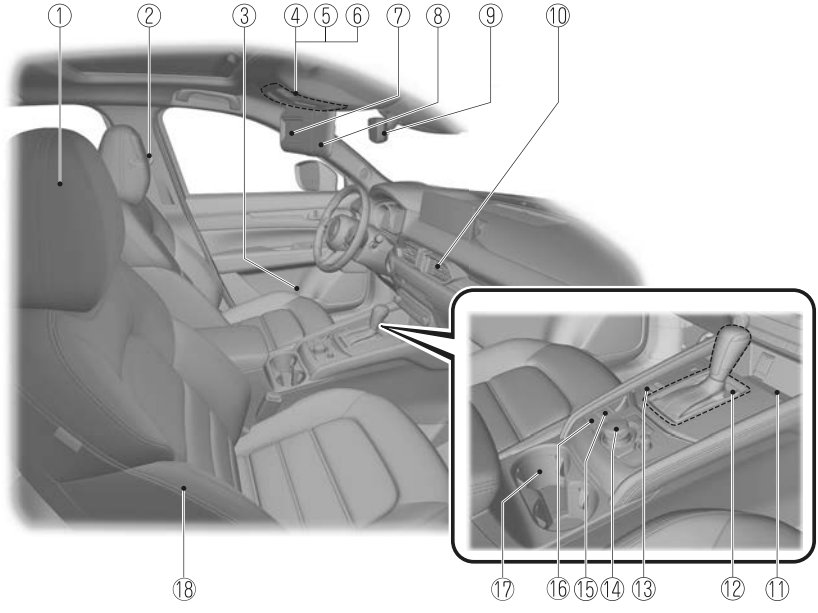
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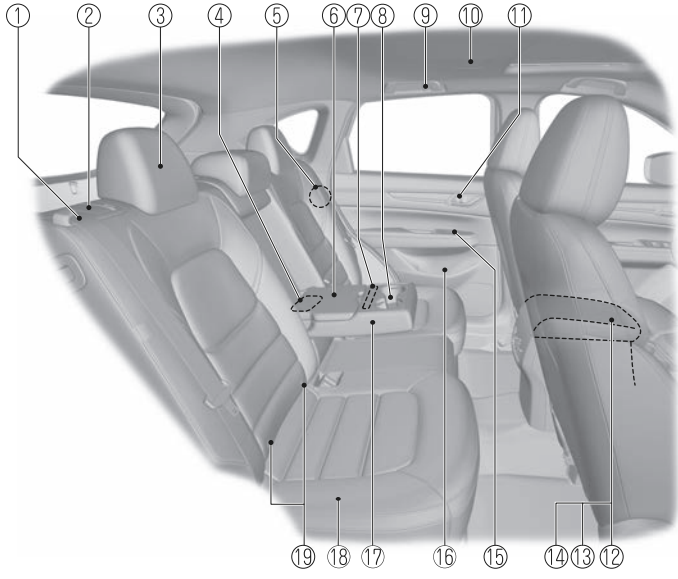
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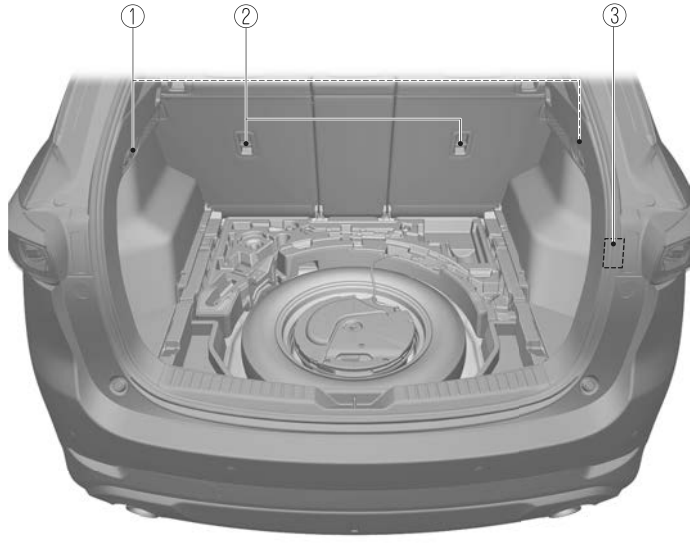
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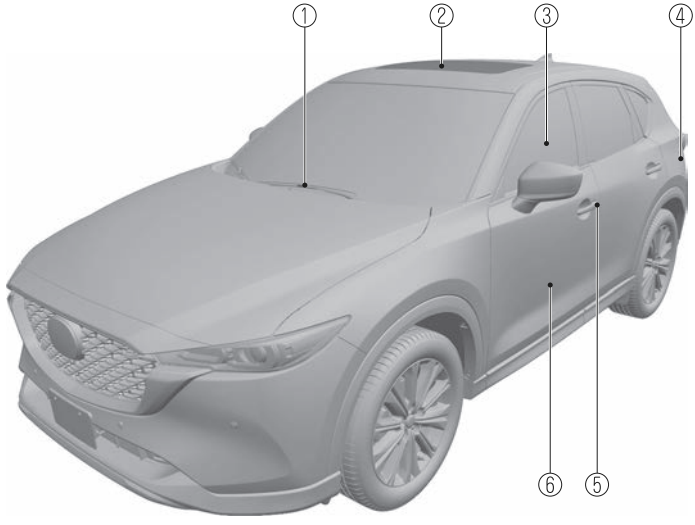
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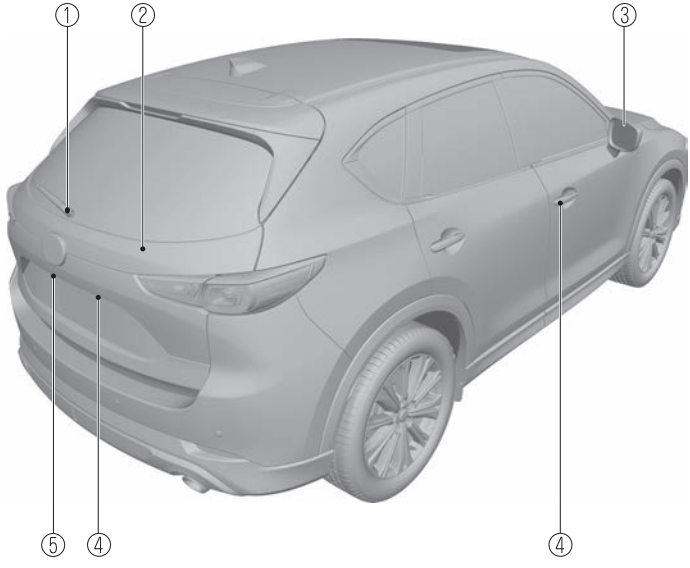
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MEMO

2 Essential Safety Equipment

Important information about safety equipment, including seats, seat belt system, child-restraint systems and SRS air bags.

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*Some models.

Seat Precautions

⚠ WARNING

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

Never allow children to adjust a seat:
Allowing children to adjust a seat is dangerous as it could result in serious injury if a child's hands or feet become caught in the seat.

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.

Adjust a seat only when the vehicle is stopped:
If the seat is adjusted while the vehicle is being driven, the seating posture may become unstable and the seat could move unexpectedly resulting in injury.

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, such as seat cushions torn or damaged down to the urethane, 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.

Do not drive with either front seats 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.

Do not place an object such as a cushion between the seatback and your back:
Putting an object such as a cushion between the seatback and your back is dangerous because you will be unable to maintain a safe driving posture and the seat belt cannot function at its full capacity in a collision, which could result in a serious accident, injury or death.

Do not place objects under the seat:
The object could get stuck and cause the seat to not be fixed securely, and result in an accident.

Do not stack cargo higher than the seatbacks:
Stacking luggage or other cargo higher than the seatbacks 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.
Additionally, if the air bags deploy, the cargo may scatter which could result in serious injury or death.

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

- *When operating a seat, be careful not to put your hands or fingers near the moving parts of the seat or on the side trim to prevent injury.*
- *When moving the seats, make sure there is no cargo in the surrounding area. If the cargo gets caught it could damage the cargo.*

➢ ***(Manual Seat)***
When moving the seats forward and rearward or returning a rear-reclined seatback to its upright position, make sure you hold onto the seatback with your hand while operating. If the seatback is not held, the seat will move suddenly and could cause injury.

➢ *When inserting your hand under the seat to clean the cabin or pick up something you dropped under the seat, be careful not to hurt yourself. If you contact the moving parts of the seat rail or seat frame, it could result in injury.*

NOTE

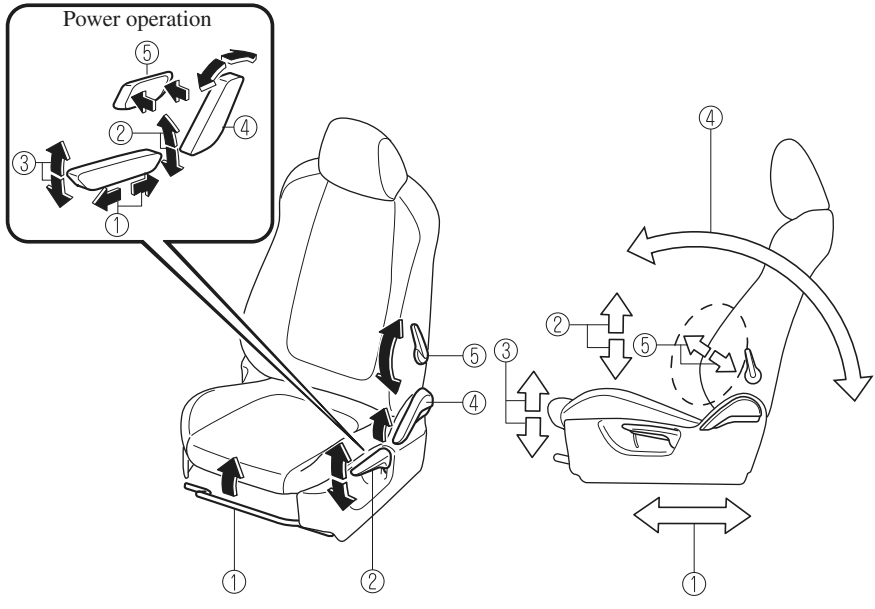
- *When returning a rear seat to its original position, place the seat belt in its normal position. Verify that the seat belt pulls out and retracts.*
- ***(Power Seat)***
  The seat-bottom power adjustment is operated by motors. Avoid extended operation because excessive use can damage the motors.
  - *To prevent the lead-acid 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.*

Front Seat

▼ Adjusting the Driver's Seat

Using the driving position set up procedure recommended by Mazda allows you to maintain a relaxed posture, drive the vehicle for longer periods without feeling tired, and make quick operations naturally.
Also, you can be assured of a clear view in the forward direction to help you drive more safely and comfortably.
The adjustments for the driving position recommended by Mazda are done using the following procedures.

1. Moving the steering wheel and seat to their default positions.
2. Adjusting the seatback angle.
3. Adjusting the seat position forward and back.
4. Adjusting the seat height.
5. Adjusting the steering wheel position.
6. Adjusting the head restraint position.



① Seat Slide
(Manual Seat)
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.
(Power Seat)
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.

② **Height Adjustment**
(Manual Seat)
To adjust the seat height, move the lever up or down.
(Power Seat)
To adjust the seat height, move the slide lifter switch up or down.

③ **Height Adjustment for Front Edge of Seat Bottom (Power Seat)***
To adjust the front height of the seat bottom, raise or lower the front of the slide lifter switch.

④ **Seat Recline**
(Manual Seat)
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.
(Power Seat)
To change the seatback angle, press the front or rear side of the reclining switch. Release the switch at the desired position.

⑤ **Lumbar Support Adjustment***
(Manual Seat)
To increase the seat firmness, move the lever downward. Move the lever upward to decrease firmness.
(Power Seat)
To increase the seat firmness, press and hold the front part of the switch to the desired position, then release it.
Press the rear part of the switch to decrease firmness.

Before making adjustments to the driving position recommended by Mazda

Before making adjustments, move the steering wheel and seat to their default positions.

 *Some models.

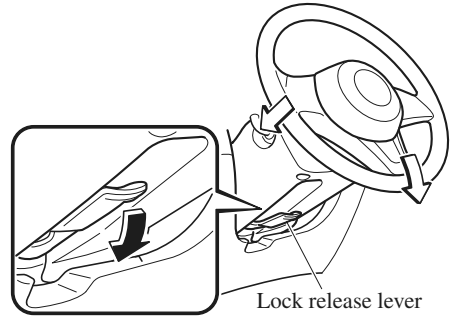
How to move the steering wheel to its default position

⚠ 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.

After adjusting the steering wheel position, make sure it is securely locked by trying to move it up and down:
Driving with the steering wheel not securely locked in position is dangerous. If the steering wheel moves unexpectedly while driving, you could lose control of the steering resulting in an accident.

Lower the lever, move the steering wheel to the lowest position, and then push it down and all the way back.



How to move a driver's seat to its default position

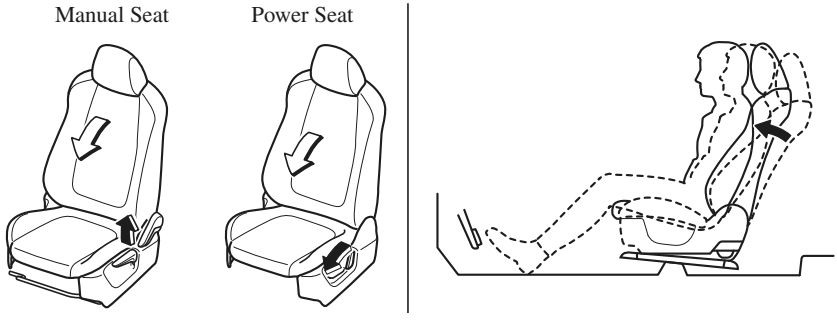
1. Slide the seat all the way back.
2. Lower the seat to its lowest height.
3. Sit squarely in the seat and rest your back against the seatback.

Seat adjustment procedure for the driving position recommended by Mazda

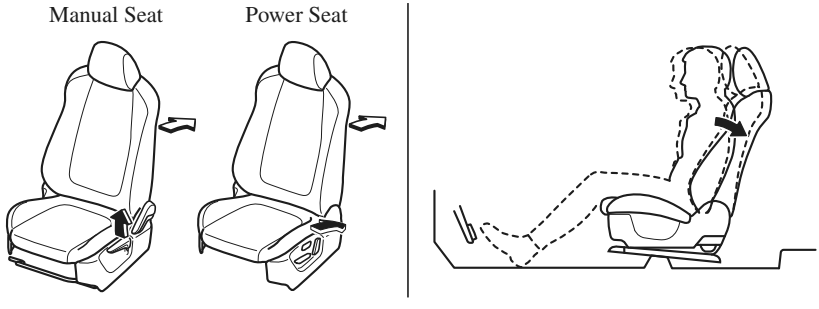
Adjusting the seatback angle (reclining)

Adjust the seatback to the angle providing a comfortable seated posture.

1. With your posture slightly slouched, move the seatback forward to the angle where your waist feels slightly cramped.



2. Move the seatback backward to a comfortable seated posture without any feeling of cramping in your waist.

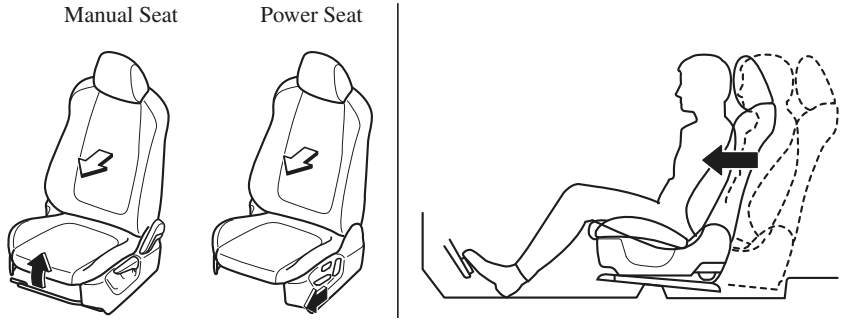


Adjusting the seat position forward and back (sliding)

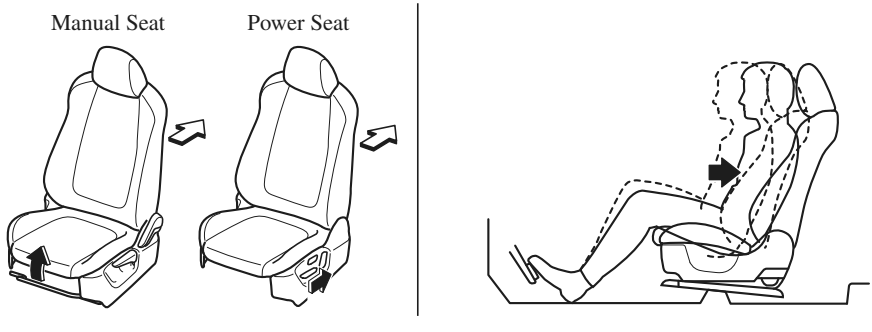
Adjust the seat to the position best for operating the accelerator and brake pedals.

1. Place your left foot on the footrest, your right foot between the accelerator and brake pedals, and position your heel to the position allowing easy switching between the pedals.

2. With your heel set on the floor, set your right foot on the brake pedal and move the seat forward as far as possible until you feel a slight cramping in your ankle.



3. With your right foot set on the brake pedal, move the seat back until you no longer feel cramping in your ankle.
4. With your heel set on the floor, make sure you can move your foot between the brake pedal and accelerator pedal smoothly.
5. Depress the accelerator pedal completely with your heel set on the floor and make sure that your ankle does not feel over-stretched.



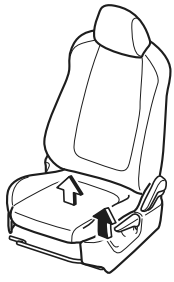
Adjusting the seat height

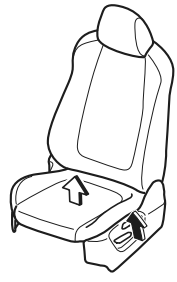
Adjust the seat height to a position where you have a clear forward view and you can drive the vehicle easily.

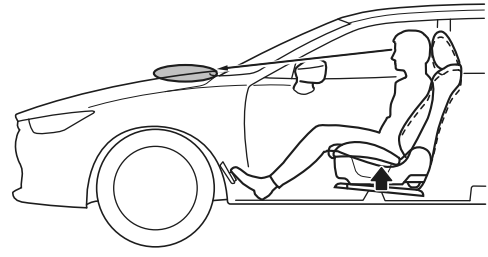
1. With your back resting against the seatback, raise the seat to the height where you can see the rear edge area of the hood surface from the windshield.

With the manual seat, if you raise the seat height, the seat moves forward. Adjust the seat forward or back again.

Manual Seat Power Seat



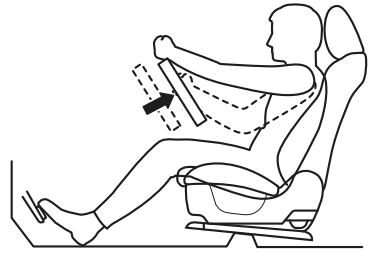




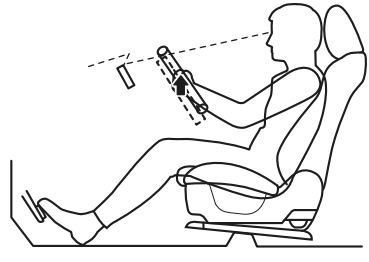
Adjusting the steering wheel position

Adjust the steering wheel to the position where it can be operated easily and the gauges can be viewed easily.

1. With your back resting against the seatback, extend both arms, place them on the top of the steering wheel, and pull the steering wheel towards you to the position of your wrists.



2. Adjust the steering wheel height so that the gauges can be viewed easily.
3. Raise the lever to securely lock the steering wheel.



Adjusting the head restraint position

To prevent shock to the head and neck, adjust the head restraints to their correct positions.

Refer to Height Adjustment on page 2-20.

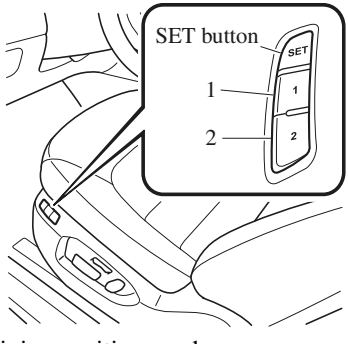
▼ Driving Position Memory*

The desired driving position can be called up after programming the position.
The following driving positions can be programmed.

- Driver's seat position (seat slide, height adjustment, front edge of seat bottom, seat recline)
  Refer to Adjusting the Driver's Seat on page 2-5.
- Active driving display (display position, brightness level, display information)
  Refer to Active Driving Display on page 4-64.

⚠ CAUTION

Do not place fingers or hands around the bottom of the seat while the seat memory function is operating. The seat moves automatically while the seat memory function is operating and fingers or hands could get pinched and injured.



A driving position can be programmed or operated using the buttons on the side of the seat or the key.

NOTE

- *Lumbar support adjustment cannot be programmed.*
- *A driving position can be programmed to the buttons on the side of the seat and the key in use for driving the vehicle.*
- *If the vehicle has been serviced and the lead-acid battery cables disconnected, the programmed seat positions will have been erased. Re-program the seat positions.*

Programming

1. Make sure the parking brake is on.
2. Make sure the selector lever is in the P position.
3. Start the engine.
4. Adjust the seat and the active driving display to the desired driving position.
5. Press the SET button on the seat until a beep sound is heard 1 time.
6. Perform one of the following settings within 5 seconds of completing step 5 above:
   - **Programming using a button on the side of the seat**
     Press the button you want to program, either button 1 or 2, until a beep sound is heard 1 time.
   - **Programming using the key**
     Press the key unlock button until a beep sound is heard 1 time.

NOTE

If a beep sound is heard 3 times, the operation is canceled.

To move the driving position to a programmed position

(Using a button on the side of the seat)

1. Make sure the parking brake is on.
2. Make sure the selector lever is in the P position.
3. Start the engine.
4. Press the programming button for the driving position you want to call up (button 1 or 2).
5. A beep sound is heard when the driving position adjustment is completed.

NOTE

- *If the driving position movement is not changed, only the beep sounds.*
- *A seat position can be called up even with the engine not running.*
- *The driving position adjustment is canceled in the following cases:*
  - *Any of the seat adjustment switches is operated.*
  - *The SET button is pressed.*
  - *Programming button 1 or 2 is pressed.*
  - *The key lock button or unlock button is operated.*
  - *The vehicle starts moving.*
  - *The active driving display is adjusted.*

(Using a programmed key)

1. Unlock the doors by pressing a request switch or the key unlock button.
2. After unlocking the doors, the seat position adjustment begins within 40 seconds of opening the driver's door, and a beep sounds when the operation is finished.
3. Make sure the parking brake is on.
4. Make sure the selector lever is in the P position.
5. Start the engine.
6. The active driving display adjustment begins.

NOTE

- *If there is no driving position movement, a beep is not heard.*
- *The driving position adjustment is canceled in the following cases:*
  - *Any of the seat adjustment switches is operated.*
  - *The SET button is pressed.*
  - *Programming button 1 or 2 is pressed.*
  - *The key lock button or unlock button is operated.*
  - *The vehicle starts moving.*
  - *The active driving display is adjusted.*

Erasing programmed driving positions

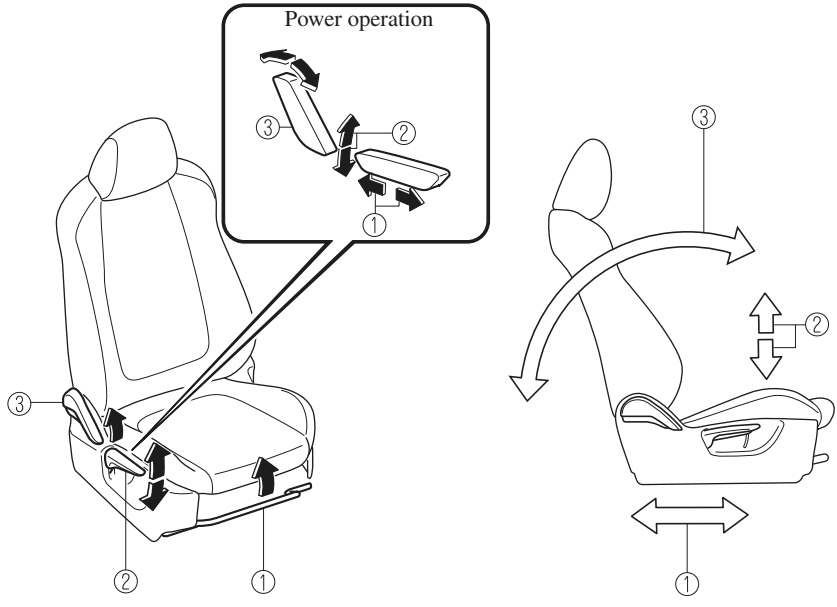
(Erasing the driving positions programmed to the key)

1. Switch the ignition OFF.
2. Press the SET button on the side of the seat until a beep sound is heard 1 time.
3. After the beep sounds, press the key lock button within 5 seconds until a beep sound is heard 1 time.

NOTE

If a beep sound is heard 3 times, the operation is canceled.

▼ Adjusting the Front Passenger's Seat



① Seat Slide

(Manual Seat)

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.

(Power Seat)

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.

②Height Adjustment*

(Manual Seat)

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

(Power Seat)

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

③ Seat Recline

(Manual Seat)

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

Rear Seat

▼ Split Folding

By lowering the rear seatbacks the luggage compartment space can be expanded.

⚠ WARNING

Tightly secure cargo in the luggage compartment when it is transported with the seatbacks folded down:
Driving without tightly securing cargo and luggage is dangerous as it could move and become an obstruction to driving during emergency braking or a collision resulting in an unexpected accident.

⚠ CAUTION

If the seatback is not supported by your hand, it will move suddenly and could cause injury.

Folding both seatbacks down

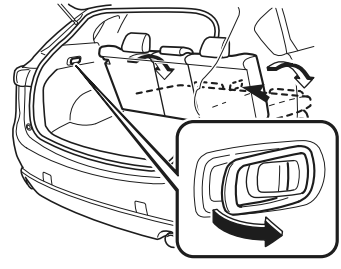
⚠ CAUTION

Check the position of a front seat before folding a rear seatback. Depending on the position of a front seat, it may not be possible to fold a rear seatback all the way down because it may hit the seatback of the front seat which could scratch or damage the front seat or its pocket. Lower or remove the head restraint on the rear outboard seat if necessary.

NOTE
When you fold down the left seatback, the center seatback folds down at the same time.

Using remote handle*

1. **(With rear seat warmer)**
   Turn the rear seat warmer switch off. Refer to Seat Warmer on page 2-22.
2. After checking that the rear seats are clear, open the liftgate and lower the seatback you want to fold down using the remote handle.
   When folding the left side, operate the outer part of the remote handle.



⚠ WARNING

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

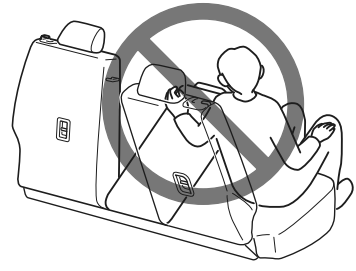
*Some models.

Make sure there is nobody in the rear seat area before operating (pulling) the remote handle:
Not checking the rear seat area for persons before folding the seatbacks with the strap/ remote handle is dangerous. The rear seat area is difficult to see from the rear of the vehicle. Operating (pulling) the remote handle without checking could cause injury to a person when a seatback suddenly flips forward.

⚠ CAUTION

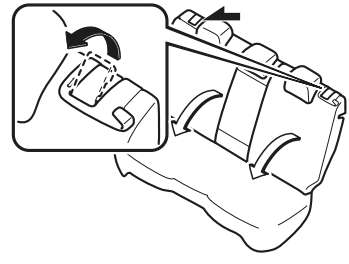
- *Before folding the seatbacks down with the remote handle, make sure there is no cup in a rear cup holder. Folding the seatbacks with the remote handle while a cup is in the cup holder could soil or damage the seat bottom and seatback.*
- *Be careful of the following when using the remote handle:*
  - *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 the remote handle, pull the rear seatback forward from inside the vehicle.*

- ***(Folding the left seatback)***
  Be careful when operating the remote handle with the center seatback folded down. If a person sitting in the right rear seat places a hand on the center seatback, it could be pinched by a seatback or seat component causing injury.



Using the lever

1. **(With rear seat warmer)**
   Turn the rear seat warmer switch off. Refer to Seat Warmer on page 2-22.
2. Pull the lever and fold the seatback forward.



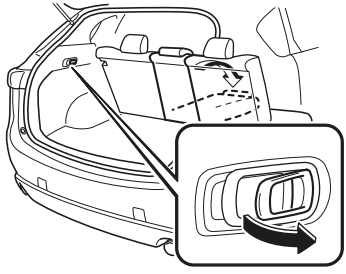
Folding only center seatback

Using remote handle*

1. **(With rear seat warmer)**
   Turn the rear seat warmer switch off. Refer to Seat Warmer on page 2-22.
2. If the center head restraint is in the position for use, store it.

*Some models.

3. After checking that the center seat is clear, open the liftgate and pull the inside remote handle on the left side of the liftgate compartment.



⚠ WARNING

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

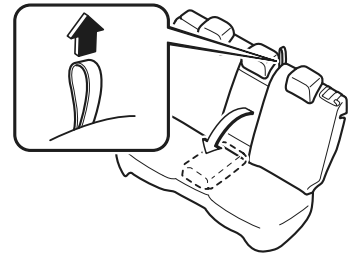
Make sure there is nobody in the rear seat area before operating (pulling) the remote handle:
Not checking the rear seat area for persons before folding the seatbacks with the strap/remote handle is dangerous. The rear seat area is difficult to see from the rear of the vehicle. Operating (pulling) the remote handle without checking could cause injury to a person when a seatback suddenly flips forward.

⚠ CAUTION

- *Before folding the seatbacks down with the remote handle, make sure there is no cup in a rear cup holder. Folding the seatbacks with the remote handle while a cup is in the cup holder could soil or damage the seat bottom and seatback.*
- *Be careful of the following when using the remote handle:*
  - *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 the remote handle, pull the rear seatback forward from inside the vehicle.*

Using strap

1. **(With rear seat warmer)**
   Turn the rear seat warmer switch off. Refer to Seat Warmer on page 2-22.
2. If the center head restraint is in the position for use, store it.
3. Pull the strap on the back of the seatback to fold the seatback forward.

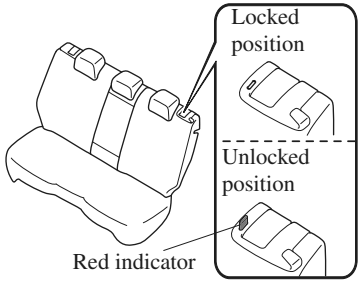


To return the seatbacks to the upright position

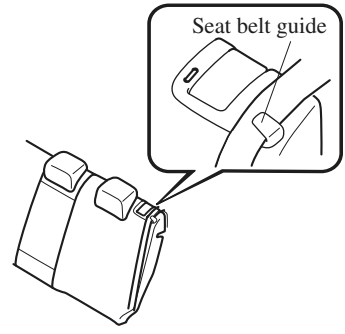
⚠ WARNING

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 its upright position, make sure that it is firmly locked and the red indication is not visible:
If the red indication is visible, the seatback is not locked. If the vehicle is driven without the seatback locked, it could fold down suddenly and cause an accident.



1. Make sure that the seat belt passes through the seat belt guide.

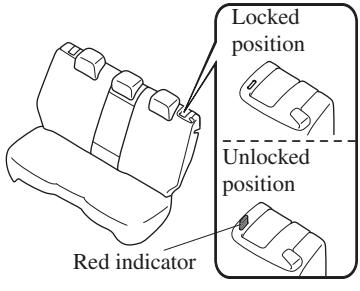


2. Press the seatback rearward and lock it in place. After returning the seatback to its upright position, make sure it is securely locked.

▼ Rear Seat Recline

⚠ WARNING

After adjusting the seatback, make sure that it is firmly locked and the red indication is not visible by attempting to lightly move the seatback forward and back:
If the red indication is visible, the seatback is not locked. If the vehicle is driven with the seatback unlocked, it may move unexpectedly and the seating posture of the occupant becomes unstable, resulting in an accident.



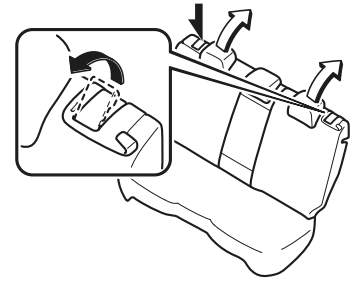
⚠ CAUTION

When adjusting the seatback, always support the seatback with your hand. If the seatback is not supported by your hand, it will move suddenly and could cause injury.

NOTE
When you adjust the left seatback, the center seatback moves at the same time.

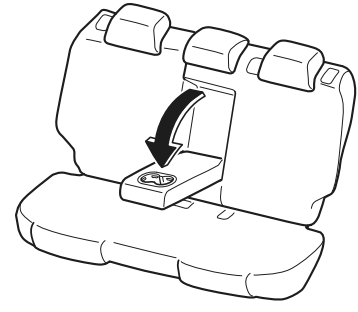
The left and right seatbacks of the rear seat can be adjusted separately.

Recline the seatback with the lever pulled up.



▼ Armrest*

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



⚠ WARNING

Never put your hands and fingers around the moving parts of the seat and armrest:
Putting your hands and fingers around the moving parts of the seat and armrest is dangerous as they could get injured.

Head Restraints

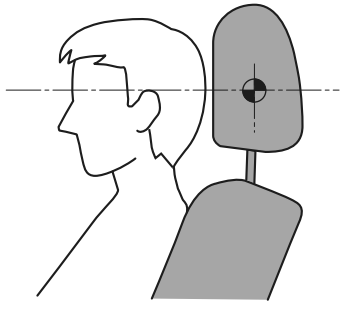
Your vehicle is equipped with head restraints on all outboard seats and the rear center seat. The head restraints are intended to help protect you and the passengers from neck injury.

⚠ WARNING

Always drive with the head restraints installed when seats are being used and make sure they are properly adjusted. In addition, always raise the head restraints on all rear seats when they are being used:
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.

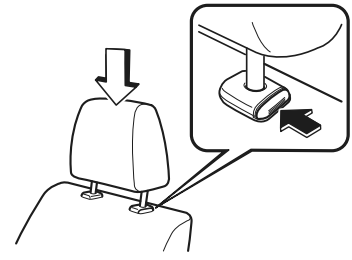
▼ Height Adjustment

Adjust the head restraint so that the center is even with the top of the passenger's ears.



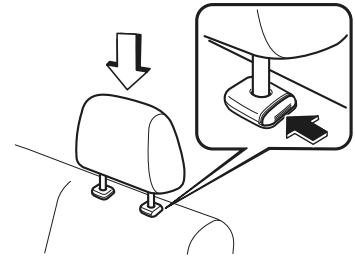
To raise a head restraint, pull it up to the desired position.
To lower the head restraint, press the stop-catch release, then push the head restraint down.

Front seats

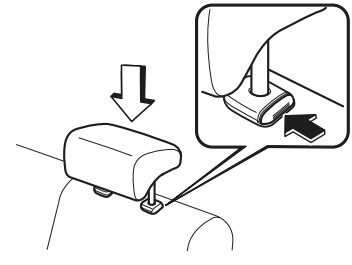


Rear outboard seats

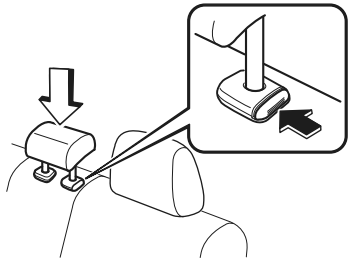
Except Mexico



Mexico



Rear center seat



▼ Removal/Installation

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

⚠ WARNING

Always drive with the head restraints installed when seats are being used and make sure they are properly installed:
Driving with the head restraints not installed is dangerous. With no support behind your head, your neck could be seriously injured in a collision.

After installing a head restraint, try lifting it to make sure that it does not pull out:
Driving with an unsecured head restraint is dangerous as the effectiveness of the head restraint will be compromised which could cause it to unexpectedly detach from the seat.

⚠ CAUTION

- *When installing a head restraint, make sure that it is installed correctly with the front of the head restraint facing forward. If the head restraint is installed incorrectly, it could detach from the seat during a collision and result in injury.*
- *The head restraints on each of the front and rear seats are specialized to each seat. Do not switch around the head restraint positions. If a head restraint is not installed to its correct seat position, the effectiveness of the head restraint during a collision will be compromised which could cause injury.*

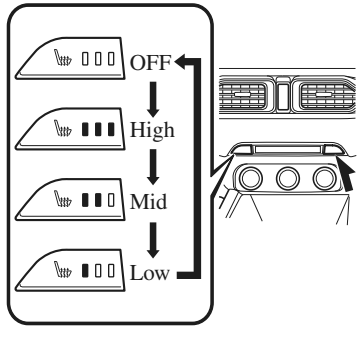
Seat Warmer/Seat Ventilation/Heated Steering Wheel

Seat Warmer*

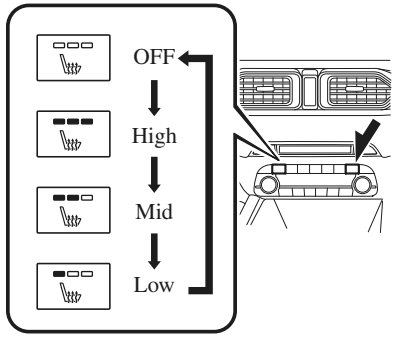
The front/rear seats are electrically heated.
The ignition must be switched ON.
Press the seat warmer switch while the ignition is switched ON to operate the seat warmer. The indicator lights turn on to indicate that the seat warmer is operating.
The mode changes as follows each time the seat warmer switch is pressed.
When using the rear seat warmer, fold the armrest forward.
Refer to Armrest on page 2-19.

Front

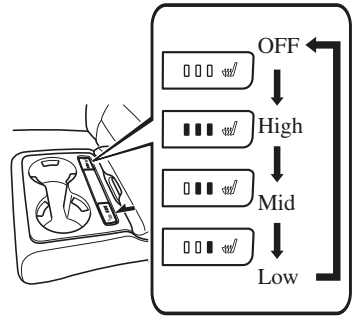
(Manual Climate Control)



(Fully Automatic Climate Control)



Rear*



⚠ WARNING

Be careful when using the seat warmer:
The heat from the seat warmer may be too hot for some people, as indicated as follows, and could cause a low-temperature burn.

- *Infants, small children, elderly people, and physically challenged people*
- *People with delicate skin*
- *People who are excessively fatigued*
- *People who are intoxicated*
- *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.

 *Some models.

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

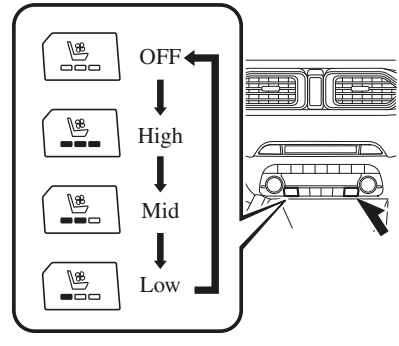
- ***(Rear)***
  Before folding a rear seatback, make sure that the rear seat warmer switch is off. If a rear seatback is folded while the rear seat warmer is in operation, it may heat the seat excessively and damage the seat surface.
- *Do not use organic solvents to clean the seat. It may damage the seat surface and the heater.*

NOTE

- *Use the seat warmer when the engine is running. Leaving the seat warmer on for long periods with the engine not running could cause the lead-acid battery power to be depleted.*
- *When the engine is stopped while the seat warmers are operating and then the ignition is switched ON, the seat warmers will not turn back on automatically. To turn the seat warmers back on, press the switch. In addition, the seat warmer operation stops automatically after the seat warmers have operated for about 90 minutes.*
- ***(Vehicles with seat ventilation)***
  The seat warmer cannot be used at the same time as the seat ventilation.

Seat Ventilation*

The seat ventilation uses fans installed in the seats to draw air around the seat surface and ventilate them. The ignition must be switched ON.
Press the seat ventilation switch while the ignition is switched ON to operate the seat ventilation. The indicator lights turn on to indicate that the seat ventilation is operating. The mode changes as follows each time the seat ventilation switch is pressed.



⚠ CAUTION

- *Do not use organic solvents to clean the seat. It may damage the seat surface and the seat ventilation parts.*
- *Do not place heavy objects with sharp projections on the seat, or insert needles or pins into it.*

NOTE

- *Use the seat ventilation when the engine is running. Leaving the seat ventilation on for long periods with the engine not running could cause the lead-acid battery power to be depleted.*

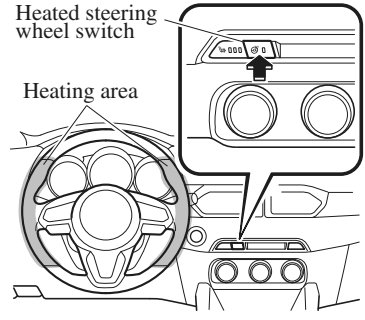
*Some models.

- *When the engine is stopped while the seat ventilations are operating and then the ignition is switched ON, the seat ventilations will not turn back on automatically.*
- ***(Vehicles with front seat warmer)***
  The seat ventilation cannot be used at the same time as the seat warmer.

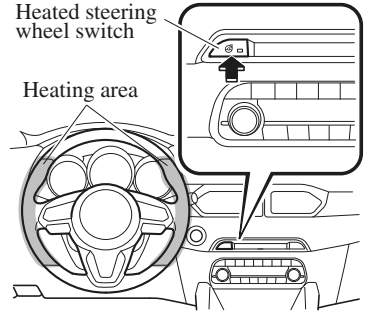
Heated Steering Wheel*

The grips on the left and right of the steering wheel can be warmed up.

(Manual Climate Control)



(Fully Automatic Climate Control)



The ignition must be switched ON.

Press the switch to turn on the heated steering wheel. The heated steering wheel operates for about 30 minutes and then turns off automatically.
The indicator light illuminates when the heater is operating.

To turn off the heated steering wheel before the 30 minutes has elapsed, press the switch again.

*Some models.

⚠ CAUTION

The following types of persons should be careful not to touch the steering wheel. Otherwise, it could cause a low-temperature burn.

- *Infants, small children, elderly people, and physically challenged people*
- *People with delicate skin*
- *People who are excessively fatigued*
- *People who are intoxicated*
- *People who have taken sleep-inducing medicine such as sleeping pills or cold medicine*

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.

(Except Mexico)
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.

(Mexico)
All the seats have lap/shoulder belts. These belts have retractors with inertia locks that keep them out of the way when not in use. The locks allow the belts to remain comfortable on users, but they will lock in position during a collision.

⚠ 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. So, if your seat belt is twisted, you must straighten the seat belt to remove any twists and to allow the full width of the belt to be used.

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:
Always have an Authorized Mazda Dealer immediately inspect the seat belt pretensioners and air bags after any collision. Like the air bags, the seat belt pretensioners and load limiters will only function once and must be replaced after any collision that caused them to deploy. A seat belt with an expended pretensioner or load limiter is still better than wearing no seat belt at all; however, if the seat belt pretensioners and load limiters are not replaced, the risk of injury in a collision will increase.

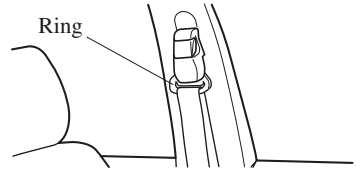
Positioning the Shoulder Portion of the Seat Belt:
Improper positioning of the shoulder portion of the seat belt is dangerous. Always make sure the shoulder portion of the seat belt is positioned across your shoulder and near your neck, but never under your arm, on your neck, or on your upper arm.

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.

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 "Seat Belt Maintenance" (page 6-55).



▼ 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

When the seat belt is fastened, it will always be in the 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.
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 1 time and loosen, then pull it out again slowly.
(Seat Belt with Automatic Locking Mode)
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.

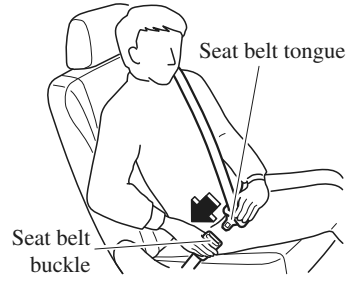
▼ Automatic Locking Mode*

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 2-35).

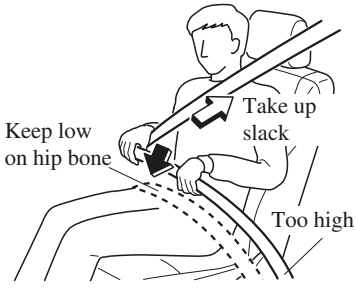
 *Some models.

Seat Belt

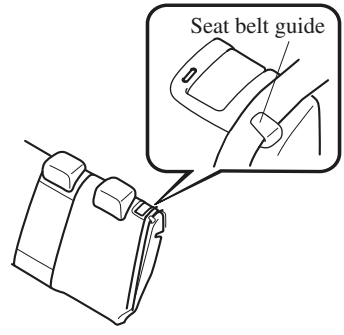
▼ Fastening the Seat Belt



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.

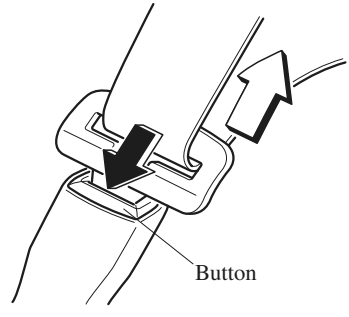


Before fastening the rear seat belt, make sure that the seat belt passes through the seat belt guide correctly and it is not twisted.



▼ Unfastening the Seat Belt

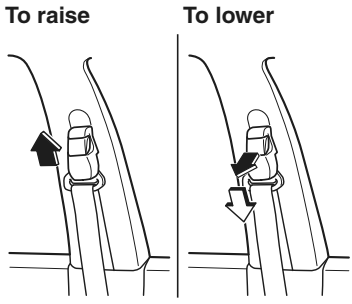
Depress the button on the seat belt buckle. If the belt does not fully retract, pull it out and check for kinks or twists. Then make sure it remains untwisted as it retracts.



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.

▼ **Front Shoulder Belt Adjuster**



Make sure the adjuster is locked.

Seat Belt Warning Systems

If it detects that the occupant seat belt is unfastened, the warning light or beep alerts the occupant.
Refer to Taking Action on page 7-31.
Refer to Seat Belt Warning Beep on page 7-39.

Seat belt indicator light (rear seat) (green)



The light turns on when the ignition is switched ON and a rear seat belt is fastened, and then it turns off after 30 seconds.

Seat Belt Pretensioner and Load Limiting Systems

For optimum protection, the front seat belts and rear outboard 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:

When a collision is detected, the pretensioners deploy simultaneously with the air bags.

For vehicles with the front passenger occupant classification system, the pretensioners deploy simultaneously with the air bags when a roll-over is also detected.

For deployment details, refer to the SRS Air Bag Deployment Criteria (page 2-68).

The front seat belt retractors remove slack quickly as the air bags are expanding. Any time the air bags and seat belt pretensioners have fired they must be replaced.

A system malfunction or operation conditions are indicated by a warning. Refer to Taking Action on page 7-31. Refer to Air Bag/Seat Belt Pretensioner System Warning Beep on page 7-39.

(With Front Passenger Occupant Classification System)

In addition, the pretensioner system for the front passenger, like the front and side passenger air bag, is designed to only deploy when the front passenger occupant classification sensor detects a passenger sitting on the front passenger's seat.

For details, refer to the front passenger occupant classification sensor (page 2-72).

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 2-29).

*Some models.

Have your seat belts changed immediately if the pretensioner or load limiter has been expended:
Always have an Authorized Mazda Dealer immediately inspect the seat belt pretensioners and air bags after any collision. Like the air bags, the seat belt pretensioners and load limiters will only function once and must be replaced after any collision that caused them to deploy. A seat belt with an expended pretensioner or load limiter is still better than wearing no seat belt at all; however, if the seat belt pretensioners and load limiters are not replaced, the risk of injury in a collision will increase.

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. Have an Authorized Mazda Dealer safely dispose of the pretensioner system or scrap a pretensioner system equipped vehicle.

NOTE

- *The pretensioner system may not operate depending on the type of the collision. For details, refer to the SRS Air Bag Deployment Criteria (page 2-68).*
- *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 pretensioner system gets on the skin or in the eyes, wash it off as soon as possible.*

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's seat belt buckle), 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.

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.

(With Front Passenger Occupant Classification System)
To reduce the chance of injuries caused by deployment of the front passenger air bag, the front passenger occupant classification sensor works 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 front passenger air bag deactivation indicator light illuminates.

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 occupant classification sensor" (page 2-72).

⚠ 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 attach it to BOTH ISOFIX/LATCH[*1] lower anchors for ISOFIX/LATCH[*1] child-restraint systems and the corresponding tether anchor.*
*[*1] ISOFIX (Mexico)/LATCH (Except Mexico)*

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.



(Except Mexico)
Vehicles with a front passenger air bag have the following warning label. The warning label reminds you not to put a rear-facing child-restraint system on the front passenger seat at any time.



(Mexico)
NEVER use a rearward facing child restraint on a seat protected by an ACTIVE AIRBAG in front of it, DEATH or SERIOUS INJURY to the CHILD can occur.
Vehicles with a front passenger air bag have the following warning label. The warning label reminds you not to put a rear-facing child-restraint system on the front passenger seat at any time.



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 and adjust the seat bottom (height adjustable seat bottom) to the highest position at which the seat belt fastening the child-restraint system is securely tightened.



Seating a child in a child-restraint system on the front passenger seat is dangerous under certain conditions (With Front Passenger Occupant Classification System):

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

- *The front passenger air bag deactivation indicator light does not illuminate when seating 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.*
- *Luggage or other items are placed on the seatback or hung on the head restraint.*
- *The seat is washed.*
- *Liquids are spilled on the seat.*
- *The front passenger seat is moved backward, pushing into luggage or other items placed behind it.*
- *The front passenger seatback contacts the rear seat.*
- *Luggage or other items are placed between the front passenger seat and driver seat.*
- *An electric device is put on the front passenger's seat.*
- *An additional electrical device, such as a seat warmer is installed to the surface of 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.

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

It is dangerous to allow anyone to lean over to 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 to or against the door could block the side and curtain air bags and eliminate the advantages of supplemental protection. Because the front seats are equipped with front air bags, the rear seat is always a better location for children. Take special care not to allow a child to lean over to 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 for the rear seat:
Operating the remote handle 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 ISOFIX/LATCH*1 lower anchors for attachment of specially designed ISOFIX/LATCH*1 child-restraint systems on the rear seats. When using these anchors to secure a child-restraint system, refer to "Using ISOFIX Lower Anchor (Mexico)/ Using LATCH Lower Anchor (Except Mexico)" (page 2-52).*
**1 ISOFIX (Mexico)/LATCH (Except Mexico)*

Child-Restraint System Installation

▼ Categories of Child-Restraint Systems

NOTE
When purchasing, ask the manufacturer of the child-restraint system which type of child-restraint system is appropriate for your child and vehicle.

(Mexico)
Child-restraint systems are classified into the following 5 groups according to the UN-R 44 and UN-R 129 regulation.

Group	Age	Weight	Size Classification/ Fixture (CRF)
0	Up to about 9 months old	Up to 10 kg (up to 22 lb)	ISO/L1
			ISO/L2
			ISO/R1
0+	Up to about 2 years old	Up to 13 kg (up to 29 lb)	ISO/R1
			ISO/R2
			ISO/R3
1	About 8 months to 4 years old	9 kg — 18 kg (20 lb — 40 lb)	ISO/R2
			ISO/R3
			ISO/F2
			ISO/F2X
			ISO/F3
2	About 3 to 7 years old	15 kg — 25 kg (33 lb — 55 lb)	—
3	About 6 to 12 years old	22 kg — 36 kg (48 lb — 79 lb)	—

(Except Mexico)
Please comply with the legal regulations concerning the use of child-restraint systems in your country.

▼ Child-Restraint System Types

In this owner's manual, explanation of child-restraint systems is provided for the following three types of popular child-restraint systems: infant seat, child seat, booster seat.

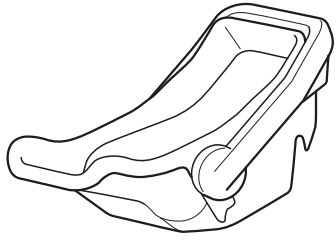
NOTE

- *Installation position is determined by the type of child-restraint system. Always read the manufacturer's instructions and this owner's manual carefully.*

- *Due to variations in the design of child-restraint systems, vehicle seats and seat belts, all child-restraint systems may not fit all seating positions. Before purchasing a child-restraint system, it should be tested in the specific vehicle seating position (or positions) where it is intended to be used. If a previously purchased child-restraint system does not fit, you may need to purchase a different one that will.*

Infant seat

An infant seat provides restraint by bracing the infant's head, neck and back against the seating surface.
Equal to Group 0 and 0+ of the UN-R 44 and UN-R 129 regulation.



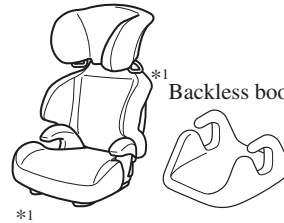
Child seat

A child seat restrains a child's body using the harness.
Equal to Group 1 of the UN-R 44 and UN-R 129 regulation.



Booster seat

A booster seat is a child restraint accessory designed to improve the fit of the seat belt system around the child's body.
Equal to Group 2 and 3 of the UN-R 44 and UN-R 129 regulation.



*1
When using a backless booster seat, always install the vehicle head restraint to the seat where the backless booster seat is installed.

Child-Restraint System Suitability for Various Seat Positions Table

(Mexico)

Provided information in the table shows your child-restraint system suitability for various seating position. For installation suitability of other manufacturer child-restraint system, carefully consult the manufacturer's instructions which accompany the child-restraint system.

When installing a child-restraint system, the following points must be observed:

- Always remove the head restraint before installing a child-restraint system. However, when installing a backless booster seat, always install the vehicle head restraint to the seat where the backless booster seat is installed. In addition, always use a tether strap and attach it securely. Refer to Head Restraints on page 2-20.
- When installing a child-restraint system to the front passenger seat, adjust the seat slide position as far back as possible. Adjust the seat bottom to the highest position so that the seat belt can securely fasten the child-restraint system.
  Refer to Adjusting the Front Passenger's Seat on page 2-13.
- When it is difficult to install a child-restraint system to the front passenger seat, or the seat belt cannot be secured to the child-restraint system, perform the following operations to adjust the seat holding the child-restraint system so that the seat belt can be secured completely to it.
  - Move the seat forward or back.
  - Move the seatback forward or back.
  - Move the seat upward or downward. (Vehicles with height adjustment function)
- When installing a child-restraint system to the rear seat, adjust the front seat position so that the front seat does not contact the child-restraint system.
  Refer to Adjusting the Driver's Seat on page 2-5.
  Refer to Adjusting the Front Passenger's Seat on page 2-13.
- When installing a child-restraint system came equipped with a tether, remove the head restraint.
  Refer to Head Restraints on page 2-20.
- An i-Size child-restraint system refers to a child-restraint system which has acquired i-Size category certification for the UN-R 129 regulation.

When installing a child-restraint system to the rear seat, refer to the child-restraint system manufacturer's instructions and the Using ISOFIX Lower Anchor on page 2-52.

Seating position	Passenger	Rear (Left)	Rear (Center)	Rear (Right)
Seating position suitable for universal belted (Yes/No)	No	Yes (U)	No	Yes (U)

Seating position	Passenger	Rear (Left)	Rear (Center)	Rear (Right)
i-Size seating position (Yes/No)	No	Yes (i-U)	No	Yes (i-U)
Largest suitable rearward facing fixture (R1)	No	Yes (IL)	No	Yes (IL)
Largest suitable rearward facing fixture (R2)	No	Yes (IL)	No	Yes (IL)
Largest suitable rearward facing fixture (R2X)	No	Yes (IL)	No	Yes (IL)
Largest suitable rearward facing fixture (R3)	No	Yes (IL)	No	Yes (IL)
Largest suitable forward facing fixture (F2)	No	Yes (IUF)	No	Yes (IUF)
Largest suitable forward facing fixture (F2X)	No	Yes (IUF)	No	Yes (IUF)
Largest suitable forward facing fixture (F3)	No	Yes (IUF)	No	Yes (IUF)
Largest suitable lateral facing fixture (L1)	No	No	No	No
Largest suitable lateral facing fixture (L2)	No	No	No	No
Largest suitable booster fixture (B2)	No	Yes (IUF)	No	Yes (IUF)
Largest suitable booster fixture (B3)	No	Yes (IUF)	No	Yes (IUF)
Non i-size compatible with a support leg (Yes/No)	Yes*1	Yes	No	Yes
Lower ISOFIX anchorages but without Top Tether (Yes/No)	No	No	No	No

U = Suitable for “universal” category restraints approved for use in this mass group.
UF = Suitable for forward-facing “universal” category restraints approved for use in this mass group.
IUF = Suitable for ISOFIX forward child restraints systems of universal category approved for use in the mass group.

Child Restraint

L = Suitable for particular child restraints given on attached list. These restraints may be of the “specific vehicle”, “restricted” or “semi-universal” categories.
IL = Suitable for particular ISOFIX child restraint systems (CRS) given in the attached list. These ISOFIX CRS are those of the “specific vehicle”, “restricted” or “semi-universal” categories.
i-U = Suitable for i-Size “universal” Child Restraint Systems forward and rearward facing.
i-UF = Suitable for forward-facing i-Size “universal” Child Restraint Systems only.
Yes = Child-restraint system can be secured on the seat.
No = Child-restraint system cannot be secured on the seat, or there is no fixture.
X = Child-restraint system cannot be installed.
*1 Child restraint system can only be installed in the forward-facing position.
A Mazda genuine child-restraint system can be installed. Regarding child-restraint systems which can be installed, refer to the accessories catalog.
(Except Mexico)

- Regarding child-restraint systems which can be installed to your Mazda, consult an Authorized Mazda Dealer.
- A child-restraint system with a support leg cannot be installed on the rear center seat position.
- Please comply with the legal regulations concerning the use of child-restraint systems in your country.
- For the CRS which do not carry the ISO/XX size class identification (A to G), for the applicable mass group, the child seat manufacturer shall indicate the vehicle specific LATCH child-restraint systems recommended for each position.

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.

NOTE
Even if your vehicle is equipped with front passenger occupant classification sensor (page 2-72), 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 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.

Some child-restraint systems also employ specially designed ISOFIX/LATCH*1 attachments; refer to "Using ISOFIX Lower Anchor (Mexico)/Using LATCH Lower Anchor (Except Mexico)" (page 2-52).

*1 ISOFIX (Mexico)/LATCH (Except Mexico)

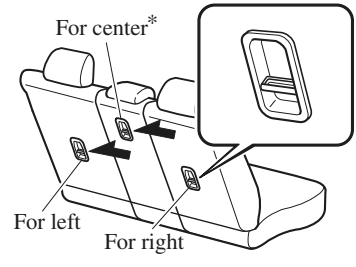
⚠ WARNING

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.

▼ Anchor Bracket

Anchor brackets for securing child-restraint systems are equipped in the vehicle. Locate each anchor position using the illustration.
To install a child-restraint system, remove the head restraint. Always follow the instruction manual accompanying the child-restraint system.

Anchor bracket location
Use the indicated anchor bracket locations when installing a child-restraint system equipped with a tether.

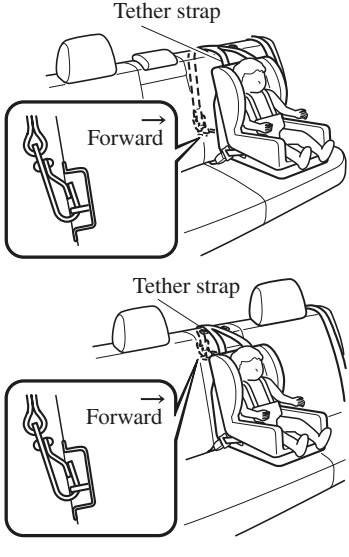


* Except Mexico

⚠ WARNING

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.
(Mexico)
If the top tether strap does not reach the anchor bracket, purchase and use an extension strap provided by the CRS manufacturer.

Always remove the head restraint and install child-restraint system:
Installing a child-restraint system without removing the head restraint is dangerous. The child-restraint system cannot be installed correctly which may result in death or injury to the child in a collision.



Always install the head restraint and adjust it to the appropriate position after removing the child-restraint system:
Driving with the head restraint removed is dangerous as impact to the occupant's head cannot be prevented during emergency braking or in a collision, which could result in a serious accident, injury or death.
Refer to Head Restraints on page 2-20.

▼ Using Automatic Locking Mode (Except Mexico)

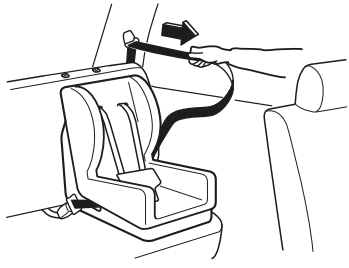
Follow these instructions when using a child-restraint system, unless you are attaching a LATCH-equipped child-restraint system to the rear LATCH lower anchors. Refer to “Using LATCH Lower Anchor” (page 2-52).

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.

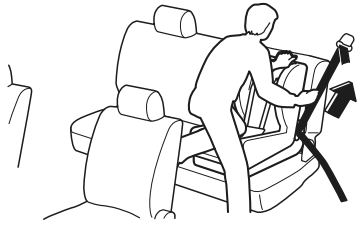
1. If the rear seat is reclined, return it to the upright position.
2. Make sure the seatback is securely latched by pushing it back until it is fully locked.
3. Remove the head restraint. However, when installing a backless booster seat, always install the vehicle head restraint to the seat where the backless booster seat is installed.

Refer to Head Restraints on page 2-20.

4. 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.
5. 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.



6. 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

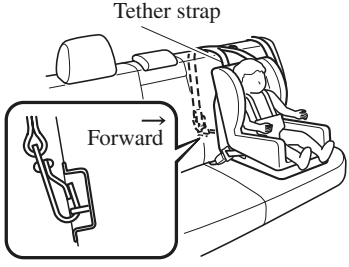
- *Inspect this function before each use of the child-restraint system. You should not be able to pull the shoulder belt out of the retractor while the system is in the automatic locking mode. When you remove the child-restraint system, be sure the belt fully retracts to return the system to emergency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

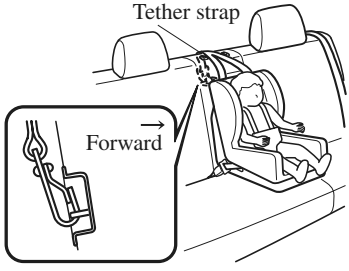
7. If your child-restraint system requires the use of a tether strap, refer to the manufacturer's instructions to hook and tighten the tether strap.

⚠ 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 remove the head restraint and install child-restraint system (except when installing a backless booster seat):
Installing a child-restraint system without removing the head restraint is dangerous. The child-restraint system cannot be installed correctly which may result in death or injury to the child in a collision.





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.
If the top tether strap does not reach the anchor bracket, purchase and use an extension strap provided by the CRS manufacturer.

Always install the head restraint and adjust it to the appropriate position after removing the child-restraint system:
Driving with the head restraint removed is dangerous as impact to the occupant's head cannot be prevented during emergency braking or in a collision, which could result in a serious accident, injury or death.
Refer to Head Restraints on page 2-20.

▼ 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 whether your vehicle is equipped with an occupant classification sensor or not.
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 ISOFIX/LATCH*1 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 since your vehicle has side and curtain air bags, 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.

*1 ISOFIX (Mexico)/LATCH (Except Mexico)

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, you should not use a rear-facing child-restraint system in the front seat.

Do not allow a child or anyone to lean over to or against the side window of a vehicle with side and curtain air bags:
It is dangerous to allow anyone to lean over to 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 to or against the door could block the side and curtain air bags and eliminate the advantages of supplemental protection. Because the front seats are equipped with front air bags, the rear seat is always a better location for children. Take special care not to allow a child to lean over to or against the side window, even if the child is seated in a child-restraint system.

Always remove the head restraint and install child-restraint system (except when installing a backless booster seat):
Installing a child-restraint system without removing the head restraint is dangerous. The child-restraint system cannot be installed correctly which may result in death or injury to the child in a collision.

Always install the head restraint and adjust it to the appropriate position after removing the child-restraint system:
Driving with the head restraint removed is dangerous as impact to the occupant's head cannot be prevented during emergency braking or in a collision, which could result in a serious accident, injury or death.
Refer to Head Restraints on page 2-20.

Front Passenger's Seat Child-Restraint System Installation (With Front Passenger Occupant Classification System)

1. Make sure the ignition is switched off.
2. Slide the seat as far back as possible.

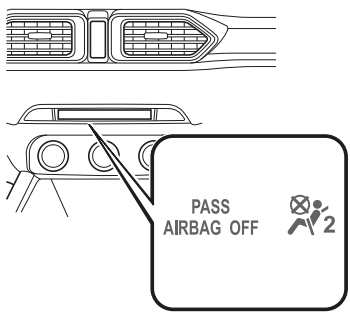


3. Remove the head restraint. However, when installing a backless booster seat, always install the vehicle head restraint to the seat where the backless booster seat is installed.
4. Place the child-restraint system on the seat without putting your weight on the seat and fasten the seat belt. See the manufacturer's instructions on the child-restraint system for belt routing instructions.
5. 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.
6. 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.

7. Seat your child safely in the child-restraint system and secure the child according to the instructions from the child-restraint system manufacturer.
8. Switch the ignition ON and make sure the front passenger air bag deactivation indicator light illuminates after installing a child-restraint system on the front passenger seat.
   If the front passenger air bag deactivation indicator light does not illuminate, remove the child-restraint system, switch the ignition to OFF, and then re-install the child-restraint system (page 2-72).



⚠ 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 2-72). 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, this means that the front passenger front and side air bags, and seat belt pretensioners 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.*

▼ Using ISOFIX Lower Anchor (Mexico)/Using LATCH Lower Anchor (Except Mexico)

Your Mazda is equipped with ISOFIX/LATCH[*1] lower anchors for attachment of specially designed ISOFIX/LATCH[*1] child-restraint systems in the rear seats. Both anchors must be used, otherwise the seat will bounce around and put the child in danger. Most ISOFIX/LATCH[*1] 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 ISOFIX/LATCH[*1] lower anchor:
*Attaching two child-restraint systems to the same ISOFIX/LATCH[*1] 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 ISOFIX/LATCH[*1] 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 attach it to BOTH ISOFIX/LATCH[*1] lower anchors for ISOFIX/LATCH[*1] child-restraint systems.*

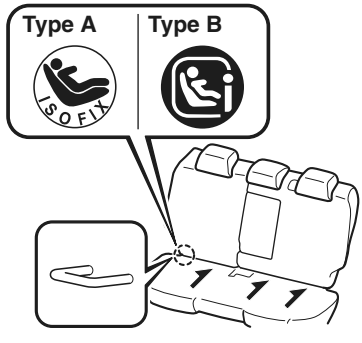
Make sure there are no seat belts or foreign objects near or around the ISOFIX/LATCH*1 child-restraint system:

*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 ISOFIX/LATCH*1 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 ISOFIX/LATCH*1 lower anchors. Always follow the child-restraint system manufacturer's instructions.*

*1 ISOFIX (Mexico)/LATCH (Except Mexico)

Installation on rear outboard seats

1. First, adjust the front seat to allow clearance between the child-restraint system and the front seat.
   Refer to Adjusting the Driver's Seat on page 2-5.
   Refer to Adjusting the Front Passenger's Seat on page 2-13.
2. If the rear seat is reclined, return it to the upright position.
3. Make sure the seatback is securely latched by pushing it back until it is fully locked.
4. Expand the open seams on the rear of the seat bottom slightly to verify the locations of the ISOFIX/LATCH*1 lower anchors.



NOTE

- *The markings above the ISOFIX/LATCH*1 lower anchors indicate the locations of the ISOFIX/LATCH*1 lower anchors for the attachment of a child-restraint system.*

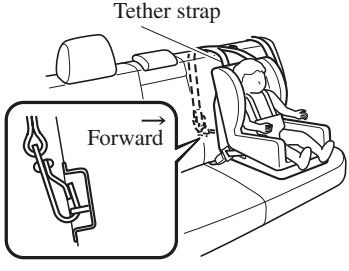
5. Remove the head restraint. However, when installing a backless booster seat, always install the vehicle head restraint to the seat where the backless booster seat is installed.
   Refer to Head Restraints on page 2-20.
6. Secure the child-restraint system using BOTH ISOFIX/LATCH*1 lower anchors, following the child-restraint system manufacturer's instruction. Pull on the child-restraint to be sure both anchors are engaged.
7. 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.

*1 ISOFIX (Mexico)/LATCH (Except Mexico)

⚠ 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 remove the head restraint and install child-restraint system (except when installing a backless booster seat):
Installing a child-restraint system without removing the head restraint is dangerous. The child-restraint system cannot be installed correctly which may result in death or injury to the child in a collision.



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.

Always install the head restraint and adjust it to the appropriate position after removing the child-restraint system:
Driving with the head restraint removed is dangerous as impact to the occupant's head cannot be prevented during emergency braking or in a collision, which could result in a serious accident, injury or death.
Refer to Head Restraints on page 2-20.

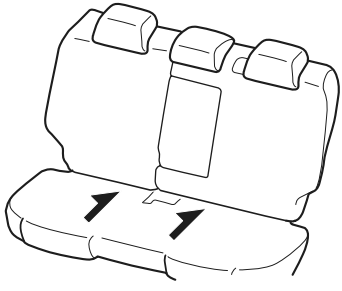
Installation on rear center seat

The ISOFIX/LATCH*1 lower anchors at the center of the rear seat are much further apart than the sets of ISOFIX/LATCH*1 lower anchors for child-restraint system installation at other seating positions. Child-restraint systems with rigid ISOFIX/LATCH*1 attachments cannot be installed on the center seating position. Some ISOFIX/LATCH*1 equipped child-restraint systems can be placed in the center position and will reach the nearest ISOFIX/LATCH*1 lower anchors which are 406 mm (16.0 in) apart. ISOFIX/LATCH*1 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 ISOFIX/LATCH*1 lower anchors that are 406 mm (16.0 in) apart. Do not attach two child-restraint systems to the same ISOFIX/LATCH*1 lower anchor. If your child-restraint system has a tether, it must also be used for your child's optimum safety.

The procedure for installation on the rear outboard seats is the same.

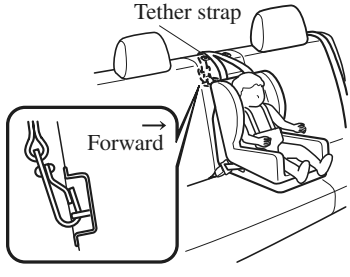
*1 ISOFIX (Mexico)/LATCH (Except Mexico)

ISOFIX/LATCH*1 lower anchor location



⚠ WARNING

Always remove the head restraint and install child-restraint system (except when installing a backless booster seat):
Installing a child-restraint system without removing the head restraint is dangerous. The child-restraint system cannot be installed correctly which may result in death or injury to the child in a collision.



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.

Always install the head restraint and adjust it to the appropriate position after removing the child-restraint system:
Driving with the head restraint removed is dangerous as impact to the occupant's head cannot be prevented during emergency braking or in a collision, which could result in a serious accident, injury or death.
Refer to Head Restraints on page 2-20.

*1 ISOFIX (Mexico)/LATCH (Except Mexico)

Supplemental Restraint System (SRS) Precautions

The front and side supplemental restraint systems (SRS) include different types of air bags. **Please verify the different types of air bags which are 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)

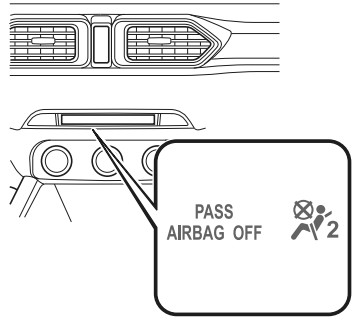
Vehicles with the Front Passenger Occupant Classification System have a sensor which detects an impending roll-over accident.

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 or 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.

If your vehicle is also equipped with a front passenger occupant classification system, refer to the Front Passenger Occupant Classification System (page 2-72) for details.
If your vehicle is equipped with a 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 2-35).

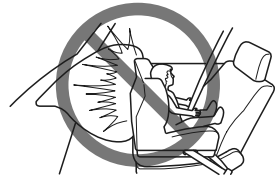
Carefully consider which child-restraint system is necessary for your child and follow the installation directions in this Owner's Manual as well as the child-restraint system manufacturer's instructions.

⚠ 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 or side collisions or roll-over accidents 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. A sleeping child is more likely to lean against the door and be hit by the side air bag in moderate collision to the front-passenger side of the vehicle. Whenever possible, always secure a child 12 years and under on the rear seats with an appropriate child-restraint system for the child's age and size.

Never use a rear-facing child-restraint system in the front seat with an air bag that could deploy:
Rear-facing child-restraint systems on the front seat are particularly dangerous even though you may feel assured that a front passenger air bag will not deploy based on the fact that the front passenger air bag deactivation indicator light illuminates. The child-restraint system can be hit by a deploying air bag and moved violently backward resulting in serious injury or death to the child.



Do not sit too close to the driver and front passenger air bags:
Sitting too close to the driver and front passenger air bag modules or placing hands or feet on them is extremely dangerous. The driver and front passenger air bags inflate with great force and speed. Serious injuries could occur if someone is too close. The driver should always hold onto only the rim of the steering wheel. The front seat passenger should keep both feet on the floor. Front seat occupants should adjust their seats as far back as possible and always sit upright against the seatbacks with seat belts worn properly.

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 air bags deploy:
Attaching objects to the air bags or placing something in the area where the air bags deploy is dangerous. In an accident, an object could interfere with air bag inflation and injure the occupants. Furthermore, the bag could be damaged causing gases to release. Always keep the deployment area of the air bag modules free of any obstructions.
For example, you should not do any of the following as it may interfere with air bag deployment.

- *Do not put a covering on or lean anything against areas such as the dashboard and lower portion of the instrument panel that blocks the passenger front air bag.*
- *Do not use seat covers on the front seats equipped with in-seat side air bags.*

- *Do not hang any backpacks, bags or pouches that cover the sides of the seats that block the side air bags.*
- *Do not place any objects on the assist grips. Only hang clothes directly on the coat hooks.*

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 9-12) 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 modify a front door or leave any damage unrepaired. Always have an Authorized Mazda Dealer inspect a damaged front door:
Modifying a front door or leaving any damage unrepaired is dangerous. Each front door has a side crash sensor as a component of the supplemental restraint system. If holes are drilled in a front door, a door speaker is left removed, or a damaged door is left unrepaired, the sensor could be adversely affected causing it to not detect the pressure of an impact correctly during a side collision. If a sensor does not detect a side impact correctly, the side and curtain air bags and the front seat belt pretensioner may not operate normally which could result in serious injury to occupants.

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, and that the front passenger occupant classification system and the seats retain an undamaged air bag connection.

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 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.

Properly dispose of the air bag system:
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 could result. Have an Authorized Mazda Dealer safely dispose of the air bag system or 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 8-2).*
- *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.*
- *This highly-visible label is displayed which warns against the use of a rear-facing child-restraint system on the front passenger seat.*

(Except Mexico)

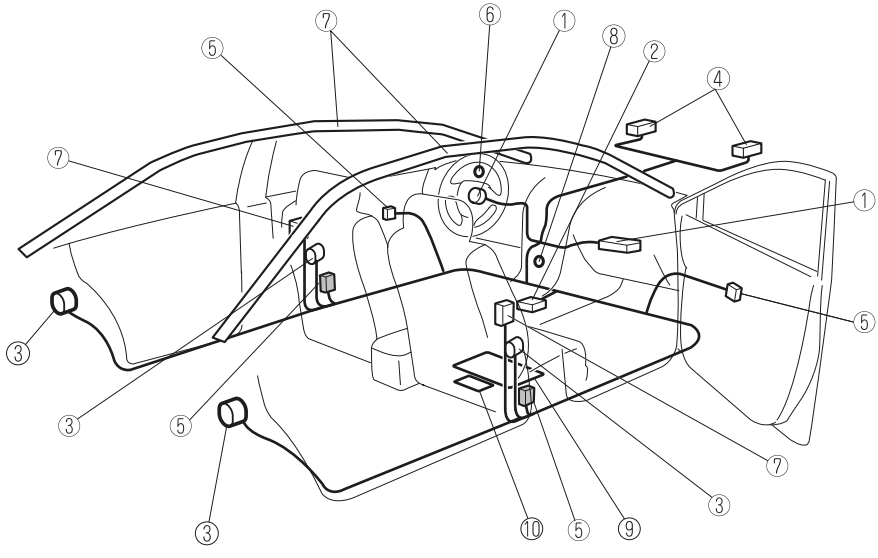


(Mexico)

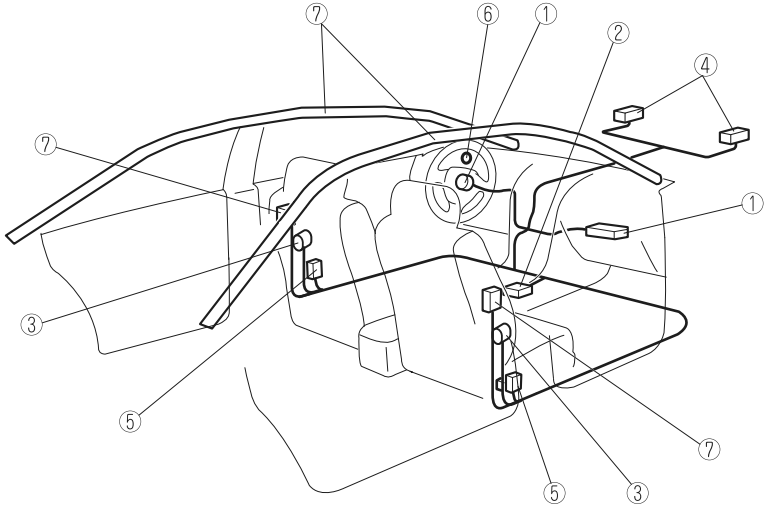


Supplemental Restraint System Components

(With Front Passenger Occupant Classification System)



(Without Front Passenger Occupant Classification System)



① Driver/Front passenger inflators and air bags

② Roll-over sensor*, crash sensors, and diagnostic module (SAS unit)
③ Seat belt pretensioners (page 2-31)
④ Front air bag sensors
⑤ Side crash sensors
⑥ Air bag/seat belt pretensioner system warning light (page 7-25)
⑦ Side and curtain inflators and air bags
⑧ Front passenger air bag deactivation indicator light* (page 2-72)
⑨ Front passenger occupant classification sensor* (page 2-72)
⑩ Front passenger occupant classification module*

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.

▼ Seat Belt Pretensioners

The pretensioners operate differently depending on what types of air bags are equipped. For more details about seat belt pretensioner operation, refer to the SRS Air Bag Deployment Criteria (page 2-68).

Front

The front seat belt pretensioners are designed to deploy in moderate or severe frontal, near frontal collisions.
In addition, the pretensioners operate when a side collision or a roll-over accident (with roll-over sensor) is detected.

Rear Outboard*

The rear outboard seat belt pretensioners are designed to deploy in moderate or severe frontal, near frontal collisions.
In addition, the pretensioners operate when a side collision or a roll-over accident is detected.

 *Some models.

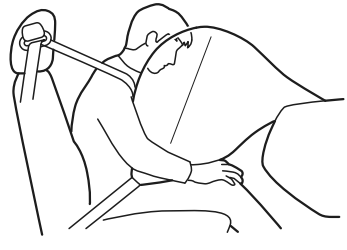
▼ Driver Air Bag

The driver's air bag is mounted in the steering wheel.
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.
For more details about air bag deployment, refer to "SRS Air Bag Deployment Criteria" (page 2-68).
(With Front Passenger Occupant Classification System)
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.



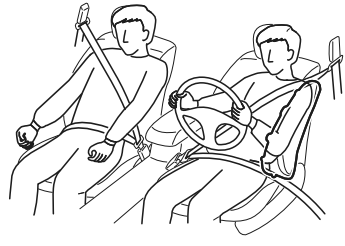
▼ Front Passenger Air Bag

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.
For more details about air bag deployment, refer to "SRS Air Bag Deployment Criteria" (page 2-68).
(With Front Passenger Occupant Classification System)
In addition, the front passenger air bag is designed to only deploy when the front passenger occupant classification sensor detects a passenger sitting on the front passenger's seat. For details, refer to the front passenger occupant classification system (page 2-72).



▼ Side Air Bags

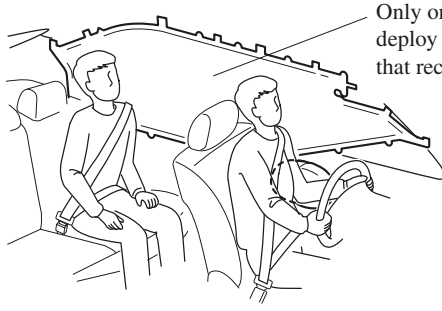
The side air bags are mounted in the outboard sides of the front seatbacks.
When the air bag crash sensors detect a side impact of greater than moderate force, the system inflates the side air bag only on the side in which the vehicle was hit. The side air bag inflates quickly to reduce injury to the driver or front passenger's chest caused by directly hitting interior parts such as a door or window.
For more details about air bag deployment, refer to "SRS Air Bag Deployment Criteria" (page 2-68).
(With Front Passenger Occupant Classification System)
In addition, the front passenger side air bag is designed to only deploy when the front passenger occupant classification sensor detects a passenger sitting on the front passenger's seat. For details, refer to the front passenger occupant classification system (page 2-72).



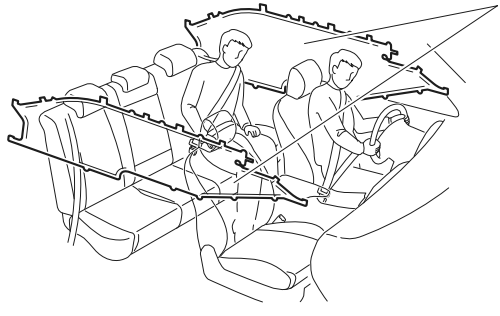
▼ Curtain Air Bags

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.
For more details about air bag deployment, refer to "SRS Air Bag Deployment Criteria" (page 2-68).

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.



(With Front Passenger Occupant Classification System)
In a roll-over:
In response to a vehicle roll-over, both curtain air bags inflate.

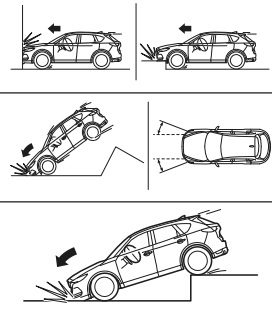
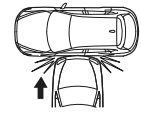
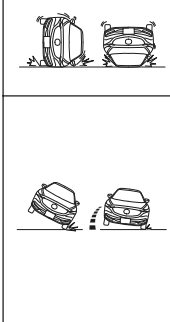


▼ Warning Light/Beep

A system malfunction or operation conditions are indicated by a warning.
Refer to Contact an Authorized Mazda Dealer and Have Vehicle Inspected on page 7-25.
Refer to Warning Sound is Activated on page 7-39.

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.)

SRS equipment	Types of collision			
	A severe frontal/near frontal collision	A severe side collision*2	A roll-over/near roll-over*3	A rear collision
				
Front seat belt pretensioner	X*1	X*1	X*1	No air bag and seat belt pretensioner will be activated in a rear collision.
Rear seat belt pretensioner*	X	X	X	
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 **(With Front Passenger Occupant Classification System)**
The front passenger front and side air bags and the seat belt pretensioner are designed to deploy when the front passenger occupant classification sensor detects a passenger sitting on the front passenger's seat.

*2 In a side collision, the seat belt pretensioners and the side/curtain air bags deploy.

*3 **(With Front Passenger Occupant Classification System)**
In a roll-over accident, the seat belt pretensioners and the curtain air bags deploy.

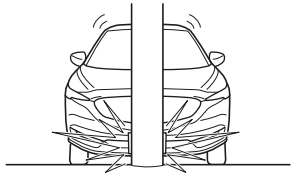
NOTE
In a frontal offset collision, the equipped air bags and pretensioners may all deploy depending on the direction, angle, and rate of impact.

Limitations to SRS Air Bag

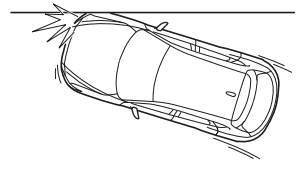
In severe collisions such as those described previously in "SRS Air Bag Deployment Criteria", the applicable SRS air bag equipment will deploy. However, in some accidents, the equipment may not deploy depending on the type of collision and its severity.

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.

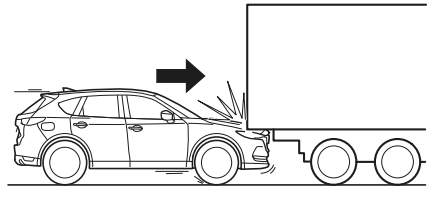
Impacts involving trees or poles



Frontal offset impact to the vehicle

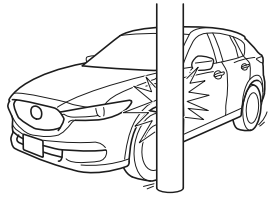


Rear-ending or running under a truck's tail gate

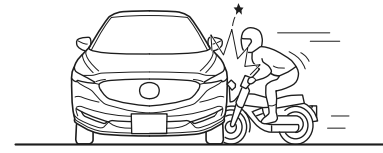


Limitations to side collision detection:
The following illustrations are examples of side collisions that may not be detected as severe enough to deploy the SRS air bag equipment.

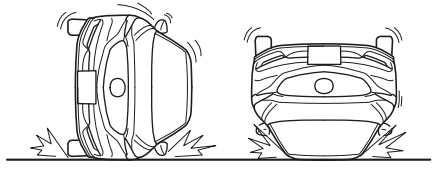
Side impacts involving trees or poles



Side impacts with two-wheeled vehicles

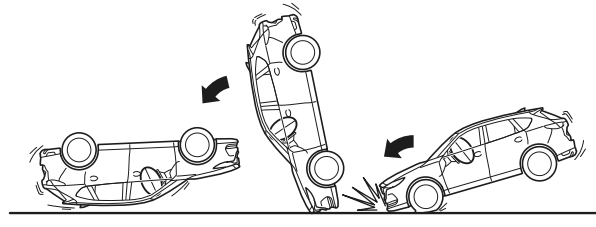


Roll-over (Without Front Passenger Occupant Classification System)



(With Front Passenger Occupant Classification System)
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



Front Passenger Occupant Classification System*

First, please read "Supplemental Restraint System (SRS) Precautions" (page 2-56) carefully.

▼ Front Passenger Occupant Classification Sensor

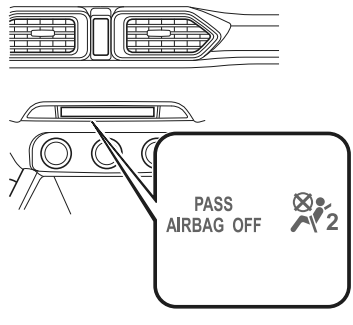
Your vehicle is equipped with a front passenger occupant classification sensor as a part of the supplemental restraint system. This sensor is equipped in the front passenger's seat cushion. This sensor measures the electrostatic capacity of the front passenger's seat. The SAS unit is designed to prevent the front passenger front and side air bags and seat belt pretensioner system from deploying if the front passenger air bag deactivation indicator light turns on.
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 the front passenger air bag deactivation indicator light turns on. Refer to the following table for the front passenger air bag deactivation indicator light illumination conditions.

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 turns on 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 turns on to remind you that the front passenger front and side air bags and seat belt pretensioner will not deploy during a collision.



 *Some models.

If the front passenger occupant classification sensor is normal, the indicator light turns on when the ignition is switched ON. The light turns off after a few seconds. Then, the indicator light turns on or is off under the following conditions:

Front passenger air bag deactivation indicator light on/off condition chart

Condition detected by the front passenger occupant classification system	Front passenger air bag deactivation indicator light	Front passenger front and side air bags	Front passenger seat belt pretensioner system
Empty (Not occupied)	On	Deactivated	Deactivated
A child less than 1 year old is seated in a child-restraint system	On	Deactivated	Deactivated
Child*1	On or off	Deactivated or ready	Deactivated or ready
Adult*2	Off	Ready	Ready

*1 The occupant classification sensor may not detect a child seated on the seat, in a child-restraint system, or a junior seat depending on the child's physical size and seated posture.

*2 If a smaller adult sits on the front passenger seat, the sensors might detect the person as being a child depending on the person's physique.

The curtain air bag is ready for inflating regardless of what the front passenger air bag deactivation indicator light on/off condition chart indicates.

If the front passenger air bag deactivation indicator light does not turn on when the ignition is switched ON and does not turn on as indicated in the front passenger air bag deactivation indicator light on/off condition chart, do not allow an occupant 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.

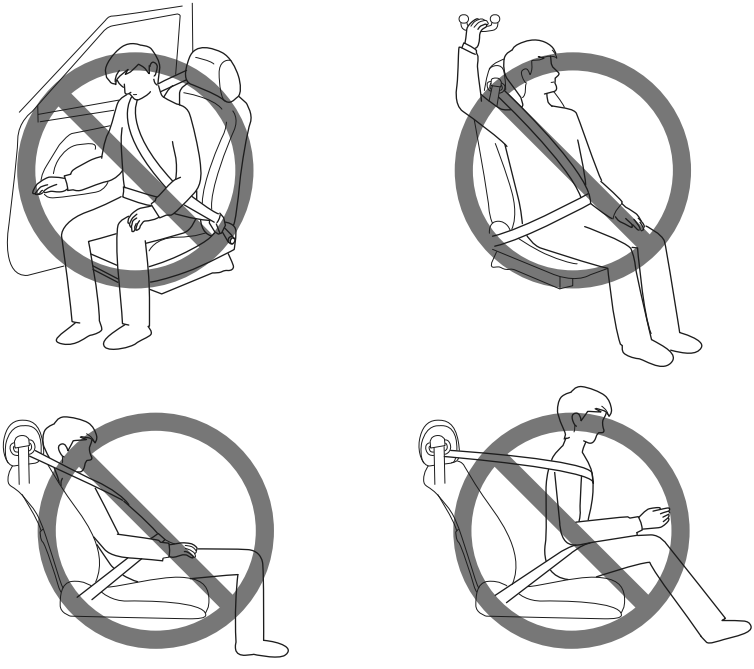
⚠ WARNING

Do not allow an occupant in the front passenger's seat to sit with a posture which makes it difficult for the front passenger occupant classification sensor to detect the occupant correctly:

Sitting in the front passenger's seat with a posture which makes it difficult for the front passenger occupant classification sensor to detect the occupant correctly is dangerous. If the front passenger occupant classification sensor cannot detect the occupant sitting on the front passenger's seat correctly, the front passenger front and side air bags and pretensioner system may not operate (non-deploy) or they may operate (deploy) accidentally. The front passenger will not have the supplementary protection of the air bags or the accidental operation (deployment) of the air bags could result in serious injury or death.

Under the following conditions, the front passenger occupant classification sensor cannot detect a passenger sitting on the front passenger's seat correctly and the deployment/non-deployment of the air bags cannot be controlled as indicated in the front passenger air bag deactivation indicator light on/off condition chart. For example:

- *A front passenger is seated as shown in the following figure:*



- *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.*
- *An object, such as a seat cushion, is put on the front passenger's seat or between the passenger's back and the seatback.*
- *A seat cover is put on the front passenger's seat.*
- *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.*
- *Luggage or other items are placed on the seatback or hung on the head restraint.*
- *The seat is washed.*
- *Liquids are spilled on the seat.*
- *The front passenger seat is moved backward, pushing into luggage or other items placed behind it.*
- *The front passenger seatback contacts the rear seat.*
- *Luggage or other items are placed between the front passenger seat and driver seat.*
- *An electric device is put on the front passenger's seat.*
- *An additional electrical device, such as a seat warmer is installed to the surface of the front passenger seat.*

The front passenger front and side air bags and seat belt pretensioner systems will deactivate if the front passenger air bag deactivation indicator light turns on.

⚠ CAUTION

- *To assure proper deployment of the front air bag and to prevent damage to the sensor in the front seat cushion:*
  - *Do not place sharp objects on the front seat cushion 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 2-48).*

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 turn on 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 turn on for 10 seconds if the electrostatic capacity on the front passenger seat changes.*
- *The air bag/front seat belt pretensioner system warning light might turn on if the front passenger seat receives a severe impact.*
- *If the front passenger air bag deactivation indicator light does not turn on after installing a child-restraint system on the front passenger seat, first, re-install your child-restraint system according to the procedure in this owner's manual. Then, if the front passenger air bag deactivation indicator light still does not turn on, install the child-restraint system on the rear seat and consult an Authorized Mazda Dealer as soon as possible.*
- *If the front passenger air bag deactivation indicator light turns on when an occupant is seated directly in the front passenger seat, have the passenger re-adjust their posture by sitting with their feet on the floor, and then re-fastening the seat belt. If the front passenger air bag deactivation indicator light remains turned on, move the passenger to the rear seat. If sitting in the rear seat is not possible, slide the front passenger seat as far back as possible. 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.

Constant Monitoring

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

- Front air bag sensors
- Crash sensors, and diagnostic module (SAS unit)
- Side crash sensors
- Air bag modules
- Seat belt pretensioners
- Air bag/Seat belt pretensioner system warning light
- Related wiring

(With Front Passenger Occupant Classification System)

- Front passenger occupant classification sensor
- Front passenger occupant classification module
- Front passenger air bag deactivation indicator light

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

MEMO

3 Before Driving

Use of various features, including keys, doors, mirrors and windows.

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*Some models.

Keys

⚠ WARNING

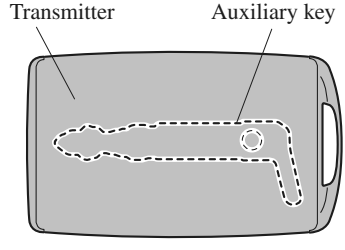
Do not leave the key in your vehicle with children and keep them in a place where your children will not find or play with them:
Leaving children in a vehicle with the key is dangerous. This could result in someone being badly injured or even killed. Children may find these keys to be an interesting toy to play with and could cause the power windows or other controls to operate, or even make the vehicle move.

⚠ CAUTION

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

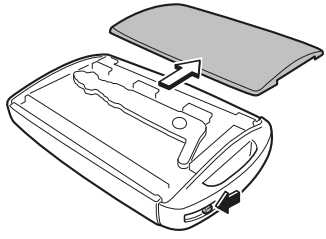
NOTE

- *The driver must carry the key to ensure the system functions properly.*
- *If the key (transmitter) does not function normally, make sure that the power saving function of the key (transmitter) is not on. If it is on, switch the function to off.*
  Refer to Transmitter on page 3-5.

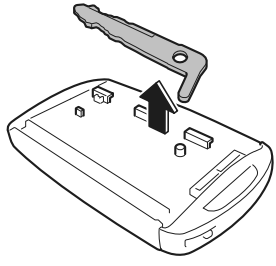


Removing the auxiliary key

1. Remove the lower cover while sliding the knob in the direction of the arrow.

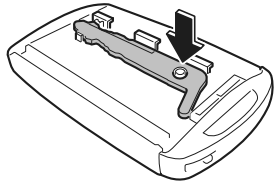


2. Remove the auxiliary key.

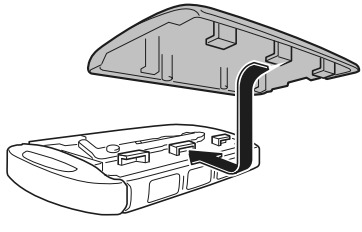


Installing the auxiliary key

1. Install the auxiliary key as the illustration.



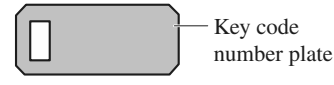
2. Insert the tabs of the lower cover into the slots of the transmitter and install the lower cover.



Key code number plate

A code number is stamped on the plate attached to the key set; detach this plate and store it in a safe place (not in the vehicle) for use if you need to make a replacement key (auxiliary key).
Also write down the code number and keep it in a separate safe and convenient place, but not in the vehicle.

If your key (auxiliary key) is lost, consult an Authorized Mazda Dealer, and have your code number ready.



Keyless Entry System

This system uses the key buttons to remotely lock and unlock the doors and the liftgate, and opens/closes the liftgate. The system can start the engine without having to take the key out of your purse or pocket.
It can also help you signal for attention or help.
Operating the theft-deterrent system is also possible on theft-deterrent system-equipped vehicles.

System malfunctions or warnings are indicated by the following warning lights or beeps.
For vehicles with the type A/type B instrument cluster, check the displayed message for more information and, if necessary, have the vehicle inspected at an Authorized Mazda Dealer, according to the indication.

- KEY Warning Light (Red)
  Refer to Contact Authorized Mazda Dealer and Have Vehicle Inspected on page 7-25.
  Refer to Taking Action on page 7-31.
- Ignition Not Switched Off (STOP) Warning Beep
  Refer to Ignition Not Switched Off (STOP) Warning Beep on page 7-40.
- Key Removed from Vehicle Warning Beep
  Refer to Key Removed from Vehicle Warning Beep on page 7-40.

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

If your key is lost or stolen, consult an Authorized Mazda Dealer as soon as possible for a replacement and to make the lost or stolen 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.

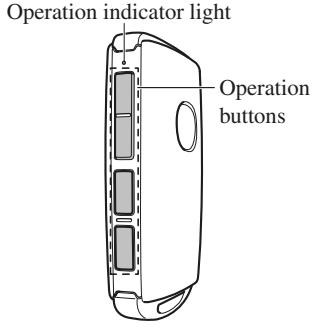
NOTE

- *The keyless entry system operation may vary due to local conditions.*
- *The keyless entry system is fully operational (door/liftgate lock/unlock) when the ignition is switched off. The system does not operate if the ignition is switched to any position other than off.*
- *If the key does not operate when pressing a button or the operational range becomes too small, the battery may be weak. To install a new battery, refer to Key Battery Replacement (page 6-33).*
- *Battery life is about 1 year. Replace the battery with a new one if the KEY indicator light (green) flashes in the instrument cluster (for vehicles with a type A/type B instrument cluster (page 4-18, 4-36), messages are displayed in the instrument cluster). Replacing the battery about once a year is recommended because the KEY warning light/indicator light may not illuminate or flash depending on the rate of battery depletion.*



・*Additional keys can be obtained at an Authorized Mazda Dealer. Up to 6 keys can be used with the keyless functions per vehicle. Bring all keys to the Authorized Mazda Dealer when additional keys are required.*

▼ Transmitter



NOTE

・*The headlights turn on/off by operating the transmitter. Refer to Leaving Home Light on page 4-81.*
・***(With theft-deterrent system)***
The hazard warning lights flash when the theft-deterrent system is armed or turned off.
Refer to Theft-Deterrent System on page 3-44.
・***(With the advanced keyless function)***
A beep sound can be heard for confirmation when the doors and the liftgate are locked/unlocked using the key. If you prefer, the beep sound can be turned off.
The volume of the beep sound can also be changed.
Refer to the Mazda Connect Owner's Manual or consult an Authorized Mazda Dealer.

Use the following procedure to change the setting.
1. *Switch the ignition off and close all of the doors and the liftgate.*
2. *Open the driver's door.*
3. *Within 30 seconds of opening the driver's door, press and hold the LOCK button on the key for 5 seconds or longer (All of the doors and the liftgate are locked and unlocked when the LOCK button on the key is pressed and held for 5 seconds.).*
   The beep sound activates at the currently set volume. The setting changes each time the LOCK button on the key is pressed and the beep sound activates at the set volume. (If the beep sound has been set to not activate, it will not activate.)
4. *The setting change is completed by doing any one of the following:*
   ・*Switching the ignition to ACC or ON.*
   ・*Closing the driver's door.*
   ・*Opening the liftgate.*
   ・*Not operating the key for ten seconds.*
   ・*Pressing any button except the LOCK button on the key.*
   ・*Pressing a request switch.*

The operation indicator light flashes when the buttons are pressed.

Lock button

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

(With the advanced keyless function)
A beep sound will be heard once.

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



NOTE

- *The doors and the liftgate can be locked by pressing the lock button while any other door or the liftgate is open. The hazard warning lights will not flash. When the lock button is pressed while any door is open and then the door is closed, all the doors and the liftgate are locked.*
- *Confirm that all doors and the liftgate are locked visually or audibly by use of the double click.*
- *Make sure all doors and the liftgate are locked after pressing the button.*
- ***(With theft-deterrent system)***
  When the doors are locked by pressing the lock button on the key while the theft-deterrent system is armed, the hazard warning lights will flash once to indicate that the system is armed.

Unlock button

To unlock the driver's door, press the unlock button and the hazard warning lights will flash twice.
(With the advanced keyless function)
A beep sound will be heard twice.

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



NOTE

- *The system can be set to unlock all doors by performing a single operation. Refer to the Mazda Connect Owner's Manual or consult an Authorized Mazda Dealer.*
  Use the following procedure to change the setting.
  1. *Switch the ignition off and close all of the doors and the liftgate.*
  2. *Open the driver's door.*
  3. *Within 30 seconds of opening the driver's door, press and hold the UNLOCK button on the key for 5 seconds or longer (the sound of the doors locking/unlocking can be heard).*
     After this, the system switches the setting each time the UNLOCK button is pressed (the sound of the doors locking/unlocking can be heard).
  4. *The setting change is completed by doing any one of the following:*
     - *Switching the ignition to ACC or ON.*
     - *Closing the driver's door.*
     - *Opening the liftgate.*
     - *Not operating the key for ten seconds.*
     - *Pressing any button except the UNLOCK button on the key.*
     - *Pressing a request switch.*

・ ***(Auto re-lock function)***
After unlocking with the key, all doors and the liftgate will automatically lock if any of the following operations are not performed within about 60 seconds. If your vehicle has a theft-deterrent system, the hazard warning lights will flash for confirmation.
The time required for the doors to lock automatically can be changed.
Refer to the Mazda Connect Owner's Manual or consult an Authorized Mazda Dealer.

  ・ *A door or the liftgate is opened.*
  ・ *The ignition is switched to any position other than off.*

・ ***(With theft-deterrent system)***
When the doors are unlocked by pressing the unlock button on 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.

Power liftgate button*

To open/close the liftgate, press the power liftgate button for one second or longer with the liftgate in the fully closed/open position.
The hazard warning lights flash twice and the liftgate opens/closes after the beep sounds.



Panic button

If you witness from a distance someone attempting to break into or damage your vehicle, press and hold the panic button to activate the vehicle's alarm. Call emergency services if necessary.



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 longer 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)

The alarm stops by pressing any button on the key.

Power saving function

By turning on the transmitter power saving function, the advanced keyless entry*1 and push button start system functions turn off and the battery power consumption of the transmitter is restricted.
The remote control function is operational by operating the transmitter switch even while the power saving function is turned on. However, the operation indicator light of the transmitter does not turn on/flash.

*Some models.

Turning on the power saving function

After you have turned on the power saving function according to the following procedure, the hazard warning lights and sound operate*1 one time.

1. Press the lock button on the transmitter 4 times within 3 seconds to turn on the operation indicator light.
2. Press the lock button continuously for 1.5 seconds or longer while the operation indicator light turns on (for 5 seconds).
3. Press any of the buttons on the transmitter to make sure that the operation indicator light does not turn on/flash.

Turning off the power saving function

After you have turned off the power saving function according to the following procedure, the hazard warning lights and sound operate*1 one time.

1. Press any of the buttons on the transmitter to make sure that the operation indicator light does not turn on/flash.
2. Press the lock button on the transmitter 4 times within 3 seconds to turn on the operation indicator light.
3. Press the lock button continuously for 1.5 seconds or longer while the operation indicator light turns on (for 5 seconds).

*1 With the advanced keyless function

▼ Operational Range

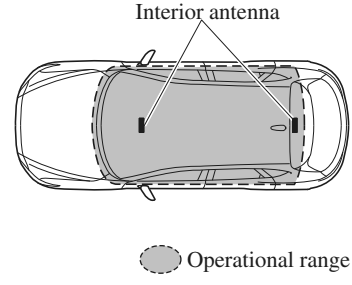
The system operates only when the driver is in the vehicle or within operational range while the key is being carried.

Starting the Engine

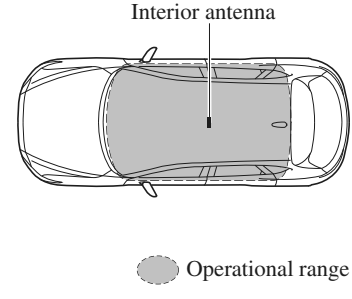
NOTE

- *Starting the engine may be possible even if the key is outside of the vehicle and extremely close to a door and window, however, always start the engine from the driver's seat.*
  If the vehicle is started and the key is not in the vehicle, the vehicle will not restart after it is shut off and the ignition is switched to off.
- *The luggage compartment is out of the assured operational range, however, if the key (transmitter) is operable the engine will start.*

With the advanced keyless function



Without the advanced keyless function



NOTE
The engine may not start if the key is placed in the following areas:

- *Around the dashboard*
- *In the storage compartments such as the glove compartment or the center console*

▼ Key Suspend Function

If a key is left in the vehicle, the functions of the key left in the vehicle are temporarily suspended to prevent theft of the vehicle.
To restore the functions, press the unlock button on the functions-suspended key in the vehicle.

Advanced Keyless Entry System*

⚠ WARNING

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

The advanced keyless function allows you to lock/unlock the door and the liftgate, or open the liftgate while carrying the key.

System malfunctions or warnings are indicated by the following warning beeps.

- Request switch Inoperable Warning Beep
  Refer to Request Switch Inoperable Warning Beep (With the advanced keyless function) on page 7-41.
- Key Left-in-luggage Compartment Warning Beep
  Refer to Key Left-in-luggage Compartment Warning Beep (With the advanced keyless function) on page 7-41.
- Key Left-in-vehicle Warning Beep
  Refer to Key Left-in-vehicle Warning Beep (With the advanced keyless function) on page 7-41.

NOTE
The advanced keyless entry system functions can be deactivated to prevent any possible adverse effect on a user wearing a pacemaker or other medical device. If the system is deactivated, you will be unable to start the engine by carrying the key. Consult an Authorized Mazda Dealer for details. If the advanced keyless entry system has been deactivated, you can start the engine by following the procedure indicated when the key battery goes dead.
Refer to Engine Start Function When Key Battery is Dead on page 4-8.

 *Some models.

Operational Range

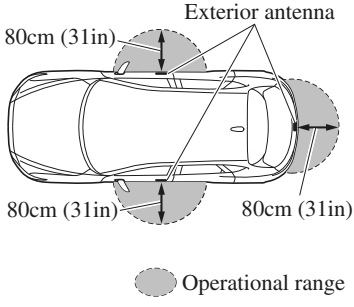
The system operates only when the driver is in the vehicle or within operational range while the key is being carried.

NOTE

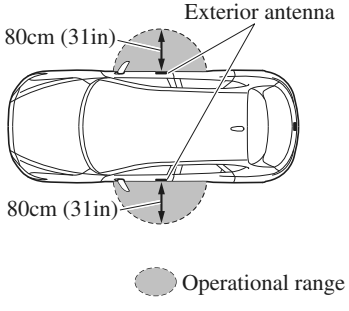
When the battery power is low, or in places where there are high-intensity radio waves or noise, the operational range may become narrower or the system may not operate. For determining battery replacement, Refer to Keyless Entry System on page 3-4.

▼ Locking, Unlocking the Doors and the Liftgate

Lock



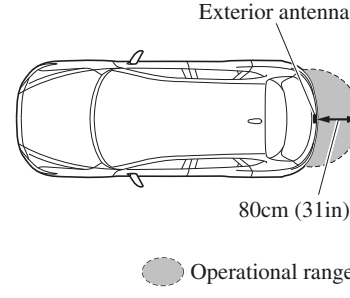
Unlock



NOTE

- *The system may not operate if you are too close to the windows or door handles, or liftgate.*
- *If the key is left in the following areas and you leave the vehicle, the doors may be locked depending on the radio wave conditions even if the key is left in the vehicle.*
  - *Around the dashboard*
  - *In the storage compartments such as the glove compartment or the center console*
  - *Next to a communication device such as a mobile phone*

▼ Opening the Liftgate



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 moonroof, lock the doors and the liftgate 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.

After closing the doors and the liftgate, always verify that they are securely closed:
Doors and the liftgate not securely closed are dangerous, if the vehicle is driven with a door and the liftgate not securely closed, the door and the liftgate could open unexpectedly resulting in an accident.

Always confirm the safety around the vehicle before opening a door and the liftgate:
Suddenly opening a door and the liftgate is dangerous. A passing vehicle or a pedestrian could be hit and cause an accident.

⚠ CAUTION

Always confirm the conditions around the vehicle before opening/closing the doors and the liftgate and use caution during strong winds or when parked on an incline. Not being aware of the conditions around the vehicle is dangerous because fingers could get caught in the door and the liftgate or a passing pedestrian could be hit, resulting in an unexpected accident or injury.

NOTE

- *Always stop the engine and lock the doors. In addition, to prevent theft of valuables, do not leave them inside the cabin.*
- *If the key is left in the following areas and you leave the vehicle, the doors may be locked depending on the radio wave conditions even if the key is left in the vehicle.*
  - *Around the dashboard*

・In the storage compartments such as the glove compartment or the center console
・Next to a communication device such as a mobile phone

・When the ignition is switched to ACC or ON, 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.
The vehicle lock-out prevention feature does not operate while the ignition is switched off.
When all doors and the liftgate are locked using the power door lock with any door or the liftgate open, the closed doors and the liftgate are locked. After that, when all doors and the liftgate are closed, all doors and the liftgate are locked. However, if the key is inside the vehicle, all doors and the liftgate are automatically unlocked.
(With the advanced keyless function)
The beep sound is heard for about 10 seconds to notify the driver that the key has been left in the vehicle.
(Without the advanced keyless function)
The horn sound is heard twice to notify the driver that the key has been left in the vehicle.

・(Door unlock (control) system with collision detection)

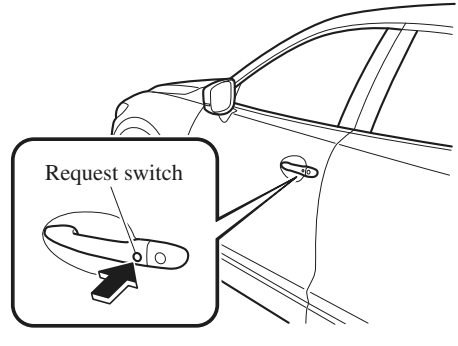
This system automatically unlocks the doors and the liftgate in the event the vehicle is involved in an accident to allow passengers to get out of the vehicle immediately and prevent being trapped inside. While the ignition is switched ON and in the event the vehicle receives an impact strong enough to inflate the air bags, all the doors and the liftgate are automatically unlocked after about 6 seconds have elapsed from the time of the accident.
The doors and the liftgate may not unlock depending on how an impact is applied, the force of the impact, and other conditions of the accident.
If door-related systems or the battery is malfunctioning, the doors and the liftgate will not unlock.

▼ Locking, Unlocking with Request Switch (With the advanced keyless function)

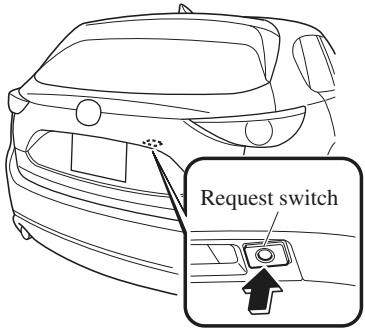
All doors and the liftgate can be locked/unlocked by pressing the request switch on the front doors while the key is being carried.

The request switch on the liftgate can only be used to lock all doors and the liftgate.

Front doors



Liftgate (Lock only)



To lock

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

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 three seconds and two more beep sounds will be heard.

Front passenger door request switch

To unlock all 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 system can be set to unlock all doors by performing a single operation.*

  Refer to the Mazda Connect Owner's Manual or consult an Authorized Mazda Dealer.
  Use the following procedure to change the setting.
  1. *Switch the ignition off and close all of the doors and the liftgate.*
  2. *Open the driver's door.*
  3. *Within 30 seconds of opening the driver's door, press and hold the UNLOCK button on the key for 5 seconds or longer (the sound of the doors locking/unlocking can be heard).*
     After this, the system switches the setting of pressing the driver's request switch once or twice to unlock all doors and the liftgate each time the UNLOCK button is pressed (the sound of the doors locking/unlocking can be heard).
  4. *The setting change is completed by doing any one of the following:*
     - *Switching the ignition to ACC or ON.*
     - *Closing the driver's door.*
     - *Opening the liftgate.*
     - *Not operating the key for ten seconds.*
     - *Pressing any button except the UNLOCK button on the key.*
     - *Pressing a request switch.*
- *Confirm that all doors and the liftgate are securely locked.*
  For the liftgate, move it without pressing the electric liftgate opener to verify that the liftgate has not been left ajar.
- *All doors and the liftgate cannot be locked when any door or the liftgate is open.*

- *It may require a few seconds for the doors to unlock after the request switch is pressed.*
- *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.*
  The volume of the beep sound can also be changed.
  Refer to the Mazda Connect Owner's Manual or consult an Authorized Mazda Dealer.
  Use the following procedure to change the setting.
  1. *Switch the ignition off and close all of the doors and the liftgate.*
  2. *Open the driver's door.*
  3. *Within 30 seconds of opening the driver's door, press and hold the LOCK button on the key for 5 seconds or longer (All of the doors and the liftgate are locked and unlocked when the LOCK button on the key is pressed and held for 5 seconds.).*
     The beep sound activates at the currently set volume. The setting changes each time the LOCK button on the key is pressed and the beep sound activates at the set volume. (If the beep sound has been set to not activate, it will not activate.)
  4. *The setting change is completed by doing any one of the following:*
     - *Switching the ignition to ACC or ON.*
     - *Closing the driver's door.*
     - *Opening the liftgate.*
     - *Not operating the key for ten seconds.*
     - *Pressing any button except the LOCK button on the key.*
     - *Pressing a request switch.*
- ***(With theft-deterrent system)***
  The hazard warning lights flash when the theft-deterrent system is armed or turned off.
  Refer to Theft-Deterrent System on page 3-44.
- *The setting can be changed so that the doors and the liftgate are locked automatically without pressing the request switch.*
  Refer to the Mazda Connect Owner's Manual or consult an Authorized Mazda Dealer.
  (Walk-away 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 three 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 key is left in the vehicle, the walk-away auto lock function will not work. Always make sure that all doors and the liftgate are closed and locked before leaving the vehicle. The walk-away auto lock function does not close the power windows.

- ***(Auto re-lock function)***
  After unlocking with the request switch, all doors and the liftgate will automatically lock if any of the following operations are not performed within about 60 seconds. If your vehicle has a theft-deterrent system, the hazard warning lights will flash for confirmation.
  The time required for the doors to lock automatically can be changed.
  Refer to the Mazda Connect Owner's Manual or consult an Authorized Mazda Dealer.
  - *Opening a door or the liftgate.*
  - *Switching the ignition to any position other than off.*

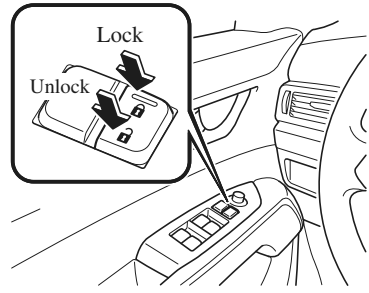
▼ Locking, Unlocking with Transmitter

All doors and the liftgate can be locked/unlocked by operating the keyless entry system transmitter, refer to Keyless Entry System (page 3-4).

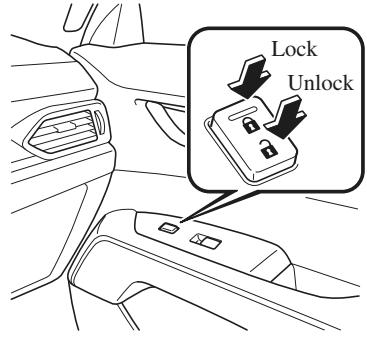
▼ Locking, Unlocking with Door-Lock Switch

All doors and the liftgate lock automatically when the lock side is pressed. They unlock when the unlock side is pressed.

Driver's door



Front passenger's door



To lock all the doors and the liftgate from an open front door, press the lock side of the door lock switch and then close the door.

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

▼ Auto Lock/Unlock Function

⚠ WARNING

Do not pull the inner handle on a front door:
Pulling the inner handle on a front door while the vehicle is moving is dangerous. Passengers can fall out of the vehicle if the door opens accidentally, which could result in death or serious injury.

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

NOTE
If the doors and liftgate are unlocked by the auto lock/unlock function, it does not operate again until the doors or the liftgate are opened/closed, or the ignition is switched OFF.
The lock/unlock timing and the setting to make this function inoperable can be changed.
Refer to the Mazda Connect Owner's Manual or consult an Authorized Mazda Dealer.

▼ Locking, Unlocking with Auxiliary Key

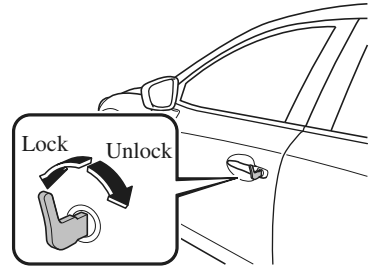
Turn the auxiliary key toward the front to lock, toward the back to unlock.

To lock

All doors lock automatically when the driver's door is locked using the auxiliary key.

To unlock

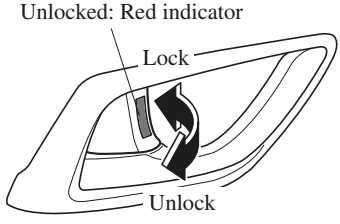
The driver's door unlocks when the auxiliary key is turned briefly to the unlock position and then immediately returned to the center position.
All doors unlock when the driver's door is unlocked and the auxiliary key is held in the unlock position for one second or longer.



▼ Locking, Unlocking with Door-Lock Knob

Operation from inside

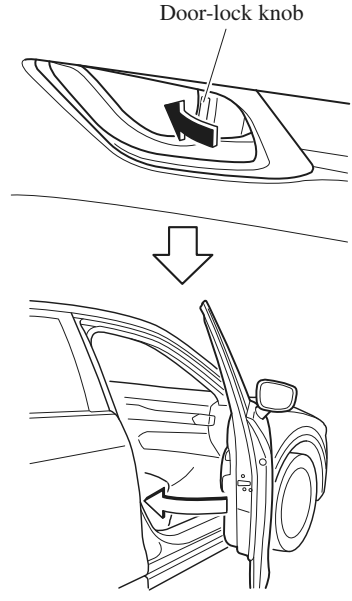
To lock any door from the inside, press the door-lock knob.
To unlock, pull it outward.
This does not operate the other door locks.



Operation from outside

To lock any door using its door-lock knob from the outside, press the door-lock knob to the lock position and close the door (holding the door handle in the open position is not required).

This does not operate the other door locks.



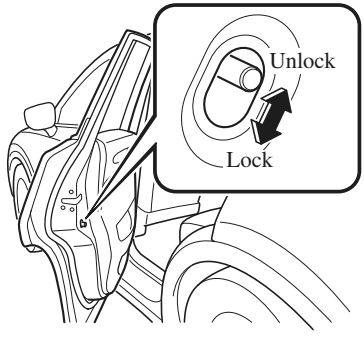
NOTE
When locking the door this way:

- *Be careful not to leave the key inside the vehicle.*
- *The doors cannot be locked using the driver's door lock knob if any door is open when the ignition is switched to ACC or ON.*

▼ Rear Door Child Safety Locks

These locks are intended to help prevent children from accidentally opening the rear doors. Use them on both rear doors whenever a child rides in the rear seat of 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 only be opened by pulling the outside handle.



Liftgate

⚠ WARNING

Never allow a person to ride in the luggage compartment:
Allowing a person to ride in the luggage compartment is dangerous. The person in the luggage compartment could be seriously injured or killed during sudden braking or a collision.

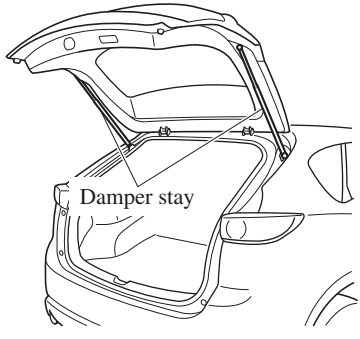
Do not drive with the liftgate open:
Exhaust gas in the cabin of a vehicle is dangerous. An open liftgate in a moving vehicle will cause exhaust gas to be drawn into the cabin. This gas contains CO (carbon monoxide), which is colorless, odorless, and highly poisonous, and it can cause loss of consciousness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

Do not stack or leave loaded luggage unsecured in the luggage compartment:
Otherwise, the luggage may move or collapse, resulting in injury or an accident. In addition, do not load luggage higher than the seatbacks. It may affect the side or rear field of view.

⚠ CAUTION

- *Before opening the liftgate, remove any snow and ice accumulation on it. Otherwise, the liftgate could close under the weight of the snow and ice resulting in injury.*

- *Be careful when opening/closing the liftgate during strong winds. If a strong gust blows against the liftgate, it could close suddenly resulting in injury.*
- *Fully open the liftgate and make sure that it stays open. If the liftgate is only opened partially, it could slam shut by vibration or wind gusts resulting in injury.*
- *When loading or unloading luggage in the luggage compartment, turn off the engine. Otherwise, you could get burned by the heat of the exhaust gas.*
- *Be careful not to apply excessive force to the damper stay on the liftgate such as by putting your hand on the stay. Otherwise, the damper stay may bend and affect the liftgate operation.*

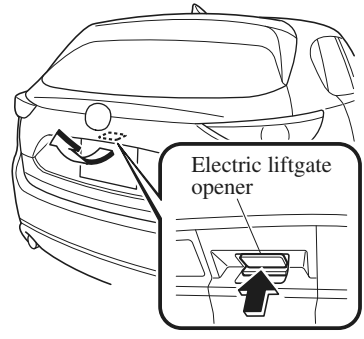


- *Do not modify or replace the liftgate damper stay. Consult an Authorized Mazda Dealer if a liftgate damper stay is deformed or damaged for reasons such as a collision or if there is some other problem.*

▼ Opening and Closing the Liftgate

Opening the liftgate with Electric liftgate opener

Unlock the doors and liftgate, then press the electric liftgate opener on the liftgate and raise the liftgate when the latch releases.
For the power liftgate operation, refer to Power Liftgate on page 3-21.



NOTE
(With the advanced keyless function)

- *A locked liftgate can also be opened while the key is being carried.*
- *When opening the liftgate with the doors and the liftgate locked, it may require a few seconds for the liftgate latch to release after the electric liftgate opener is pressed.*
- *The liftgate can be closed when the doors are locked with the key left in the vehicle. However, to prevent locking the key in the vehicle, the liftgate can be opened by pressing the electric liftgate opener. If the liftgate cannot be opened despite doing this procedure, first push the liftgate completely closed, then press the electric liftgate opener to fully open the liftgate.*
- *When the liftgate latch is released by pressing the electric liftgate opener, the liftgate raises slightly. If the liftgate is not operated for a certain period of time, the liftgate cannot be raised.*

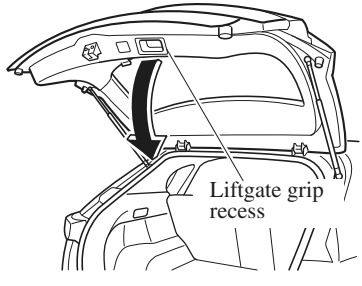
To open

Press the electric liftgate opener again.
To close
To close the liftgate from its slightly raised position, open it first by pressing the electric liftgate opener, then close it after waiting at least 1 second.

- *If the liftgate is not fully closed, the driver is notified by a warning indicated in the instrument cluster.*
- *If the vehicle lead-acid battery is dead or there is a malfunction in the electrical system and the liftgate cannot be unlocked, the liftgate can be opened by performing the emergency procedure. Refer to When Liftgate Cannot be Opened on page 7-44.*

Closing the liftgate

Lower the liftgate slowly using the liftgate grip recess, then push the liftgate closed using both hands.
Do not slam it. Pull up on the liftgate to make sure it is secure.
For the power liftgate operation, refer to Power Liftgate on page 3-21.



NOTE
Confirm that the liftgate is securely closed. The liftgate, move it without pressing the electric liftgate opener to verify that the liftgate has not been left ajar.

▼ Power Liftgate*

The power liftgate opens/closes electrically by operating the switches in the vehicle or the buttons on the keyless entry system transmitter.

⚠ WARNING

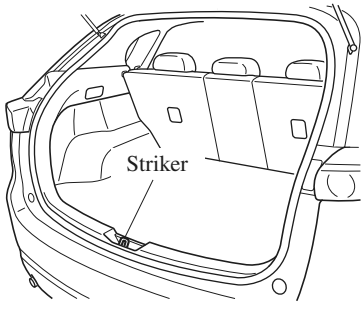
Be sure to watch the power liftgate as it opens or closes, and make sure that it closes completely:
Opening or closing the power liftgate while not watching it move is dangerous. Because of unseen obstacles and the jam-safe feature, a liftgate may not close completely and, if left unnoticed, could result in serious injury or death if an occupant were to fall out of the vehicle. Always be sure that the area around the liftgate is clear before activating it.

Always confirm the safety of the area around the power liftgate before operating it electrically.
Not checking the area around the liftgate for people before operating it using the power liftgate switch or the button on the keyless entry system is dangerous. A person could become caught between the liftgate and an obstruction while it is opening electrically or between the liftgate and vehicle while it is closing electrically, resulting in an accident and serious injury.

Never allow children to operate the power liftgate system:
Allowing children to operate the power liftgate switch and the keyless entry system is dangerous. Children are not aware of the dangers of people getting fingers and hands caught in a moving liftgate. If someone's neck, head or hands get caught in a closing door, it could result in death or serious injury.

⚠ CAUTION

- *When closing the power liftgate, make sure there are no foreign objects around the striker. If foreign objects are obstructing the striker, the liftgate may not close properly.*



- *Do not install accessories to the power liftgate other than specified accessories. Otherwise, it cannot be opened/closed automatically and could result in a malfunction.*
- *Be careful when switching the power liftgate from electrical to manual operation. The power liftgate may open/close unexpectedly depending on its position which could result in injury.*

NOTE

- *Do not apply unnecessary force to the power liftgate when it is opening/closing electrically. Unnecessary force on the liftgate may cause it to reverse direction of movement automatically. Also, it could result in a malfunction.*
- *The power liftgate may not open/close electrically if the vehicle is parked on an incline, or there is strong wind, or the liftgate is laden with snow.*
- *If a power liftgate system fuse has blown, the liftgate cannot be opened using the power liftgate switch or the electric liftgate opener. Use the emergency lever to open the liftgate.*
- *Fully close the power liftgate before disconnecting the vehicle lead-acid battery. If the lead-acid battery is disconnected with the liftgate open, it cannot be opened or closed automatically after the lead-acid battery is reconnected. If this happens, fully close the liftgate manually to restore the auto full open/close function.*
- *If the liftgate is snow-laden, remove the snow before operating the power liftgate. Operating the power liftgate with excessive force applied to the liftgate may damage the liftgate.*

Operation using the transmitter

Press the power liftgate button for one second or longer. The hazard warning lights flash twice and the liftgate opens/closes after the beep sounds.
Refer to Transmitter on page 3-5.

NOTE

- *When the ignition is switched ON, the transmitter does not operate.*

- *When opening the liftgate by pressing the power liftgate button on the transmitter, the liftgate can be opened even when it is locked.*
- *If the power liftgate button on the transmitter is pressed while the liftgate is opening/closing electrically, the beep is activated and the liftgate stops. When pressing the power liftgate button again, the liftgate moves in the reverse direction.*

Operation using each switch

Operation conditions

Opening the liftgate
If the vehicle has satisfied all the following operation conditions, the power liftgate can be opened using the power function.

- All doors and the liftgate are unlocked.
- The ignition is switched OFF, or the selector lever is in P with the ignition switched ON.

Closing the liftgate

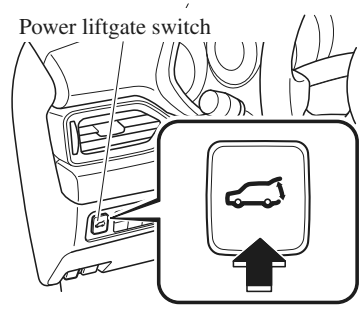
- The ignition is switched OFF, or the selector lever is in P with the ignition switched ON.

NOTE

- *If the vehicle moves with the selector lever shifted to a position other than P while the liftgate is opening/closing electrically, the liftgate moves as follows:*
  While opening electrically
  The buzzer is activated, and the liftgate moves in the reverse direction automatically and closes. When the selector lever is shifted to P, you can resume the power liftgate operation using the switches.
  While closing electrically
  The buzzer is activated, but the liftgate continues closing.

Operation from the driver's seat (To open/close)

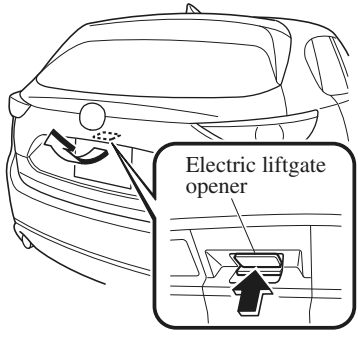
Press the power liftgate switch for about one second or longer while the liftgate is in the fully closed/open position. The hazard warning lights flash twice and the liftgate opens/closes fully after the beep sound is heard.



Operation from outside (To open)

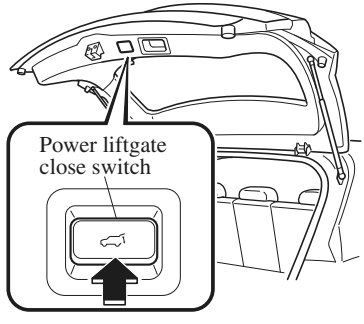
Press the electric liftgate opener on the liftgate and raise the liftgate. The hazard warning lights flash twice and the liftgate opens automatically after the beep sound is heard.

(With the advanced keyless function)
A locked liftgate can also be opened while the key is being carried.



Operation from outside (To close)

Press the power liftgate close switch while the liftgate is fully opened. The hazard warning lights flash twice and the liftgate closes automatically after the beep sound is heard.



NOTE
If the power liftgate switch/power liftgate close switch is pressed or the electric liftgate opener is operated while the liftgate is opening/closing electrically, the beep sound is heard and the liftgate stops. Then, it reverses when any of the switches are pressed again.

Changing the power liftgate fully open position

The power liftgate fully-open position can be changed according to the height of a garage.

When changing the position

1. Stop the liftgate at the desired position.
2. Press the power liftgate close switch for about three seconds.
   A beep sound is activated two times to indicate that the position change has been completed.

NOTE
Set the desired fully-open position of the liftgate at the position where it is open more than halfway. The position where it is less than halfway open cannot be set.

To reset

1. Open the liftgate.
2. Press the power liftgate close switch for about seven seconds.
   A beep sound is activated three times to indicated that the reset has been completed.

NOTE
After about 3 seconds have elapsed since the switch was pressed, a beep sound is activated 2 times to indicate that the liftgate fully-open position has changed. Continuously press the switch for about 7 seconds to complete the reset.

Jam-safe equipment

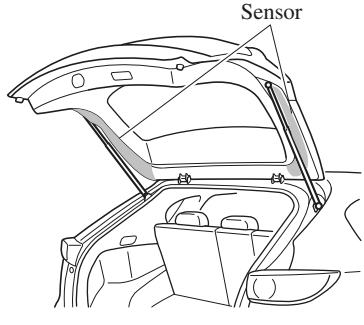
While the power liftgate is opening/closing electrically and the system detects a person or an object in the liftgate's path, the liftgate will move in the reverse direction automatically and stops.

⚠ WARNING

Always check the area around the power liftgate before opening/closing it:
Not checking for occupants and objects around the power liftgate before opening/closing it is dangerous. The jam-safe equipment is designed to prevent jamming in the event an obstruction is in the liftgate's path. The system may not detect certain objects obstructing the liftgate depending on the way they are positioned and their shape. However, if the jam-safe function detects an obstruction and moves the liftgate in the reverse direction, an occupant in the liftgate's path could be seriously injured.

⚠ CAUTION

Sensors are installed on both ends of the power liftgate. Be careful not to allow the sensors to be scratched or damaged by sharp objects, otherwise the liftgate may no longer open/close automatically. In addition, if the sensor is damaged while the liftgate is closing automatically, the system will stop.



NOTE
The jam-safe equipment does not activate during easy closure operation when the power liftgate is between the near-shut position and fully closed position.

When the power liftgate is moving in the open/close direction and an obstruction is detected, the beep sound will be heard and the liftgate moves in the reverse direction and stops.

Liftgate easy closure

The Easy Closure system automatically closes the liftgate completely from the near-shut position.
This system also operates when the liftgate is closed manually.

⚠ WARNING

When closing a liftgate, always keep hands and fingers away from the liftgate:
Placing hands or fingers around a liftgate is dangerous because the liftgate closes automatically from the near-shut position, which could cause hands and fingers to be pinched and injured.

NOTE

- *If the electric liftgate opener is pressed while the easy closure function is operating, the liftgate can be opened.*
- *If the liftgate is opened/closed repeatedly in a short period of time, the easy closure function may not operate. Wait for about 2 seconds and then try again.*

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.

To achieve maximum engine performance, use the specified fuel.

Fuel	Octane Rating*1 (Anti-knock index)
Regular unleaded fuel	87 [(R+M)/2 method] or above (91 RON or above)

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

Fuel with a rating lower than 87 octane (91 RON) will negatively affect the emission control system performance and 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.
- *This vehicle can only use oxygenated fuels containing no more than 10 % ethanol by volume. Damage to the 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 other than a Mazda genuine product, otherwise the emission control system could be damaged. Consult an Authorized Mazda Dealer for details.*

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

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

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

▼ Emission Control System

This vehicle is equipped with an emission control system (the catalytic converter is part of this system) that enables the 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 switched off.*
- *Do not descend steep grades in gear with the ignition switched 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 tow-start this 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.*
- *While the engine is off, the sound of a valve opening and closing can be heard at the rear of the vehicle, however this does not indicate an abnormality. The vehicle has a self-checking device and it operates while the engine is off.*

▼ 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 the 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 the 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.

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 a fuel leak, which could result in serious burns or death in an accident.

Do not continue refueling after the fuel pump nozzle shuts off automatically:
Continuing to add fuel after the fuel pump nozzle has shut off automatically is dangerous because overfilling the fuel tank may cause fuel overflow or leakage. Fuel overflow and leakage could damage the vehicle and if the fuel ignites it could cause a fire and explosion resulting in serious injury or death.

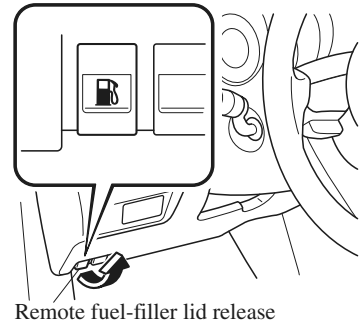
⚠ CAUTION

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.
(U.S.A. and Canada)
It may also cause the check engine light in the instrument cluster to illuminate.

▼ Refueling

Before refueling, close all the doors, windows, and the liftgate, and switch the ignition OFF.

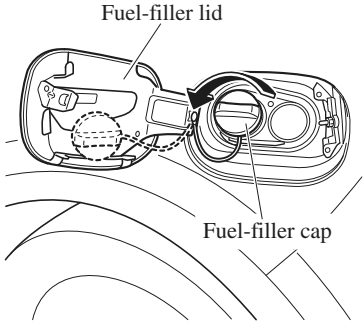
1. To open the fuel-filler lid, pull the remote fuel-filler lid release.



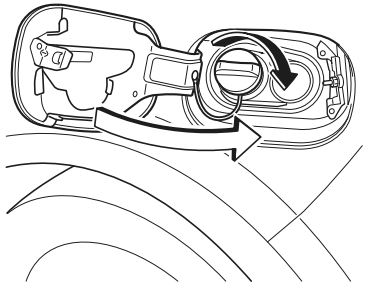
Remote fuel-filler lid release

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

3. Attach the removed cap to the inner side of the fuel-filler lid.



4. Insert the refueling nozzle all the way and begin refueling. Pull out the refueling nozzle after the refueling stops automatically.
5. To close the fuel-filler cap, turn it clockwise until a click is heard.
6. To close, press the fuel-filler lid until it locks securely.



⚠ CAUTION

(U.S.A. and Canada)

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.

Mirrors

Before driving, adjust the inside and outside mirrors.

▼ Outside Mirrors

⚠ 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.

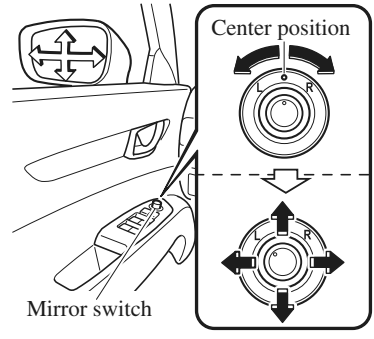
Mirror type

Flat type (driver's side)
Flat surface mirror.
Convex type (front passenger side)
The mirror has single curvature on its surface.

Power mirror adjustment

The ignition must be switched to ACC or ON position.

To adjust:
1. Rotate the mirror switch to the left **L** or right **R** to choose the left or right side mirror.
2. Press the mirror switch in the appropriate direction.



After adjusting the mirror, lock the control by rotating the switch in the center position.

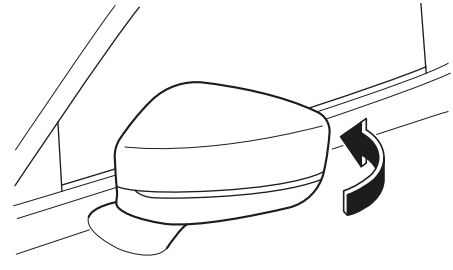
Folding outside mirror

⚠ 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.

Manual folding outside mirror

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



Power folding outside mirror

⚠ WARNING

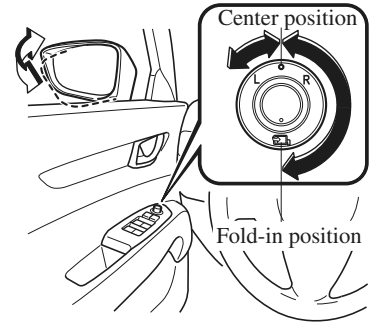
Do not touch a power folding outside mirror while it is moving:
Touching the power folding outside mirror when it is moving is dangerous. Your hand could be pinched and injured or the mirror could be damaged.

Use the outside mirror switch to set the mirror to the on-road position:
Setting the power folding outside mirror to the on-road position by hand is dangerous. The mirror will not lock in position and will prevent effective rearview visibility.

Only operate the power folding outside mirror with the vehicle safely parked:
Operating the power folding outside mirror while the vehicle is moving is dangerous. Wind blast on the mirror will cause them to collapse and you will be unable to return it to the on-road position, preventing rearview visibility.

The ignition must be switched to ACC or ON position.
To fold, rotate the outside mirror switch.

To return the mirror to the driving position, rotate the switch to the center position.



Automatic folding function
The automatic folding function operates when the ignition is switched to OFF. When the outside mirror switch is in a position other than the fold-in position, the outside mirrors automatically fold in and out when the doors are locked and unlocked.
Also, when the ignition is switched ON or the engine is started, the outside mirrors fold out automatically.

NOTE
The outside mirrors may not fold in and out automatically under cold weather conditions.
If the outside mirrors do not fold in and out automatically, remove any ice or snow, and then operate the outside mirror switch to fold the outside mirrors in or out.

Canceling the automatic folding function

To cancel the automatic folding function, carry out the following procedure using the master control switches.
1. Switch the ignition ON.

2. If the power window lock switch is in the unlock position, switch it to the lock position.
3. Press and hold the front passenger's power window switch and rear left/ right power window switches on the driver's door at the same time for 3 seconds or longer.

NOTE

- *The automatic folding 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 switch the ignition off and proceed from the beginning.*
- *If you are unable to cancel the function despite doing the cancellation procedure, consult an Authorized Mazda Dealer.*

Restoring the automatic folding function

With the automatic folding function in the canceled state, repeat the previous procedure for canceling the function and it will be restored.

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

Engine-off outside mirror operation*

The outside mirrors can be operated for about 40 seconds after the ignition is switched from ON to off.

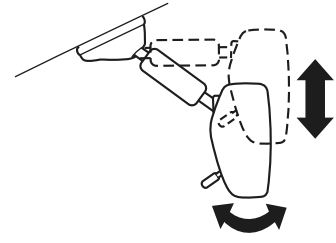
▼ Rearview Mirror

⚠ 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.

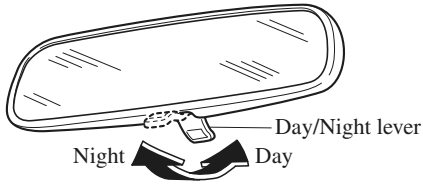


NOTE
For the manual day/night mirror, perform the adjustment with the day/night lever in the day position.

Reducing glare from headlights

Manual day/night mirror

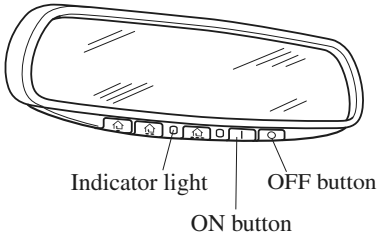
Push the day/night lever forward for day driving. Pull it back to reduce glare of headlights from vehicles at the rear.



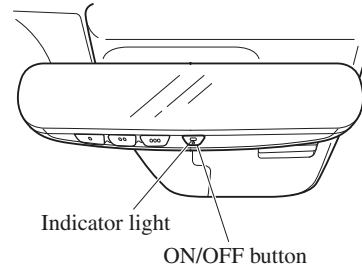
Auto-dimming mirror

The auto-dimming mirror automatically reduces the glare of headlights from vehicles at the rear when the ignition is switched ON.

(With Homelink wireless control system)
(Type A)
Press the OFF button (○) to cancel the auto-dimming function. The indicator light will turn off.
To reactivate the auto-dimming function, press the ON button (|). The indicator light will illuminate.

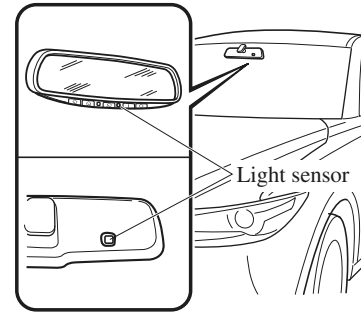


(Type B)
Press the ON/OFF button (⏻) to cancel the auto-dimming function. The indicator light will turn off.
To reactivate the auto-dimming function, press the ON/OFF button (⏻). The indicator light will illuminate.

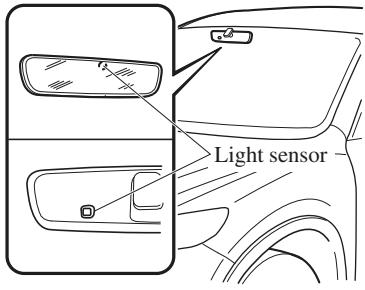


NOTE

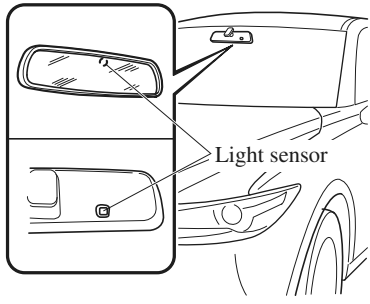
- *Do not use glass cleaner or suspend objects on or around the light sensor. Otherwise, light sensor sensitivity will be affected and may not operate normally.*
  (With Homelink wireless control system)
  (Type A)



(Type B)



(Without Homelink wireless control system)



- ***(With Homelink wireless control system)***
  For information regarding the 3 buttons (Type A , , /Type B ■, ■■, ■■■) on the auto-dimming mirror.
  Refer to HomeLink Wireless Control System on page 4-91.
- *The auto-dimming function is canceled when the ignition is switched ON and the selector lever is in the R position.*

Power Windows

The windows can be opened/closed by operating the power window switches.

⚠ WARNING

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

Never allow children to play with power window switches:
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.

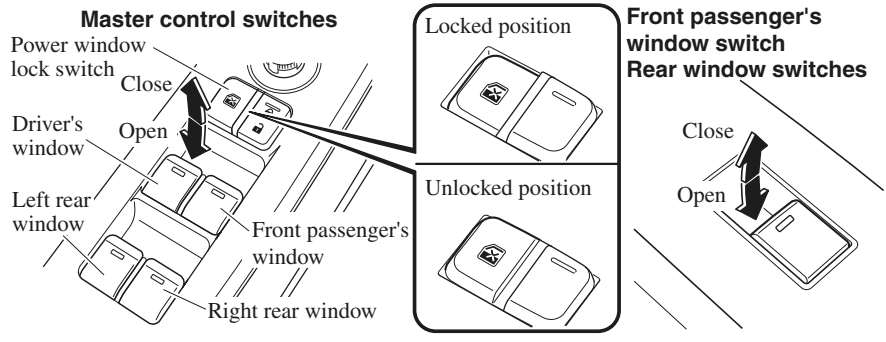
Make sure nothing blocks the window just before it reaches the fully closed position or while fully holding up the power window switch:
Blocking the power window just before it reaches the fully closed position or while fully holding up the power window switch is dangerous.
In this case, the jam-safe function cannot prevent the window from closing all the way. If fingers are caught, serious injuries could occur.

NOTE
When driving with only 1 of the rear windows open, your ears might experience a resonating sound. However, this does not indicate a problem. The sound can be reduced by slightly opening a front window or by changing the size of the rear window opening.

▼ Opening/Closing Windows

The window opens while the switch is pressed and it closes while the switch is pulled up with the ignition switched ON. Do not open or close 3 or more windows at the same time.

The front passenger's side and rear windows can be opened/closed when the power window lock switch on the driver's door is in the unlock position. Keep this switch in the locked position while children are in the vehicle.



NOTE

- *A power window may no longer open/close if you continue to press the switch after fully opening/closing the power window. If the power window does not open/close, wait a moment and then operate the switch again.*
- *The passenger windows may be opened or closed using the master control switches on the driver's door.*
- *The power window can be operated for about 40 seconds after the ignition is switched from ON to ACC or off with all doors closed. If any door is opened, the power window will stop operating.*
  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.
- *When the power window lock switch is in the locked position, the light on each power window switch, except for the driver's power window switch, turns off. The light may be difficult to see depending on the surrounding brightness.*

▼ Auto-opening/Closing

To fully open the window automatically, press the switch completely down, then release. The window will fully open automatically.
To fully close the window automatically, pull the switch completely up, then release. The window will fully close automatically.

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

NOTE
Power window system initialization procedure
If the lead-acid battery was disconnected during vehicle maintenance, or for other reasons (such as a switch continues to be operated after the window is fully open/closed), the window will not fully open and close automatically.
The power window auto function will only resume on a power window that has been reset.

1. *Switch the ignition ON.*
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 window.*
4. *Pull up the switch to fully close the window and continue holding the switch for about 2 seconds after the window fully closed.*
5. *Make sure that the power windows operate correctly using the door switches.*

▼ Jam-safe Window

If foreign matter is detected between the window and the window frame while the window is closing automatically (refer to Auto-opening/Closing on page 3-37), the window stops closing and automatically opens partway.

NOTE

- *The jam-safe function may operate under the following conditions:*
  - *A strong impact is detected while the window is closing automatically.*
  - *Window is closing automatically in very low temperatures.*
- *In the event the jam-safe function activates and the power window cannot be closed automatically, pull and hold the switch and the window will close.*
- *The jam-safe window function does not operate until the system has been reset.*

▼ Remote Power Window Operation

All power windows can be opened from outside the vehicle after the doors are closed.
The power windows can be operated remotely when the power window lock switch on the driver's door is in the lock or unlocked position.
Remote power window operation is activated under the following conditions.

- All the doors and liftgate are closed.
- The ignition is switched OFF.

NOTE
The power windows cannot be opened from the outside of the vehicle if the power window initialization has not been completed.

Opening

The windows can be opened for ventilating the cabin before getting in the vehicle.
Press the unlock button on the key quickly and briefly 3 times and then immediately afterwards, press and hold the unlock button to open the windows.



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

Moonroof*

The moonroof can be opened or closed when operating the overhead tilt/slide switch at the front seats.

⚠ WARNING

Do not let passengers stand up or extend part of the body through the open moonroof while the vehicle is moving:
Extending the head, arms, or other parts of the body through the moonroof is dangerous. The head or arms could hit something while the vehicle is moving. This could cause serious injury or death.

Never allow children to play with the tilt/slide switch:
The tilt/slide switch would allow children to operate the moonroof unintentionally, which could result in serious injury if a child's hands, head or neck becomes caught by the moonroof.

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.

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 closing. If fingers are caught, serious injuries could occur.

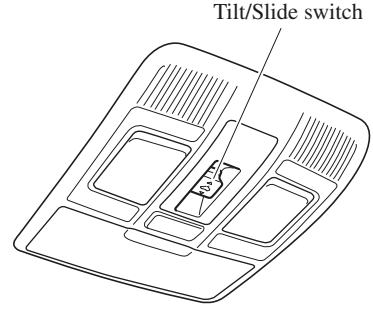
⚠ CAUTION

- *Do not sit on or put heavy items on the area where the moonroof opens and closes. Otherwise, the moonroof could be damaged.*
- *Do not open or close the moonroof forcefully during freezing temperatures or snowfall. Otherwise, the moonroof could be damaged.*
- *The sunshade does not tilt. To avoid damaging the sunshade, do not push it up.*
- *Do not close the sunshade while the moonroof is opening. Trying to force the sunshade closed could damage it.*

▼ Tilt/Slide Operation

The moonroof can be opened or closed electrically only when the ignition is switched ON.

- Before leaving the vehicle or 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.

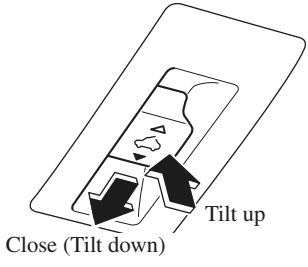


*Some models.

Tilt Operation

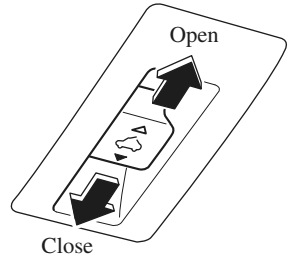
The rear of the moonroof can be tilted open to provide more ventilation.

To fully tilt automatically, momentarily press the tilt/slide switch.
To fully close automatically, momentarily press the tilt/slide switch in the forward direction.
To stop tilting partway, press the tilt/slide switch.
When the moonroof is already slid open and you want to tilt it open, first close the moonroof and then do a tilt operation.



Slide Operation

To fully open automatically, momentarily press the tilt/slide switch in the backward direction.
To fully close automatically, momentarily press the tilt/slide switch in the forward direction.
To stop sliding partway, press the tilt/slide switch.
When the moonroof is already tilted open and you want to slide it open, first close the moonroof and then do a slide operation.



NOTE

If the moonroof does not operate normally, do the following procedure:

1. *Switch the ignition ON.*
2. *Press the tilt switch, to partially tilt open the rear of the moonroof.*
3. *Repeat Step 2. The rear of the moonroof tilts open to the fully open position, then closes a little.*

If the reset procedure is performed while the moonroof is in the slide position (partially open) it will close before the rear tilt opens.

▼ Jam-safe Moonroof

If a person's hands, head or an object blocks the moonroof while it is closing, the moonroof will stop and move in the open direction.

NOTE

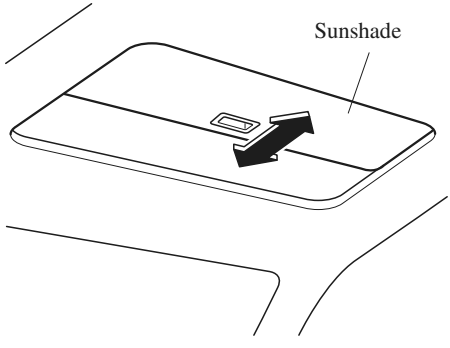
- *The jam-safe function may operate under the following conditions:*
  - *A strong impact is detected while the moonroof is closing automatically.*
  - *The moonroof is closing automatically during very low temperatures.*

- *In the event the jam-safe function activates and the moonroof cannot be closed automatically, press the tilt/slide switch and the moonroof will close.*
- *The jam-safe moonroof function does not operate until the system has been reset.*

▼ Sunshade

The sunshade can be opened and closed by hand.

The sunshade opens at the same time as the moonroof slides open, but it must be closed by hand.



Modification and Add-On Equipment

Mazda cannot guarantee the immobilizer and the theft-deterrent systems' operation if the system has been modified or if any add-on equipment has been installed.

⚠ CAUTION

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

Immobilizer System

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 vehicle theft.
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.*
- *If the engine does not start with the correct key, and the security indicator light keeps illuminating or flashing, the system may have a malfunction. Consult an Authorized Mazda Dealer.*

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, consult 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 the Authorized Mazda Dealer to reset. Starting the vehicle with a key that has not been reset is not possible.*

▼ Operation

NOTE

- *The engine may not start and security indicator light may illuminate or flash if the 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 compartment. Move the key to a location within the signal range, switch the ignition off, and then restart the engine.*
- *Signals from a TV or radio station, or from a transceiver or mobile telephone could interfere with your immobilizer system. If you are using the proper key and the engine fails to start, check the security indicator light.*

Arming

The system is armed when the ignition is switched from ON to off.

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 is switched ON with the correct programmed key. The security indicator light illuminates for about 3 seconds and then turns off. If the engine does not start with the correct key, and the security indicator light remains illuminated or flashing, try the following:
Make sure the key is within the operational range for signal transmission. Switch the ignition off, and then restart the engine. If the engine does not start after 3 or more tries, contact an Authorized Mazda Dealer.

NOTE

- *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.*
- *Because the electronic codes are reset when the immobilizer system is repaired, the keys are needed. Make sure to bring all the keys to an Authorized Mazda Dealer, so that they can be programmed.*

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.

The system will not function unless it's properly armed. So when you leave the vehicle, follow the arming procedure correctly.

▼ 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:

- Unlocking a door with the auxiliary key, door lock switch, or an inside door-lock knob.
- Forcing open a door, the hood or the liftgate.
- Opening the hood by operating the hood release handle.
- Switching the ignition ON without using the push button start.

If the system is triggered again, the lights and horn will activate until the driver's door or the liftgate is unlocked with the transmitter.
(With the advanced keyless function)
The lights and horn can also be deactivated by pressing the request switch on a door.

NOTE

- *The liftgate does not open while the theft-deterrent system is operating.*
- *For vehicles equipped with the power liftgate, the liftgate can be opened even while the theft-deterrent system is operating by pressing the power liftgate button on the transmitter or the electric liftgate opener switch while carrying the key.*
- *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. Close the windows and the moonroof* securely.
2. Switch the ignition OFF.
3. Make sure the hood, the doors, and the liftgate are closed.
4. Press the lock button on the transmitter, request switch or lock the driver's door from the outside with the auxiliary key.
   The hazard warning lights will flash once.
   The following method will also arm the theft-deterrent system:
   Press the door-lock switch "🔒" while any door is open and then close all of the doors.
   (With the advanced keyless function)

*Some models.

Press a request switch.

The security indicator light in the instrument cluster flashes twice per second for 20 seconds.



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

NOTE

- *The theft-deterrent system can also be armed by activating the auto relock function with all the doors, the liftgate and the hood closed.*
  Refer to Transmitter on page 3-5.
- *The system will disarm if one of the following operations takes place within 20 seconds after pressing the lock button:*
  - *Unlocking any door.*
  - *Opening any door.*
  - *Opening the hood.*
  - *Switching the ignition ON.*

  To rearm the system, do the arming procedure again.
- *When the doors are locked by pressing the lock button on the transmitter or using the auxiliary key while the theft-deterrent system is armed, the hazard warning lights will flash once to indicate that the system is armed.*

▼ To Turn Off an Armed System

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

- Pressing the unlock button on the transmitter.
- Starting the engine with the push button start.
- **(With the advanced keyless function)**
  - Pressing a request switch on the doors.

The hazard warning lights will flash twice.

NOTE

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.

▼ To Stop the Alarm

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

- Pressing the unlock button on the transmitter.
- Starting the engine with the push button start.
- **(With the advanced keyless function)**
  - Pressing a request switch on the doors.
  - Pressing the electric liftgate opener while the key is being carried.
  - Pressing the power liftgate button on the transmitter.

The hazard warning lights will flash twice.

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 the vehicle.

- 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.

Saving Fuel and Protection of the Environment

How you operate your Mazda determines how far it will travel on a tank of fuel. Use these suggestions to help save fuel and reduce CO_2.

- Avoid long warm-ups. Once the engine runs smoothly, begin driving.
- Avoid fast starts.
- Drive at lower speeds.
- Anticipate when to apply the brakes (avoid sudden braking).
- Follow the maintenance schedule (page 6-4) 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.

Hazardous Driving

⚠ 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.

Avoid sharp turns, excessive speed and abrupt maneuvers when driving this vehicle:
Sharp turns, excessive speed and abrupt maneuvering of this vehicle are 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 vehicles handle differently than vehicles with a lower center of gravity. Utility 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.
In a rollover crash, an unbelted person is significantly more likely to die than a person wearing a seat belt.

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.
  Refer to Antilock Brake System (ABS) on page 4-109.
- 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.

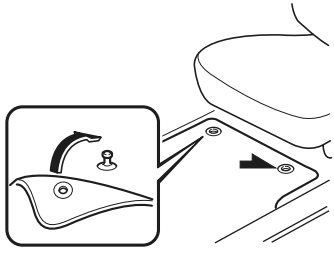
Floor Mat

We recommend the use of Genuine Mazda floor mats.

⚠ 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.
Loose floor mat(s) will interfere with the foot pedals and could result in an accident.
If using an all-weather mat for winter use always remove the original floor mat.



When setting a floor mat, position the floor mat so that its grommets 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 selector lever from D to R position.

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 check the following:

- Have the proper ratio of antifreeze in the radiator.
  Refer to Engine Coolant on page 6-22.
- Inspect the lead-acid battery and its cables. Cold reduces lead-acid battery capacity.
- Use an engine oil appropriate for the lowest ambient temperatures that the vehicle will be driven in (page 6-20).
- 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 6-24).

NOTE

- *Remove snow before driving. Snow left on the windshield is dangerous as it could obstruct vision.*
- *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.*
- *Drive slowly. Braking performance can be adversely affected if snow or ice adheres to the brake components. If this situation occurs, drive the vehicle slowly, releasing the accelerator pedal and lightly applying the brakes several times until the brake performance returns to normal.*

▼ Snow Tires

Use snow tires on all 4 wheels

Do not go faster than 120 km/h (75 mph) while driving with snow tires. Inflate snow tires 30 kPa (0.3 kgf/cm^2, 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.

Mexico

The vehicle is originally equipped with summer tires designed for optimum traction on wet and dry roads. If your vehicle is to be used on snow and ice covered roads, Mazda recommends that you replace the tires originally equipped on your vehicle with snow tires during the winter months.

Except Mexico

The 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 4 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
The tire pressure monitoring system may not function correctly when using tires with steel wire reinforcement in the sidewalls (page 4-252).

▼ 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

- *The tire pressure monitoring system may not function correctly when using tire chains.*

Install the chains on the front tires only. 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 off brakes that have become wet by driving slowly, releasing the accelerator pedal and lightly applying the brakes several times until the brake performance returns to normal:
Driving with wet brakes is dangerous. Increased stopping distance or the vehicle pulling to one side when braking could result in a serious accident. Light braking will indicate whether the brakes have been affected.

⚠ CAUTION

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

Overloading

⚠ WARNING

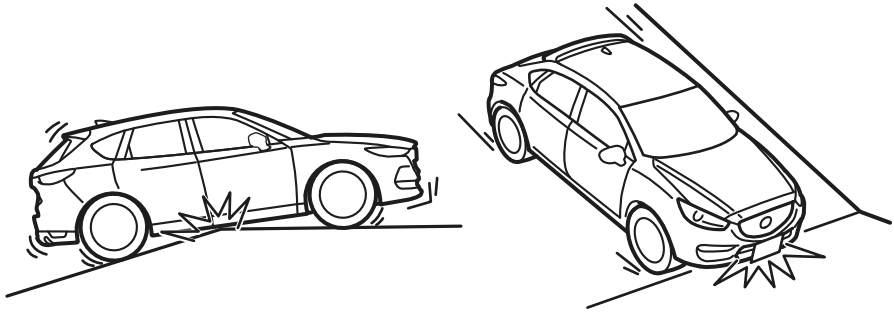
Be careful not to overload your vehicle:
The gross axle weight rating (GAWR) and the gross vehicle weight rating (GVWR) of the vehicle are on the Motor Vehicle Safety Standard Label on the driver's door frame. Exceeding these ratings can cause an accident or vehicle damage. You can estimate the weight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



This 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 (SKYACTIV-G 2.5T)

⚠ CAUTION

- *After driving at freeway speeds or up a long hill, trailer towing for a long time, idle the engine at least 30 seconds before stopping it. Otherwise, the turbocharger could be damaged.*
- *Racing or over-revving the engine, particularly after it's just been started, can damage the turbocharger.*
- *To protect the engine from damage, the engine is designed so that it cannot be raced just after starting it in extremely cold weather.*

The turbocharger greatly enhances engine power. Its advanced design provides improved operation and requires minimum maintenance.

To get the most from it, observe the following.
1. Change engine oil and filter according to Scheduled Maintenance (page 6-4).
2. Use only recommended engine oil (page 6-20). Extra additives are NOT recommended.

Trailer Towing (U.S.A. and Canada)

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 fuel economy.
Never overload your 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.

NOTE
When towing, use of gasoline with a octane rating of 91 or higher is recommended.

▼ 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, 2 passengers, and vehicle load (baggage, food, camp gear, etc.). 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 the 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 Standard Label posted on the driver's door frame.

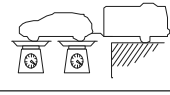
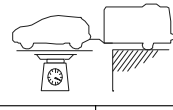
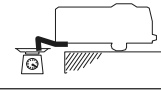
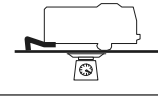
High-altitude operation

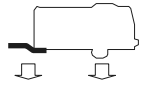
⚠ CAUTION

Be aware of the towing load weight differences when towing at high altitudes. For altitudes exceeding 1,000 meter (3,280 ft 10 in), always reduce the towing load by 10 % for every 1,000 meter (3,280 ft 10 in) increase in altitude from the load indicated under the maximum GCWR heading in the trailer towing-load table. If the determined maximum total towing load weight is exceeded, the engine and other power-train parts may be damaged.

TRAILER TOWING-LOAD TABLE

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

Item			Model	
			SKYACTIV-G 2.5	SKYACTIV-G 2.5T
			AWD	AWD
			Automatic trans-axle	Automatic trans-axle
MAX. FRONTAL AREA			2.97 m^2 (32 ft^2)	
MAX. TTW			907 kg (2,000 lb)	
MAX. GCWR			2,784 kg (6,137.6 lb)	2,750 kg (6,062.6 lb)
MAX. GAWR		Front	1,100 kg (2,425 lb)	1,145 kg (2,524 lb)
		Rear	1,043 kg (2,299 lb)	1,045 kg (2,304 lb)
MAX. GVWR			2,143 kg (4,724 lb)	2,190 kg (4,828 lb)
TRAILER-TONGUE LOAD	Tongue load		Tongue load/Trailer load × 100 = 10 % to 15 %	
	Trailer load			

Item			Model	
			SKYACTIV-G 2.5	SKYACTIV-G 2.5T
			AWD	AWD
			Automatic trans-axle	Automatic trans-axle
DISTRIBUTION OF TRAILER LOAD		Front	60 %	
		Rear	40 %	

⚠ 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.

⚠ 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 that the tire pressures of the rear tires are at 20 kPa (0.2 bar, 2.9 psi) higher than the recommended tire pressures 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.
- Do not exceed 100 km/h (62 mph) with a trailer in tow. If the local legal maximum speed with a trailer in tow is less than 100 km/h (62 mph), do not exceed the legal speed.

⚠ CAUTION

If the vehicle exceeds 100 km/h (62 mph) with a trailer in tow, the vehicle could be damaged.

⚠ 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.

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 selector 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 on page 7-17.

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.
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 6-4).

Recreational Towing

An example of "recreational towing" is towing your vehicle behind a motorhome. The transaxle is not designed for towing this vehicle on all 4 wheels.
When doing recreational towing refer to "Towing Description" (page 7-19) and "Tiedown Hooks" (page 7-20) and carefully follow the instructions.

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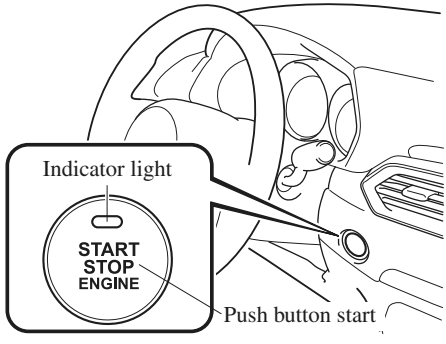
 *Some models.

MEMO

Ignition Switch

▼ Push Button Start Positions

The system operates only when the key is within operational range.
Each time the push button start is pressed, the ignition switches in the order of off, ACC, and ON. Pressing the push button start again from ON switches the ignition off.



NOTE

- *The engine starts by pressing the push button start while depressing the brake pedal. To switch the ignition position, press the push button start without depressing the pedal.*
- *Do not leave the ignition switched ON while the engine is not running. Doing so could result in the lead-acid battery going dead. If the selector lever is in the P position, and the ignition is in ACC, the ignition switches off automatically after about 25 minutes.*

Off

The power supply to electrical devices turns off and the push button start indicator light (amber) also turns off.

⚠ WARNING

Before leaving the driver's seat, always switch the ignition off, set the parking brake, and make sure the selector lever is in P position:
Leaving the driver's seat without switching the ignition off, setting the parking brake, and shifting the selector lever to P position is dangerous. Unexpected vehicle movement could occur which could result in an accident.
In addition, if your intention is to leave the vehicle for even a short period, it is important to switch the ignition off, as leaving it in another position will disable some of the vehicle's security systems and run the lead-acid battery down.

ACC (Accessory)

Some electrical accessories will operate and the indicator light (amber) illuminates.

NOTE
The keyless entry system does not function while the push button start has been pressed to ACC, and the doors will not lock/unlock even if they have been locked manually.

ON

This is the normal running position after the engine is started. The indicator light (amber) turns off. (The indicator light (amber) illuminates when the ignition is switched ON and the engine is not running.)
Some indicator lights/warning lights should be inspected before the engine is started (page 4-17).

NOTE
When the push button start is pressed to ON, the sound of the fuel pump motor operating near the fuel tank can be heard. This does not indicate an abnormality.

Starting the Engine

⚠ WARNING

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

NOTE

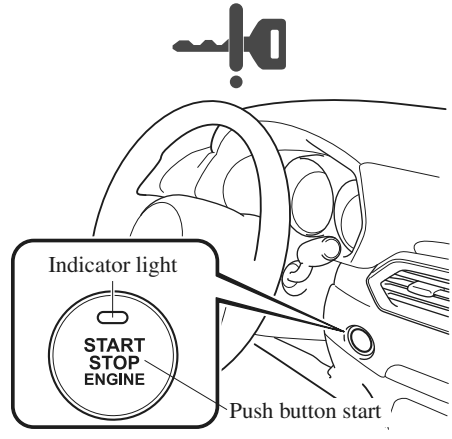
- *The key must be carried because the key carries an immobilizer chip that must communicate with the engine controls at short range.*
- *The engine can be started when the push button start is pressed from off, ACC, or ON.*
- *The push button start system functions (function which can start the engine by only carrying the key) can be deactivated to prevent any possible adverse effect on a user wearing a pacemaker or other medical device. If the system is deactivated, you will be unable to start the engine by carrying the key. Consult an Authorized Mazda Dealer for details. If the push button start system functions have been deactivated, you can start the engine by following the procedure indicated when the key battery goes dead.*
  Refer to Engine Start Function When Key Battery is Dead on page 4-8.

- *After starting a cold engine, the engine speed increases and a whining sound from the engine compartment can be heard.*
  This is for improved exhaust gas purification and does not indicate any parts defect.
- *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. Make sure you are carrying the key.
2. Occupants should fasten their seat belts.
3. Make sure the parking brake is on.
4. Continue to press the brake pedal firmly until the engine has completely started.
5. Put the vehicle in park (P). If you must restart the engine while the vehicle is moving, shift into neutral (N).

   NOTE
   The starter will not operate if the selector lever is not in P or N position and the brake pedal is not depressed sufficiently.

6. Verify that the KEY indicator light (green) (if equipped) in the instrument cluster and the push button start indicator light (green) illuminate.



NOTE

- *If the push button start indicator light (green) flashes, make sure that the key is being carried (for vehicles with a type A/type B instrument cluster (page 7-22), messages are displayed in the instrument cluster).*
- *If the push button start indicator light (green) flashes with the key being carried, touch the key to the push button start and start the engine (for vehicles with a type A/type B instrument cluster (page 7-22), messages are displayed in the instrument cluster). Refer to Engine Start Function When Key Battery is Dead on page 4-8.*

⚠ CAUTION

If the KEY warning light (red) illuminates, or the push button start indicator light (amber) flashes, this could indicate a problem with the engine starting system. This may prevent the engine from starting or from switching the ignition to ACC or ON (for vehicles with a type A/type B instrument cluster (page 7-22), messages are displayed in the instrument cluster). Have your vehicle inspected at an Authorized Mazda Dealer as soon as possible.

NOTE

- *Under the following conditions, the KEY warning light (red) flashes after the push button start is pressed. This informs the driver that the push button start will not switch to ACC, even if it is pressed from off (for vehicles with a type A/type B instrument cluster (page 7-22), messages are displayed in the instrument cluster).*
  - *The key battery is dead.*
  - *The key is out of operational range.*
  - *The key is placed in areas where it is difficult for the system to detect the signal (page 3-8).*
  - *A key from another manufacturer similar to the key is in the operational range.*
- ***(Forced engine starting method)***
  If the KEY warning light (red) illuminates, or the push button start indicator light (amber) flashes, this could indicate that the engine may not start using the usual starting method (for vehicles with a type A/type B instrument cluster (page 7-22), messages are displayed in the instrument cluster). Have your vehicle inspected at an Authorized Mazda Dealer as soon as possible. If this occurs, the engine can be force-started. Press and hold the push button start until the engine starts. Other procedures necessary for starting the engine, such as having the key in the cabin, and depressing the brake pedal are required.
  - *When the engine is force-started, the KEY warning light (red) (if equipped) remains illuminated and the push button start indicator light (amber) remains flashing.*
  - *When the selector lever is in the neutral (N) position, the KEY indicator light (green) (if equipped) and the push button start indicator light (green) do not illuminate.*

7. Press the push button start after both the KEY indicator light (green) (if equipped) in the instrument cluster and the push button start indicator light (green) illuminate.

NOTE

- *After starting the engine, the push button start indicator light (amber) turns off and the ignition switches to the ON position.*
- *After pressing the push button start and before the engine starts, the operation sound of the fuel pump motor from near the fuel tank can be heard, however, this does not indicate a malfunction.*

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

NOTE

- *Do not use high engine speeds until reaching the operating temperature.*
- *Whether the engine is cold or warm, it should be started without the 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 7-16).*

▼ Engine Start Function When Key Battery is Dead

⚠ CAUTION

When starting the engine by holding the transmitter over the push button start due to a dead key battery or a malfunctioning key, be careful not to allow the following, otherwise the signal from the key will not be received correctly and the engine may not start.

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



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

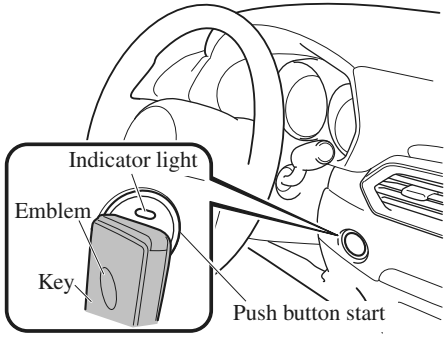


- *Devices for electronic purchases, or security passage touch or come near the key.*

If the engine cannot be started due to a dead key battery, the engine can be started using the following procedure:

1. Continue to depress the brake pedal firmly until the engine has completely started.
2. Make sure that the push button start indication light (green) flashes.

3. Align the center area of the emblem on the transmitter with the center area of the push button start while the push button start indicator light (green) flashes.



4. Make sure that the push button start indicator light (green) turns on.
5. Press the push button start to start the engine.

NOTE

- *The engine cannot be started unless the brake pedal is fully depressed.*
- *If there is a malfunction with the push button start function, the push button start indicator light (amber) flashes. In this case, the engine may start, however, have the vehicle checked at an Authorized Mazda Dealer as soon as possible.*
- *If the push button start indicator light (green) does not illuminate, perform the operation from the beginning again. If it does not illuminate, have the vehicle checked at an Authorized Mazda Dealer.*
- *To switch the ignition position without starting the engine, perform the following operations after the push button start indicator light (green) turns on.*
  1. *Release the brake pedal.*
  2. *Press the push button start to switch the ignition position. The ignition switches in the order of ACC, ON, and off each time the push button start is pressed. To switch the ignition position again, perform the operation from the beginning.*

▼ Emergency Operation for Starting the Engine

If the KEY warning light (red) illuminates, or the push button start indicator light (amber) flashes, this could indicate that the engine may not start using the usual starting method (for vehicles with a type A/type B instrument cluster (page 7-22), messages are displayed in the instrument cluster). Have your vehicle inspected at an Authorized Mazda Dealer as soon as possible. If this occurs, the engine can be force-started. Press and hold the push button start until the engine starts. Other procedures necessary for starting the engine such as having the key in the cabin, and depressing the brake pedal are required.

Turning the Engine Off

⚠ WARNING

Do not stop the engine while the vehicle is moving:
Stopping the engine while the vehicle is moving for any reason other than in an emergency is dangerous. Stopping the engine while the vehicle is moving will result in reduced braking ability due to the loss of power braking, which could cause an accident and serious injury.

1. Stop the vehicle completely.
2. Shift the selector lever to the P position and set the parking brake.
3. Press the push button start to turn off the engine. The ignition position is off.

⚠ CAUTION

➢ *When leaving the vehicle, make sure the push button start is off.*

NOTE

- *The cooling fan in the engine compartment could turn on for a few minutes after the ignition is switched from ON to OFF, whether or not the A/C is on or off, to cool the engine compartment quickly.*
- *If the system detects that the remaining battery power of the key is low when the ignition is switched from ON to ACC or OFF, the following is indicated.*
  Replace with a new battery before the key becomes unusable.
  Refer to Key Battery Replacement on page 6-33.
  (Vehicle equipped with Type A/B instrument cluster)
  A message is indicated in the display of the instrument cluster.
  (Vehicle equipped with Type C instrument cluster)
  The KEY indicator light (green) flashes for approximately 30 seconds.
  Refer to Taking Action on page 7-31.
- *If the engine is turned off while the selector lever is in a position other than P, the ignition switches to ACC.*

▼ Emergency Engine Stop

Continuously pressing the push button start or quickly pressing it any number of times while the engine is running or the vehicle is being driven will turn the engine off immediately. The ignition switches to ACC.

Cylinder Deactivation*

The cylinder deactivation is a function designed to reduce fuel consumption and improve fuel economy by deactivating 2 out of the 4 cylinders while driving. The function constantly determines which is better for driving; 4 cylinders or 2 cylinders, regardless of the driver's operations, and it performs the switching automatically.

When the cylinder deactivation function does not operate

The cylinder deactivation function does not operate under the following conditions.

- The selector lever is in the P, N, or R position, or 1st gear.
- The engine oil temperature or engine coolant temperature is low.
- After disconnecting the lead-acid battery terminals for some reason, such as for lead-acid battery replacement.

i-stop*

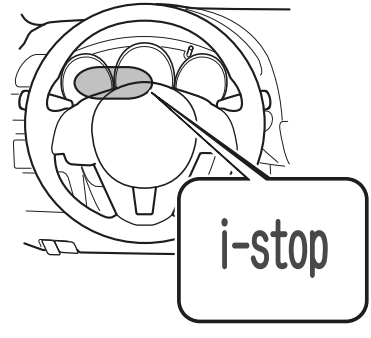
▼ i-stop

The i-stop function automatically stops the engine when the vehicle is stopped at a traffic light or stuck in traffic, and then restarts the engine automatically to resume driving. The system provides improved fuel economy, reduced exhaust gas emissions, and eliminates idling noise while the engine is stopped.

Engine idle stopping and restarting

NOTE

- *After parking the vehicle, make sure that the ignition is switched OFF. There is the possibility of the vehicle moving if the vehicle is parked while i-stop is operating.*
- *The i-stop indicator light (green) turns on under the following conditions:*
  - *When engine idling is stopped.*



- *The i-stop indicator light (green) turns off when the engine is restarted.*

(AUTOHOLD operation turned off and When not using Mazda Radar Cruise Control with Stop & Go function (MRCC with Stop & Go function)/ Cruising & Traffic Support (CTS))

1. Engine idling stops when the brake pedal is depressed while the vehicle is driven (except for driving in the R or M position second gear fixed mode) and the vehicle is stopped.
2. The engine restarts automatically when the brake pedal is released with the selector lever in the D or M position (not in second gear fixed mode).
3. If the selector lever is in the N or P position, the engine does not restart when the brake pedal is released. The engine restarts when the brake pedal is depressed again or the selector lever is shifted to the D, M (not in second gear fixed mode) or the R position. (For the purposes of safety, always keep the brake pedal depressed when shifting the selector lever while engine idling is stopped.)

(When the vehicle is stopped by the MRCC with Stop & Go function/CTS stop hold control)

1. When the vehicle is stopped by the MRCC with Stop & Go function/CTS, engine idling stops and continues to be stopped without depressing the brake pedal.
2. When the accelerator pedal is depressed or the RES switch is operated, while the vehicle is stopped by the MRCC with Stop & Go function/CTS, the engine will automatically restart if the selector lever is in the D/M position (not in second gear fixed mode).

(When the vehicle is stopped by the AUTOHOLD function)

1. When the brake pedal is depressed while the vehicle is being driven and the vehicle comes to a stop, the i-stop function will operate and continue to operate even if the brake is released (except when driving in the R or M position second gear fixed mode).
2. The engine restarts automatically when the accelerator pedal is depressed with the selector lever in the D/M position (not in second gear fixed mode).
3. If the selector lever is in the N or P position, the engine does not restart when the brake pedal is released. The engine restarts when the brake pedal is depressed again or the selector lever is shifted to the D, M (not in second gear fixed mode) or the R position. (For the purposes of safety, always keep the brake pedal depressed when shifting the selector lever while engine idling is stopped.)

Operation conditions

Under the following conditions, engine idling stops and the i-stop indicator light (green) turns on.

- The engine is warmed up.
- The engine has been started and the vehicle is driven for a certain period.
- The engine is started with the hood closed.
- All doors, liftgate, and hood are closed.
- The air conditioner is not operating with the airflow mode in the  position.
- **(Automatic climate control system)** The vehicle's interior temperature and the set temperature for the air conditioner are nearly the same.

- The i-stop warning light (amber) is not turned on/flashing.
- The keyless entry & push button start system functions are normal.
- The brake vacuum is sufficiently high.
- The battery is in good condition.
- The selector lever is in the D or M position (not in second gear fixed mode).
- The automatic transaxle fluid has warmed up sufficiently.
- The automatic transaxle fluid temperature is not abnormally high.
- The steering wheel is almost in the straight-ahead position (idling may not stop even with the steering wheel in the straight-ahead position if force is applied to the steering wheel. Release the force applied to the steering wheel to stop engine idling).
- The vehicle is stopped by depressing the brake pedal.
- The vehicle is not on a steep slope.
- The vehicle is not stopped suddenly.

NOTE
Under the following conditions, a period of time is required to stop engine idling

- *The battery power is depleted for some reason such as the vehicle has not been driven for a long period.*
- *The ambient temperature is high or low.*
- *After the battery terminals are disconnected for some reason such as for battery replacement.*

Engine-stop period is short or time until next engine idle stop is long

- *The ambient temperature is high or low.*
- *The battery power is depleted.*
- *Power consumption by the vehicle's electrical parts is high.*

Engine restarts automatically while engine idling is stopped
Under the following conditions, the engine restarts automatically.

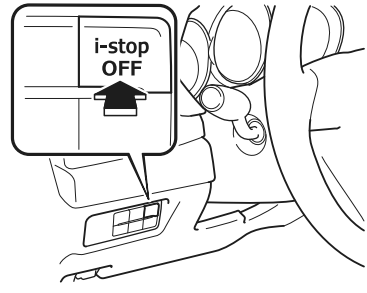
- *The i-stop OFF switch is pressed until the beep sounds.*
- *The air conditioner is operated with the airflow mode in the*  *position.*
- ***(Automatic climate control system)***
  The cabin temperature is largely different from the set temperature of the air conditioner.
- *The brakes are released slightly on a slope and the vehicle begins to move.*
- *Two minutes have elapsed since the idling was stopped.*
- *The battery power is depleted.*
- *The hood is opened.*
- *The driver's seat belt is unfastened and the driver's door is opened.*
- *The accelerator pedal is depressed with the selector lever in the D or M (not in second gear fixed mode) position.*
- *The selector lever is shifted to the R position.*
- *The selector lever is shifted from N or P position to D or M (not in second gear fixed mode) position.*
- *The steering wheel is operated with the selector lever in the D or M (not in second gear fixed mode) position.*
- *The selector lever is in the M position and the second gear fixed mode is selected.*
- *With the selector lever in the P or N position, or the D/M range, the driver's seat belt is unfastened, the driver's door is opened, or the hood is opened.*

・The steering wheel is operated.

Selector lever is operated while engine idling is stopped
If the selector lever is shifted from D or M (not in second gear fixed mode) position to N or P position while engine idling is stopped, the engine does not restart even when the brake pedal is released. The engine will restart if the brake pedal is depressed again or the selector lever is shifted to the D, M (not in second gear fixed mode), or R position. (For the purposes of safety, always keep the brake pedal depressed when shifting the selector lever.)
If the selector lever is shifted from the D or M (not in second gear fixed mode) to the N or P position, and the driver's seat belt is unfastened or the driver's door is opened, the engine restarts.
Battery terminals have been disconnected
Engine idling may not stop right after the battery terminals have been disconnected. In addition, if the battery is replaced, the i-stop functions must be verified. Consult an Authorized Mazda Dealer.

▼ i-stop OFF Switch

When pressing the switch, the i-stop function stops and the i-stop OFF switch indicator light turns on. If the switch is pressed again, the i-stop function becomes operational and the i-stop OFF switch indicator light turns off.



1. Indicator light

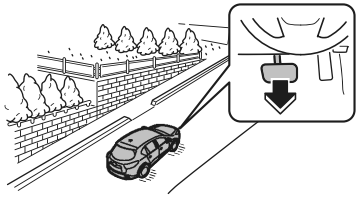
NOTE
If the engine is stopped with the i-stop function stopped, the i-stop function becomes operational again when the engine is started the next time.

▼ Vehicle Roll Prevention Function

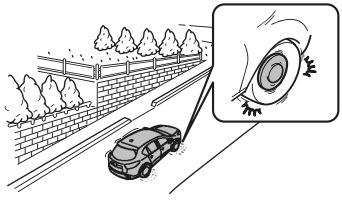
Vehicles with the i-stop function are equipped with a vehicle roll prevention function. This function prevents the vehicle from rolling, such as when releasing the brake pedal while on a slope under the following conditions:

- While engine idling is stopped (prevents the vehicle from rolling back)
- When the engine restarts after releasing the brake pedal (prevents the vehicle's sudden movement due to vehicle creep), sudden movement of the vehicle is prevented by controlling the brakes.

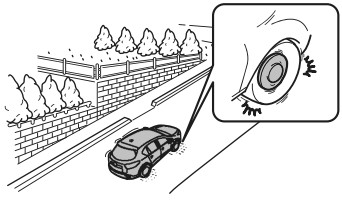
1. Release foot from brake pedal



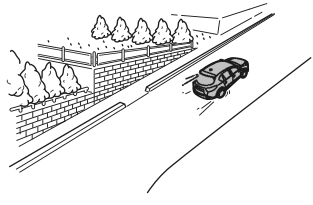
2. Vehicle brake force maintained



3. Engine restarted



4. Acceleration



⚠ WARNING

Do not rely completely on the vehicle roll prevention function.

- *The vehicle roll prevention function is a supplementary function which operates for a maximum of 2 seconds after releasing the brake pedal and accelerating the vehicle from an engine idling stop condition. Over reliance on the system may result in an unexpected accident if the vehicle were to suddenly accelerate. Before starting to drive the vehicle, always confirm the safety of the surroundings and operate the selector lever, brake pedal, and accelerator pedal appropriately. Note that the vehicle may move suddenly depending on the vehicle's load or if it is towing something.*
- *Note that the vehicle may move suddenly after the vehicle roll prevention function is released while the vehicle is under the following conditions:*
  - *The selector lever is in the N position.*
  - *If the selector lever is shifted to the N position and the brake pedal is released while the i-stop function is operating, the brake force is gradually released. To accelerate the vehicle, release the brake pedal after the engine restarts and shift the selector lever to a position other than the N position.*

NOTE

- *When the vehicle is stopped on a steep grade, the vehicle roll prevention function does not operate because engine idling is not stopped.*

- *The brake pedal response may change, sound may occur from the brakes, or the brake pedal could vibrate from the operation of the vehicle roll prevention function. However, this does not indicate a malfunction.*

▼ i-stop Warning Light (Amber)/i-stop Indicator Light (Green)

The i-stop system constantly monitors the driver's operations, the vehicle's interior and exterior environment, and the operational status of the vehicle, and uses the i-stop warning light (amber) and i-stop indicator light (green) to inform the driver of various cautions and warnings.

NOTE
On vehicles equipped with the center display, the i-stop operation status is displayed in the fuel efficiency monitor display.
Refer to the Fuel Efficiency Monitor section in the Mazda Connect Owner's Manual or consult an Authorized Mazda Dealer.

i-stop warning light (amber)



When the light is turned on

- The light turns on when the ignition is switched ON and turns off when the engine is started.
- If the i-stop warning light (amber) remains on while the engine is running, the battery performance may have decreased. Have your vehicle inspected by an Authorized Mazda Dealer.

NOTE
A problem in the system may be indicated under the following conditions. Have your vehicle inspected by an Authorized Mazda Dealer.

- *The light does not turn on when the ignition is switched ON.*
- *The light continues to remain on while the engine is running.*

When the light is flashing

The light continues to flash if the system has a malfunction. Have your vehicle inspected by an Authorized Mazda Dealer.

i-stop indicator light (green)



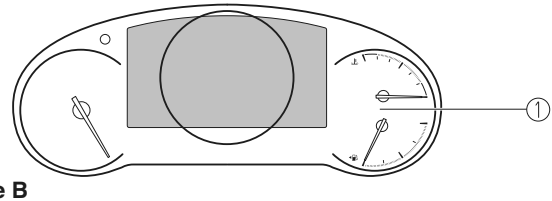
When the light is turned on

The light turns on while engine idling is stopped and turns off when the engine is restarted.

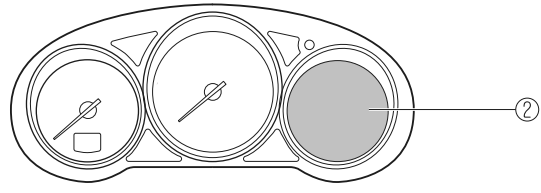
Instrument Cluster and Display

Instrument Cluster

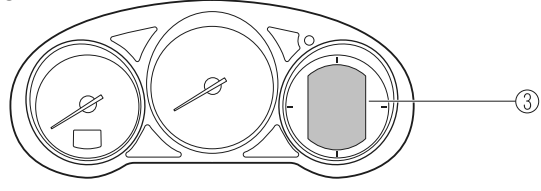
Type A



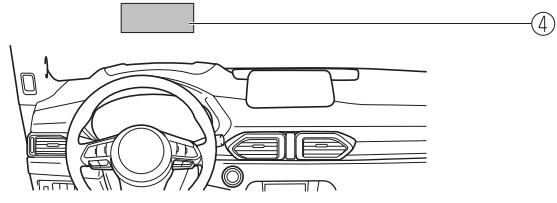
Type B



Type C

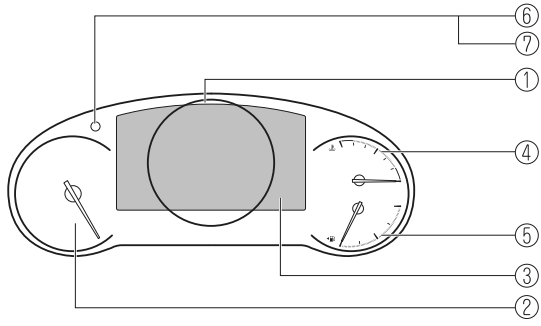


Active Driving Display



① Instrument Cluster (Type A)..... page 4-18
② Instrument Cluster (Type B).....page 4-36
③ Instrument Cluster (Type C).....page 4-52
④ Active Driving Display..... page 4-64

Instrument Cluster (Type A)



① Speedometer.....page 4-18
② Tachometer.....page 4-18
③ Multi-information Display (Type A).....page 4-20
④ Engine Coolant Temperature Gauge.....page 4-23
⑤ Fuel Gauge.....page 4-24
⑥ Dashboard Illumination.....page 4-24
⑦ Speed Unit Selector.....page 4-25

Free/Open Source Software Information
This product includes free/open sources. Information about the licensing and source code is available at the following URL.
https://www.nippon-seiki.co.jp/business_ic_meter/

▼ Speedometer

The speedometer indicates the speed of the vehicle.

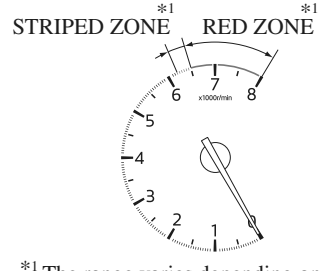
▼ Tachometer

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.

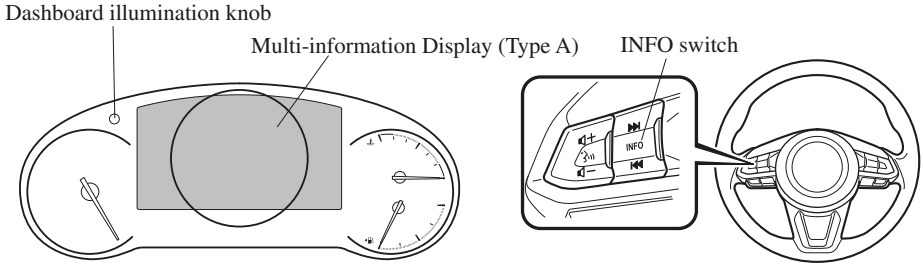
This may cause severe engine damage.



*1 The range varies depending on the type of gauge.

NOTE
When the tachometer needle enters the STRIPED ZONE, this indicates to the driver that the gears should be shifted before entering the RED ZONE.

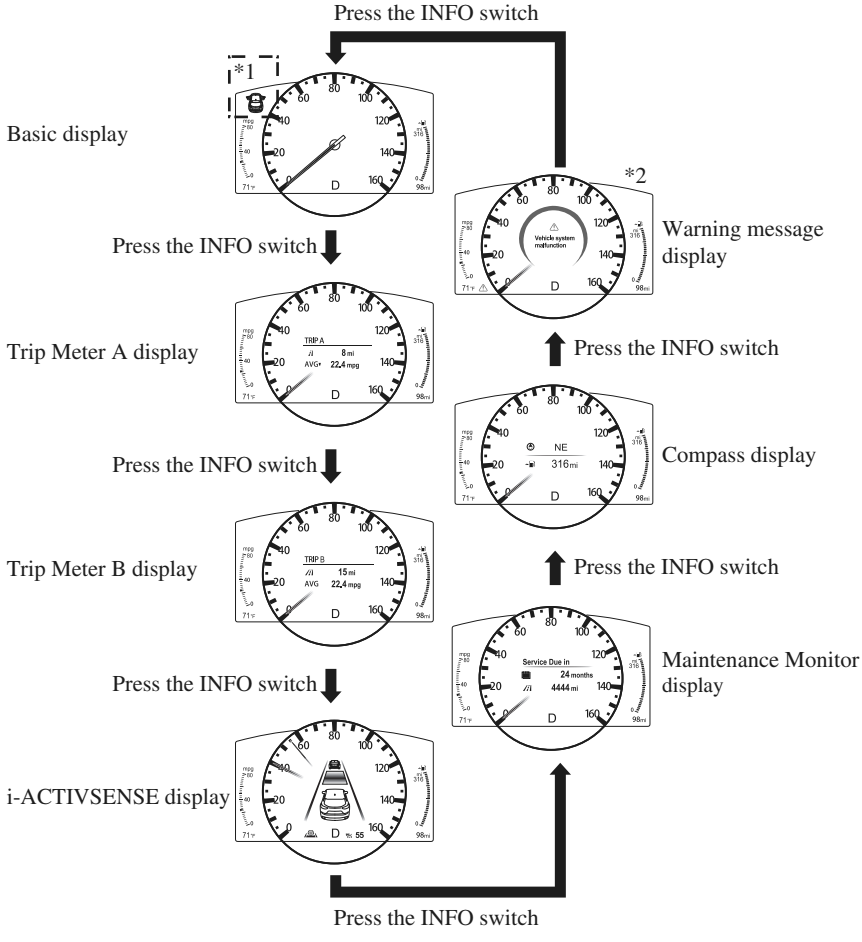
▼ Multi-information Display (Type A)



The multi-information display indicates the following information.

- Speedometer
- Odometer
- Trip meter
- Outside temperature
- Distance-to-empty
- Average fuel economy
- Current fuel economy
- Maintenance Monitor
- Mazda intelligent Drive Select (Mi-Drive) Display
- Blind Spot Monitoring (BSM) Display
- Traffic Sign Recognition System (TSR) Display
- Distance Recognition Support System (DRSS) Display
- Mazda Radar Cruise Control with Stop & Go function (MRCC with Stop & Go function) System Display
- Cruising & Traffic Support (CTS) Display
- Lane-keep Assist System (LAS) & Lane Departure Warning System (LDWS) Display
- Cruise Control Display
- Compass Display
- Door-Ajar/Liftgate-Ajar Warning Indication
- Message Display

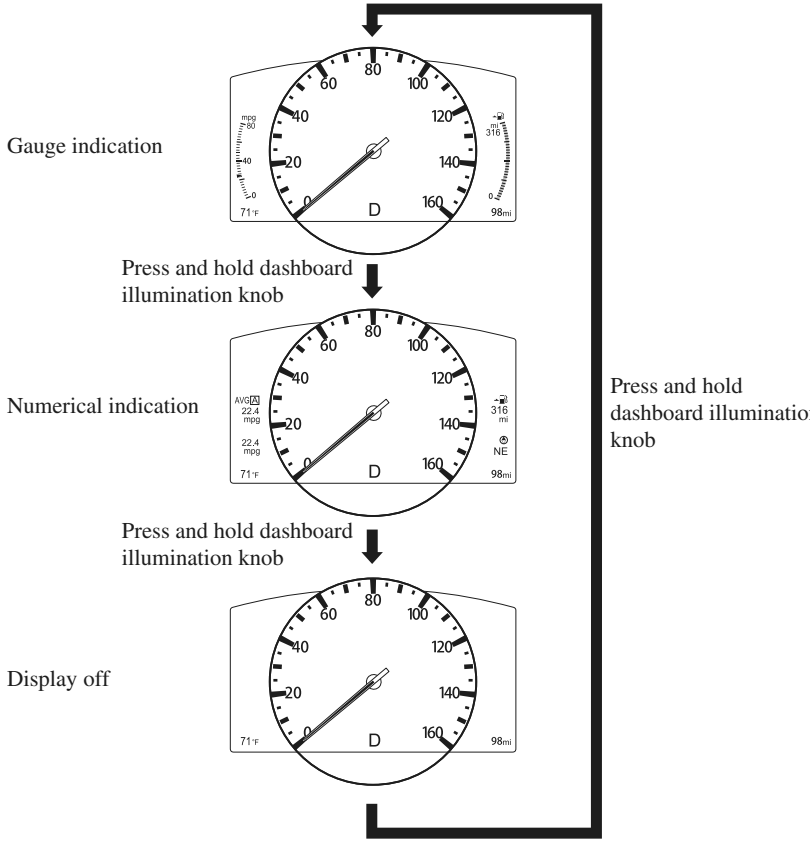
The screen content changes each time the INFO switch is pressed.



*1: Displayed when opening/closing door/trunk lid.
*2: Displayed only when a warning occurs.

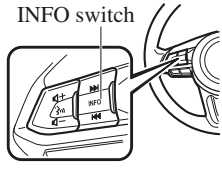
Instrument Cluster and Display

The screen content changes each time the dashboard illumination knob is pressed and held.

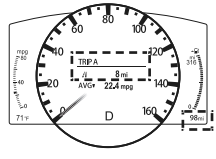


▼ Odometer, Trip Meter and Trip Meter Selector

The odometer is constantly displayed on the screen when the ignition is switched ON, and the TRIP A or TRIP B screen can be displayed by operating the INFO switch.

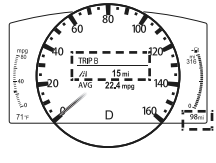


Trip Meter A display



Press the INFO switch

Trip Meter B display



Odometer

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

Trip meter

The driving distance for a specified interval is indicated. Two types (TRIP A, TRIP B) of interval distance and the average fuel economy for each can be measured.

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

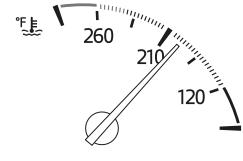
The trip meter and average fuel economy can be reset by pressing the INFO switch for 1.5 seconds or more while in each mode.

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 9999.9 km (mile).*

▼ Engine Coolant Temperature Gauge

Displays the engine coolant temperature. The blue range of the gauge indicates that the engine coolant temperature is low, and the red range of the gauge indicates that the engine coolant temperature is high and overheating.



⚠ CAUTION

If the engine coolant temperature gauge needle is in the red range, there is the possibility of overheating. Drive slowly to reduce engine load until you can find a safe place to stop the vehicle and wait for the engine to cool down.
Refer to Overheating on page 7-17.

NOTE

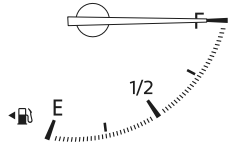
- ***(SKYACTIV-G 2.5T)***

  If the engine coolant temperature is high or the engine is hot, the engine output may be limited.

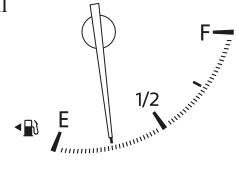
▼ Fuel Gauge

The fuel gauge shows approximately how much fuel is remaining in the tank when the ignition is switched ON. We recommend keeping the tank over 1/4 full.

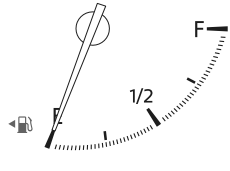
Full



1/4 Full



Empty



If the low fuel warning light illuminates or the fuel level is very low, refuel as soon as possible.
If inconsistency in engine performance or stalling occurs due to low fuel level conditions, refuel the vehicle as soon as possible and add at least 10 L (2.7 US gal, 2.2 Imp gal) of fuel.
Refer to Taking Action on page 7-31.

NOTE

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

▼ Dashboard Illumination

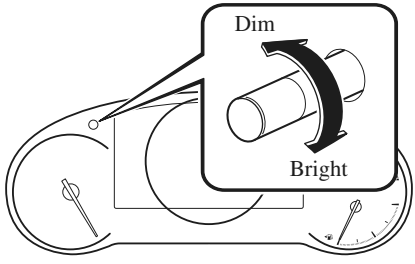
When the lights are turned on with the ignition switched ON, the brightness of the dashboard illumination is dimmed. However, when the light sensor detects that the surrounding area is bright such as when the lights are turned on in the daytime, the dashboard illumination does not dim.

NOTE

- *When the ignition is switched ON in the early evening or at dusk, the dashboard illumination is dimmed for several seconds until the light sensor detects the brightness of the surrounding area, however, the dimming may cancel after the brightness is detected.*
- *When the lights are turned on, the lights-on indicator light in the instrument cluster turns on.*
  Refer to Headlights on page 4-76.

The brightness of the instrument cluster and dashboard illuminations can be adjusted by rotating the knob.

- The brightness decreases by rotating the knob to the left. A beep sound will be heard when the knob has been rotated to the maximum dim position.
- The brightness increases by rotating the knob to the right.



Function for canceling illumination dimmer

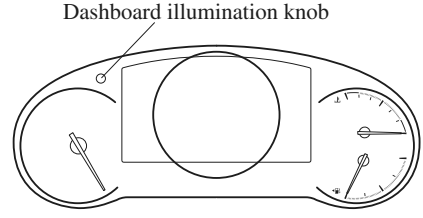
The illumination dimmer can be canceled by rotating the dashboard illumination knob to the right until a beep sound is heard while the instrument cluster is dimmed with the ignition switched ON. If the instrument cluster's visibility is reduced due to glare from surrounding brightness, cancel the illumination dimmer.

NOTE

- *When the illumination dimmer is canceled, the instrument cluster cannot be dimmed even if the lights are turned on.*
- *When the illumination dimmer is canceled, the screen in the center display switches to constant display of the daytime screen.*

▼ Speed Unit Selector

In some countries, you may have to change the speed units between km/h and mph.
When pressing the dashboard illumination knob, the speed units in the instrument cluster will change.



▼ Outside Temperature Display

When the ignition is switched ON, the outside temperature is displayed.

71 °F

NOTE

- *Under the following conditions, the outside temperature display may differ from the actual outside temperature depending on the surroundings and vehicle conditions:*
  - *Significantly cold or hot temperatures.*
  - *Sudden changes in outside temperature.*
  - *The vehicle is parked.*
  - *The vehicle is driven at low speeds.*

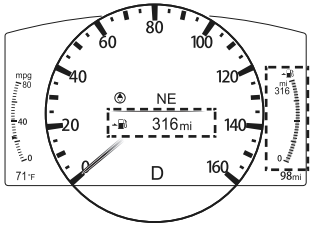
Changing the Temperature Unit of the Outside Temperature Display

The outside temperature unit can be switched between Celsius and Fahrenheit.

Settings can be changed by operating the center display screen.
Refer to the Settings section in the Mazda Connect Owner's Manual.

▼ Distance-to-empty

This displays the approximate distance you can travel on the remaining fuel based on the fuel economy.
The distance-to-empty will be calculated and displayed every second.

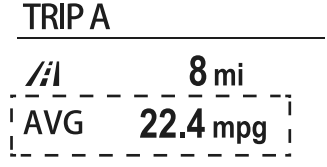


NOTE

- *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 level is very low or the low fuel warning light illuminates.*
- *The display will not change unless you add more than approximately 9 L (2.3 US gal, 1.9 Imp gal) of fuel.*
- *The distance-to-empty is the approximate remaining distance the vehicle can be driven until all the graduation marks in the fuel gauge indicating the remaining fuel supply disappear.*
- *If there is no past fuel economy information such as after first purchasing your vehicle or the information is deleted when the battery cables are disconnected, the actual distance-to empty/range may differ from the amount indicated.*

▼ Average Fuel Economy

The average fuel economy is calculated every minute from the total traveled distance on the trip meter and the total fuel consumption, and the average fuel economy for either TRIP A or TRIP B is displayed.



The average fuel economy and trip meters can be reset by pressing the INFO switch for 1.5 seconds or more while in each mode. After the data is cleared, the fuel consumption is recalculated and the - - - km/L (- - - mpg) for the 1 minute prior to it being displayed is indicated.

▼ Current Fuel Economy

This displays the current fuel economy by calculating the amount of fuel consumption and the distance traveled.



NOTE

- *Indicates the 0 position when the vehicle speed is about 5 km/h (3 mph) or slower.*
- *The arrow on the scale indicates the average fuel economy.*

▼ Maintenance Monitor

The following maintenance period notifications can be displayed by turning the Maintenance Monitor on.

- Scheduled Maintenance
- Tire Rotation
- Oil Change

When the remaining days to the maintenance period is 15 days or less, or the remaining distance is 1,000 km (600 miles) or shorter, a message is indicated when the ignition is switched ON.



Service Soon

500 mi

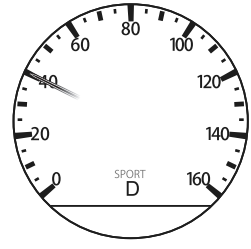
For the setting method and indications for the maintenance monitor, refer to the Maintenance Monitor.

Refer to the Information section in the Mazda Connect Owner's Manual.

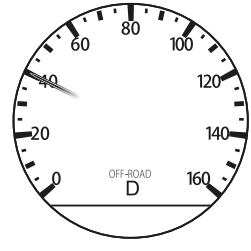
▼ Mazda intelligent Drive Select (Mi-Drive) Display

The display changes depending on the driving mode.

Sport mode

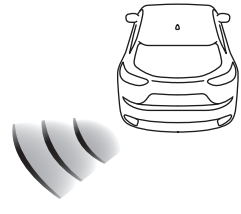


Off-road mode*



▼ Blind Spot Monitoring (BSM) Display

Displays the system status.

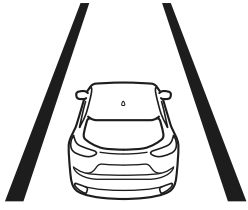


Refer to Blind Spot Monitoring (BSM) on page 4-128.

*Some models.

▼ Lane-keep Assist System (LAS) & Lane Departure Warning System (LDWS) Display*

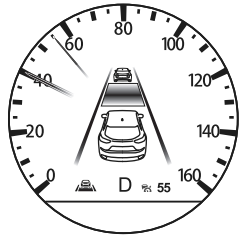
Displays the system status.



Refer to Lane-keep Assist System (LAS) & Lane Departure Warning System (LDWS) on page 4-180.

▼ Mazda Radar Cruise Control with Stop & Go function (MRCC with Stop & Go function) Display*

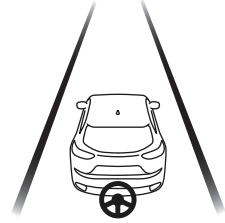
Displays the currently set system status.



Refer to Mazda Radar Cruise Control with Stop & Go function (MRCC with Stop & Go function) on page 4-149.

▼ Cruising & Traffic Support (CTS) Display*

Displays the currently set system status.

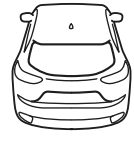


Refer to Cruising & Traffic Support (CTS) on page 4-164.

▼ Distance Recognition Support System (DRSS) Display*

Displays the distance between your vehicle and the vehicle ahead.



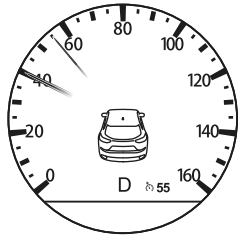


Refer to Distance Recognition Support System (DRSS) on page 4-139.

*Some models.

▼ Cruise Control Set Vehicle Speed Display*

The vehicle speed preset using the cruise control is displayed.



Refer to Cruise Control on page 4-246.

▼ Compass Display

The direction the vehicle is moving is displayed in one of eight directions while the vehicle is being driven.



Display	Direction
N	North
S	South
E	East
W	West
NE	Northeast
NW	Northwest
SE	Southeast
SW	Southwest

▼ Message Display

A message such as the system operation status, a malfunction, or an abnormality is indicated.

Warning/indicator light in instrument cluster turns on/flashes or symbol is indicated on display at same time as message

Check the information regarding the warning/indicator light or indicated symbol.
Refer to If a Warning Indication/Warning Lights on page 4-30.
Refer to If a Indication/Indicator Lights on page 4-32.

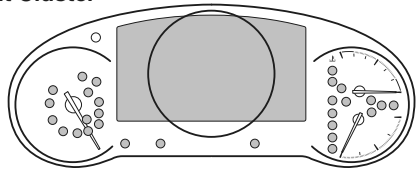
Message only is indicated on display

Follow the instructions indicated on the display. For the display content, refer to the next page.
Refer to If a Message Indicated on Multi-information Display on page 7-37.

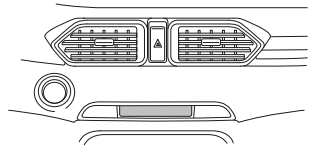
▼ Warning/Indicator Lights

Instrument Cluster varies depending on model and specifications.

Instrument Cluster



Center of Dashboard



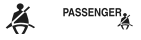
Warning lights will appear in any of the highlighted areas

▼ Warning Indication/Warning Lights

These lights turn on or flash to notify the user of the system operation status or a system malfunction.

Signal	Warning	Page
BRAKE	Brake System Warning Indication/Warning Light*1*2	7-22
ABS	ABS Warning Light*1	Electronic Brake Force Distribution System Warning 7-22 ABS warning 7-25
	Charging System Warning Indication/Warning Light*1	7-22
	Engine Oil Warning Light*1	7-22
	High Engine Coolant Temperature Warning Indication	7-22
	Power Steering Malfunction Indication	7-22
	Master Warning Indication/Warning Light	7-25

Signal	Warning	Page
	Electric Parking Brake (EPB) Warning Indication/Warning Light*1	7-25
	Check Engine Light*1	7-25
 (Amber)	*i-stop Warning Light*1	7-25
	Automatic Transaxle Warning Indication	7-25
	*AWD Warning Indication	7-25
	Air Bag/Seat Belt Pretensioner System Warning Light*1	7-25
	Tire Pressure Monitoring System Warning Light*1	Flashing 7-25
		Turns on 7-31
 (Amber/White)	KEY Warning Indication	Amber 7-25
		White 7-31
 (Amber)	*High Beam Control System (HBC) Warning Indication/Warning Light*1	7-25
	*Blind Spot Monitoring (BSM) Warning Indication	7-25
 (Amber)	*Driver Attention Alert (DAA) Warning Indication	7-25
 (Amber)	*Mazda Radar Cruise Control with Stop & Go function (MRCC with Stop & Go function) Warning Indication	7-25
	*Cruising & Traffic Support (CTS) Warning Indication	7-25
	*Lane-keep Assist System (LAS) & Lane Departure Warning System (LDWS) Warning Indication	7-25
	LED Headlight Warning Light*1	7-25
	*Smart Brake Support/Smart City Brake Support (SBS/SCBS) Warning Indication	7-31
	Low Fuel Warning Indication/Warning Light	7-31

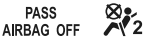
Signal	Warning	Page
	Check Fuel Cap Warning Indication/Warning Light*1	7-31
	Engine Oil Level Warning Light*1	7-31
	Seat Belt Warning Light (Front seat)	7-31
 (Red)	Seat Belt Warning Light (Rear seat)	7-31
	*Low Washer Fluid Level Warning Indication	7-31
	Door-Ajar Warning Indication	7-31
	Liftgate-Ajar Warning Indication	7-31
	Hood-Ajar Warning Indication (With i-stop)	7-31
	Door-Ajar Warning Light	7-31

*1 The light turns on when the ignition is switched on for an operation check, and turns off a few seconds later or when the engine is started. If the light does not turn on or remains turned on, have the vehicle inspected at an Authorized Mazda Dealer.

*2 The light turns on continuously when the parking brake is applied.

▼ Indication/Indicator Lights

These lights turn on or flash to notify the user of the system operation status or a system malfunction.

Signal	Indicator	Page
 (Green)	Seat Belt Indicator Light (Rear seat)	2-30
	*Front Passenger Air Bag Deactivation Indicator Light*1	2-72
	Security Indicator Light*1	3-43
 (Green)	*i-stop Indicator Light	4-16
	Wrench Indication	4-35

Signal	Indicator	Page
	Shift Position Indication	4-68
	Lights-On Indication/Indicator Light	4-76
	Headlight High-Beam Indicator Light	Headlight High-Low Beam 4-80
		Flashing the Headlights 4-80
	Turn Signal/Hazard Warning Indicator Lights	Turn and Lane-Change Signals 4-82
		Hazard Warning Flasher 4-90
HOLD	AUTOHOLD Active Indicator Light*1	4-105
	*Mazda Radar Cruise Control with Stop & Go function (MRCC with Stop & Go function) indicator Light	4-160
	*Cruising & Traffic Support (CTS) indicator Light	4-179
	TCS/DSC Indicator Light*1	Traction Control System (TCS) 4-110
		Dynamic Stability Control (DSC) 4-112
		Turns on 7-25
TCS OFF	*TCS OFF Indicator Light*1	4-110
	*Off-Road Traction Assist Indicator Light*1	4-113
SPORT	Select Mode Indication	4-115
 (Green)	*High Beam Control System (HBC) Indicator Light	4-126

Instrument Cluster and Display

Signal	Indicator	Page
	*Blind Spot Monitoring (BSM) OFF Indicator Light*1	Malfunction 7-25
		Except malfunction 4-132
 (White)	*Driver Attention Alert (DAA) Indication	4-144
 (White)	*Mazda Radar Cruise Control with Stop & Go function (MRCC with Stop & Go function) Main Indication	4-154
	*Cruising & Traffic Support (CTS) Main Indication	4-172
 (Green)	*Mazda Radar Cruise Control with Stop & Go function (MRCC with Stop & Go function) Set Indication	4-154
	*Cruising & Traffic Support (CTS) Set Indication	4-172
	*Lane-keep Assist System (LAS) & Lane Departure Warning System (LDWS) Indication	4-182
	*Lane-keep Assist System (LAS) & Lane Departure Warning System (LDWS) OFF Indicator Light*1	4-192
	*Smart City Brake Support (SCBS) Indication	Advanced Smart City Brake Support (Advanced SCBS) 4-195
		Smart City Brake Support [Forward] (SCBS F) 4-198
		Smart City Brake Support [Reverse] (SCBS R) 4-203

 *Some models.

Signal	Indicator	Page
	*Smart Brake Support/Smart City Brake Support (SBS/SCBS) OFF Indicator Light*1	Advanced Smart City Brake Support (Advanced SCBS) 4-195
		Smart City Brake Support [Forward] (SCBS F) 4-198
		Smart City Brake Support [Reverse] (SCBS R) 4-203
		Smart Brake Support (SBS) System 4-205
 (White)	*Cruise Main Indication	4-247
 (Green)	*Cruise Set Indication	4-247

*1 The light turns on when the ignition is switched on for an operation check, and turns off a few seconds later or when the engine is started. If the light does not turn on or remains turned on, have the vehicle inspected at an Authorized Mazda Dealer.

▼ Wrench Indication



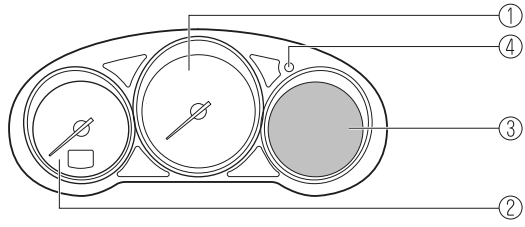
The wrench indication is displayed under the following conditions.

- When the preset maintenance period has arrived.
  Refer to the Information section in the Mazda Connect Owner's Manual.
- When the engine oil replacement period has arrived.

NOTE

- *The wrench indication may display earlier than the preset period depending on vehicle usage conditions.*
- *Whenever the engine oil is replaced, a reset of the vehicle engine control unit is necessary.*
  Refer to the Information section in the Mazda Connect Owner's Manual.

Instrument Cluster (Type B)



① Speedometer.....page 4-36
② Tachometer.....page 4-36
③ Multi-information Display (Type B).....page 4-37
④ Dashboard Illumination.....page 4-41

▼ Speedometer

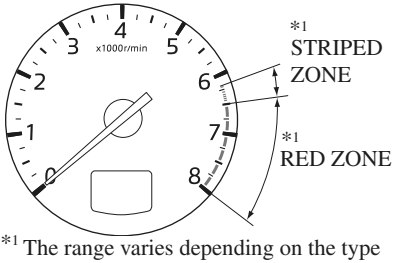
The speedometer indicates the speed of the vehicle.

▼ 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.

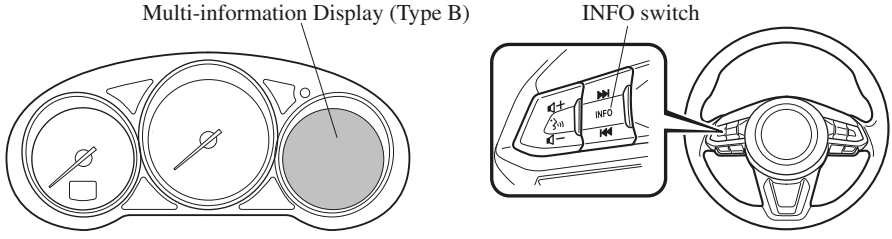


*1 The range varies depending on the type of gauge.

NOTE

When the tachometer needle enters the STRIPED ZONE, this indicates to the driver that the gears should be shifted before entering the RED ZONE.

▼ Multi-information Display (Type B)

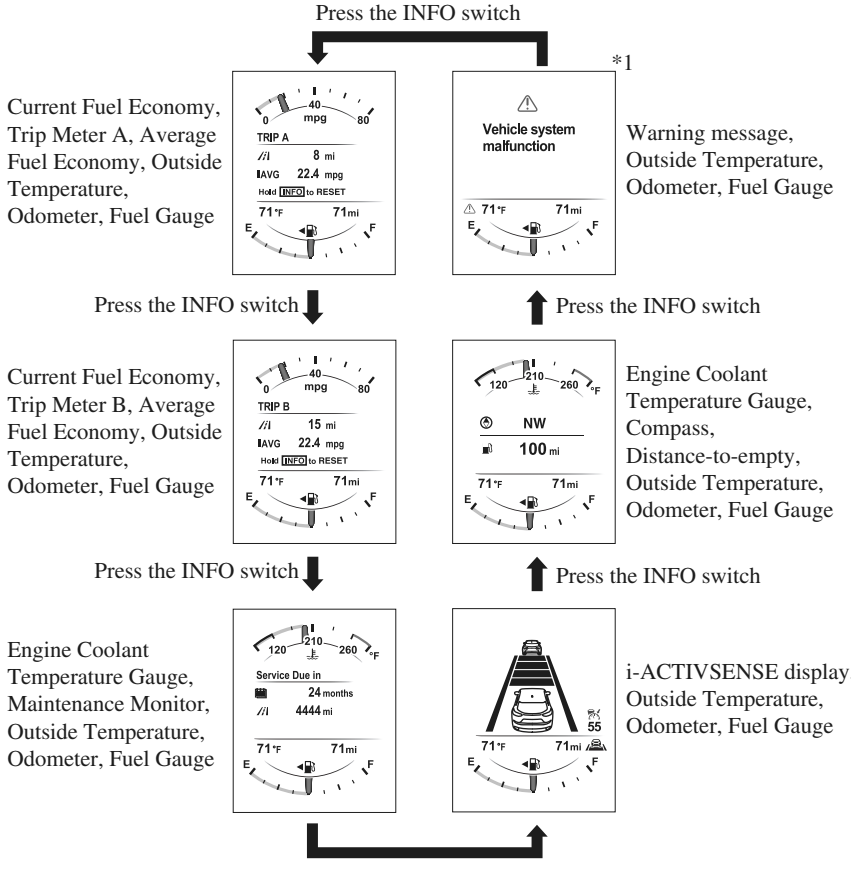


The multi-information display indicates the following information.

- Odometer
- Trip meter
- Engine coolant temperature gauge
- Fuel gauge
- Outside temperature
- Distance-to-empty
- Average fuel economy
- Current fuel economy
- Maintenance Monitor
- Blind Spot Monitoring (BSM) Display
- Distance Recognition Support System (DRSS) Display
- Mazda Radar Cruise Control with Stop & Go function (MRCC with Stop & Go function) System Display
- Cruising & Traffic Support (CTS) Display
- Lane-keep Assist System (LAS) & Lane Departure Warning System (LDWS) Display
- Cruise Control Display
- Compass Display
- Message Display

Instrument Cluster and Display

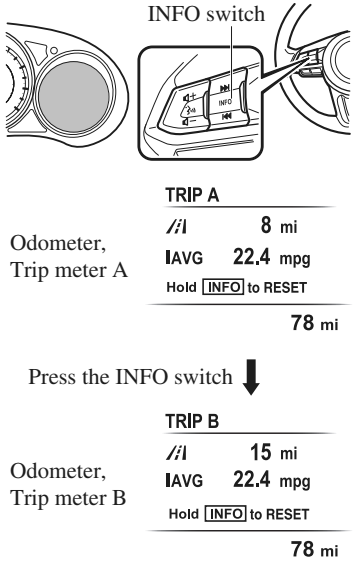
The screen content changes each time the INFO switch is pressed.



*1: Displayed only when a warning occurs.

▼ Odometer, Trip Meter and Trip Meter Selector

The odometer is constantly displayed on the screen when the ignition is switched ON, and the TRIP A or TRIP B screen can be displayed by operating the INFO switch.



Odometer

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

Trip meter

The driving distance for a specified interval is indicated. Two types (TRIP A, TRIP B) of interval distance and the average fuel economy for each can be measured.

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

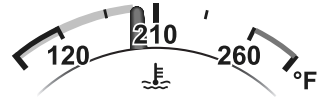
The trip meter and average fuel economy can be reset by pressing the INFO switch for 1.5 seconds or more while in each mode.

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 9999.9 km (mile).*

▼ Engine Coolant Temperature Gauge

Displays the engine coolant temperature. The blue range of the gauge indicates that the engine coolant temperature is low, and the red range of the gauge indicates that the engine coolant temperature is high and overheating.



⚠ CAUTION

If the high engine coolant temperature warning light (red) flashes, there is a possibility of overheating. Drive slowly to reduce engine load until you can find a safe place to stop the vehicle and wait for the engine to cool down.
Refer to Overheating on page 7-17.

NOTE

- ***(SKYACTIV-G 2.5T)***

  If the engine coolant temperature is high or the engine is hot, the engine output may be limited.
- *The temperature unit (Centigrade/ Fahrenheit) of the engine coolant gauge display changes in conjunction with the temperature unit of the outside temperature display.*
  Refer to the Settings section in the Mazda Connect Owner's Manual.

▼ Fuel Gauge

The fuel gauge shows approximately how much fuel is remaining in the tank when the ignition is switched ON. We recommend keeping the tank over 1/4 full.

Full



1/4 Full



Empty



If the fuel level is low, (◂⛽) and (E) turn an amber color. Refuel as soon as possible.
If inconsistency in engine performance or stalling occurs due to low fuel level conditions, refuel the vehicle as soon as possible and add at least 10 L (2.7 US gal, 2.2 Imp gal) of fuel.
Refer to Taking Action on page 7-31.

NOTE

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

▼ Dashboard Illumination

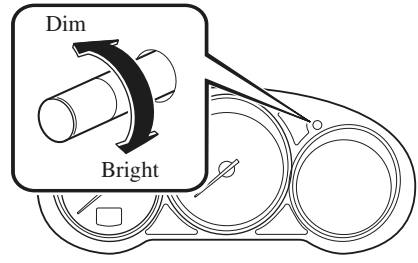
(Without auto-light control)
When the lights are turned on with the ignition switched ON, the brightness of the dashboard illumination is dimmed.
(With auto-light control)
When the lights are turned on with the ignition switched ON, the brightness of the dashboard illumination is dimmed. However, when the light sensor detects that the surrounding area is bright such as when the lights are turned on in the daytime, the dashboard illumination does not dim.

NOTE

- ***(With auto-light control)***
  When the ignition is switched ON in the early evening or at dusk, the dashboard illumination is dimmed for several seconds until the light sensor detects the brightness of the surrounding area, however, the dimming may cancel after the brightness is detected.
- *When the lights are turned on, the lights-on indicator light in the instrument cluster turns on.*
  Refer to Headlights on page 4-76.

The brightness of the instrument cluster and dashboard illuminations can be adjusted by rotating the knob.

- The brightness decreases by rotating the knob to the left. A beep sound will be heard when the knob has been rotated to the maximum dim position.
- The brightness increases by rotating the knob to the right.



Function for canceling illumination dimmer

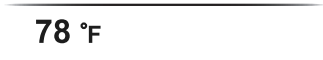
The illumination dimmer can be canceled by rotating the dashboard illumination knob to the right until a beep sound is heard while the instrument cluster is dimmed with the ignition switched ON. If the instrument cluster's visibility is reduced due to glare from surrounding brightness, cancel the illumination dimmer.

NOTE

- *The illumination dimmer can be canceled by pressing the dashboard illumination knob.*
- *When the illumination dimmer is canceled, the instrument cluster cannot be dimmed even if the lights are turned on.*
- *When the illumination dimmer is canceled, the screen in the center display switches to constant display of the daytime screen.*

▼ Outside Temperature Display

When the ignition is switched ON, the outside temperature is displayed.



NOTE

- *Under the following conditions, the outside temperature display may differ from the actual outside temperature depending on the surroundings and vehicle conditions:*
  - *Significantly cold or hot temperatures.*
  - *Sudden changes in outside temperature.*
  - *The vehicle is parked.*
  - *The vehicle is driven at low speeds.*

Changing the Temperature Unit of the Outside Temperature Display

The outside temperature unit can be switched between Celsius and Fahrenheit. Settings can be changed by operating the center display screen.
Refer to the Settings section in the Mazda Connect Owner's Manual.

NOTE
When the temperature unit indicated in the outside temperature display is changed, the temperature unit indicated in the engine coolant gauge display changes in conjunction with it.

▼ Distance-to-empty

This displays the approximate distance you can travel on the remaining fuel based on the fuel economy.
The distance-to-empty will be calculated and displayed every second.

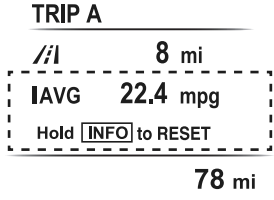


NOTE

- *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 level is very low or the low fuel warning light illuminates.*
- *The display will not change unless you add more than approximately 9 L (2.3 US gal, 1.9 Imp gal) of fuel.*
- *The distance-to-empty is the approximate remaining distance the vehicle can be driven until all the graduation marks in the fuel gauge indicating the remaining fuel supply disappear.*
- *If there is no past fuel economy information such as after first purchasing your vehicle or the information is deleted when the battery cables are disconnected, the actual distance-to empty/range may differ from the amount indicated.*

▼ Average Fuel Economy

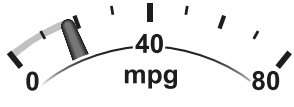
The average fuel economy is calculated every minute from the total traveled distance on the trip meter and the total fuel consumption, and the average fuel economy for either TRIP A or TRIP B is displayed.



The average fuel economy and trip meters can be reset by pressing the INFO switch for 1.5 seconds or more while in each mode. After the data is cleared, the fuel consumption is recalculated and the - - - km/L (- - - mpg) for the 1 minute prior to it being displayed is indicated.

▼ Current Fuel Economy

This displays the current fuel economy by calculating the amount of fuel consumption and the distance traveled.



NOTE

Indicates the 0 position when the vehicle speed is about 5 km/h (3 mph) or slower.

▼ Maintenance Monitor

The following maintenance period notifications can be displayed by turning the Maintenance Monitor on.

- Scheduled Maintenance
- Tire Rotation
- Oil Change

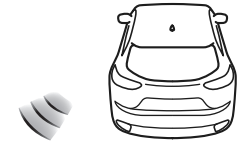
When the remaining days to the maintenance period is 15 days or less, or the remaining distance is 1,000 km (600 miles) or shorter, a message is indicated when the ignition is switched ON.



For the setting method and indications for the maintenance monitor, refer to the Maintenance Monitor.
Refer to the Information section in the Mazda Connect Owner's Manual.

▼ Blind Spot Monitoring (BSM) Display*

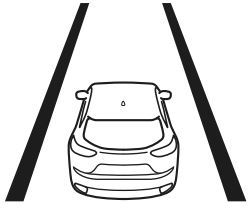
Displays the system status.



Refer to Blind Spot Monitoring (BSM) on page 4-128.

▼ Lane-keep Assist System (LAS) & Lane Departure Warning System (LDWS) Display*

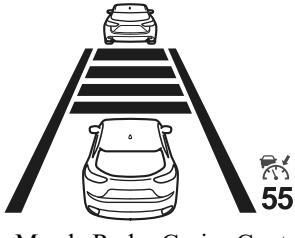
Displays the system status.



Refer to Lane-keep Assist System (LAS) & Lane Departure Warning System (LDWS) on page 4-180.

▼ Mazda Radar Cruise Control with Stop & Go function (MRCC with Stop & Go function) Display*

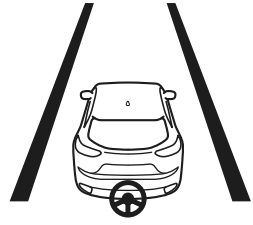
Displays the currently set system status.



Refer to Mazda Radar Cruise Control with Stop & Go function (MRCC with Stop & Go function) on page 4-149.

▼ Cruising & Traffic Support (CTS) Display*

Displays the currently set system status.

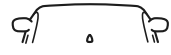


Refer to Cruising & Traffic Support (CTS) on page 4-164.

▼ Distance Recognition Support System (DRSS) Display*

Displays the distance between your vehicle and the vehicle ahead.





Refer to Distance Recognition Support System (DRSS) on page 4-139.

▼ Cruise Control Set Vehicle Speed Display*

The vehicle speed preset using the cruise control is displayed.



Refer to Cruise Control on page 4-246.

 *Some models.

▼ Compass Display

The direction the vehicle is moving is displayed in one of eight directions while the vehicle is being driven.



Display	Direction
N	North
S	South
E	East
W	West
NE	Northeast
NW	Northwest
SE	Southeast
SW	Southwest

▼ Message Display

A message such as the system operation status, a malfunction, or an abnormality is indicated.

Warning/indicator light in instrument cluster turns on/flashes or symbol is indicated on display at same time as message

Check the information regarding the warning/indicator light or indicated symbol.
Refer to If a Warning Indication/Warning Lights on page 4-46.
Refer to If a Indication/Indicator Lights on page 4-48.

Message only is indicated on display

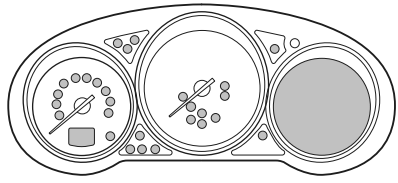
Follow the instructions indicated on the display. For the display content, refer to the next page.

Refer to If a Message Indicated on Multi-information Display on page 7-37.

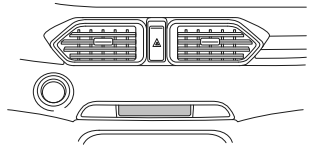
▼ Warning/Indicator Lights

Instrument Cluster varies depending on model and specifications.

Instrument Cluster



Center of Dashboard



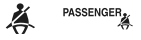
Warning lights will appear in any of the highlighted areas

▼ Warning Indication/Warning Lights

These lights turn on or flash to notify the user of the system operation status or a system malfunction.

Signal	Warning	Page
BRAKE	Brake System Warning Indication/Warning Light*1*2	7-22
ABS	ABS Warning Light*1	Electronic Brake Force Distribution System Warning 7-22 ABS warning 7-25
	Charging System Warning Indication/Warning Light*1	7-22
	Engine Oil Warning Light*1	7-22
(Red)	High Engine Coolant Temperature Warning Light*1	7-22
	Power Steering Malfunction Indication	7-22

Signal	Warning	Page
	Master Warning Indication/Warning Light	7-25
	Electric Parking Brake (EPB) Warning Indication/Warning Light*1	7-25
	Check Engine Light*1	7-25
i-stop (Amber)	*i-stop Warning Light*1	7-25
AT	Automatic Transaxle Warning Indication	7-25
4WD	*AWD Warning Indication	7-25
	Air Bag/Seat Belt Pretensioner System Warning Light*1	7-25
	Tire Pressure Monitoring System Warning Light*1	Flashing 7-25
		Turns on 7-31
 (Amber/White)	KEY Warning Indication	Amber 7-25
		White 7-31
 (Amber)	*High Beam Control System (HBC) Warning Indication/Warning Light*1	7-25
	*Blind Spot Monitoring (BSM) Warning Indication	7-25
 (Amber)	*Mazda Radar Cruise Control with Stop & Go function (MRCC with Stop & Go function) Warning Indication	7-25
	*Cruising & Traffic Support (CTS) Warning Indication	7-25
	*Lane-keep Assist System (LAS) & Lane Departure Warning System (LDWS) Warning Indication	7-25
	LED Headlight Warning Light*1	7-25
	*Smart Brake Support/Smart City Brake Support (SBS/SCBS) Warning Indication	7-31
	Low Fuel Warning Indication	7-31

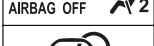
Signal	Warning	Page
	Check Fuel Cap Warning Indication/Warning Light*1	7-31
	Engine Oil Level Warning Light*1	7-31
	Seat Belt Warning Light (Front seat)	7-31
 (Red)	Seat Belt Warning Light (Rear seat)	7-31
	*Low Washer Fluid Level Warning Indication	7-31
	Door-Ajar Warning Indication	7-31
	Liftgate-Ajar Warning Indication	7-31
	Hood-Ajar Warning Indication (With i-stop)	7-31

*1 The light turns on when the ignition is switched on for an operation check, and turns off a few seconds later or when the engine is started. If the light does not turn on or remains turned on, have the vehicle inspected at an Authorized Mazda Dealer.

*2 The light turns on continuously when the parking brake is applied.

▼ Indication/Indicator Lights

These lights turn on or flash to notify the user of the system operation status or a system malfunction.

Signal	Indicator	Page
 (Green)	Seat Belt Indicator Light (Rear seat)	2-30
	*Front Passenger Air Bag Deactivation Indicator Light*1	2-72
	Security Indicator Light*1	3-43
 (Green)	*i-stop Indicator Light	4-16
	Wrench Indication	4-51
 (Blue)	Low Engine Coolant Temperature Indicator Light	4-51

Signal	Indicator	Page
	Shift Position Indication	4-68
	Lights-On Indication/Indicator Light	4-76
	Headlight High-Beam Indicator Light	Headlight High-Low Beam 4-80
		Flashing the Headlights 4-80
	Turn Signal/Hazard Warning Indicator Lights	Turn and Lane-Change Signals 4-82
		Hazard Warning Flasher 4-90
HOLD	AUTOHOLD Active Indicator Light*1	4-105
	*Mazda Radar Cruise Control with Stop & Go function (MRCC with Stop & Go function) indicator Light	4-160
	*Cruising & Traffic Support (CTS) indicator Light	4-179
	TCS/DSC Indicator Light*1	Traction Control System (TCS) 4-110
		Dynamic Stability Control (DSC) 4-112
		Turns on 7-25
TCS OFF	*TCS OFF Indicator Light*1	4-110
	*Off-Road Traction Assist Indicator Light*1	4-113
SPORT	Select Mode Indication	4-115
 (Green)	*High Beam Control System (HBC) Indicator Light	4-126

Instrument Cluster and Display

Signal	Indicator	Page
	*Blind Spot Monitoring (BSM) OFF Indicator Light*1	Malfunction 7-25
		Except malfunction 4-132
 (White)	*Mazda Radar Cruise Control with Stop & Go function (MRCC with Stop & Go function) Main Indication	4-154
	*Cruising & Traffic Support (CTS) Main Indication	4-172
 (Green)	*Mazda Radar Cruise Control with Stop & Go function (MRCC with Stop & Go function) Set Indication	4-154
	*Cruising & Traffic Support (CTS) Set Indication	4-172
	*Lane-keep Assist System (LAS) & Lane Departure Warning System (LDWS) Indication	4-182
	*Lane-keep Assist System (LAS) & Lane Departure Warning System (LDWS) OFF Indicator Light*1	4-192
	*Smart City Brake Support (SCBS) Indication	Advanced Smart City Brake Support (Advanced SCBS) 4-195
		Smart City Brake Support (SCBS) 4-198
	*Smart Brake Support/Smart City Brake Support (SBS/SCBS) OFF Indicator Light*1	Advanced Smart City Brake Support (Advanced SCBS) 4-195
		Smart City Brake Support (SCBS) 4-198
		Smart Brake Support (SBS) System 4-205
 (White)	*Cruise Main Indication	4-247

 *Some models.

Signal	Indicator	Page
 (Green)	*Cruise Set Indication	4-247

*1 The light turns on when the ignition is switched on for an operation check, and turns off a few seconds later or when the engine is started. If the light does not turn on or remains turned on, have the vehicle inspected at an Authorized Mazda Dealer.

▼ Wrench Indication



The wrench indication is displayed under the following conditions.

- When the preset maintenance period has arrived.
  Refer to the Information section in the Mazda Connect Owner's Manual.
- When the engine oil replacement period has arrived.

NOTE

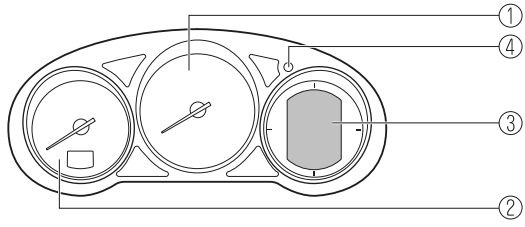
- *The wrench indication may display earlier than the preset period depending on vehicle usage conditions.*
- *Whenever the engine oil is replaced, a reset of the vehicle engine control unit is necessary.*
  Refer to the Information section in the Mazda Connect Owner's Manual.

▼ Low Engine Coolant Temperature Indicator Light (Blue)



The light illuminates continuously when the engine coolant temperature is low and turns off after the engine is warm.

Instrument Cluster (Type C)



① Speedometer.....page 4-52
② Tachometer.....page 4-52
③ Multi-information Display (Type C).....page 4-53
④ Dashboard Illumination.....page 4-55

▼ Speedometer

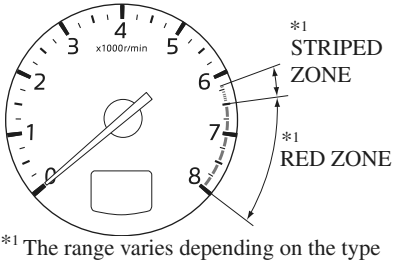
The speedometer indicates the speed of the vehicle.

▼ 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.

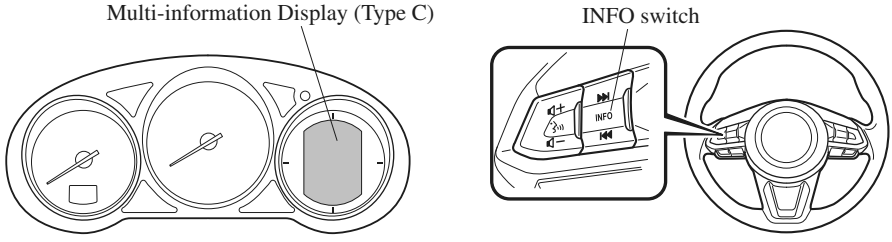


*1 The range varies depending on the type of gauge.

NOTE

When the tachometer needle enters the STRIPED ZONE, this indicates to the driver that the gears should be shifted before entering the RED ZONE.

▼ Multi-information Display (Type C)

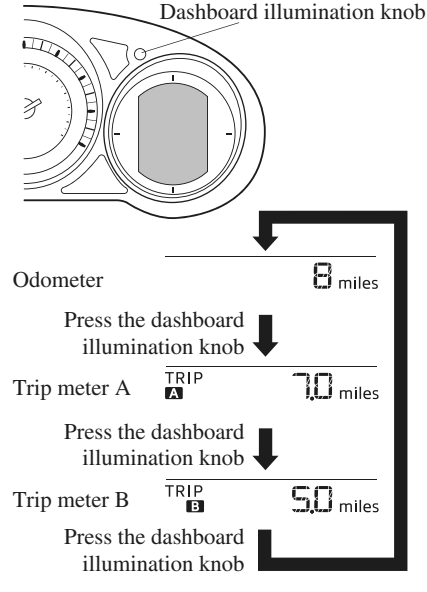


The multi-information display indicates the following information.

- Odometer
- Trip meter
- Engine coolant temperature gauge
- Fuel gauge
- Outside temperature
- Trip Computer
- Cruise Control Display
- Compass Display

▼ Odometer, Trip Meter and Trip Meter Selector

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



Odometer

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

Trip meter

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

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

When trip meter A is selected, pressing the selector again within 1 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 depressing and holding the selector for 1 second or more. Use this meter to measure trip distances and to compute fuel consumption.

NOTE

- *If TRIP A is reset using the trip meter when the function which synchronizes (resets) the fuel economy monitor and the trip meter (TRIP A) is on, the fuel economy data resets in conjunction with TRIP A.*
  Refer to the Information section in the Mazda Connect Owner's Manual.
- *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 9999.9 km (mile).*

▼ Engine Coolant Temperature Gauge

Displays the engine coolant temperature. The white range of the gauge indicates that the engine coolant temperature is low, and the red range of the gauge indicates that the engine coolant temperature is high and overheating.



⚠ CAUTION

If the engine coolant temperature gauge needle (white) flashes, there is a possibility of overheating. Drive slowly to reduce engine load until you can find a safe place to stop the vehicle and wait for the engine to cool down.
Refer to Overheating on page 7-17.

NOTE

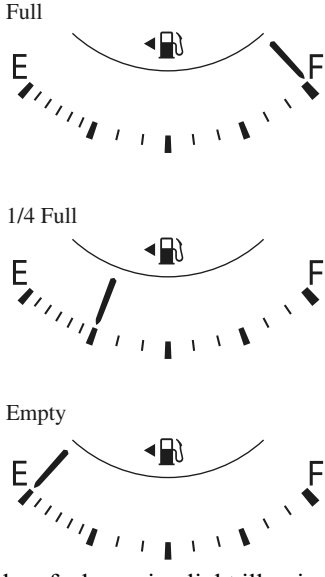
- ***(SKYACTIV-G 2.5T)***

  If the engine coolant temperature is high or the engine is hot, the engine output may be limited.

- *The temperature unit (Centigrade/ Fahrenheit) of the engine coolant gauge display changes in conjunction with the temperature unit of the outside temperature display.*
  Refer to the Settings section in the Mazda Connect Owner's Manual.

▼ Fuel Gauge

The fuel gauge shows approximately how much fuel is remaining in the tank when the ignition is switched ON. We recommend keeping the tank over 1/4 full.



If the low fuel warning light illuminates or the fuel level is very low, refuel as soon as possible.
If inconsistency in engine performance or stalling occurs due to low fuel level conditions, refuel the vehicle as soon as possible and add at least 10 L (2.7 US gal, 2.2 Imp gal) of fuel.
Refer to Taking Action on page 7-31.

NOTE

- *After refueling, it may require some time for the indicator to stabilize. In addition, the indicator may deviate while driving on a slope or curve since the fuel moves in the tank.*
- *The display indicating a quarter or less remaining fuel has more segments to show the remaining fuel level in greater detail.*
- *The direction of the arrow (◂⛽) indicates that the fuel-filler lid is on the left side of the vehicle.*

▼ Dashboard Illumination

(Without auto-light control)
When the lights are turned on with the ignition switched ON, the brightness of the dashboard illumination is dimmed.
(With auto-light control)
When the lights are turned on with the ignition switched ON, the brightness of the dashboard illumination is dimmed. However, when the light sensor detects that the surrounding area is bright such as when the lights are turned on in the daytime, the dashboard illumination does not dim.

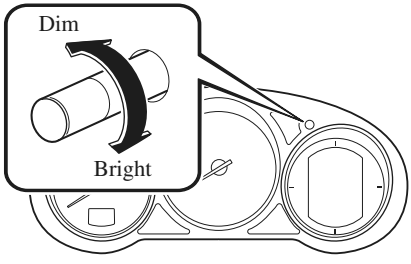
NOTE

- ***(With auto-light control)***
  When the ignition is switched ON in the early evening or at dusk, the dashboard illumination is dimmed for several seconds until the light sensor detects the brightness of the surrounding area, however, the dimming may cancel after the brightness is detected.
- *When the lights are turned on, the lights-on indicator light in the instrument cluster turns on.*

Refer to Headlights on page 4-76.

The brightness of the instrument cluster and dashboard illuminations can be adjusted by rotating the knob.

- The brightness decreases by rotating the knob to the left. A beep sound will be heard when the knob has been rotated to the maximum dim position.
- The brightness increases by rotating the knob to the right.



Function for canceling illumination dimmer

The illumination dimmer can be canceled by rotating the dashboard illumination knob to the right until a beep sound is heard while the instrument cluster is dimmed with the ignition switched ON. If the instrument cluster's visibility is reduced due to glare from surrounding brightness, cancel the illumination dimmer.

NOTE

- *When the illumination dimmer is canceled, the instrument cluster cannot be dimmed even if the lights are turned on.*
- *When the illumination dimmer is canceled, the screen in the center display switches to constant display of the daytime screen.*

▼ Outside Temperature Display

When the ignition is switched ON, the outside temperature is displayed.



NOTE

- *Under the following conditions, the outside temperature display may differ from the actual outside temperature depending on the surroundings and vehicle conditions:*
  - *Significantly cold or hot temperatures.*
  - *Sudden changes in outside temperature.*
  - *The vehicle is parked.*
  - *The vehicle is driven at low speeds.*

Changing the Temperature Unit of the Outside Temperature Display

The outside temperature unit can be switched between Celsius and Fahrenheit. Settings can be changed by operating the center display screen.
Refer to the Settings section in the Mazda Connect Owner's Manual.

NOTE
When the temperature unit indicated in the outside temperature display is changed, the temperature unit indicated in the engine coolant gauge display changes in conjunction with it.

▼ Trip Computer

The following information can be selected by pressing the INFO switch with the ignition switched ON.

- Distance-to-empty mode

- Average fuel economy mode
- Current fuel economy mode
- Compass mode

If you have any problems with your trip computer, consult an Authorized Mazda Dealer.

Distance-to-empty mode

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 and displayed every second.



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 level is very low or the low fuel warning light illuminates.*
- *The display may not change unless you add more than approximately 9 L (2.3 US gal, 1.9 Imp gal) of fuel.*
- *The distance-to-empty is the approximate remaining distance the vehicle can be driven until all the graduation marks in the fuel gauge (indicating the remaining fuel supply) disappear.*
- *If there is no past fuel economy information such as after first purchasing your vehicle or the information is deleted when the battery cables are disconnected, the actual distance-to empty/range may differ from the amount indicated.*

Average fuel economy mode

This mode displays the average fuel economy by calculating the total traveled distance and the total fuel consumption since the vehicle was purchased or the past data was reset. The average fuel economy is calculated and displayed every minute.



To reset the displayed past data, press the INFO switch for 1.5 seconds or longer. After resetting the data, - - - L/100 km (- - - mpg) is displayed for one minute before the fuel economy is recalculated and displayed.

NOTE

If TRIP A is reset using the trip meter when the function which synchronizes (resets) the fuel economy monitor and the trip meter (TRIP A) is on, the displayed past data is reset.

Current fuel economy mode

This mode displays the current fuel economy by calculating the amount of fuel consumption and the distance traveled.

Current fuel economy will be calculated and displayed every 2 seconds.



When you've slowed to about 5 km/h (3 mph), - - - L/100 km (- - - mpg) will be displayed.

Compass mode

The direction the vehicle is moving is displayed in one of eight directions while the vehicle is being driven.



Display	Direction
N	North
S	South
E	East
W	West
NE	Northeast
NW	Northwest
SE	Southeast
SW	Southwest

▼ Cruise Control Set Vehicle Speed Display

The vehicle speed preset using the cruise control is displayed.

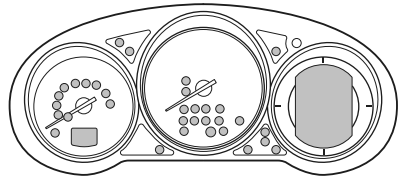


Refer to Cruise Control on page 4-246.

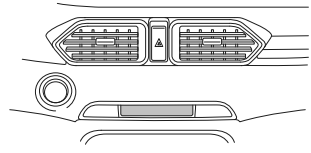
▼ Warning/Indicator Lights

Instrument Cluster varies depending on model and specifications.

Instrument Cluster



Center of Dashboard



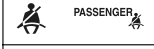
Warning lights will appear in any of the highlighted areas

▼ Warning Indication/Warning Lights

These lights turn on or flash to notify the user of the system operation status or a system malfunction.

Signal	Warning	Page
BRAKE	Brake System Warning Light*1*2	7-22
ABS	ABS Warning Light*1	Electronic Brake Force Distribution System Warning 7-22
		ABS warning 7-25
	Charging System Warning Light*1	7-22
	Engine Oil Warning Light*1	7-22
	Power Steering Malfunction Indicator Light*1	7-22
	Master Warning Light*1	7-25
P	Electric Parking Brake (EPB) Warning Light*1	7-25

Instrument Cluster and Display

Signal	Warning	Page
 (Red)	Brake Pedal Operation Demand Warning Light*1	Flashing 4-103
		Buzzer & Flashing 7-25
	Check Engine Light*1	7-25
AT	Automatic Transaxle Warning Light*1	7-25
	Air Bag/Seat Belt Pretensioner System Warning Light*1	7-25
	Tire Pressure Monitoring System Warning Light*1	Flashing 7-25
		Turns on 7-31
 (Red)	KEY Warning Light*1	Turns on 7-25
		Flashing 7-31
	LED Headlight Warning Light*1	7-25
 (Amber)	*Smart City Brake Support (SCBS) Warning Light*1	7-31
	Low Fuel Warning Light	7-31
	Check Fuel Cap Warning Light*1	7-31
	Engine Oil Level Warning Light*1	7-31
	Seat Belt Warning Light (Front seat)	7-31
 (Red)	Seat Belt Warning Light (Rear seat)	7-31
	*Low Washer Fluid Level Warning Light	7-31
	Door-Ajar Warning Light	7-31

*1 The light turns on when the ignition is switched on for an operation check, and turns off a few seconds later or when the engine is started. If the light does not turn on or remains turned on, have the vehicle inspected at an Authorized Mazda Dealer.

 *Some models.

*2 The light turns on continuously when the parking brake is applied.

▼ Indication/Indicator Lights

These lights turn on or flash to notify the user of the system operation status or a system malfunction.

Signal	Indicator	Page
REAR (Green)	Seat Belt Indicator Light (Rear seat)	2-30
PASS AIRBAG OFF	*Front Passenger Air Bag Deactivation Indicator Light*1	2-72
(Green)	KEY Indicator Light	4-5
	Security Indicator Light*1	3-43
	Wrench Indication/Indicator Light*1	4-62
	Shift Position Indication	4-68
	Lights-On Indication/Indicator Light	4-76
	Headlight High-Beam Indicator Light	Headlight High-Low Beam 4-80 Flashing the Headlights 4-80
	Turn Signal/Hazard Warning Indicator Lights	Turn and Lane-Change Signals 4-82 Hazard Warning Flasher 4-90
(Green)	Brake Pedal Operation demand Indicator Light	4-100
HOLD	AUTOHOLD Active Indicator Light*1	4-105

Signal	Indicator	Page
	TCS/DSC Indicator Light*1	Traction Control System (TCS) 4-110 Dynamic Stability Control (DSC) 4-112 Turns on 7-25
TCS OFF	*TCS OFF Indicator Light *1	4-110
SPORT	Select Mode Indication	4-115
	*Blind Spot Monitoring (BSM) OFF Indicator Light*1	Malfunction 7-25 Except malfunction 4-132
 (Red)	*Smart City Brake Support (SCBS) Indicator Light	4-198
	*Smart City Brake Support (SCBS) OFF Indicator Light*1	4-198
 (White)	Cruise Main Indication	4-247
 (Green)	Cruise Set Indication	4-247

*1 The light turns on when the ignition is switched on for an operation check, and turns off a few seconds later or when the engine is started. If the light does not turn on or remains turned on, have the vehicle inspected at an Authorized Mazda Dealer.

▼ Wrench Indicator Light



When the ignition is switched ON, the wrench indicator light turns on and then turns off after a few seconds.

The wrench indicator light turns on under the following conditions:

- When the preset maintenance period has arrived.

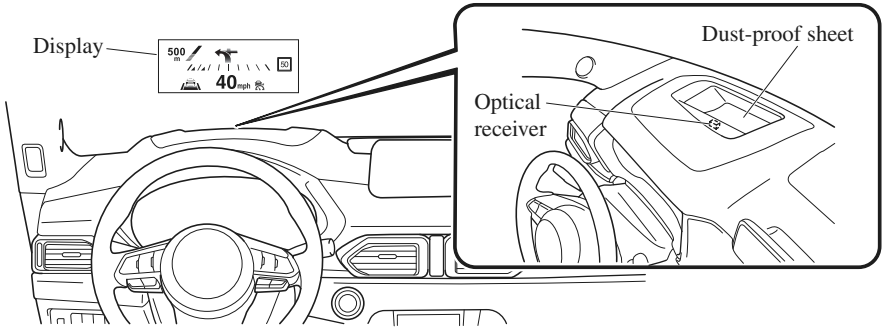
・When it’s time to replace the engine oil.

Refer to the Information section in the Mazda Connect Owner's Manual.

NOTE

- *The wrench indicator light turns on earlier than the preset period depending on vehicle usage conditions.*
- *Whenever the engine oil is replaced, a reset of the vehicle engine control unit is necessary.*
  Refer to the Information section in the Mazda Connect Owner's Manual.

Active Driving Display*



⚠ WARNING

Always adjust the display brightness and position with the vehicle stopped:
Adjusting the display brightness and position while driving the vehicle is dangerous as doing so could distract your attention from the road ahead and lead to an accident.

⚠ CAUTION

- *Do not place beverages near the active driving display. If water or other liquids are splashed on the active driving display, it could cause damage.*
- *Do not place objects above the active driving display or apply stickers to the dust-proof sheet/optical receiver as they will cause interference.*
- *A sensor is integrated to control the display's luminosity. If the optical receiver is covered, the display's luminosity will lower making the display difficult to view.*
- *Do not allow intense light to hit the optical receiver. Otherwise, it could cause damage.*

NOTE

- *Wearing polarized sunglasses will reduce the visibility of the active driving display due to the characteristics of the display.*
- *If the lead-acid battery has been removed and re-installed or the lead-acid battery voltage is low, the adjusted position may deviate.*
- *The display may be difficult to view or temporarily affected by weather conditions such as rain, snow, light, and temperature.*
- *If the audio system is removed, the active driving display cannot be operated.*

The active driving display indicates the following information:

 *Some models.

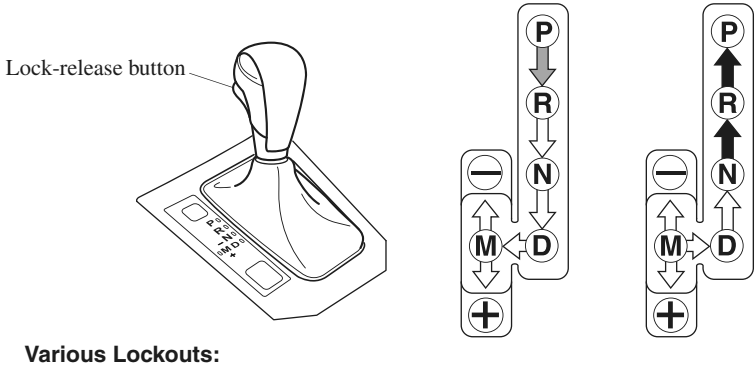
- Blind Spot Monitoring (BSM) Operation Conditions and Warnings
  Refer to Blind Spot Monitoring (BSM) on page 4-128.
- Traffic Sign Recognition System (TSR) traffic signs and Warnings
  Refer to Traffic Sign Recognition System (TSR) on page 4-133.
- Mazda Radar Cruise Control with Stop & Go function (MRCC with Stop & Go function) Operation Conditions and Warnings
  Refer to Mazda Radar Cruise Control with Stop & Go function (MRCC with Stop & Go function) on page 4-149.
- Cruising & Traffic Support (CTS) Operation Conditions and Warnings
  Refer to Cruising & Traffic Support (CTS) on page 4-164.
- Lane-keep Assist System (LAS) & Lane Departure Warning System (LDWS) Operation Conditions and Warnings
  Refer to Lane-keep Assist System (LAS) & Lane Departure Warning System (LDWS) on page 4-180.
- Advanced Smart City Brake Support (Advanced SCBS) Warnings
  Refer to Advanced Smart City Brake Support (Advanced SCBS) on page 4-193.
- Smart City Brake Support [Forward] (SCBS F) Warnings
  Refer to Smart City Brake Support [Forward] (SCBS F) on page 4-196.
- Smart Brake Support (SBS) Operation Conditions and Warnings
  Refer to Smart Brake Support (SBS) on page 4-204.
- Cruise Control Operation Conditions
  Refer to Cruise Control on page 4-246.
- Navigation Guidance (vehicles with navigation system)
- Speed limit indicator (vehicles with navigation system)
- Vehicle Speed

The active driving display settings can be changed or adjusted.
Refer to the Mazda Connect Owner's Manual or consult an Authorized Mazda Dealer.

NOTE

- *The desired driving position (display position, brightness level, display information) can be called up after programming the position.*
  Refer to Driving Position Memory on page 2-11.

Automatic Transaxle Controls



Various Lockouts:

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

Indicates the selector lever can be shifted freely into any position.

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

NOTE

The Sport AT has an option that is not included in the traditional automatic transaxle that gives 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 4-69).

Shift-Lock System

The shift-lock system prevents shifting out of P unless the brake pedal is depressed.

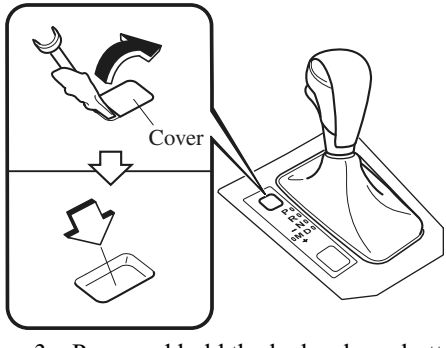
To shift from P:
1. Depress and hold the brake pedal.
2. Start the engine.
3. Press and hold the lock-release button.
4. Move the selector lever.

NOTE

- *When the ignition is switched to ACC or the ignition is switched off, the selector lever cannot be shifted from P position.*
- *The ignition cannot be switched to OFF if the selector lever is not in P position.*

▼ Shift-Lock Override

If the selector lever will not move from P using the proper shift procedure, continue to hold down the brake pedal.
1. Remove the shift-lock override cover using a cloth-wrapped flat head screwdriver.
2. Insert a screwdriver and push it down.



3. Press and hold the lock-release button.
4. Move the selector lever.

Take the vehicle to an Authorized Mazda Dealer to have the system checked.

Transaxle Ranges

- The shift position indication in the instrument cluster illuminates. Refer to Indication/Indicator Lights on page 4-32, 4-48, 4-61.
- The selector lever must be in P or N position to operate the starter.

P (Park)

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

⚠ WARNING

Always set the selector lever to P position and set the parking brake:
Only setting the selector 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 3-48).

NOTE
(With parking sensor system)
When the selector lever is shifted to the R position with the ignition switched ON, the parking sensor system is activated and a beep sound is heard.
Refer to Parking Sensor System on page 4-263.

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 selector lever from N position 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 6-gear sequence.

M (Manual)

M is the manual shift mode position. Gears can be shifted up or down by operating the selector lever. Refer to Manual Shift Mode on page 4-69.

▼ Shift Position Indication

Instrument Cluster (Type A)



Instrument Cluster (Type B/C)



The selector position is indicated when the ignition is switched ON.

Gear position indication

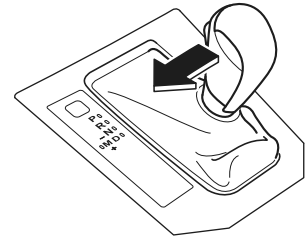
In manual shift mode, the “M” of the shift position indication illuminates and the numeral for the selected gear is displayed.

▼ Active Adaptive Shift (AAS)

Active Adaptive Shift (AAS) automatically controls the transaxle shift points to best suit the road conditions and driver input. This improves driving feel. The transaxle may switch to AAS mode when driving up and down slopes, cornering, driving at high elevations, or depressing the accelerator pedal quickly while the selector lever is in the D position. Depending on the road and driving conditions/vehicle operations, gear shifting could be delayed or not occur, however, this does not indicate a problem because the AAS mode will maintain the optimum gear position.

Manual Shift Mode

The manual shift mode gives you the feel of driving a manual transaxle vehicle by allowing you to operate the selector lever manually. This 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.

NOTE

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

▼ Indications

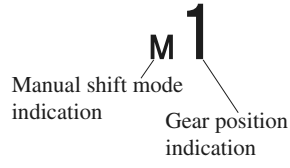
Manual shift mode indication

In manual shift mode, the “M” of the shift position indication in the instrument panel illuminates.

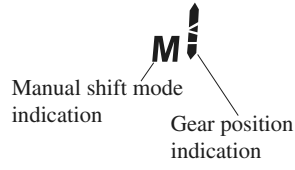
Gear position indication

The numeral for the selected gear illuminates.

Instrument Cluster (Type A)



Instrument Cluster (Type B/C)



NOTE

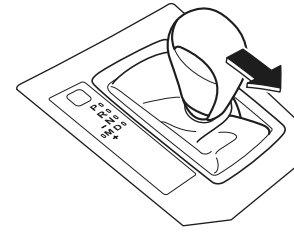
- *If the gears cannot be shifted down when driving at higher speeds, the gear position indication will flash twice to signal that the gears cannot be shifted down (to protect the transaxle).*
- *If the automatic transaxle fluid (ATF) temperature becomes too high, there is the possibility that the transaxle will switch to automatic shift mode, canceling manual shift mode and turning off the gear position indication illumination. This is a normal function to protect the AT. After the ATF temperature has decreased, the gear position indication illumination turns back on and driving in manual shift mode is restored.*

▼ Manually Shifting Up

You can shift gears up by operating the selector lever or the steering shift switches*.
M1 → M2 → M3 → M4 → M5 → M6

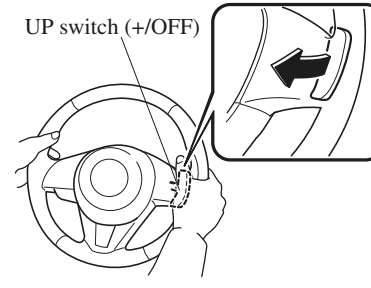
Using selector lever

To shift up to a higher gear, tap the selector lever back + once.



Using steering shift switch*

To shift up to a higher gear with the steering shift switches, pull the UP switch (**+/OFF**) toward you once with your fingers.



 *Some models.

⚠ WARNING

Keep your hands on the steering wheel rim when using fingers on the steering shift switches:
Putting your hands inside the rim of the steering wheel when using the steering shift switches is dangerous. If the driver's air bag were to deploy in a collision, your hands could be impacted causing injury.

NOTE

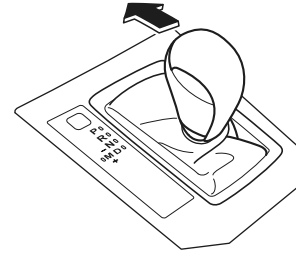
- *When driving slowly, the gears may not shift up.*
- *Do not drive the vehicle with the tachometer needle in the RED ZONE while in manual shift mode. In addition, manual shift mode switches to automatic shift mode while the accelerator pedal is completely depressed.*
  This function is canceled while the TCS is turned off or the Off-Road Traction Assist is turned on. However, if the vehicle is continuously driven at a high rpm, the gears may automatically shift up to protect the engine.
- *The steering shift switch can be used temporarily even if the selector lever is in the D position while driving. In addition, it returns to automatic shift mode when the UP switch (+/OFF) is pulled rearward for a sufficient amount of time.*

▼ Manually Shifting Down

You can shift gears down by operating the selector lever or the steering shift switches*.
M6 → M5 → M4 → M3 → M2→ M1

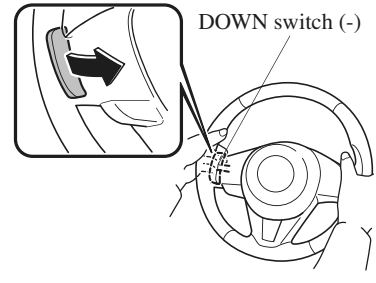
Using selector lever

To shift down to a lower gear, tap the selector lever forward − once.



Using steering shift switch*

To shift down to a lower gear with the steering shift switches, pull the DOWN switch − toward you once with your fingers.



⚠ 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.

Keep your hands on the steering wheel rim when using fingers on the steering shift switches:
Putting your hands inside the rim of the steering wheel when using the steering shift switches is dangerous. If the driver's air bag were to deploy in a collision, your hands could be impacted causing injury.

NOTE

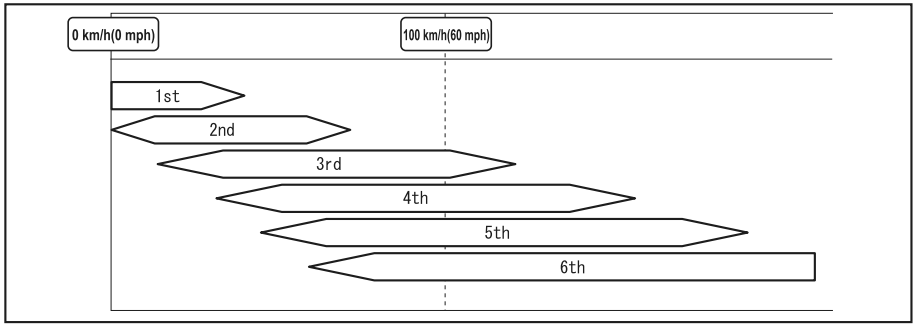
- *When driving at high speeds, the gear may not shift down.*
- *During deceleration, the gear may automatically shift down depending on vehicle speed.*
- *When depressing the accelerator fully, the transaxle will shift to a lower gear, depending on vehicle speed. However, the gears do not kickdown while the TCS is turned off or the Off-Road Traction Assist is operating.*

▼ Second Gear Fixed Mode

When the selector lever is moved back + while the vehicle speed is about 10 km/h (6.2 mph) or less, the transaxle is set in the second gear fixed mode. The gear is fixed in second while in this mode for easier acceleration from a stop and driving on slippery roads such as snow-covered roads.
If the selector lever is moved back + or forward − while in the second gear fixed mode, the mode will be canceled.

▼ Shift Gear (Shifting) Speed Limit

For each gear position while in the manual mode, the speed limit is set as follows: When the selector lever is operated within the range of the speed limit, the gear is shifted.



Shift up

The gear does not shift up while the vehicle speed is lower than the speed limit.

Shift down

The gear does not shift down while the vehicle speed exceeds the speed limit.
If the vehicle speed exceeds the speed limit and the gear does not shift down, the gear position indication flashes 2 times to notify the driver that the gear cannot be shifted.

Kickdown

When the accelerator pedal is depressed fully while driving, the gear shifts down.
However, the gears do not kickdown while the TCS is turned off or the Off-Road Traction Assist is operating.

NOTE
The gear also shifts down using kickdown while in the second gear fixed mode.

Auto-shift down

The gear shifts down automatically depending on the vehicle speed during deceleration.

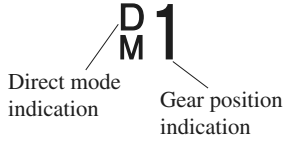
NOTE
If the vehicle comes to a stop while in the second gear fixed mode, the gear remains in second.

Direct Mode*

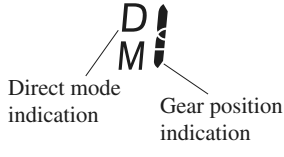
Direct mode can be used for temporarily switching gears by operating the steering shift switch while the vehicle is being driven with the selector lever in the D position.
While in direct mode, the D and M indication illuminate and the gear position in use is illuminated.
Direct mode is canceled (released) under the following conditions.

- The UP switch (**+/OFF**) is pulled rearward for a certain amount of time or longer.
- The vehicle is driven for a certain amount of time or longer (time differs depending on the driving conditions while operating).
- The vehicle is stopped or moving at a slow speed.

Instrument Cluster (Type A)



Instrument Cluster (Type B/C)



NOTE
Shifting up and down while in direct mode may not be possible depending on the vehicle speed. In addition, because direct mode is canceled (released) depending on the rate of acceleration or if the accelerator is fully depressed, use of the manual shift mode is recommended if you need to drive the vehicle in a particular gear for long periods.

 *Some models.

Driving Tips

⚠ WARNING

Do not let the vehicle move in a direction opposite to the direction selected by the selector lever:
Do not let the vehicle move backward with the selector lever in a forward position, or do not let the vehicle move forward with the selector lever in the reverse position. Otherwise, the engine may 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.

NOTE
The accelerator pedal may initially feel heavy as it is being depressed, then feel lighter as it is depressed further. This change in pedal force aids the engine control system in determining how much the accelerator pedal has been depressed for performing kickdown, and functions to control whether or not kickdown should be performed.

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.

Lighting Control

▼ Headlights

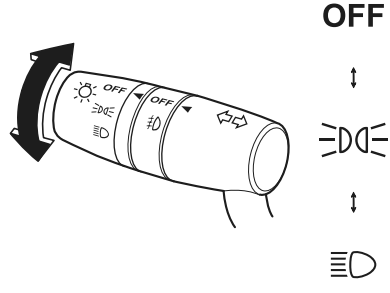
Turn the headlight switch to turn the headlights and other exterior lights on or off.
When the lights are turned on, the lights-on indicator light in the instrument cluster turns on.



NOTE

- *If the light switch is left on, the lights will automatically switch off approximately 30 seconds after switching the ignition off.*
  The time setting can be changed.
  Refer to the Settings section in the Mazda Connect Owner's Manual or consult an Authorized Mazda Dealer.
- *To prevent discharging the battery, do not leave the lights on while the engine is off unless safety requires them.*

Without auto-light control

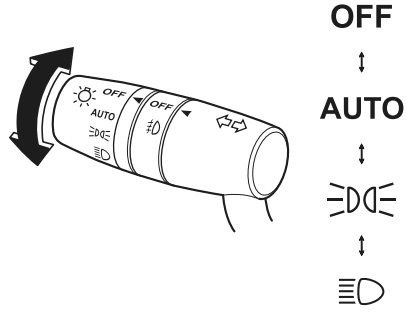


Switch Position	OFF					
Ignition Position	ON	ACC or OFF	ON	ACC or OFF	ON	ACC or OFF
Headlights	Off	Off	Off	Off	On	On*2
Daytime running lights	On*1	Off	On*1	Off	Off	Off
Taillights Parking lights License plate lights Side-marker lights	Off	Off	On	On*2	On	On*2

*1 The lights are turned on while the vehicle is driven.

*2 The lights are turned on for the specified period by the auto headlight off function.

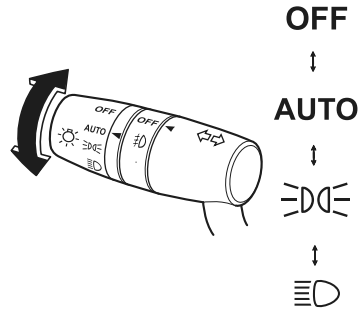
With auto-light control
(Except Canada)



Switch Position	OFF		AUTO					
Ignition Position	ON	ACC or OFF	ON	ACC or OFF	ON	ACC or OFF	ON	ACC or OFF
Headlights	Off	Off	Auto*2	Auto*4	Off	Off	On	On*4
Daytime running lights	On*1	Off	On*3	Off	On*1	Off	Off	Off
Taillights Parking lights License plate lights Side-marker lights	Off	Off	Auto*2	Auto*4	On	On*4	On	On*4

*1 The lights are turned on while the vehicle is driven.
*2 The lights are turned on by the auto light function.
*3 The lights are turned on while the vehicle is driven, and turned off when the headlights are turned on by the auto light function.
*4 The lights are turned on for the specified period by the auto headlight off function.

(Canada)



Ignition Position	ACC or OFF				ON			
Switch Position	OFF*1	AUTO			OFF*1	AUTO		
Headlights	Off	Off	Off	Off	Auto*2*4		Auto*3*4	On
Daytime running lights	Off	Off	Off	Off				Off
Taillights Parking lights License plate lights Side-marker lights	Off	On*5	On	On*5				On

*1 The light switch returns to the AUTO position automatically.

*2 During the daytime, the daytime running lights turn on automatically. During the nighttime, the headlights, parking lights, taillights, and the license plate lights turn on automatically.

*3 During the daytime, the daytime running lights, parking lights, taillights, and the license plate lights turn on automatically. During the nighttime, the headlights, parking lights, taillights, and the license plate lights turn on automatically.

*4 When the light switch is switched to the OFF position while the vehicle is stopped, all of the lights that are turned on turn off. When the light switch is switched from a position other than to the position while the vehicle is stopped, the daytime running lights or the headlights turn off. When starting to drive the vehicle, the lights that are turned off turn on again.

*5 The lights are turned on continuously if the ignition is switched from ON to any other position with the lights turned on. The lights are turned off when the driver's door is opened or 30 seconds have elapsed since the lights turned on.

Auto-light control*

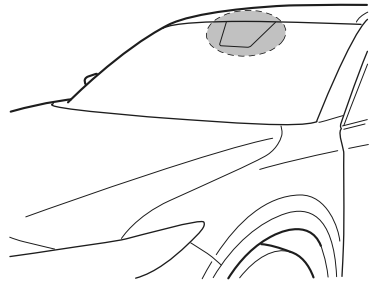
(Except Canada)

When the headlight switch is in the AUTO position and the ignition is switched ON, the light sensor senses the surrounding lightness or darkness and automatically turns the headlights and other exterior lights on or off.

(Canada)
When the headlight switch is in a position other than ≣D and the ignition is switched ON, the light sensor senses the surrounding lightness or darkness and automatically turns the headlights and other exterior lights on or off.

⚠ CAUTION

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



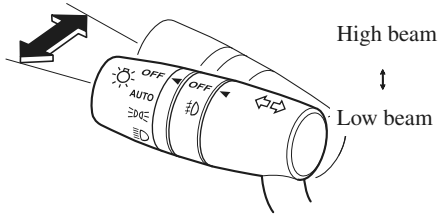
- *The light sensor also works as a rain sensor for the auto-wiper control. Keep hands and scrapers clear of the windshield when the wiper lever is in the AUTO position and the ignition is switched ON as fingers could be pinched or the wipers and wiper blades could be damaged when the wipers activate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

NOTE

- *The headlights and other exterior lights may not turn off immediately even if the surrounding area becomes well-lit because the light sensor determines that it is night time 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 lights turn off if the light switch is turned to the OFF position.
- *If the headlight switch and the windshield wiper switch are in AUTO, and the wipers are operated at low or high speed by the auto wiper control for several seconds, bad weather conditions are determined and the headlights may be turned on.*
- *The sensitivity of the auto-light control may be changed.*
  Refer to the Settings section in the Mazda Connect Owner's Manual or consult an Authorized Mazda Dealer.

▼ Headlight High-Low Beam

The headlights switch between high and low beams by moving the lever forward or backward.

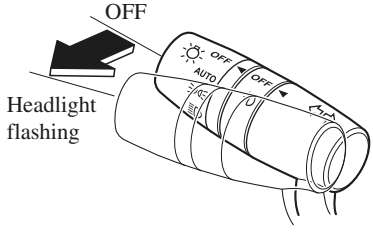


When the headlight high-beams are on, the headlight high-beam indicator light is turned on.



▼ Flashing the Headlights

Can be used when the ignition is switched ON.
To flash the headlights, pull the lever fully towards you (the headlight switch does not need to be on).



The headlight high-beam indicator light in the instrument cluster illuminates simultaneously. The lever will return to the normal position when released.

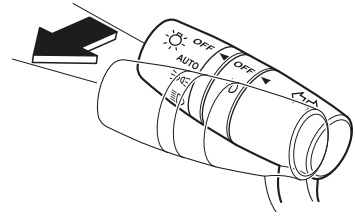


▼ Coming Home Light

The coming home light turns on the headlights (low beams) when the lever is operated.

To turn on the lights

When the lever is pulled with the ignition switched to ACC or OFF, the low beam headlights turn on.
The headlights turn off after a certain period of time has elapsed after all of the doors are closed.



NOTE

- *The time until the headlights turn off after all of the doors are closed can be changed.*
  Refer to the Mazda Connect Owner's Manual or consult an Authorized Mazda Dealer.
- *If no operations are done for 3 minutes after the lever is pulled, the headlights turn off.*
- *The headlights turn off if the lever is pulled again while the headlights are illuminated.*

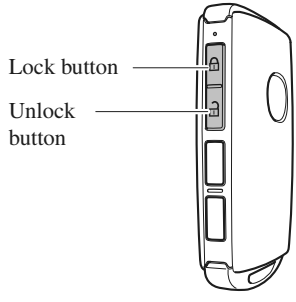
▼ Leaving Home Light

The leaving home light turns on the lights when the transmitter unlock button is pressed while away from the vehicle.
The following lights turn on when the leaving home light is operated.
Low beams, Parking lights, Taillights, License plate lights.

To turn on the lights

When the ignition switch and the headlight switch are in the following conditions, the headlights will illuminate when the transmitter unlock button is pressed and the vehicle receives the transmitter signal. The headlights turn off after a certain period of time has elapsed (30 seconds).

- Ignition switch: off
- Headlight switch: AUTO, ≡D◐≡, or ≡D



NOTE

- *Operation of the leaving home light can be turned on or off.*
  Refer to the Mazda Connect Owner's Manual or consult an Authorized Mazda Dealer.
- *When the transmitter lock button is pressed and the vehicle receives the transmitter signal, the headlights turn off.*
- *When the headlight switch is turned to the OFF position, the headlights turn off.*

▼ Headlight Leveling

The number of passengers and weight of cargo in the luggage compartment change the angle of the headlights.

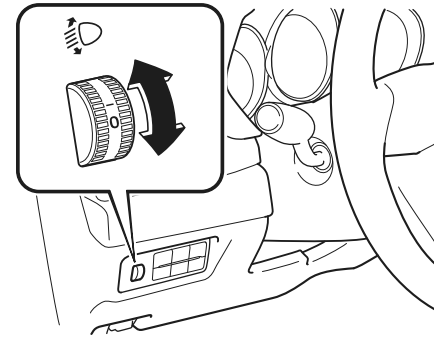
Auto type

The angle of the headlights will be automatically adjusted when turning on the headlights.

A system malfunction or operation conditions are indicated by a warning. Refer to Contact Mazda Dealer and Have Vehicle Inspected on page 7-25.

Manual type

The headlight leveling switch is used to adjust the angle of the headlights manually.



Select the proper headlight angle from the following chart.

Front seat		Rear seat	Load	Switch Position
Driver	Passenger			
×	—	—	—	0
×	×	—	—	0
×	×	×	—	1
×	×	×	×	1
×	—	—	×	1.5

×: Yes
—: No

▼ Daytime Running Lights

Some countries require moving vehicles to have their lights on (daytime running lights) during the daytime.

Except Canada

The daytime running lights turn on when the vehicle is driven and turn off when the parking brake is operated or the selector lever is shifted to the P position.

NOTE
The daytime running lights can be deactivated.
Refer to the Settings section in the Mazda Connect Owner's Manual or consult an Authorized Mazda Dealer.

Canada

NOTE
When the light switch is switched to the ≣D position, the daytime running lights turn off. If you want to drive the vehicle with the daytime running lights turned on, switch the light switch to a position other than ≣D.

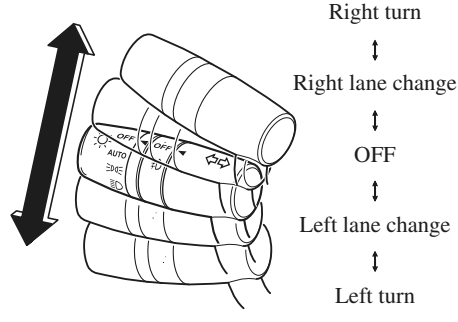
Turn and Lane-Change Signals

The ignition must be switched ON to use the turn and lane-change signals.

▼ Turn Signals

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.



The turn signal indicators in the instrument cluster flash according to the operation of the turn signal lever to show which signal is working.



NOTE

- *There may be a problem with the turn signal lights if they do not flash but remain turned on, or they flash abnormally. Have your vehicle inspected by an Authorized Mazda Dealer.*
- *A personalized function is available to change the turn indicator sound volume.*

Refer to the Mazda Connect Owner's Manual or consult an Authorized Mazda Dealer.

▼ Lane-Change Signals

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

▼ Three-Flash Turn Signal

After releasing the turn signal lever, the turn signal indicator flashes 3 times. The operation can be canceled by moving the lever in the direction opposite to which it was operated.

NOTE
The three-flash turn signal function can be switched to operable/inoperable using the personalization function.
Refer to the Mazda Connect Owner's Manual or consult an Authorized Mazda Dealer.

Windshield Wipers and Washer

The ignition must be switched ON to use the wipers.

⚠ 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.

⚠ CAUTION

- *When the wipers are not used during freezing temperatures or for a long time, the wiper rubber may adhere to the glass. If the wipers are operated while adhered to the glass, it could damage the wiper rubber and motor.*
- *If the wipers are operated while the glass is dry, the glass could be scratched and the wiper rubber damaged. When the glass is dry, spray washer fluid before operating the wipers.*

➢ *If the amount of washer fluid spray is insufficient, do not use the washer switch. If the washer switch continues to be operated with no washer fluid being sprayed, it could lead to pump damage.*

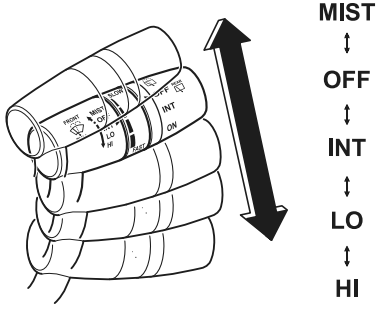
NOTE

If the windshield wipers are operated under cold weather conditions or during snowfall, they could stop due to accumulated snow on the windshield. If the windshield wipers stop due to accumulated snow on the windshield, park the vehicle in a safe place, turn the wiper switch off, and then remove the accumulated snow. If the wiper switch is turned to another position other than OFF, the wipers will operate. If the wipers do not operate even though the wiper switch is turned to a position other than OFF, consult an Authorized Mazda Dealer as soon as possible.

▼ Windshield Wipers

Turn the wipers on by pressing the lever up or down.

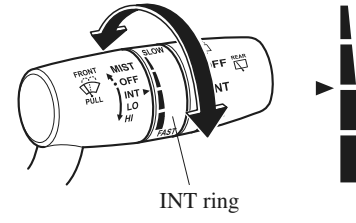
With intermittent wiper



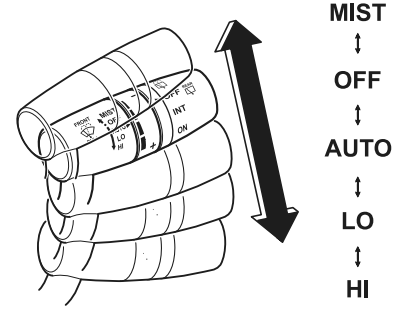
Switch Position	Wiper operation
MIST	Operation while pulling up lever
OFF	Stop
INT	Intermittent
LO	Low speed
HI	High speed

Variable-speed intermittent wipers

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



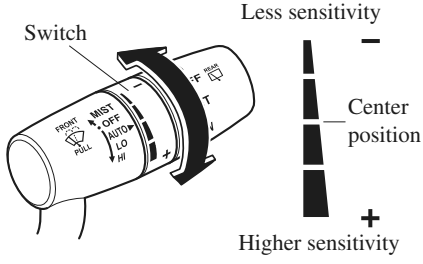
With auto-wiper control



Switch Position	Wiper operation
MIST	Operation while pulling up lever
OFF	Stop
AUTO	Auto control
LO	Low speed
HI	High speed

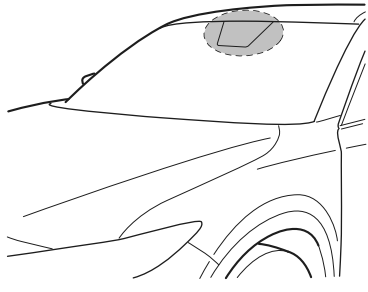
Auto-wiper control*

When the wiper lever is in the AUTO position, the rain sensor senses the amount of rainfall on the windshield and turns the wipers 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), rotate the switch upward for higher sensitivity (faster response) or rotate it downward 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 ignition is switched ON and the wiper lever is in the AUTO position, the windshield wipers may operate automatically in the following cases:*
  - *The area of the windshield above the rain sensor is touched or wiped with a cloth.*
  - *The windshield or the rain sensor area in the cabin is hit.*

  When the ignition is switched ON and the wiper lever is in the AUTO position, do not touch the windshield or the windshield wipers Otherwise, the windshield wipers will operate automatically which could catch your fingers or damage the windshield wipers. When removing ice or snow, or cleaning the windshield, always make sure the wiper lever is in the OFF position.

NOTE

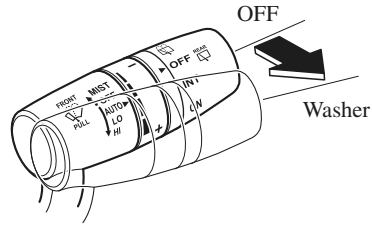
- *Switching the auto-wiper lever from the OFF to the AUTO position while driving activates the windshield wipers once, after which they operate according to the rainfall amount.*
- *The auto-wiper control may not operate when the rain sensor temperature is about −10 °C (14 °F) or lower, or about 85 °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 the auto-wiper control may not operate properly.*

*Some models.

- *If dirt or foreign matter (such as 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, set the wiper lever to the low speed position or high speed position for manual operation, or remove the ice, dirt or foreign matter by hand to restore the auto-wiper operation.*
- *If the auto-wiper lever is left in the AUTO position, the wipers could operate automatically from the effect of strong light sources, electromagnetic waves, or infrared light because the rain sensor uses an optical sensor. It is recommended that the auto-wiper lever be switched to the OFF position other than when driving the vehicle under rainy conditions.*
- ***(With auto-wiper control (Except Canada))***
  If the headlight switch and the windshield wiper switch are in AUTO, and the wipers are operated at low or high speed by the auto wiper control for several seconds, bad weather conditions are determined and the headlights may be turned on.
- *The auto-wiper control functions can be turned off. Refer to the Settings section in the Mazda Connect Owner's Manual or consult an Authorized Mazda Dealer.*

▼ Windshield Washer

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



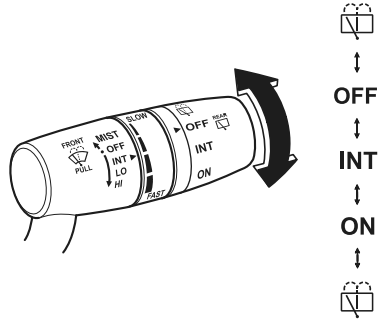
NOTE
If the windshield washer is turned on when the windshield wipers are not operating, the windshield wipers operate a few times.

If the washer does not work, inspect the fluid level (page 6-24). If the fluid level is normal, consult an Authorized Mazda Dealer.

Rear Window Wiper and Washer

The ignition must be switched ON to use the wiper.

▼ Rear Window Wiper



Turn the wiper on by turning the rear wiper/washer switch.

Switch Position	Wiper operation
OFF	Stop
INT	Intermittent
ON	Normal

▼ Rear Window Washer

To spray washer fluid, turn the rear wiper/washer switch to either of the position. After the switch is released, the washer will stop.
If the washer does not work, inspect the fluid level (page 6-24). If the fluid level is normal and the washer still does not work, consult an Authorized Mazda Dealer.

Rear Window Defogger

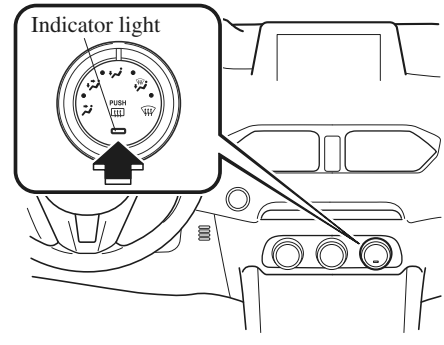
The rear window defogger clears fog from the rear window.

The ignition must be switched ON to use the defogger.

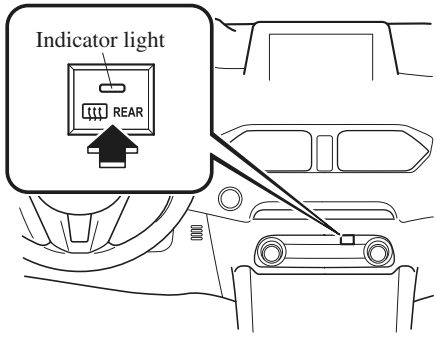
Press the switch to turn on the rear window defogger. The rear window defogger operates for about 15 minutes and then turns off automatically.
The indicator light illuminates when the defogger is operating.

To turn off the rear window defogger before the 15 minutes has elapsed, press the switch again.

Manual Climate Control System



Fully Automatic Climate Control System



⚠ CAUTION

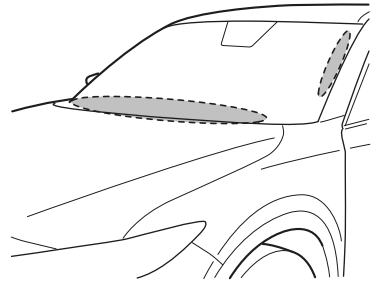
➢ *Do not use sharp instruments or window cleaners with abrasives to clean the inside of the rear window surface. They may damage the defogger grid inside the window.*

NOTE

- *This defogger is not designed for melting snow. If there is an accumulation of snow on the rear window, remove it before using the defogger.*
- *The rear window defogger setting can be changed. After changing the setting, the rear window defogger stops automatically after 15 minutes have elapsed and when the ambient temperature is high. When the ambient temperature is low, it continues to operate until the switch is pressed again.*
  Refer to the Mazda Connect Owner's Manual or consult an Authorized Mazda Dealer.

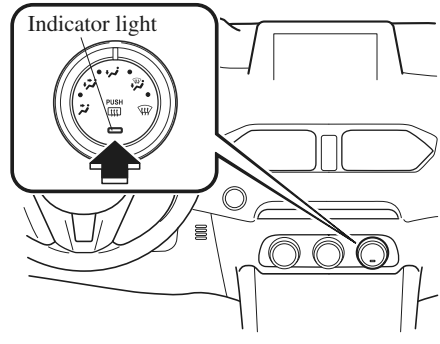
▼ Windshield Wiper De-icer*

The thermal filaments at the following positions heat up and facilitate the removal of snow accumulated on the windshield.



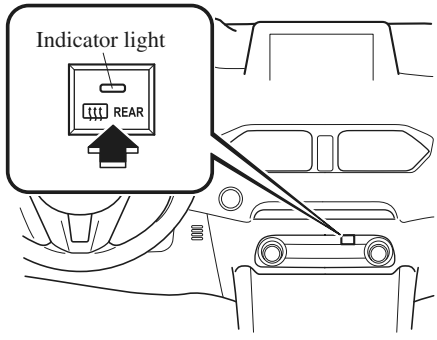
The windshield wiper de-icer operates in conjunction with the rear window defogger.
To turn on the windshield wiper de-icer, switch the ignition ON and press the rear window defogger switch (page 4-87).

Manual Climate Control System



*Some models.

Fully Automatic Climate Control System

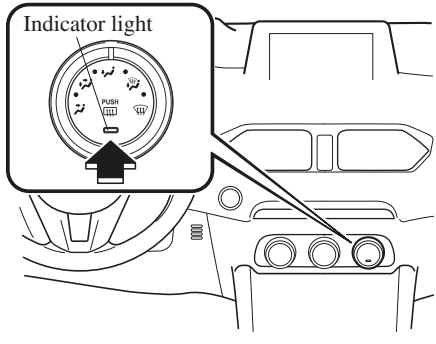


▼ Mirror Defogger*

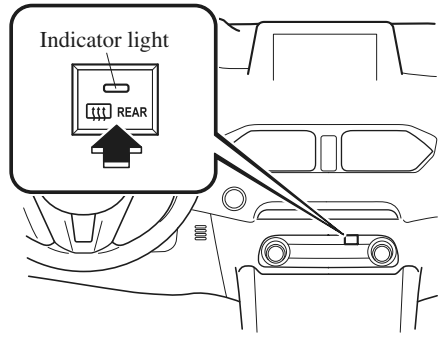
The mirror defoggers defrost the outside mirrors.

The mirror defoggers operate in conjunction with the rear window defogger.
To turn on the mirror defoggers, switch the ignition ON and press the rear window defogger switch (page 4-87).

Manual Climate Control System



Fully Automatic Climate Control System



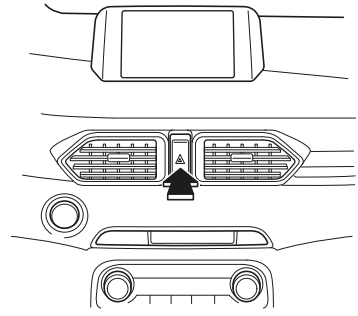
*Some models.

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. The hazard warning indicator lights in the instrument cluster flash simultaneously.

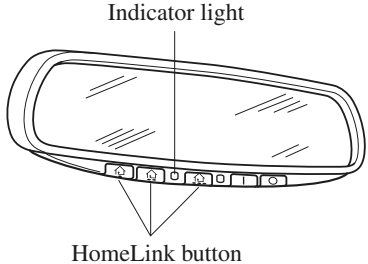
NOTE

- *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 (Type A)*

NOTE
HomeLink and HomeLink house icon are registered trademarks of Gentex Corporation.

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 an 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.

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. 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. Disconnect the power to the garage door opener or gate programmed to the hand-held transmitter.
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 3 has been completed.**

   NOTE
   Some gate operators and garage door openers may require you to replace this Programming Step 2 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. Connect the power to the garage door opener or gate programmed to the hand-held transmitter.
6. Firmly press and hold the programmed HomeLink button for five seconds, and then release it. Perform this operation two times to activate the door or gate. If the door or gate does not activate, 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 1***

   If the indicator light blinks **rapidly for two seconds and then turns to a constant light, continue with "Programming" steps 7—9** to complete the programming of a rolling code equipped device (most commonly a garage door opener).
7. 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.

8. Firmly press and release the “learn” or “smart” button. (The name and color of the button may vary by manufacturer.)

   NOTE
   Complete the programming within 30 seconds.
9. 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 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.

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 1.

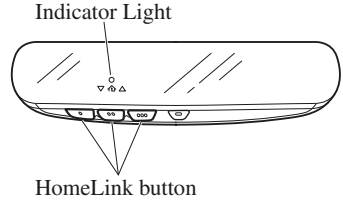
▼ Erasing Programmed HomeLink Buttons

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

HomeLink Wireless Control System (Type B)*

NOTE
HomeLink and HomeLink house are registered trademarks of Gentex Corporation.

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 www.homelink.com*** *or* ***www.youtube.com/HomeLinkGentex*** *or an Authorized Mazda Dealer.*

 *Some models.

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.

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

▼ Pre-programming the HomeLink System

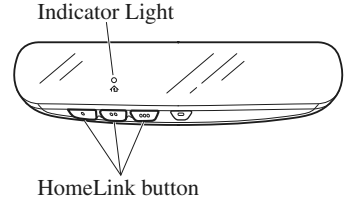
NOTE
It is recommended that a new battery be placed in the hand-held transmitter of the device being programmed to HomeLink for quicker training and accurate transmission of the radio-frequency signal.

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

▼ Programming the HomeLink System

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 release the HomeLink button you would like to program. The indicator light flashes slowly in amber when the button is pressed.



2. Hold the hand-held transmitter 2.5 to 7.5 cm (1 to 3 in) away from the HomeLink button you would like to program while keeping the indicator light in view.

   NOTE
   Depending on the hand-held transmitter, it may be easier to do the programming by holding it 15 to 20 cm (6 to 7.8 in) away from the HomeLink button.
3. Press the hand-held transmitter button continuously until the indicator light changes from amber (flashing) to green (on/flashing).

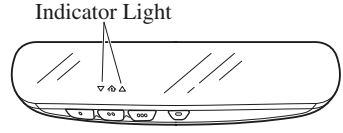
   NOTE
   Some gate operators and garage door openers may require you to replace this Programming Step 3 with procedures noted in the "Gate Operator/Canadian Programming" section.
4. Press the HomeLink button again to check if the programming has been completed.

   - If the indicator light remains on in green, the programming is complete and the device becomes operational.

- If the indicator light flashes rapidly in green, firmly press and hold the Homelink button and release it after two seconds have passed. Repeat this process up to three times to complete the programming. The device becomes operational and programming is complete. If the device does not operate, go to the next step.

5. 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.
6. Firmly press and release the “learn” or “smart” button. (The name and color of the button may vary by manufacturer.)

   NOTE
   Complete the programming within 30 seconds.
7. Return to the vehicle and firmly **press** and **hold** the Homelink button, and then **release** it after two seconds have passed. 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.
   Press the programmed HomeLink button and make sure that the HomeLink System operates.
8. If the status indicator arrows are flashing, refer to Garage Door Two-Way Communication.



NOTE
To program the remaining two HomeLink buttons, go back to ***Step 1*** *of Programming the HomeLink System and repeat the procedure.*

For questions or comments, please contact **HomeLink at www.homelink.com** or **www.youtube.com/HomeLinkGentex**, or the HomeLink toll-free hotline at 1-800-355-3515 (for calls placed outside of the USA, Canada, and Puerto Rico, international rates will apply and may differ based on landline or mobile phone).

▼ 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 are having difficulties programming a gate operator by using the programming procedures (regardless of where you live), **replace Step 3 of Programming the HomeLink System** 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.

While the indicator light is flashing in amber, press the button on the hand-held transmitter for 2 seconds and release it repeatedly until the indicator light changes from amber to green.
Go back to Step 4 of Programming the HomeLink System to complete the procedure.

▼ Operating the HomeLink System

Press the programmed HomeLink button to operate a programmed device.

▼ 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. After 20 seconds, the indicator light flashes in amber. After the indicator light flashes, release the HomeLink button.
3. Go back to Step 2 of Programming the HomeLink System to complete the procedure.

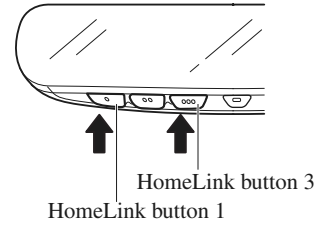
NOTE
If the programming has not been completed, the system returns to the previous programming.

▼ Erasing Programmed HomeLink Buttons

NOTE

- *All of the programmed HomeLink buttons are reset. Individual buttons cannot be reset, however, individual buttons can be reprogrammed. For individual button reprogramming, refer to Reprogramming the HomeLink System (page 4-97).*
- *Verify that the programming has been erased if you resell the vehicle.*

1. Press the two outer HomeLink buttons continuously at the same time until the indicator light flashes.



2. Stop pressing the HomeLink buttons.

▼ Garage Door Two-Way Communication

The garage door two-way communication is a function that communicates with the garage door opener and indicates whether the garages door is open or closed using the indicator lights in the rear view mirror. It can indicate the status of the garage door within a range up-to 250 m (820 ft).

NOTE
The communication range may shorten depending on obstructions.

Programming two-way communication

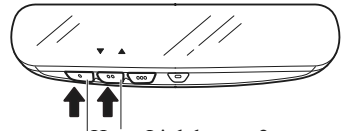
Within five seconds after programming a new HomeLink button, both of the garage door status indicator lights will flash rapidly in green indicating that the garage door two-way communication has been established. If the garage door status indicator lights flash, the two-way communication programming is complete.

If the garage door status indicator lights do not flash, the two-way communication programming is not completed. For additional HomeLink information and programming videos, refer to the following Websites:

- www.HomeLink.com
- www.youtube.com/HomeLinkGentex

Operating the garage door two-way communication

By pressing HomeLink buttons 1 and 2 at the same time for two seconds, the status of the garage door is indicated for about 3 seconds as follows:



Garage door status	Indicator light
Closing	Amber flashes
	▼
Opening	Amber flashes
	▲
Closed	Green turns on
	▼
Opened	Green turns on
	▲

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

Brake System

▼ Foot Brake

This vehicle has power-assisted brakes that adjust automatically through normal use.
Should power-assist fail, you can stop by applying greater force than normal to the brake pedal. But the distance required to stop will be greater than usual.

⚠ WARNING

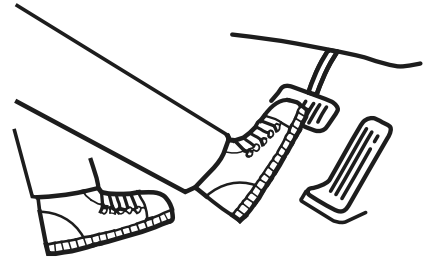
Do not coast with the engine stalled or turned off, find a safe place to stop:
Coasting with the engine stalled or turned off is dangerous. Braking will require more effort, and the brake's power-assist could be depleted if you pump the brake. This will cause longer stopping distances or even an accident.

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 off brakes that have become wet by driving slowly, releasing the accelerator pedal and lightly applying the brakes several times until the 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

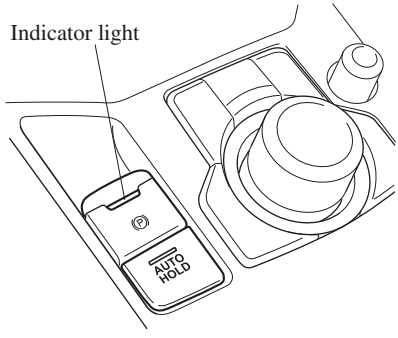
- *Do not drive with your foot held on the brake pedal. Doing so could result in the following:*
  - *The brake parts will wear out more quickly.*
  - *The brakes can overheat and adversely affect brake performance.*
- *Always depress the brake pedal with the right foot. Applying the brakes with the unaccustomed left foot could slow your reaction time to an emergency situation resulting in insufficient braking operation.*



- *Wear shoes appropriate for driving in order to avoid your shoe contacting the brake pedal when depressing the accelerator pedal.*

▼ Electric Parking Brake (EPB)

The EPB equipment applies the parking brake using an electric motor. When the parking brake is applied, the EPB switch indicator light turns on.



⚠ WARNING

Do not drive the vehicle with the parking brake applied:
If the vehicle is driven with the parking brake applied, the brake parts may generate heat and the brake system may not operate, leading to an accident. Before driving, release the parking brake and verify that the EPB indicator light is turned off.

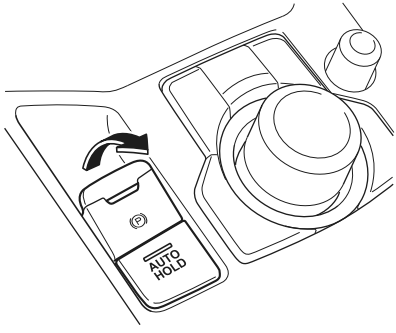
NOTE

- *The parking brake cannot be applied or released while the lead-acid battery is dead.*
- *If the EPB is repeatedly applied and released it may stop operating to prevent overheating of the motor. If this occurs, wait approx. 1 minute before operating the EPB switch again.*
- *An operation sound occurs when applying or releasing the parking brake, however, this does not indicate a malfunction.*
- *If the EPB is not used for long periods, an automatic inspection of the system is performed while the vehicle is parked. An operation sound can be heard, however, this does not indicate a problem.*
- *When the parking brake is applied and the ignition is switched OFF, an operation sound can be heard, however, this does not indicate a problem.*
- *The brake pedal may move while the parking brake is being applied or released, however, this does not indicate a problem.*
- *If the EPB switch is continually pulled while driving the vehicle, the parking brake will be applied and the EPB warning beep will be activated. When the switch is released, the parking brake is released and the beep stops.*
- *If the parking brake is applied with the ignition switched off or in ACC, the EPB indicator light in the instrument cluster and the indicator light in the switch may turn on for 15 seconds.*
- *When running the vehicle through an automatic car wash, it may be necessary to switch the ignition off with the parking brake released depending on the type of automatic car wash.*

When applying the parking brake

The parking brake can be applied regardless of the ignition switch position. Securely depress the brake pedal and pull up the EPB switch.

The parking brake is applied and the EPB indicator light and the EPB switch indicator light turn on.
Refer to If a Warning Light Turns On or Flashes on page 7-22.

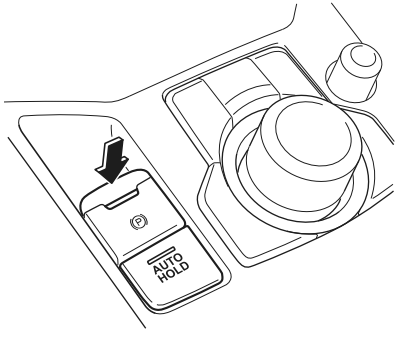


When releasing the parking brake

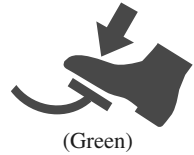
The parking brake can be released while the ignition is switched ON or the engine is running. When the parking brake is released, the EPB indicator light and the EPB switch indicator light turn off.

Parking brake manual release

Firmly depress the brake pedal and press the EPB switch.



If the EPB switch is pressed without depressing the brake pedal, the display or indicator light in the instrument cluster notifies the driver that the brake is not depressed.
(Type A/B instrument cluster)
A message is displayed on the multi-information display in the instrument cluster.
Refer to Message Indicated in Multi-information Display on page 7-37.
(Type C instrument cluster)
The brake pedal operation demand indicator light (green) in the instrument cluster turns on.



(Green)

Parking brake automatic release

If the accelerator pedal is depressed with the parking brake applied and all of the following conditions met, the parking brake is released automatically.

- The engine is running.
- The driver's door is closed.
- The driver's seat belt is fastened.
- Selector lever is in the D, M, or R position

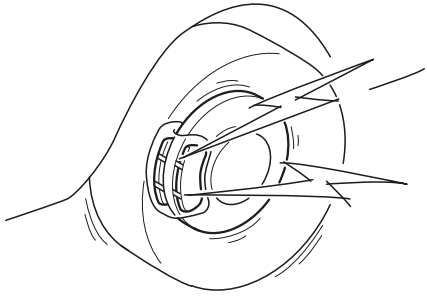
NOTE
If something such as the driver's foot contacts the accelerator pedal with the engine running and the parking brake applied, the parking brake may be released automatically. If you do not intend to drive immediately, shift the selector lever to the P or N position.

▼ Warning Light

The warning light turns on when the system has a malfunction.
Contact an Authorized Mazda Dealer and Have Vehicle Inspected on page 7-25.

▼ 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.

NOTE
In high humidity weather conditions, brake noises, such as brake squeak or brake squeal can be heard. It does not indicate a malfunction.

▼ 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 a malfunction.*
- *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 a malfunction.*
- *The brake assist equipment does not supersede the functionality of the vehicle's main braking system.*

AUTOHOLD

The AUTOHOLD function automatically holds the vehicle stopped, even if you take your foot off the brake pedal. This function can be best used while stopped in traffic or at a traffic light. The brakes are released when you start driving the vehicle.

⚠ WARNING

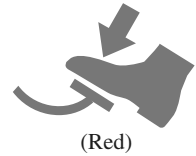
Do not rely completely on the AUTOHOLD function:
The AUTOHOLD function is only designed to assist the brake operation while the vehicle is stopped. Neglecting to operate the brakes and relying only on the AUTOHOLD system is dangerous and could result in an unexpected accident if the vehicle were to suddenly move. Operate the brakes appropriately in accordance with the road and surrounding conditions. Note that the vehicle may move suddenly depending on the vehicle's load or if it is towing something.

Do not release your foot from the brake pedal while the vehicle is stopped on a steep grade:
Because there is a possibility of the vehicle not being held in the stopped position by the AUTOHOLD function, the vehicle may move unexpectedly and result in an accident.

Do not use the AUTOHOLD function on slippery roads such as icy or snow-covered roads, or unpaved roads:
Even if the vehicle is held in the stopped position by the AUTOHOLD function, the vehicle may move unexpectedly and result in an accident. Operate the accelerator pedal, brakes, or steering wheel appropriately as necessary.

Immediately depress the brake pedal in the following cases:
Because the AUTOHOLD function is canceled forcibly, the vehicle may move unexpectedly and result in an accident.

- *The brake pedal operation demand warning light (red) flashes and the warning sound is activated at the same time.*



(Red)

- *[Brake Hold Unavailable Depress Brake to Hold Position] is displayed in the multi-information display and the warning sound is activated at the same time.*

Always apply the parking brake when parking the vehicle:
Not applying the parking brake when parking the vehicle is dangerous as the vehicle may move unexpectedly and result in an accident. When parking the vehicle, shift the selector lever to the P position and apply the parking brake.

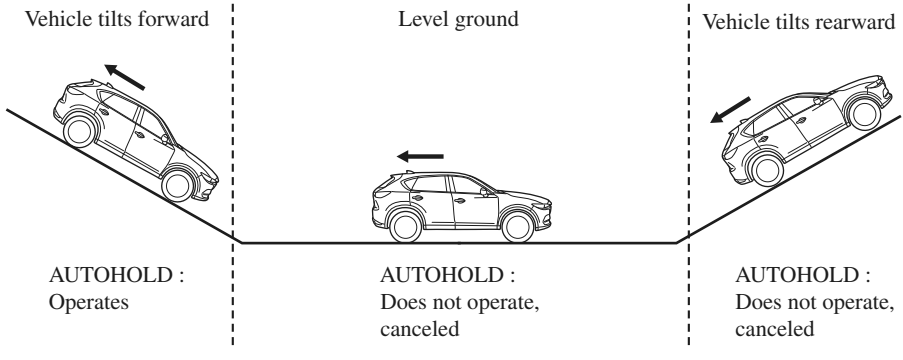
⚠ CAUTION

If you stop operating the accelerator pedal before the vehicle starts moving, the force holding the vehicle in the stopped position may weaken. Firmly depress the brake pedal or depress the accelerator pedal to accelerate the vehicle.

NOTE

- *Under the following conditions, a problem with the AUTOHOLD is occurring. Have your vehicle inspected at an Authorized Mazda Dealer as soon as possible.*
  - *The brake pedal operation demand warning light (red) in the instrument cluster flashes and the warning sound is activated for about 5 seconds while the AUTOHOLD is operating or when you press the AUTOHOLD switch.*
  - *A message is indicated on the multi-information display and a warning sound is activated for about 5 seconds while the AUTOHOLD is operating or when your press the AUTOHOLD switch.*
- *If you switch the ignition OFF while the AUTOHOLD is operating, the parking brake is applied automatically to assist you with parking the vehicle.*
- *The AUTOHOLD is canceled when the selector lever is shifted to R position while the vehicle is on level ground, or facing up a hill or grade (as shown below).*

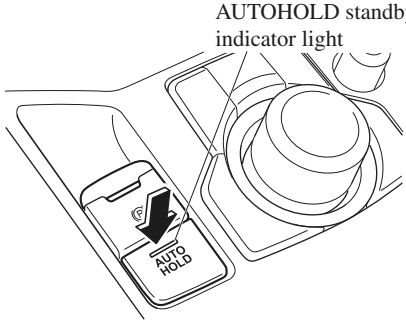
← : Driving in reverse (selector lever in R)



- *The brake pedal response may change, sound may occur from the brakes, or the brake pedal could vibrate from the operation of the AUTOHOLD function. However, this does not indicate a malfunction.*

▼ To Turn On AUTOHOLD System

Press the AUTOHOLD switch and when the AUTOHOLD standby indicator light turns on, the AUTOHOLD function turns on.



NOTE

When all of the following conditions are met, the AUTOHOLD standby indicator light turns on when the AUTOHOLD switch is pressed and the AUTOHOLD function turns on.

- *The ignition is switched ON (engine is running or stopped by i-stop).*
- *The driver's seat belt is fastened.*
- *The driver's door is closed.*
- *There is no problem with the AUTOHOLD function.*

To operate AUTOHOLD and hold the brakes

1. Depress the brake pedal and bring the vehicle to a complete stop.
2. The AUTOHOLD active indicator light in the instrument cluster turns on and the brakes are held.



3. The vehicle is held in its stopped position even with the brake pedal released.

NOTE

When all of the following conditions are met, the AUTOHOLD operates and the brakes are held.

- *The ignition is switched ON (engine is running or stopped by i-stop).*
- *The vehicle is stopped.*
- *The brake pedal is being depressed.*
- *The AUTOHOLD active indicator light turns on.*
- *The accelerator pedal is not depressed.*
- *The driver's seat belt is fastened.*
- *The driver's door is closed.*
- *There is no problem with the AUTOHOLD function.*
- *The parking brake is released.*
- *There is no problem with the Electric Parking Brake (EPB) function.*
- *The selector lever is in a position other than R position or the vehicle tilts forward with the selector lever in the R position.*

To release AUTOHOLD and start driving the vehicle

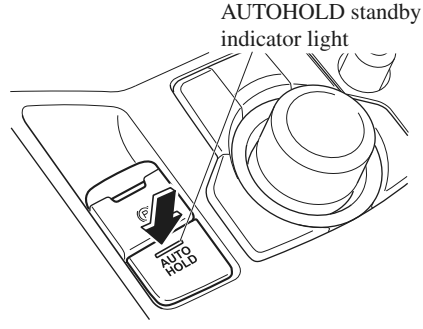
If you try to resume driving the vehicle, the brakes release automatically and the AUTOHOLD active indicator light turns off.

NOTE

- *If the Electric Parking Brake (EPB) switch is pulled while the AUTOHOLD is operating, the parking brake is applied and the AUTOHOLD is released. In addition, if the parking brake is released under this condition, the AUTOHOLD operates to hold the brakes.*
- *Under the following conditions, the parking brake is automatically applied and the AUTOHOLD is released. The AUTOHOLD is re-enabled when the conditions before the AUTOHOLD is released are restored.*
  - *The driver's seat belt is unfastened.*
  - *The driver's door is opened.*
- *When about 10 minutes or longer have passed since the AUTOHOLD operation started, the parking brake is automatically applied. Because the AUTOHOLD is restored when releasing the parking brake, the hold on the brakes by AUTOHOLD function resumes.*

▼ To Turn Off AUTOHOLD System

Depress the brake pedal and press the AUTOHOLD switch. The AUTOHOLD is turned off and the AUTOHOLD standby indicator light turns off.



NOTE

- *When the brakes are not held such as while driving the vehicle, the AUTOHOLD can be turned off only by pressing the AUTOHOLD switch.*
- ***(Type A/B instrument cluster)***
  If the AUTOHOLD switch is pressed without depressing the brake pedal while AUTOHOLD is operating (AUTOHOLD active indicator light in instrument cluster is turned on), the message Brake Pedal Must Be Depressed to Deactivate Auto Hold System is indicated on the multi-information display to notify the driver to depress the brake pedal.

- ***(Type C instrument cluster)***
  If the AUTOHOLD switch is pressed without depressing the brake pedal while the AUTOHOLD is operating (AUTOHOLD active indicator light is turned on), the brake pedal operation demand indicator light (green) in the instrument cluster turns on to notify the driver that it is necessary to depress the brake pedal.



(Green)

- *If any of the following conditions occurs while the AUTOHOLD function is operating (AUTOHOLD active indicator light is turned on), the parking brake is applied automatically and the AUTOHOLD function turns off. For the Electric Parking Brake (EPB) operation, refer to the Electric Parking Brake (EPB) on page 4-100.*
  - *The ignition is switched OFF.*
  - *There is a problem with the AUTOHOLD function.*

Hill Launch Assist (HLA)

HLA is a function which assists the driver in accelerating from a stop while on a slope. When the driver releases the brake pedal and depresses the accelerator pedal while on a slope, the function prevents the vehicle from rolling. The braking force is maintained automatically after the brake pedal is released on a steep grade.
HLA operates on a downward slope when the selector lever is in the reverse (R) position, and on an upward slope when the selector lever is in a forward gear.

⚠ WARNING

Do not rely completely on HLA :
HLA is an auxiliary device for accelerating from a stop on a slope. The system only operates for about 2 seconds and therefore, relying only on the system, when accelerating from a stop is dangerous because the vehicle may move (roll) unexpectedly and cause an accident.
The vehicle could roll depending on the vehicle's load or if it is towing something. Always confirm the safety around the vehicle before starting to drive the vehicle.

NOTE

- *HLA does not operate on a gentle slope. In addition, the gradient of the slope on which the system will operate changes depending on the vehicle's load.*
- *HLA does not operate if the parking brake is applied, or if the vehicle has not stopped completely.*
- *HLA is operating, the brake pedal may feel stiff and vibrate, however, this does not indicate a malfunction.*

- *HLA does not operate while the TCS/DSC indicator light is illuminated. Refer to Contact an Authorized Mazda Dealer and Have Vehicle Inspected on page 7-25.*
- *HLA does not turn off even if the TCS OFF switch is pressed to turn off the TCS.*

Antilock Brake System (ABS)

The ABS control unit continuously monitors the speed of each wheel. If one wheel 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 ABS system operation. Continue to depress the brake pedal without pumping the brakes.

The warning light turns on when the system has a malfunction.
Contact an Authorized Mazda Dealer and Have Vehicle Inspected on page 7-25.

⚠ 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.*

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, limiting wheel spin and loss of traction.
The warning light turns on when the system has a malfunction.
Contact an Authorized Mazda Dealer and Have Vehicle Inspected on page 7-25.

⚠ WARNING

Do not rely on the Traction Control System (TCS) 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.

NOTE
To turn off the TCS, press the TCS OFF switch (page 4-111).

▼ TCS/DSC Indicator Light



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

If the light stays on, the TCS, DSC or the brake assist system may have a malfunction and they may not operate correctly. Take your vehicle to an Authorized Mazda Dealer.

NOTE

- *In addition to the indicator light flashing, a slight lugging sound will come from the engine. This indicates that the TCS/DSC 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*



This indicator light stays on for a few seconds when the ignition is switched ON. It also illuminates when the TCS OFF switch is pressed and TCS is switched off.

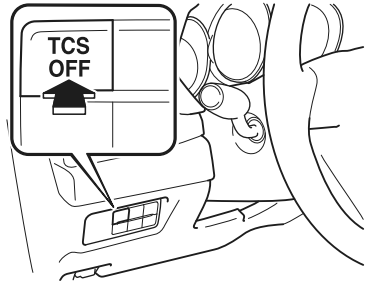
 *Some models.

Refer to TCS OFF Switch on page 4-111.

If the light remains illuminated and the TCS is not switched off, take your vehicle to an Authorized Mazda Dealer. The DSC may have a malfunction.

▼ TCS OFF Switch*

Press the TCS OFF switch to turn off the TCS. The TCS OFF indicator light in the instrument cluster will illuminate.



Press the switch again to turn the TCS back on. The TCS OFF indicator light will turn off.

NOTE

- *When the TCS is on and you attempt to free the vehicle from being stuck, the TCS will activate. Depressing the accelerator will not increase engine power and freeing the vehicle from being stuck might 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 is switched ON.*
- *Leaving the TCS on will provide the best traction.*
- *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 4-109) and TCS (page 4-110).

DSC operation is possible at speeds greater than 20 km/h (12 mph).

The warning light turns on when the system has a malfunction.
Contact an Authorized Mazda Dealer and Have Vehicle Inspected on page 7-25.

⚠ 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 4 wheels.*
  - *Use tires of the same manufacturer, brand and tread pattern on all 4 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 is switched ON. If the TCS or DSC is operating, the indicator light flashes.

If the light stays on, the TCS, DSC or the brake assist system may have a malfunction and they may not operate correctly. Take your vehicle to an Authorized Mazda Dealer.

Off-Road Traction Assist*

When the vehicle tires become embedded in mud, sand, or deep snow, the Off-Road Traction Assist functions to prevent drive-wheel spinning and to assist in freeing tires that are stuck.
Do not drive over rough rocky roads and river beds.

⚠ WARNING

Do not rely completely on the Off-Road Traction Assist.
The Off-Road Traction Assist has limitations. Always drive the vehicle safely according to the road conditions. Do not drive the vehicle recklessly, otherwise it may result in an accident. In addition, do not drive the vehicle under the following conditions while the Off-Road Traction Assist is operating. Otherwise, it could negatively affect the drivetrain parts which could result in an accident.

- *Vehicle is driven on paved roads.*
- *Temporary spare tire or tires of a different specified size are used.*
- *Tire chains are used.*

⚠ CAUTION

The Off-Road Traction Assist is a function to assist in freeing tires that are stuck. When it is not necessary to use this function, avoid driving the vehicle continuously with the Off-Road Traction Assist on.
(Vehicle equipped with Type A/B instrument cluster)
If the vehicle is driven continuously with the Off-Road Traction Assist on, the AWD warning indication may be displayed.
(Vehicle equipped with Type C instrument cluster)
If the vehicle is driven continuously with the Off-Road Traction Assist on, the AWD warning light may flash.
Refer to If a Warning Light Turns On or Flashes on page 7-22.

NOTE
The vehicle may vibrate or you might hear an operation sound while the Off-Road Traction Assist is operating or is operational, however, this does not indicate a problem.

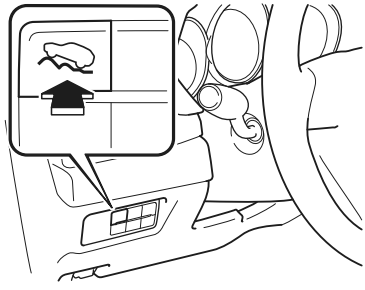
▼ Off-Road Traction Assist Indicator Light



- When the ignition is switched ON, the indicator light turns on and then turns off after a few seconds.
- When pressing the Off-Road Traction Assist switch to operate the Off-Road Traction Assist, the indicator light turns on.
- A problem in the system might be indicated under the following conditions. Have your vehicle inspected by an Authorized Mazda Dealer.
  - The indicator light does not turn on when the ignition is switched ON or it remains on.
  - The indicator light turns on even though the Off-Road Traction Assist was not operated.

▼ Off-Road Traction Assist Switch

When the switch is pressed after stopping the vehicle, the Off-Road Traction Assist becomes operational.
The Off-Road Traction Assist indicator light in the instrument cluster turn on.



If the switch is pressed again, the Off-Road Traction Assist is stopped and the Off-Road Traction Assist indicator light turn off.

NOTE
If the engine is stopped with the Off-Road Traction Assist operational, the Off-Road Traction Assist is stopped when the engine is started the next time.

Mazda intelligent Drive Select (Mi-Drive)

▼ Mazda intelligent Drive Select (Mi-Drive)

Mi-drive is a system that switches the drive modes depending on the driving conditions, road conditions and vehicle conditions.
The mode can be switched from normal to sport or off-road.

Sport mode

This mode enhances vehicle responsiveness when the accelerator pedal is depressed.
This provides additional quick acceleration which may be needed to safely make maneuvers such as lane changes, merging onto freeways, or passing other vehicles.

Off-road mode*

This mode helps prevent drive-wheel spinning during off-road driving and improves driving performance.
And this mode also assists in freeing tires that are stuck.
Use this mode to drive the vehicle on slippery roads such as muddy, sandy, or deep-snowy roads.

Warnings and cautions when using Mi-Drive

⚠ WARNING

- *Do not rely completely on the Mi-Drive system.*
- *Vehicle stability is limited even when Mi-drive is activated.*
- *Always drive the vehicle safely. Do not drive the vehicle recklessly, otherwise it may result in an accident.*
- *Use Off-road mode when driving on slippery roads such as muddy, sandy, or deep-snowy roads. During normal driving, use normal mode.*

⚠ CAUTION

- *Do not use the sport mode when driving on slippery roads such as wet or snow-covered roads. It may cause tire slipping.*
- *Heed the following cautions so that the system can operate normally.*
  - *Always use tires of the specified size, same manufacturer, brand, and pattern (tread pattern) for the front and rear wheels.*
  - *Do not use tires with significantly different wear patterns on the same vehicle.*
- *Drive carefully when using tire chains. Because the diameter of the tires differs, the system may not operate normally.*

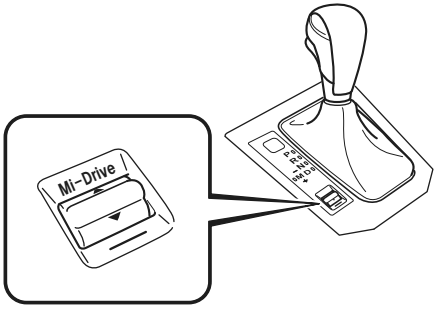
*Some models.

Mazda intelligent Drive Select (Mi-Drive)

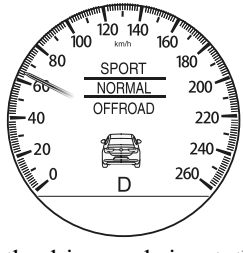
How to use Mi-Drive

Type A

1. Push the Mi-Drive switch forward or pull it toward you.



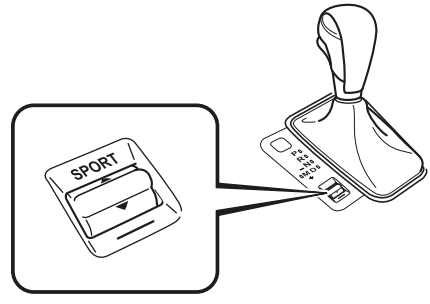
2. While checking the list displayed in the instrument cluster, push the Mi-Drive switch forward or pull it toward you to select a drive mode.



When the drive mode is set, the display in the instrument cluster changes.
Refer to Mazda intelligent Drive Select (Mi-Drive) Display on page 4-27.

Type B

1. Press the Mi-Drive switch forward (SPORT) to select the sport mode.



2. **Instrument Cluster (Type A)**
When the drive mode is set, the display in the instrument cluster changes.
Refer to Mazda intelligent Drive Select (Mi-Drive) Display on page 4-27.
Instrument Cluster (Type B/C)
When the sport mode is selected, the select mode indication turns on in the instrument cluster.



3. Pull the Mi-Drive switch back (OFF) to cancel the sport mode.

NOTE

- *Depending on the driving conditions when sport mode is selected, the vehicle may perform shift-down or slightly accelerate.*
- *When the sport mode is selected, driving at higher engine speeds increases and it may increase fuel consumption. Mazda recommends that you cancel the sport mode on normal driving.*
- ***Instrument Cluster (Type A)***
The driving mode in which the display in the instrument cluster is grayed out cannot be selected.

- *When the ignition is switched OFF, the mode returns to normal mode.*
- *The drive mode cannot be switched in the following cases.*
  - *The Antilock Brake System (ABS) is operating.*
  - *The Traction Control System (TCS) is operating.*
  - *The Dynamic Stability Control (DSC) is operating.*
  - *The steering wheel is being operated abruptly.*
- *In the following cases, the sport mode is canceled.*
  - *The ignition is switched OFF.*
  - *Cruise control is set.*
  - *Mazda Radar Cruise Control with Stop & Go function (MRCC with Stop & Go function) system is set.*
  - *Cruising & Traffic Support (CTS) is set.*
- *The vehicle may vibrate or you might hear an operation sound while the Off-road mode is operating or is operational, however, this does not indicate a problem.*

i-ACTIV AWD Operation*

AWD provides excellent drivability on snow-covered and ice-packed roads, sand and mud, as well as on steep slopes and other slippery surfaces.
A system malfunction or operation conditions are indicated by a warning.
Contact an Authorized Mazda Dealer and Have Vehicle Inspected on page 7-25.

⚠ 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.

▼ 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.

▼ 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

- 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 unevenly worn tires or tread-worn tires with normal tires.
- Inspect tire inflation pressures at the specified periods adjust to the specified pressures.

NOTE
Check the tire inflation pressure label attached to driver's door frame for the correct tire inflation pressure.

 *Some models.

- Unevenly worn tires, mismatched manufacturers, models, or brands can be different in size even if the printed size on the tire is the same. AWD functionality may be limited or potential damage to the AWD system may occur with tires of different sizes.

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 4 wheels completely off the ground.
Refer to Towing Description on page 7-19.

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 or the steering vibrates, consult an Authorized Mazda Dealer.
- The warning indication/warning light notifies the driver of system abnormalities and operation conditions. In addition, the buzzer may also activate depending on the system abnormality or operation condition.
  Refer to Stop Vehicle in Safe Place Immediately on page 7-22.
  Refer to Power Steering Warning Buzzer on page 7-42.

⚠ 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.

i-ACTIVSENSE*

i-ACTIVSENSE is a collective term covering a series of advanced safety and driver support systems which make use of a Forward Sensing Camera (FSC) and radar sensors. These systems consist of active safety and pre-crash safety systems.
These systems are designed to assist the driver in safer driving by reducing the load on the driver and helping to avert collisions or reduce their severity. However, because each system has its limitations, always drive carefully and do not rely solely on the systems.

▼ Active Safety Technology

Active Safety Technology supports safer driving by helping the driver to recognize potential hazards and avert accidents.

Driver awareness support systems

Nighttime visibility

Adaptive Front Lighting System (AFS).....page 4-124
High Beam Control System (HBC).....page 4-125

Left/right side and rear side detection

Lane Departure Warning System (LDWS).....page 4-180
Blind Spot Monitoring (BSM).....page 4-128

Road sign recognition

Traffic Sign Recognition System (TSR).....page 4-133

Inter-vehicle distance recognition

Distance Recognition Support System (DRSS).....page 4-139

Driver fatigue detection

Driver Attention Alert (DAA).....page 4-143

Rear obstruction detection when leaving a parking space

Rear Cross Traffic Alert (RCTA).....page 4-145

Full-surround recognition

360°View Monitor.....page 4-206

Driver support systems

Inter-vehicle distance

Mazda Radar Cruise Control with Stop & Go function (MRCC with Stop & Go function).....page 4-149

Lane departure

Lane-keep Assist System (LAS).....page 4-180

Inter-vehicle distance and lane keeping

Cruising & Traffic Support (CTS).....page 4-164

▼ Pre-Crash Safety Technology

Pre-crash safety technology is designed to assist the driver in averting collisions or reduce their severity in situations where they cannot be avoided.

Collision damage reduction in low vehicle speed range

Forward driving

Smart City Brake Support [Forward] (SCBS F).....page 4-196
Advanced Smart City Brake Support (Advanced SCBS).....page 4-193

Reverse driving

Smart City Brake Support [Reverse] (SCBS R).....page 4-200

Collision damage reduction in medium/high speed range

Smart Brake Support (SBS).....page 4-204

▼ Camera and Sensors

Forward Sensing Camera (FSC)

The Forward Sensing Camera (FSC) detects lane indications and recognizes headlights, taillights and city lights during nighttime driving. In addition, it also detects the vehicle ahead, pedestrians, or obstructions. The following systems also use the Forward Sensing Camera (FSC).

- High Beam Control System (HBC)
- Driver Attention Alert (DAA)
- Lane-keep Assist System (LAS) & Lane Departure Warning System (LDWS)
- Cruising & Traffic Support (CTS)
- Traffic Sign Recognition System (TSR)
- Advanced Smart City Brake Support (Advanced SCBS)
- Smart City Brake Support [Forward] (SCBS F)
- Smart Brake Support (SBS)
- Mazda Radar Cruise Control with Stop & Go function (MRCC with Stop & Go function)

The Forward Sensing Camera (FSC) is installed at the top of the windshield near the rearview mirror.
Refer to Forward Sensing Camera (FSC) on page 4-234.

Radar sensor (front)

The radar sensor (front) functions by detecting the radio waves reflected off a vehicle ahead sent from the radar sensor. The following systems also use the radar sensor (front).

- Mazda Radar Cruise Control with Stop & Go function (MRCC with Stop & Go function)
- Distance Recognition Support System (DRSS)
- Cruising & Traffic Support (CTS)
- Smart Brake Support (SBS)

The radar sensor (front) is mounted behind the radiator grille.
Refer to Radar Sensor (Front) on page 4-239.

Radar sensors (rear)

The radar sensors (rear) function by detecting the radio waves reflected off a vehicle approaching from the rear or an obstruction sent from the radar sensors. The following systems also use the radar sensors (rear).

- Blind Spot Monitoring (BSM)
- Rear Cross Traffic Alert (RCTA)

The radar sensors (rear) are installed inside the rear bumper, one each on the left and right sides.
Refer to Radar Sensors (Rear) on page 4-242.

Ultrasonic sensors (rear)

The ultrasonic sensors (rear) function by detecting the ultrasonic waves reflected off obstructions at the rear sent from the ultrasonic sensors. The following systems also use the ultrasonic sensors (rear).

- Smart City Brake Support [Reverse] (SCBS R)

The ultrasonic sensors (rear) are mounted in the rear bumper.
Refer to Ultrasonic Sensors (Rear) on page 4-244.

Front camera/side cameras/rear view camera

The front camera, side cameras, and rear camera shoot images of the area surrounding the vehicle. The 360° View Monitor uses each camera.
Cameras are installed to the front bumper, door mirrors, and liftgate.
Refer to Front Camera/Side Cameras/Rear Camera on page 4-245.

Adaptive Front Lighting System (AFS)*

The adaptive front lighting system (AFS) automatically adjusts the headlight beams to the left or right in conjunction with the operation of the steering wheel after the headlights have been turned on.
A system malfunction or operation conditions are indicated by a warning.
Refer to Contact Authorized Mazda Dealer and Have Vehicle Inspected on page 7-25.

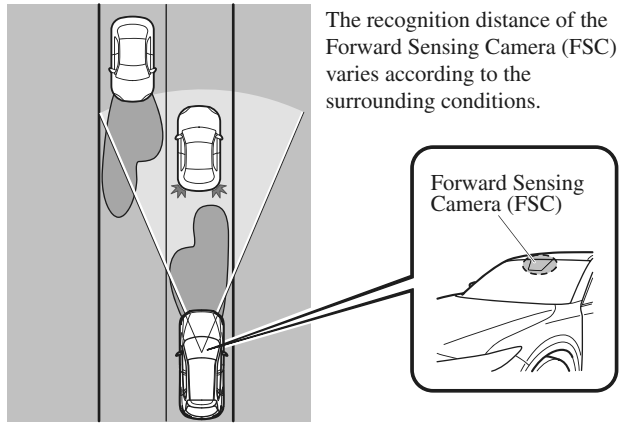
NOTE
The Adaptive Front Lighting System (AFS) function can be switched to operable/inoperable using the personalization function.
Refer to the Settings section in the Mazda Connect Owner's Manual.

 *Some models.

High Beam Control System (HBC)*

The HBC determines the conditions in front of the vehicle using the Forward Sensing Camera (FSC) while driving in darkness to automatically switch the headlights between high and low beams.
Refer to Forward Sensing Camera (FSC) on page 4-234.
While driving the vehicle at a speed of about 30 km/h (19 mph) or more, the headlights are switched to high beams when there are no vehicles ahead or approaching in the opposite direction.
The system switches the headlights to low beams when one of the following occurs:

- The system detects a vehicle or the headlights/lights of a vehicle approaching in the opposite direction.
- The vehicle is driven on roads lined with streetlamps or on roads in well-lit cities and towns.
- The vehicle is driven at less than about 20 km/h (12 mph).



The recognition distance of the Forward Sensing Camera (FSC) varies according to the surrounding conditions.

The warning light turns on when the system has a malfunction.
Refer to Contact Authorized Mazda Dealer and Have Vehicle Inspected on page 7-25.

⚠ CAUTION

- *Do not adjust the vehicle height, modify the headlight units, or remove the camera, otherwise the system will not operate normally.*
- *Do not rely excessively on the HBC and drive the vehicle while paying sufficient attention to safety. Switch the headlights between the high beams and low beams manually if necessary.*

NOTE
The timing in which the system switches the headlights changes under the following conditions. If the system does not switch the headlights appropriately, manually switch between high and low beams according to the visibility as well as road and traffic conditions.

- *When there are sources of light in the area such as streetlamps, illuminated signboards, and traffic signals.*
- *When there are reflective objects in the surrounding area such as reflective plates and signs.*
- *When visibility is reduced under rain, snow and foggy conditions.*
- *When driving on roads with sharp turn or hilly terrain.*
- *When the headlights/rear lamps of vehicles in front of you or in the opposite lane are dim or not illuminated.*
- *When there is sufficient darkness such as at dawn or dusk.*
- *When the luggage compartment is loaded with heavy objects or the rear passenger seats are occupied.*
- *When visibility is reduced due to a vehicle in front of you spraying water from its tires onto your windshield.*

▼ To Operate the System

The HBC operates to switch the headlights automatically between high and low beams after the ignition is switched ON and the headlight switch is in the AUTO and high beam position.
The HBC determines that it is dark based on the brightness of the surrounding area. At the same time, the HBC indicator light (green) in the instrument cluster illuminates.



NOTE

- *When the vehicle speed is about 30 km/h (19 mph) or more, the headlights automatically switch to high beams when there are no vehicles ahead or approaching in the opposite direction. When the vehicle speed is less than about 20 km/h (12 mph), the HBC switches the headlights to low beams.*
- *The low beams may not switch to high beams when cornering.*
- *Operation of the HBC function can be disabled. Refer to the Settings section in the Mazda Connect Owner's Manual.*

▼ Manual Switching

Switching to low beams

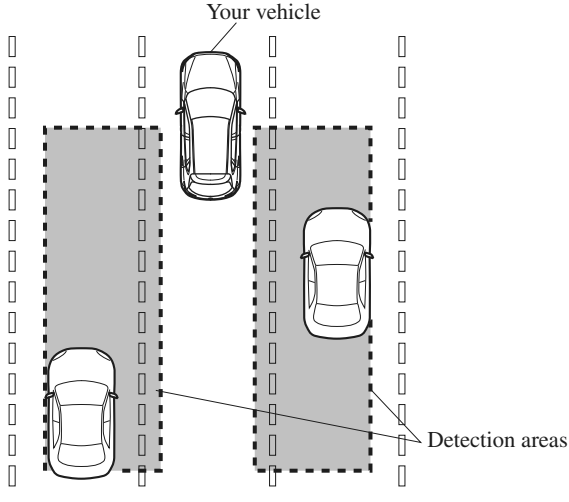
Shift the lever to the low beam position. The HBC indicator light (green) turns off.

Switching to high beams

Turn the headlight switch to the ≣D position.
The HBC indicator light (green) turns off and the ≣D is illuminated.

Blind Spot Monitoring (BSM)*

The BSM is designed to assist the driver in checking the area to the rear of the vehicle on both sides during lane changes by notifying the driver of the presence of vehicles approaching from the rear in an adjacent lane.
The BSM detects vehicles approaching from the rear while traveling in the forward direction at a speed of 10 km/h (6.3 mph) or faster and notifies the driver by turning on the BSM warning indicator light and displaying the vehicle detection screen (vehicles with instrument cluster (Type A/B) and active driving display).
If the turn signal lever is operated to signal a turn in the direction in which the BSM warning indicator light is illuminated while the approaching vehicle is detected, the BSM notifies the driver of possible danger by turning on the BSM warning indicator light, and by activating the warning sound and the warning screen indicator display (vehicles with instrument cluster (Type A/B) and active driving display).
The detection area on this system covers the driving lanes on both sides of the vehicle and from the rear part of the front doors to about 50 m (164 ft) behind the vehicle.



⚠ WARNING

Always check the surrounding area visually before making an actual lane change:
The system is only designed to assist you in checking for vehicles at your rear when making a lane change. Due to certain limitations with the operation of this system, the BSM warning indicator light, the warning sound and the warning screen indicator display may not activate or they might be delayed even though a vehicle is in an adjacent driving lane. Always make it your responsibility as a driver to check the rear.

 *Some models.

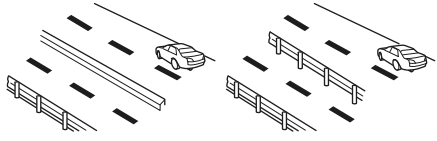
NOTE

- *The BSM will operate when all of the following conditions are met:*
  - *The ignition is switched ON.*
  - *The BSM OFF indicator light in the instrument cluster is turned off.*
  - *The vehicle speed is about 10 km/h (6.3 mph) or faster.*
- *The BSM will not operate under the following circumstances.*
  - *The vehicle speed falls below about 10 km/h (6.3 mph) even though the BSM OFF indicator light is turned off.*
  - *The selector lever is shifted to reverse (R) and the vehicle is reversing.*
  - *The turning radius is small (making a sharp turn, turning at intersections).*
- *In the following cases, the BSM OFF indicator light turns on and operation of the system is stopped. If the BSM OFF indicator light remains illuminated, have the vehicle inspected at an Authorized Mazda Dealer as soon as possible.*
  - *Some problem with the system including the BSM warning indicator lights is detected.*
  - *A large deviation in the installation position of a radar sensor (rear) on the vehicle has occurred.*
  - *There is a large accumulation of snow or ice on the rear bumper near a radar sensor (rear). Remove any snow, ice or mud on the rear bumper.*
  - *Driving on snow-covered roads for long periods.*
  - *The temperature near the radar sensors (rear) becomes extremely hot due to driving for long periods on slopes during the summer.*
  - *The battery voltage has decreased.*
- *Under the following conditions, the radar sensors (rear) cannot detect target objects or it may be difficult to detect them.*
  - *A vehicle is in the detection area at the rear in an adjacent driving lane but it does not approach. The BSM determines the condition based on radar detection data.*
  - *A vehicle is traveling alongside your vehicle at nearly the same speed for an extended period of time.*
  - *Vehicles approaching in the opposite direction.*
  - *A vehicle in an adjacent driving lane is attempting to pass your vehicle.*
  - *A vehicle is in an adjacent lane on a road with extremely wide driving lanes. The detection area of the radar sensors (rear) is set at the road width of expressways.*
- *In the following case, the flashing of the BSM warning indicator light, and the activation of the warning sound and the warning screen indicator display may not occur or they may be delayed.*
  - *A vehicle makes a lane change from a driving lane two lanes over to an adjacent lane.*
  - *Driving on steep slopes.*
  - *Crossing the summit of a hill or mountain pass.*

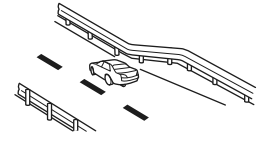
・When there is a difference in the height between your driving lane and the adjacent lane.
・Directly after the BSM system becomes operable by changing the setting.

・If the road width is extremely narrow, vehicles two lanes over may be detected. The detection area of the radar sensors (rear) is set according to the road width of expressways.
・The BSM warning indicator light may turn on and the vehicle detection screen may be displayed in the display in reaction to stationary objects (guardrails, tunnels, sidewalls, and parked vehicles) on the road or the roadside.

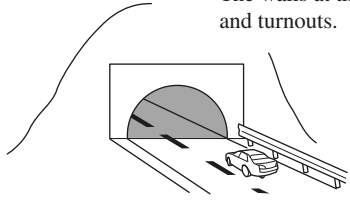
Objects such as guardrails and concrete walls running alongside the vehicle.

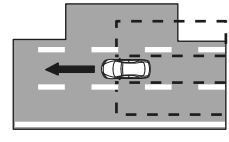


Places where the width between guardrails or walls on each side of the vehicle narrows.



The walls at the entrance and exits of tunnels and turnouts.





・A BSM warning indicator light may flash or the warning beep may be activated several times when making a turn at a city intersection.
・Turn off the BSM while pulling a trailer or while an accessory such as a bicycle carrier is installed to the rear of the vehicle. Otherwise, the radar's radio waves will be blocked causing the system to not operate normally.
・In the following cases, it may be difficult to view the illumination/flashing of the BSM warning indicator lights equipped on the door mirrors.

・Snow or ice is adhering to the door mirrors.
・The front door glass is fogged or covered in snow, frost or dirt.

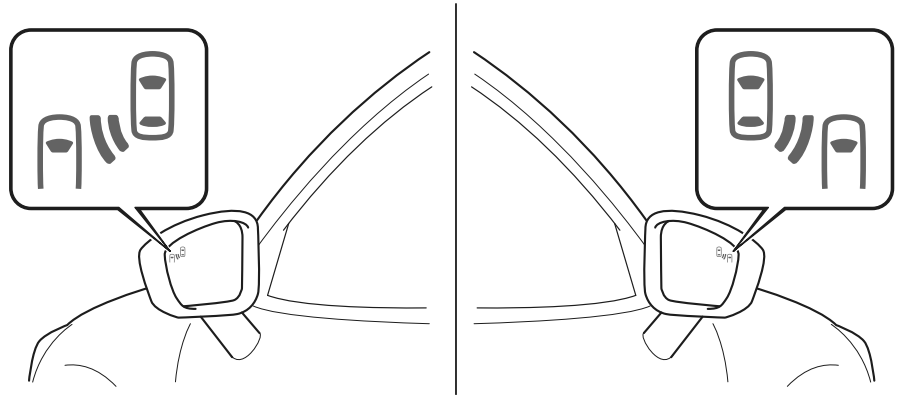
・The radar sensors (rear) of the BSM may be regulated under the radio wave related laws of the country where the vehicle is driven. The sensors in this system are approved for use in the U.S.A. (including territories), Canada, and Mexico. If a vehicle with a BSM is driven in a country other than the U.S.A., Canada, or Mexico, the system has to be turned off by changing the setting on the center display.
・The system switches to the Rear Cross Traffic Alert (RCTA) function when the selector lever is shifted to the reverse (R) position.
Refer to Rear Cross Traffic Alert (RCTA) on page 4-145.

▼ Blind Spot Monitoring (BSM) Warning Indicator Light/Display Indicator/Blind Spot Monitoring (BSM) Warning Beep

The BSM or Rear Cross Traffic Alert (RCTA) system notifies the driver of the presence of vehicles in adjacent lanes or at the rear of the vehicle using the BSM warning indicator light, the warning sound and the display indicator (vehicles with instrument cluster (Type A/B) and active driving display) (BSM) while the systems are operational.

BSM warning indicator lights

The BSM warning indicator lights are equipped on the left and right door mirrors. The warning indicator lights turn on when a vehicle approaching from the rear in an adjacent lane is detected.



When the ignition is switched ON, the warning indicator light turns on momentarily and then turns off after a few seconds.

Forward driving (BSM operation)

The BSM detects vehicles approaching from the rear and turns on the BSM warning indicator lights equipped on the door mirrors according to the conditions. Additionally, while a BSM warning indicator light is illuminated, if the turn signal lever is operated to signal a turn in the direction in which the BSM warning indicator light is illuminated, the BSM warning indicator light flashes.

Reverse driving (Rear Cross Traffic Alert (RCTA) system operation)

The Rear Cross Traffic Alert (RCTA) system detects a vehicle approaching from the rear of the vehicle and flashes the BSM warning indicator lights.

Function for cancelling illumination dimmer

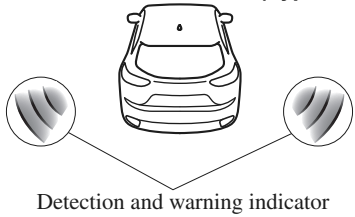
If the BSM warning indicator lights turn on when the parking lights are turned on, the brightness of the BSM warning indicator lights is dimmed.

If the BSM warning indicator lights are difficult to see due to glare from surrounding brightness when traveling on snow-covered roads or under foggy conditions, press the dimmer cancellation button to cancel the dimmer and increase the brightness of BSM warning indicator lights when they turn on.
Refer to Dashboard Illumination on page 4-24, 4-41, 4-55.

Display indicator (Vehicles with multi-information display and active driving display)

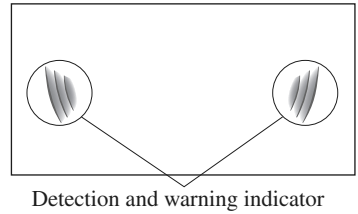
The detected approaching vehicle and warning are displayed in the multi-information display and active driving display when the vehicle is moving forward (BSM operational).

Multi-information Display
Instrument Cluster (Type A/B)



Detection and warning indicator

Active Driving Display



Detection and warning indicator

The detected direction is displayed with a detection indicator (white) when an approaching vehicle is detected. In addition, if the turn signal lever is operated to signal a lane change while the vehicle is detected, the display changes the color (amber) of the warning indicator.

BSM warning beep

The BSM warning beep is activated simultaneously with the flashing of a BSM warning indicator light.

▼ Canceling Operation of Blind Spot Monitoring (BSM)

The BSM system can be set to inoperable. Refer to the Settings section in the Mazda Connect Owner's Manual.
When the BSM is set to inoperable, the BSM and Rear Cross Traffic Alert (RCTA) systems are turned off and the BSM OFF indicator light in the instrument cluster turns on.



NOTE
When the ignition is switched OFF, the system status before it was turned off is maintained. For example, if the ignition is switched OFF while the BSM and Rear Cross Traffic Alert (RCTA) systems are operational, the BSM and Rear Cross Traffic Alert (RCTA) systems remain operational the next time the ignition is switched ON.

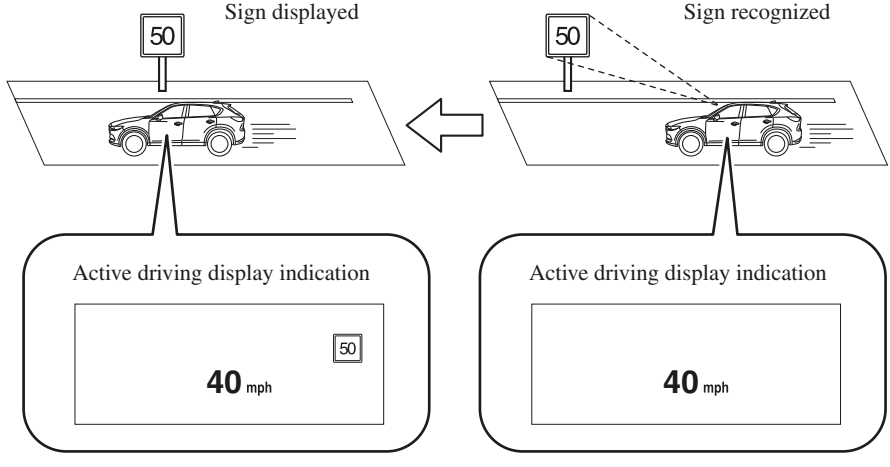
Traffic Sign Recognition System (TSR)*

The TSR helps prevent the driver from overlooking traffic signs, and provides support for safer driving by displaying traffic signs on the active driving display which are recognized by the Forward Sensing Camera (FSC) or recorded in the navigation system while the vehicle is driven.
The TSR displays the speed limit, do not enter, and traffic stop signs.
If the vehicle speed exceeds the speed limit sign indicated in the active driving display while the vehicle is driven, the system notifies the driver using the indication in the active driving display and a warning sound.

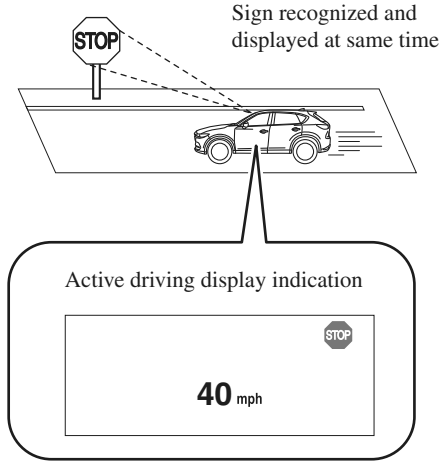
NOTE

- *The TSR is not supported in some countries or regions. For information concerning the supported countries or regions, consult an Authorized Mazda Dealer.*
- *The TSR operates only if the navigation system SD card (Mazda genuine) is inserted in the SD card slot. Consult an Authorized Mazda Dealer for details.*

Speed limit signs and do not enter signs



Stop sign



⚠ WARNING

Always check the traffic signs visually while driving.

The TSR helps prevent the driver from overlooking traffic signs and provides support for safer driving. Depending on the weather conditions or problems with traffic signs, a traffic sign may not be recognized or a traffic sign different from the actual traffic sign may be displayed. Always make it your responsibility as a driver to check the actual traffic signs. Otherwise, it could result in an accident.

NOTE

- *The TSR does not operate if there is a malfunction in the Forward Sensing Camera (FSC).*
- *Under the following conditions, the TSR may not operate normally.*
  - *An object placed on the dashboard is reflected in the windshield and picked up by the camera.*
  - *Heavy luggage is loaded in the luggage compartment or on the rear seat and the vehicle is tilted.*
  - *The tire pressures are not adjusted to the specified pressure.*
  - *Tires other than standard tires are equipped.*
  - *The vehicle is driven on the ramp and surrounding area to or from a rest area or a tollgate on a highway.*
  - *When surrounding brightness suddenly changes such as when entering or exiting a tunnel.*

- *The illumination of the headlights is weakened because of dirt or the optical axis is deviated.*
- *The windshield is dirty or foggy.*
- *The windshield and camera are fogged (water droplets).*
- *Strong light is directed at the front of the vehicle (such as backlight or high-beam headlights of on-coming vehicles).*
- *The vehicle is making a sharp turn.*
- *Strong light reflects off the road.*
- *A traffic sign is in a position which makes it difficult to reflect the light from the vehicle's headlights, such as when the vehicle is driven at night or in a tunnel.*
- *The vehicle is driven under weather conditions such as rain, fog, or snow.*
- *The stored map data for the navigation system is not current.*
- *A traffic sign is obscured by mud or snow.*
- *A traffic sign is concealed by trees or a vehicle.*
- *A traffic sign is partially shaded.*
- *A traffic sign is bent or warped.*
- *A traffic sign is too low or too high.*
- *A traffic sign is too bright or too dark (including electronic traffic signs).*
- *A traffic sign is too big or too small.*
- *There is an object similar to the traffic sign being read (such as another traffic sign or other signs resembling it).*

- *The TSR does not operate if the active driving display is set to non-display.*
- *The TSR can be set to inoperable.*
  Refer to the Settings section in the Mazda Connect Owner's Manual.

▼ Traffic Sign Display Indication

The following traffic signs are displayed on the active driving display.

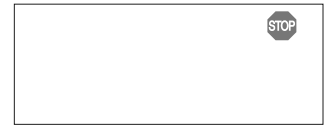
Speed limit signs



Do not enter signs



Stop signs



NOTE

Speed limit signs

- *When the vehicle speed is about 1 km/h (0.6 mph) or faster, the speed limit sign is displayed when any one of the following conditions are met.*
  - *The Forward Sensing Camera (FSC) recognizes a speed limit sign as a sign targeted for your vehicle and the vehicle passes it.*

- *The speed limit sign stored in the navigation system is read (if the Forward Sensing Camera (FSC) does not recognize a speed limit sign).*

- *In the following cases, display of the speed limit sign stops.*
  - *The Forward Sensing Camera (FSC) recognizes the speed limit sign and the vehicle is driven for a certain distance after passing the sign.*
  - *Each sensor determines that the vehicle has changed direction of travel.*
  - *The Forward Sensing Camera (FSC) recognizes a new speed limit sign which differs from the previous one (displays the new speed limit sign).*
  - *The speed limit sign stored in the navigation system is not read within a certain period of time (if the Forward Sensing Camera (FSC) does not recognize a speed limit sign, the speed limit sign stored in the navigation system is displayed).*
  - *The vehicle speed exceeds the displayed speed limit sign by 30 km/h (19 mph) or more after a certain period of time has elapsed since the speed limit sign was displayed. (Except when there is information for the speed limit sign in the navigation system)*

Do not enter signs

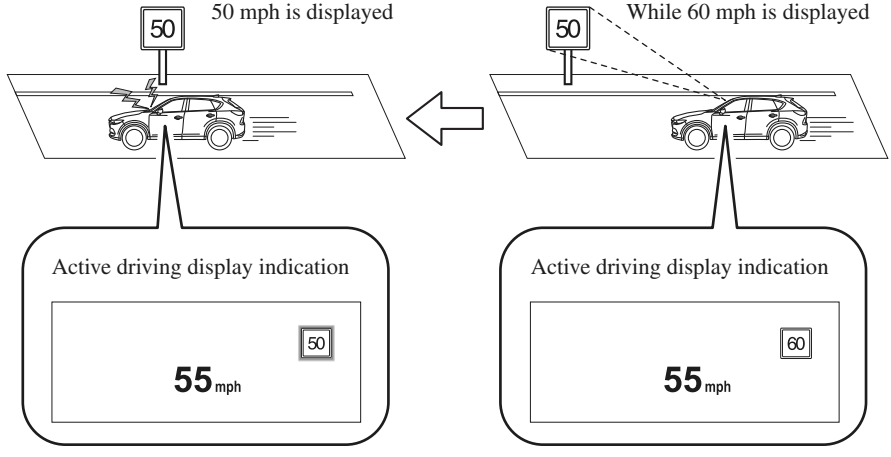
- *A do not enter sign is displayed when all of the following conditions are met.*
  - *The vehicle speed is about 60 km/h (37 mph) or slower.*
  - *The Forward Sensing Camera (FSC) recognizes a do not enter sign as a sign targeted for your vehicle and the vehicle passes it.*
- *When the Forward Sensing Camera (FSC) recognizes the do not enter sign and a certain period of time has elapsed since the vehicle passed the sign, display of the do not enter sign stops.*

Stop sign

- *A stop sign is displayed when all of the following conditions are met:*
  - *The vehicle speed is about 30 km/h (19 mph) or slower.*
  - *The Forward Sensing Camera (FSC) recognizes a stop sign as a sign targeted for your vehicle.*
- *When a certain period of time has elapsed since the stop sign was displayed, display of the stop sign stops.*

▼ Excessive Speed Warning

If the vehicle speed exceeds the speed limit sign displayed in the active driving display, the area around the speed limit sign flashes 3 times in amber and the warning sound is activated 3 times at the same time. If the vehicle speed continues to exceed the displayed speed limit sign, the indication stops flashing and remains on. Check the surrounding conditions and adjust the vehicle speed to the legal speed using the appropriate operation such as depressing the brake pedal.



The excessive speed warning is initially set to inoperable. If you want to activate the excessive speed warning, change the setting in the personalization features. In addition, the warning pattern and the warning activation timing differ depending on the setting contents. Refer to the Settings section in the Mazda Connect Owner's Manual.

Warning pattern

- Off: The excessive speed warning is not activated.
- Visual: The area around the speed limit sign displayed in the display flashes 3 times in amber, and if the vehicle speed continues to exceed the displayed speed limit sign, the indication stops flashing and remains on.
- Audio & Visual: The area around the speed limit sign displayed in the display flashes 3 times in amber and the warning sound is activated 3 times at the same time. If the vehicle speed continues to exceed the displayed speed limit sign, the indication stops flashing and remains on.

Warning activation timing

- + 0: If the vehicle speed exceeds the speed limit sign displayed in the display, the excessive speed warning is activated.
- + 5: If the vehicle speed exceeds the speed limit sign displayed in the display by 5 km/h (3 mph), the excessive speed warning is activated.

- + 10: If the vehicle speed exceeds the speed limit sign displayed in the display by 10 km/h (5 mph), the excessive speed warning is activated.

NOTE

- *In the following cases, the excessive speed warning stops operating.*
  - *The vehicle speed is less than the speed of the displayed speed limit sign. (If the activation timing for the excessive speed warning is changed in the personalization features, the excessive speed warning stops operating when the vehicle speed is less than the changed vehicle speed.*
  - *A speed limit sign indication has been updated and the vehicle speed is lower than the updated indication.*
  - *Display of the speed limit sign stops.*
- *The warning indication is displayed at the same time the excessive speed warning sound is activated if the vehicle speed exceeds the speed indicated on the speed limit sign. Refer to Warning Sound is Activated on page 7-39.*
- *If the Forward Sensing Camera (FSC) incorrectly recognizes the actual speed limit sign at a lower speed, the excessive speed alarm is activated even if the vehicle is driven at the legal speed.*

Distance Recognition Support System (DRSS)*

The DRSS measures the distance between your vehicle and a vehicle ahead using a radar sensor (front) while the vehicle speed is about 30 km/h (19 mph) or faster, and if your vehicle approaches a vehicle ahead more closely than what is appropriate for maintaining distance between the vehicles according to the vehicle speed, a notification in the multi-information display is indicated to advise you to keep a safe distance from the vehicle ahead.

⚠ WARNING

Do not rely completely on the DRSS and always drive carefully:
The ability to detect a vehicle ahead is limited depending on the type of vehicle ahead, the weather conditions, and the traffic conditions. Therefore, if the accelerator and brake pedals are not operated correctly it could lead to an accident. Always verify the safety of the surrounding area and depress the brake pedal or accelerator pedal while keeping a safer distance from vehicles ahead or on-coming vehicles.

NOTE

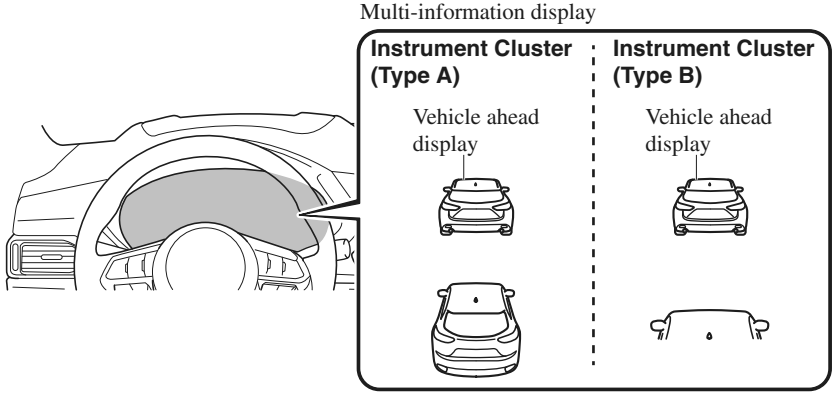
- *The DRSS operates when all of the following conditions are met:*
  - *The ignition is switched ON.*
  - *The DRSS is on.*
  - *The selector lever is in a position other than reverse (R).*
  - *The vehicle speed is 30 km/h or faster (19 mph or faster).*
- *The objects which activate the system are 4-wheeled vehicles.*
- *The DRSS may also operate in the presence of motorcycles and bicycles.*
- *The DRSS may not operate normally under the following conditions:*
  - *The Dynamic Stability Control (DSC) has a malfunction.*
  - *The vehicle ahead is traveling at an extremely slow speed.*
- *The system does not operate with the following objects:*
  - *Vehicles approaching in the opposite direction.*
  - *Stationary objects (stopped vehicles, obstructions)*
- *The DRSS can be set to inoperable.*
  Refer to the Settings section in the Mazda Connect Owner's Manual.

▼ Indication on Display

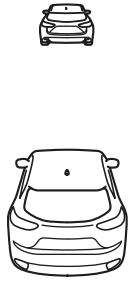
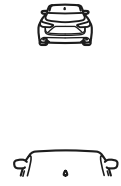
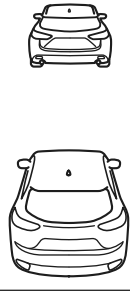
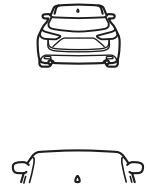
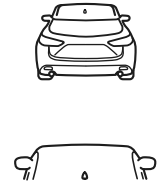
The DRSS operation status is indicated in the multi-information display. Regarding malfunctions, check the vehicle conditions or have it inspected by an Authorized Mazda Dealer according to the content of the displayed message.

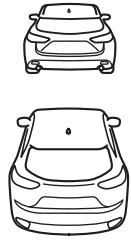
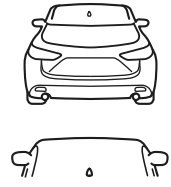
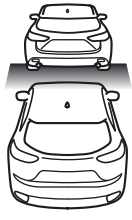
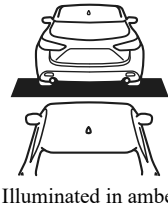
NOTE

- *When the ignition is switched off, the operation status before the system was turned off is maintained. For example, if the ignition is switched off with the DRSS operable, the system will be operable when the ignition is switched ON the next time.*



Distance-between-vehicles guide lines*1

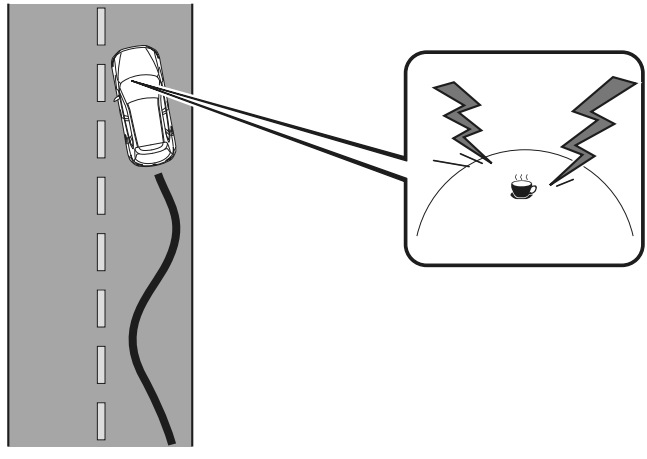
Indication on display		Distance between vehicles guide lines (During travel at about 40 km/h (25 mph)	Distance between vehicles guide lines (During travel at about 80 km/h (50 mph)
Multi-information display			
Instrument cluster (Type A)	Instrument cluster (Type B)		
		About 25 m (82 ft)	About 50 m (164 ft)
		About 20 m (66 ft)	About 40 m (131 ft)
		About 15 m (49 ft)	About 30 m (98 ft)

Indication on display		Distance between vehicles guide lines (During travel at about 40 km/h (25 mph)	Distance between vehicles guide lines (During travel at about 80 km/h (50 mph)
Multi-information display			
Instrument cluster (Type A)	Instrument cluster (Type B)		
		About 10 m (33 ft)	About 20 m (66 ft)
 Illuminated in amber	 Illuminated in amber	About 10 m (32 ft) or less	About 20 m (65 ft) or less

*1 The distance between vehicles differs depending on vehicle speed.

Driver Attention Alert (DAA)*

The DAA is a system which detects driver fatigue and decreased attentiveness, and encourages the driver to take a rest.
When the vehicle is driven inside traffic lane lines at about 65 to 140 km/h (40 to 87 mph), the DAA estimates the amount of accumulated fatigue and decreased attentiveness of the driver based on the information from the Forward Sensing Camera (FSC) and other vehicle information, and encourages the driver to take a rest using an indication on the multi-information display and a warning sound.
Use the DAA on expressways or highways.
Refer to Forward Sensing Camera (FSC) on page 4-234.



⚠ WARNING

Do not rely completely on DAA and always drive carefully:
The DAA detects driver fatigue and decreased attentiveness and encourages the driver to take a rest, however, it is not designed to prevent the vehicle from straying. If you rely too much on the DAA it could lead to an accident. Drive carefully and operate the steering wheel appropriately.
In addition, the system may not be able to detect driver fatigue and decreased attentiveness correctly depending on the traffic and driving conditions. The driver must take sufficient rest in consideration of safer driving.

NOTE

- *The DAA operates when all of the following conditions are met.*

・The vehicle speed is about 65 to 140 km/h (40 to 87 mph).
・The system detects white (yellow) lane lines.
・The system has completed learning of the driver's driving data.

・The DAA does not operate under the following conditions.

・The vehicle speed is less than about 65 km/h (40 mph).
・The vehicle speed exceeds about 140 km/h (87 mph)
・The vehicle is making a sharp turn.
・The vehicle is changing lanes.
・The system cannot detect white (yellow) lane lines.

・The DAA may not operate normally under the following conditions.

・White (yellow) lane lines are less visible because of dirt or fading/patchiness.
・The vehicle is jolted or swayed continuously by strong winds or rough roads.
・The vehicle is driven aggressively.
・When making frequent lane changes.

・The DAA detects driver fatigue and decreased attentiveness based on the driving data when the vehicle is driven at about 65 to 140 km/h (40 to 87 mph) for about 20 minutes. The driving data will be reset under the following conditions.

・The vehicle is stopped for 15 minutes or longer.
・The vehicle is driven at less than about 65 km/h (40 mph) for about 30 minutes.
・The ignition is switched off.

・After the DAA has displayed the first message encouraging rest, it does not display the next one until 45 minutes have passed.

▼ Driver Attention Alert (DAA) Display (White)

When the system detects driver fatigue or decreased attentiveness, it activates the warning sound and displays an alert in the multi-information display.



Driver Attention Alert

Time for a break

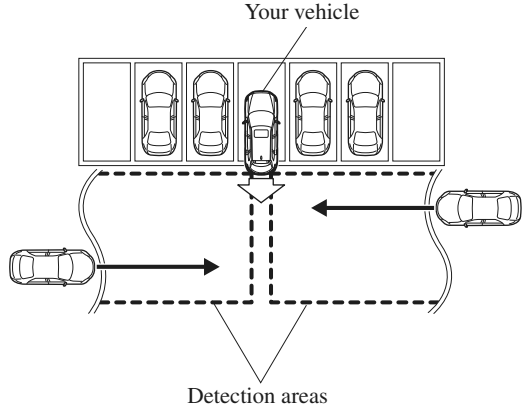
▼ Canceling Driver Attention Alert (DAA)

The DAA can be set to not activate.

Refer to the Settings section in the Mazda Connect Owner's Manual.

Rear Cross Traffic Alert (RCTA)*

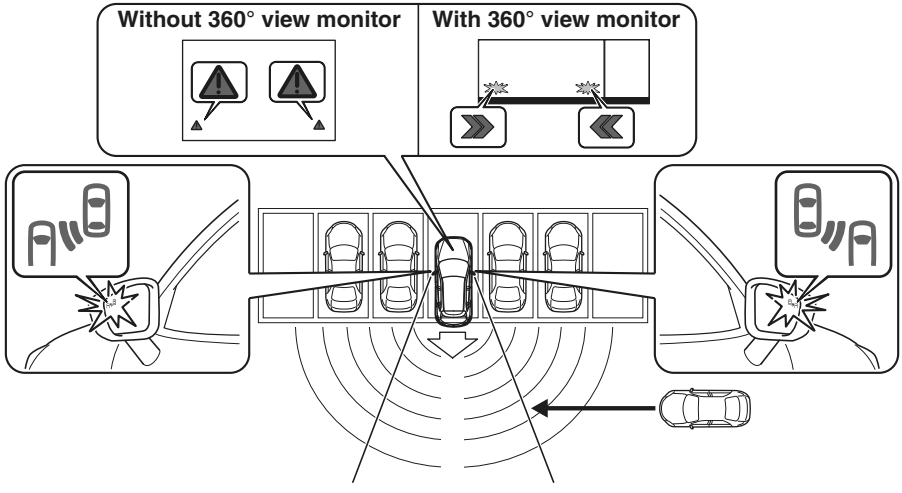
The RCTA system is designed to assist the driver in checking the area to the rear of the vehicle on both sides while the vehicle is reversing by alerting the driver to the presence of vehicles approaching the rear of the vehicle.
The RCTA system detects vehicles approaching from the rear left and right sides of the vehicle, and the rear of the vehicle while the vehicle is being reversed out of a parking space, and notifies the driver of possible danger using the Blind Spot Monitoring (BSM) warning indicator lights and the warning buzzer.



RCTA operation

1. The RCTA system operates when the selector lever is shifted to the reverse (R) position.
2. If there is the possibility of a collision with an approaching vehicle, the Blind Spot Monitoring (BSM) warning indicator lights flashes and the warning beep is activated simultaneously.
   (With rear view monitor)
   The RCTA warning indication in the rearview monitor also synchronizes with the Blind Spot Monitoring (BSM) warning indicator light on the door mirrors.
   (With 360° view monitor)

The RCTA warning indication in the 360° view monitor also synchronizes with the Blind Spot Monitoring (BSM) warning indicator light on the door mirrors.



⚠ WARNING

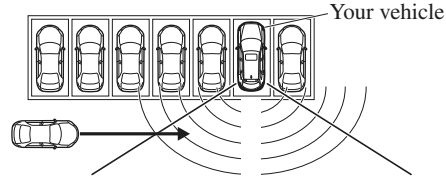
Always check the surrounding area visually before actually putting the vehicle in reverse:
The system is only designed to assist you in checking for vehicles at the rear when putting the vehicle in reverse. Due to certain limitations with the operation of this system, the Blind Spot Monitoring (BSM) warning indicator lights may not flash or it might be delayed even though a vehicle is behind your vehicle. Always make it your responsibility as a driver to check the rear.

NOTE

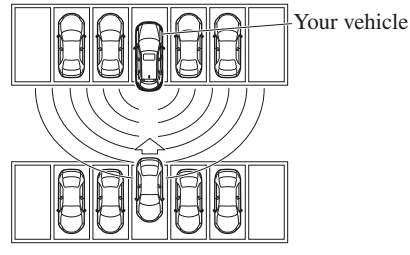
- *In the following cases, the Blind Spot Monitoring (BSM) OFF indicator light turns on and operation of the system is stopped. If the Blind Spot Monitoring (BSM) OFF indicator light remains illuminated, have the vehicle inspected at an Authorized Mazda Dealer as soon as possible.*
  - *Some problem with the system including the Blind Spot Monitoring (BSM) warning indicator lights has occurred.*
  - *A large deviation in the installation position of a radar sensor (rear) on the vehicle has occurred.*
  - *There is a large accumulation of snow or ice on the rear bumper near a radar sensor (rear).*
  - *Driving on snow-covered roads for long periods.*

- *The temperature near the radar sensors becomes extremely hot due to driving for long periods on slopes during the summer.*
- *The lead-acid battery voltage has decreased.*

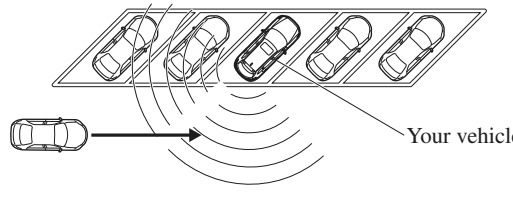
- *Under the following conditions, the radar sensors (rear) cannot detect target objects or it may be difficult to detect them.*
  - *The vehicle speed when reversing is about 15 km/h (9 mph) or faster.*
  - *The radar sensor (rear) detection area is obstructed by a nearby wall or parked vehicle. (Reverse the vehicle to a position where the radar sensor detection area is no longer obstructed.)*



  - *A vehicle is approaching directly from the rear of your vehicle.*



  - *The vehicle is parked at an angle.*



  - *Directly after the Blind Spot Monitoring (BSM) system becomes operable using the personalization feature.*
  - *Radio wave interference from a radar sensor equipped on a nearby parked vehicle.*

- *In the following cases, it may be difficult to view the illumination/flashing of the Blind Spot Monitoring (BSM) warning indicator lights equipped on the door mirrors.*
  - *Snow or ice adheres to the door mirrors.*
  - *The front door glass is fogged or covered in snow, frost or dirt.*

- *Turn off the RCTA system while pulling a trailer or while an accessory such as a bicycle carrier is installed to the rear of the vehicle. Otherwise, the radio waves emitted by the radar will be blocked causing the system to not operate normally.*

Mazda Radar Cruise Control with Stop & Go function (MRCC with Stop & Go function)*

The MRCC with Stop & Go function system is designed to maintain headway control*1 with a vehicle ahead according to your vehicle's speed using a radar sensor (front) to detect the distance to the vehicle ahead and a preset vehicle speed without you having to use the accelerator or brake pedals.

*1 Headway Control: Control of the distance between your vehicle and the vehicle ahead detected by the Mazda Radar Cruise Control (MRCC) system.

Additionally, if your vehicle starts closing in on the vehicle ahead such as if the vehicle ahead brakes suddenly, a warning sound and a warning indication in the display are activated simultaneously to alert you to maintain a sufficient distance between the vehicles.
If the vehicle ahead stops while you are following behind it, your vehicle will stop and be held stopped automatically (stop hold control), and headway control will resume when you resume driving the vehicle such as by pressing the RES switch.
Also refer to the following before using the MRCC with Stop & Go function.

· i-stop (page 4-11)
· AUTOHOLD (page 4-103)
· Forward Sensing Camera (FSC) (page 4-234)
· Radar sensor (front) (page 4-239)

⚠ WARNING

Do not rely completely on the MRCC with Stop & Go function:
The MRCC with Stop & Go function system has detection limitations depending on the type of vehicle ahead and its conditions, the weather conditions, and the road conditions. Additionally, the system may be unable to decelerate sufficiently to avoid hitting the vehicle ahead if the vehicle ahead applies the brakes suddenly or another vehicle cuts into the driving lane, which could result in an accident.
Always drive carefully and verify the surrounding conditions and depress the brake pedal or accelerator pedal while keeping a safer distance from vehicles ahead or on-coming vehicles.

Do not use the MRCC with Stop & Go function system in the following locations, using the MRCC with Stop & Go function system at the following locations may result in an unexpected accident:

- *General roads other than highways (Driving under these conditions using the MRCC with Stop & Go function system is not possible.)*
- *Roads with sharp curves and where vehicle traffic is heavy and there is insufficient space between vehicles.*

- *Roads where frequent and repetitive acceleration and deceleration occur (Driving under these conditions using the MRCC with Stop & Go function system is not possible).*
- *When entering and exiting interchanges, service areas, and parking areas of highways (If you exit a highway while headway control is in use, the vehicle ahead will no longer be tracked and your vehicle may accelerate to the set speed).*
- *Slippery roads such as ice or snow-bound roads (Tires could spin causing you to lose vehicle control, or the stop hold control may not operate.)*
- *Long, descending slopes (to maintain distance between vehicles, the system automatically and continuously applies the brakes which could result in the loss of brake power.)*
- *Slopes with a steep gradient (The vehicle ahead may not be detected correctly, your vehicle may slide while stopped by the stop hold control, and it may accelerate suddenly after it starts moving.)*

For safety purposes, switch the MRCC with Stop & Go function system off when it is not being used.

Do not get out of the vehicle while the stop hold control is operating:
Getting out of the vehicle while the stop hold control is operating is dangerous as the vehicle may move unexpectedly and result in an accident. Before getting out of the vehicle, switch the MRCC with Stop & Go function system off, shift the selector lever to the P position, and apply the parking brake.

⚠ CAUTION

If your vehicle is towed or you are towing something, switch the MRCC with Stop & Go function system off to prevent a mis-operation.

NOTE

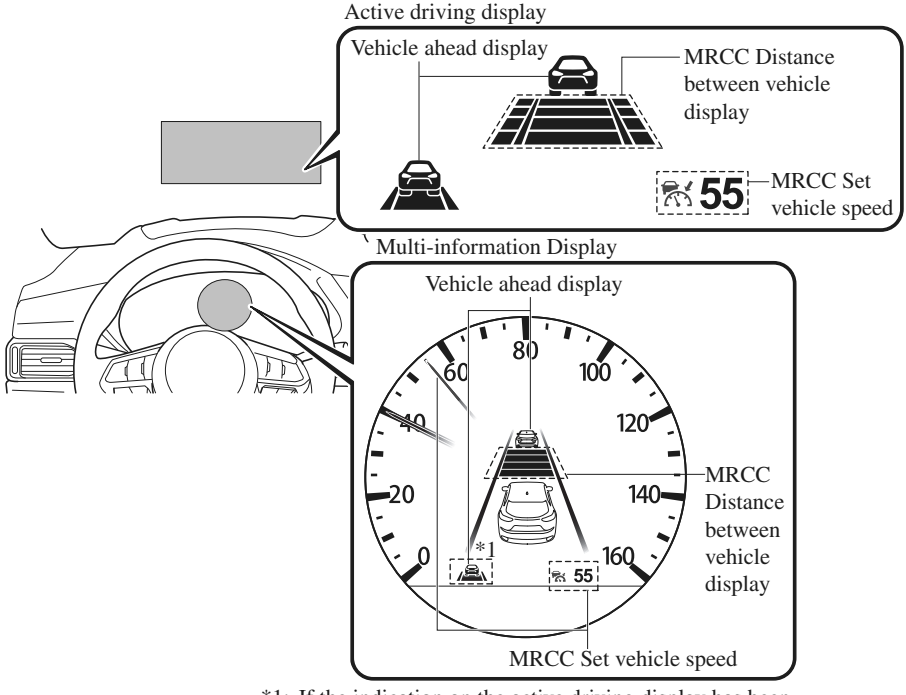
- *The MRCC with Stop & Go function system does not detect the following as physical objects.*
  - *Vehicles approaching in the opposite direction*
  - *Pedestrians*
  - *Stationary objects (stopped vehicles, obstructions)*
  - *If a vehicle ahead is traveling at an extremely low speed, the system may not detect it correctly.*
- *During headway control travel, do not set the system for detection of two-wheeled vehicles such as motorcycles and bicycles.*
- *Do not use the MRCC with Stop & Go function system under conditions in which close proximity warnings are frequently activated.*

- *During headway control travel, the system accelerates and decelerates your vehicle in conjunction with the speed of the vehicle ahead. However, if it is necessary to accelerate for a lane change or if the vehicle ahead brakes suddenly causing you to close in on the vehicle rapidly, accelerate using the accelerator pedal or decelerate using the brake pedal depending on the conditions.*
- *While the MRCC with Stop & Go function system is in use, it does not cancel even if the selector lever is operated and any intended engine braking does not occur. If deceleration is required, lower the set speed or depress the brake pedal.*
- *The sound of the automatic brakes operating may be heard, however, it does not indicate a problem.*
- *The brake lights turn on while the MRCC with Stop & Go function automatic braking is operating.*

▼ Mazda Radar Cruise Control with Stop & Go function (MRCC with Stop & Go function) Display Indication

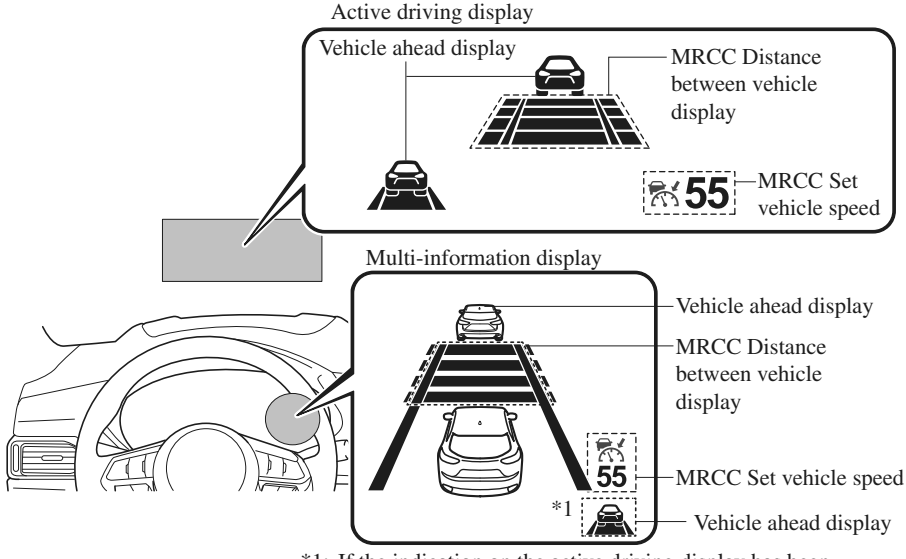
The MRCC with Stop & Go function setting status and operation conditions are indicated on the multi-information display and the active driving display.

Instrument cluster (Type A)



*1: If the indication on the active driving display has been turned off using the personalization features, the indication is displayed on the multi-information display.

Instrument cluster (Type B)



*1: If the indication on the active driving display has been turned off using the personalization features, the indication is displayed on the multi-information display.

If there is a problem with the MRCC with Stop & Go function system, a message is displayed on the multi-information display. Check the center display to verify the problem and then have your vehicle inspected by an Authorized Mazda Dealer.

▼ Close Proximity Warning

If your vehicle rapidly closes in on the vehicle ahead because the vehicle ahead applies the brakes suddenly while you are traveling in headway control, the warning sound activates and the brake warning is indicated in the display. Always verify the safety of the surrounding area and depress the brake pedal while keeping a safer distance from the vehicle ahead. Additionally, keep a safer distance from the vehicles behind you.

BRAKE!

NOTE

In the following cases, the warnings and brakes may not operate even if your vehicle starts closing in on the vehicle ahead.

- *You are driving your vehicle at the same speed as the vehicle ahead.*
- *Directly after the MRCC with Stop & Go function system has been set.*
- *Directly after the accelerator pedal is released.*
- *Another vehicle cuts into the driving lane.*

▼ Setting the System

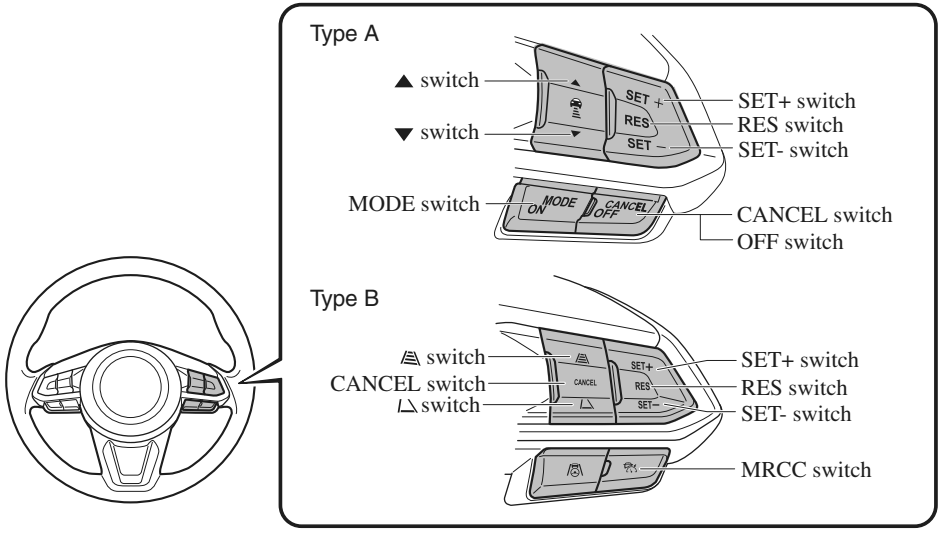
The MRCC with Stop & Go function system operates when all of the following conditions are met.

- Vehicle speed is 0 km/h (0 mph) to 145 km/h (90 mph)
- The MRCC with Stop & Go function is turned on.
- The brake pedal is not depressed.
- The parking brake is released (Electric Parking Brake (EPB) indicator light is turned off).
- There is no problem with the DSC.
- All the doors are closed.
- The driver's seat belt is fastened.
- The selector lever is in the drive (D) position or manual (M) position (manual mode).

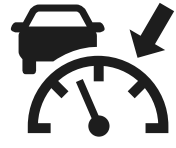
NOTE

- *In the following cases, the MRCC with Stop & Go function system is canceled when the vehicle is traveling at 30 km/h (20 mph) or less and "Mazda Radar Cruise Control disabled under 30 km/h (20 mph)" is displayed in the multi-information display.*
  - *The Forward Sensing Camera (FSC) cannot detect target objects (There is problem with the Forward Sensing Camera (FSC) or windshield is dirty).*
  - *There is a problem with the stop hold control function.*
  - *There is a problem with the Electric Parking Brake (EPB).*
- *It may not be possible to set the MRCC with Stop & Go function system directly after starting the engine, while the DSC operation is being checked.*

Turning on the system



Steering wheel (Type A)
When the MODE switch is pressed once, the MRCC with Stop & Go function system turns on, and the MRCC with Stop & Go function main indication (white) turns on and the vehicle speed and the distance between the vehicles while in headway control can be set.
Steering wheel (Type B)
When the MRCC switch is pressed once, the MRCC with Stop & Go function system turns on, and the MRCC with Stop & Go function main indication (white) turns on and the vehicle speed and the distance between the vehicles while in headway control can be set.



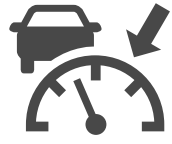
In addition, the MRCC with Stop & Go function system display indication is displayed on the multi-information display and the active driving display at the same time.

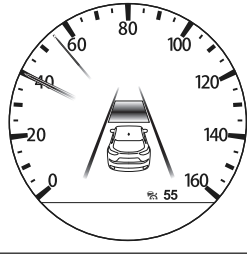
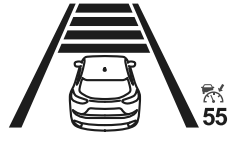
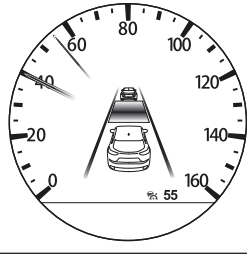
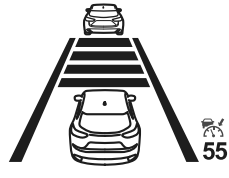
NOTE

- *If the ignition is switched off while the MRCC with Stop & Go function system is operating, the system will be operable when the ignition is switched ON the next time.*
- *The MRCC with Stop & Go function can switch to the cruise control function. Refer to Cruise Control Function on page 4-161.*

How to set the speed

1. Adjust the vehicle speed to the desired setting using the accelerator pedal.
2. Headway control begins when the SET+ or SET− switch is pressed.
   The set speed and the inter-vehicle distance display filled with white lines is displayed.
   The MRCC with Stop & Go function main indication (white) switches to the MRCC with Stop & Go function set indication (green) at the same time.



Travel status	Indication on multi-information display		Indication on active driving display
	Type A	Type B	
During travel at constant speed			
During travel under head-way control			 

NOTE

- *If a vehicle ahead is detected while traveling at a constant speed, the vehicle-ahead indication is displayed and headway control is performed. Additionally, when a vehicle ahead is no longer detected, the vehicle-ahead indication turns off and the system switches back to travel at constant speed.*
- *The lowest possible speed which can be set on the MRCC with Stop & Go function system is 30 km/h (19 mph).*

・*Headway control is not possible if the vehicle ahead is driving faster than your vehicle's set speed. Adjust the system to the desired vehicle speed using the accelerator pedal.*

How to set the distance-between-vehicles during headway control

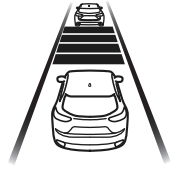
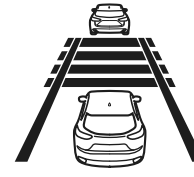
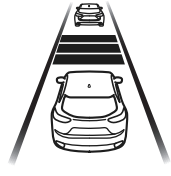
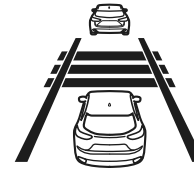
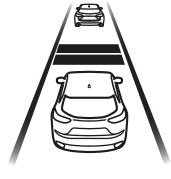
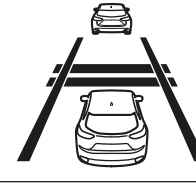
Steering wheel (Type A)

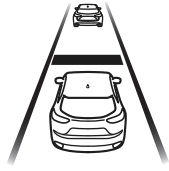
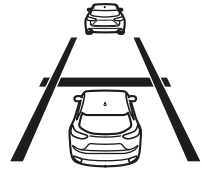
The distance-between-vehicles is set to a shorter distance by pressing the ▼ switch. The distance-between-vehicles is set to a longer distance by pressing the ▲ switch. The distance-between-vehicles can be set to 4 levels; Long, medium, short, and extremely short distance.

Steering wheel (Type B)

The distance-between-vehicles can be set to 4 levels; Long, medium, short, and extremely short distance.

The distance-between-vehicles is set to a shorter distance by pressing the switch. The distance-between-vehicles is set to a longer distance by pressing the switch.

Distance-between-vehicles guideline (at 80 km/h (50 mph) vehicle speed)	Indication on multi-information display		Indication on active driving display*1
	Type A	Type B	
Long (about 50 m (164 ft))			
Medium (about 40 m (131 ft))			
Short (about 30 m (98 ft))			

Distance-between-vehicles guideline (at 80 km/h (50 mph) vehicle speed)	Indication on multi-information display		Indication on active driving display*1
	Type A	Type B	
Extremely short (about 25 m (82 ft))			

*1 Displays a pop-up image in the active driving display only when the driver operates the switch.

NOTE

- *The distance-between-vehicles differs depending on the vehicle speed, and the slower the vehicle speed, the shorter the distance.*
- *When the ignition is switched to ACC or OFF and then the engine is started again, the system automatically sets the distance-between-vehicles to the previous setting.*

How to change the set vehicle speed

To accelerate/decelerate using the SET switch

When you press the SET+ switch, the vehicle accelerates and when you press the SET− switch, it decelerates.

Short press	1 km/h (1 mph)
Long press	10 km/h (5 mph)

NOTE

For example, the set vehicle speed is changed by pressing the SET switch four times as follows:
The vehicle speed accelerates or decelerates by 4 km/h (4 mph).

To increase speed using accelerator pedal

Depress the accelerator pedal and press and release the SET+ switch or SET− switch at the desired speed. If the switch is not operated, the system returns to the set speed after you release your foot from the accelerator pedal.

⚠ CAUTION

The warnings and brake control do not operate while the accelerator pedal is depressed.

NOTE

- *The setting speed can be changed by operating the SET+ switch or SET− switch during stop hold control.*
- *When accelerating using the SET+ switch while in headway control, the set vehicle speed can be adjusted but acceleration is not possible. If there is no longer a vehicle ahead, acceleration continues until reaching the set vehicle speed. For the set vehicle speed, check the set vehicle speed indication in the display.*

- *When depressing the accelerator pedal, the inter-vehicle distance indication in the display changes to the white-line indication.*

Canceling the system

When the following operations are performed, the MRCC with Stop & Go function system is canceled, and the MRCC with Stop & Go function set indication (green) switches to the MRCC with Stop & Go function main indication (white) at the same time.

- The CANCEL switch is pressed.
- The brake pedal is depressed.
- The parking brake is applied.
- The selector lever is in the P (Park), N (Neutral), or R (Reverse) position.

Under the following conditions, the MRCC with Stop & Go function cancel indication is displayed in the multi-information display and a single beep sound is heard.

- The DSC has operated.
- The Smart Brake Support (SBS) has operated.
- The Smart City Brake Support [Forward] (SCBS F) or Advanced Smart City Brake Support (Advanced SCBS) has operated.
- When traveling on a downslope for a long period of time.
- There is a problem with the system.
- The engine has stalled.
- Any of the doors is opened.
- The driver's seat belt is unfastened.
- The parking brake is automatically applied during stop hold control.
- The radar sensor (front) cannot detect target objects (during rain, fog, snow or other inclement weather conditions, or when the radiator grille is dirty).

Resuming control

If the MRCC with Stop & Go function system is canceled, you can resume control at the previously set speed by pressing the RES switch and after all of the operation conditions have been met.

NOTE

If the set speed is not indicated in the display, the control does not resume even if the RES switch is pressed.

Turning off the system

Press the CANCEL switch 2 times while the MRCC with Stop & Go function system is operating to switch off the system.

▼ Stop Hold Control

While in headway control using the MRCC with Stop & Go function system, your vehicle will stop when a vehicle ahead stops. When the vehicle is stopped and the stop hold control operates, the MRCC with Stop & Go function indicator light turns on.



NOTE

- *If the MRCC with Stop & Go function system is canceled during stop hold control, the vehicle is held in its stopped position. The stop hold control can be canceled by performing one the following actions.*
  - *Press the accelerator pedal and resume driving the vehicle.*
  - *While forcefully depressing the brake, switch the MRCC with Stop & Go function system off.*
- *The parking brake is automatically applied and the vehicle is held in its stopped position when 10 minutes have elapsed since the stop hold control operated. At this time, the MRCC with Stop & Go function system is canceled.*
- *If the i-stop operation conditions are met during stop hold control, the engine stops even though the brake pedal is not depressed.*
  Refer to i-stop on page 4-11.
- *The brake lights turn on during stop hold control.*

To resume driving

After the vehicle ahead starts moving while your vehicle is stopped under stop hold control, press the RES switch or depress the accelerator pedal to cancel the stop hold control and resume driving.

NOTE

- *When you resume driving by pressing the RES switch, your vehicle does not start moving until the distance between your vehicle and the vehicle ahead lengthens to the specified distance or farther.*
- *The engine restarts automatically when any of the actions to resume driving are performed while i-stop is operating.*
- *If the MRCC with Stop & Go function is temporarily canceled during stop hold control, you cannot resume driving by pressing the RES switch when there are no vehicles in front of your vehicle. Depress the accelerator pedal and resume driving the vehicle.*

- *If the vehicle ahead starts moving within 3 seconds after your vehicle is stopped by the stop hold control, headway control will resume even if you do not resume driving your vehicle, such as by depressing the accelerator pedal.*

Resume driving information

If you do not resume driving within a few seconds after the vehicle ahead starts moving, the multi-information display vehicle-ahead indication flashes to urge the driver to resume driving.

▼ Cruise Control Function

While this function is operating, the headway control operation is canceled and only the cruise control function operates. The vehicle speed can be set more than about 25 km/h (16 mph).
Use the cruise control function on expressways and other highways which do not require a lot of repeated acceleration and deceleration.

⚠ WARNING

Do not use the cruise control function in the following locations:
Otherwise, it could lead to an accident.

- *Roads with sharp curves and where vehicle traffic is heavy and there is insufficient space between vehicles. (Driving under these conditions using the cruise control function is not possible)*
- *Steep down slopes (Set speed may be exceeded because sufficient engine braking cannot be applied)*
- *Slippery roads such as ice or snow-bound roads (Tires could spin causing you to lose vehicle control)*

Always drive carefully:
The warnings and brake control will not operate after the headway control function is canceled and the system is switched to only the cruise control function. Depress the brake pedal to decelerate according to the surrounding conditions while keeping a safer distance from the vehicle ahead and always driving carefully.

Switching to cruise control function

Steering wheel (Type A)
When the MODE switch is pressed until the system switches to the cruise main indication (white) while the MRCC with Stop & Go function system is turned on, the system switches to the cruise control function.
Steering wheel (Type B)
Use Mazda Connect to switch to the cruise control function.
Refer to the Settings section in the Mazda Connect Owner's Manual.

When the system switches to the cruise control function, the indicator and multi-information display notify the driver as follows:

- The MRCC with Stop & Go function set indication (green) or the MRCC with Stop & Go function main indication

(white) is turned off, and the cruise main indication (white) is turned on.
- A message is displayed in the multi-information display.

⚠ WARNING

Always turn off the cruise control function when it is not in use:
Leaving the cruise control function turned on when it is not in use is dangerous as it could operate unexpectedly, resulting in an accident.

How to set the speed

Adjust the system to the desired vehicle speed using the accelerator pedal.
When the SET+ or SET− switch is pressed, the cruise set indication (green) is turned on and cruise control begins.

NOTE

- *The system may not be able to maintain the set speed constantly depending on driving conditions such as steep up or down slopes.*
- *The speed will continue increasing while the SET+ switch is pressed and held. The speed will continue decreasing while the SET− switch is pressed and held.*

How to increase the set speed

The set speed can be increased using the following operations:

To increase speed using the SET+ switch

Press and hold the SET+ switch and release the switch at the desired speed.

The set speed can be adjusted incrementally (1 km/h (1 mph) increments) by pressing the switch and releasing it immediately. For example, if the switch is pressed 4 times, the set speed increases by about 4 km/h (4 mph).

To increase speed using accelerator pedal

Depress the accelerator pedal and press the SET+ or SET− switch at the desired speed.
If the switch is not operated, the system returns to the set speed after you release your foot from the accelerator pedal.

How to Decrease the Set Speed

Press the SET− switch continuously and release the switch at the desired speed.
The set speed can be adjusted incrementally (1 km/h (1 mph) increments) by pressing the switch and releasing it immediately. For example, if the switch is pressed 4 times, the set vehicle speed decreases by about 4 km/h (4 mph).

Canceling the function

When the cruise control function is canceled and the RES switch is pressed while the vehicle speed is 25 km/h (16 mph) or faster, the speed returns to the original set speed.

Canceling using CANCEL switch

When the CANCEL switch is pressed once, the cruise control function is cancelled.

Automatically cancel

The cruise control function is canceled automatically in the following cases.

- The brake pedal is depressed.
- The parking brake is applied.
- The selector lever is shifted to P or N position.

NOTE

- *If the vehicle speed decreases by about 15 km/h (9.4 mph) or more than the set speed, the cruise control function may be canceled.*
- *When the vehicle speed is less than 21 km/h (13 mph), the cruise control function is canceled. In this case, the vehicle speed will not return to the original set speed even if the vehicle is accelerated to 25 km/h (16 mph) or higher and the RES switch is pressed. Reset the cruise control function.*

Cruising & Traffic Support (CTS)*

The CTS is a system which consists of a headway control function and a steering assist function for reducing driver fatigue during traffic jams when driving on expressways or highways.
This system performs headway control to maintain a constant distance between your vehicle and a vehicle ahead at a preset vehicle speed without you having to use the accelerator or brake pedal. Even further, with the steering assist function, when vehicle lane lines are detected, the function assists the driver in keeping the vehicle within the lane lines. If lane lines are not detected, the function provides the driver driving assistance in keeping the vehicle along the motion path with the vehicle ahead.

⚠ WARNING

Do not rely completely on CTS:

- *The CTS is not an automated driving system. In addition, the functions have limitations. Do not rely completely on the system and always stay on course using the steering wheel.*
- *Set a vehicle speed within the speed limit according to the road conditions and the weather conditions.*
- *The CTS may not be able to detect a vehicle ahead depending on the type of vehicle ahead and its conditions, the weather conditions, and the road conditions. Additionally, the system might be unable to decelerate sufficiently if a vehicle ahead applies the brakes suddenly, another vehicle cuts into the driving lane, or the difference in vehicle speed between your vehicle and the vehicle ahead is larger, which could result in an accident. Check the surrounding conditions and always drive carefully while keeping a safe distance from vehicles ahead and on-coming vehicles.*

For the purposes of safety, switch the CTS off when it is not being used.
Leaving the CTS turned on when it is not in use is dangerous as it could operate unexpectedly, resulting in an accident.

Do not use the CTS under the following conditions. Otherwise, it may result in an accident.

- *General roads other than expressways or highways (Driving under these conditions using the CTS is not possible.)*
- *Roads with sharp curves and where vehicle traffic is heavy with insufficient space between vehicles, or roads where frequent and repetitive acceleration and deceleration occur (Driving under these conditions using the CTS is not possible).*

 *Some models.

- *When entering and exiting interchanges, service areas, and parking areas of expressways (If you exit an expressway while headway control is in use, the vehicle ahead will no longer be tracked and your vehicle may accelerate to the set speed).*
- *Slippery roads such as icy or snow-covered roads and unpaved roads (Tires could spin causing you to lose vehicle control, or the stop hold control may not operate.)*
- *Long, descending slopes (to maintain distance between vehicles, the system automatically and continuously applies the brakes which could result in the loss of brake power.)*
- *Two-wheeled vehicles such as motorcycles or bicycles are ahead.*
- *Slopes with a steep gradient (The vehicle ahead may not be detected correctly, your vehicle may slip while stopped by the stop hold control, or it may accelerate suddenly after it starts moving.)*
- *Driving under bad weather conditions (rain, fog, and snow).*
- *Tires of a different specified size are used, such as a temporary spare tire.*
- *Tires with insufficient tread are used.*
- *The tire pressures are not adjusted to the specified pressure.*
- *The vehicle is being used to tow a camper or boat trailer.*
- *Tire chains are used.*
- *The vehicle is driven on roads with lane lines other than white (yellow) lines, such as an expressway.*

Do not get out of the vehicle while the stop hold control is operating.
Getting out of the vehicle while the stop hold control is operating is dangerous as the vehicle may move unexpectedly and result in an accident. Before getting out of the vehicle, switch the CTS off, apply the parking brake, and then shift the selector lever to the P position.

⚠ CAUTION

Heed the following cautions so that the CTS can operate normally.

- *Turn the system off when the vehicle is running on a chassis roller.*
- *Do not modify the vehicle's suspensions.*
- *Always use wheels of the specified size for the front and rear wheels. Consult an Authorized Mazda Dealer for tire replacement.*

NOTE

- *The headway control does not detect the following as physical objects.*
  - *Vehicles approaching in the opposite direction*

- *Pedestrians*
- *Stationary objects (stopped vehicles, obstructions)*

- *If a vehicle ahead is traveling at an extremely low speed, the system may not detect it correctly.*
- *If there is a structure on the road or an object (such as a monorail) at a low height off the ground in front of the vehicle, the system may operate. Therefore, do not use the CTS.*
- *Do not use the CTS under conditions in which close proximity warnings are frequently activated.*
- *If it is necessary to accelerate for a lane change or the vehicle ahead brakes suddenly causing you to close in on the vehicle rapidly, accelerate using the accelerator pedal or decelerate using the brake pedal depending on the conditions.*
- *While the CTS is in use, any intended engine braking does not occur even if you shift the selector lever. If deceleration is required, lower the vehicle speed setting or depress the brake pedal.*
- *While braking by the CTS control is operating, you might hear an operation sound, however, this does not indicate a problem.*
- *The brake lights turn on while braking by the CTS control is operating, however, they may not turn on while the vehicle is on a down slope at the set vehicle speed or traveling at a constant speed and following a vehicle ahead.*
- *Under the following conditions, the CTS may not be able to detect white (yellow) lines or vehicles ahead correctly and the CTS may not operate normally.*
  - *The forward sensing camera (FSC) cannot recognize the area in front of the vehicle due to soiling or fog.*
  - *The white (yellow) lane lines are less visible because of dirt or paint flaking.*
  - *White (yellow) lane lines or vehicles ahead are less visible because of bad weather (rain, fog, or snow).*
  - *The vehicle is driven on a temporary lane or section with a closed lane resulting from construction where there might be multiple white (yellow) lane lines, or they are interrupted.*
  - *The camera picks up an obscure line, such as a temporary line being used for construction, or because of shade, unmelted snow, or grooves filled with water.*
  - *The road surface is wet and shiny after rain, or there are puddles on the road.*
  - *Heavy luggage is loaded in the luggage compartment or on the rear seat causing the vehicle to tilt.*
  - *A vehicle in front of your vehicle is running near a white (yellow) lane line making it less visible.*
  - *The windshield is dirty or foggy.*
  - *The vehicle is driven through an intersection, a junction, or a fork in the road.*
  - *While white (yellow) lane lines cannot be detected due to road or weather conditions.*
  - *The surrounding brightness suddenly changes such as when entering or exiting a tunnel.*

- *The illumination of the headlights is weakened because of dirt or the optical axis is deviated at night.*
- *Back-light is reflected off the road surface or the road surface is wet and shiny after rain.*
- *The shade of a guardrail parallel to a white (yellow) lane line is cast on the road.*
- *The width of a lane is excessively narrow or wide.*
- *The road is excessively uneven.*
- *The vehicle is shaken after hitting a road bump.*
- *There are various road markings or division lines (lane markings) of various shapes near an intersection.*
- *The area in front of the forward sensing camera (FSC) is soiled or an object that obstructs the field of view is installed.*
- *Exhaust gas from the vehicle in front, sand, snow, and water vapor rising from manholes and grating, and water splashed into the air.*
- *The surroundings are dark such as during the early evening or early morning.*
- *A vehicle ahead with a certain taillight shape.*
- *A vehicle ahead veers off course from your vehicle's line of travel.*
- *A vehicle ahead is driving erratically.*
- *The vehicle is driven on roads with tight curves.*

Headway control function

If a vehicle ahead is detected while traveling at a constant speed, the vehicle-ahead indication is displayed and headway control is performed.

Steering assist function

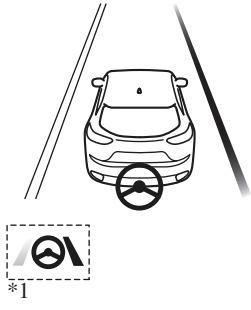
When lane lines are detected, the function assists the driver in keeping the vehicle within the lane lines. If lane lines are not detected, the function provides the driver driving assistance in keeping the vehicle along the motion path with the vehicle ahead.

NOTE

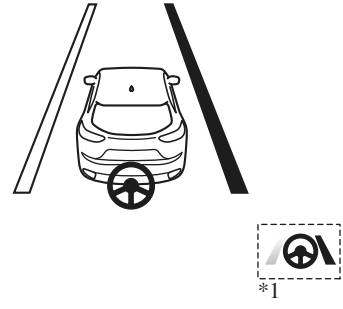
Steering assist limit warning

If the steering assist function cannot keep the vehicle within the lane lines while the steering assist function is operating, a warning sound is activated and a warning is displayed on the multi-information display to urge the driver to operate the steering wheel.

Instrument Cluster (Type A)



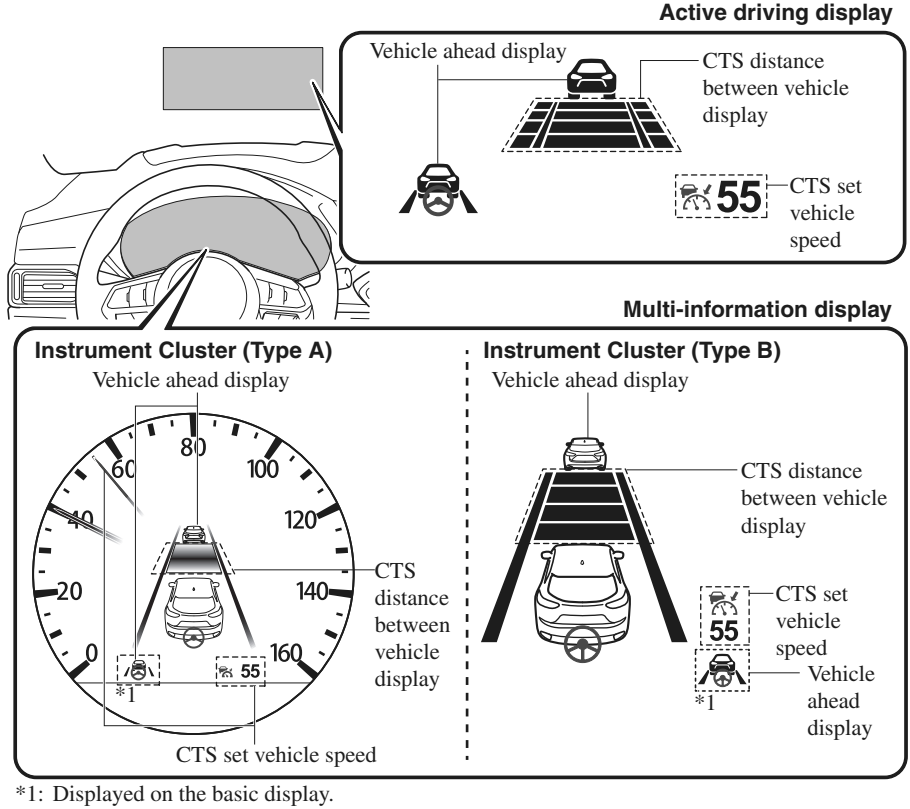
Instrument Cluster (Type B)



*1: Displayed on the basic display.

▼ Cruising & Traffic Support (CTS) Display Indication

The CTS setting status and operation conditions are indicated on the multi-information display and the active driving display.



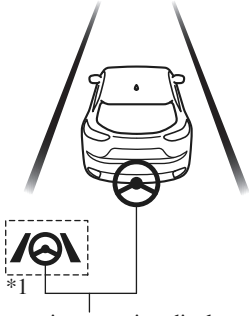
*1: Displayed on the basic display.

Steering assist function display

When the steering assist function operates, the steering assist operation display on the display changes from white to green.

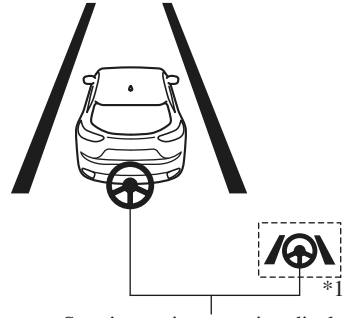
Multi-information display

Instrument Cluster (Type A)



Steering assist operation display

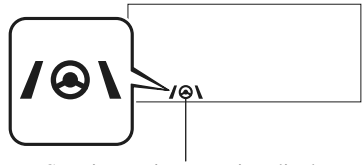
Instrument Cluster (Type B)



Steering assist operation display

*1: Displayed on the basic display.

Active driving display



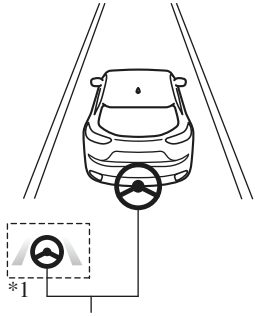
Steering assist operation display

NOTE

You can view the multi-information display to check whether the steering assist is performing controls in conjunction with the traffic lane lines or a vehicle ahead.

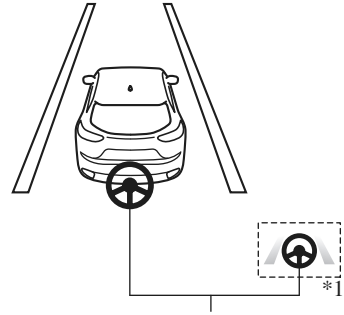
Inactive

Instrument Cluster (Type A)



Steering assist operation display (white)

Instrument Cluster (Type B)

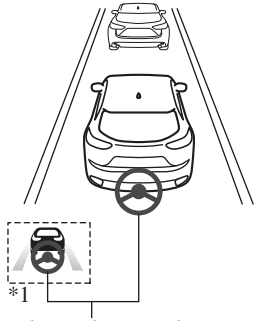


Steering assist operation display (white)

*1: Displayed on the basic display.

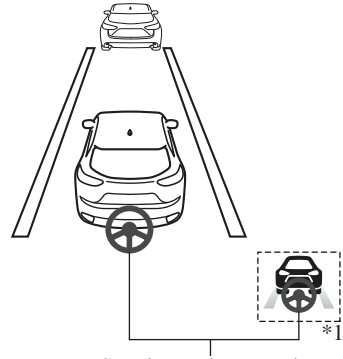
Active (vehicle ahead)

Instrument Cluster (Type A)



Steering assist operation display (green)

Instrument Cluster (Type B)

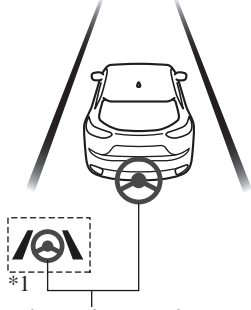


Steering assist operation display (green)

*1: Displayed on the basic display.

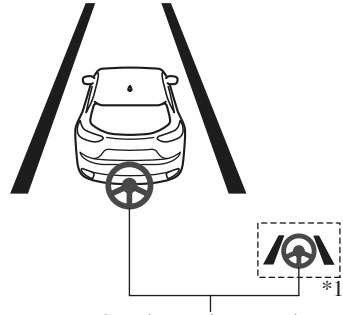
Active (lane line)

Instrument Cluster (Type A)



Steering assist operation display (green)

Instrument Cluster (Type B)



Steering assist operation display (green)

*1: Displayed on the basic display.

If there is a problem with the CTS, a message is displayed on the display. Check the details of the problem and then have your vehicle inspected by an Authorized Mazda Dealer.

▼ Close Proximity Warning

If your vehicle rapidly closes in on the vehicle ahead because the vehicle ahead applies the brakes suddenly while you are traveling in headway control, the warning sound activates and the brake warning is indicated in the display. Always verify the safety of the

surrounding area and depress the brake pedal while keeping a safer distance from the vehicle ahead. Additionally, keep a safe distance from the vehicles behind you.

BRAKE!

NOTE

In the following cases, the warnings and brakes may not operate even if your vehicle starts closing in on the vehicle ahead.

- *You are driving your vehicle at the same speed as the vehicle ahead.*
- *Directly after the CTS has been set.*
- *Directly after the accelerator pedal is released.*
- *Another vehicle cuts into the driving lane.*

▼ Setting the System

Operation conditions

Headway control function

The CTS operates when all of the following conditions are met.

- Vehicle speed is 0 km/h (0 mph) to 145 km/h (90 mph)
- The headway control function of the Mazda Radar Cruise Control with Stop & Go function (MRCC with Stop & Go function) is set to operable (if it was set to inoperable, set it to operable using the personalization function).
- The selector lever is in the D or M position (manual mode).
- The CTS is operating.
- The brake pedal is not depressed.
- The parking brake is released (Electric Parking Brake (EPB) indicator light is turned off).
- There is no problem with the DSC.
- All the doors are closed.
- The driver's seat belt is fastened.

NOTE

- *Under the following conditions, the CTS cannot be used when the vehicle speed is 30 km/h (19 mph) or slower.*
  - *The Forward Sensing Camera (FSC) cannot detect target objects (There is problem with the Forward Sensing Camera (FSC) or windshield is dirty).*
  - *There is a problem with the stop hold control function.*
  - *There is a problem with the Electric Parking Brake (EPB).*
- *The CTS may not launch directly after the engine starts.*

Steering assist function

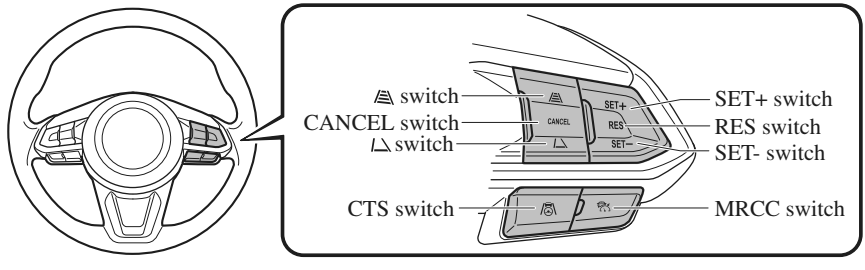
The steering assist function operates when all of the following conditions are met.

- Your vehicle is moving and less than about 56 km/h (35 mph).
- White (yellow) lane lines on both sides are detected and you are driving near the center of the lane, or your vehicle detects a vehicle ahead.
- The steering wheel is not turned sharply.
- The turn signal lever is not operated.
- The headway control function is operating.
- The Off-Road Traction Assist is not operating.
- When Off-road mode is not selected using Mazda intelligent Drive Select (Mi-Drive).

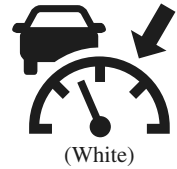
NOTE

- *The steering assist function operates so that the vehicle remains near the center of the driving lane, however, depending on conditions such as the road curvature, road slope and undulations, and vehicle speed, the function might not be able to keep the vehicle near the center of the driving lane.*

Setting method



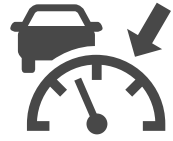
1. Press the CTS switch.
   The CTS standby indication (white) turns on. In addition, the CTS display indication is displayed on the multi-information display at the same time.



(White)

2. Adjust the vehicle speed to the desired setting using the accelerator pedal and press the SET+ switch or SET- switch to start headway control.

The set speed is indicated on the display. At the same time, the CTS standby indication (white) changes to the CTS set indication (green).



(Green)

3. The headway control is operable when all of the conditions for it to operate are met, or the steering assist function is operable when all of the conditions for it to operate are met.

NOTE

- *If a vehicle ahead is detected while traveling at a constant speed, the vehicle-ahead indication is displayed and headway control is performed. Additionally, when a vehicle ahead is no longer detected, the vehicle-ahead indication turns off and the system switches back to travel at constant speed.*
- *The lowest possible speed which can be set on the CTS is 30 km/h (19 mph).*
- *Headway control is not possible if the vehicle ahead is driving faster than your vehicle's set speed. Adjust the system to the desired vehicle speed using the accelerator pedal.*
- *When the ignition is switched OFF, the system status before it was turned off is maintained. For example, if the ignition is switched OFF with the CTS operable, the CTS remains operational the next time the ignition is switched ON.*
- *When the CTS switch is pressed while the Mazda Radar Cruise Control with Stop & Go function (MRCC with Stop & Go function) system is operating, the CTS operates. In addition, when the MRCC switch is pressed while the CTS is operating, the Mazda Radar Cruise Control with Stop & Go function (MRCC with Stop & Go function) system operates.*

Changing the set vehicle speed

To accelerate/decelerate using the SET switch

When you press the SET+ switch, the vehicle accelerates and when you press the SET- switch, it decelerates.

Short press	1 km/h (1 mph)
Long press	10 km/h (5 mph)

NOTE

For example, the set vehicle speed is changed by pressing the SET switch four times as follows:

The vehicle speed accelerates or decelerates by 4 km/h (4 mph).

To increase speed using accelerator pedal

Depress the accelerator pedal and press and release the SET+ switch or SET- switch at the desired speed. If the switch is not operated, the system returns to the set speed after you release your foot from the accelerator pedal.

⚠ CAUTION

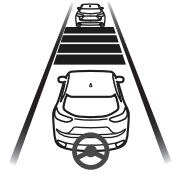
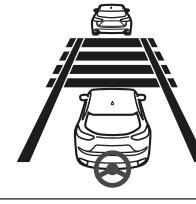
The warnings and brake control do not operate while the accelerator pedal is depressed.

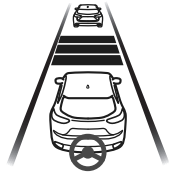
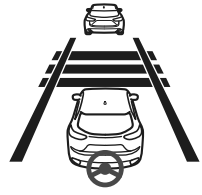
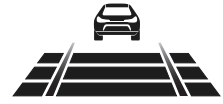
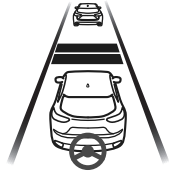
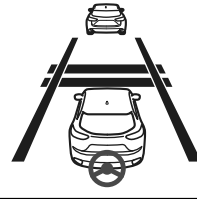
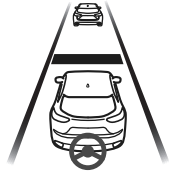
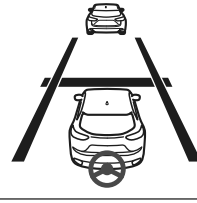
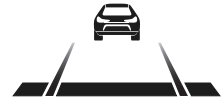
NOTE

- *When accelerating using the SET+ switch while in headway control, the set vehicle speed can be adjusted but acceleration is not possible. If there is no longer a vehicle ahead, acceleration continues until reaching the set vehicle speed. For the set vehicle speed, check the set vehicle speed indication in the display.*
- *When depressing the accelerator pedal, the inter-vehicle distance indication in the display changes to the white-line indication.*
- *The setting speed can be changed by operating the SET+ switch or SET- switch during stop hold control.*

Changing the distance between vehicles during headway control

The distance-between-vehicles can be set to 4 levels; Long, medium, short, and extremely short distance.
The distance-between-vehicles is set to a shorter distance by pressing the switch. The distance-between-vehicles is set to a longer distance by pressing the switch.

Distance-between-vehicles guideline (at 80 km/h (50 mph) vehicle speed)	Indication on multi-information display		Indication on active driving display*1
	Type A	Type B	
Long (about 50 m (164 ft))			

Distance-between-vehicles guideline (at 80 km/h (50 mph) vehicle speed)	Indication on multi-information display		Indication on active driving display*1
	Type A	Type B	
Medium (about 40 m (131 ft))			
Short (about 30 m (98 ft))			
Extremely short (about 25 m (82 ft))			

*1 Displays a pop-up image in the active driving display only when the driver operates the switch.

NOTE

- *The distance-between-vehicles differs depending on the vehicle speed, and the slower the vehicle speed, the shorter the distance.*
- *When the ignition is switched to ACC or OFF and then the engine is started again, the system automatically sets the distance-between-vehicles to the previous setting.*

The function is temporarily canceled

Headway control function

When the following operations are performed, the headway control function is temporarily canceled and the CTS set indication (green) changes to the CTS standby indication (white) at the same time.

- The CANCEL switch is pressed.
- The brake pedal is depressed.
- The parking brake is applied.

- The selector lever is in the P, N, or R position.

Under the following conditions, the CTS cancel indication is displayed in the multi-information display and a single beep sound is heard.

- The DSC has operated.
- The Smart Brake Support (SBS) has operated.
- The Smart City Brake Support [Forward] (SCBS F) or Advanced Smart City Brake Support (Advanced SCBS) has operated.
- When traveling on a downslope for a long period of time.
- There is a problem with the system.
- The engine has stalled.
- Any of the doors is opened.
- The driver's seat belt is unfastened.
- The radar sensor (front) cannot detect target objects (during rain, fog, snow or other inclement weather conditions, or when the radiator grille is dirty).
- The parking brake is automatically applied during stop hold control.

Steering assist function

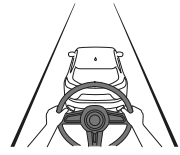
If any of the following conditions occurs, the steering assist function is temporarily canceled.

- The headway control function is canceled.
- White (yellow) lane lines cannot be detected or a vehicle ahead cannot be recognized.
- Your vehicle speed is more than about 64 km/h (40 mph).
- The accelerator pedal is operated.
- The turn signal lever is operated.
- The Off-Road Traction Assist has operated.
- When Off-road mode is selected using Mazda intelligent Drive Select (Mi-Drive).
- The vehicle is being driven on a sharp curve.
- The width of a lane is excessively narrow or wide.
- The vehicle crosses a lane line.
- The driver takes his/her hands off the steering wheel.
- The steering wheel is operated abruptly.
- There is a problem with the system.
- The temperature in the Forward Sensing Camera (FSC) is too high or too low.
- The windshield around the Forward Sensing Camera (FSC) is foggy.
- The windshield around the Forward Sensing Camera (FSC) is blocked by an obstruction, causing poor forward visibility.

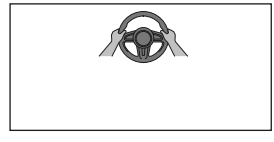
NOTE

- *If you take your hands off the steering wheel, a warning is indicated on the multi-information display and the active driving display. Then, if you continue to leave your hands off the steering wheel, a warning is indicated on the multi-information display and the active driving display and a warning sound is activated.*

Multi-information Display



Active Driving Display



- *If the steering wheel is held lightly, or depending on the road conditions, the system determines that you have released the steering wheel (not holding the steering wheel) even if you are holding it, and an alert is indicated on the multi-information display and the active driving display.*

To resume operation

If the CTS is temporarily canceled, it will resume operation at the previously set speed by pressing the RES switch after all of the operation conditions have been met.

NOTE

- *If the set speed is not indicated on the display, the system does not operate even if the RES switch is pressed.*
- *After the operation, the steering assist operation may not operate for a period of 5 seconds at the most until the lane lines are detected or a vehicle ahead is recognized.*

Turning off

When the CTS switch is pressed while the CTS is operating, the CTS turns off.

▼ Stop Hold Control

While in headway control using the CTS, your vehicle will stop when a vehicle ahead stops. When the vehicle is stopped and the stop hold control operates, the CTS indicator light turns on.



NOTE

- *If the CTS system is canceled during stop hold control, the vehicle is held in its stopped position. The stop hold control can be canceled by performing one the following actions.*
  - *Press the accelerator pedal and resume driving the vehicle.*
  - *While forcefully depressing the brake, switch the CTS system off.*
- *The parking brake is automatically applied and the vehicle is held in its stopped position when 10 minutes have elapsed since the stop hold control operated. At this time, the CTS system is canceled.*
- *The brake lights turn on during stop hold control.*

To resume driving

After the vehicle ahead starts moving while your vehicle is stopped under stop hold control, press the RES switch or depress the accelerator pedal to cancel the stop hold control and start driving.

NOTE

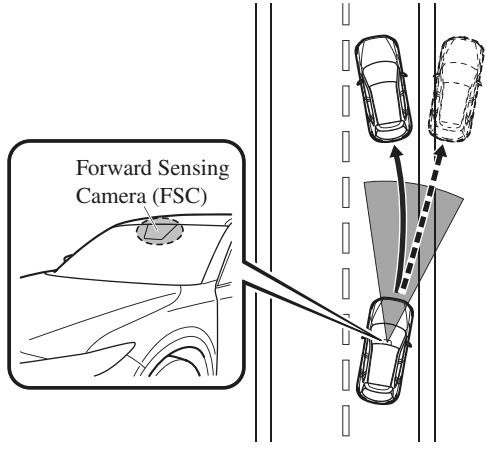
- *When you resume driving by pressing the RES switch, your vehicle does not start moving until the distance between your vehicle and the vehicle ahead lengthens to the specified distance or farther.*
- *If the CTS is temporarily canceled during stop hold control, you cannot resume driving by pressing the RES switch when there are no vehicles in front of your vehicle. Depress the accelerator pedal and resume driving the vehicle.*
- *If the vehicle ahead starts moving within 3 seconds after your vehicle is stopped by the stop hold control, headway control will resume even if you do not resume driving your vehicle, such as by depressing the accelerator pedal.*

Resume driving information

If you do not start driving the vehicle after the vehicle ahead has resumed driving, the system urges the driver to resume driving.

Lane-keep Assist System (LAS) & Lane Departure Warning System (LDWS)*

The LAS & LDWS alerts the driver that the vehicle may be deviating from its lane and it provides steering assistance to help the driver stay within the vehicle lanes.
The Forward Sensing Camera (FSC) detects the white lines (yellow lines) of the vehicle lane in which the vehicle is traveling and if the system determines that the vehicle may deviate from its lane, it operates the electric power steering to assist the driver's steering operation. The system also alerts the driver by activating a lane departure warning sound, vibrating the steering wheel, and indicating an alert in the display. Use the system when you drive the vehicle on roads with white (yellow) lines such as expressways and highways.
Refer to Forward Sensing Camera (FSC) on page 4-234.



⚠ WARNING

Do not rely completely on the LAS & LDWS:

- *The LAS & LDWS is not an automatic driving system. In addition, the system is not designed to compensate for a driver's lack of caution, and over-reliance on the system could lead to an accident.*
- *The detection ability of the LAS & LDWS is limited. Always stay on course using the steering wheel and drive with care.*

Do not use the LAS & LDWS in the following cases:
The system may not operate adequately according to the actual driving conditions, resulting in an accident.

 *Some models.

- *Driving on roads with tight curves.*
- *Driving under bad weather conditions (rain, fog, and snow).*
- *Slippery roads such as ice or snow-bound roads.*
- *Roads with heavy traffic and insufficient distance between vehicles.*
- *Roads with no white (yellow) lane lines.*
- *Narrow roads resulting from road construction or lane closures.*
- *The vehicle is driven on a temporary lane or section with a closed lane resulting from road construction where there may be multiple white (yellow) lane lines or they are interrupted.*
- *Vehicle is driven on roads other than expressways and highways.*
- *The tire pressures are not adjusted to the specified pressure.*
- *The vehicle is being used to tow a camper or boat trailer.*
- *Tires of a different specified size are used, such as an emergency spare tire.*

⚠ CAUTION

Heed the following cautions so that the LAS & LDWS can operate normally.

- *Do not modify the suspensions.*
- *Always use wheels of the specified type and size for the front and rear wheels. Consult an Authorized Mazda Dealer for tire replacement.*

NOTE

- *When the turn signal lever is operated for a lane change, the LAS & LDWS is automatically disabled. The LAS & LDWS becomes operational again when the turn signal lever is returned and the system detects white (yellow) lane lines while the vehicle is being driven normally within its vehicle lane.*
- *If the steering wheel, accelerator pedal, or brake pedal is operated abruptly and the vehicle moves close to a white (yellow) line, the system determines that the driver is making a lane change and the LAS & LDWS operation is temporarily canceled. The LAS & LDWS becomes operational again when the system detects white (yellow) lane lines while the vehicle is being driven normally within its vehicle lane.*
- *If the vehicle deviates from its lane repeatedly within a short period of time, the LAS & LDWS may not operate.*
- *When white (yellow) lane lines are not detected, the LAS & LDWS does not operate.*
- *Under the following conditions, the LAS & LDWS may not be able to detect white (yellow) lane lines correctly and it may not operate normally.*
  - *If an object placed on the dashboard is reflected in the windshield and picked up by the camera.*
  - *Heavy luggage is loaded in the luggage compartment or on the rear seat and the vehicle is tilted.*

- *The tire pressures are not adjusted to the specified pressure.*
- *Tires other than conventional tires are equipped.*
- *Vehicle is driven on an intersection or junction, or on a forked road.*
- *The white (yellow) lane lines are less visible because of dirt or fading/patchiness.*
- *A vehicle in front of your vehicle is running near a white (yellow) lane line making it less visible.*
- *A white (yellow) lane line is less visible because of bad weather (rain, fog, or snow).*
- *The vehicle is driven on a temporary lane or section with a closed lane resulting from construction where there may be multiple white (yellow) lane lines or they are interrupted.*
- *A misleading line is picked up on the road such as a temporary line for construction, or because of shade, lingering snow, or grooves filled with water.*
- *The surrounding brightness suddenly changes such as when entering or exiting a tunnel.*
- *The illumination of the headlights is weakened because of dirt or the optical axis is deviated.*
- *The windshield is dirty or foggy.*
- *The windshield, camera is fogged (water droplets).*
- *Back-light is reflected off the road surface.*
- *The road surface is wet and shiny after rain, or there are puddles on the road.*
- *The shade of a guardrail parallel to a white (yellow) lane line is cast on the road.*
- *The width of the driving lane is narrow or wide.*
- *Driving on roads with tight curves.*
- *The road is excessively uneven.*
- *The vehicle is shaken after hitting a road bump.*
- *There are 2 or more adjacent white (yellow) lane lines.*
- *There are various road markings or lane markings of various shapes near an intersection.*

▼ System Operation

System operation

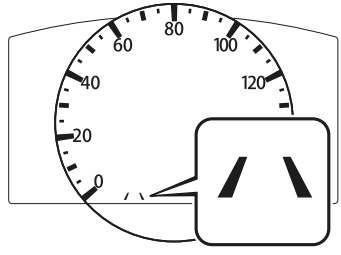
When the ignition is switched ON, the system goes on standby.
Drive the vehicle in the center of the vehicle lane while the system is on standby. When all of the following conditions are met, and the system becomes operational.

- The engine is running.
- The vehicle speed is about 64 km/h (40 mph) or faster.
- The system detects white (yellow) lane lines on both the right and left sides.
- The driver is operating the steering wheel.
- The driving lane is neither narrow nor wide.
- The steering assist function of the Cruising & Traffic Support (CTS) is not operating.

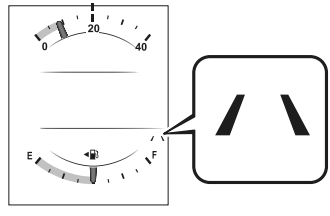
When the system becomes operational, the LAS & LDWS indication (white) is displayed on the multi-information display and active driving display.

Multi-information display (Basic display)

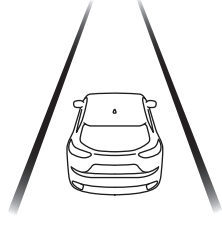
Instrument Cluster (Type A)



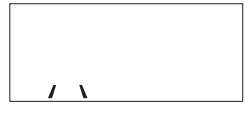
Instrument Cluster (Type B)



Multi-information display (i-ACTIVSENSE display)



Active driving display*



The LAS & LDWS goes on stand-by status in the following cases:

- The system cannot detect white (yellow) lane lines.
- The vehicle speed is less than about 56 km/h (35 mph).
- The ABS/TCS is operating.
- The TCS is turned off.
- The Off-Road Traction Assist is turned on.

- When Off-road mode is selected using Mazda intelligent Drive Select (Mi-Drive).
- The vehicle is making a sharp curve.
- The brake pedal is depressed.
- The steering wheel is operated abruptly.
- The width of a lane is excessively narrow or wide.
- The steering assist function of the CTS operated.

NOTE

- *The LAS & LDWS does not operate until the system detects white (yellow) lane lines on either the left or right.*
- *When the system detects a white (yellow) lane line on one side only, the system will not operate the steering wheel operation assist and the warning for the lane line on the side that is not being detected. The steering wheel operation assist and the warning is only for a lane deviation on the side that is being detected.*
- *When the system determines that the driver is driving the vehicle with his or her hands off the steering wheel while the steering wheel operation assist is operating, and if the condition continues several times within a certain period of time, the warning sound is activated. The higher the number of times the steering wheel operation assist operates, the longer the period of time the warning sound is activated.*
- *The timing at which the lane departure warning is activated and the steering wheel operation assist is performed varies.*
- *The following settings for the LAS & LDWS can be changed. Refer to the Settings section in the Mazda Connect Owner's Manual.*
  - *Steering operation assist operational/non-operational*

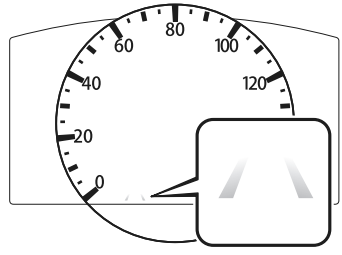
Vehicle lane line display

When the LAS & LDWS goes on standby, the vehicle lane lines are indicated on the multi-information display and the active driving display. When white (yellow) lines on both the left and right sides are detected and the system becomes operational, the vehicle lane lines indicated on the multi-information display and the active driving display change to white.

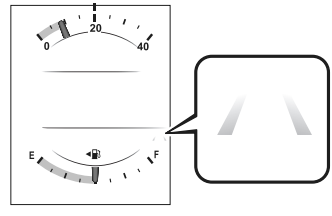
(Stand-by status)

Multi-information display (Basic display)

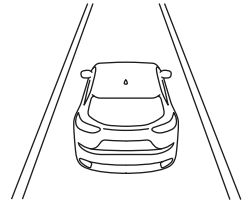
Instrument Cluster (Type A)



Instrument Cluster (Type B)



Multi-information display (i-ACTIVSENSE display)

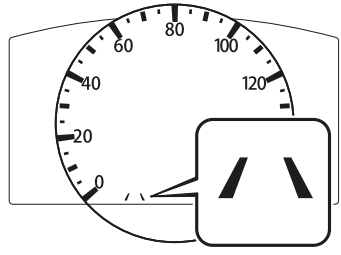


Active driving display*

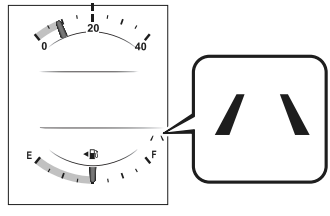


(Operational status)
Multi-information display (Basic display)

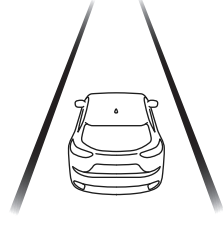
Instrument Cluster (Type A)



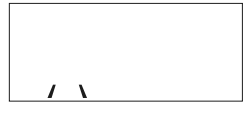
Instrument Cluster (Type B)



Multi-information display (i-ACTIVSENSE display)



Active driving display*



NOTE
When only one side of the white (yellow) lines is detected, only the detected vehicle lane line indicated on the multi-information display and the active driving display changes to white.

Auto cancel

In the following cases, the LAS & LDWS is automatically canceled, the LAS & LDWS warning indication (amber) turns on, and an alert is displayed. When the LAS & LDWS become operational, the system turns back on automatically.

- The temperature in the Forward Sensing Camera (FSC) is too high or too low.
- The windshield around the Forward Sensing Camera (FSC) is foggy.
- The windshield around the Forward Sensing Camera (FSC) is blocked by an obstruction, causing poor forward visibility.

Auto cancel of warning/steering assist

When the following operations are performed, the LAS & LDWS operation is canceled automatically. The LAS & LDWS resumes automatically after the operation.

- The steering wheel is operated abruptly.
- The brake pedal is operated.
- The accelerator pedal is operated.
- The turn signal lever is operated.
- The vehicle crosses a lane line.

NOTE

- *After the operation, the LAS & LDWS operation may not operate for a period of 5 seconds at the most until the lane lines are detected.*
- *Under the following conditions, the LAS & LDWS cancels the warning/steering assist automatically.*
  - *The TCS OFF switch is pressed to cancel the TCS.*
  - *The Off-Road Traction Assist switch is pressed to turn on the Off-Road Traction Assist.*
  - *When Off-road mode is selected using Mazda intelligent Drive Select (Mi-Drive).*

Steering wheel operation assist OFF (non-operational)

The steering wheel operation assist for the LAS & LDWS can be turned off. However, when driving the vehicle while the CTS function is in use, the steering wheel operation assist turns on automatically.
When the steering wheel operation assist has been turned off, only the lane departure warning is operational.
Refer to the Settings section in the Mazda Connect Owner's Manual.

System operation

Drive the vehicle in the center of the driving lane while the LAS & LDWS OFF indicator light in the instrument cluster is turned off.
The system becomes operational when all of the following conditions are met.

- The engine is running.
- The vehicle speed is about 64 km/h (40 mph) or faster.
- The system detects white (yellow) lane lines on both the right and left sides or on either side.

- The vehicle is driven on a straight road or road with gentle curves.
- The steering assist function of the CTS is not operating.

The LAS & LDWS goes on stand-by status in the following cases:

- The vehicle speed is less than about 56 km/h (35 mph).
- The system cannot detect white (yellow) lane lines.
- The vehicle is making a sharp curve.
- The vehicle is making a curve at an inappropriate speed.
- The steering assist function of the CTS operated.

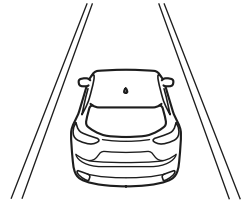
NOTE

- *The LAS & LDWS remains on stand-by until it detects white (yellow) lines on both the left and right sides, or on either side.*
- *When the system detects a white (yellow) lane line on one side only, the system will not activate warnings for the lane line on the side that is not being detected.*

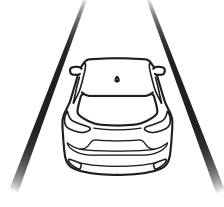
Vehicle lane line display

When the LAS & LDWS becomes operational while on standby, the vehicle lane lines are displayed in the multi-information display. The system changes to operational status display when the system detects a white (yellow) line on either the left or right.

(Stand-by status)



(Operational status)



NOTE

When only one side of the white (yellow) lines is detected, only the detected vehicle lane line indicated on the multi-information display changes to white.

Auto cancel

In the following cases, the LAS & LDWS is automatically canceled, the LAS & LDWS warning indication (amber) turns on, and an alert is displayed. When the LAS & LDWS become operational, the system turns back on automatically.

- The temperature in the Forward Sensing Camera (FSC) is too high or too low.
- The windshield around the Forward Sensing Camera (FSC) is foggy.
- The windshield around the Forward Sensing Camera (FSC) is blocked by an obstruction, causing poor forward visibility.

Auto cancel of warnings

When the following operations are performed, the LAS & LDWS determines that the driver intends to make a lane change and the system operation is canceled automatically. The LAS & LDWS resumes automatically after the operation.

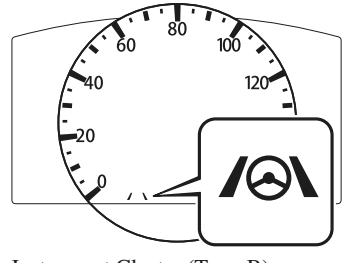
- The steering wheel is operated abruptly.
- The brake pedal is depressed.
- The accelerator pedal is depressed.
- The turn signal lever is operated.
- The vehicle crosses a lane line.

▼ Steering Wheel Operation Assist

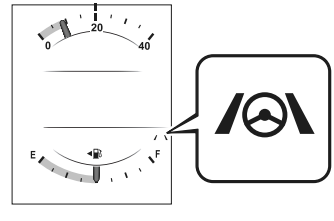
When the system determines that the vehicle might be deviating from its lane, the steering wheel operation assist operates.
The system notifies the driver that it provided steering wheel operation assistance on the multi-information display and the active driving display.

Multi-information display (Basic display)

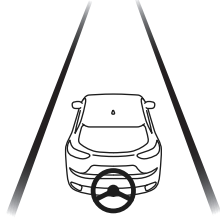
Instrument Cluster (Type A)



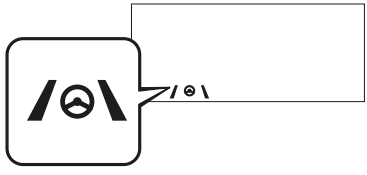
Instrument Cluster (Type B)



Multi-information display (i-ACTIVSENSE display)



Active driving display*



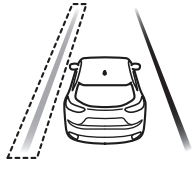
NOTE

- *When the driver operates the steering wheel while the steering wheel operation assist is operating, the steering wheel operation assistance is canceled.*

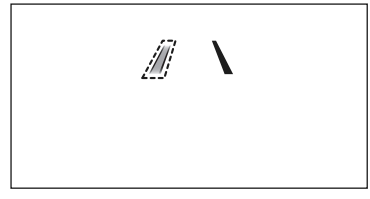
▼ Lane Departure Warning

If the system determines that the vehicle may deviate from its lane, the lane departure warning is activated and the direction in which the system determines that the vehicle may deviate is indicated in the multi-information display and the active driving display.
For vehicles equipped with the multi-information display, the direction which the system determined that the vehicle may be deviating from its lane is indicated in the multi-information display.
For vehicles equipped with the active driving display, the color of the lane line in the direction which the system determined that the vehicle may be deviating from its lane changes from white to amber and the vehicle lane line flashes.

Multi-information Display



Active Driving Display

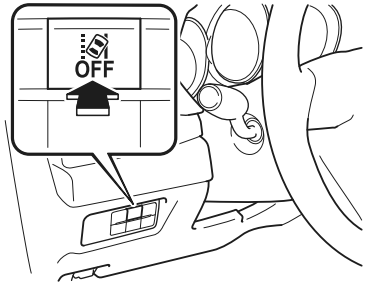


NOTE

- *If you have set the lane departure warning sound to the beep sound setting, the warning sound may not be heard depending on the surrounding noise conditions.*
- *If you have set the lane departure warning system to the steering wheel vibrations setting, the vibration may not be felt depending on the road surface conditions.*
- *When the setting for the steering operation assist is changed to operational, the warnings can be set to activate/not activate. (If the setting for the steering operation assist is changed to non-operational, the warnings cannot be set to non-operational.)*
  Refer to the Settings section in the Mazda Connect Owner's Manual.
- *The LAS & LDWS can be changed to the following settings regardless of whether the steering operation assist has been set to operational/non-operational. Always check the setting status when driving the vehicle and make setting changes if necessary.*
  Refer to the Settings section in the Mazda Connect Owner's Manual.
  - *Steering wheel vibration: Strong/weak*
  - *Warning sound volume*
  - *Types of warnings (steering wheel vibration/beep sound)*

▼ System Canceling

When the LAS & LDWS is turned off, press the LAS & LDWS OFF switch.



The LAS & LDWS OFF indicator light turns on.



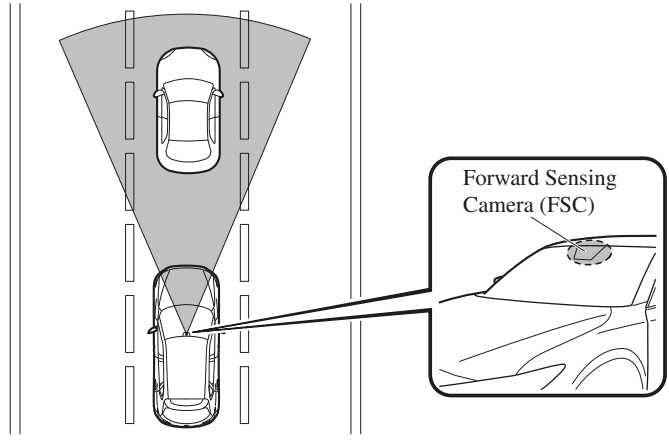
NOTE

- *When driving the vehicle while the CTS function is in use, the LAS & LDWS turns on automatically.*
- *In the following cases, the LAS & LDWS is canceled automatically and the LAS & LDWS OFF indicator light turns on. Have your vehicle inspected at an Authorized Mazda Dealer.*
  - *There is a malfunction in the power steering.*
  - *There is a malfunction in the TCS.*
  - *There is a malfunction in the Forward Sensing Camera (FSC).*
- *When the ignition is switched OFF, the system status before it was turned off is maintained. For example, if the ignition is switched OFF with the lane-keep system operable, the system will be operable when the ignition is switched ON the next time.*

When the LAS & LDWS is turned off, the vehicle lane line indication in the multi-information display and the active driving display turn off.

Advanced Smart City Brake Support (Advanced SCBS)*

The Advanced SCBS alerts the driver of a possible collision using the display and a warning sound when the Forward Sensing Camera (FSC) detects a vehicle ahead or pedestrian and determines that a collision with the object is unavoidable while the vehicle is driven at a vehicle speed of about 4 to 80 km/h (2 to 50 mph) if the object is a vehicle ahead and about 10 to 80 km/h (6.2 to 50 mph) if the object is a pedestrian. In addition, the system reduces damage in the event of a collision by operating the brake control (Advanced SCBS brake) when the system determines that a collision is unavoidable. In addition, when the driver depresses the brake pedal, the brakes are applied firmly and quickly to assist. (Brake Assist (Advanced SCBS brake assist))



⚠ WARNING

Do not rely completely on the Advanced SCBS system:

- *The Advanced SCBS system is only designed to reduce damage in the event of a collision. Over reliance on the system leading to the accelerator pedal or brake pedal being mistakenly operated could result in an accident.*
- *The Advanced SCBS system operates in response to a vehicle ahead or a pedestrian. The system does not operate in response to obstructions such as a wall, 2-wheeled vehicles, or animals.*

⚠ CAUTION

In the following cases, turn the system off to prevent a mis-operation:

- *The vehicle is being towed or when towing another vehicle.*
- *The vehicle is on a chassis roller.*
- *When driving on rough roads such as in areas of dense grass or off-road.*

Refer to Stopping the Advanced Smart City Brake Support (Advanced SCBS) System Operation on page 4-195 on how to turn off the Advanced SCBS system.

NOTE

- *The Advanced SCBS system will operate under the following conditions.*
  - *The engine is running.*
  - *The Smart City Brake Support (SCBS) warning indication (amber) does not illuminate.*
  - ***(Object is vehicle ahead)***
    The vehicle speed is between about 4 to 80 km/h (2 to 50 mph).
  - ***(Object is a pedestrian)***
    The vehicle speed is between about 10 to 80 km/h (6.2 to 50 mph).
  - *The Advanced SCBS system is not turned off.*
- *Under the following conditions, the Advanced SCBS system may not operate normally:*
  - *The Advanced SCBS system will not operate if the driver is deliberately performing driving operations (accelerator pedal and steering wheel).*
  - *If there is the possibility of partial contact with a vehicle ahead.*
  - *The vehicle is driven on a slippery road surface such as wet roads or icy or snow-bound roads.*
  - *The braking performance is adversely affected due to cold temperatures or wet brakes.*
  - *The vehicle is driven at the same speed as the vehicle ahead.*
  - *The accelerator pedal is depressed.*
  - *The brake pedal is depressed.*
  - *The steering wheel is being operated.*
  - *The selector lever is being operated.*
- *In the following cases, the Advanced SCBS may operate.*
  - *Objects on the road at the entrance to a curve.*
  - *Vehicles passing in the opposite lane while making a curve.*
  - *When passing through a toll gate.*
  - *When passing through low gates, narrow gates, car washing machines, or tunnels.*
  - *If you suddenly come close to a vehicle ahead.*
  - *2-wheeled vehicles, animals, or standing trees.*

- *During the Advanced SCBS brake control, the brake pedal may move rearward or become stiff. The brakes are operating, but continue to depress the brake pedal.*

▼ Collision Warning

If there is the possibility of a collision with a vehicle ahead, the beep sounds continuously and a warning is indicated in the multi-information display and the active driving display.

BRAKE!

NOTE

The operation distance and volume of the collision warning can be changed. Refer to the Settings section in the Mazda Connect Owner's Manual.

▼ Automatic Brake Operation Display

The automatic brake operation display is indicated on the multi-information display after the Advanced SCBS is operated.



Smart City Brake Support Activated

NOTE

- *The collision warning beep sounds intermittently while the Advanced SCBS brake or brake assist (Advanced SCBS brake assist) is operating.*
- *If the vehicle is stopped by the Advanced SCBS operation and the brake pedal is not depressed, the warning beep sounds 1 time after about 2 seconds and the Advanced SCBS brake is automatically released.*

▼ Stopping the Advanced Smart City Brake Support (Advanced SCBS) System Operation

The Advanced SCBS system can be temporarily deactivated.
Refer to the Settings section in the Mazda Connect Owner's Manual.
When the Advanced SCBS system is turned off, the Smart City Brake Support (SCBS) OFF indicator light turns on.



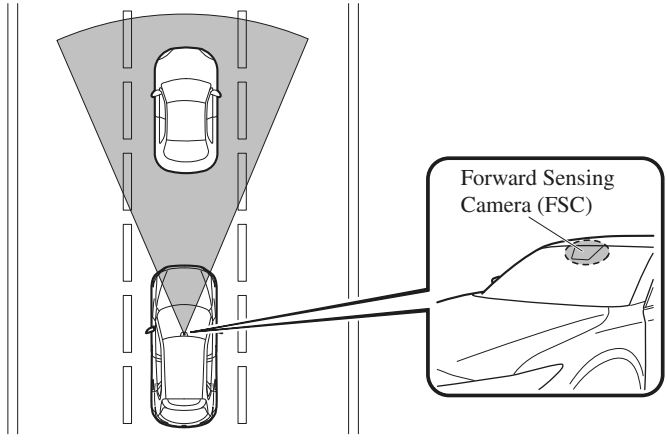
When the engine is restarted, the system becomes operational.

NOTE

When the Advanced SCBS system is set to inoperable, the Smart City Brake Support [Reverse] (SCBS R) system and the Smart Brake Support (SBS) are also set to inoperable.

Smart City Brake Support [Forward] (SCBS F)*

The SCBS F system alerts the driver of a possible collision using an indication in the display and a warning sound when the Forward Sensing Camera (FSC) detects a vehicle ahead and determines that a collision with a vehicle ahead is unavoidable while the vehicle is being driven at a vehicle speed of about 4 to 80 km/h (2 to 50 mph). In addition, the system reduces damage in the event of a collision by operating the brake control (Smart City Brake Support (SCBS) brake) when the system determines that a collision is unavoidable while the vehicle is being driven at a vehicle speed of about 4 to 30 km/h (2 to 18 mph). It may also be possible to avoid a collision if the relative speed between your vehicle and the vehicle in front of you is less than about 20 km/h (12 mph). In addition, when the driver depresses the brake pedal while the system is in the operation range at about 4 to 30 km/h (2 to 18 mph), the brakes are applied firmly and quickly to assist. (Brake Assist (Smart City Brake Support (SCBS) brake assist))



⚠ WARNING

Do not rely completely on the SCBS F system:

- *The SCBS F system is only designed to reduce damage in the event of a collision. Over reliance on the system leading to the accelerator pedal or brake pedal being mistakenly operated could result in an accident.*
- *The SCBS F is a system which operates in response to a vehicle ahead. The system may not be able to detect or react to 2-wheeled vehicles or pedestrians.*

 *Some models.

⚠ CAUTION

In the following cases, turn the system off to prevent a mis-operation:

- *The vehicle is being towed or when towing another vehicle.*
- *The vehicle is on a chassis roller.*
- *When driving on rough roads such as in areas of dense grass or off-road.*

Refer to Stopping the Smart City Brake Support [Forward] (SCBS F) system Operation on page 4-198 on how to turn off the SCBS F system.

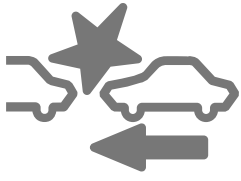
NOTE

- *The SCBS F system will operate under the following conditions.*
  - *The engine is running.*
  - *The Smart Brake Support/Smart City Brake Support (SBS/SCBS) system warning indication/warning light (amber) does not illuminate.*
  - ***(Rear-end collision warning)***
    The vehicle speed is about 4 to 80 km/h (2 to 50 mph).
  - ***(Brake control (Smart City Brake Support (SCBS) brake))***
    The vehicle speed is about 4 to 30 km/h (2 to 18 mph).
  - *The SCBS F system is not turned off.*
- *Under the following conditions, the SCBS F system may not operate normally:*
  - *The SCBS F system will not operate if the driver is deliberately performing driving operations (accelerator pedal and steering wheel).*
  - *If there is the possibility of partial contact with a vehicle ahead.*
  - *The vehicle is driven on a slippery road surface such as wet roads or icy or snow-bound roads.*
  - *The braking performance is adversely affected due to cold temperatures or wet brakes.*
  - *The vehicle is driven at the same speed as the vehicle ahead.*
  - *The accelerator pedal is depressed.*
  - *The brake pedal is depressed.*
  - *The steering wheel is being operated.*
  - *The selector lever is being operated.*
- *In the following cases, the Forward Sensing Camera (FSC) determines that there is a vehicle ahead and the SCBS F may operate.*
  - *Objects on the road at the entrance to a curve.*
  - *Vehicles passing in the opposite lane while making a curve.*
  - *Metal objects, bumps, or protruding objects on the road.*
  - *When passing through a toll gate.*
  - *When passing through low gates, narrow gates, car washing machines, or tunnels.*

・If you suddenly come close to a vehicle ahead.
・2-wheeled vehicles, pedestrians, animals or standing trees.
・Vehicle is driven with some of the tires having significant wear.
・During the SCBS F brake control, the brake pedal may move rearward or become stiff. The brakes are operating, but continue to depress the brake pedal.

▼ Smart City Brake Support (SCBS) Indicator Light (Red)*

If the Smart City Brake Support (SCBS) is operating, the indicator light (red) flashes.



▼ Collision Warning*

If there is the possibility of a collision with a vehicle ahead, the beep sounds continuously and a warning is indicated in the multi-information display and the active driving display.

BRAKE!

NOTE
The operation distance and volume of the collision warning can be changed. Refer to the Settings section in the Mazda Connect Owner's Manual.

▼ Automatic Brake Operation Display*

The automatic brake operation display is indicated on the multi-information display after the SCBS F is operated.



Smart City Brake Support Activated

NOTE

・The collision warning beep sounds intermittently while the SCBS F brake or brake assist (SCBS F brake assist) is operating.
・If the vehicle is stopped by the SCBS F operation and the brake pedal is not depressed, the warning beep sounds 1 time after about 2 seconds and the SCBS F brake is automatically released.

▼ Stopping the Smart City Brake Support (SCBS) System Operation

The SCBS F system can be temporarily deactivated.
Refer to the Settings section in the Mazda Connect Owner's Manual.

 *Some models.

When the SCBS F system is turned off, the Smart City Brake Support (SCBS) OFF indicator light turns on.

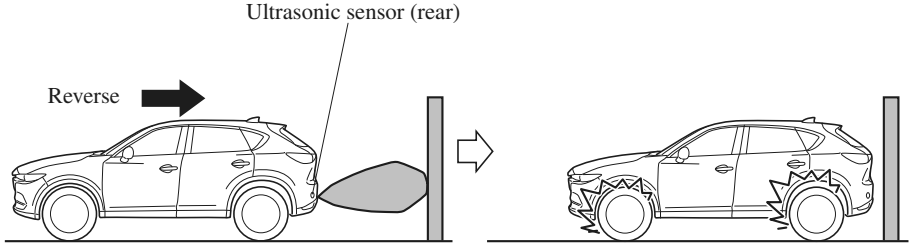


When the engine is restarted, the system becomes operational.

NOTE
When the SCBS F system is set to inoperable, the Smart Brake Support (SBS) are also set to inoperable.

Smart City Brake Support [Reverse] (SCBS R)*

The SCBS R is a system which is designed to reduce damage in the event of a collision by operating the brake control (SCBS brake) when the system's ultrasonic sensors detect an obstruction at the rear of the vehicle while driving at a speed of about 2 to 8 km/h (2 to 4 mph) and the system determines that a collision is unavoidable.



⚠ WARNING

Do not rely completely on the SCBS R system:

- *The SCBS R system is only designed to reduce damage in the event of a collision. Over reliance on the system leading to the accelerator pedal or brake pedal being mistakenly operated could result in an accident.*
- *To assure the correct operation of the SCBS R, heed the following cautions.*
  - *Do not apply a sticker to an ultrasonic sensor (rear) (including transparent stickers). Otherwise, the ultrasonic sensor (rear) may not be able to detect vehicles or obstructions which could result in an accident.*
  - *Do not disassemble an ultrasonic sensor (rear).*
  - *If cracks or damage caused by flying gravel or debris is visible around an ultrasonic sensor (rear), stop using the SCBS R system immediately and have your vehicle inspected by an Authorized Mazda Dealer. If the vehicle continues to be driven with cracks or scratch marks left around an ultrasonic sensor, the system may operate unnecessarily and cause an unexpected accident.*
    Refer to Stopping the Smart City Brake Support [Reverse] (SCBS R) System Operation on page 4-203.
  - *Consult an Authorized Mazda Dealer for rear bumper replacement.*

Do not modify the suspension:
If the vehicle height or inclination is changed, the SCBS R system may not operate correctly because it cannot detect obstructions correctly.

 *Some models.

Do not apply a strong force to an ultrasonic sensor (rear):
When washing the vehicle, do not spray highly pressurized water against an ultrasonic sensor (rear), or rub it strongly. In addition, do not hit the rear bumper forcefully when loading and unloading cargo Otherwise, the sensors may not detect obstructions correctly which could cause the SCBS R system to not operate normally, or it could operate unnecessarily.

⚠ CAUTION

- *When driving off-road in areas where there is grass or foliage, it is recommended that the SCBS R system be turned off.*
- *Always use tires of the specified size and the same manufacturer, brand, and tread pattern on all 4 wheels. In addition, do not use tires with significantly different wear patterns on the same vehicle. Otherwise, the SCBS R system may not operate normally.*
- *If ice or snow is stuck on the ultrasonic sensors (rear) they may not be able to detect obstructions correctly depending on the conditions. In such cases, the system may not be able to perform controls correctly. Always drive carefully and pay attention to the rear of the vehicle.*

NOTE

- *The vehicle posture changes depending on the accelerator pedal, brake pedal and steering wheel operations, which could make it difficult for the system to recognize an obstruction, or it could facilitate unnecessary detection. In such cases, the SCBS R may or may not operate.*
- *The SCBS R system will operate under the following conditions.*
  - *The engine is running.*
  - *The selector lever is in the R (reverse) position.*
  - *"Reverse Smart City Brake Support Malfunction" is not displayed in the multi-information display.*
  - *The vehicle speed is between about 2 to 8 km/h (2 to 4 mph).*
  - *The SCBS R is not turned off.*
  - *The DSC is not malfunctioning.*
- *The SCBS R operates using ultrasonic sensors (rear) which detect obstructions at the rear by emitting ultrasonic waves and then receiving the returning waves reflected off the obstructions.*
- *In the following cases, the ultrasonic sensors (rear) cannot detect obstructions and the SCBS R may not operate.*
  - *The height of the obstruction is low such as low walls or trucks with low loading platforms.*
  - *The height of the obstruction is high such as trucks with high loading platforms.*

- *The obstruction is small.*
- *The obstruction is thin such as a signpost.*
- *The obstruction is positioned away from the center of the vehicle.*
- *The surface of the obstruction is not pointed vertically relative to the vehicle.*
- *The obstruction is soft such as a hanging curtain or snow stuck to a vehicle.*
- *The obstruction is shaped irregularly.*
- *The obstruction is extremely close.*

- *In the following cases, the ultrasonic sensors (rear) cannot detect obstructions correctly and the SCBS R may not operate.*

  - *Something is stuck on the bumper near an ultrasonic sensor (rear).*
  - *The steering wheel is turned sharply, or the brake or accelerator pedal is operated.*
  - *There is another obstruction near one obstruction.*
  - *During inclement weather such as rain, fog and snow.*
  - *High or low humidity.*
  - *High or low temperatures*
  - *Strong winds.*
  - *The path of travel is not flat.*
  - *Heavy luggage is loaded in the luggage compartment or on the rear seat.*
  - *Objects such as a wireless antenna, fog light, or illuminated license plate is installed near an ultrasonic sensor (rear).*
  - *The orientation of an ultrasonic sensor (rear) has deviated for reasons such as a collision.*
  - *The vehicle is affected by other sound waves such as the horn, engine noise, ultrasonic sensor of another vehicle.*

- *In the following cases, an ultrasonic sensor (rear) may detect something as a target obstruction which could cause the SCBS R system to operate.*

  - *Driving on a steep slope.*
  - *Wheel blocks.*
  - *Hanging curtains, gate poles such as at toll gates and railroad crossing.*
  - *When traveling near objects such as foliage, barriers, vehicles, walls, and fences along a road.*
  - *When driving off-road in areas where there is grass and forage.*
  - *When passing through low gates, narrow gates, car washing machines, and tunnels.*
  - *A towing bar is installed or a trailer is connected.*

- *During the SCBS R brake control, the brake pedal may move rearward or become stiff. The brakes are operating, but continue to depress the brake pedal.*
- *When the system operates, the user is notified by the multi-information display.*
- *The Smart City Brake Support (SCBS) warning indication (amber) turns on when the system has a malfunction.*
  Refer to Taking Action on page 7-31.

▼ Automatic Brake Operation Display

"SCBS Automatic Brake" is indicated in the multi-information display after the Smart City Brake Support (SCBS) brakes is operated.



SCBS
Automatic Brake

NOTE

- *The collision warning beep sounds intermittently while the Smart City Brake Support (SCBS) brake is operating.*
- *If the vehicle is stopped by the Smart City Brake Support (SCBS) operation and the brake pedal is not depressed, the warning beep sounds one time after about 2 seconds and the Smart City Brake Support (SCBS) brake is automatically released.*

▼ Stopping the Smart City Brake Support [Reverse] (SCBS R) System Operation

The SCBS R system can be temporarily deactivated.
Refer to the Settings section in the Mazda Connect Owner's Manual.
When the SCBS R system is turned off, the Smart City Brake Support (SCBS) OFF indicator light turns on.



When the engine is restarted, the system becomes operational.

NOTE

When the SCBS R system is set to inoperable, Advanced Smart City Brake Support (Advanced SCBS) and the Smart Brake Support (SBS) are also set to inoperable.

Smart Brake Support (SBS)*

The SBS system alerts the driver of a possible collision using a display and warning sound if the radar sensor (front) and the Forward Sensing Camera (FSC) determine that there is the possibility of a collision with a vehicle ahead while the vehicle is being driven at about 15 km/h or faster (10 mph or faster). Furthermore, if the radar sensor (front) and the Forward Sensing Camera (FSC) determines that a collision is unavoidable, the automatic brake control is performed to reduce damage in the event of a collision.
In addition, when the driver depresses the brake pedal, the brakes are applied firmly and quickly to assist. (Brake Assist (SBS brake assist))

⚠ WARNING

Do not rely completely on the SBS system and always drive carefully:
The SBS is designed to reduce damage in the event of a collision, not avoid an accident. The ability to detect an obstruction is limited depending on the obstruction, weather conditions, or traffic conditions. Therefore, if the accelerator pedal or brake pedal is mistakenly operated it could result in an accident. Always verify the safety of the surrounding area and depress the brake pedal or accelerator pedal while keeping a safer distance from vehicles ahead or on-coming vehicles.

⚠ CAUTION

In the following cases, turn the system off to prevent a mis-operation:

- *The vehicle is being towed or when towing another vehicle.*
- *The vehicle is on a chassis roller.*
- *When driving on rough roads such as in areas of dense grass or off-road.*

NOTE

- *The SBS system operates when all of the following conditions are met:*
  - *The ignition is switched ON.*
  - *The SBS system is on.*
  - *The vehicle speed is about 15 km/h or faster (10 mph or faster).*
  - *The relative speed between your vehicle and the vehicle ahead is about 15 km/h or faster (10 mph or faster).*
  - *The Dynamic Stability Control (DSC) is not operating.*
- *The SBS system may not operate under the following conditions:*
  - *If the vehicle is accelerated rapidly and it comes close to a vehicle ahead.*
  - *The vehicle is driven at the same speed as the vehicle ahead.*
  - *The accelerator pedal is depressed.*
  - *The brake pedal is depressed.*
  - *The steering wheel is being operated.*
  - *The selector lever is being operated.*
  - *The turn signal is being used.*
  - *When the vehicle ahead is not equipped with taillights or the taillights are turned off.*

 *Some models.

・When warnings and messages, such as a dirty windshield, related to the Forward Sensing Camera (FSC) are being displayed in the multi-information display.

・Although the objects which activate the system are four-wheeled vehicles, the radar sensor (front) could detect the following objects, determine them to be an obstruction, and operate the SBS system.

・Objects on the road at the entrance to a curve (including guardrails and snow banks).
・A vehicle appears in the opposite lane while cornering or rounding a curve.
・When crossing a narrow bridge.
・When passing under a low gate or through a tunnel or narrow gate.
・When entering an underground parking area.
・Metal objects, bumps, or protruding objects on the road.
・If you suddenly come close to a vehicle ahead.
・When driving in areas where there is high grass or forage.
・Two-wheeled vehicles such as motorbikes or bicycles.
・Pedestrians or non-metallic objects such as standing trees.

・During the SBS brake control, the brake pedal may move rearward or become stiff. The brakes are operating, but continue to depress the brake pedal.
・When the system operates, the user is notified by the multi-information display.
・The SBS warning indication (amber) turns on when the system has a malfunction.

Refer to Taking Action on page 7-31.

▼ Collision Warning

If there is the possibility of a collision with a vehicle ahead, the beep sounds continuously and a warning is indicated in the multi-information display and the active driving display.



▼ Stopping The Smart Brake Support (SBS) System Operation

The SBS system can be temporarily deactivated.
Refer to the Settings section in the Mazda Connect Owner's Manual.
When the SBS system is turned off, the SBS OFF indicator light turns on.



When the engine is restarted, the system becomes operational.

NOTE
If the SBS system operation is turned off, the Smart City Brake Support (SCBS) system operation is turned off simultaneously.

360° View Monitor*

▼ 360° View Monitor

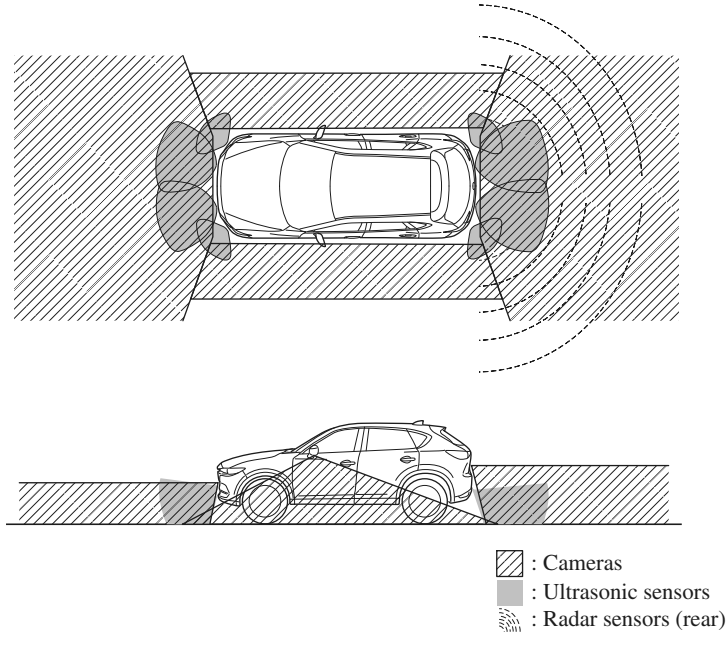
The 360°View Monitor consists of the following functions which assist the driver in checking the area surrounding the vehicle using various indications in the center display and a warning sound while the vehicle is being driven at low speeds or while parking.

- **Top view**
  The top view displays an image of the vehicle from directly above on the center display by combining the images taken from the 4 cameras set on all sides of the vehicle. The top view displays on the right side of the screen when the front view or rear view screen is being displayed. The top view assists the driver in checking the area surrounding the vehicle when the vehicle is moving forward or in reverse.
- **Front view/front wide view**
  The image from the front of the vehicle is displayed on the center display.
  The view from the front assists the driver in checking the front of the vehicle by displaying guide lines on the displayed image taken from the front of the vehicle.
- **Side view**
  The images taken from the front left and right sides of the vehicle are displayed on the center display.
  The side view assists the driver in checking the front sides of the vehicle by displaying guide lines on the displayed image taken from the front left and right sides of the vehicle.
- **Rear view/rear wide view**
  The image from the rear of the vehicle is displayed on the center display.
  The image from the rear assists the driver in checking the rear of the vehicle by displaying guide lines on the displayed image taken from the rear of the vehicle.
- **Parking sensor**
  If there are any obstructions near the vehicle while the top view/side view is displayed, an obstruction detection indication turns on around the bumper in the center display.
  The parking sensors use ultrasonic sensors to detect obstructions around the vehicle when the vehicle is driven at low speeds, such as during garage or parallel parking, and notifies the driver of the approximate distance from the vehicle to the surrounding obstruction using sound and an obstruction detection indication.
  Refer to Parking Sensor System on page 4-263.
- **Rear Cross Traffic Alert (RCTA)**
  If there is the possibility of a collision with an approaching vehicle while the rear view/rear wide view is displayed, a warning is displayed on the center display.
  The Rear Cross Traffic Alert (RCTA) uses rear side radar sensor to detect vehicles approaching from the rear left and right sides of the vehicle, and it assists the driver in checking the rear of the vehicle while reversing by flashing the Blind Spot Monitoring (BSM) warning lights and activating the warning sound.

 *Some models.

Refer to Rear Cross Traffic Alert (RCTA) on page 4-145.

360°View Monitor Range



⚠ WARNING

Always confirm the safety of the area around the vehicle with the mirrors and directly with your eyes when driving:

The 360°View Monitor is an auxiliary device which assists the driver in checking the safety of the area around the vehicle.

The shooting range of the cameras and detection range of the sensors are limited. For example, the areas in black at the front and rear of the vehicle image and the seams where each of the camera images merge are blind spots where an obstruction may not be visible. In addition, the extended vehicle width lines and projected vehicle path lines are only to be used as references, and the images on the screen may differ from the actual conditions.

⚠ CAUTION

➢ *Do not use the 360°View Monitor under any of the following conditions.*

- *Icy or snow-covered roads.*
- *Tire chains or a temporary spare tire is installed.*
- *The front or rear doors are not fully closed.*
- *The vehicle is on a road incline.*
- *The door mirrors are retracted.*

- *Do not hit the front/rear camera, front bumper, liftgate, and door mirrors forcefully. The camera position or installation angle may shift.*
- *The cameras are waterproof. Do not disassemble, modify, or remove a camera.*
- *The camera cover is made of hard plastic, therefore do not apply oil film remover, organic solvents, wax, or coating agents. If any such agent gets on the camera cover, wipe it off using a soft cloth immediately.*
- *Do not rub the camera lens forcefully, or clean it with an abrasive or hard brush. Otherwise, it could scratch the camera lens and negatively affect the images.*
- *Consult an Authorized Mazda Dealer for repair, painting, or replacement of the front/rear camera, front bumper, liftgate and door mirrors.*
- *Heed the following cautions to assure that the 360°View Monitor operates normally.*
  - *Do not modify the vehicle suspensions or lower/raise the vehicle body, or both.*
  - *Always use tires of the specified type and size for the front and rear wheels. Consult an Authorized Mazda Dealer for tire replacement.*
- *When the display is cold, images may leave trails or the screen might be darker than usual, making it difficult to check the vehicle surroundings. Always confirm the safety at the front and around the vehicle visually when driving.*
- *The method for parking/stopping the vehicle using the 360°View Monitor differs depending on the road circumstances/conditions and the vehicle conditions. When and how much you turn the steering wheel will differ depending on the situation, therefore always check the vehicle surroundings directly with your eyes while using the system.*
  Also, before using the system, always make sure that the vehicle can be parked/stopped in the parking/stopping space.

NOTE

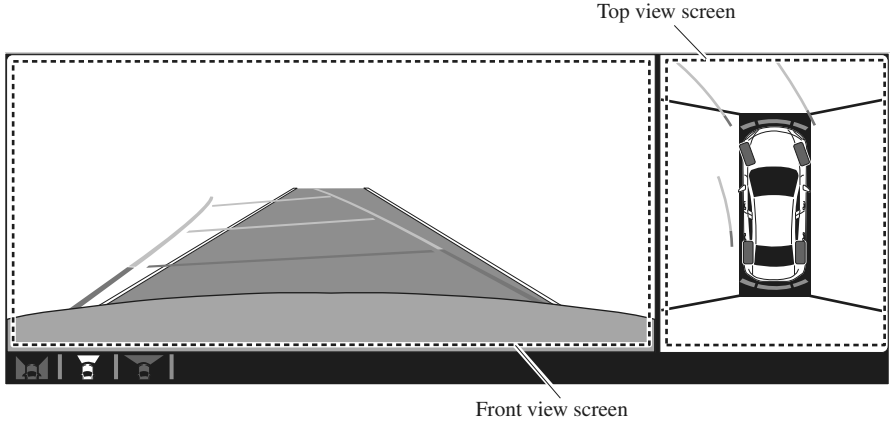
- *If there are water droplets, snow, or mud on the camera lens, wipe it off using a soft cloth. If the camera lens is especially dirty, wash it off with mild detergent.*
- *If the camera lens is touched or there is any dirt on it, it could affect the screen image. Wipe the lens using a soft cloth.*
- *If the area where the camera is installed, such as the front bumper, liftgate or door mirrors, has been damaged in a vehicle accident, the camera (position, installation angle) may have shifted. Always consult an Authorized Mazda Dealer to have the vehicle inspected.*

- *If the camera is subjected to excessive changes in temperature such as by pouring hot water on the camera during cold weather, the 360°View Monitor may not operate normally.*
- *If the lead-acid battery voltage is low, the screen might be temporarily difficult to view, however, this does not indicate a problem.*
- *The 360°View Monitor has limitations. Objects under the bumper or near both ends of the bumper cannot be displayed.*
- *Obstructions above the upper image range of the camera are not displayed.*
- *Under the following conditions, the screen might be difficult to view, however this does not indicate a problem.*
  - *The temperature near the lens is high/low.*
  - *Rainy conditions, water droplets on the camera, or high humidity.*
  - *Mud or foreign matter near the camera.*
  - *Extremely bright light such as sunlight or headlights hitting the camera lens directly.*
  - *The surroundings are illuminated by vehicle lights, fluorescent lights, or LED lights (display may flicker).*
  - *Extremely small dark or white dots appear on the screen (dots may flicker).*
- *Because the 360°View Monitor camera uses a special lens, the distance displayed on the screen differs from the actual distance.*
- *Obstructions displayed on the screen may appear differently than in actuality. (Obstructions may appear fallen, larger, or longer than they actually are.)*
- *Do not apply stickers to a camera or the area around it. In addition, do not install accessories or an illuminated number/character license plate to the area around a camera. Otherwise, the camera may not correctly display the surrounding conditions.*
- *Only rear and rear wide images displayed on the monitor from the 360° view monitor camera are reversed images (mirror images).*
- ***Free/open source software information***
  This product includes free/open sources. Information about the licensing and source code is available at the following URL.
  https://www.denso.com/global/en/opensource/svss/mazda/

▼ Types of Images Displayed on the Screen

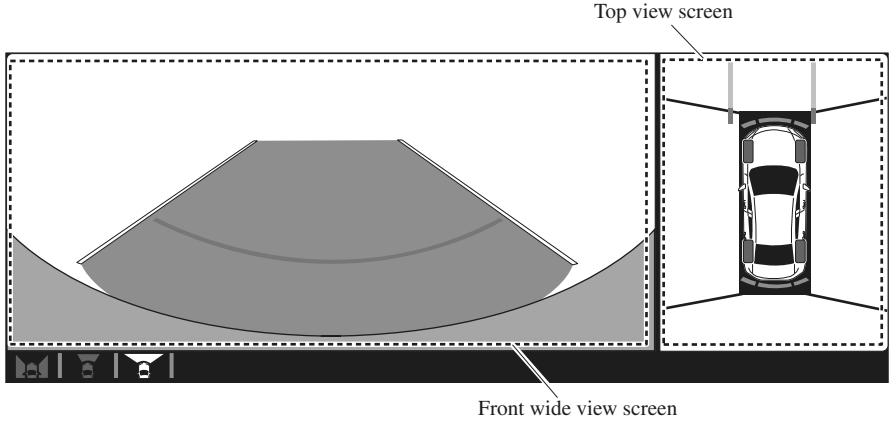
Top view/Front view

Displays the image of the area around the vehicle and the vehicle front.



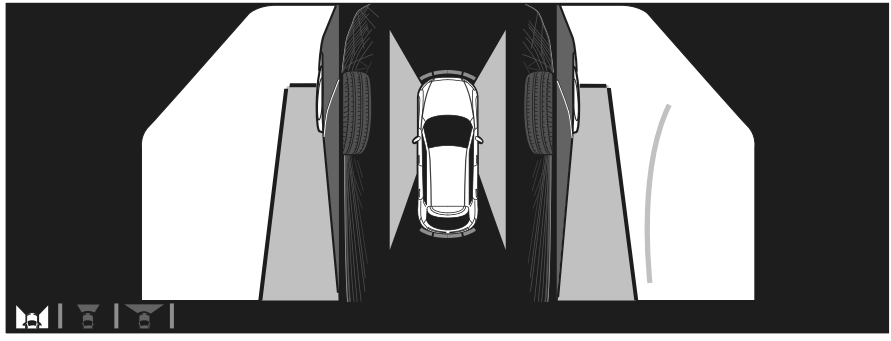
Top view/Front wide view

Displays the image of the area around the vehicle and the front of the vehicle (wide-area).



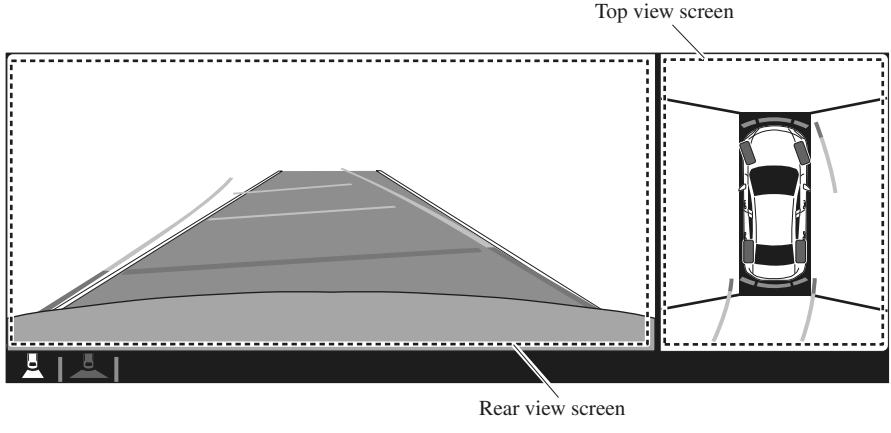
Side view

Displays the image of the left and right sides of the vehicle.



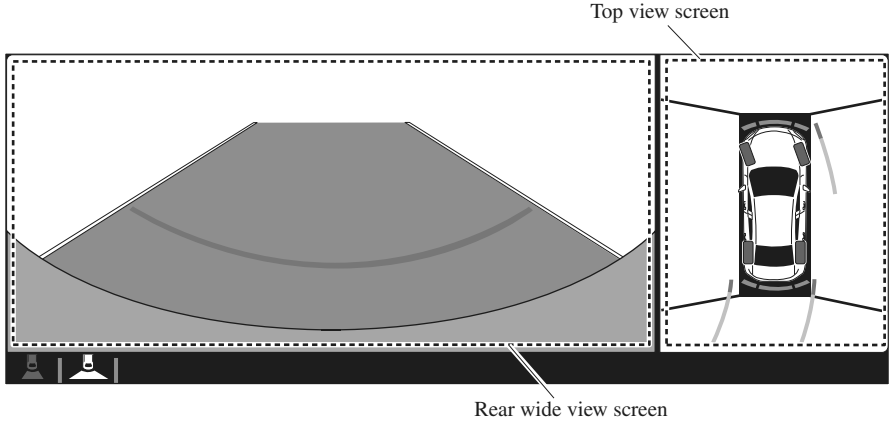
Top view/Rear view

Displays the image of the area around the vehicle and the rear of the vehicle.



Top view/Rear wide view

Displays the image of the area around the vehicle and the rear of the vehicle (wide-area).



▼ How to Use the System

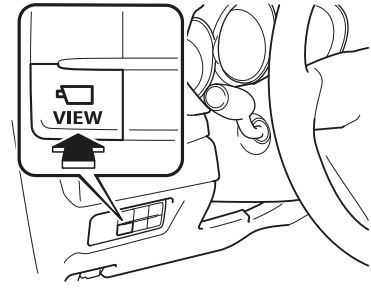
Top view/Front view, Top view/Front wide view, Side view

Indication

Images are displayed on the screen when the 360°View Monitor switch is pressed with all of the following conditions met.

・The ignition is switched ON.

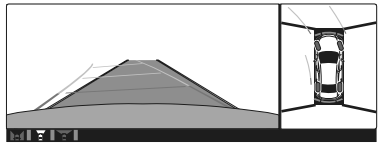
・The selector lever is in a position other than R.



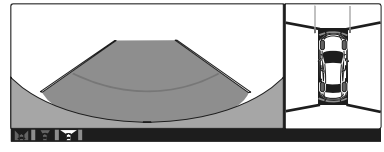
Display switching

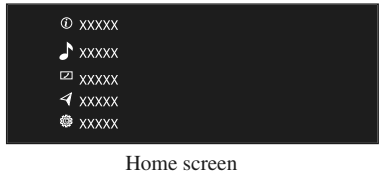
The displayed screen can be changed each time the 360°view monitor switch is pressed.

Top view/Front view

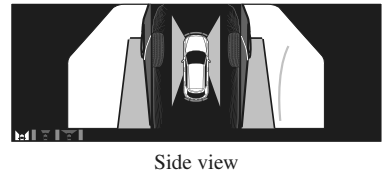


Top view/Front wide view





Home screen



Side view

NOTE

- *When the selector lever is in R position, the displayed screen does not switch to the top view/front view, top view/front wide view, or the side view.*
- *Display of the top view/front view, top view/front wide view, or the side view stops even with the display conditions met if any of the following conditions occurs.*
  - *When a switch around the commander knob is pressed.*
  - *The selector lever is shifted to P position (displayed when the selector lever is in a position other than P).*
  - ***(Displayed when vehicle speed is less than 15 km/h (9.3 mph))***
    - *4 minutes and 30 seconds have passed.*
    - *The vehicle speed is about 15 km/h (9.3 mph) or faster.*
  - ***(Displayed when the vehicle speed is about 15 km/h (9.3 mph) or faster)***

・The vehicle speed is about 15 km/h (9.3 mph) or faster after 8 seconds have passed since pressing the 360°View Monitor switch.
・4 minutes and 22 seconds have passed from the point when the vehicle speed was less than 15 km/h (9.3 mph) after 8 seconds have passed since pressing the 360°View Monitor switch.

・The 360°View Monitor settings can be changed as follows.
Refer to the Settings section in the Mazda Connect Owner's Manual.

・Automatic display of the 360°View Monitor when the ultrasonic sensor detects an obstruction.
・Automatic display of the 360°View Monitor when the ignition is switched ON.
・Screen priority level when the system launches.

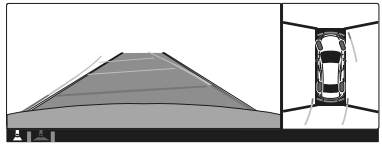
Top view/Rear view, Top view/Rear wide view

The top view/rear view, top view/rear wide view displays when all of the following conditions are met.

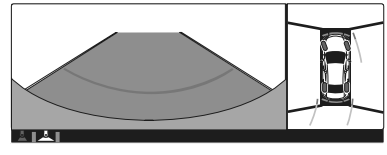
・The ignition is switched ON.
・Selector lever is in R position.

Display switching
The displayed screen can be changed each time the 360°view monitor switch is pressed.

Top view/Rear view



Top view/Rear wide view



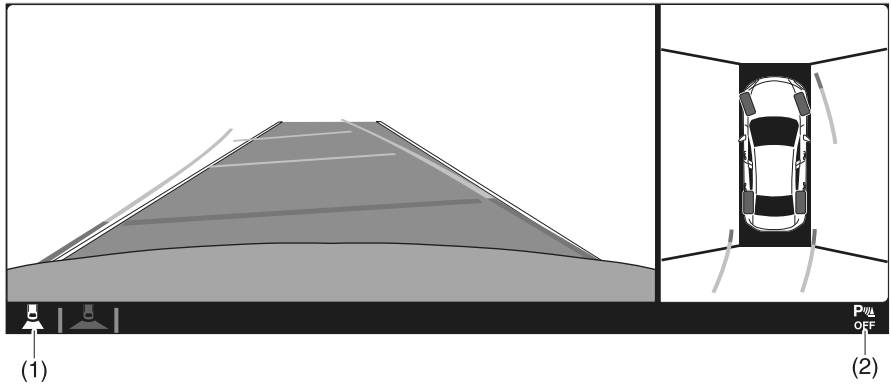
NOTE

・The top view/rear view and top view/rear wide view automatically display whether or not the 360°View Monitor switch is turned on or off when shifting the selector lever to R position.
・The top view/rear view and top view/rear wide view displays the previously displayed screen.
・The setting can be changed to display the top view/front view when shifting from reverse to a forward gear without operating the 360°View Monitor switch to check the front of the vehicle while parallel parking.
Refer to the Settings section in the Mazda Connect Owner's Manual.

Screen operation/icon

⚠ WARNING

Always stop the vehicle when adjusting the 360°View Monitor image quality.
Do not adjust the 360°View Monitor image quality while driving. If you adjust the 360°View Monitor image quality (such as brightness, contrast, tone, and color density) while driving, it could lead to an unexpected accident.

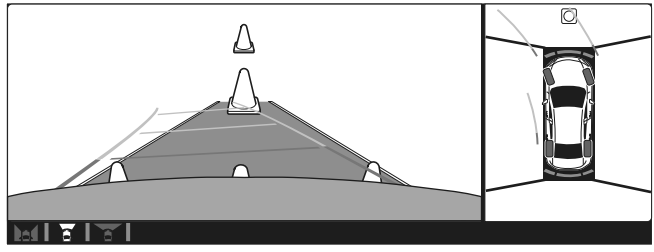


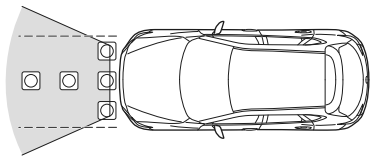
	Display/Icon	Content
(1)	View status icon	Indicates which image is displayed among the front view/front wide view/side view/rear view/rear wide view.
(2)	Parking sensor status icon	Indicates that the parking sensor has a problem or it is switched off.

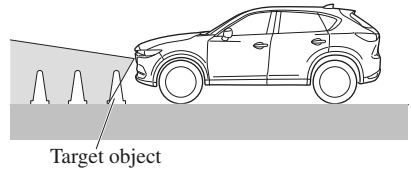
▼ Top View/Front View

Use the top view/front view to assist in checking the safety of the surrounding area when accelerating from a stop, parking, or stopping the vehicle.

Display range



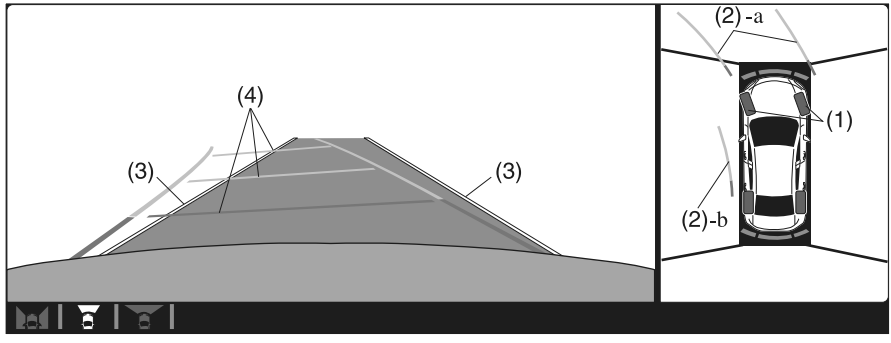




NOTE

- *In the top view screen, the areas in black at the front and rear of the vehicle image and the seams where each of the camera images merge are blind spots.*
- *Because images displayed in the top view screen are processed from each camera, the top view screen may display in the following ways.*
  - *If an image containing an object with a conspicuous color is picked up by any of the cameras, the screen area for each camera may be affected and it may display in that color.*
  - *Obstructions displayed in the front view may not display on the top view screen.*
  - *If the position or angle of each camera changes due to tilting of the vehicle, the image may appear distorted.*
  - *Lines on the road may appear distorted at the seams where each of the camera images merge.*
  - *The screen area for each camera may appear bright/dark depending on the illumination level around any of the cameras.*

Viewing the screen



	Display/Icon	Content
(1)	Tire icon	Indicates the tire direction. Moves in conjunction with the steering wheel operation.
(2)	Projected vehicle path lines (yellow & red)	Indicates the approximate projected path of the vehicle. Moves in conjunction with the steering wheel operation. a) Indicates the path where the edge of the front bumper is expected to travel. b) Indicates the path where the inner side of the vehicle is expected to travel.
(3)	Extended vehicle width lines (blue)	Indicates the approximate width of the vehicle.
(4)	Projected vehicle path distance guide lines (yellow & red)	Indicates the distance (from front end of bumper) in front of the vehicle. • The red line indicates the point about 0.5 m (20 in) from the front end of the bumper. • The yellow lines indicate the points about 1.0 m (39 in) and 2.0 m (79 in) from the front end of the bumper.

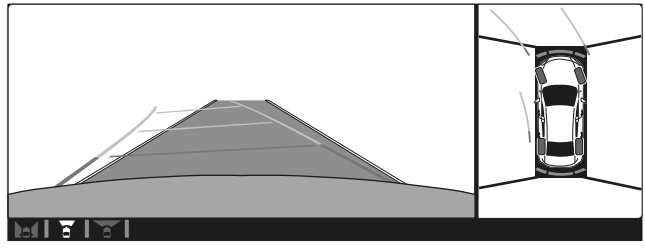
⚠ CAUTION

The parking sensor detection range has limitations. For example, obstructions closing in from the side and objects short in height may not be detected. Always confirm the safety around the vehicle visually when driving.
For details, refer to the parking sensor obstruction detection indication and warning sound. Refer to Parking Sensor System on page 4-263.

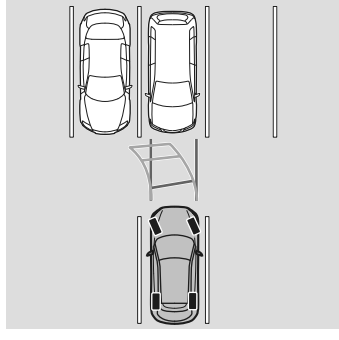
NOTE
The setting can be changed so that the projected vehicle path lines are not displayed. Refer to the Settings section in the Mazda Connect Owner's Manual.

How to use the projected vehicle path line function

(Screen display)



(Actual condition)

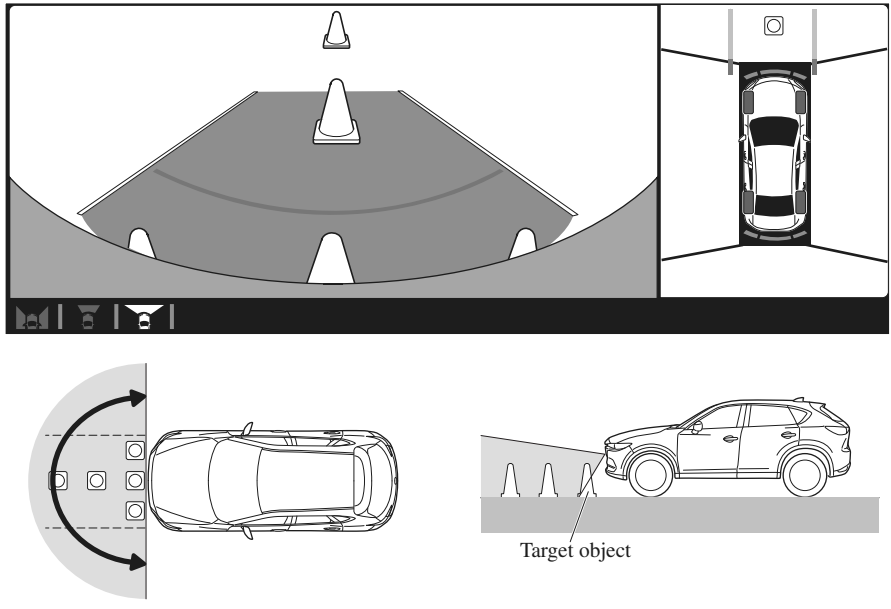


Make sure that there are no obstructions within the projected vehicle path lines.
Drive the vehicle forward while turning the steering wheel so that no obstructions come within the projected vehicle path lines.

▼ Top View/Front Wide View

Use the top view/front wide view to assist in checking the safety of the surrounding area when accelerating from a stop or entering a T-shaped intersection and intersection.

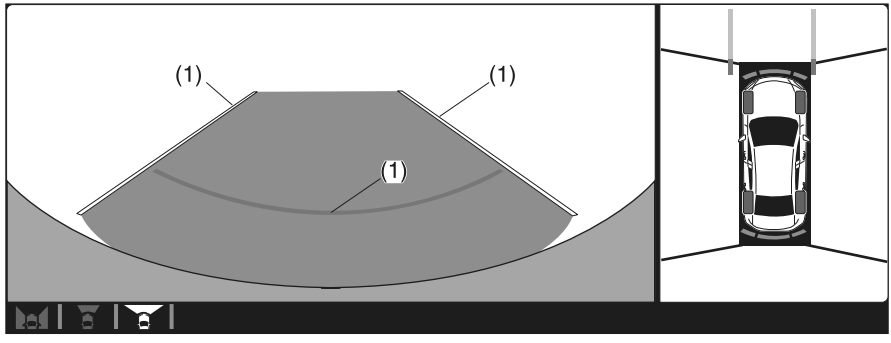
Display range



NOTE

- *In the top view screen, the areas in black at the front and rear of the vehicle image and the seams where each of the camera images merge are blind spots.*
- *Because images displayed in the top view screen are processed from each camera, the top view screen may display in the following ways.*
  - *If an image containing an object with a conspicuous color is picked up by any of the cameras, the screen area for each camera may be affected and it may display in that color.*
  - *Obstructions displayed in the front view may not display on the top view screen.*
  - *If the position or angle of each camera changes due to tilting of the vehicle, the image may appear distorted.*
  - *Lines on the road may appear distorted at the seams where each of the camera images merge.*
  - *The screen area for each camera may appear bright/dark depending on the illumination level around any of the cameras.*

Viewing the screen



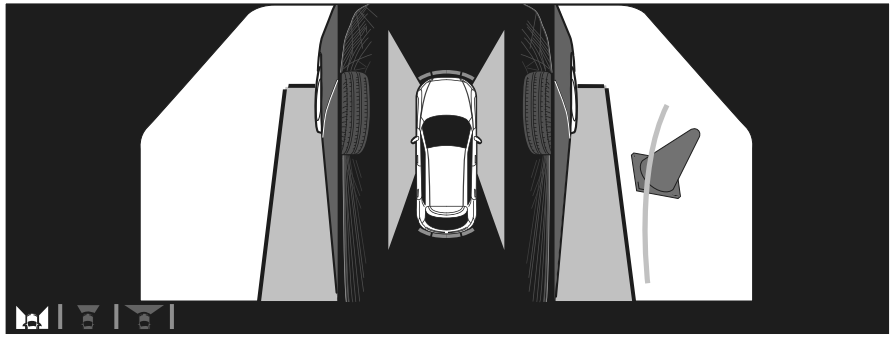
	Display/Icon	Content
(1)	Extended vehicle width lines and distance guide lines (blue & red)	Indicates the approximate width of the vehicle and the distance (from front end of bumper) in front of the vehicle. ・ The red lines indicate the points up to about 0.5 m (20 in) from the front end of the bumper.

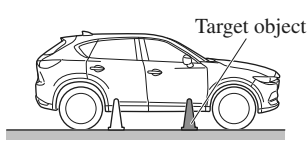
NOTE
The front wide view screen displays the image in front of the vehicle at a wide angle and corrects the image to help detect approaching obstructions from the side. Therefore, it differs from the actual view.

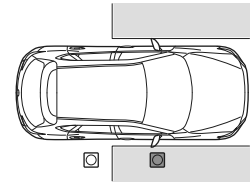
▼ Side View

Use the side view to assist in checking the safety of the surrounding area when accelerating from a stop, parking, or stopping the vehicle.

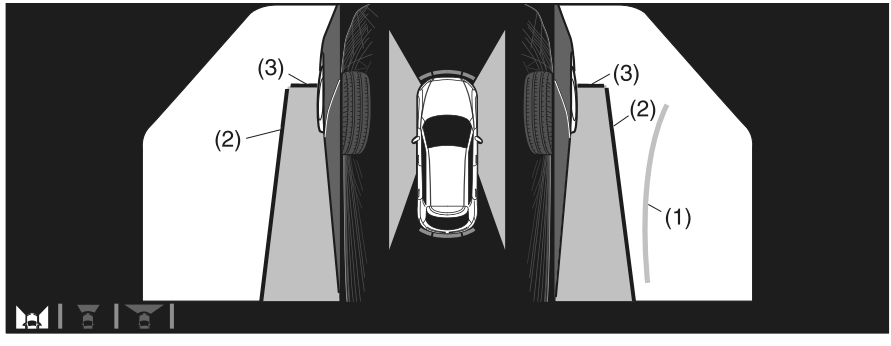
Display range







Viewing the screen



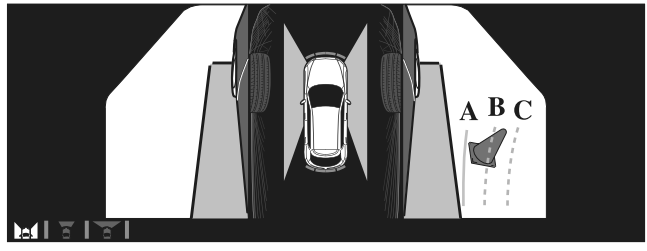
	Display/Icon	Content
(1)	Projected vehicle path lines (yellow)	Indicates the approximate projected path of the vehicle. Moves in conjunction with the steering wheel operation. The projected vehicle path lines (yellow) indicate the path the inner side of the vehicle is expected to travel.
(2)	Vehicle parallel guide lines (blue)	Indicates the approximate vehicle width including the door mirrors.

	Display/Icon	Content
(3)	Vehicle front end guide lines (blue)	Indicates the point about 0.25 m (9.8 in) from the front edge of the vehicle (front edge of the bumper).

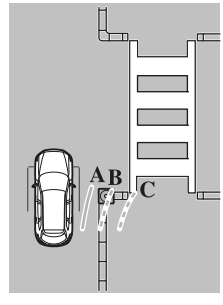
NOTE
The setting can be changed so that the projected vehicle path lines are not displayed.
Refer to the Settings section in the Mazda Connect Owner's Manual.

How to use the projected vehicle path line function

(Screen display)



(Actual condition)



Make sure that there are no obstructions within the projected vehicle path lines.
Turn the steering wheel so that the projected vehicle path lines travel inside of the obstruction (A), and drive the vehicle forward until it passes the obstruction.
If the projected vehicle path lines are on an obstruction (B) or outside of the obstruction (C), the vehicle may contact the obstruction when turning the vehicle sharply.

⚠ CAUTION

- *The parking sensor detection range has limitations. For example, obstructions closing in from the side and objects short in height may not be detected. Always confirm the safety around the vehicle visually when driving.*
  For details, refer to the parking sensor obstruction detection indication and warning sound.

Refer to Parking Sensor System on page 4-263.

➢ *Do not turn the steering wheel any more until the vehicle has passed the obstruction, even if the obstruction is not visible on the side view image. If the steering wheel is turned even more, the vehicle may contact the obstruction if it is turned sharply.*

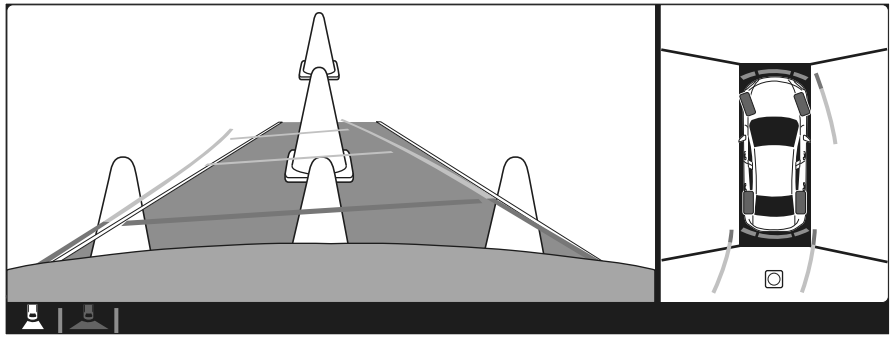
NOTE

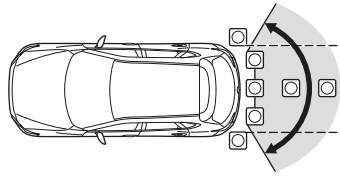
- *Because there might be a difference between the image displayed on the screen and the actual conditions, always check the safety of the surrounding area using the mirrors and directly with your eyes when driving.*
- *Even though the object displayed on the screen, such as a road curb or a division line of a parking space, and the vehicle parallel guide lines appear parallel, they may not actually be parallel.*

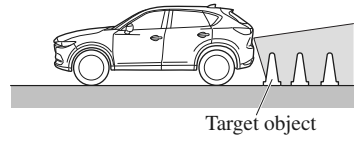
▼ Top View/Rear View

Use the top view/rear view to assist in checking the safety of the surrounding area when accelerating from a stop, parking, or stopping the vehicle.

Range of displayed screen image





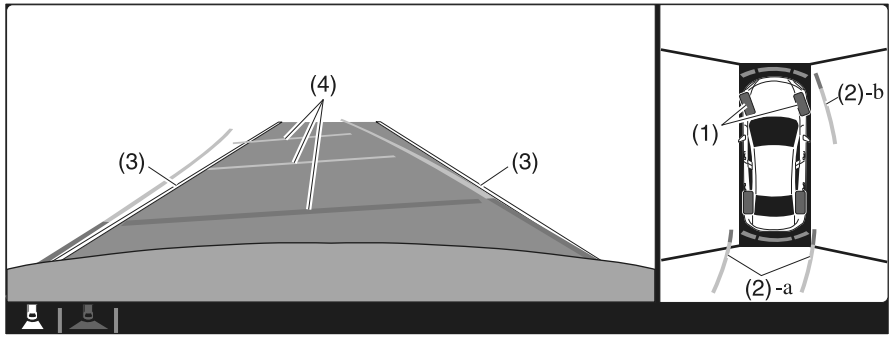


NOTE

- *In the top view screen, the areas in black at the front and rear of the vehicle image and the seams where each of the camera images merge are blind spots.*
- *Because images displayed in the top view screen are processed from each camera, the top view screen may display in the following ways.*

- *If an image containing an object with a conspicuous color is picked up by any of the cameras, the screen area for each camera may be affected and it may display in that color.*
- *Obstructions displayed in the rear view may not display on the top view screen.*
- *If the position or angle of each camera changes due to tilting of the vehicle, the image may appear distorted.*
- *Lines on the road may appear distorted at the seams where each of the camera images merge.*
- *The screen area for each camera may appear bright/dark depending on the illumination level around any of the cameras.*

Viewing the screen



	Display/Icon	Content
(1)	Tire icon	Indicates the tire direction. Moves in conjunction with the steering wheel operation.
(2)	Projected vehicle path lines (yellow & red)	Indicates the approximate projected path of the vehicle. Moves in conjunction with the steering wheel operation. a) Indicates the path where the edge of the rear bumper is expected to travel. b) Indicates the path where the outer side of the vehicle is expected to travel.
(3)	Extended vehicle width lines (blue)	These guide lines indicate the approximate width of the vehicle.
(4)	Projected vehicle path distance guide lines (yellow & red)	These guide lines indicate the approximate distance to a point measured from the rear of the vehicle (from the end of the bumper). ・ The red line indicates the point about 0.5 m (20 in) from the rear end of the bumper. ・ The yellow lines indicate the points about 1.0 m (39 in) and 2.0 m (79 in) from the rear end of the bumper.

NOTE

The setting can be changed so that the projected vehicle path lines are not displayed. Refer to the Settings section in the Mazda Connect Owner's Manual.

How to use the projected vehicle path line function

⚠ CAUTION

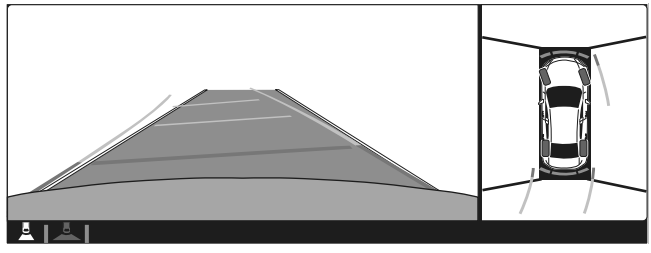
- *The front of the vehicle swings out wide when turning the steering wheel while reversing. Maintain sufficient distance between the vehicle and an obstruction.*
- *The parking sensor detection range has limitations. For example, obstructions closing in from the side and objects short in height may not be detected. Always confirm the safety around the vehicle visually when driving.*
  For details, refer to the parking sensor obstruction detection indication and warning sound.
  Refer to Parking Sensor System on page 4-263.

NOTE

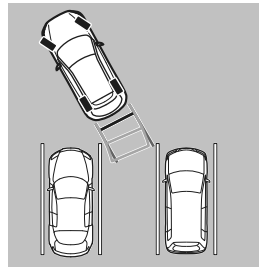
- *Because there might be a difference between the image displayed on the screen, such as indicated in the following, and the actual conditions when parking, always check the safety at the rear of the vehicle and the surrounding area directly with your eyes.*
  - *Even though the back end of the parking space (or garage) displayed on the screen and distance guide lines appear parallel, they may not actually be parallel.*
  - *When parking in a space with a division line on only one side of the parking space, even though the division line and the vehicle width guide line appear parallel, they may not actually be parallel.*
- *The following shows an example of vehicle parking with the steering wheel turned to the left while backing up the vehicle. When backing into a parking space from the opposite direction, the steering operation is reversed.*

1. Back the vehicle into the parking space by turning the steering wheel so that the vehicle enters the center of the parking space.

(Screen display)



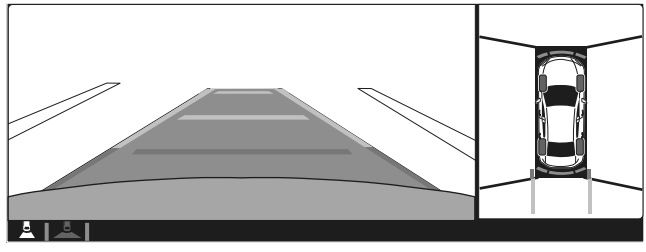
(Actual condition)



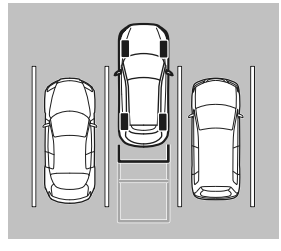
2. After the vehicle starts entering the parking space, stop and adjust the steering wheel so that the distance between the vehicle width lines and the sides of the parking space on the left and right are roughly equal, and then continue backing up slowly.

3. Once the vehicle width lines and the sides of the parking space on the left and right are parallel, straighten the wheels and back the vehicle slowly into the parking space. Continue checking the vehicle's surroundings and then stop the vehicle in the best possible position. (If the parking space has division lines, check whether the vehicle width guide lines are parallel to them.)

(Screen display)



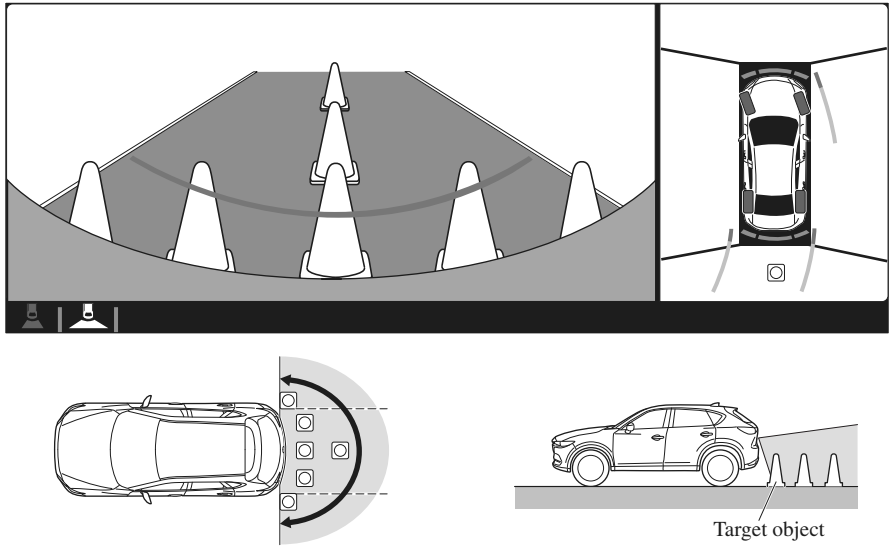
(Actual condition)



▼ Top View/Rear Wide View

Use the top view/rear wide view to assist in checking the safety of the surrounding area when accelerating from a stop, parking, or stopping the vehicle.

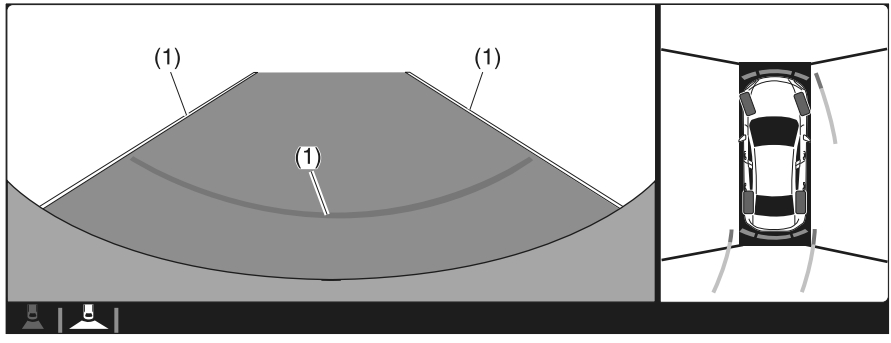
Range of displayed screen image



NOTE

- *In the top view screen, the areas in black at the front and rear of the vehicle image and the seams where each of the camera images merge are blind spots.*
- *Because images displayed in the top view screen are processed from each camera, the top view screen may display in the following ways.*
  - *If an image containing an object with a conspicuous color is picked up by any of the cameras, the screen area for each camera may be affected and it may display in that color.*
  - *Obstructions displayed in the front view may not display on the top view screen.*
  - *If the position or angle of each camera changes due to tilting of the vehicle, the image may appear distorted.*
  - *Lines on the road may appear distorted at the seams where each of the camera images merge.*
  - *The screen area for each camera may appear bright/dark depending on the illumination level around any of the cameras.*

Viewing the screen



	Display/Icon	Content
(1)	Extended vehicle width lines and distance guide lines (blue & red)	These guide lines indicate the approximate width of the vehicle and distance to a point measured from the rear of the vehicle (from the end of the bumper). ・ The red lines indicate the points up to about 0.5 m (20 in) from the rear end of the bumper.

NOTE

The top view/rear wide view screen displays the image at the rear of the vehicle at a wide angle and corrects the image to help detect approaching obstructions from the side. Therefore, it differs from the actual view.

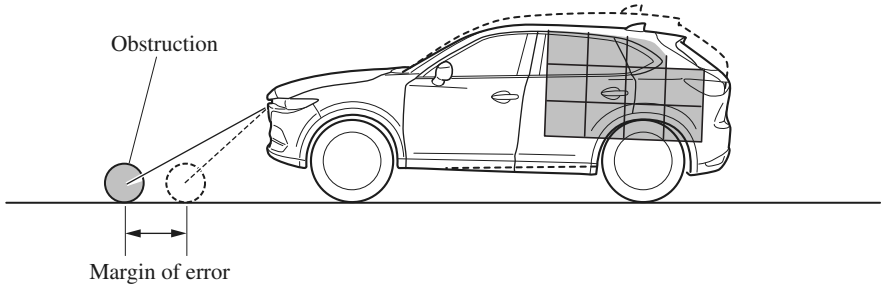
▼ Margin of Error Between Road Surface on Screen and Actual Road Surface

There might be some margin of error between the road surface appearing on the screen and the actual road surface. A margin of error in the perceived distance could lead to an accident, therefore be aware of the following conditions which can more easily produce errors in the perceived distance.

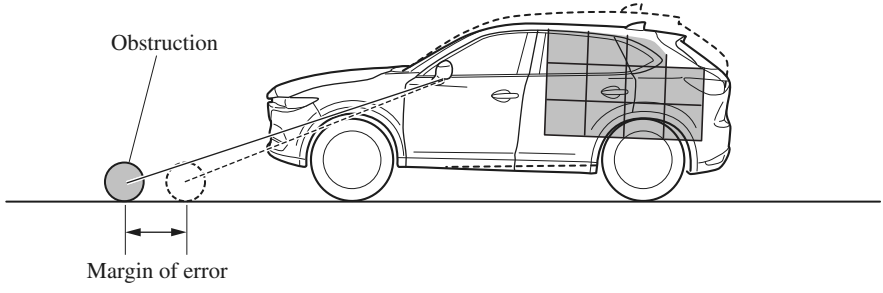
The vehicle tilts due to weight of passengers and cargo.

If the vehicle is tilted, obstructions picked up by a camera can appear farther or closer than the actual distance from the vehicle.

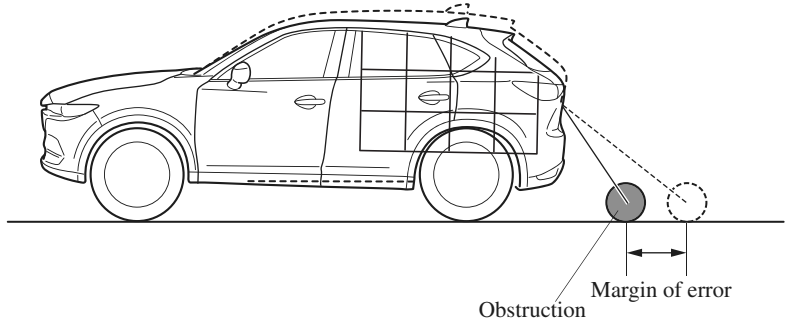
Front camera



Side camera



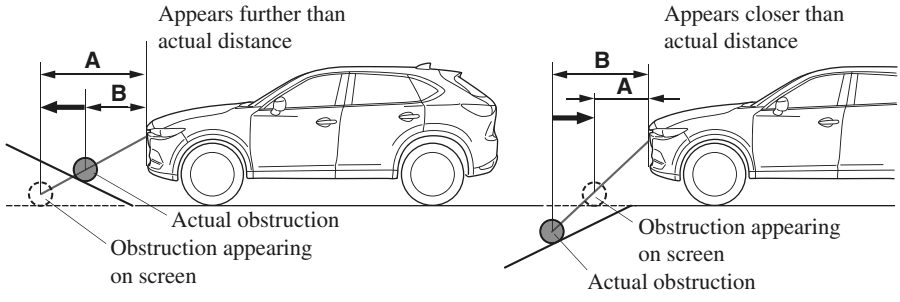
Rear camera



There is a steep up or down grade in the road at the front or rear of the vehicle

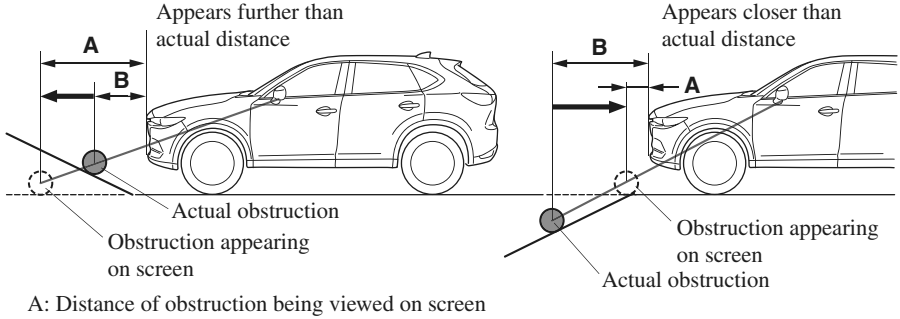
If there is a steep up or down grade in the road at the front or rear of the vehicle, obstructions picked up by the camera can appear farther or closer than the actual distance from the vehicle.

Front camera



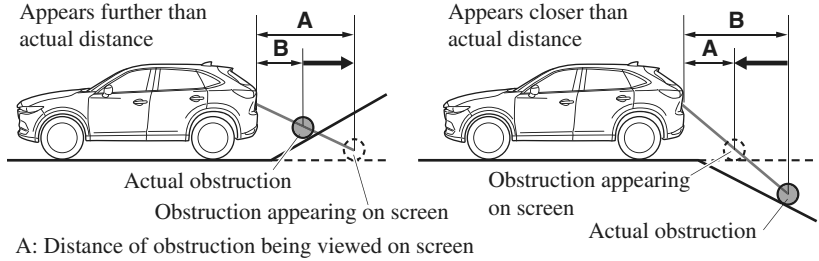
A: Distance of obstruction being viewed on screen
B: Actual distance of obstruction from vehicle

Side camera



A: Distance of obstruction being viewed on screen
B: Actual distance of obstruction from vehicle

Rear camera



A: Distance of obstruction being viewed on screen
B: Actual distance of obstruction from vehicle

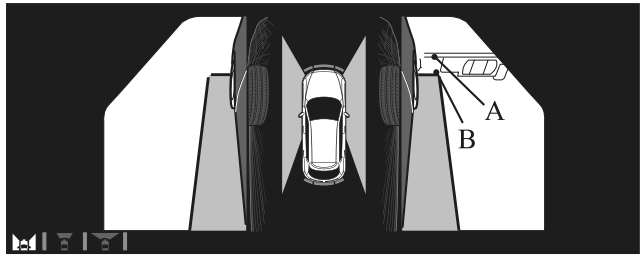
NOTE
If the vehicle is on a slope, obstructions taken by the camera can appear farther or closer than the actual distance from the vehicle.

Three-dimensional object at vehicle front or rear

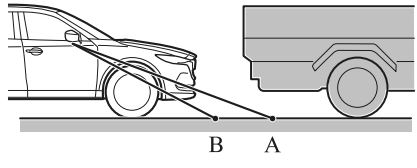
Because the vehicle front end guide lines (side camera) or the distance guide lines (rear camera) are displayed based on a flat surface, the distance to the three-dimensional object displayed on the screen is different from the actual distance.

Side camera

(Screen display)

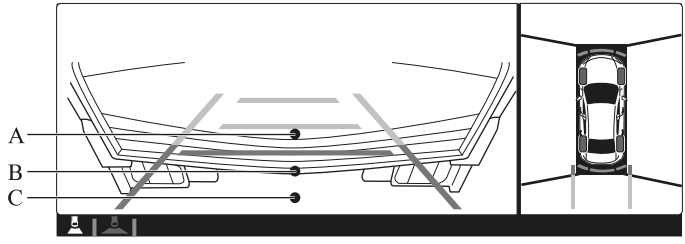


(Actual condition)



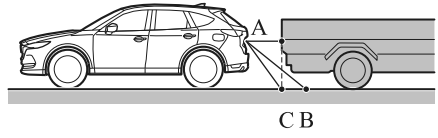
Rear camera

(Screen display)



Sensed distance on screen A > B > C

(Actual condition)



Actual distance B > C = A

▼ System Problem Indication

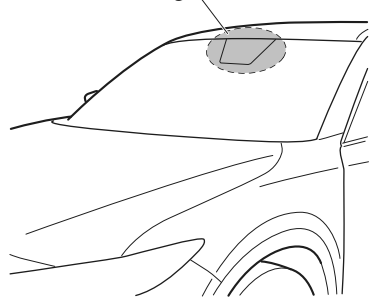
Center display indication	Cause	Action to be taken
“No camera signal.” is displayed	The control unit might be damaged.	Have your vehicle inspected by an Authorized Mazda Dealer.
Screen is pitch-black and blank	The camera might be damaged.	

Forward Sensing Camera (FSC)*

Your vehicle is equipped with a Forward Sensing Camera (FSC). The Forward Sensing Camera (FSC) is positioned near the rearview mirror and used by the following systems.

- High Beam Control System (HBC)
- Driver Attention Alert (DAA)
- Lane-keep Assist System (LAS) & Lane Departure Warning System (LDWS)
- Traffic Sign Recognition System (TSR)
- Advanced Smart City Brake Support (Advanced SCBS)
- Smart City Brake Support [Forward] (SCBS F)
- Mazda Radar Cruise Control with Stop & Go function (MRCC with Stop & Go function)
- Cruising & Traffic Support (CTS)
- Smart Brake Support (SBS)

Forward Sensing Camera (FSC)



The Forward Sensing Camera (FSC) determines the conditions ahead of the vehicle while traveling at night and detects traffic lanes. The distance in which the Forward Sensing Camera (FSC) can detect objects varies depending on the surrounding conditions.

⚠ WARNING

Do not modify the suspension:
If the vehicle height or inclination is changed, the system will not be able to correctly detect vehicles ahead. This will result in the system not operating normally or mistakenly operating, which could cause a serious accident.

⚠ CAUTION

➢ *Do not apply accessories, stickers or film to the windshield near the Forward Sensing Camera (FSC).*

 *Some models.

If the area in front of the Forward Sensing Camera (FSC) lens is obstructed, it will cause the system to not operate correctly. Consequently, each system may not operate normally which could lead to an unexpected accident.

- *Do not disassemble or modify the Forward Sensing Camera (FSC).*
  Disassembly or modification of the Forward Sensing Camera (FSC) will cause a malfunction or mistaken operation. Consequently, each system may not operate normally which could lead to an unexpected accident.
- *Heed the following cautions to assure the correct operation of the Forward Sensing Camera (FSC).*
  - *Be careful not to scratch the Forward Sensing Camera (FSC) lens or allow it to get dirty.*
  - *Do not remove the Forward Sensing Camera (FSC) cover.*
  - *Do not place objects on the dashboard which reflect light.*
  - *Always keep the windshield glass around the camera clean by removing dirt or fogging. Use the windshield defroster to remove fogging on the windshield.*
  - *Consult an Authorized Mazda Dealer regarding cleaning the interior side of the windshield around the Forward Sensing Camera (FSC).*
  - *Consult an Authorized Mazda Dealer before performing repairs around the Forward Sensing Camera (FSC).*
  - *The Forward Sensing Camera (FSC) is installed to the windshield. Consult an Authorized Mazda Dealer for windshield repair and replacement.*
  - *When cleaning the windshield, do not allow glass cleaners or similar cleaning fluids to get on the Forward Sensing Camera (FSC) lens. In addition, do not touch the Forward Sensing Camera (FSC) lens.*
  - *When performing repairs around the rearview mirror, consult an Authorized Mazda Dealer.*
  - *Consult an Authorized Mazda Dealer regarding cleaning of the camera lens.*
  - *Do not hit or apply strong force to the Forward Sensing Camera (FSC) or the area around it. If the Forward Sensing Camera (FSC) is severely hit or if there are cracks or damage caused by flying gravel or debris in the area around it, stop using the following systems and consult an Authorized Mazda Dealer.*
    - *High Beam Control System (HBC)*
    - *Driver Attention Alert (DAA)*
    - *Lane-keep Assist System (LAS) & Lane Departure Warning System (LDWS)*
    - *Traffic Sign Recognition System (TSR)*
    - *Advanced Smart City Brake Support (Advanced SCBS)*
    - *Smart City Brake Support [Forward] (SCBS F)*
    - *Mazda Radar Cruise Control with Stop & Go function (MRCC with Stop & Go function)*
    - *Cruising & Traffic Support (CTS)*
    - *Smart Brake Support (SBS)*

- *The direction in which the Forward Sensing Camera (FSC) is pointed has been finely adjusted. Do not change the installation position of the Forward Sensing Camera (FSC) or remove it. Otherwise, it could result in damage or malfunction.*

- *Always use tires for all wheels that are of the specified size, and the same manufacturer, brand, and tread pattern. In addition, do not use tires with significantly different wear patterns on the same vehicle as the system may not operate normally.*
- *The Forward Sensing Camera (FSC) includes a function for detecting a soiled windshield and informing the driver, however, depending on the conditions, it may not detect plastic shopping bags, ice or snow on the windshield. In such cases, the system cannot accurately determine a vehicle ahead and may not be able to operate normally. Always drive carefully and pay attention to the road ahead.*

NOTE

- *In the following cases, the Forward Sensing Camera (FSC) cannot detect target objects correctly, and each system may be unable to operate normally.*
  - *The height of the vehicle ahead is low.*
  - *You drive your vehicle at the same speed as the vehicle ahead.*
  - *Headlights are not turned on during the night or when going through a tunnel.*
- *In the following cases, the Forward Sensing Camera (FSC) may not be able to detect target objects correctly.*
  - *Under bad weather condition, such as rain, fog and snow.*
  - *The window washer is being used or the windshield wipers are not used when it's raining.*
  - *Ice, fog, snow, frost, rainfall, dirt, or foreign matter such as a plastic bag is stuck on the windshield.*
  - *Trucks with low loading platforms and vehicles with an extremely low or high profile.*
  - *When driving next to walls with no patterning (including fences and longitudinally striped walls).*
  - *The taillights of the vehicle ahead are turned off.*
  - *A vehicle is outside the illumination range of the headlights.*
  - *The vehicle is making a sharp turn, or ascending or descending a steep slope.*
  - *Entering or exiting a tunnel.*
  - *Heavy luggage is loaded causing the vehicle to tilt.*
  - *Strong light is shone at the front of the vehicle (back light or high-beam light from on-coming vehicles).*
  - *There are many light emitters on the vehicle ahead.*
  - *When the vehicle ahead is not equipped with taillights or the taillights are turned off at nighttime.*
  - *Elongated luggage or cargo is loaded onto installed roof rails and covers the Forward Sensing Camera (FSC).*

- *Exhaust gas from the vehicle in front, sand, snow, and water vapor rising from manholes and grating, and water splashed into the air.*
- *When towing a malfunctioning vehicle.*
- *The vehicle is driven with tires having significantly different wear.*
- *The vehicle is driven on down slopes or bumpy roads.*
- *There are water puddles on the road.*
- *The surroundings are dark such as during the night, early evening, or early morning, or in a tunnel or indoor parking lot.*
- *The illumination brightness of the headlights is reduced or the headlight illumination is weakened due to dirt or a deviated optical axis.*
- *The target object enters the blind spot of the Forward Sensing Camera (FSC).*
- *A person or object bursts onto the road from the shoulder or cuts right in front of you.*
- *You change lanes and approach a vehicle ahead.*
- *When driving extremely close to the target object.*
- *Tire chains or a temporary spare tire is installed.*
- *The vehicle ahead has a special shape. For example, a vehicle towing a trailer house or a boat, or a vehicle carrier carrying a vehicle with its front pointed rearward.*

- *If the Forward Sensing Camera (FSC) cannot operate normally due to backlight or fog, the system functions related to the Forward Sensing Camera (FSC) are temporarily stopped and the following warning lights turn on. However, this does not indicate a malfunction.*
  - *High Beam Control System (HBC) warning light (amber)*
  - *Lane-keep Assist System (LAS) & Lane Departure Warning System (LDWS) warning indication*
  - *Mazda Radar Cruise Control with Stop & Go function (MRCC with Stop & Go function) warning indication*
  - *Cruising & Traffic Support (CTS) warning indication*
  - *Smart Brake Support/Smart City Brake Support (SBS/SCBS) warning indication/ warning light (amber)*
- *If the Forward Sensing Camera (FSC) cannot operate normally due to high temperatures, the system functions related to the Forward Sensing Camera (FSC) are temporarily stopped and the following warning lights turn on. However, this does not indicate a malfunction. Cool down the area around the Forward Sensing Camera (FSC) such as by turning on the air conditioner.*
  - *High Beam Control System (HBC) warning light (amber)*
  - *Lane-keep Assist System (LAS) & Lane Departure Warning System (LDWS) warning indication*

- *Mazda Radar Cruise Control with Stop & Go function (MRCC with Stop & Go function) warning indication*
- *Cruising & Traffic Support (CTS) warning indication*
- *Smart Brake Support/Smart City Brake Support (SBS/SCBS) warning indication/ warning light (amber)*

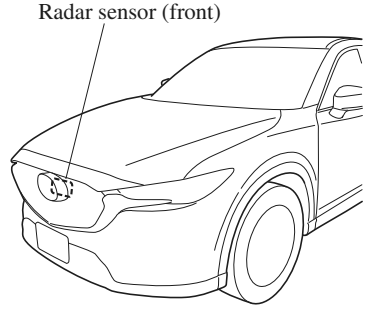
- *If the Forward Sensing Camera (FSC) detects that the windshield is dirty or foggy, the system functions related to the Forward Sensing Camera (FSC) are temporarily stopped and the following warning lights turn on. However, this does not indicate a problem. Remove the dirt from the windshield or press the defroster switch and defog the windshield.*
  - *High Beam Control System (HBC) warning light (amber)*
  - *Lane-keep Assist System (LAS) & Lane Departure Warning System (LDWS) warning indication*
  - *Mazda Radar Cruise Control with Stop & Go function (MRCC with Stop & Go function) warning indication*
  - *Cruising & Traffic Support (CTS) warning indication*
  - *Smart Brake Support/Smart City Brake Support (SBS/SCBS) warning indication/ warning light (amber)*
- *If there are recognizable cracks or damage caused by flying gravel or debris on the windshield, always have the windshield replaced. Consult an Authorized Mazda Dealer for replacement.*
- ***(With Advanced Smart City Brake Support (Advanced SCBS))***
  - *The Forward Sensing Camera (FSC) recognizes pedestrians when all of the following conditions are met:*
    - *The height of a pedestrian is about 1 to 2 meters.*
    - *An outline such as the head, both shoulders, or the legs can be determined.*
  - *In the following cases, the Forward Sensing Camera (FSC) may not be able to detect target objects correctly:*
    - *Multiple pedestrians are walking, or there are groups of people.*
    - *A pedestrian is close to a separate object.*
    - *A pedestrian is crouching, lying, or slouching.*
    - *A pedestrian suddenly jumps into the road right in front of the vehicle.*
    - *A pedestrian opens an umbrella, or is carrying large baggage or articles.*
    - *A pedestrian is in a dark location such as during the night, or blends into the background by wearing clothes matching the background color.*

Radar Sensor (Front)*

Your vehicle is equipped with a radar sensor (front).
The following systems also use the radar sensor (front).

- Distance Recognition Support System (DRSS)
- Mazda Radar Cruise Control with Stop & Go function (MRCC with Stop & Go function)
- Smart Brake Support (SBS)
- Cruising & Traffic Support (CTS)

The radar sensor (front) functions by detecting the radio waves reflected off a vehicle ahead or an obstruction sent from the radar sensor.
The radar sensor (front) is mounted behind the front emblem.



If “Front Radar Sensor Blocked” is displayed in the multi-information display of the instrument cluster, clean the area around the radar sensor (front).

⚠ CAUTION

Heed the following precautions to assure correct operation of each system.

- *Do not adhere stickers (including transparent stickers) to the surface of the radiator grille and front emblem in and around the radar sensor (front), and do not replace the radiator grille and front emblem with any product that is not a genuine product designed for use with the radar sensor (front).*
- *The radar sensor (front) includes a function for detecting soiling of the radar sensor's front surface and informing the driver, however, depending on the conditions, it may require time to detect or it may not detect plastic shopping bags, ice or snow. If this occurs, the system may not operate correctly, therefore always keep the radar sensor (front) clean.*
- *Do not install a grille guard.*
- *If the front part of the vehicle has been damaged in a vehicle accident, the position of the radar sensor (front) may have moved. Stop the system immediately and always have the vehicle inspected at an Authorized Mazda Dealer.*

- *Do not use the front bumper to push other vehicles or obstructions such as when pulling out of a parking space. Otherwise, the radar sensor (front) could be hit and its position deviated.*
- *Do not remove, disassemble, or modify the radar sensor (front).*
- *For repairs, replacement or paint work around the radar sensor (front), consult an Authorized Mazda Dealer.*
- *Do not modify the suspension. If the suspension are modified, the vehicle's posture could change and the radar sensor (front) may not be able to correctly detect a vehicle ahead or an obstruction.*

NOTE

- *Under the following conditions, the radar sensor (front) may not be able to detect vehicles ahead or obstructions correctly and each system may not operate normally.*
  - *The rear surface of a vehicle ahead does not reflect radio waves effectively, such as an unloaded trailer or an automobile with a loading platform covered by a soft top, vehicles with a hard plastic tailgate, and round-shaped vehicles.*
  - *Vehicles ahead with low vehicle height and thus less area for reflecting radio waves.*
  - *Visibility is reduced due to a vehicle ahead casting off water, snow, or sand from its tires and onto your windshield.*
  - *The luggage compartment is loaded with heavy objects or the rear passenger seats are occupied.*
  - *Ice, snow, or soiling is on the front surface of the front emblem.*
  - *During inclement weather such as rain, snow, or sand storms.*
  - *When driving near facilities or objects emitting strong radio waves.*
- *Under the following conditions, the radar sensor (front) may not be able to detect vehicles ahead or obstructions.*
  - *The beginning and end of a curve.*
  - *Roads with continuous curves.*
  - *Narrow lane roads due to road construction or lane closures.*
  - *The vehicle ahead enters the radar sensor's blind spot.*
  - *The vehicle ahead is running abnormally due to accident or vehicle damage.*
  - *Roads with repeated up and down slopes*
  - *Driving on poor roads or unpaved roads.*
  - *The distance between your vehicle and the vehicle ahead is extremely short.*
  - *A vehicle suddenly comes close such as by cutting into the lane.*
- *To prevent incorrect operation of the system, use tires of the same specified size, manufacturer, brand, and tread pattern on all four wheels. In addition, do not use tires with significantly different wear patterns or tire pressures on the same vehicle (Including the temporary spare tire).*
- *If the battery power is weak, the system may not operate correctly.*

- *When driving on roads with little traffic and few vehicles ahead or obstructions for the radar sensor (front) to detect, "Front Radar Sensor Blocked" may be temporarily displayed, however, this does not indicate a problem.*
- *The radar sensors are regulated by the relevant radio wave laws of the country in which the vehicle is driven. If the vehicle is driven abroad, authorization from the country in which the vehicle is driven may be required.*

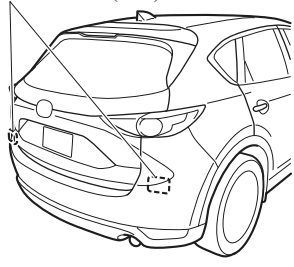
Radar Sensors (Rear)*

Your vehicle is equipped with radar sensors (rear). The following systems also use the radar sensors (rear).

- Blind Spot Monitoring system (BSM)
- Rear Cross Traffic Alert (RCTA)

The radar sensors (rear) function by detecting the radio waves reflected off a vehicle approaching from the rear or an obstruction sent from the radar sensor.

Radar sensors (rear)



The radar sensors (rear) are installed inside the rear bumper, one each on the left and right sides.
Always keep the surface of the rear bumper near the radar sensors (rear) clean so that the radar sensors (rear) operate normally. Also, do not apply items such as stickers.
Refer to Exterior Care on page 6-49.

⚠ CAUTION

If the rear bumper receives a severe impact, the system may no longer operate normally. Stop the system immediately and have the vehicle inspected at an Authorized Mazda Dealer.

NOTE

- *The detection ability of the radar sensors (rear) has limitations. In the following cases, the detection ability may lower and the system may not operate normally.*
  - *The rear bumper near the radar sensors (rear) has become deformed.*
  - *Snow, ice or mud adheres to the radar sensors (rear) on the rear bumper.*
  - *Under bad weather conditions such as rain, snow and fog.*
- *Under the following conditions, the radar sensors (rear) cannot detect target objects or it may be difficult to detect them.*
  - *Stationary objects on a road or a road side such as small, two-wheeled vehicles, bicycles, pedestrians, animals, and shopping carts.*

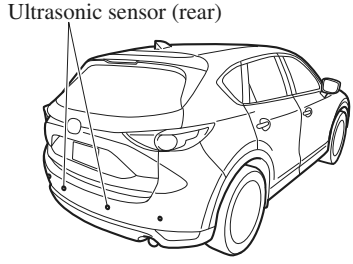
 *Some models.

- *Vehicle shapes which do not reflect radar waves well such as empty trailers with a low vehicle height and sports cars.*

- *Vehicles are shipped with the direction of the radar sensors (rear) adjusted for each vehicle to a loaded vehicle condition so that the radar sensors (rear) detect approaching vehicles correctly. If the direction of the radar sensors (rear) has deviated for some reason, have the vehicle inspected at an Authorized Mazda Dealer.*
- *For repairs or replacement of the radar sensors (rear), or bumper repairs, paintwork, and replacement near the radar sensors, consult an Authorized Mazda Dealer.*
- *Turn off the system while pulling a trailer or while an accessory such as a bicycle carrier is installed to the rear of the vehicle. Otherwise, the radio waves emitted by the radar will be blocked causing the system to not operate normally.*
- *The radar sensors are regulated by the relevant radio wave laws of the country in which the vehicle is driven. If the vehicle is driven abroad, authorization from the country in which the vehicle is driven may be required.*

Ultrasonic Sensor (Rear)*

The ultrasonic sensors (rear) function by emitting ultrasonic waves which are reflected off obstructions at the rear and the returning ultrasonic waves are picked up by the ultrasonic sensors (rear).

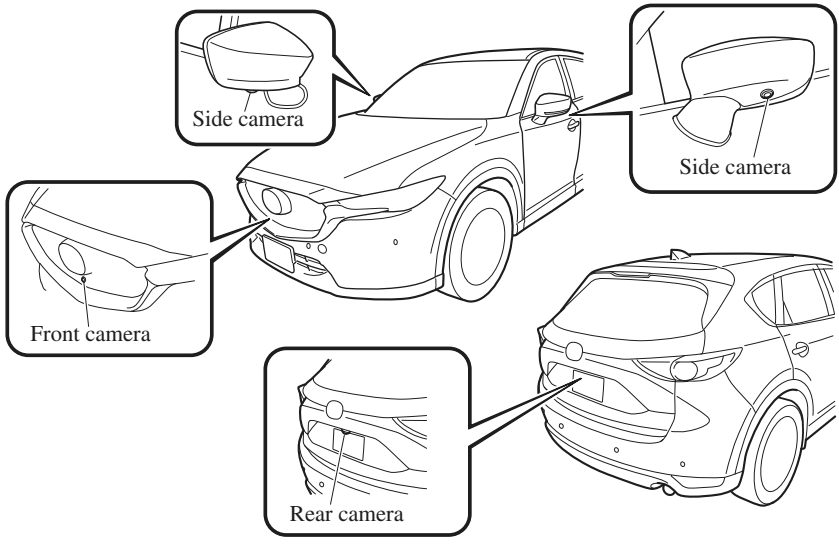


The ultrasonic sensors (rear) are mounted in the rear bumper.

 *Some models.

Front Camera/Side Cameras/Rear Camera*

Your vehicle is equipped with a front camera, side cameras, and a rear camera. The 360° View Monitor uses each camera.
The front camera, side cameras, and rear camera shoot images of the area surrounding the vehicle.
Each camera is installed to the following positions.



Cruise Control*

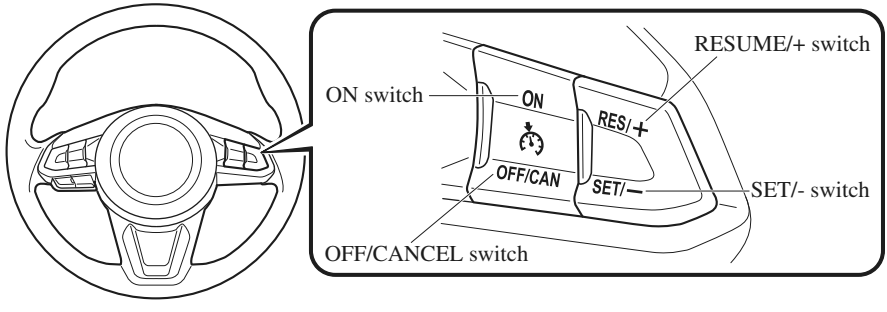
With cruise control, you can set and automatically maintain any speed of more than about 25 km/h (16 mph).

⚠ 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*

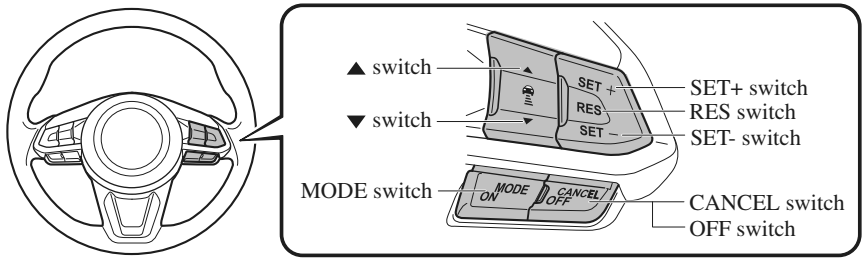
▼ Cruise Control Switch



NOTE
If your Mazda has the following steering switch, your Mazda is equipped with the Mazda Radar Cruise Control with Stop & Go function (MRCC with Stop & Go function) system.

 *Some models.

Refer to Mazda Radar Cruise Control with Stop & Go function (MRCC with Stop & Go function) on page 4-149.



▼ Cruise Main Indication (White)/ Cruise Set Indication (Green)



The indication has 2 colors.

Cruise Main Indication (White)

The indication turns on (white) when the cruise control system is activated.

Cruise Set Indication (Green)

The indication turns on (green) when a cruising speed has been set.

▼ Activation/Deactivation

⚠ 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.

NOTE

When the ignition is switched OFF, the system status before it was turned off is maintained. For example, if the ignition is switched OFF with the cruise control system operable, the system will be operable when the ignition is switched ON the next time.

Activation

To activate the system, press the ON switch. The cruise main indication (white) turns on.

Deactivation

To deactivate the system, press the OFF/ CANCEL switch.
The cruise main indication (white) turns off.

▼ To Set Speed

1. Activate the cruise control system by pressing the ON switch. The cruise main indication (white) turns on.
2. Accelerate to the desired speed, which must be more than 25 km/h (16 mph).
3. Set the cruise control by pressing the SET/− switch at the desired speed. The cruise control is set at the moment the SET/− switch is pressed. Release the accelerator pedal simultaneously. The cruise set indication (green) turns on.

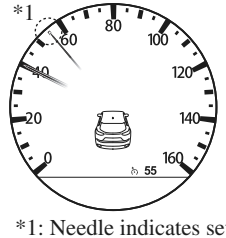
NOTE

- *The cruise control speed setting cannot be performed under the following conditions:*
  - *The selector lever is in the P or N position.*
  - *The parking brake is applied.*
- *Release the SET/− or RESUME/+ switch at the desired speed, otherwise the speed will continue increasing while the RESUME/+ 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.*
- *The cruise control will cancel if the vehicle speed decreases below 21 km/h (13 mph) when the cruise control is activated, such as when climbing a steep grade.*
- *The cruise control may cancel at about 15 km/h (9 mph) below the preset speed, such as when climbing a long, steep grade.*

The vehicle speed preset using the cruise control is displayed in the instrument cluster and the active driving display (vehicles with active driving display).

Instrument Cluster

Type A



*1: Needle indicates set speed.

Type B



Type C



Active Driving Display



▼ To Increase Cruising Speed

Follow either of these procedures.

To increase speed using cruise control switch

Press the RESUME/+ switch and hold it. Your vehicle will accelerate. Release the switch at the desired speed.

Press the RESUME/+ switch and release it immediately to adjust the preset speed. Multiple operations will increase the preset speed according to the number of times it is operated.

Increasing speed with a single RESUME/+ switch operation

Instrument cluster display for vehicle speed indicated in km/h: 1 km/h (0.6 mph)
Instrument cluster display for vehicle speed indicated in mph: 1 mph (1.6 km/h)

To increase speed using accelerator pedal

Depress the accelerator pedal to accelerate to the desired speed. Press the 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 desired speed.

Press the SET/− switch and release it immediately to adjust the preset speed. Multiple operations will decrease the preset speed according to the number of times it is operated.

Decreasing speed with a single SET/− switch operation

Instrument cluster display for vehicle speed indicated in km/h: 1 km/h (0.6 mph)
Instrument cluster display for vehicle speed indicated in mph: 1 mph (1.6 km/h)

▼ To Resume Cruising Speed at More Than 25 km/h (16 mph)

If the cruise control system temporarily canceled (such as by applying the brake pedal) and the system is still activated, the most recent set speed will automatically resume when the RESUME/+ switch is pressed.
If vehicle speed is below 25 km/h (16 mph), increase the vehicle speed up to 25 km/h (16 mph) or more and press the RESUME/+ switch.

▼ To Temporarily Cancel

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

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

If the RESUME/+ switch is pressed when the vehicle speed is 25 km/h (16 mph) or higher, the system reverts to the previously set speed.

NOTE

- *If any of the following conditions occur, the cruise control system is temporarily canceled.*
  - *The parking brake is applied.*
  - *The selector lever is in the P or N position.*
- *When the cruise control system is temporarily canceled by even one of the applicable cancel conditions, the speed cannot be re-set.*
- *The cruise control cannot be cancelled while driving in manual mode (selector lever shifted from D to M position). Therefore, engine braking will not be applied even if the transaxle is shifted down to a lower gear. If deceleration is required, lower the set speed or depress the brake pedal.*

▼ To Deactivate

When a cruising speed has been set (cruise set indication (green) turns on)

Long-press the OFF/CANCEL switch or press the OFF/CANCEL switch 2 times.

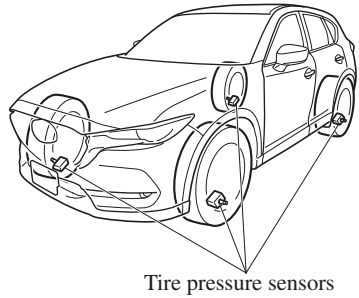
When a cruising speed has not been set (cruise main indication (white) turns on)

Press the OFF/CANCEL switch.

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 cluster and by the warning beep sound.
Refer to Contact Authorized Mazda Dealer and Have Vehicle Inspected on page 7-25.
Refer to Taking Action on page 7-31.
Refer to Tire Inflation Pressure Warning Beep on page 7-42.

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.)*

Tire Pressure Monitoring System

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.*

▼ System Error Activation

When the 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 a metallic device such as a non-genuine navigation system is equipped near the center of the dashboard, which may block radio signals from the tire pressure sensor to the receiver unit.
- 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 sidewalls.
- 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

When an Authorized Mazda Dealer, changes your vehicle's tires, they will complete the tire pressure sensor ID signal code registration.

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, switch the ignition ON, then back to ACC or OFF.
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.*

Rear View Monitor*

The rear view monitor provides visual images of the rear of the vehicle when reversing.

⚠ WARNING

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 is dangerous as it may cause an accident or a collision with an object. 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.

⚠ CAUTION

- *Do not use the rear view monitor under the following conditions: Using the rear view monitor under the following conditions is dangerous and could result in injury or vehicle damage or both.*
  - *Icy or snow-covered roads.*
  - *Tire chains or a temporary spare tire is installed.*
  - *The liftgate is not fully closed.*
  - *The vehicle is on a road incline.*
- *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 camera cover forcefully with an abrasive or hard brush. The camera cover or lens may be scratched which might affect the images.*

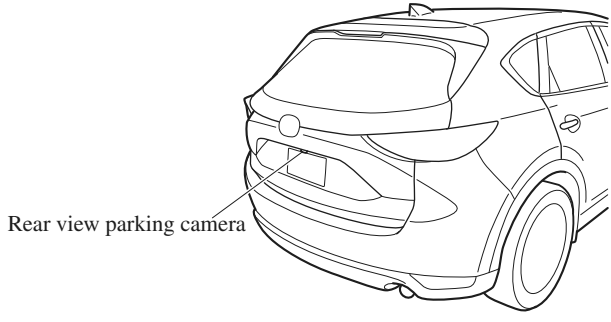
NOTE

- *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 (Hot to cold, cold to hot), the rear view monitor may not operate correctly.*
- *When replacing the tires, consult an Authorized Mazda Dealer. Replacing the tires could result in deviation of the guide lines which appear on the display.*

*Some models.

- *If the vehicle's front, side, or rear has been involved in a collision, the alignment of the rear view parking camera (location, installation angle) may have deviated. Always consult an Authorized Mazda Dealer to have the vehicle inspected.*
- *If "No camera signal." is indicated in the display, there could be a problem with the camera. Have your vehicle inspected at an Authorized Mazda Dealer.*

▼ Rear View Parking Camera Location



▼ Switching to the Rear View Monitor Display

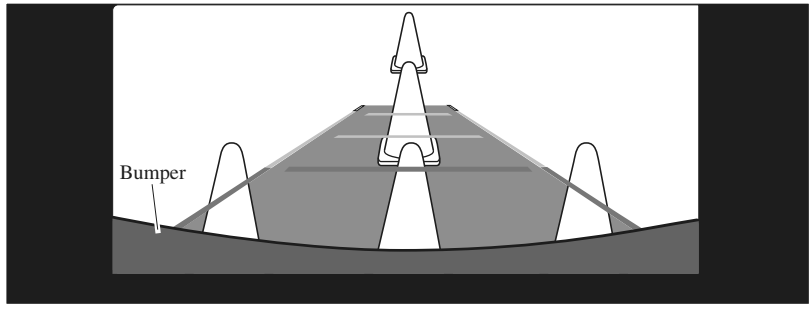
Shift the selector lever to reverse (R) position with the ignition switched ON to switch the display to the rear view monitor display.

NOTE
When the selector lever is shifted from reverse (R) position to another selector lever position, the screen returns to the previous display.

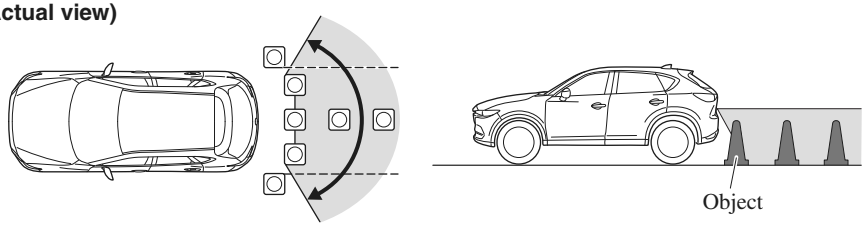
▼ Displayable Range on the Screen

The images on the screen may be different from the actual conditions.

(Screen display)



(Actual view)



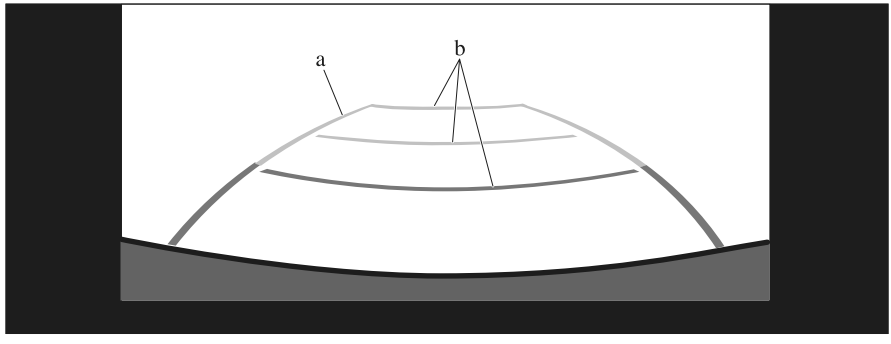
NOTE

- *The displayable range varies depending on the vehicle and road conditions.*
- *If the camera lens is touched or there is any dirt on it, it could affect the screen image. Wipe the lens using a soft cloth.*
- *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.*
- *Images displayed on the monitor from the rear view parking camera are reversed images (mirror images).*
- *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.*
- *The surroundings are illuminated by vehicle lights, fluorescent lights, or LED lights (display may flicker).*
- *Extremely small dark or white dots appear on the screen (dots may flicker).*
- *Image display may be delayed if the temperature around the camera is low.*

▼ Viewing the Display

Guide lines which indicate the width of the vehicle are displayed on the screen as a reference to the approximate width of the vehicle in comparison to the width of the parking space you are about to back into.
Use this display view for parking your vehicle in a parking space or garage.



a) Vehicle width guide lines
Guide lines serve as a reference to the approximate width of the vehicle.
b) Distance guide lines
These guide lines indicate the approximate distance to a point measured from the vehicle's rear (from the end of the bumper).
The red line indicates the point about 0.5 m (19 in) from the rear bumper.
The yellow lines indicate the points about 1.0 m (39 in) and 2.0 m (78 in) from the rear bumper.

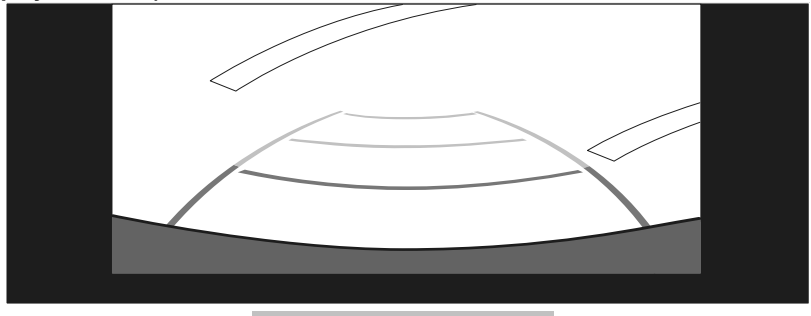
▼ Rear View Monitor Operation

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.

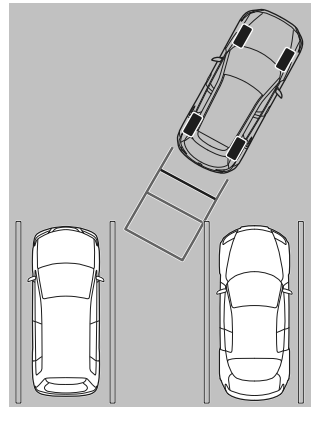
NOTE
Images displayed on the monitor from the rear view parking camera are reversed images (mirror images).

1. Shift the selector lever to reverse (R) position to switch the display to the rear view monitor display.
2. Confirming the surrounding conditions, reverse the vehicle.
3. After your vehicle begins entering the parking space, continue backing up slowly so that the distance between the vehicle width lines and the sides of the parking space on the left and right are roughly equal.

(Display condition)



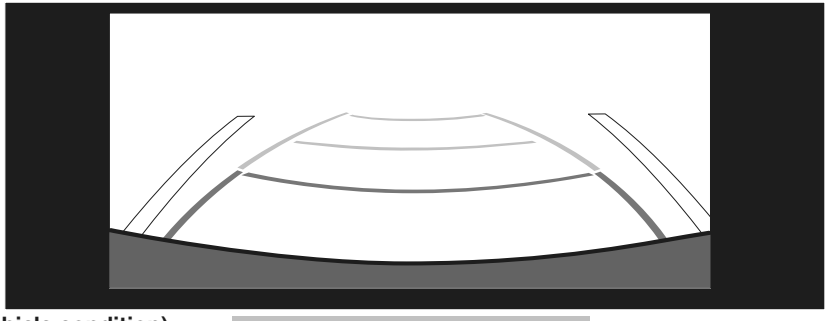
(Vehicle condition)



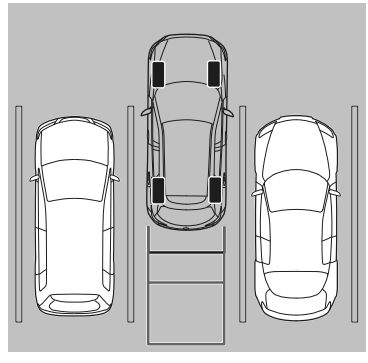
4. Continue to adjust the steering wheel until the vehicle width guide lines are parallel to the left and right sides of the parking space.

5. Once they are parallel, straighten the wheels and back your vehicle slowly into the parking space. Continue checking the vehicle's surroundings and then stop the vehicle in the best possible position. (If the parking space has division lines, check whether the vehicle width guide lines are parallel to them.)

(Display condition)



(Vehicle condition)



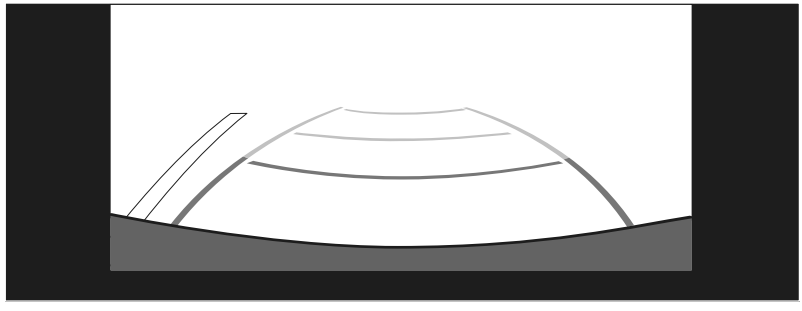
6. When the selector lever is shifted from reverse (R) position to another selector lever position, the screen returns to the previous display.

NOTE

Because there may be a difference between the displayed image, such as indicated below, and the actual conditions when parking, always verify the safety at the rear of the vehicle and the surrounding area directly with your eyes.

- *In the image of the parking space (or garage) displayed on the screen, the back end and distance guide lines may appear aligned in the monitor, but they may not actually be aligned on the ground.*

・ *When parking in a space with a division line on only one side of the parking space, the division line and the vehicle width guide line appear aligned in the monitor, but they may not actually be aligned on the ground.*

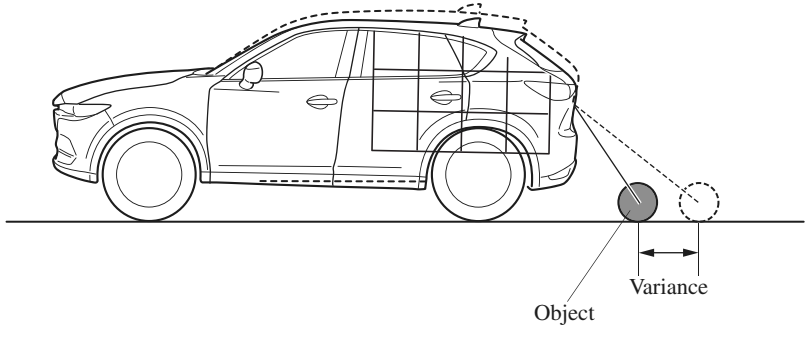


▼ Variance Between Actual Road Conditions and Displayed Image

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.

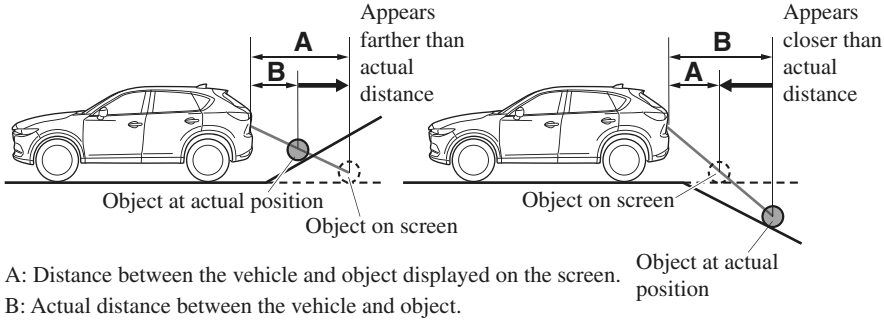
When the vehicle is tilted due to the weight of passengers and load

When the vehicle rear is lowered, the object displayed on the screen appears farther than the actual distance.



When there is a steep grade behind the vehicle

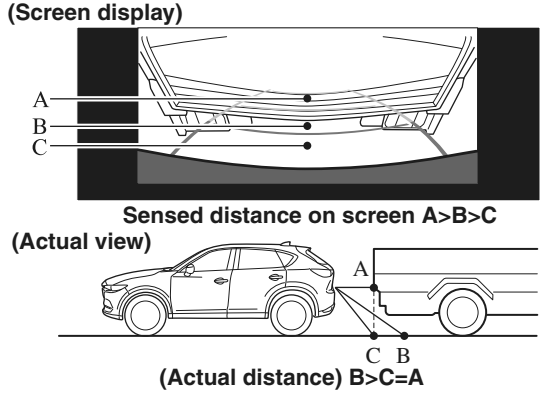
When there is a steep upgrade (downgrade) behind the vehicle, the object displayed on the screen appears farther (downgrade: closer) than the actual distance.



A: Distance between the vehicle and object displayed on the screen.
B: Actual distance between the vehicle and object.

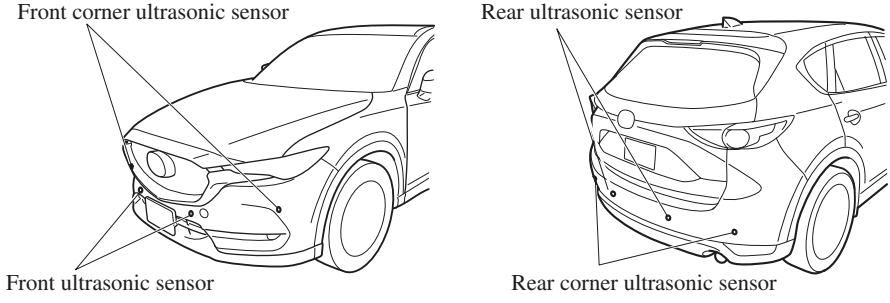
Three-dimensional object on vehicle rear

Because the distance guide lines are displayed based on a flat surface, the distance to the three-dimensional object displayed on the screen is different from the actual distance.



Parking Sensor System*

The parking sensors use ultrasonic sensors which detect obstructions around the vehicle when the vehicle is driven at low speeds, such as during garage or parallel parking, and a buzzer sound and detection indicator notify the driver of the approximate distance from the vehicle to the surrounding obstruction.



⚠ WARNING

Do not rely completely on the parking sensor system and be sure to confirm the safety around your vehicle visually when driving:

This system can assist the driver in operating the vehicle in the forward and backward directions while parking. The detection ranges of the sensors are limited, therefore, driving the vehicle while relying only on the system may cause an accident. Always confirm the safety around your vehicle visually when driving.

NOTE

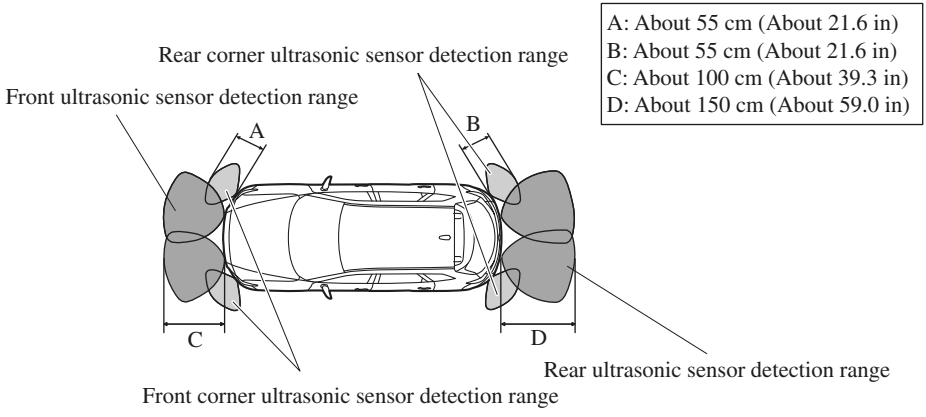
- *Do not install any accessories within the detection ranges of the sensors. It may affect the system operation.*
- *Depending on the type of obstruction and the surrounding conditions, the detection range of a sensor may narrow, or the sensors may not be able to detect obstructions.*
- *The system may not operate normally under the following conditions:*
  - *Mud, ice, or snow is adhering to the sensor area (Returns to normal operation when removed).*
  - *The sensor area is frozen (Returns to normal operation when the ice is thawed).*
  - *The sensor is covered by a hand.*
  - *The sensor is excessively shocked.*
  - *The vehicle is excessively tilted.*
  - *Under extremely hot or cold weather conditions.*

- *The vehicle is driven on bumps, inclines, gravel, or grass covered roads.*
- *Anything which generates ultrasound is near the vehicle, such as another vehicle's horn, the engine sound of a motorcycle, the air brake sound of a large-sized vehicle, or another vehicle's sensors.*
- *The vehicle is driven in heavy rain or in road conditions causing water-splash.*
- *A commercially-available fender pole or an antenna for a radio transmitter is installed to the vehicle.*
- *The vehicle is moving towards a tall or square curbstone.*
- *An obstruction is too close to the sensor.*

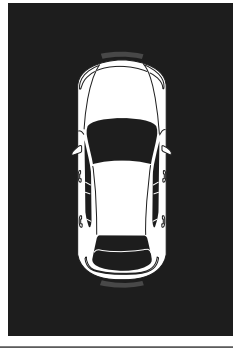
- *Obstructions under the bumper may not be detected. Obstructions that are lower than the bumper or thin which may have been initially detected may no longer be detected as the vehicle approaches more closely to the obstruction.*
- *The following types of obstructions may not be detected:*
  - *Thin objects such as wire or rope*
  - *Things which absorb sonic waves easily such as cotton or snow*
  - *Angular shaped objects*
  - *Very tall objects, and those which are wide at the top*
  - *Small, short objects*
- *Always have the system inspected at an Authorized Mazda Dealer if any shock is applied to the bumpers, even in a minor accident. If the sensors are deviated, they cannot detect obstructions.*
- *The system may have a malfunction if the beep does not operate or the indicator light does not illuminate when the parking sensor switch is turned on. Consult an Authorized Mazda Dealer.*
- *The system may have a malfunction if the beep sound which indicates a system malfunction is heard and the indicator light flashes. Consult an Authorized Mazda Dealer.*
- *The beeper which indicates a system malfunction may not be heard if the ambient temperature is extremely cold, or mud, ice, or snow adheres to the sensor area. Remove any foreign material from the sensor area.*
- *When installing a trailer hitch, consult an Authorized Mazda Dealer.*

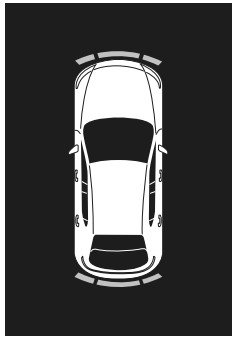
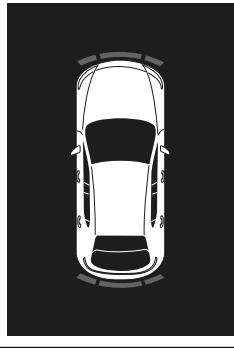
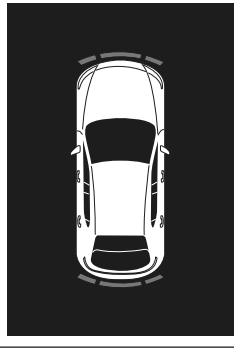
▼ Sensor Detection Range

The sensors detect obstructions within the following range.



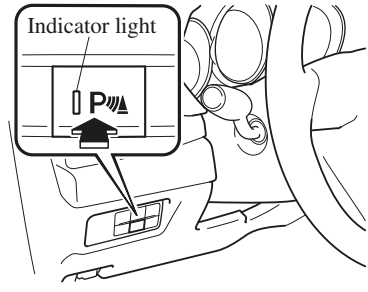
Viewing distance display

Display	Distance between vehicle and obstruction	
	Front ultrasonic sensor/Front corner ultrasonic sensor	Rear ultrasonic sensor/Rear corner ultrasonic sensor
Green 	Front ultrasonic sensor: Approx. 100—60 cm (39.3—23.6 in)	Rear ultrasonic sensor: Approx. 150—60 cm (59.0—23.6 in)

Display	Distance between vehicle and obstruction	
	Front ultrasonic sensor/Front corner ultrasonic sensor	Rear ultrasonic sensor/Rear corner ultrasonic sensor
Yellow 	Front ultrasonic sensor: Approx. 60—45 cm (23.6—17.7 in) Front corner ultrasonic sensor: Approx. 55—38 cm (21.6—14.9 in)	Rear ultrasonic sensor: Approx. 60—45 cm (23.6—17.7 in) Rear corner ultrasonic sensor: Approx. 55—38 cm (21.6—14.9 in)
Amber 	Front ultrasonic sensor: Approx. 45—35 cm (17.7—13.7 in) Front corner ultrasonic sensor: Approx. 38—25 cm (14.9—9.8 in)	Rear ultrasonic sensor: Approx. 45—35 cm (17.7—13.7 in) Rear corner ultrasonic sensor: Approx. 38—25 cm (14.9—9.8 in)
Red 	Front ultrasonic sensor: Within approx. 35 cm (13.7 in) Front corner ultrasonic sensor: Within approx. 25 cm (9.8 in)	Rear ultrasonic sensor: Within approx. 35 cm (13.7 in) Rear corner ultrasonic sensor: Within approx. 25 cm (9.8 in)

▼ Parking Sensor System Operation

When the parking sensor switch is pressed with the ignition switched ON, the buzzer sounds and the indicator light turns on.
When the ignition is switched ON with the parking sensor activated, the indicator light turns on.
Press the switch again to stop the operation.



Operation conditions

The parking sensor system can be used when all of the following conditions are met:

- The ignition is switched ON.
- The parking sensor switch is turned on.

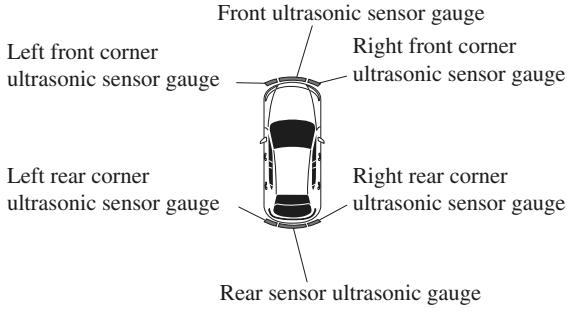
NOTE

- *The detection indicator and buzzer of the front sensors/front corner sensors do not operate when the selector lever is in the P position.*
- *The detection indicator and buzzer sound do not activate when the parking brake is applied.*

▼ Obstruction Detection Indication

The position of a sensor which has detected an obstruction is indicated. The gauge illuminates in different areas depending on the distance to an obstruction detected by the sensor.

As the vehicle approaches closer to an obstruction, the zone in the gauge closer to the vehicle illuminates.



NOTE

The detection indicator can be switched between display and non-display and the buzzer volume can be changed.
Refer to the Settings section in the Mazda Connect Owner's Manual.
When the detection indicator is set to "Display", even with the 360° view monitor not displayed, if a front ultrasonic sensor or a front corner ultrasonic sensor detects an obstruction, the 360° view monitor switches automatically to display. When an obstruction is no longer detected, the display switches to the display before the obstruction was detected. However, while the 360° view monitor is displayed, it continues to display no matter if an obstruction is detected or not.

System problem notification

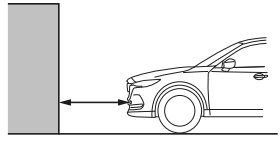
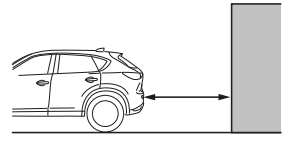
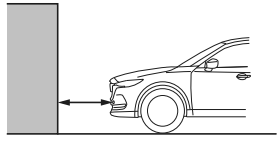
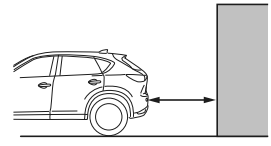
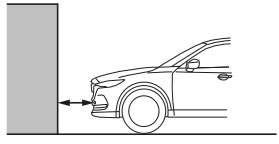
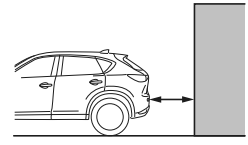
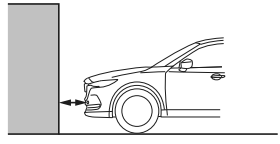
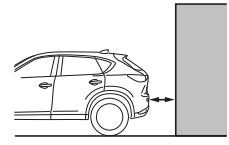
The indication displays if the system has a malfunction.



Check the reason for the indication displaying on the center display or multi-information display.
Refer to If a Warning Light Turns On or Flashes on page 7-22.

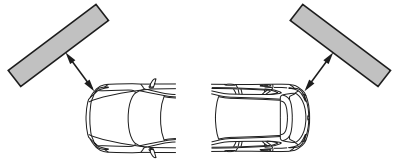
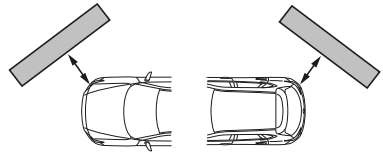
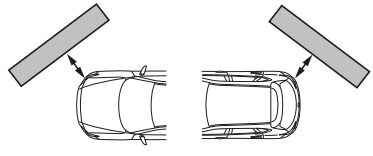
▼ Parking Sensor Warning Beep

The beeper sounds as follows while the system is operating.
Front ultrasonic sensor, Rear ultrasonic sensor

Distance Detection area	Distance between vehicle and obstruction		Beeper sound*1
	Front ultrasonic sensor	Rear ultrasonic sensor	
Farthest distance	Approx. 100—60 cm (39.3—23.6 in) 	Approx. 150—60 cm (59.0—23.6 in) 	Slow intermittent sound
Far distance	Approx. 60—45 cm (23.6—17.7 in) 	Approx. 60—45 cm (23.6—17.7 in) 	Medium intermittent sound
Middle distance	Approx. 45—35 cm (17.7—13.7 in) 	Approx. 45—35 cm (17.7—13.7 in) 	Fast intermittent sound
Close distance	Within approx. 35 cm (13.7 in) 	Within approx. 35 cm (13.7 in) 	Continuous sound

*1 The rate at which the intermittent sound beeps increases as the vehicle approaches the obstruction.

Front corner ultrasonic sensor, Rear corner ultrasonic sensor

Distance Detection area	Distance between vehicle and obstruction Front corner ultrasonic sensor/Rear corner ultrasonic sensor	Beeper sound*1
Far distance	Approx. 55—38 cm (21.6—14.9 in) 	Medium intermittent sound
Middle distance	Approx. 38—25 cm (14.9—9.8 in) 	Fast intermittent sound
Close distance	Within approx. 25 cm (9.8 in) 	Continuous sound

*1 The rate at which the intermittent sound beeps increases as the vehicle approaches the obstruction.

NOTE

- *If an obstruction is detected in a zone for 6 seconds or more, the beep sound is stopped (except for the close-distance zone). If the same obstruction is detected in another zone, the corresponding beep sound is heard.*

▼ When Warning Indicator/Beep is Activated

The system notifies the driver of an abnormality by activating the beep sound and the indicator light.

Indicator/Beep	How to check
The indicator light flashes when the parking sensor switch is pressed at a vehicle speed of 10 km/h (6 mph) or less.	The system may have a malfunction. Have the vehicle inspected at an Authorized Mazda Dealer as soon as possible.
The beep sound is not heard.	The system may have a malfunction. Have the vehicle inspected at an Authorized Mazda Dealer as soon as possible.

Indicator/Beep	How to check
The intermittent sound of the buzzer is heard 5 times.	Remove any foreign material from the sensor area. If the system does not recover, have the vehicle inspected at an Authorized Mazda Dealer.
A certain obstruction detection indicator is continuously displayed.	Refer to Obstruction Detection Indication on page 4-267.

MEMO

5 Interior Features

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

Climate Control System.....5-2
- Operating Tips..... 5-2
- Vent Operation.....5-3
- Manual Type.....5-5
- Fully Automatic Type.....5-9

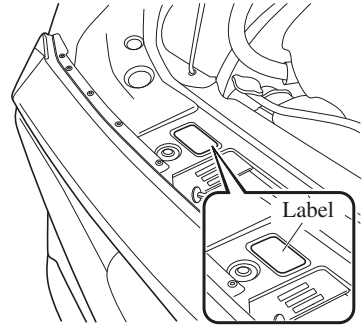
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- Interior Lights.....5-37
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- USB Power Outlet*..... 5-43
- Wireless Charger (Qi)*..... 5-44
- Cup Holder..... 5-47
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*Some models.

Operating Tips

- Operate the climate control system with the engine running.
- To prevent the battery from being discharged, do not leave the fan control dial/switch on for a long period of time with the ignition switched ON when the engine is not running.
- **(With i-stop)**
  The airflow amount may decrease slightly while the i-stop function is operating.
- 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.
- Use the climate control system to defog the windows and dehumidify the air.
- The recirculate mode should be used when driving through tunnels or while in a traffic jam, or when you would like to shut off outside air for quick cooling of the interior.
- Use the outside air position for ventilation or windshield defrosting.
- 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.
- Run the air conditioner about 10 minutes at least once a month to keep internal parts lubricated.
- Have the air conditioner checked before the weather gets hot. Lack of refrigerant may make the air conditioner less efficient.
  The refrigerant specifications are indicated on a label attached to the inside of the engine compartment. If the wrong type of refrigerant is used, it could result in a serious malfunction of the air conditioner. Consult a professional, government certified repairer for the inspection or repair because a special device is required for the air conditioner maintenance.
  For details, consult an Authorized Mazda Dealer.



Vent Operation

▼ Adjusting the Vents

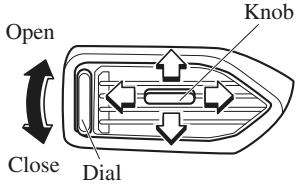
Directing airflow

To adjust the direction of airflow, move the adjustment knob.

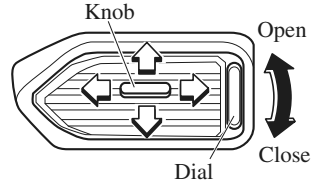
NOTE

- *When using the air conditioner under humid ambient temperature conditions, the system may blow fog from the vents. This is not a sign of trouble but a result of humid air being suddenly cooled.*
- *The air vents can be fully opened and closed by operating the dial.*

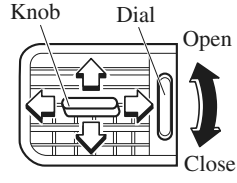
Side Vents



Center Vents



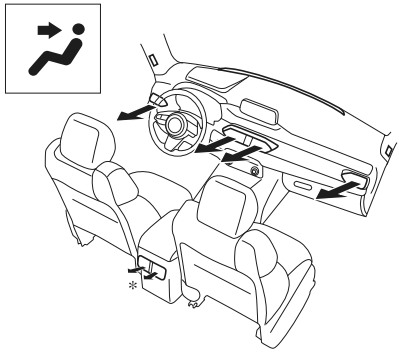
Rear Vents*



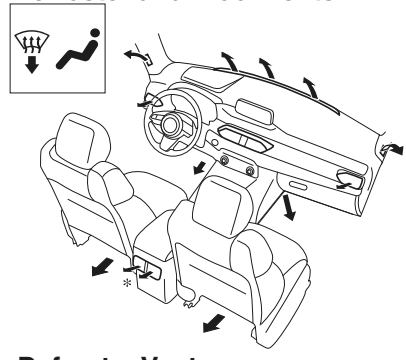
*Some models.

▼ Selecting the Airflow Mode

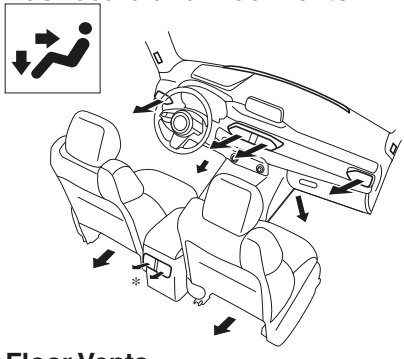
Dashboard Vents



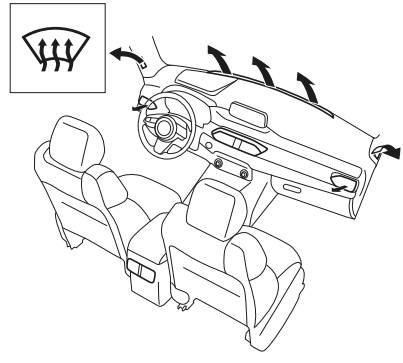
Defroster and Floor Vents



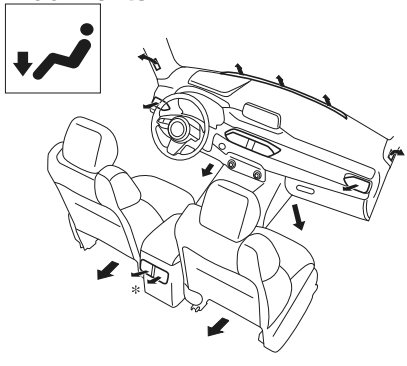
Dashboard and Floor Vents



Defroster Vents



Floor Vents

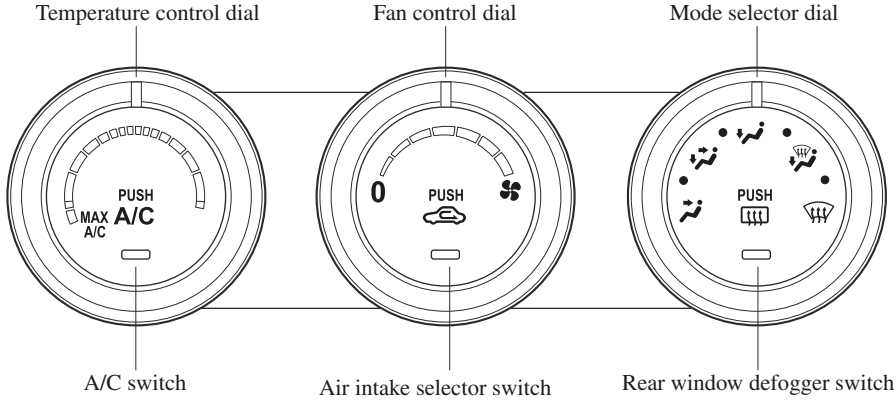


* With rear vents

NOTE

The location airflow exits the air vents and the airflow amount may change depending on the open or close status of the air vents.

Manual Type



▼ Control Switches

Temperature control dial

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

NOTE

When the mode is set to , , or a position in between them 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 position and the A/C turns on automatically.
If A/C is not desired, press the A/C switch to turn it off.

Fan control dial

This dial allows variable fan speeds. The fan has seven speeds.

Mode selector dial

Turn the mode selector dial to select airflow mode (page 5-4).

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 split the airflow between the two modes.*
- *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 in any position except OFF.

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).

Air intake selector

This switch controls the source of air entering the vehicle.

Outside or recirculated air positions can be selected. Press the switch to select outside/recirculated air positions.

Recirculated air position (indicator light illuminated)

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

Outside air is allowed to enter the cabin. Use this position for ventilation or windshield defrosting.

⚠ 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.

NOTE

- *The recirculated air position is the default position whenever the ignition is switched ON, the climate control system is on, and the outside temperature exceeds about 73°F (23°C).*
- *To exit the default recirculated air position, press the air intake selector switch to select the outside air position.*
- *When the air intake selector switch is set to the outside air position and the outside temperature exceeds about 73°F (23°C), the climate control system may automatically select the recirculated air position to improve the efficiency of the climate control system.*

Rear window defogger switch

Press the rear window defogger switch to defrost the rear window.
Refer to Rear Window Defogger on page 4-87.

▼ Heating

1. Set the mode selector dial to the position.
2. Set the air intake selector to the outside air position (indicator light turns off).
3. Set the temperature control dial to the hot position.
4. Set the fan control dial to the desired speed.
5. If dehumidified heating is desired, turn on the air conditioner.

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).*

▼ Cooling

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. After cooling begins, adjust the fan control dial and temperature control dial as needed to maintain maximum comfort.

⚠ CAUTION

If the air conditioner is used while driving up long hills or in heavy traffic, monitor the high engine coolant temperature warning indication/warning light to see if it is illuminated or flashing (page 7-22). The air conditioner may cause engine overheating. If the warning light is illuminated or flashing, turn the air conditioner off (page 7-17).

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 position, then turn the fan control dial fully clockwise.*
- *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 position (indicator light turns off).
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.
4. If dehumidified heating is desired, turn on the air conditioner.

⚠ 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, turn on the air conditioner, set the temperature control dial to the extreme hot position, and turn the fan control dial fully clockwise.*
- *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 and the outside air position is automatically selected to defrost the windshield. In the or position, the outside air position cannot be changed to the recirculated air position.*

▼ Dehumidifying

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

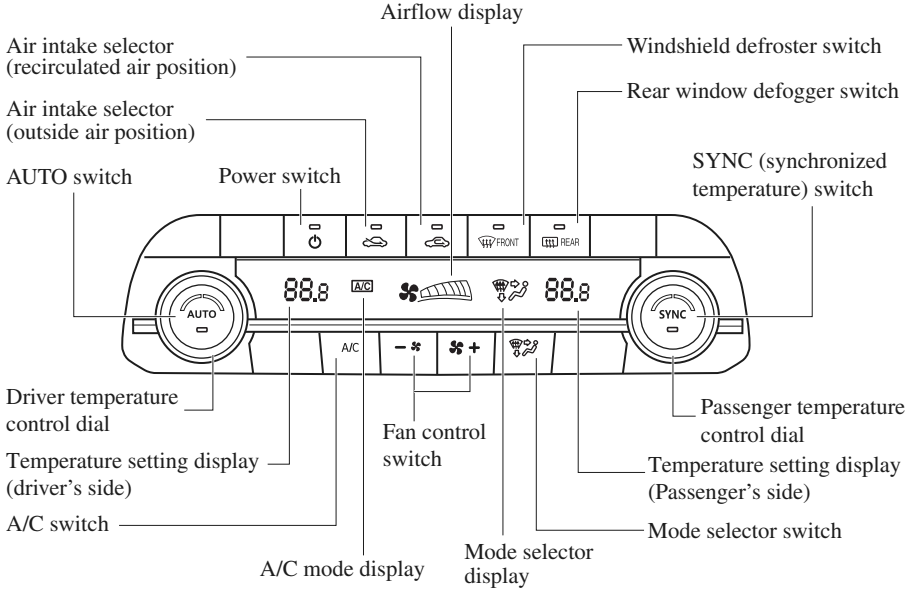
1. Set the mode selector dial to the desired position.
2. Set the air intake selector to the outside air position (indicator light turns off).
3. Set the temperature control dial to the desired position.
4. Set the fan control dial to the desired speed.
5. Turn on the air conditioner by pressing the 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.

Fully Automatic Type

Climate control system information is displayed on the 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 switches are operated while in auto control, the AUTO switch indicator turns off.*
  - *Mode selector switch*
  - *Fan control switch*
  - *Windshield defroster switch*

  The functions for switches other than those operated continue to operate in auto control.

Power switch (Fan On/Off)

The climate control system turns on or off by pressing the power switch.

Temperature control dial

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

Turn the temperature control dial to adjust the temperature between 15 °C (60 °F) and 29 °C (84 °F).

- When the SYNC switch is on:
  Turn the driver temperature control dial to control the temperature throughout the entire cabin.
- When the SYNC switch is off:
  Turn the driver or front passenger temperature control dial to independently control the temperature on each side of the cabin.

NOTE

- *The climate control system changes to the individual operation mode (SYNC switch indicator light turns off) by turning the front passenger temperature control dial even when the SYNC switch is on, which allows individual control of the set temperature for the driver and front passenger.*
- *When you set the temperature to the lower or upper limit, "Lo" or "Hi" is displayed.*
- *The temperature units for the temperature setting display can be changed in conjunction with the temperature units for the outside temperature display.*
  (Instrument cluster Type A)
  Refer to Outside Temperature Display on page 4-25.
  (Instrument cluster Type B)
  Refer to Outside Temperature Display on page 4-42.
  (Instrument cluster Type C)
  Refer to Outside Temperature Display on page 4-56.

Fan control switch

The fan has 7 speeds. The selected speed will be displayed.

Mode selector switch

The desired airflow mode can be selected (page 5-4).

NOTE

- *With the airflow mode set to the position and the temperature control dial set at a medium temperature, heated air is directed to the feet and air at a comparably lower temperature will flow through the central, left and right vents.*
- *To set the air vent to , press the windshield defroster switch.*
- *In the or position, the air conditioner is automatically turned on and the outside air position is automatically selected to defrost the windshield. In the or position, the outside air position cannot be changed to the recirculated air position.*

A/C switch

Pressing the A/C switch while the AUTO switch is turned on will turn off the air conditioner (cooling/dehumidifying functions).
The on/off of the air conditioner switches each time the A/C switch is pressed.

NOTE

- *The air conditioner operates when the A/C switch is pressed while the air conditioner is turned off.*
- *The air conditioner may not function when the outside temperature approaches 0 °C (32 °F).*

Air intake selector

Outside or recirculated air positions can be selected. Press the switch to select outside/recirculated air positions.

Recirculated air position ()

Outside air is shut off. Air within the vehicle is recirculated. Use this position when going through tunnels, driving in congested traffic (high engine exhaust areas), or when quick cooling is desired.

Outside air position ()

Outside air is allowed to enter the cabin. Use this position for ventilation or windshield defrosting.

⚠ 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.

NOTE

- *The recirculated air position is the default position whenever the ignition is switched ON, the climate control system is on, and the outside temperature exceeds about 73°F (23°C).*
- *To exit the default recirculated air position, press the air intake selector switch to select the outside air position.*
- *When the air intake selector switch is set to the outside air position and the outside temperature exceeds about 73°F (23°C), the climate control system may automatically select the recirculated air position to improve the efficiency of the climate control system.*

SYNC (Synchronized Temperature) switch

Use the SYNC switch to change the mode between the individual operation (driver and passenger) and interconnection (simultaneous) modes.

Interconnection mode (indicator light turns on)

The set temperature for the driver and front passenger is controlled simultaneously.

Individual operation mode (indicator light turns off)

The set temperature can be controlled individually for the driver and front passenger.

Windshield defroster switch

Press the switch to defrost the windshield and front door windows.
Refer to Windshield Defrosting and Defogging on page 5-12.

Rear window defogger switch

Press the rear window defogger switch to defrost the rear window.
Refer to Rear Window Defogger on page 4-87.

▼ Operation of Automatic Air Conditioner

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.
   If you want to set the temperature on the front passenger's side separately from the driver's side, turn the front passenger temperature control dial to switch the mode automatically to the individual operation mode and set the temperature for the front passenger's side.

To turn off the system, press the power switch.

NOTE

- *Set the control dial to the recommended temperature of 22 °C (72 °F), and then adjust it as desired.*
- *Setting the temperature to maximum hot or cold will not provide the desired temperature at a faster rate.*
- *When selecting heat, the system will restrict airflow until the engine 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 outside air 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 on page 5-4.
Airflow amount will be increased.

⚠ WARNING

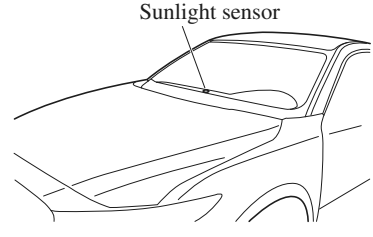
Set the temperature control to the hot or warm position when defogging (position):
Using the position with the temperature control set to the cold position is dangerous as it will cause the outside of the windshield to fog up. Your vision will be hampered, which could lead to a serious accident.

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

▼ Sunlight/Interior Temperature Sensor

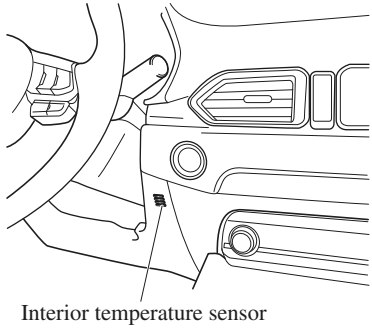
Sunlight sensor

Do not place objects on the sunlight sensor. Otherwise, the interior temperature may not adjust correctly.



Interior temperature sensor

Do not cover the interior temperature sensor. Otherwise, the interior temperature may not adjust correctly.

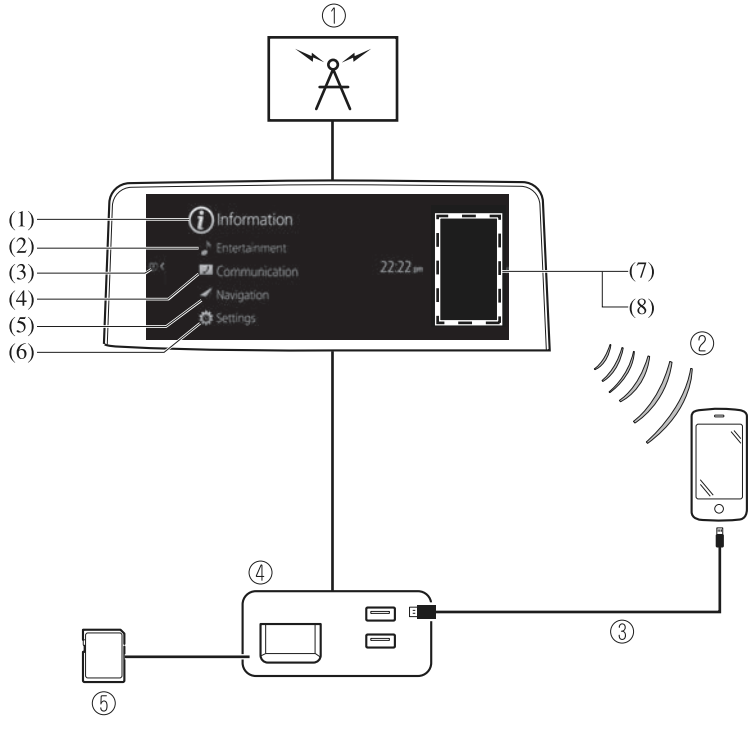


Interior temperature sensor

What is Mazda Connect ?

▼ What is Mazda Connect ?

This manual only indicates a part of the information for Mazda Connect. For details, check the Web owner's manual at the Mazda site for each country and region.



1. Radio
2. Bluetooth® Audio/Hands-Free Call/SMS (Short Message Service)
3. USB Audio/USB Video
4. USB port*1/SD card slot*2
5. SD card (Navigation system)*

*1 The position and the type of the USB port differ depending on the specification.

*2 The SD card slot is for the navigation system only. For vehicles with the navigation system, the SD card (Mazda genuine) with stored map data is inserted into the SD card slot.

 *Some models.

No.	Menu	Explanation
(1)	Information	**Fuel Efficiency Monitor:** Monitor fuel efficiency in real time and view fuel efficiency history. **SiriusXM Travel Link*:** Access traffic information, weather, parking information and sports scores. **Vehicle Status Monitor:** View important vehicle maintenance messages, information, and intervals.
(2)	Entertainment	FM AM SiriusXM* Pandora* Bluetooth USB1 Audio/USB2 Audio USB1 Video/USB2 Video Audio Off
(3)	Notifications	Displays text messages received by the mobile device paired to Mazda Connect and notifications from the vehicle.
(4)	Communication	By connecting your mobile device, such as a Smartphone, to Mazda Connect via Bluetooth®, you can use the hands-free call and short message functions.
(5)	Navigation	The navigation system (vehicles with navigation system) can be used when the SD card for the navigation system is inserted. If the SD card for the navigation system is not inserted, the compass indicating the direction in which the vehicle is moving is displayed. The compass may not indicate the correct bearing when the vehicle is stopped or traveling at a slow speed. For the navigation system operation, refer to the navigation system manual.

No.	Menu	Explanation
(6)	Settings	You can change the settings for the Mazda Connect screen, sound settings, and the vehicle functions. **In-Vehicle Displays:** Configures settings and content for all in-vehicle displays. **Sound Settings:** Configures the in-vehicle listening experience. **Safety Settings:** Configures safety and driver assistance features. **Vehicle Settings:** Configures vehicle convenience features. **Connectivity Settings:** Configures Bluetooth and other device connectivity settings. **System Settings:** Configures language, time, and other general settings.
(7)	Apple CarPlay	You can use Apple CarPlay™ by connecting an iPhone® compatible with Apple CarPlay™.
(8)	Android Auto	You can use Android Auto™ by connecting an Android™ Smartphone compatible with Android Auto™.

⚠ WARNING

Always adjust Mazda Connect while the vehicle is stopped:
Do not adjust Mazda Connect with the Commander switch while driving the vehicle. Adjusting Mazda Connect with the Commander switch while driving the vehicle is dangerous as it could distract your attention from the vehicle operation which could lead to a serious accident.
Even if the audio remote 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.

Do not allow the connection plug cord to get tangled with the selector lever:
Allowing the plug cord to become tangled with the selector lever is dangerous as it could interfere with driving, resulting in an accident.

Do not adjust a mobile device or a similar product while driving the vehicle:
Adjusting a mobile device 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 a mobile device or a similar product while the vehicle is stopped.

⚠ 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

- *Do not use Mazda Connect for a long time with the engine stopped. Otherwise, the battery power could be depleted.*
- *If a mobile 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 a problem.*

Mazda Connect Basic Operations

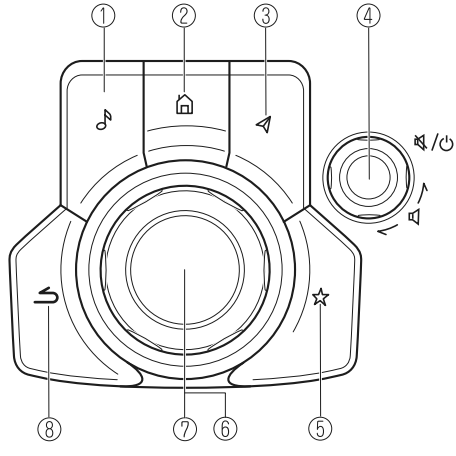
▼ Mazda Connect Basic Operations

NOTE
The explanation of functions described in this manual may differ from the actual operation, and the shapes of screens and buttons and the letters and characters displayed may also differ from the actual appearance.
Additionally, depending on future software updates, the content may successively change without notice.

▼ Commander Switch Operation

The commander switch can be used to switch to each function and to operate each function. Set the palm of your hand on the commander knob so that your fingers can touch each of the switches.
You can switch the screens without having to look down at your hand.

NOTE
For safety reasons, some operations are disabled while driving the vehicle.



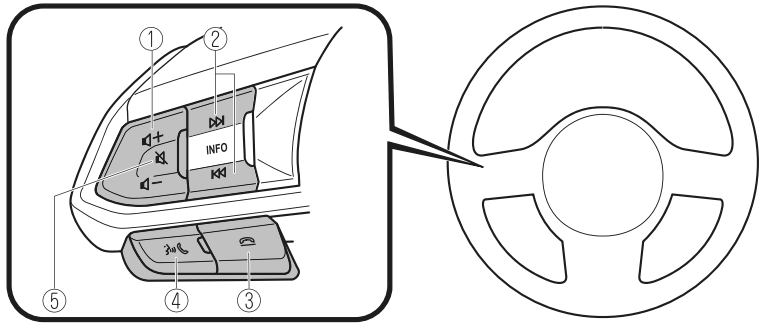
The shape of the switches varies depending on the vehicle specifications.

No.	Item	Explanation
1		**Entertainment button:** The audio source screen last used is displayed. **(During Apple CarPlay™ or Android Auto™ music playback)** Displays the Apple CarPlay™ or Android Auto™ now playing screen.
2		**Home button:** Displays the home screen. **(While Apple CarPlay™ or Android Auto™ is displayed)** Displays the Apple CarPlay™ or Android Auto™ home screen. **(While Apple CarPlay™ or Android Auto™ is connected)** Press and hold while the Mazda Connect screen is displayed to switch the screen from Mazda Connect to Apple CarPlay™ or Mazda Connect to Android Auto™. In addition, press and hold while the Apple CarPlay™ or Android Auto™ screen is displayed to switch to the Mazda Connect screen.
3		**Map button:** Displays the navigation screen (vehicles with navigation system). In order for the navigation system to function, the SD card for the navigation system is required. If the SD card for the navigation system is not inserted, the compass indicating the direction in which the vehicle is moving is displayed. For the navigation system operation, refer to the navigation system manual. **(During Apple CarPlay™ or Android Auto™ route guidance)** Displays the Apple CarPlay™ or Android Auto™ map screen. ***NOTE*** *With an active Mazda Navigation route, pressing the Map button will repeat the navigation voice guidance.*

No.	Item	Explanation
4		**Volume knob:** **Volume adjustment** Adjust the volume by turning the volume knob. If you adjust the volume during voice guidance, the volume of the voice guidance will change. If you adjust the volume during a hands-free call, the conversation volume will change. Press the volume knob to mute/pause the audio. Press the knob again to resume. **Power off/on** Press and hold to turn off the Mazda Connect power and turn off the screen. Press again to turn on the Mazda Connect power. ***NOTE*** ・*If you press the volume knob to mute an audio source which can be paused, such as Apple CarPlay™, USB audio, or Bluetooth® audio, while it is playing, the song playback pauses. Press the volume knob again to cancel the mute and the pause at the same time.* ・*When the Mazda Connect power is turned off and the commander switch is pressed, the Mazda Connect power turns on.*
5		**Favorites button:** Displays the favorites screen. Press and hold to register AM/FM/SiriusXM® stations, contacts, navigation destinations, or any highlighted menu items to create easily accessible shortcuts.
6		**Commander knob (selection):** Rotate or slide the commander knob to highlight/select the on-screen functions you want to use.
7		**Commander knob (select):** Depress the commander knob to select the desired on-screen function you want to use.
8		**Back button:** Returns to previous screen.

▼ Audio Remote Control Switch Operation

The audio remote control switch is on the left side of the steering wheel. You can operate basic audio functions, pick up/hang up the phone, or activate voice control using the switch.

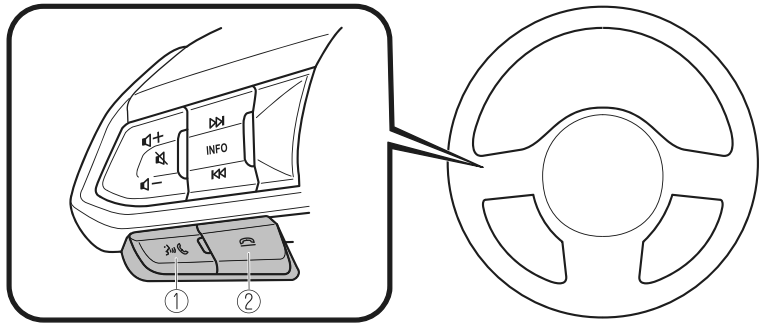


The shape of the switches may differ depending on the vehicle specifications.

No.	Item	Explanation
1		**Volume adjustment button:** Press the (+) or (-) button to adjust the volume. If you adjust the volume during voice guidance, the volume of the voice guidance will change. If you adjust the volume during a hands-free call, the conversation volume will change.
		
2	 (SEEK UP)	**Seek Switch:** **Selecting a radio station** Radio stations saved to your Favorites can be selected by pressing the seek switch while listening to FM/AM radio. The station will change to the previous or next favorite station each time you press the seek switch. If you want to manually tune to the next available station before or after the currently selected station, press and hold the seek switch until it beeps and the tuner will select the next available station. **Playback Control** Music and video files can be cued when listening to stored content via USB, Bluetooth®, and SiriusXM®, audio, or video. Slide the volume knob right to skip to the next track or slide it to the left to go back to the previous track. You can also slide and hold the volume knob to fast forward or rewind the track.
	 (SEEK DOWN)	

No.	Item	Explanation
3		**Hang-up button:** **(During a call)** Press the button to end the call. **(While receiving a call)** Press the button to refuse a call.
4		**Talk/Pick-up button:** **(While receiving a call)** Press the button to answer the call.
5		**Mute button:** Press the button to mute. Press it again to cancel the mute. ***NOTE*** *If you press the mute button to mute an audio source which can be paused, such as Apple CarPlay™, USB audio, or Bluetooth® audio, while it is playing, the song playback pauses. Press the mute button again to cancel the mute and the pause at the same time.*

▼ Operation Using Voice Recognition Function



The shape of the switches may differ depending on the vehicle specifications.

No.	Item	Explanation
1		**Talk/Pick-up button:** When the button is pressed, the voice recognition top screen is displayed and the voice recognition is activated. **(While voice guidance is being announced)** Press the button to skip the voice guidance.
2		**Hang-up button:** Press the button to end the voice recognition.

Voice recognition activation

When the talk/pick-up button on the audio remote control switch is pressed, top screen of the voice recognition will be displayed.

NOTE
When an Apple CarPlay™ or Android Auto™ compatible device is connected, the Mazda Connect voice recognition system is disabled to allow the use of Siri® or Android Auto™ voice recognition at any time with the talk/pick-up button.

Commands usable at any time

“Help” - Can be used to check for usable voice commands.
“Back” - Returns to the previous screen. When a voice command is spoken while on the telephone number input screen, the content that was previously input is deleted.
“Cancel”- The voice recognition is ended.

Ending voice recognition

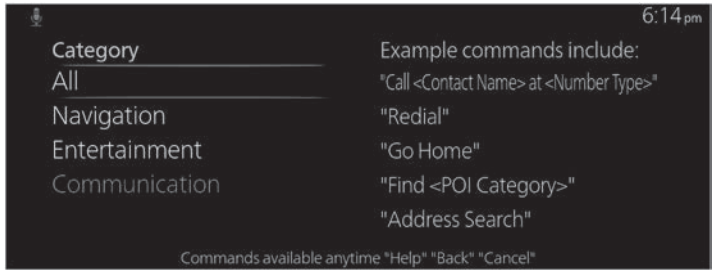
Do any one of the following operations:

・Press the hang-up button.

- Press and hold the talk/Pick-up button.
- Say the word, “Cancel”.

Convenient operating tips for using the voice recognition function

Examples of effective voice commands in various categories are displayed on the voice recognition screen.



NOTE

- *The voice command examples shown in this manual are only a partial list of the available commands. Some commands may be unusable depending on the vehicle specifications.*
- *Some commands cannot be used depending on the device connection conditions and the use conditions.*
- *When the Barge-In setting is on, voice commands can be made even while the voice guidance is being announced. For details on Barge-In, refer to the System Settings section in the Mazda Connect Owner's Manual.*
- *For details on voice commands which can be used on the navigation screen, refer to the navigation system manual.*

To prevent misunderstood voice commands, be aware of the following points:

- Connect your mobile phone to Bluetooth® before operating the mobile phone using voice recognition.
- After pressing the talk/pick-up button, wait for the beep before speaking a command.
- Speaking in a slightly louder voice will improve voice recognition, but an excessively loud voice is unnecessary. Try to speak in a slightly louder voice than when talking to other passengers in the vehicle.
- You do not need to speak slowly. Speak at a normal speed.
- When calling a person in the device's phonebook, the recognition rate increases the longer the name is. Errors may occur with names that are short such as “Mama”, “Home”, or “wife”.
- Speak clearly, without pausing between words or numbers.
- Voice commands other than those specified, cannot be recognized. Speak in the wording specified by the voice commands.

- It is not necessary to face the microphone or be near it. Speak the voice commands while maintaining a safe driving position.
- Close the windows and the moonroof* to reduce loud noises from outside the vehicle and to prevent the airflow of the air-conditioning system from being a disturbance when using Bluetooth® Hands-Free.
- Make sure that the air flow from the air conditioner is not blowing on the microphone.
- If the voice recognition is poor with the guidance volume set to high, set the Barge-In to OFF.

Examples of available voice commands

The specified name and number are put into the {}.

Common

- Back
- Help (You can listen to help guidance at each screen.)
- {Line Number} (You can select the line number on the screen.)
- Next Page
- Previous Page
- Cancel

Menu

- All
- Navigation
- Entertainment
- Communication

Setting

- Voice Recognition Settings
- Display Off

Music

- Play Artist (You can also use “Play Artist {Artist name}”.)
- Play Album (You can also use “Play Album {Album Name}”.)
- Play Playlist (You can also use “Play Playlist {Playlist Name}”.)
- Play Song (You can also use “Play Song {Song Name}”.)
- Play Audiobook (You can also use “Play Audiobook {Audiobook Name}”.)
- Play Podcast (You can also use “Play Podcast {Podcast Name}”.)

Radio

- Tune to {Frequency} AM
- Tune to {Frequency} FM
- Tune to {Frequency} HD {Sub Channel}

- SiriusXM Channel {Channel Number}
- SiriusXM {Station Name}
- SiriusXM Genre (You can also use “SiriusXM {Genre Name}”.)

Source

- Change Source (You can also use “Change Source to USB”*1 and “USB”*1.)
- Audio OFF (You can also use “Change Source to Audio OFF”.)

Phone

- Dial Phone Number (You can also use “Dial {Phone Number}”.)
- Call History
- Call a Contact (You can also use “Call {Contact Name}” and “Call {Contact Name} at {Number Type}”.)
- Redial

*1 : Audio source names other than “USB” can also be used as follows:
Bluetooth/AM/FM/SiriusXM/Pandora/USB1 Audio/USB2 Audio/USB1 Video/USB2 Video

▼ Appendix

Gracenote® Database

When connecting a USB audio device or Bluetooth® audio device to this unit and playing audio, the unit searches the database stored in the vehicle for the album art. If there is a match in the vehicle's database compilation to the music being played, the album art is displayed. The database information stored in this device uses database information in the Gracenote® music recognitions service.

SiriusXM Travel Link®*

⚠ CAUTION

ADVISORY ONLY
The weather information is subject to service interruptions and may contain errors or inaccuracies and consequently should not be relied upon exclusively. You are urged to check alternate weather information sources prior to making safety related decisions. You acknowledge and agree that you shall be solely responsible for use of the information and all decisions taken with respect thereto. By using this weather service, you release and waive any claims against Sirius XM Radio Inc. and Mazda Motor Corporation and all of their respective affiliates with regard to this service.

 *Some models.

SiriusXM® Satellite Radio*



Products/applications shall display “Call [Appropriate Phone Number] to Enable Services” for any unsubscribed SiriusXM Data Service(s).
This shall be shown on the same screen as the Radio ID and the service subscription status: Contact your SiriusXM Representative for the appropriate call center phone number.

- U.S.A.: 1-877-447-0011
- Canada: 1-877-438-9677

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- All of our premium programming, including Howard Stern, every NFL, MLB®, and NBA game, NHL® games, every NASCAR® race, 24/7 talk channels dedicated to the biggest leagues, and much more.

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NOTE
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HD Radio™

What is HD Radio™ Technology and how does it work?

HD Radio™ Technology is the digital evolution of analog AM/FM radio.
Your radio product has a special receiver which allows it to receive digital broadcasts (where available) in addition to the analog broadcasts it already receives.
Digital broadcasts have better sound quality than analog broadcasts as digital broadcasts provide free, crystal clear audio.
For more information, and a guide to available radio stations and programming, please visit www.hdradio.com.

Benefits of HD Radio™ Technology

(Information)
The song title, artist name, album name will appear on the screen when available by the radio station.
(Multicast)
On the FM radio frequency most digital stations have "multiple" or supplemental programs on each FM station.
HD Radio Technology manufactured under license from iBiquity Digital Corporation. U.S. and Foreign Patents.
For patents see http://dts.com/patents.

Apple CarPlay™

⚠ CAUTION

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NOTE

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- *When using Apple CarPlay™, location, speed, and other vehicle data is transferred to your iPhone®. For further details, refer to Apple®'s Privacy Policy.*

Android Auto™

⚠ CAUTION

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Please note that the use of this accessory with iPhone or iPod may affect wireless performance.

Made for
iPhone 11 Pro Max
iPhone 11 Pro
iPhone 11
iPhone XS Max
iPhone XS
iPhone XR
iPhone X
iPhone 8 Plus
iPhone 8
iPhone 7 Plus
iPhone 7
iPhone SE
iPhone 6s Plus
iPhone 6s
iPhone 6 Plus
iPhone 6
iPhone 5s
iPod touch (7th generation)
iPod touch (6th generation)



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Connected Service (If applicable)

▼ Connected Service Overview

Connected Service Overview (U.S.A.)
There are several types of connected services available via Mazda Connect. Some services may require you to download the MyMazda app to your smartphone and subscribe to the services, while others may require you to pair your smartphone to the vehicle via Bluetooth®. In addition, on a regular basis and unless you opt-out, your vehicle will automatically transmit certain geo-location, driving behavior data, and vehicle health information to Mazda for product quality, data analysis, research, and product development. Using the QR codes or URLs below, refer to the Connected Service Owner's Manual and Privacy Policy for more details and opt-out options.

- Connected Service Owner's Manual
  https://www.mazdausa.com/static/manuals/mazda-connected-service/index.html

Connected Service Overview (Canada)
If your vehicle is equipped for connected services, there may be several types of connected services available to you. The availability, terms and capability of connected services vary by vehicle and other factors. Some services may require you to download the MyMazda app to your compatible smartphone, purchase a subscription or be in a supported area with wireless coverage, while others may require you to pair your smartphone to the vehicle via Bluetooth®. If your vehicle is equipped for connected services, certain data may be collected and transmitted through the connected vehicle system, including, without limitation, geo-location, driving behaviour data and vehicle health information. Please refer to connected services terms and privacy policy available on the Mazda Canada website for more details.
Connected Services owner’s manual:

https://www.mazda.ca/en/digital-owners-manual/2021/connected-services/



(U.S.A. and Canada)
Privacy Policy
Mazda maintains a Privacy Statement which describes how we collect, use, share, store and secure data from your vehicle equipped with connected services.
We provide you with connected services by collecting and using your personal information and vehicle location, health and driving data.
To learn more about our Privacy Statement, please visit:
(U.S.A.)
https://www.mazdausa.com/site/privacy-connectedservices

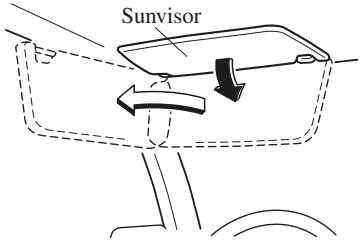


(Canada)
https://www.mazda.ca/en/cv-privacy/



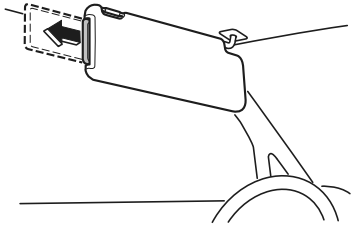
Sunvisors

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.

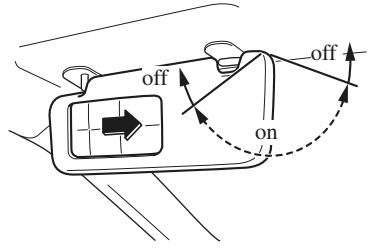


⚠ CAUTION

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.
If your vehicle is equipped with a vanity mirror light, it will illuminate when you open the cover.
To prevent the lead-acid battery from being discharged, the vanity mirror will only illuminate in the tilt range shown in the figure.



 *Some models.

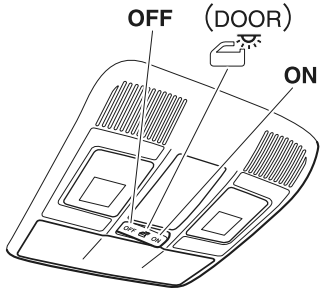
Interior Lights

NOTE
Do not leave the lights on for long periods while the engine is turned off. Otherwise the lead-acid battery power could be depleted.

Overhead Lights

Type A

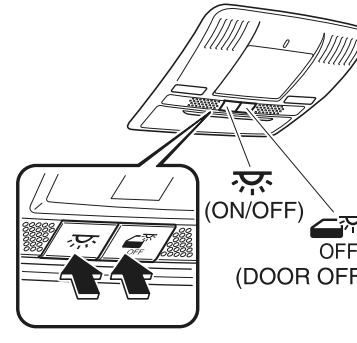
Switch Position	Overhead Lights
OFF	Light off
DOOR	• Light is on when any door is open • Light is on or off when the illuminated entry system is on
ON	Light on



NOTE
The rear map lights also turn on and off when the overhead light switch is operated.

Type B

Switch	Overhead Lights
OFF (DOOR OFF)	The DOOR OFF switch can be switched between the DOOR position and DOOR OFF position. **DOOR position** • The lights turn on when any of the doors is opened. • The lights turn on/off in conjunction with the illuminated entry system. **DOOR OFF position** • The lights do not turn on even if any of the doors is opened. • The lights do not turn on/off in conjunction with the illuminated entry system.
(ON/OFF)	Press the switch to turn it on. Press the switch again to turn off the lights.

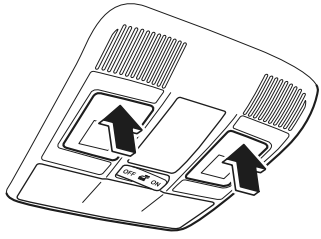


Front Map Lights

Type A

When the overhead light switch is in the door or off position, press the lens to

illuminate the front map lights, and then press the lens again to turn them off.

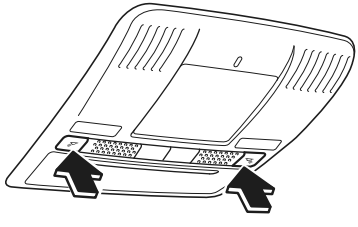


NOTE
The front map lights will not turn off even if the lens is pressed in the following cases:

- *The overhead light switch is in the ON position.*
- *The overhead light switch is in the door position with the door open.*
- *The illuminated entry system is on.*

Type B

Press the switch to illuminate the front map lights, and then press the switch again to turn them off.



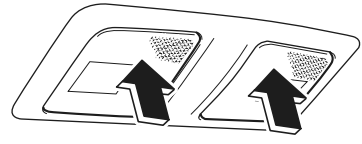
NOTE
The front map lights will not turn off even if the switch is pressed in the following cases:

- *The overhead lights turn on by operating the overhead ON/OFF switch (☼).*
- *The overhead lights turn on in conjunction with a door opening/closing.*
- *The illuminated entry system is on.*

Rear Map Lights

Type A

When the overhead light switch is in the door or off position, press the lens to illuminate a rear map light, and then press the lens again to turn it off.

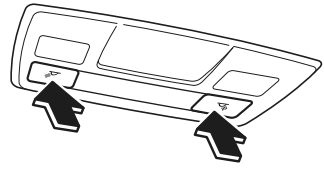


NOTE

- *Once the rear map lights have been turned off, they will turn on and off depending on the position to which the overhead light is switched.*
- *The rear map lights will not turn off even if the lens is pressed in the following cases:*
  - *The overhead light switch is ON.*
  - *The overhead light switch is in the door position with the door open.*
  - *The illuminated entry system is on.*

Type B

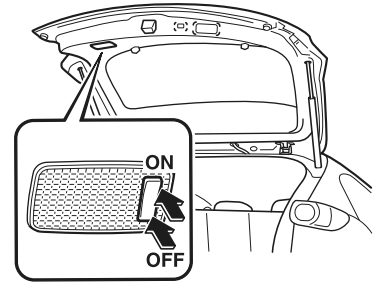
Press the switch to illuminate the rear map lights, and then press the switch again to turn them off.



NOTE

- *Once the rear map lights have been turned off, they will turn on and off in conjunction with the overhead light operation.*
- *The rear map lights will not turn off even if the switch is pressed in the following cases:*
  - *The overhead lights turn on by operating the overhead ON/OFF switch (☼).*
  - *The overhead lights turn on in conjunction with a door opening/closing.*
  - *The illuminated entry system is on.*

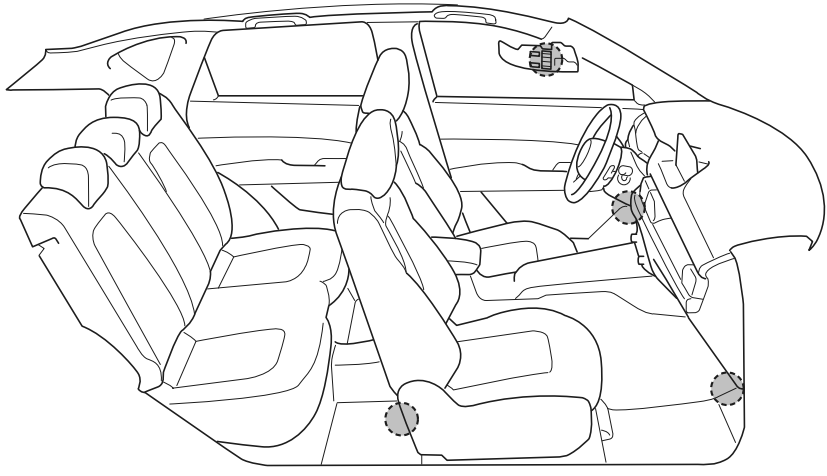
Luggage Compartment Lights



Switch Position	Luggage Compartment Light
OFF	Light off
ON	Light on when the liftgate is open

Ambient Light*

An ambient light continuously turn on when the ignition is switched ON.
An ambient light dim when the parking lights or headlights are turned on.



Ambient light

NOTE

- *An ambient light turn on or off in conjunction with the illuminated entry system when the ignition is switched OFF.*
- *The ambient light illumination level can be changed while the parking lights or headlights are turned on.*
  Refer to the Settings section in the Mazda Connect Owner's Manual.

▼ Illuminated Entry System

The overhead lights turn on when any of the following operations is done with the overhead light switch in the DOOR position.
The ambient lights turn on regardless of the overhead light switch position.

- The driver's door is unlocked with the ignition is switched OFF.
- The ignition is switched OFF with all doors closed.

NOTE

- *The illumination time differs depending on the operation.*
- ***Lead-acid battery saver***
  If an interior light is left on with the ignition switched OFF, the light turns off automatically after a certain period of time has passed to prevent lead-acid battery depletion.
- *The operation of the illuminated entry system can be changed.*
  Refer to the Settings section in the Mazda Connect Owner's Manual.

*Some models.

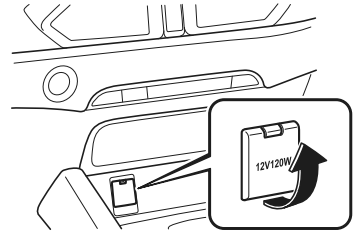
· ***(Type B)***
The illumination entry system does not operate in conjunction with the overhead lights when the overhead lights are turned on using the overhead light ON/OFF switch.

Accessory Sockets

Only use genuine Mazda accessories or the equivalent requiring no greater than 120 W (DC 12 V, 10 A).

Front

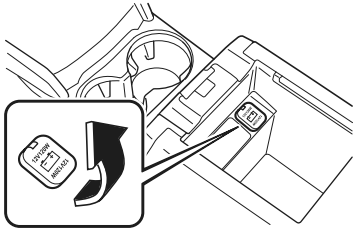
The ignition must be switched to ACC or ON.



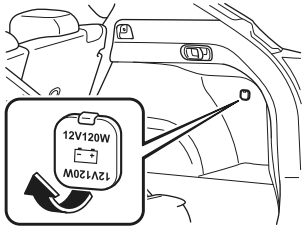
Center, Rear

The accessory sockets can be used regardless of whether the ignition is on or off.

Center



Rear



⚠ CAUTION

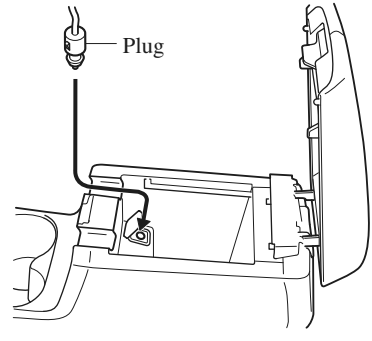
- *To prevent accessory socket damage or electrical failure, pay attention to the following:*
  - *Do not use accessories that require more than 120 W (DC 12 V, 10 A).*
  - *Do not use accessories that are not genuine Mazda accessories or the equivalent.*
  - *Close the cover when the accessory socket 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 depending on the device connected to the accessory socket.*
- *Depending on the device connected to the accessory socket, the vehicle's electrical system may be affected, which could cause the warning light to illuminate. Disconnect the connected device and make sure that the problem is resolved. If the problem is resolved, disconnect the device from the socket and switch the ignition off. If the problem is not resolved, consult an Authorized Mazda Dealer.*

NOTE

To prevent discharging of the battery, do not use the socket for long periods with the engine off or idling.

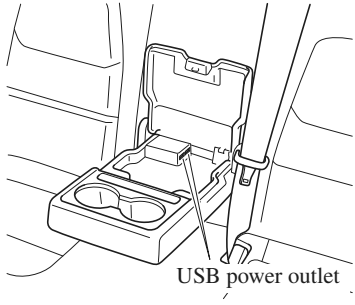
Connecting the accessory socket

1. Open the lid.
2. Pass the connection plug cord through the cutout of the console and insert the plug into the accessory socket.



USB Power Outlet*

The USB power outlets can be used regardless of whether the ignition is switched to ACC or ON.
Only use USB devices that have a maximum power consumption of 10.5W (DC5V, 2.1A) or below.



⚠ CAUTION

- *To prevent USB power outlets damage or electrical failure, pay attention to the following:*
  - *Do not use USB devices that require more than 10.5 W (DC 5 V, 2.1 A).*
  - *Close the lid when the USB power outlets are not in use to prevent foreign objects and liquids from getting into the USB power outlets.*
  - *Correctly connect the USB connector into the USB power outlets.*

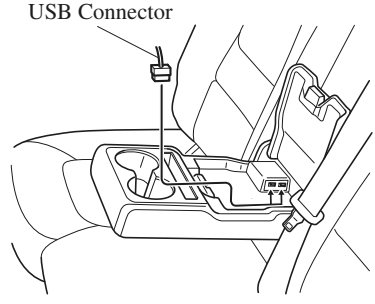
NOTE

- *The USB power outlets are designed only for charging and they cannot be used for connecting to the vehicle's audio system.*
- *To prevent discharging of the lead-acid battery, do not use the USB power outlets for long periods with the engine off or idling.*

How to connect

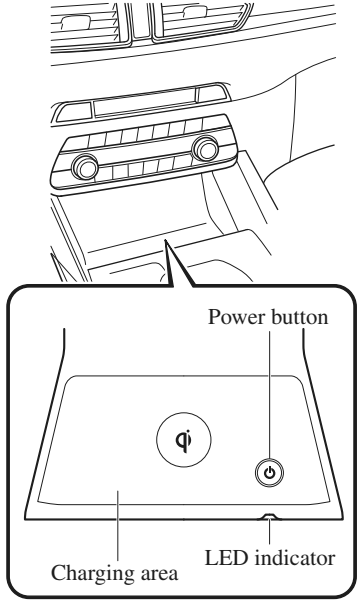
The groove in the armrest box can be used to pass the cord of the device into the box to connect it to the USB power outlets.

1. Open the lid.
2. Route the cord through the groove in the armrest box and insert the USB connector into the USB power outlets.



Wireless Charger (Qi)*

You can charge mobile devices such as Smartphones which comply with the Qi Wireless Charging standard.
Only use mobile devices that have a maximum power consumption of 5 W, or 15 W or below. The maximum power consumption differs depending on the mobile device.



⚠ WARNING

Radio waves from the Wireless Charger (Qi) may affect the operation of medical devices such as implanted-type cardiac pacemakers or defibrillators.

- *Before using the Wireless Charger (Qi) near people who use medical devices, ask the medical device manufacturer or your physician if radio waves from the Wireless Charger (Qi) will affect the device.*
- *The Wireless Charger (Qi) can be disabled to prevent it from affecting medical devices. Consult an Authorized Mazda Dealer for details.*

Heed the following cautions. Otherwise, the Wireless Charger (Qi) may malfunction or be damaged, which could cause a fire, burns due to heat generation, or an accident such as electrical shock.

- *Do not install, remove, disassemble, or change the wiring of the Wireless Charger (Qi). If the Wireless Charger (Qi) needs to be installed or removed, consult an Authorized Mazda Dealer.*
- *Do not use the Wireless Charger (Qi) when it is malfunctioning. In addition, if smoke, abnormal noise, or abnormal smell is emitted from the Wireless Charger (Qi), stop the vehicle in a safe place, switch the ignition OFF, and consult an Authorized Mazda Dealer.*
- *When using the Wireless Charger (Qi) to store items on, turn off the Wireless Charger (Qi).*
- *Do not place any metal object between the charging area and the mobile device. Also, do not apply items such as a metallic sticker to the Wireless Charger (Qi).*

 *Some models.

- *When charging, do not place any item other than the mobile device to be charged on the Wireless Charger (Qi). In addition, do not place any metal object, IC card, coin, or magnetic item near the charging area.*
- *Remove dust or dirt from the charging area before use.*
- *Do not apply strong force or impact to the Wireless Charger (Qi) or get it wet.*
- *Use only mobile devices which support the Wireless Charger (Qi).*

How to use

1. Start the engine.
2. The power for the Wireless Charger (Qi) turns on and the LED indicator turns on.
   - The power can be turned on/off by pressing the power button on the Wireless Charger (Qi) for about 3 seconds.
   - When the power is turned off, the LED indicator turns off.
3. Place a device compliant with the Qi Wireless Charging standard in the center of the charging area on the tray.
   - The LED indicator turns on in amber or green when charging starts.
   - For details on the LED indicator, refer to the following LED indicator table.
   - Charging starts when all the doors and liftgate are closed.
   - The function to reduce noise on the radio operates if the power button is pressed for about 1 second during charging. Use it when noise occurs on the radio due to interference by the Wireless Charger (Qi). Press the power button again for about 1 second to cancel the function.

LED indicator

The status of the Wireless Charger (Qi) can be checked using the LED indicator.

Status	Illumination/flash pattern
OFF	Does not turn on
Stand-by (charging is possible)	Turns on in white
Normal charging	Turns on in amber
Fast charging*1	Turns on in green
Normal charging (charging efficiency is low)	Flashes in amber
Fast charging*1 (charging efficiency is low)	Flashes in green
Stand-by (charging is not possible)	Flashes in white
Charging is stopped due to high temperature or foreign matter detected	Flashes in red
Charging is stopped due to internal problem or malfunction	Turns on in red

*1 Some mobile devices can switch between normal charging and fast charging.

⚠ CAUTION

- *While a mobile device is placed on the charging area, keep the vehicle key away from the Wireless Charger (Qi). The vehicle key may not be detected due to radio wave interference by the Wireless Charger (Qi).*

- *Charging may not operate normally under the following conditions:*
  - *The mobile device is fully charged.*
  - *There is foreign matter between the mobile device and the charging area.*
  - *The temperature of the mobile device is high.*
  - *The mobile device is placed with the charging side facing upward.*
  - *The mobile device is placed in a position extremely deviating from the center of the charging area.*
  - *Your vehicle is in an area where strong radio waves or electrical noise occur such as near a television tower, power plant, or airport.*
  - *The Near Field Communication (NFC) function setting of the mobile device is on (depends on the model of the mobile device).*
- *Keep the following items away from the charging area. Otherwise the data stored on the mobile device could be erased or the device could malfunction.*
  - *Magnetic items such as magnets, magnetic cards, and magnetic recording media.*
  - *High precision devices such as wristwatches.*
- *Before using the Wireless Charger (Qi), make sure to back up the data stored on the mobile device. The data on the mobile device could be deleted.*
- *Do not wipe the Wireless Charger (Qi) using oil, alcohol, or thinner, or spray hairspray or insecticide onto it. Otherwise, it could cause damage or cracking.*
- *Do not leave mobile devices in the cabin. The temperature inside the cabin may become very hot, causing the devices to malfunction.*

NOTE

- *A mobile device larger than the charging area cannot be charged. In addition, even if the mobile device is in the charging area, the charging efficiency may decrease or charging may not be possible depending on where the mobile device is placed.*
- *If the function to reduce noise on the radio is used, fast charging may be disabled depending on the mobile device being charged.*
- *If the LED indicator is flashing in amber or green, the charging efficiency is low. Check that there is no foreign matter between the mobile device and the charging area, and position the mobile device near the center of the charging area.*
- *Depending on the mobile device case or accessories used, the mobile device may not charge, or the charging efficiency may be reduced resulting in a longer charging time. If charging does not start even when a mobile device is placed on the charging area, remove the mobile device case or any accessories.*
- *While the keyless entry is operating, charging may stop temporarily, however, this does not indicate a problem.*
- *During charging, the Wireless Charger (Qi) and the mobile device become warm, however, this does not indicate a problem.*

- *If the mobile device temperature rises during charging, charging may stop due to the protection function of the device. If that happens, wait until the mobile device cools down sufficiently and then recharge it.*
- *When using the Wireless Charger (Qi), applications using the Near Field Communication (NFC) function may activate, but this does not indicate a problem with the Wireless Charger (Qi).*

Trademarks

"Qi" and the Qi symbol are trademarks or registered trademarks of the Wireless Power Consortium (WPC).

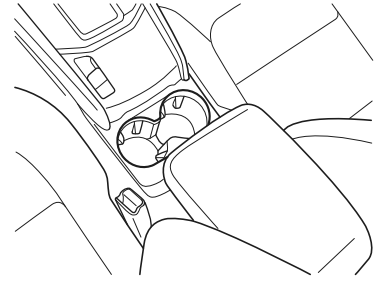
Cup Holder

⚠ 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.

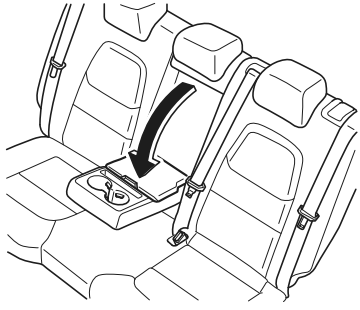
Do not put anything other than cups or drink cans in cup holders:
Putting objects other than cups or drink cans in a cup holder is dangerous. During sudden braking or maneuvering, occupants could be hit and injured, or objects could be thrown around the vehicle, causing interference with the driver and the possibility of an accident. Only use a cup holder for cups or drink cans.

▼ **Front**



▼ Rear*

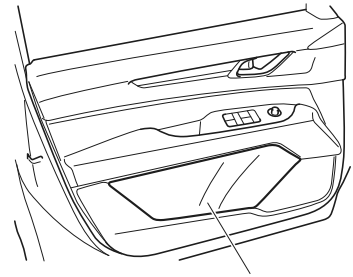
The rear cup holder is on the rear center armrest.



Bottle Holder

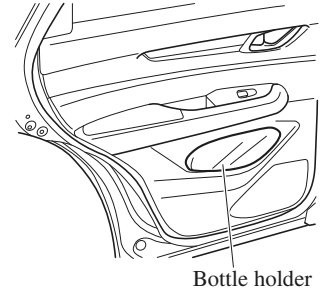
Bottle holders are on the inside of the doors.

Front



Bottle holder

Rear



Bottle holder

⚠ CAUTION

Do not use the bottle holders for containers without caps. The contents may spill when opening/closing the door or while driving the vehicle.

*Some models.

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.

When loading cargo, make sure that it is completely secured:
If the cargo is not completely secured, it may move or collapse while driving or during sudden braking, resulting in injury or an accident.

Do not put articles in storage spaces with no lid:
Putting articles in storage spaces with no lid is dangerous as they could be thrown around the cabin if the vehicle is suddenly accelerated and cause injury depending on how the article is stored.

⚠ CAUTION

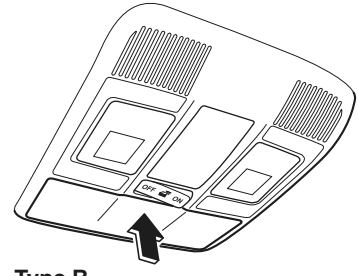
Do not leave lighters or eyeglasses in the storage boxes while parked under the sun. A lighter could explode or the plastic material in eyeglasses could deform and crack from high temperature.

▼ Overhead Console

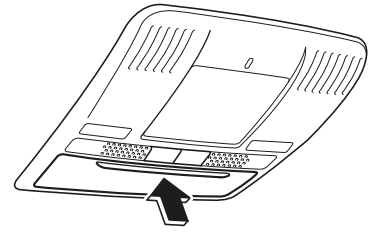
This console box is designed to store eyeglasses or other accessories.

Push and release to open.

Type A

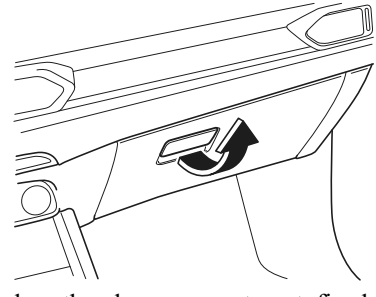


Type B



▼ Glove Compartment

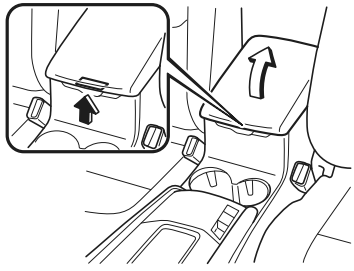
To open the glove compartment, pull the latch toward you.



To close the glove compartment, firmly press in the center of the glove compartment lid.

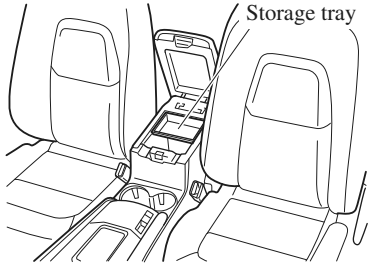
▼ Center Console

To open, pull the release latch.



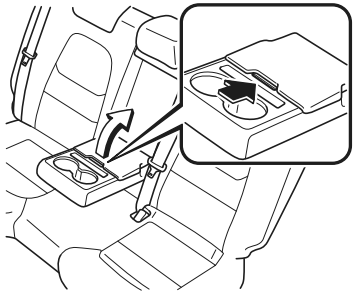
Storage tray

The storage tray can be removed.



▼ Armrest Box*

To open, push the button and pull up the lid.



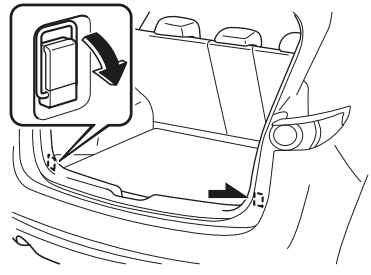
 *Some models.

▼ Luggage Compartment

Cargo Securing Loops

Use the cargo securing 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 cargo securing loops as it will damage them.

Trim side

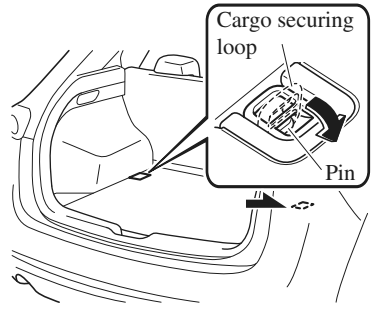


Luggage board side

⚠ CAUTION

When not using the cargo securing loops, return them to their original positions. If the cargo securing loops are not returned to their original positions and cargo is placed on the top of them, the cargo securing loops could be deformed or damaged.

When using the cargo securing loops, hook them to the pins.



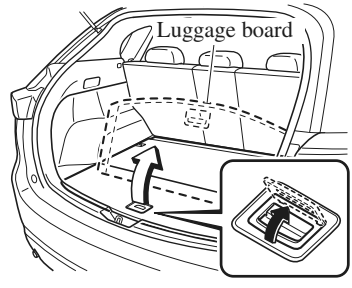
Cargo Sub-Compartment

The cargo sub-compartment is located under the luggage board, and it can be used to store small items.

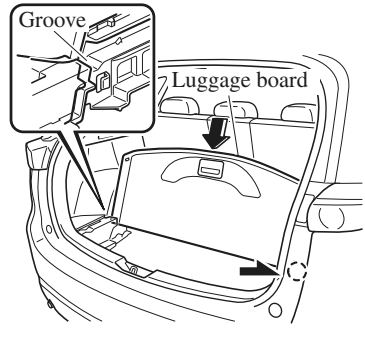
⚠ CAUTION

- *Do not apply excessive force to the luggage board when setting it up. Otherwise, it could deform or damage the luggage board.*
- *Return the luggage board to its original position before driving the vehicle. If the vehicle is driven with the luggage board set up, it could cause an unexpected accident.*
- *When not using the handle, return it to its original position. If the handle is not returned to its original position and cargo is placed, it could contact the handle and the handle could be deformed or damaged.*

1. Lift up the luggage board.



2. Insert the luggage board into the left and right grooves.



Luggage Board

The height of the floor surface can be adjusted by changing the installation position of the luggage board.

Reversible Luggage Board*

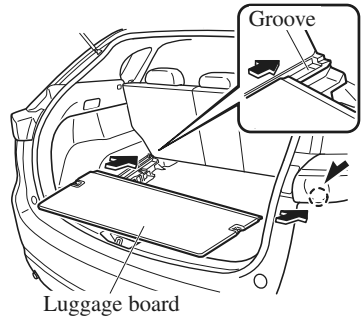
The luggage board can be used with the underside facing up, depending on the intended use. The underside is made of stain-resistant material which is easy to clean.

⚠ CAUTION

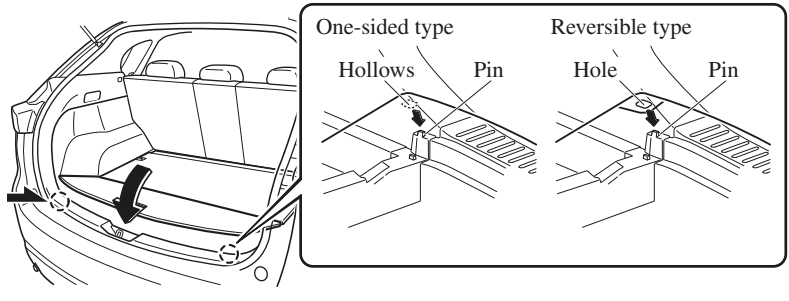
Do not spray large amounts of liquid such as water on the luggage board. If a large amount of water or other liquid is poured or sprayed on the luggage board, the water or other liquid may leak down and wet the luggage under the board.

When using the luggage board in the upper level

1. Place the front luggage board.



2. Insert the left and right hollows or holes of the rear luggage board into the pins.

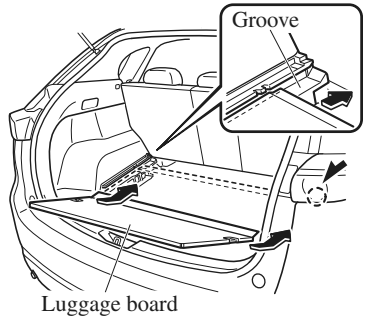


3. Remove in the reverse order of the installation procedure.

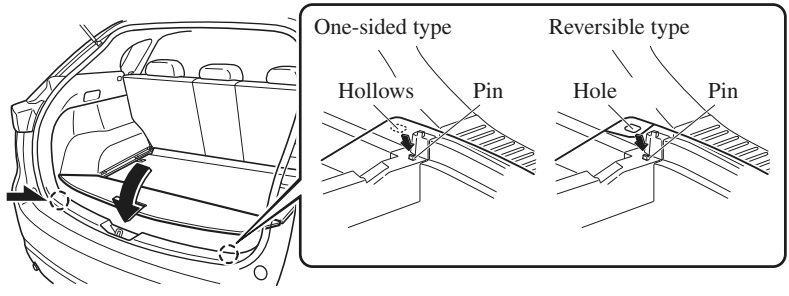
When using the luggage board in the lower level

1. When not using the cargo securing loops, return them to their original positions. Refer to Cargo Securing Loops on page 5-51

2. Slide the front luggage board into the lower grooves and install.



3. Insert the left and right hollows or holes of the rear luggage board into the pins.



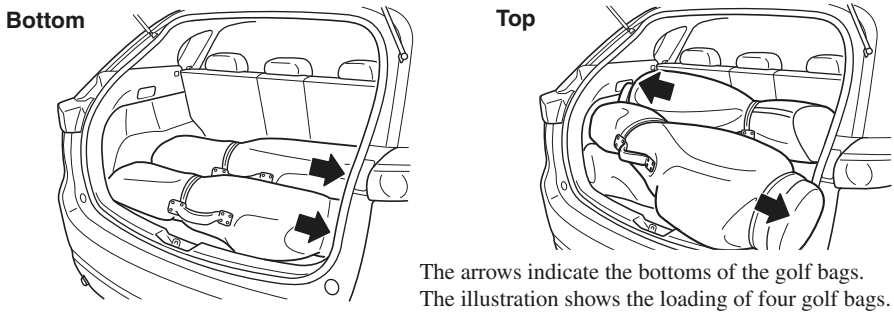
4. Remove in the reverse order of the installation procedure.

NOTE

Loading golf bags

(Some golf bags may not fit using the following methods depending on their sizes.)
Up to four golf bags can be carried in the luggage compartment.
Bottom: Place the first and second golf bags in the luggage compartment with the bottoms pointed to the right.

Top: Place the third golf bag with its bottom pointed to the left and the fourth golf bag with its bottom pointed to the right in the luggage compartment.



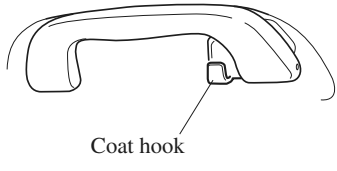
The arrows indicate the bottoms of the golf bags.
The illustration shows the loading of four golf bags.

▼ Rear Coat Hooks

⚠ WARNING

Never hang heavy or sharp objects on the assist grips and coat hooks:
Hanging heavy or sharp-ended objects such as a coat hanger from the assist grips or coat hooks is dangerous as they can fly off and hit an occupant in the cabin if a curtain air bag was to deploy, which could result in serious injury or death.

Always hang clothes on the coat hooks and the assist grips without hangers.



MEMO

6 Maintenance and Care

How to keep your Mazda in top condition.

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Introduction

Be careful not to hurt yourself when inspecting your vehicle, replacing a tire, or doing some kind of maintenance such as car washing. In particular, wear thick work gloves such as cotton gloves when touching areas that are difficult to see while inspecting or working on your vehicle. Doing inspections or procedures with your bare hands could cause injury.

If you are unsure about any procedure this manual 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.

To continue warranty eligibility and to protect your investment, it is your responsibility to properly maintain your vehicle according to factory recommended schedules outlined in this manual. As part of this you must keep your maintenance records, receipts, repair orders and any other documents as evidence this maintenance was performed. You must present these documents, should any warranty coverage disagreement occur. Failure to do so can result in your warranty being voided either in whole or in part.

This evidence may consist of the following:

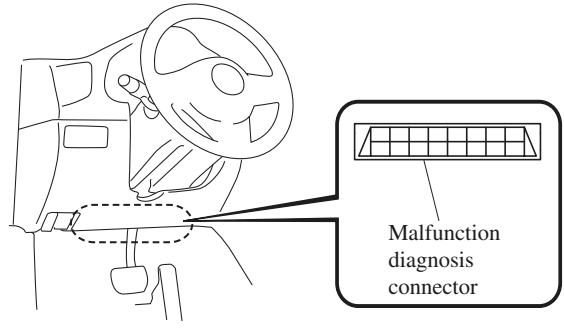
- The Mazda Scheduled Maintenance Record, refer to the Warranty Booklet, must be completely filled out showing mileage, repair order number, date for each service, and signed by a qualified automotive service technician who service vehicles.
- Original copies of repair orders or other receipts that include the mileage and date the vehicle was serviced. Each receipt should be signed by a qualified automotive service technician.
- For self maintenance, a statement that you completed the maintenance yourself, displaying mileage and the date the work was performed. Also, receipts for the replacement parts (fluid, filters, etc.) indicating the date and mileage must accompany this statement.

NOTE
If you elect to perform maintenance yourself or have your vehicle serviced at a location other than an Authorized Mazda Dealer, Mazda requires that all fluids, parts and materials must meet Mazda standards for durability and performance as described in this manual.

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.**
Selecting “Maintenance Monitor” enables the system to notify you of your vehicle's approaching inspection/servicing period, refer to the Information section in the Mazda Connect Owner's Manual for the details.

The malfunction diagnosis connector is designed exclusively for connecting the specially designed device to perform on-board diagnosis.
Do not connect any devices other than the specially designed malfunction diagnosis devices for servicing. If any device other than the malfunction diagnosis device is connected, it may affect the vehicle's electrical devices or lead to damage such as battery depletion.



Scheduled Maintenance (U.S.A., Canada, and Puerto Rico)

Follow Schedule 1 if the vehicle is operated mainly where none of the following conditions (severe driving 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 residents follow Schedule 2.)

Vehicles using Engine Oil Flexible Maintenance

Engine Oil Flexible Maintenance is selected by default for U.S.A. and Puerto Rico residents.

If any following conditions do apply, follow Schedule 2 with engine oil fixed maintenance.

- Extended periods of idling or low-speed operation such as police car, taxi or driving school car
- Driving in dusty conditions

The vehicle calculates the remaining oil life based on engine operating conditions. The vehicle lets you know when an oil change is due by illuminating the wrench indicator light in the instrument cluster. Change the oil as soon as possible within the next 1,000 km (600 mile) or 15 days. Refer to the Information section in the Mazda Connect Owner's Manual for the details.

NOTE

- *Please ensure that the Flexible Oil Maintenance Setting is reset after each Oil and Filter replacement.*
- *For maintenance guidelines beyond the miles/months listed, follow the maintenance intervals provided in the Scheduled Maintenance Tables.*

▼ Schedule 1

U.S.A. and Puerto Rico residents - Engine oil flexible maintenance interval

Use when the maintenance monitor for "Oil Change" is set to "Flexible". For the details, refer to the Information section in the Mazda Connect Owner's Manual.

Maintenance Interval		Number of months or kilometers (miles), whichever comes first.							
	Months	12	24	36	48	60	72	84	96
	×1000 km	12	24	36	48	60	72	84	96
	×1000 miles	7.5	15	22.5	30	37.5	45	52.5	60
Spark plugs	SKYACTIV-G 2.5T	Replace every 64,000 km (40,000 miles).							
	Except SKYACTIV-G 2.5T	Replace every 120,000 km (75,000 miles).							
Air filter				R			R		
Drive belts				I			I		
Engine oil & filter*1		Replace when wrench indicator light is ON. (Max interval: 12 months or 12,000 km (7,500 miles))							
Engine coolant*2		Replace at first 192,000 km (120,000 miles) or 10 years; after that, every 96,000 km (60,000 miles) or 5 years.							
Fuel lines and hoses*3			I		I		I		I
Hoses and tubes for emission*3					I				I
Brake lines, hoses and connections			I		I		I		I
Disc brakes		I	I	I	I	I	I	I	I
Tire (Rotation)		Rotate every 12,000 km (7,500 miles).							
Steering operation and linkages			I		I		I		I
Front and rear suspension, ball joints and wheel bearing axial play			I		I		I		I
Driveshaft dust boots			I		I		I		I
Bolts and nuts on chassis and body			T		T		T		T
Exhaust system and heat shields						I			
Emergency flat tire repair kit (if equipped)*4		Inspect annually.							
Cabin air filter			R		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
D: Drain

Scheduled Maintenance

Remarks:

*1 The engine oil and filter must be changed at least once a year or within 12,000 km (7,500 miles) since last engine oil and filter change. Reset the engine oil data whenever replacing the engine oil regardless of the message/wrench indicator light display.

*2 Use of FL-22 is recommended when replacing engine coolant. Using engine coolant other than FL-22 may cause serious damage to the engine and cooling system.

*3 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.

*4 Check the tire repair fluid expiration date every year when performing the periodic maintenance. Replace the tire repair fluid bottle with new one before the expiration date.

▼ Schedule 2

U.S.A. and Puerto Rico residents - Severe driving conditions maintenance interval

Maintenance Interval		Number of months or kilometers (miles), whichever comes first.											
	Months	**6**	**12**	**18**	**24**	**30**	**36**	**42**	**48**	**54**	**60**	**66**	**72**
	×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**
Spark plugs	SKYACTIV-G 2.5T	Replace every 64,000 km (40,000 miles).											
	Except SKY-ACTIV-G 2.5T	Replace every 120,000 km (75,000 miles).											
Air filter*1							R						R
Drive belts					I				I				I
Engine oil & filter	Flexible*2	Replace when wrench indicator light is ON. (Max interval: 12 months or 12,000 km (7,500 miles))											
	Fixed	R	R	R	R	R	R	R	R	R	R	R	R
Engine coolant*3		Replace at first 192,000 km (120,000 miles) or 10 years; after that, every 96,000 km (60,000 miles) or 5 years.											
Engine coolant level		I	I	I	I	I	I	I	I	I	I	I	I
Fuel lines and hoses*4				I			I			I			I
Hoses and tubes for emission*4							I						I
Function of all lights		I	I	I	I	I	I	I	I	I	I	I	I
Brake lines, hoses and connections				I			I			I			I
Brake and clutch fluid level		I	I	I	I	I	I	I	I	I	I	I	I
Disc brakes		I	I	I	I	I	I	I	I	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
Steering operation and linkages				I			I			I			I

Maintenance Interval	Number of months or kilometers (miles), whichever comes first.												
	Months	6	12	18	24	30	36	42	48	54	60	66	72
	×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
Front and rear suspension, ball joints and wheel bearing axial play				I			I			I			I
Driveshaft dust boots				I			I			I			I
Bolts and nuts on chassis and body				T			T			T			T
Exhaust system and heat shields								I					
All locks and hinges	L	L	L	L	L	L	L	L	L	L	L	L	
Washer fluid level	I	I	I	I	I	I	I	I	I	I	I	I	
Emergency flat tire repair kit (if equipped)*5	Inspect annually.												
Cabin air filter	Replace every 48,000 km (30,000 miles) or 2 years.												

Chart symbols:

I: Inspect: Inspect and clean, repair, adjust, fill up, or replace if necessary.
R: Replace
L: Lubricate
C: Clean
T: Tighten
D: Drain

Remarks:

*1 If the vehicle is operated in very dusty or sandy areas, clean and if necessary, replace the air filter more often than the recommended intervals.

*2 Engine oil flexible maintenance is available for U.S.A. and Puerto Rico residents whose vehicle is operated mainly where none of the following conditions apply.

- Extended periods of idling or low-speed operation such as police car, taxi or driving school car
- Driving in dusty conditions

If any do apply, follow fixed maintenance.
The engine oil and filter must be changed at least once a year or within 12,000 km (7,500 miles) since last engine oil and filter change. Reset the engine oil data whenever replacing the engine oil regardless of the message/wrench indicator light display.

*3 Use of FL-22 is recommended when replacing engine coolant. Using engine coolant other than FL-22 may cause serious damage to the engine and cooling system.

*4 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.

*5 Check the tire repair fluid expiration date every year when performing the periodic maintenance. Replace the tire repair fluid bottle with new one before the expiration date.

Scheduled Maintenance

Canada residents

Maintenance Interval		Number of months or kilometers (miles), whichever comes first.											
	Months	**6**	**12**	**18**	**24**	**30**	**36**	**42**	**48**	**54**	**60**	**66**	**72**
	×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**
Spark plugs	SKYACTIV-G 2.5T	Replace every 64,000 km (40,000 miles).											
	Except SKY-ACTIV-G 2.5T	Replace every 120,000 km (75,000 miles).											
Air filter		I	I	I	I	I	I	I	I	I	I	I	I
		Replace every 56,000 km (35,000 miles) or 3 years.											
Drive belts							I						I
Engine oil & filter*1		R	R	R	R	R	R	R	R	R	R	R	R
Engine coolant*2		Replace at first 192,000 km (120,000 miles) or 10 years; after that, every 96,000 km (60,000 miles) or 5 years.											
Engine coolant level		I	I	I	I	I	I	I	I	I	I	I	I
Fuel lines and hoses*3					I				I				I
Hoses and tubes for emission*3									I				
Function of all lights		I	I	I	I	I	I	I	I	I	I	I	I
Brake lines, hoses and connections					I				I				I
Brake and clutch fluid level		I	I	I	I	I	I	I	I	I	I	I	I
Disc brakes		Inspect every 24,000 km (15,000 miles) or 1 year.											
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
Steering operation and linkages					I				I				I
Front and rear suspension, ball joints and wheel bearing axial play					I				I				I
Driveshaft dust boots					I				I				I
Bolts and nuts on chassis and body					T				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
Washer fluid level		I	I	I	I	I	I	I	I	I	I	I	I
Emergency flat tire repair kit (if equipped)*4		Inspect annually.											
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
D: Drain

Remarks:

*1 Reset the engine oil data whenever replacing the engine oil regardless of the message/wrench indicator light display.
*2 Use of FL-22 is recommended when replacing engine coolant. Using engine coolant other than FL-22 may cause serious damage to the engine and cooling system.
*3 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.
*4 Check the tire repair fluid expiration date every year when performing the periodic maintenance. Replace the tire repair fluid bottle with new one before the expiration date.

Scheduled Maintenance (Mexico)

Follow Schedule 1 if the vehicle is operated mainly where none of the following conditions (severe driving 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
For maintenance guidelines beyond the kilometers/months listed, follow the maintenance intervals provided in the Scheduled Maintenance Tables.

▼ 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
Drive belts					I				I				I
Engine oil & filter*1		R	R	R	R	R	R	R	R	R	R	R	R
Cooling system					I				I				I
Engine coolant*2		Replace at first 200,000 km or 10 years; after that, every 100,000 km or 5 years											
Air filter			R		R		R		R		R		R
Fuel lines and hoses					I*3				I*3				I
Hoses and tubes for emission					I*3				I*3				I
Fuel filter		Replace every 60,000 km											
Spark plugs	SKYACTIV-G 2.5T	I	I	I	I	I	I	I	I	I	I	I	I
		Replace every 64,000 km											
	Except SKY-ACTIV-G 2.5T	I	I	I	I	I	I	I	I	I	I	I	I
		Replace every 120,000 km											
Brake lines, hoses and connections			I		I		I		I		I		I
Brake and clutch fluid level		I	I	I		I	I	I		I	I	I	
Brake fluid					R				R				R

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
Disc brakes		I	I	I	I	I	I	I	I	I	I	I	I
Tire (Rotation)		Rotate every 10,000 km											
Tire inflation pressure and tire wear		I	I	I	I	I	I	I	I	I	I	I	I
Steering operation and linkages		I	I	I	I	I	I	I	I	I	I	I	I
Front and rear suspension, ball joints and wheel bearing axial play			I		I		I		I		I		I
Driveshaft dust boots			I		I		I		I		I		I
Bolts and nuts on chassis and body			T		T		T		T		T		T
Exhaust system and heat shields			I		I		I		I		I		I
All locks and hinges		L	L	L	L	L	L	L	L	L	L	L	L
Washer fluid level		I	I	I	I	I	I	I	I	I	I	I	I
Emergency flat tire repair kit (if equipped)*4		Inspect annually.											
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
D: Drain

Remarks:

*1 Reset the engine oil data whenever replacing the engine oil regardless of the message/wrench indicator light display.
*2 Use of FL-22 is recommended when replacing engine coolant. Using engine coolant other than FL-22 may cause serious damage to the engine and cooling system.
*3 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.
*4 Check the tire repair fluid expiration date every year when performing the periodic maintenance. Replace the tire repair fluid bottle with new one before the expiration date.

▼ 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
Drive belts									I				
Engine oil & filter*1		R	R	R	R	R	R	R	R	R	R	R	R
Cooling system									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
Engine coolant*2		Replace at first 200,000 km or 10 years; after that, every 100,000 km or 5 years											
Engine coolant level		I	I	I	I	I	I	I	I	I	I	I	I
Air filter			C		R		C		R		C		R
Fuel lines and hoses									I*3				
Hoses and tubes for emission									I*3				
Fuel filter		Replace every 60,000 km											
Spark plugs	SKYACTIV-G 2.5T		I		I		I		I		I		I
		Replace every 64,000 km											
	Except SKYACTIV-G 2.5T		I		I		I		I		I		I
		Replace every 120,000 km											
Function of all lights		I	I	I	I	I	I	I	I	I	I	I	I
Brake lines, hoses and connections					I				I				I
Brake and clutch fluid level			I		I		I				I		I
Brake fluid									R				
Disc brakes			I		I		I		I		I		I
Tire (Rotation)		Rotate every 10,000 km											
Tire inflation pressure and tire wear			I		I		I		I		I		I
Steering operation and linkages			I		I		I		I		I		I
Front and rear suspension, ball joints and wheel bearing axial play					I				I				I
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
Emergency flat tire repair kit (if equipped)*4		Inspect annually.											
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
D: Drain

Remarks:

*1 Reset the engine oil data whenever replacing the engine oil regardless of the message/wrench indicator light display.

*2 Use of FL-22 is recommended when replacing engine coolant. Using engine coolant other than FL-22 may cause serious damage to the engine and cooling system.

*3 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.

*4 Check the tire repair fluid expiration date every year when performing the periodic maintenance. Replace the tire repair fluid bottle with new one before the expiration date.

(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
Drive belts					I								I
Engine oil & filter*1		R	R	R	R	R	R	R	R	R	R	R	R
Cooling system					I								I
Engine coolant*2		Replace at first 200,000 km or 10 years; after that, every 100,000 km or 5 years											
Engine coolant level		I	I	I	I	I	I	I	I	I	I	I	I
Air filter			C		R		C		R		C		R
Fuel lines and hoses					I*3								I
Hoses and tubes for emission					I*3								I
Fuel filter		Replace every 60,000 km											
Spark plugs	SKYACTIV-G 2.5T		I		I		I		I		I		I
		Replace every 64,000 km											
	Except SKYACTIV-G 2.5T		I		I		I		I		I		I
		Replace every 120,000 km											
Function of all lights		I	I	I	I	I	I	I	I	I	I	I	I
Brake lines, hoses and connections					I				I				I
Brake and clutch 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
Front and rear suspension, ball joints and wheel bearing axial play					I				I				I
Driveshaft dust boots					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
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
Emergency flat tire repair kit (if equipped)*4	Inspect annually.												
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
D: Drain

Remarks:

*1 Reset the engine oil data whenever replacing the engine oil regardless of the message/wrench indicator light display.

*2 Use of FL-22 is recommended when replacing engine coolant. Using engine coolant other than FL-22 may cause serious damage to the engine and cooling system.

*3 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.

*4 Check the tire repair fluid expiration date every year when performing the periodic maintenance. Replace the tire repair fluid bottle with new one before the expiration date.

Owner Maintenance Precautions

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 6-24)
- Engine coolant level (page 6-22)
- Engine oil level (page 6-21)
- Washer fluid level (page 6-24)

At Least Monthly

- Tire inflation pressures (page 6-35)

At Least Twice a Year (For Example, Every Spring and Fall)

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 6-22)
- Engine oil (page 6-20)

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 6-2), 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. Refer to Introduction (page 6-2) for owner's responsibility in protecting your investment. For details, read the separate Mazda Warranty statement provided with the vehicle. If you are 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, loose clothing or have long hair or a long beard. Either can become entangled in moving parts and result in injury.



Pull over to a safe location, then switch the ignition off 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.

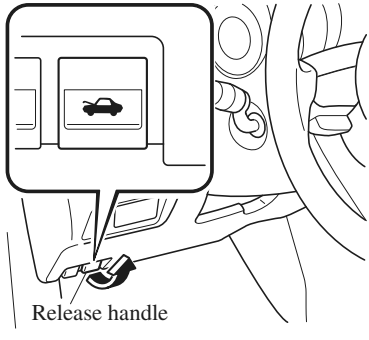
Hood

⚠ WARNING

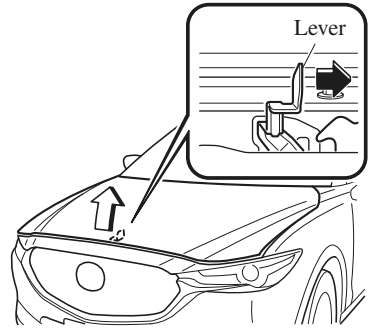
Always check that the hood is closed and securely locked:
A hood that is not closed and securely locked is dangerous as it could fly open while the vehicle is moving and block the driver's vision which could result in a serious accident.

▼ Opening the Hood

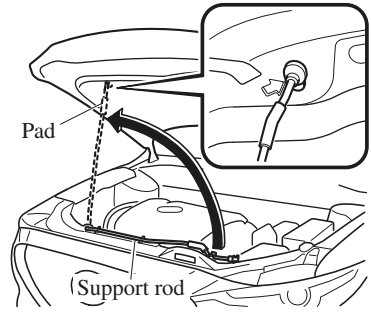
1. With the vehicle parked, pull the release handle to unlock the hood.



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

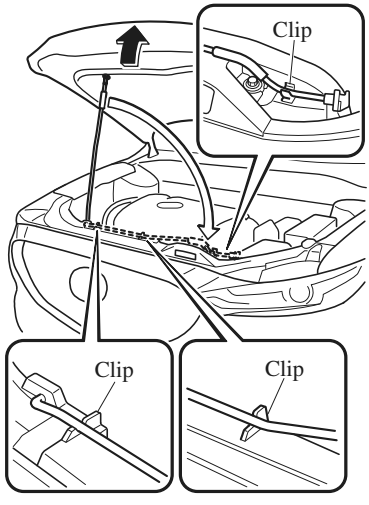


3. Grasp the support rod in the padded area and secure it in the support rod hole indicated by the arrow to hold the hood open.



▼ Closing the Hood

1. Check under the hood area to make certain all filler caps are in place and all loose items (e.g. tools, oil containers, etc.) have been removed.
2. Lift the hood, grasp the padded area on the support rod, and secure the support rod in the clip. Verify that the support rod is secured in the clip before closing the hood.



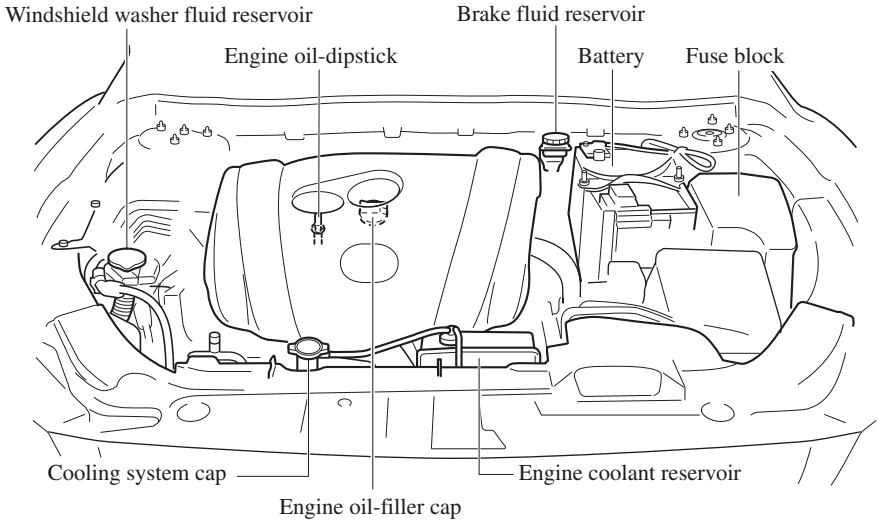
3. Lower the hood slowly to a height of about 20 cm (7.9 in) above its closed position and then let it drop.

⚠ CAUTION

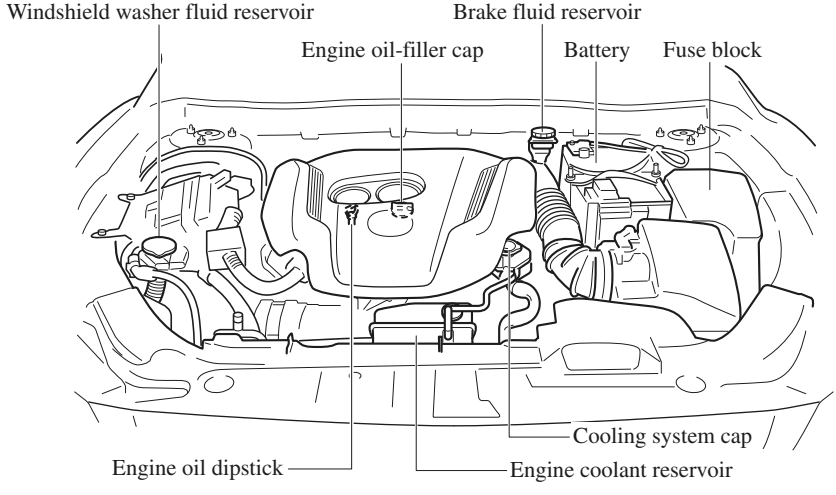
When closing the hood, do not push it excessively such as by applying your weight. Otherwise, the hood could be deformed.

Engine Compartment Overview

SKYACTIV-G 2.5



SKYACTIV-G 2.5T



Engine Oil

NOTE
Changing the engine oil should be performed by an Authorized Mazda Dealer.
Refer to Introduction (page 6-2) for owner's responsibility in protecting your investment.

▼ Recommended Oil

U.S.A., Canada

SKYACTIV-G 2.5

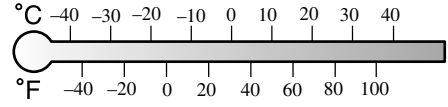
Use SAE 0W-20 engine oil.
Mazda Genuine Oil is used in your Mazda vehicle. Mazda Genuine 0W-20 Oil is required to achieve optimum fuel economy.

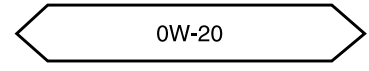
For maintenance service, Mazda recommends Genuine Mazda Parts and Genuine Mazda Premium Oil.



(ILSAC)

Only use SAE 0W-20 oil “Certified For Gasoline Engines” by the American Petroleum Institute (API).
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.





SKYACTIV-G 2.5T

Use SAE 5W-30 engine oil.
Mazda Genuine Oil is used in your Mazda vehicle. Mazda Genuine 5W-30 Oil is required to achieve optimum fuel economy.

For maintenance service, Mazda recommends Genuine Mazda Parts and Genuine Mazda Premium Oil.

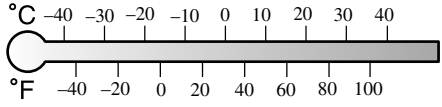


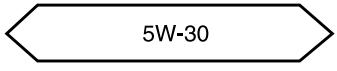


(ILSAC)

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requirements of the International Lubricant Standardization and Approval Committee (ILSAC), comprised of U.S. and Japanese automobile manufacturers.



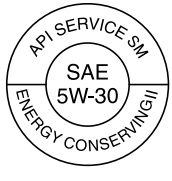


Except U.S.A., Canada

SKYACTIV-G 2.5

Use SAE 5W-30 engine oil.
Oil container labels provide important information.
A chief contribution this type of oil makes to fuel economy is reducing the amount of fuel necessary to overcome engine friction.

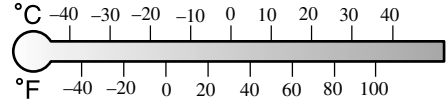
For maintenance service, Mazda recommends Mazda Genuine Parts.

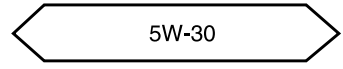




(ILSAC)

(Mexico)





SKYACTIV-G 2.5

Use API SM or higher, SAE 5W-30 engine oil. If SAE 5W-30 engine oil is not available, use SAE 5W-20, SAE 0W-30 or SAE 10W-30 engine oil.

The quality designation SM, SN or SP must be on the label.

SKYACTIV-G 2.5T

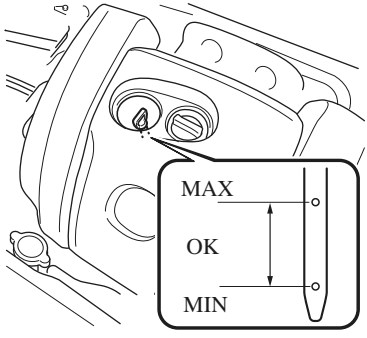
Use API SM or higher, SAE 5W-30 engine oil. If SAE 5W-30 engine oil is not available, use SAE 0W-30 or SAE 10W-30 engine oil.

The quality designation SM, SN or SP must be on the label.

▼ Inspecting Engine Oil Level

1. Be sure the vehicle is on a level surface.
2. Warm up the engine to normal operating temperature.
3. Turn it off and wait at least 5 minutes for the oil to return to the oil pan.

4. 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 the MIN and MAX marks.
   If it is near or below MIN, add enough oil to bring the level to MAX.

⚠ CAUTION

Do not overfill the engine oil. 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.



Do not touch rotating parts such as the fan belt when inspecting inside the engine compartment:
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.

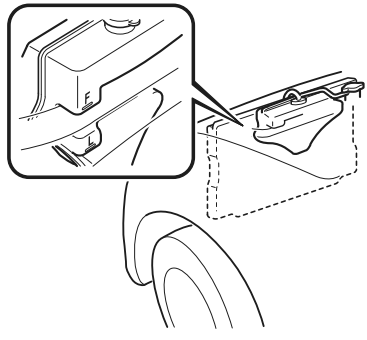
NOTE
Changing the coolant should be done by an Authorized Mazda Dealer.

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.

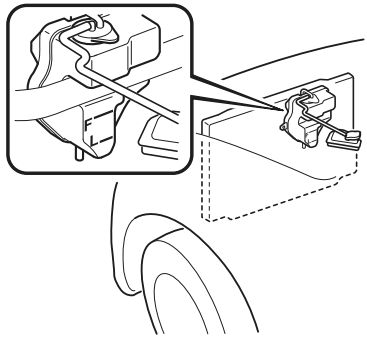
Inspect the condition and connections of all cooling system and heater hoses. Replace any that are swollen or deteriorated.

The coolant should be at full in the radiator and between the F and L marks on the coolant reservoir when the engine is cool.

SKYACTIV-G 2.5



SKYACTIV-G 2.5T



If it is at or near L, add enough coolant to the coolant reservoir to provide freezing and corrosion protection and to bring the level to F.
Securely tighten the coolant reservoir tank cap after adding coolant.

⚠ CAUTION

- *Radiator coolant will damage paint. Rinse it off quickly if spilled.*
- *If the "FL22" mark is shown on or near the cooling system cap, use of FL-22 is recommended when replacing engine coolant. Using engine coolant other than FL-22 may cause serious damage to the engine and cooling system.*



If the coolant reservoir is empty or new coolant is required frequently, consult an Authorized Mazda Dealer.

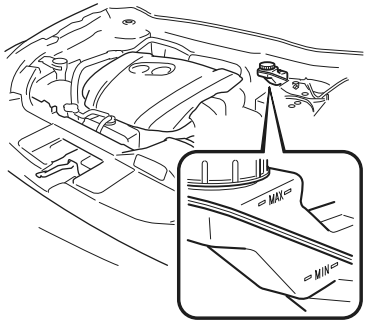
Brake Fluid

▼ Inspecting Brake Fluid Level

⚠ WARNING

If the brake fluid level is low, have the brakes inspected:
A low brake fluid level is dangerous. A low level could indicate brake lining wear or a brake system leak which could cause the brakes to fail and lead to an accident.

Inspect the fluid level in the reservoir regularly. It should be kept between the MAX and MIN lines.
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.



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.

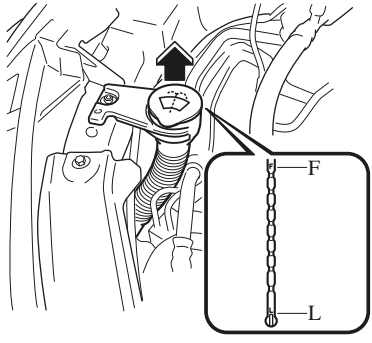
Using Washer Fluid Without Anti-freeze Protection in Cold Weather:
Operating your vehicle in temperatures below 4 °C (40 °F) using washer fluid without anti-freeze protection is dangerous as it could cause impaired windshield vision and result in an accident. In cold weather, always use washer fluid 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.

Add washer fluid under any of the following conditions.

- The top of the fluid level is low.
- The Low Washer Fluid Level Warning Indication/Warning Light (if equipped) turns on.

・The top of the fluid level is lower than L (if equipped).



Use plain water if washer fluid is unavailable.
But use only washer fluid in cold weather to prevent it from freezing.

NOTE
Front and rear washer fluid is supplied from the same reservoir.

Body Lubrication

All moving points of the body, such as door and hood hinges and locks, should be lubricated each time the engine oil is changed. Use a nonfreezing lubricant on locks during cold weather.

Make sure the hood's secondary latch keeps the hood from opening when the primary latch is released.

Wiper Blades

⚠ CAUTION

- *Hot waxes applied by automatic car washers have been known to affect the wiper's ability to clean windows.*
- *To prevent damage to the wiper blades, do not use gasoline, kerosene, paint thinner, or other solvents on or near them.*
- *When the wiper lever is in the AUTO position and the ignition is switched ON, 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 the vehicle, 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, do not try to sweep the wiper arm by hand.*
- *Do not bend the blade rubber unnecessarily when replacing it. Otherwise, the metal stiffener in the blade may deform and the windshield wiper operation may be adversely affected.*

NOTE

When raising both windshield wiper arms, raise the driver's side wiper arm first. When lowering the wiper arms, slowly lower the wiper arm from the passenger's side first while supporting it with your hand. Forcefully lowering the wiper arms could damage the wiper arm and blade, and may scratch or crack the windshield.

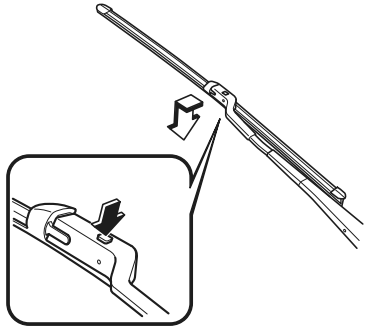
Replace the wiper blades using the following procedure.

1. Raise the wiper arm.

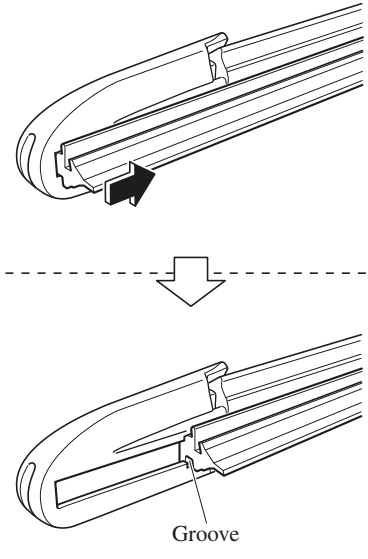
   ⚠ CAUTION

   To prevent damage to the windshield let the wiper arm down easily, do not let it slap down on the windshield.

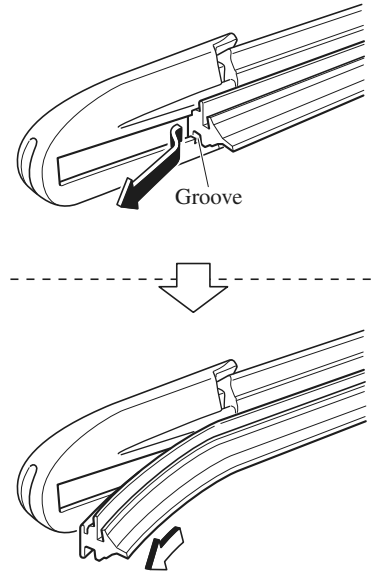
2. Slide the blade component in the direction of the arrow while pressing the wiper arm tab to remove the blade component from the wiper arm.



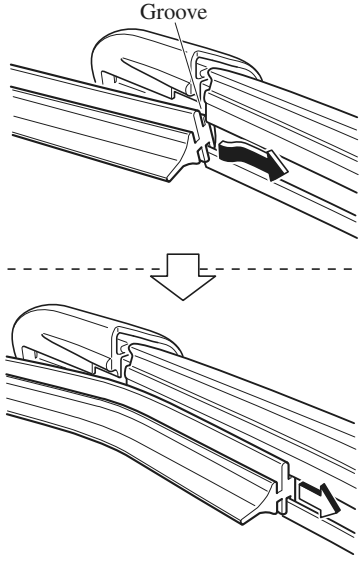
3. Pull the blade rubber in the direction of the arrow and slide it to a position where the blade holder groove can be checked.



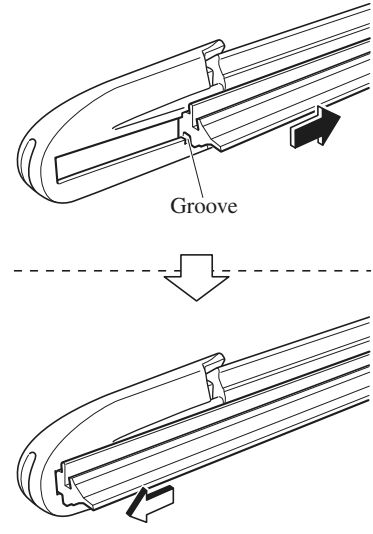
4. Pull the end of the blade rubber from the blade holder groove in the direction of the arrow and remove the blade rubber from the blade holder.



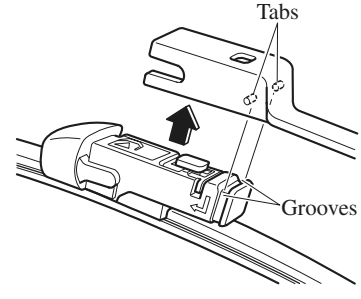
5. Insert the end of the new blade rubber into the groove of the blade holder until it contacts the end of the blade holder.



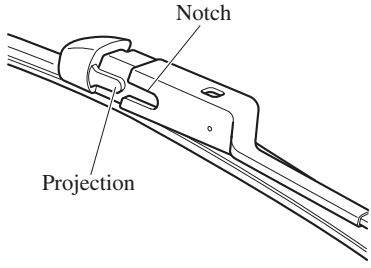
6. After pulling the blade rubber in the direction of the arrow and sliding the blade rubber to a position to check the blade holder groove, slide the blade rubber end in the opposite direction.



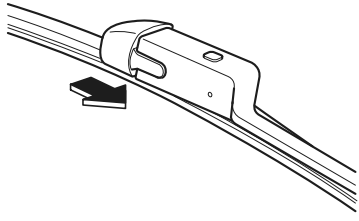
7. Make sure that the blade rubber is correctly installed to the blade holder.
8. Align the wiper arm tabs with the blade component grooves.



9. Align the blade component projection with the wiper arm notch.



10. Slide the blade component and install it to the wiper arm.



11. Slowly lower the wiper arm onto the windshield.

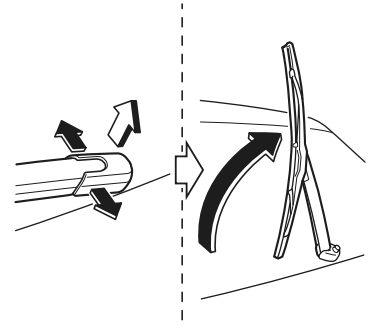
▼ Replacing Rear Window Wiper Blade

When the wiper no longer cleans well, the blade is probably worn or cracked. Replace it.

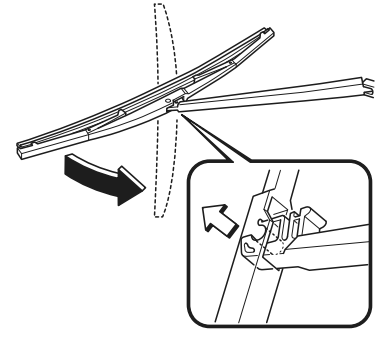
⚠ CAUTION

To prevent damage to the wiper arm and other components, do not move the wiper by hand.

1. Remove the cover and raise the wiper arm.



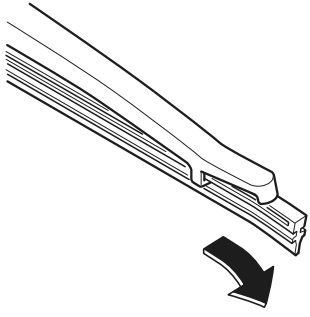
2. Firmly rotate the wiper blade to the right until it unlocks, then remove the blade.



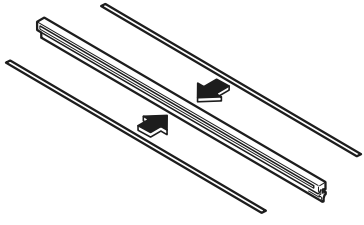
CAUTION

To prevent damage to the rear window, do not let the wiper arm fall on it.

3. Pull down the blade rubber and slide it out of the blade holder.



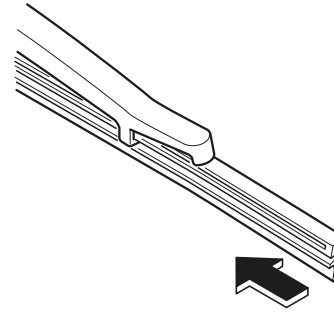
4. Remove the metal stiffeners from the blade rubber and install them in the new blade.



CAUTION

Do not 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.



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.

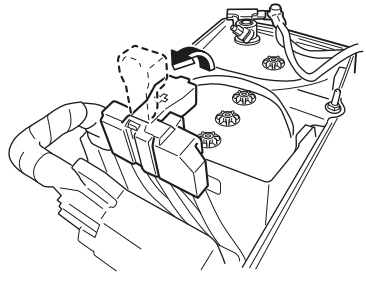

Wear eye protection and protective gloves to prevent contact with battery fluid:
Spilled battery fluid is dangerous.
Battery fluid contains SULFURIC ACID which could cause serious injuries if it gets in eyes, or on the skin or clothing. If this happens, immediately flush your eyes with water for 15 minutes 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.

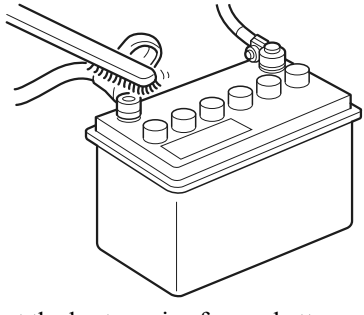

Keep flames and sparks away from battery cells and do not allow metal tools to contact the positive (+) or negative (-) terminal of the battery when working near a battery. Do not allow the positive (+) terminal to contact the vehicle body:
Flames and sparks near battery cells are dangerous. Hydrogen 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 battery cells.

Keep all flames and sparks away from battery cells because hydrogen gas is produced from battery cells while charging the battery or adding battery fluid:
Flames and sparks near 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 battery cells.

NOTE
Before performing battery maintenance, remove the battery cover.



▼ 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 and charge the battery every 6 weeks.

▼ Battery Replacement

Contact an Authorized Mazda Dealer for battery replacement.

Key Battery Replacement

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

- *Make sure the battery is installed correctly. Battery leakage could occur if it is not installed correctly.*
- *When replacing the battery, be careful not to touch any of the internal circuitry and electrical terminals, bend the electrical terminals, or get dirt in the transmitter as the transmitter could be damaged.*
- *There is the danger of explosion if the battery is not correctly replaced.*
- *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.*
- *Replace only with the same type battery (CR2032 or equivalent).*

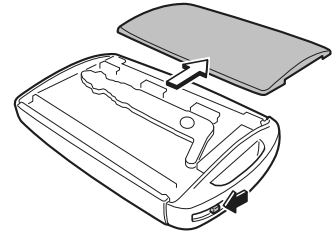
The following conditions indicate that the battery power is low:

- The KEY indicator light (green) flashes in the instrument cluster for about 30 seconds after the engine is switched OFF (for vehicles with a type A/type B instrument cluster (page 4-18, 4-36), messages are displayed in the instrument cluster).
- 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.

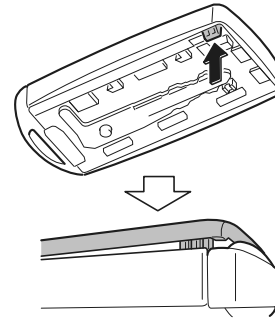
Replacing the battery at an Authorized Mazda Dealer, is recommended to prevent damage to the key. If replacing the battery by yourself, follow the instruction.

Replacing the key battery

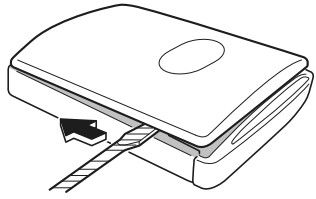
1. Remove the lower cover while sliding the knob in the direction of the arrow.



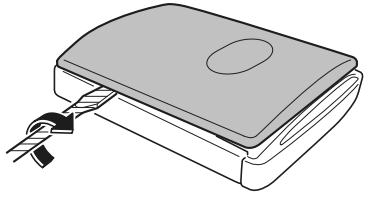
2. Press in the tab to unlock the upper cover.



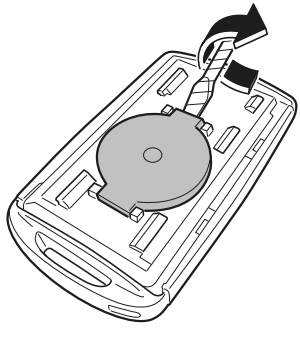
3. Insert a tape-wrapped flathead screwdriver into the gap and slide it in the direction of the arrow.



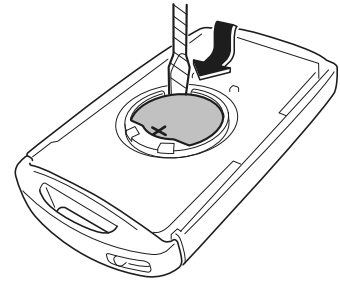
4. Twist the flathead screwdriver in the direction of the arrow and remove the upper cover.



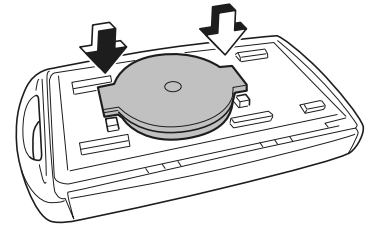
5. Remove the cap using the tape-wrapped flathead screwdriver.



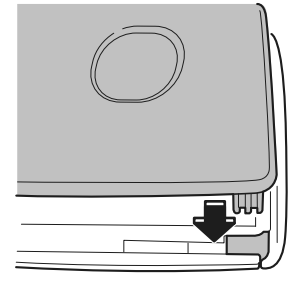
6. Remove the battery using tape-wrapped flathead screwdriver.



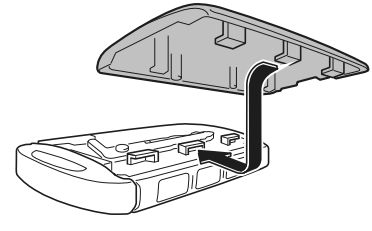
7. Insert a new battery into the transmitter so that the positive pole is facing up.
8. Install the cap.



9. Install the upper cover.



10. Insert the tabs of the lower cover into the slots of the transmitter and install the lower cover.



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

Never use 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.

Never use wrong-sized tires:
Using any other tire size than what is specified for the vehicle (page 9-12) 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 the vehicle.

▼ 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 Tires on page 9-12.

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.

Inspect all tire pressures monthly (including the spare) when the tires are cold. Maintain recommended pressures for the best ride, handling, and minimum tire wear.
Refer to the specification charts (page 9-12).

NOTE

- ***Cold inflation pressure***
  The cold inflation pressure is the pressure measured under ambient temperatures before the vehicle is driven.
- ***Maximum inflation pressure***
  The maximum inflation pressure is the upper limit of the cold inflation pressure designated by the tire manufacturer.
- ***Recommended inflation pressure***
  The recommended inflation pressure is the cold inflation pressure necessary for maintaining the performance of your Mazda.
- *Always check tire pressure when tires are cold.*
- *Warm tires normally exceed recommended pressures. Do not 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.

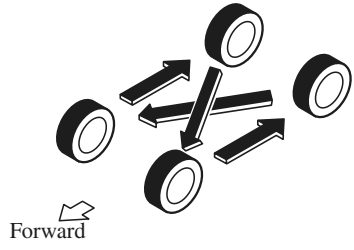
▼ Tire Rotation

⚠ WARNING

Rotate tires periodically:
Irregular tire wear is dangerous. To equalize tread wear for maintaining good performance in handling and braking, rotate the tires every 12,000 km (7,500 miles). However Mazda recommends to rotate every 8,000 km (5,000 miles) to help increase tire life and distribute wear more evenly.

Refer to Scheduled Maintenance on page 6-4.

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 9-12) 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.

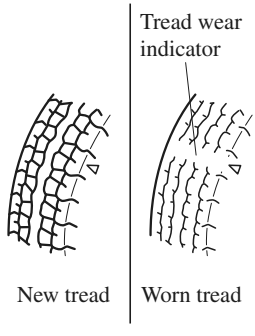
▼ Replacing a Tire

⚠ 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.

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 the tire before the band crosses 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. The period in which the tire was manufactured (both week and year) is indicated by a 4-digit number.
Refer to Tire Labeling on page 8-25.

▼ Temporary Spare Tire

Inspect the temporary spare tire at least monthly to make sure it is 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.
Refer to Tires on page 9-12.

⚠ 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 6-37).*

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. The period in which the tire was manufactured (both week and year) is indicated by a 4-digit number.
Refer to Tire Labeling on page 8-25.

▼ 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:

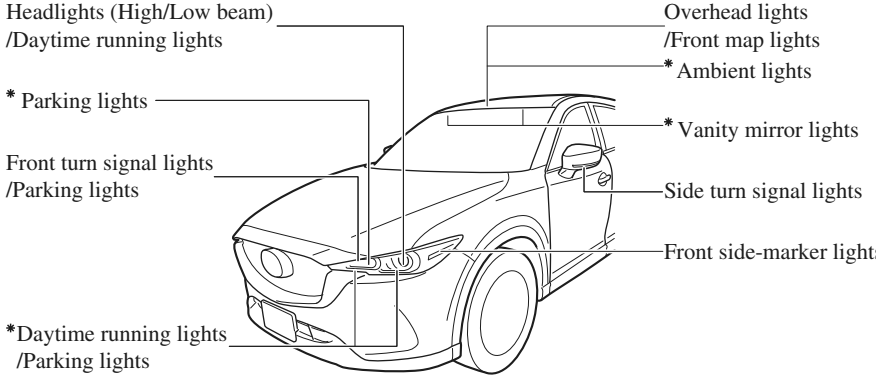
- *Tire fit*
- *Wheel and bearing life*
- *Ground clearance*
- *Snow-chain clearance*
- *Speedometer calibration*
- *Headlight aim*
- *Bumper height*
- *Tire Pressure Monitoring System*

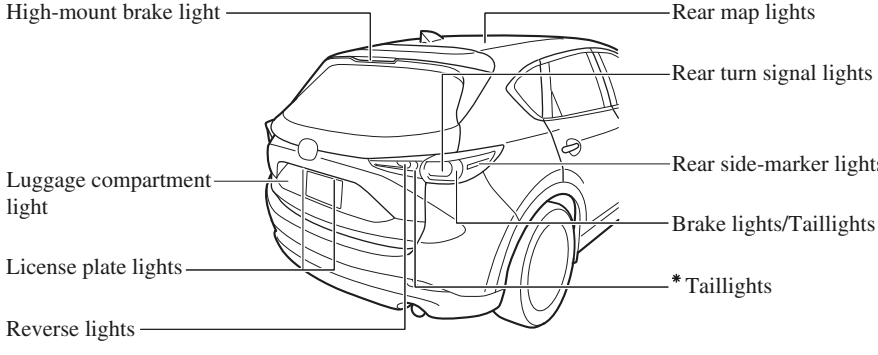
NOTE

- *When replacing a wheel, make sure the new one is the same as the original factory wheel in diameter, rim width, and offset (inset/outset).*
- *For details, contact an Authorized Mazda Dealer.*

Proper tire balancing provides the best riding comfort and helps reduce tread wear. Out-of-balance tires can cause vibration and uneven wear, such as cupping and flat spots.

Light Bulbs





*Some models.

CAUTION

When removing the lens or lamp unit using a flathead screwdriver, make sure that the flathead screwdriver does not contact the interior terminal. If the flathead screwdriver contacts the terminal, a short circuit may occur.

NOTE

- *To replace the bulb, contact an Authorized Mazda Dealer.*

· Use the protective cover and carton for the replacement bulb to dispose of the old bulb promptly and out of the reach of children.

▼ Replacing Exterior Light Bulbs

All the exterior light bulbs are LED type. The LED bulb cannot be replaced as a single unit because it is an integrated unit. The LED bulb has to be replaced with the unit. If a replacement is necessary, consult an Authorized Mazda Dealer.

▼ Replacing Interior Light Bulbs

The interior lights have either LEDs or normal bulbs.

LED type

- Overhead lights/Front map lights
- Rear map lights
- Vanity mirror lights*
- Luggage compartment light
- Ambient lights*

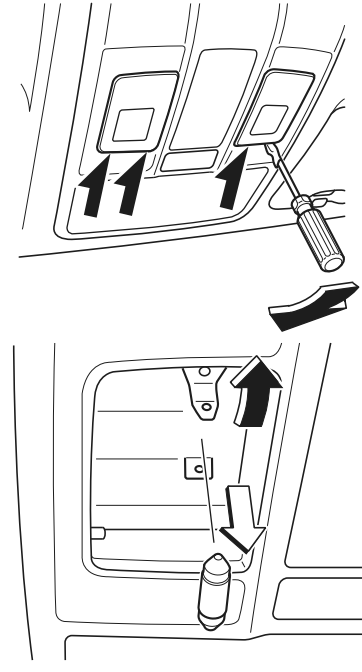
The LED bulb cannot be replaced as a single unit because it is an integrated unit. The LED bulb has to be replaced with the unit. If a replacement is necessary, consult an Authorized Mazda Dealer.

Bulb type

Overhead light/Front map lights, Rear map lights, Vanity mirror lights*

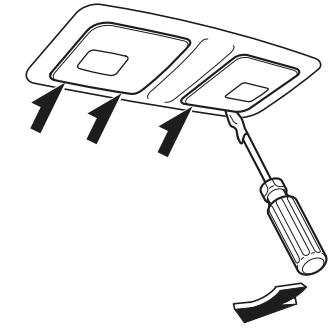
1. Wrap a flathead screwdriver with a soft cloth to prevent damage to the lens, and then remove the lens by carefully prying on the edge of the lens with a flathead screwdriver.
2. Disconnect the bulb by pulling it out.

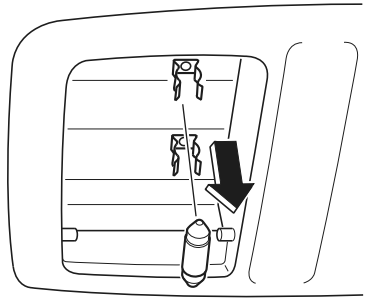
Overhead light/Front map lights



 *Some models.

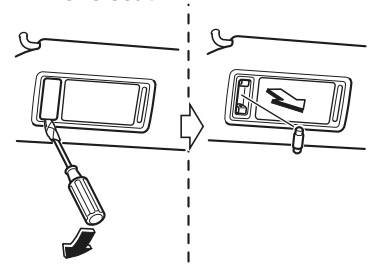
Rear map lights



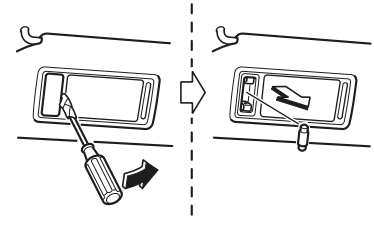


Vanity mirror lights*

Driver's seat



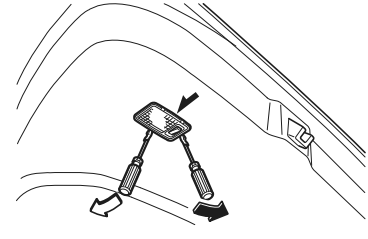
Passenger's seat



3. Install the new bulb in the reverse order of the removal procedure.

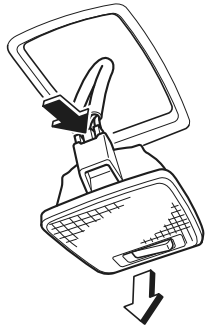
Luggage compartment light

1. Wrap a small flathead screwdriver with a soft cloth to prevent damage to the lens and remove the lens unit by carefully prying on the edge of the lens unit with the flathead screwdriver.



*Some models.

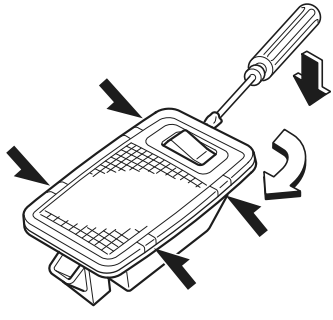
2. Disconnect the electrical connector from the bulb by pressing the tab on the connector with your finger and pulling the connector.



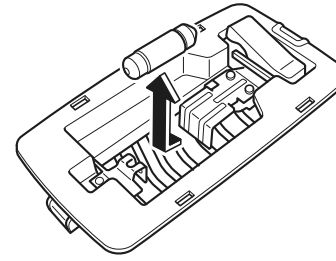
⚠ CAUTION

When replacing the bulb always disconnect the connector first. Otherwise, electric and electronic devices could be shorted.

3. Insert the flathead screwdriver into the gap between the lens and the lens unit, and then slide the screwdriver to detach the lens.



4. Disconnect the bulb by pulling it out.



5. Install the new bulb in the reverse order of the removal procedure.

Fuses

Your vehicle's electrical system is protected by fuses.

If any lights, accessories, or controls do not work, inspect the appropriate circuit protector. If a fuse has blown, the inside element will be melted.

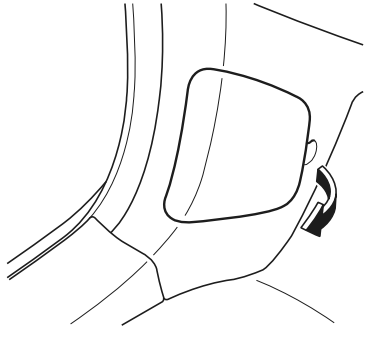
If the same fuse blows again, avoid using that system and consult an Authorized Mazda Dealer as soon as possible.

▼ Fuse Replacement

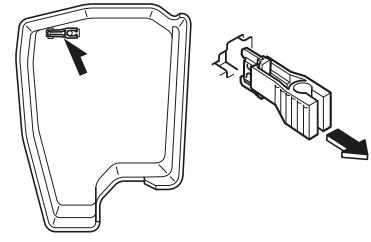
Replacing the fuses on the vehicle's left side

If the electrical system does not work, first inspect the fuses on the vehicle's left side.

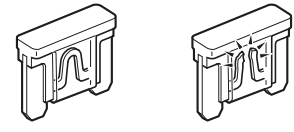
1. Make sure the ignition is switched off, and other switches are off.
2. Open the fuse panel cover.



3. Pull the fuse straight out with the fuse puller provided on the fuse block located in the engine compartment.



4. Inspect the fuse and replace it if it is 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. Consult 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 AUDIO or OUTLET circuit.

⚠ CAUTION

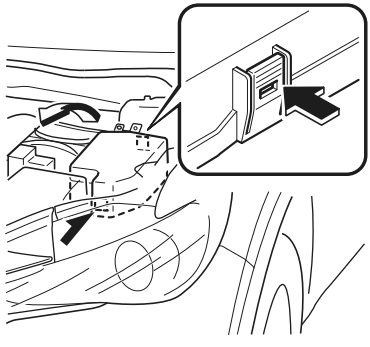
Always replace a fuse with a genuine Mazda fuse or equivalent of the same rating. Otherwise you may damage the electric system.

6. Reinstall the cover and make sure that it is securely installed.

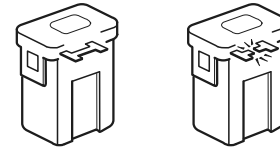
Replacing the fuses under the hood

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. Make sure the ignition is switched off, and other switches are off.
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

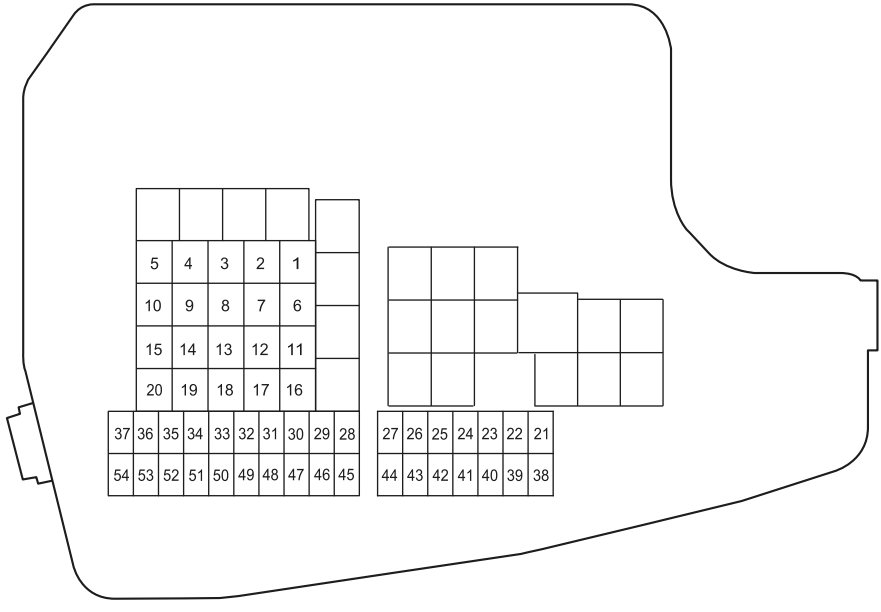
⚠ WARNING

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.

4. Reinstall the cover and make sure that it is securely installed.

▼ Fuse Panel Description

Fuse block (Engine compartment)



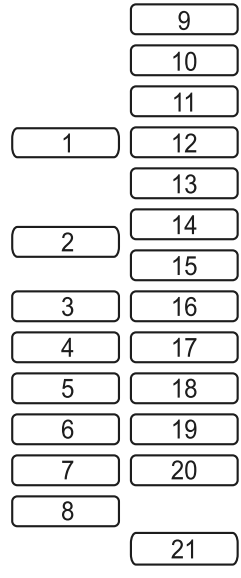
DESCRIPTION		FUSE RATING	PROTECTED COMPONENT
1	CABIN.+B	50 A	For protection of various circuits
2	IG2	30 A	For protection of various circuits
3	INJECTOR ENG.SUB	30 A	Engine control system*
4	SCR1 EVVT	20 A	Engine control system*
5	P.WINDOW1	30 A	Power windows*
6	R.HEATER	20 A	—
7	ADD FAN DE	40 A	Cooling fan*
8	WIPER.DEI	20 A	Windshield wiper de-icer*
9	DEFOG	30 A	Rear window defogger
10	DCDC DE	40 A	For protection of various circuits
11	EPB R	20 A	Electric parking brake (EPB) (RH)
12	EPB L	20 A	Electric parking brake (EPB) (LH)

DESCRIPTION		FUSE RATING	PROTECTED COMPONENT
13	AUDIO DCDC REG	30 A	Audio system*
14	FAN GE	30 A	Cooling fan*
15	ENG.MAIN	40 A	Engine control system
16	ABS/DSC M	50 A	ABS, Dynamic stability control system
17	FAN DE	40 A	Cooling fan*
18	WIPER	20 A	Front window wiper and washer
19	HEATER	40 A	Air conditioner
20	ADD FAN GE	30 A	Cooling fan*
21	ENGINE.IG1	7.5 A	Engine control system
22	C/U IG1	15 A	For protection of various circuits
23	AUDIO2	7.5 A	Audio system
24	METER2	7.5 A	Instrument cluster*
25	ENGINE3	15 A	Engine control system
26	ENGINE2	15 A	Engine control system
27	ENGINE1	15 A	Engine control system*
28	AT	15 A	Transaxle control system, Ignition switch
29	H/CLEAN	20 A	—
30	A/C	7.5 A	Air conditioner
31	AT PUMP	15 A	Transaxle control system*
32	HORN	15 A	Horn
33	R.WIPER	15 A	Rear window wiper
34	H/L HI	20 A	Headlight high beam
35	ST.HEATER	15 A	Heated steering wheel*
36	FOG	15 A	—
37	ENG.+B	7.5 A	Engine control system
38	H/L LOW L	15 A	Headlight low beam (LH)
39	ENGINE4	15 A	Engine control system*
40	INTERIOR1	15 A	For protection of various circuits*
41	METER1	10 A	Instrument cluster
42	SRS1	7.5 A	Air bag
43	AUDIO1	15 A	Audio system
44	BOSE	25 A	Bose Sound System-equipped model*
45	ABS/DSC S	30 A	ABS, Dynamic stability control system
46	FUEL PUMP	15 A	Fuel system*

*Some models.

DESCRIPTION		FUSE RATING	PROTECTED COMPONENT
47	FUEL WARM	25 A	Fuel warmer*
48	TAIL	15 A	Taillights, License plate lights, Parking lights
49	SCR2 FUEL PUMP2	25 A	—
50	HAZARD	25 A	Hazard warning flashers, Turn signal lights, Parking lights
51	H/L LOW R	15 A	Headlight low beam (RH)
52	OUTLET	25 A	Accessory sockets
53	STOP	10 A	Brake lights
54	ROOM	25 A	For protection of various circuit

Fuse block (Left side)



DESCRIPTION		FUSE RATING	PROTECTED COMPONENT
1	P.SEAT D	30 A	Power seat*
2	P.WINDOW3	30 A	Power windows
3	R.OUTLET3	15 A	Accessory sockets*
4	P.WINDOW2	25 A	Power windows
5	ESCL	15 A	Trailer hitch*

*Some models.

DESCRIPTION		FUSE RATING	PROTECTED COMPONENT
6	D.LOCK	25 A	Power door locks
7	SEAT WARM	20 A	Seat warmer*
8	SUNROOF	10 A	Moonroof*
9	F.OUTLET	15 A	Accessory sockets
10	MIRROR	7.5 A	Power control mirror
11	R.OUTLET1	15 A	—
12	SCR3	15 A	—
13	SCR4	15 A	—
14	R.OUTLET2	15 A	Accessory sockets
15	USB	7.5 A	USB power outlet*
16	PLG	20 A	Power liftgate*
17	M.DEF	7.5 A	Mirror defogger*
18	R.SEAT W	20 A	Rear seat warmer*
19	INTERIOR2	15 A	For protection of various circuit
20	AT IND	7.5 A	AT shift indicator
21	P.SEAT P	30 A	Power seat*

 *Some models.

Exterior Care

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 are not 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 1 to 2 hours. After removing the newspaper, rinse off the loosened debris with water.

Water Marks

Occurrence

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

Prevention

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

Paint Chipping

Occurrence

Paint chipping occurs when gravel 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.*

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 ignition is switched ON and the wiper lever is in the AUTO position, the windshield wipers may operate automatically in the following cases:*
  - *The area of the windshield above the rain sensor is touched or wiped with a cloth.*
  - *The windshield or the rain sensor area in the cabin is hit.*

  When the ignition is switched ON and the wiper lever is in the AUTO position, do not touch the windshield or the windshield wipers Otherwise, the windshield wipers will operate automatically which could catch your fingers or damage the windshield wipers. When removing ice or snow, or cleaning the windshield, always make sure the wiper lever is in the OFF position.

➢ *Do not spray water in the engine compartment. Otherwise, it could result in engine-starting problems or damage to electrical parts.*
➢ *When washing and waxing the vehicle, be careful not to apply excessive force to any single area of the vehicle roof. Otherwise, you could dent the vehicle.*

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.

⚠ 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.*

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 off brakes that have become wet by driving slowly, releasing the accelerator pedal and lightly applying the brakes several times until the 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.

When using an automatic car wash

- Retract the door mirrors.
- The automatic car wash brushes could reduce the paint luster or hasten paint deterioration.

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 (12 in) 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. Wax containing abrasives will remove paints 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.

▼ 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

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 result in damage to the protective coating and cause discoloration or paint deterioration.

▼ Underbody Maintenance

Road chemicals and salt used for ice and snow removal and solvents used for dust control may collect on the underbody. If not removed, they will speed up rusting and deterioration of such underbody parts as fuel lines, frame, floor pan, and exhaust system, even though these parts may be coated with anti-corrosive material.

Thoroughly flush the underbody and wheel housings with lukewarm or cold water at the end of each winter. Try also to do this every month.

Pay special attention to these areas because they easily hide mud and dirt. **It will do more harm than good to wet down the road grime without removing it.**

The lower edges of doors, rocker panels, and frame members have drain holes that should not be clogged. Water trapped there will cause rusting.

⚠ WARNING

Dry off brakes that have become wet by driving slowly, releasing the accelerator pedal and lightly applying the brakes several times until the 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.

▼ Aluminum Wheel Maintenance

A protective coating is provided over the aluminum wheels. Special care is needed to protect this coating.

⚠ CAUTION

Do not use any detergent other than mild detergent. Before using any detergent, verify the ingredients. Otherwise, the product could discolor or stain the aluminum wheels.

NOTE

- *Do not use a wire brush or any abrasive cleaner, polishing compound, or solvent on aluminum wheels. They may damage the coating.*
- *Always use a sponge or soft cloth to clean the wheels.*

Rinse the wheels thoroughly with lukewarm or cold water. Also, be sure to clean the wheels after driving on dusty or salted roads to help prevent corrosion.

- *Avoid washing your vehicle in an automatic car wash that uses high-speed or hard brushes.*
- ***(19-inch wheel vehicle)***
  If your aluminum wheels lose luster, apply wax which contains no polishing powder.

▼ 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.
- If plastic parts such as the bumpers become inadvertently exposed to chemical agents or fluids such as gasoline, oil, engine coolant, or battery fluid, it could cause discoloration, staining, or paint peeling. Wipe off any such chemical agents or fluids using a soft cloth immediately.
- High water temperature and high water pressure car washers are available depending on the type of high pressure car washer device. If the car washer nozzle is put too close to the vehicle or aimed at one area for an extended period of time, it could deform plastic parts or damage the paint.
- Do not use wax containing compounds (polish). Otherwise, it could result in paint damage.
- In addition, do not use an electrical or air tool to apply wax. Otherwise, the frictional heat generated could result in deformation of plastic parts or paint damage.

Interior Care

⚠ WARNING

Do not spray water into the vehicle cabin:
Spraying water into the vehicle cabin is dangerous as electrical devices such as the audio and switches could get wet resulting in a malfunction or vehicle fire.

NOTE

- *Do not wipe the interior using alcohol, chlorine bleach, or organic solvents such as thinner, benzene, and gasoline. Otherwise, it may cause discoloration or stains.*
- *Rubbing hard with a stiff brush or cloth may cause damage.*

If the vehicle interior becomes soiled by any of the following, wipe it off immediately using a soft cloth.
Leaving it uncleaned could cause discoloration, stains, cracks, or peeling of the coating, and it will make it hard to wipe off later.

- Beverage or fragrance
- Grease or oil
- Soiling

▼ Seat Belt Maintenance

1. Clean the soiled area by lightly dabbing it with a soft cloth soaked in a mild detergent (approx. 5%) diluted with water.
2. Wipe off the remaining detergent using a cloth soaked in clean water and wrung out well.
3. Before retracting seat belts which have been pulled out for cleaning, dry them off thoroughly and make sure there is no remaining moisture on them.

⚠ WARNING

If a seat belt appears frayed or has abrasions, have it replaced by an Authorized Mazda Dealer:
If a seat belt is used under such a condition, it cannot function at its full capacity which could result in serious injury or death.

Use a mild detergent to remove soiling from a seat belt:
If organic solvents are used for cleaning the seat belts or they become stained or bleached, there is the possibility of them becoming weakened and as a result, they may not function at their full capacity which could cause serious injury or death.

NOTE
Clean seat belts diligently if they get dirty. Leaving them uncleaned will make it difficult to clean them later, and it may affect the smooth retracting of the seat belt.

▼ Vinyl Upholstery Maintenance

1. Remove dust and sand using a vacuum cleaner.
2. Wipe the soiled area with a soft cloth soaked in a mild detergent (approx. 5 %) diluted with water.
3. Wipe off the remaining detergent using a cloth soaked in clean water and wrung out well.

▼ Upholstery Maintenance

1. Clean the soiled area by lightly dabbing it with a soft cloth soaked in a

mild detergent (approx. 5%) diluted with water.
2. Wipe off the remaining detergent using a cloth soaked in clean water and wrung out well.

▼ Leather Upholstery Maintenance*

1. Remove dust and sand using a vacuum cleaner.
2. Wipe off the soiled area with a soft cloth and a suitable, special cleaner or a soft cloth soaked in a mild detergent (about 5%) diluted with water.
3. Wipe off the remaining detergent using a cloth soaked in clean water and wrung out well.
4. Remove moisture with a dry, soft cloth and allow the leather to further dry in a well-ventilated, shaded area. If the leather gets wet such as from rain, remove the moisture and dry it as soon as possible.

NOTE

- *Because genuine leather is a natural material, its surface is not uniform and it may have natural scars, scratches, and wrinkles.*
- *To maintain the quality for as long as possible, periodical maintenance, about twice a year, is recommended.*
- *If the leather upholstery comes into contact with any of the following, clean it immediately.*
  Leaving it uncleaned could cause premature wear, mold, or stains.
  - *Sand or dirt*
  - *Grease or oil, such as hand cream*
  - *Alcohol, such as in cosmetic or hair dressing items*
- *If the leather upholstery gets wet, promptly remove moisture with a dry cloth. Remaining moisture on the surface may cause deterioration such as hardening and shrinkage.*
- *Exposure to direct sunlight for long periods may cause deterioration and shrinkage. When parking the car under direct sunlight for long periods, shade the interior using sunshades.*
- *Do not leave vinyl products on the leather upholstery for long periods. They may affect the leather quality and coloring. If the cabin temperature becomes hot, the vinyl may deteriorate and adhere to the genuine leather.*

▼ Plastic Part Maintenance

⚠ CAUTION

Do not use polishing agents.
Depending on the product ingredients, they could cause discoloration, stains, cracks or peeling of the coating.

▼ Instrument Panel Top (Soft pad) Maintenance

Extremely soft material is used for the soft pad surface. If the soft pad surface is rubbed harshly with a dry cloth, it could result in the surface being damaged and leaving white scratch marks.

1. Wipe the soiled area with a soft cloth soaked in a mild detergent (approx. 5%) diluted with water.
2. Wipe off the remaining detergent using a cloth soaked in clean water and wrung out well.

 *Some models.

▼ Panel Maintenance

If a panel becomes soiled, wipe it off with a soft cloth soaked in clean water and thoroughly wrung out.
If some areas require further cleaning, use the following procedure:

1. Wipe the soiled area with a soft cloth soaked in a mild detergent (approx. 5 %) diluted with water.
2. Wipe off the remaining detergent using a cloth soaked in clean water and wrung out well.

NOTE
Be particularly careful when cleaning shiny surface panels and metallic parts such as plating as they can be scratched easily.

▼ Active Driving Display Maintenance*

The dust-proof sheet has a coating. When cleaning, do not use a hard or rough-surface cloth, or cleaning detergent. In addition, if a chemical solvent gets on the active driving display, wipe it off immediately. The dust-proof sheet could be damaged and the surface coating could be scratched. Use a fine, soft cloth such as those used for cleaning eyeglasses.

NOTE
Use of compressed air when cleaning the dust-proof sheet is recommended.

▼ 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

- *Do not scrape or scratch the inside of the window glass. It could damage the thermal filaments and the antenna lines.*
- *When washing the inside of the window glass, use a soft cloth dampened in lukewarm water, gently wiping the thermal filaments and the antenna lines. Use of glass cleaning products could damage the thermal filaments and the antenna lines.*

▼ Cleaning the Floor Mats

Rubber floor mats should be cleaned with mild soap and water only.

⚠ WARNING

Do not use rubber cleaners, such as tire cleaner or tire shine, when cleaning rubber floor mats:
Cleaning the rubber floor mats with rubber cleaning products makes the floor mats slippery.
This may cause an accident when depressing the accelerator or brake pedal or when getting in or out of the vehicle.

After removing the floor mats for cleaning, always reinstall them securely (page 3-48).

MEMO

7 If Trouble Arises

Helpful information on what to do if a problem arises with the vehicle.

Parking in an Emergency..... 7-2
Parking in an Emergency.....7-2

Flat Tire.....7-3
Spare Tire and Tool Storage..... 7-3
Changing a Flat Tire..... 7-6

Battery Runs Out..... 7-13
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Emergency Starting.....7-16
Starting a Flooded Engine..... 7-16
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Emergency Towing..... 7-19
Towing Description..... 7-19
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Warning/Indicator Lights and Warning Sounds..... 7-22
If a Warning Light Turns On or Flashes..... 7-22
Message Indicated on Multi-information Display*..... 7-37
Warning Sound is Activated..... 7-39

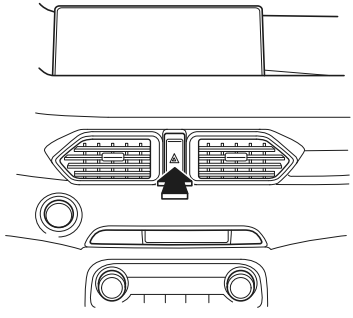
When Liftgate Cannot be Opened.....7-44
When Liftgate Cannot be Opened.....7-44

Active Driving Display Does Not Operate.....7-45
If the Active Driving Display Does Not Operate..... 7-45

*Some models.

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. The hazard warning indicator lights in the instrument cluster flash simultaneously.

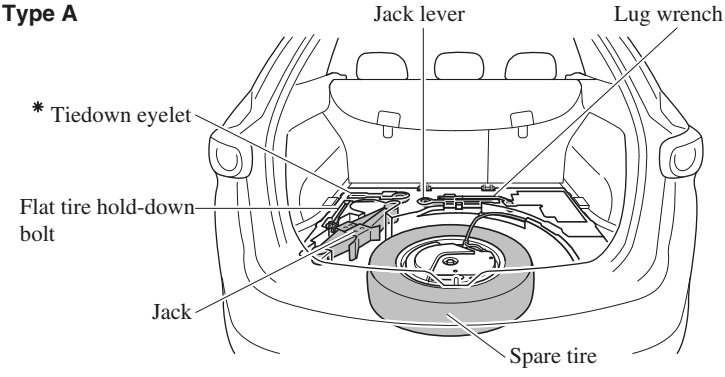
NOTE

- *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.*

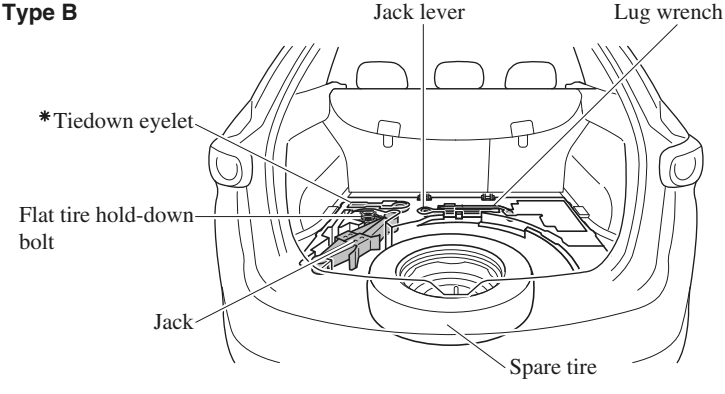
Spare Tire and Tool Storage

Spare tire and tools are stored in the locations illustrated in the diagram.

Type A



Type B

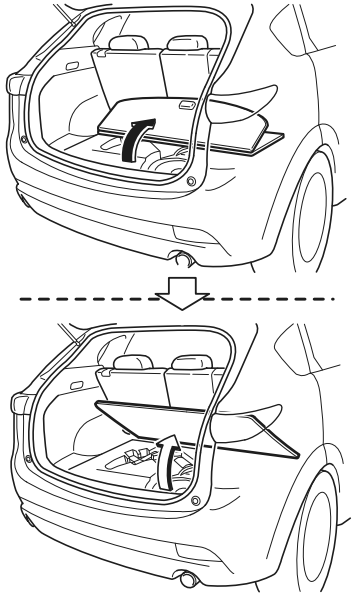


* Some models.

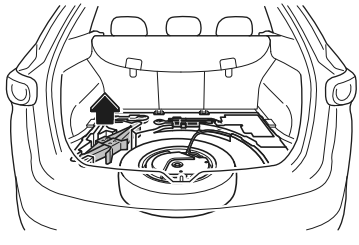
▼ Jack

To remove the jack

1. Open the luggage board, and lift it.



2. Remove the jack.



To secure the jack

Perform the removal procedure in reverse.

Maintenance

- Always keep the jack clean.
- Make sure the moving parts are kept free from dirt or rust.
- Make sure the screw thread is adequately lubricated.

▼ 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.

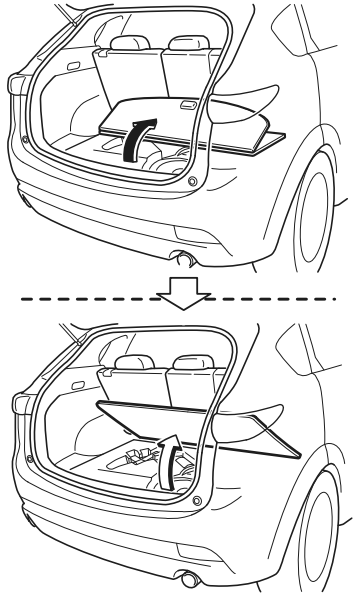
⚠ CAUTION

- *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).*

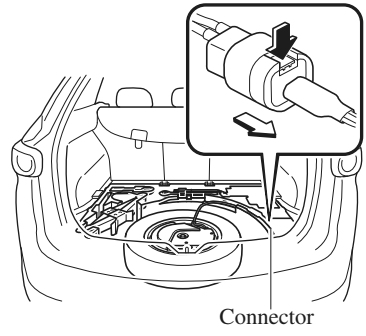
- *Avoid driving over obstacles. Also, do not drive through an automatic car wash. This tire's diameter is smaller than a conventional tire, so the ground clearance is reduced.*
- *Do not use a tire chain on this tire because it will not fit properly.*
- *Do not use your temporary spare tire on any other vehicle, it has been designed only for your Mazda.*
- *Use only one temporary spare tire on your vehicle at the same time.*

To remove the spare tire

1. Open the luggage board, and remove it.

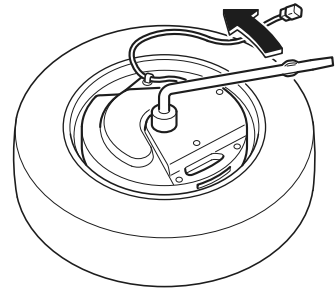


2. For vehicles equipped with a sub-woofer, uncouple the connector.

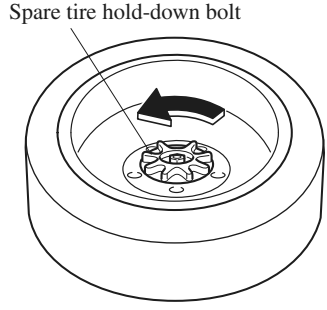


NOTE
Extra strength may be required to uncouple the connector. Be sure to squeeze the tab firmly.

3. For vehicles equipped with a sub-woofer, loosen the hold-down bolt and remove the woofer and spare tire.



For vehicles not equipped with a sub-woofer, turn the spare tire hold-down bolt counterclockwise and remove the spare tire.



To secure the spare tire

Store the spare tire in the reverse order of removal. After storing, verify that the spare tire is stored securely.

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

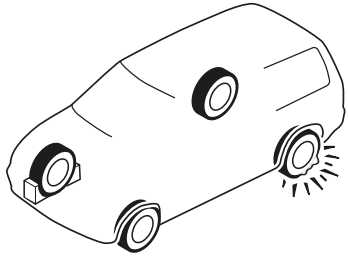
Be sure to follow the directions for changing a tire:
Changing a tire is dangerous if not done properly. The vehicle can slip off the jack and seriously injure someone.
No person should place any portion of their body under a vehicle that is supported by a jack.

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.

NOTE
Make sure the jack is well lubricated before using it.

1. Park on a hard, 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 passengers get out of the vehicle and away from the vehicle and traffic.
5. Remove any luggage, the jack, tools, 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.



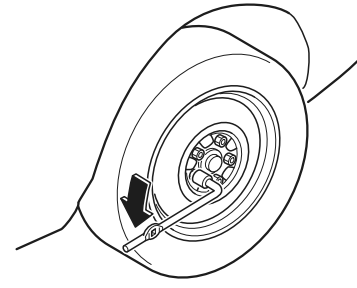
NOTE
When blocking a tire, use rocks or wood blocks of sufficient size if possible to hold the tire in place.

▼ Removing a Flat Tire

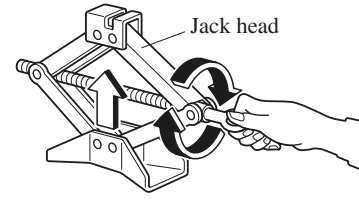
⚠ WARNING

When jacking-up a vehicle, always shift the selector lever to P position, apply the parking brake, and place wheel blocks in the position diagonally opposed to the jack:
Changing a flat tire without using wheel blocks is dangerous because the vehicle may move and fall off the jack even with the selector lever is in P position, which could result in an accident.

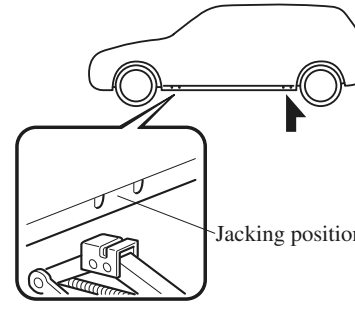
1. Loosen the lug nuts by turning them counterclockwise one turn each, but do not remove any lug nuts until the tire has been raised off the ground.



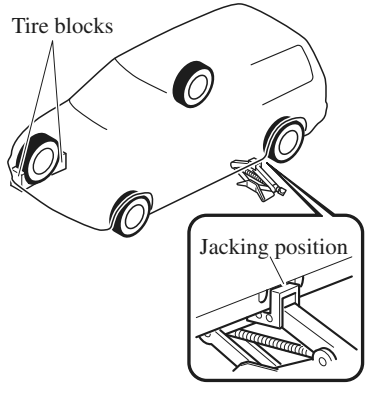
2. Place the jack on the ground.
3. Turn the jack screw in the direction shown in the figure and adjust the jack head so that it is close to the jack-up position.



4. Place the jack under the jack-up position closest to the tire being changed with the jack head squarely under the jack-up point.



5. Continue raising the jack head gradually by rotating the screw with your hand until the jack head is inserted into the jack-up position.



⚠ 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 front and rear jacking positions recommended in this manual.

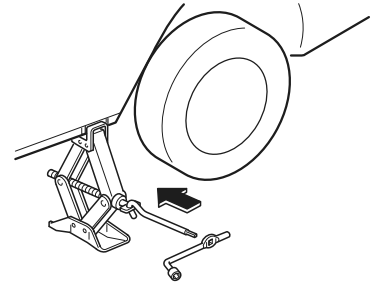
Do not jack up the vehicle in a position other than the designated jack-up position or place any objects on or under the jack:
Jacking up the vehicle in a position other than the designated jack-up position or placing objects on or under the jack is dangerous as it could deform the vehicle body or the vehicle could fall off the jack resulting in an accident.

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.

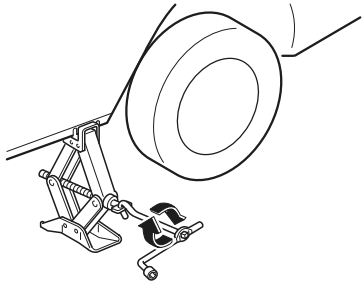
Never place objects under the jack:
Jacking the vehicle with an object under the jack is dangerous. The jack could slip and someone could be seriously injured by the jack or the falling vehicle.

NOTE
When raising the jack head into the jacking position and aligning the groove in the jack head with the rail under the vehicle body, the top of the jack head contacts the vehicle's underbody without the rail contacting the bottom of the groove.

6. Insert the jack lever and attach the lug wrench to tire jack.



7. Turn the jack handle 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.



⚠ WARNING

Do not jack up the vehicle higher than is necessary:
Jacking up the vehicle higher than is necessary is dangerous as it could destabilize the vehicle resulting in an accident.

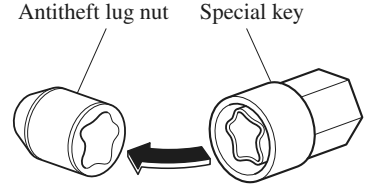
Do not start the engine or shake the vehicle while it is jacked up:
Starting the engine or shaking the vehicle while it is jacked up is dangerous as it could cause the vehicle to fall off the jack resulting in an accident.

Never go under the vehicle while it is jacked up:
Going under the vehicle while it is jacked up is dangerous as it could result in death or serious injury if the vehicle were to fall off the jack.

8. Remove the lug nuts by turning them counterclockwise; then remove the wheel and center cap.

▼ Locking Lug Nuts

If your Mazda is equipped with the optional antitheft wheel lug nuts, a special key must be used to unlock the locking lug nut for each wheel. The key is stored in the glove compartment, center console storage, storage box, or trunk. Register the key and lug nuts with the lock manufacturer by filling out the registration card and mailing it in using the accompanying envelope. If the key is lost, consult an Authorized Mazda Dealer or use the lock manufacturer's order form to order a new key.
Antitheft wheel lug nuts cannot be installed on a steel wheel spare tire. When installing a temporary spare tire, use one of the original lug nuts in place of the locking lug nut. The original lug nuts are stored inside your Mazda.



To remove an antitheft lug nut

1. Obtain the special key for the antitheft lug nut.
2. Place the special key on top of the antitheft lug 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. Do not use a power impact wrench.

3. Place the lug wrench on top of the key and apply pressure. Turn the wrench counterclockwise.

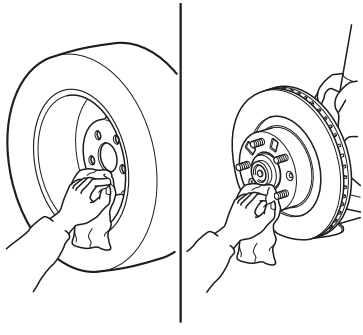
To install the antitheft lug nut

1. Place the special 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. Do not use a power impact wrench.
2. Place the lug wrench on top of the special key, apply pressure, and turn it clockwise.

Nut tightening torque	
N·m (kgf·m, ft·lbf)	108—147 (12—14, 80—108)

▼ 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.

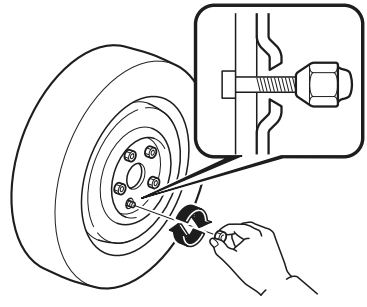


⚠ WARNING

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.



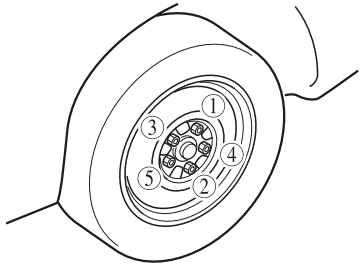
⚠ WARNING

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 lug wrench counterclockwise and lower the vehicle.

5. Use the lug wrench to tighten the nuts in the order shown.



If you are unsure of how tight the nuts should be, have them inspected at an Authorized Mazda Dealer.

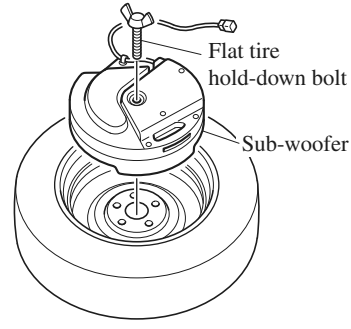
Nut tightening torque	
N·m (kgf·m, ft·lbf)	108—147 (12—14, 80—108)

⚠ WARNING

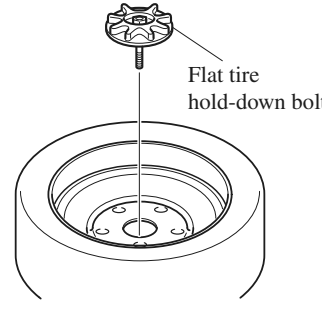
Always securely and correctly tighten the lug nuts:
Improperly or loosely tightened lug nuts are dangerous. The wheel could wobble or come off. This could result in loss of vehicle control and cause a serious accident.

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.

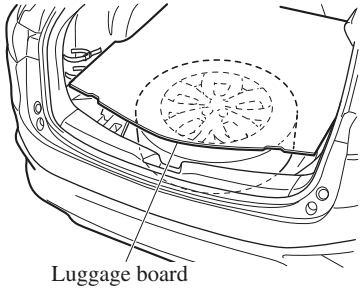
6. Remove the center cap by tapping it from the backside of the wheel using the lug wrench.
7. Store the damaged tire, using the flat tire hold-down bolt to hold it in place.
(With sub-woofer)



(Without sub-woofer)



8. Place the luggage board on the damaged tire.



9. Remove the tire blocks and store the tools and jack.
10. Check the inflation pressure. Refer to Tires on page 9-12.
11. 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
To prevent the jack and tool from rattling, store them properly.

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



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 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 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 battery cells.

Battery Runs Out

Keep all flames and sparks away from battery cells because hydrogen gas is produced from battery cells while charging the battery or adding battery fluid:
Flames and sparks near 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 battery cells.

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.

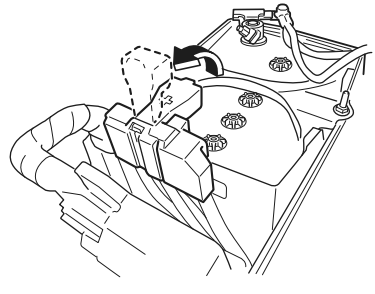
Connect the negative cable to a good ground point away from the battery:
Connecting the end of the second jumper cable to the negative (−) terminal of the discharged battery is dangerous.
A spark could cause the gas around the battery to explode and injure someone.

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.

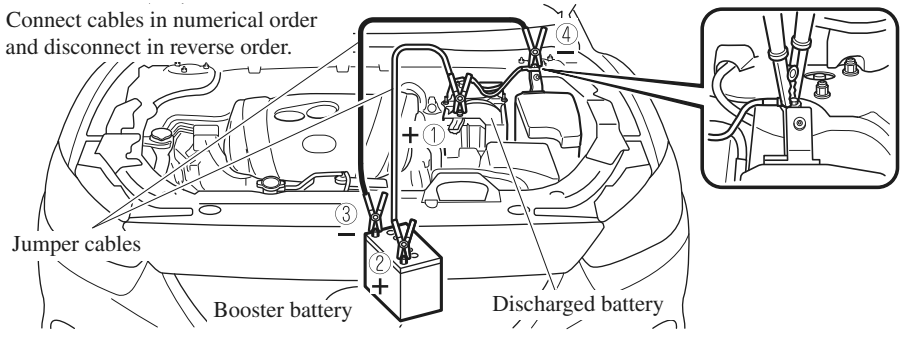
⚠ CAUTION

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).

1. Move the booster vehicle so that its battery is as close as possible to your vehicle's battery.
2. Make sure that the power such as for the headlights and air conditioner is turned off.
3. Remove the battery cover.



4. Turn off the booster vehicle's engine and connect the jumper cables in the following order.
   Make sure that the jumper cables are securely connected so that they do not disconnect due to engine vibrations.
   1st lead
   ①Positive (+) terminal on the discharged battery
   ②Positive (+) terminal on booster vehicle's battery
   2nd lead
   ③Negative (-) terminal on booster vehicle's battery
   ④Location shown in the figure (do not connect to the negative (-) terminal of the battery)



5. Start the booster vehicle's engine and rev the engine.
6. Start the engine of your vehicle. Run the engines for about 3 minutes to temporarily charge the battery of your vehicle.
7. Disconnect the jumper cables in the reverse order of their connection.
8. Install the battery cover.
9. Have your vehicle inspected by an Authorized Mazda Dealer as soon as possible.

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 5 seconds on the first try, wait 10 seconds and try again.
2. Make sure the parking brake is on.
3. Depress the accelerator all the way and hold it there.
4. Depress the brake pedal, then press the push button start. If the engine starts, release the accelerator immediately because the engine will suddenly rev up.
5. If the engine fails to start, crank it without depressing the accelerator.

If the engine still does not start using the previous procedure, have your vehicle inspected by an Authorized Mazda Dealer.

Push-Starting

Do not push-start your Mazda.

⚠ WARNING

Never tow a vehicle to start it:
Towing a vehicle to start it is dangerous. The vehicle being towed could surge forward when its engine starts, causing the 2 vehicles to collide. The occupants could be injured.

NOTE
You cannot start a vehicle with an automatic transaxle by pushing it.

Overheating

If the temperature gauge indicates overheating or the high engine coolant temperature warning light turns on, the vehicle loses power, or you hear a loud knocking or pinging noise, the engine is probably too hot.

⚠ WARNING



Pull over to a safe location, then switch the ignition off 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.

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 or the high engine coolant temperature warning light turns on:

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 the engine compartment.

   If steam is coming from the engine compartment:
   Do not go near the front of the vehicle.
   Stop the engine.
   Wait until the steam dissipates, then open the hood and start the engine.

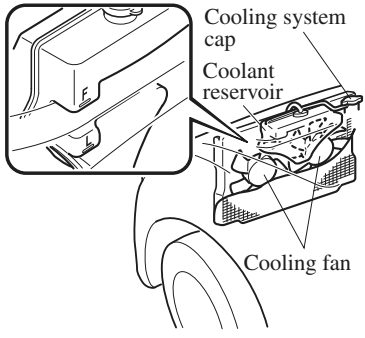
   If neither coolant nor steam is escaping:
   Open the hood and idle the engine until it cools.

   ⚠ CAUTION

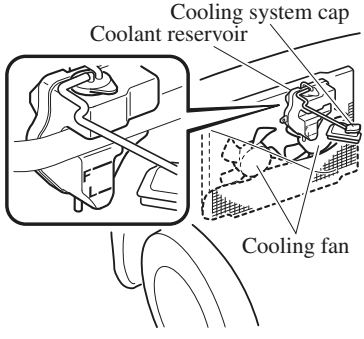
   If the cooling fan does not operate while the engine is running, the engine temperature will increase. Stop the engine and call an Authorized Mazda Dealer.
6. Make sure the cooling fan is operating, then turn off the engine after the temperature has decreased.
7. When cool, check the coolant level.
   If it is low, look for coolant leaks from the radiator and hoses.

If you find a leak or other damage, or if coolant is still leaking:
Stop the engine and call an Authorized Mazda Dealer.

SKYACTIV-G 2.5



SKYACTIV-G 2.5T



If you find no problems, the engine is cool, and no leaks are obvious:
Carefully add coolant as required (page 6-22).

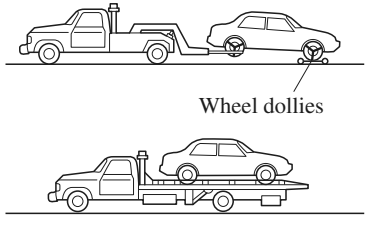
⚠ CAUTION

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.

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 an 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.



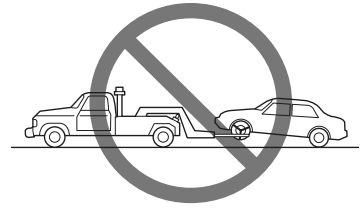
A towed FWD vehicle should have its drive wheels (front wheels) off the ground. If excessive damage or other conditions prevent this, use wheel dollies.

When towing a FWD vehicle with the rear wheels on the ground, release the parking brake.
Refer to Electric Parking Brake (EPB) on page 4-100.

A towed AWD vehicle must have all its wheels off the ground.

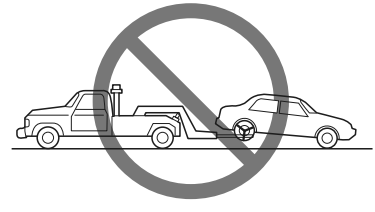
⚠ WARNING

Always tow an AWD vehicle with all four wheels off the ground:
Towing an 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 flatbed truck.

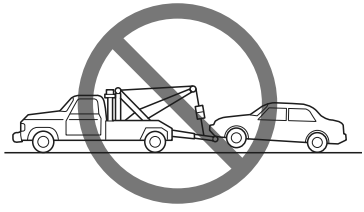


⚠ CAUTION

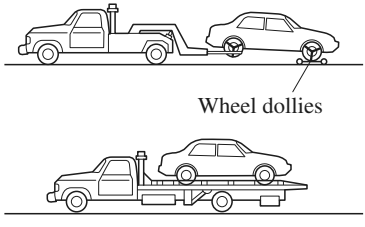
- *Do not tow the vehicle pointed backward with driving wheels on the ground. This may cause internal damage to the transaxle.*



➢ *Do not tow with sling-type equipment. This could damage your vehicle. Use wheel-lift or flatbed equipment.*



➢ *If the parking brake cannot be released when towing the vehicle, transport the vehicle with all front and rear wheels raised off the ground as shown in the figure. If the vehicle is towed without raising the wheels off the ground, the brake system could be damaged.*



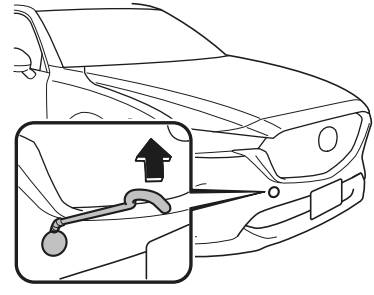
Tiedown Hooks*

⚠ CAUTION

Do not use the front and rear tiedown eyelets for towing the vehicle.
They 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.

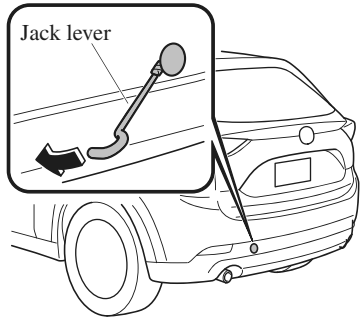
▼ Tiedown Hooks

1. Remove the tiedown eyelet and the lug wrench from the luggage compartment (page 7-3).
2. Wrap a flathead screwdriver or similar tool with a soft cloth to prevent damage to a painted bumper, and open the cap located on the front or rear bumper.
   Front



 *Some models.

Rear



⚠ CAUTION

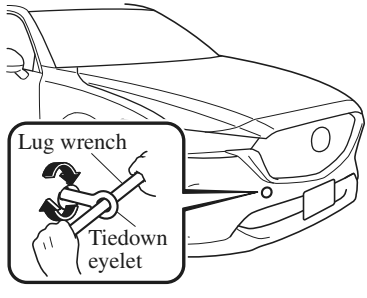
Do not use excessive force as it may damage the cap or scratch the painted bumper surface.

NOTE

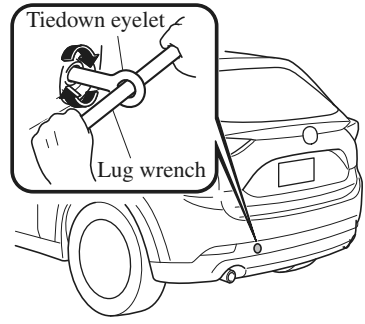
Remove the cap completely and store it so as not to lose it.

3. Securely install the tiedown eyelet using the lug wrench.

Front



Rear



4. Hook the tying rope to the tiedown eyelet.

⚠ CAUTION

If the tiedown eyelet is not securely tightened, it may loosen or disengage from the bumper when tying the vehicle. Make sure that the tiedown eyelet is securely tightened to the bumper.

If a Warning Light Turns On or Flashes

If any warning light turns on/flashes, take appropriate action for each light. There is no problem if the light turns off, however if the light does not turn off or turns on/flashes again, consult an Authorized Mazda Dealer.
The details for some warnings can be viewed on the center display or multi-information display (Type A/Type B) in the instrument cluster.

Center display

1. Select “Information” on the home screen.
2. Select “Vehicle Status Monitor”.
3. Select the applicable warning to view the warning details.

NOTE
You can also display the currently occurring warning by sliding the commander knob to the left while on the home screen of the center display.

Multi-information display (Type A/Type B)

1. Press the INFO switch on the steering switch to display the warning indication screen.
   Refer to Multi-information Display (Type A) on page 4-20.
   Refer to Multi-information Display (Type B) on page 4-37.

▼ Stop Vehicle in Safe Place Immediately

If any of the following warning lights turns on, the system may have a malfunction. Stop the vehicle in a safe place immediately and contact an Authorized Mazda Dealer.

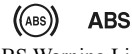
Signal	Warning
BRAKE Brake System Warning Indication/Warning Light	This warning has the following functions: **Parking brake warning/Warning light inspection** The light illuminates when the parking brake is applied with the ignition switched to START or ON. It turns off when the parking brake is released. **When the light turns on** If the brake system warning light remains turned on even though the parking brake is released, the brake fluid may be low or there could be a problem with the brake system. Park the vehicle in a safe place immediately and contact an Authorized Mazda Dealer. **When the light is flashing** The light flashes if the Electric Parking Brake (EPB) has a malfunction. If the light remains flashing even if the Electric Parking Brake (EPB) switch is operated, consult an Authorized Mazda Dealer as soon as possible. **⚠ 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.* **⚠ CAUTION** *In addition, the effectiveness of the braking may diminish so you may need to depress the brake pedal more strongly than normal to stop the vehicle.*
BRAKE ABS 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 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.*

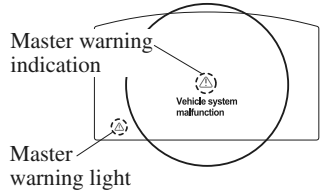
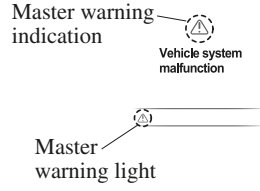
Signal	Warning
 Charging System Warning Indication/Warning Light	If the warning light illuminates while driving, it indicates a malfunction of the alternator or of the charging system. Drive to the side of the road and park off the right-of-way. Consult an Authorized Mazda Dealer. **⚠ CAUTION** *Do not continue driving when the charging system warning light is illuminated because the engine could stop unexpectedly.*
 Engine Oil Warning Light	The light turns on when the engine oil pressure decreases. **⚠ CAUTION** *Do not drive the vehicle with the engine oil warning light turned on. Driving the vehicle with decreased engine oil pressure may cause engine damage.* If the engine oil warning light turns on while driving, stop the vehicle in a safe place and stop the engine. After that, contact an Authorized Mazda Dealer.
 (Red) High Engine Coolant Temperature Warning Indication/Warning Light	The light flashes when the engine coolant temperature is extremely high, and illuminates when the engine coolant temperature increases further. **Handling Procedure** **Flashing light** Drive slowly to reduce engine load until you can find a safe place to stop the vehicle and wait for the engine to cool down. **Illuminated light** This indicates the possibility of overheating. Park the vehicle in a safe place immediately and stop the engine. Refer to Overheating on page 7-17. **⚠ CAUTION** *Do not drive the vehicle with the high engine coolant temperature warning light illuminated. Otherwise, it could result in damage to the engine.*

Signal	Warning
 Power Steering Malfunction Indication*	The message is displayed if the electric power steering has a malfunction. If the message is displayed, stop the vehicle in a safe place and do not operate the steering wheel. There is no problem if the message in the display turns off after a while. Contact an Authorized Mazda Dealer if the message is displayed continuously. ***NOTE*** ・ *If the message is displayed, the power steering will not operate normally. In this case, the steering wheel can still be operated, however, the operation may feel heavy compared to normal, or the steering wheel could vibrate when turning.* ・ *Repeatedly jerking the steering wheel left and right while the vehicle is stopped or moving extremely slowly will cause the power steering system to go into protective mode which will make the steering feel heavy, but this does not indicate a problem. If this occurs, park the vehicle safely and wait several minutes for the system to return to normal.*
 Power Steering Malfunction Indicator Light*	The light illuminates/flashes if the electric power steering has a malfunction. If the light illuminates/flashes, stop the vehicle in a safe place and do not operate the steering wheel. There is no problem if the light turns off after a while. Contact an Authorized Mazda Dealer if the light illuminates/flashes continuously. ***NOTE*** ・ *If the indicator light illuminates/flashes, the power steering will not operate normally. If this happens, the steering wheel can still be operated, however, the operation may feel heavy compared to normal, or the steering wheel could vibrate when turning.* ・ *Repeatedly jerking the steering wheel left and right while the vehicle is stopped or moving extremely slowly will cause the power steering system to go into protective mode which will make the steering feel heavy, but this does not indicate a problem. If this occurs, park the vehicle safely and wait several minutes for the system to return to normal.*

▼ Contact Authorized Mazda Dealer and Have Vehicle Inspected

If any of the following warning lights or the indicator light turns on/flashes, the system may have a malfunction. Contact an Authorized Mazda Dealer to have your vehicle inspected.

Signal	Warning
 ABS Warning Light	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.*

Signal	Warning
Master Warning Indication/Warning Light	**With Multi-information Display (Type A/Type B)** Displays when notification of the system malfunctions is required. Check the message indicated in the display and consult an Authorized Mazda Dealer. **Multi-information Display** **Type A**  **Type B**  Indication in display and master warning light in instrument cluster are illuminated at same time. This indicates a malfunction with the vehicle system. Check the message indicated in the display and consult an Authorized Mazda Dealer. For details, refer to the explanations for the warning/indicator lights, in the warning/indicator lights section, which match the symbol in the upper part of the display. If a message is not indicated in the display, operate the INFO switch to display the “Warning” screen. Refer to Message Indicated in Multi-information Display (Type A) on page 4-20. Refer to Message Indicated in Multi-information Display (Type B) on page 4-37. **With Multi-information Display (Type C)** The light illuminates continuously if any one of the following occurs. Consult an Authorized Mazda Dealer. ・ There is a malfunction in the battery management system. ・ There is a malfunction in the brake switch.
Electric Parking Brake (EPB) Warning Indication/ Warning Light	The warning light illuminates when the system has a malfunction. Have your vehicle inspected at an Authorized Mazda Dealer.

Signal	Warning
 (Red) Brake Pedal Operation Demand Warning Light*	**When only flashing** Flashes if there is the possibility of the vehicle not being held in the stopped position by the AUTOHOLD function, such as on steep slopes. Depress and hold your foot on the brake pedal. **When flashing and beep sound is activated at the same time** The warning light flashes and the beep sound is activated for about 5 seconds if there is a problem with the system. If the warning light flashes and the warning sound is activated, immediately depress the brake pedal and stop using the AUTOHOLD function then contact an Authorized Mazda Dealer. **⚠ WARNING** ***Immediately depress the brake pedal if the warning light flashes and the beep sound is activated while using the AUTOHOLD function:*** *Because the AUTOHOLD function is canceled forcibly, the vehicle may move unexpectedly and result in an accident.*
 Check Engine Light	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 engine's electrical system has a problem. ・ The emission control system has a problem. ・ The fuel tank level being very low or approaching empty. ・ The fuel-filler cap is missing or not tightened securely. If the check engine light remains on, or it flashes continuously , do not drive at high speeds and consult an Authorized Mazda Dealer as soon as possible. **⚠ WARNING** ***If the check engine light turns on, do not disconnect the battery cables.*** *If the battery cables are disconnected and then reconnected, the engine could be damaged and catch on fire.*
i-stop (Amber) i-stop Warning Light*	The light turns on/flashes continuously if the system has a problem. Have the vehicle inspected by an Authorized Mazda Dealer.

Warning/Indicator Lights and Warning Sounds

Signal	Warning
AT Automatic Transaxle Warning Indication/Warning Light	The indication/light illuminates when the transaxle has a problem. **⚠ CAUTION** *If the automatic transaxle warning indication/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.*
4WD AWD Warning Indication*	**"4WD System Malfunction" is displayed** The indication is displayed under the following conditions. The system may have a malfunction. Have the vehicle checked at an Authorized Mazda Dealer. • When there is a malfunction in the AWD system. • When there is a large difference between the tire size of the front and rear wheels. **"4WD System High Load" is displayed** The indication is displayed under the following conditions. Park the vehicle in a safe place and check that the warning indication light turns off, and then drive the vehicle. Contact an Authorized Mazda Dealer if the indication is continuously displayed. • When the differential oil temperature is excessively high. • When there is a large difference between the front and rear wheel rotation, such as when trying to remove the vehicle from mud.
 (Turns on) TCS/DSC Indicator Light	If the light stays on, the TCS, DSC or the brake assist system may have a malfunction and they may not operate correctly. Take your vehicle to an Authorized Mazda Dealer.
 Air Bag/Seat Belt Pretensioner System Warning Light	A system malfunction is indicated if the warning light constantly flashes, constantly illuminates or does not illuminate at all when the ignition is switched ON. If any of these occur, consult an Authorized Mazda Dealer as soon as possible. The system may not operate 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.*

 *Some models.

Signal	Warning
 (Flashing) Tire Pressure Monitoring System Warning Light	If the tire pressure monitoring system has a malfunction, the tire pressure warning light flashes. Have your vehicle checked by an Authorized Mazda Dealer as soon as possible. **⚠ 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.*
 (Amber) KEY Warning Indication*	**“Keyless System Malfunction” is displayed** This message is displayed if the advanced keyless entry & push button start system has a problem. Contact an Authorized Mazda Dealer. **⚠ CAUTION** *If the message is indicated, or the push button start indicator light (amber) flashes, the engine may not start. If the engine cannot be started, try starting it using the emergency operation for starting the engine, and have the vehicle inspected at an Authorized Mazda Dealer as soon as possible.* *Refer to Emergency Operation for Starting the Engine on page 4-9.* **“Ignition is On” is displayed** This message is displayed when the driver's door is opened without switching the ignition off. **“Key Not Detected” is displayed** This message is displayed when any of the following operations is performed with the key out of the operational range or placed in areas inside the cabin where it is difficult for the key to be detected. ・ The push button start is pressed with the ignition switched off ・ The ignition is switched on ・ All doors are closed without switching the ignition off

Warning/Indicator Lights and Warning Sounds

Signal	Warning
 (Red) (Turns on) KEY Warning Light*	If any malfunction occurs in the keyless entry system, it illuminates continuously. **⚠ CAUTION** *If the key warning indicator light illuminates or the push button start indicator light (amber) flashes, the engine may not start. If the engine cannot be started, try starting it using the emergency operation for starting the engine, and have the vehicle inspected at an Authorized Mazda Dealer as soon as possible.* *Refer to Emergency Operation for Starting the Engine on page 4-9.*
 (Amber) High Beam Control System (HBC) Warning Indication/ Warning Light*	The light remains turned on if there is a problem with the system. Have your vehicle inspected at an Authorized Mazda Dealer. ***NOTE*** *If the Forward Sensing Camera (FSC) field of view is impaired during bad weather conditions (such as rain, fog, and snow) and when the windshield is dirty, the warning indication/warning light for the High Beam Control System (HBC) may display/turn on. However, this does not indicate a problem.*
 Blind Spot Monitoring (BSM) Warning Indication*	The Warning indication turns on if there is any malfunction in the Blind Spot Monitoring (BSM). Have your vehicle inspected by 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. However, it does not indicate a malfunction.*
 Blind Spot Monitoring (BSM) OFF Indicator Light*	A problem in the system may be indicated under the following conditions. Have your vehicle inspected at an Authorized Mazda Dealer. ・The light does not turn on when the ignition is switched ON. ・The light remains on even when the Blind Spot Monitoring (BSM) system can be operated. ・It turns on while driving the vehicle. ***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 Blind Spot Monitoring (BSM) OFF indicator light in the instrument cluster illuminates). However, it does not indicate a malfunction.*
 (Amber) Driver Attention Alert (DAA) Warning Indication*	The message is displayed when the system has a malfunction. Have your vehicle inspected at an Authorized Mazda Dealer.

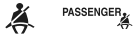
 *Some models.

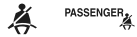
Signal	Warning
 (Amber) Mazda Radar Cruise Control with Stop & Go function (MRCC with Stop & Go function) Warning Indication*	The message is displayed when the system has a malfunction. Have your vehicle inspected at an Authorized Mazda Dealer.
 Cruising & Traffic Support (CTS) Warning Indication*	The message is displayed when the system has a malfunction. Have your vehicle inspected at an Authorized Mazda Dealer.
 Lane-keep Assist System (LAS) & Lane Departure Warning System (LDWS) Warning Indication*	The message is displayed when the system has a malfunction. Have your vehicle inspected at an Authorized Mazda Dealer. The system does not operate when the warning message is displayed. **⚠ CAUTION** ➢ *Always use tires for all wheels that are of the specified size, and the same manufacture, brand, and tread pattern. In addition, do not use tires with significantly different wear patterns on the same vehicle. If such improper tires are used, the system may not operate normally.* ➢ *When an emergency spare tire is used, the system may not operate normally.*
 LED Headlight Warning Light	This light illuminates if there is a malfunction in the LED headlight. Have your vehicle inspected by an Authorized Mazda Dealer.

▼ Taking Action

Take the appropriate action and verify that the warning light turns off.

Signal	Warning	Action to be taken
 (Amber) Smart Brake Support/ Smart City Brake Support (SBS/SCBS) Warning Indication/Warning Light*	The light turns on if the windshield or the radar sensor are dirty, or there is a malfunction in the system.	Verify the reason why the warning light is illuminated on the center display. If the reason why the warning light is illuminated is due to a dirty windshield, clean the windshield. If the warning light is illuminated because of a dirty radar sensor, clean the front emblem. For any other reasons, have the vehicle inspected at an Authorized Mazda Dealer.

Signal	Warning	Action to be taken
 Low Fuel Warning Indication/Warning Light	The light turns on when the remaining fuel is about 9.0 L (2.3 US gal, 1.9 Imp gal). ***NOTE*** *The light illumination timing may vary because fuel inside the fuel tank moves around according to the driving conditions and the vehicle posture.*	Add fuel.
 Check Fuel Cap Warning Indication/Warning Light	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 Refueling on page 3-29.
 Engine Oil Level Warning Light	This warning light indicates that the engine oil level is around the MIN mark (page 6-21).	Add 1 L (0.3 US gal, 0.2 Imp gal) of engine oil (page 6-20).
 Seat Belt Warning Light (Front seat)	**Except Mexico** The seat belt warning light turns on if the driver or front passenger's seat is occupied and the seat belt is not fastened with the ignition switched ON. If the driver or front passenger's seat belt is unfastened (only when the front passenger's seat is occupied) and if the vehicle is driven at about 20 km/h (12 mph) or faster, or about 10 km/h (6 mph) or faster for a continuous 30 seconds, with the seat belt unfastened, the warning light flashes for a certain period. After a short time, the warning light stops flashing, but remains illuminated. ***NOTE*** • *The warning light flashes for about 6 seconds if the driver's seat belt is not fastened when the ignition is switched ON.* • *To allow the front passenger occupant classification sensor to function properly, do not place and sit on an additional seat cushion on the front passenger's seat. The sensor may not function properly because the additional seat cushion could cause sensor interference.* • *If a small child is seated on the front passenger's seat, the warning light may not operate.*	Fasten the seat belts.

Signal	Warning	Action to be taken
 Seat Belt Warning Light (Front seat)	**Mexico** The seat belt warning light turns on if the driver or front passenger's seat is occupied and the seat belt is not fastened with the ignition switched ON. If the driver or front passenger's seat belt is unfastened (only when the front passenger's seat is occupied) and the vehicle is driven at a speed faster than about 20 km/h (12 mph), the warning light flashes. After a short time, the warning light stops flashing, but remains illuminated. If a seat belt remains unfastened, the warning light flashes again for a given period of time. ***NOTE*** ・ *Placing heavy items on the front passenger's seat may cause the front passenger's seat belt warning function to operate depending on the weight of the item.* ・ *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's seat. The sensor may not function properly because the additional seat cushion could cause sensor interference.* ・ *If a small child is seated on the front passenger's seat, the warning light may not operate.*	Fasten the seat belts.
 (Red) Seat Belt Warning Light (Rear seat)	If the rear seat belts are not fastened while the ignition is switched ON , the driver and the passenger are alerted by the warning light. The warning light operates even if there is no passenger on the rear seat. ***NOTE*** *If a rear seat belt is not fastened by a certain period of time after the engine has been started, the warning light turns off.*	Fasten the seat belts.
 Low Washer Fluid Level Warning Indication/ Warning Light*	This warning light indicates that little washer fluid remains.	Add washer fluid (page 6-24).

*Some models.

Signal	Warning	Action to be taken
 Door-Ajar/Liftgate-Ajar Warning Indication/ Warning Light	The light turns on if any door/liftgate is not closed securely.	Close the door/liftgate securely.
 Hood-Ajar Warning Indication (With i-stop)	The indication displays if the hood is not closed securely.	Close the hood securely.

Tire Pressure Monitoring System Warning Light (Turns on)*



Take the appropriate action and verify that the warning light turns off.

Warning
When the warning light illuminates, and the warning beep sound is heard when tire pressure is too low in one or more tires. **⚠ 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.*

 *Some models.

Action to be taken
Inspect the tires and adjust to the specified inflation pressure (page 6-35). **⚠ 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.* *If the warning light illuminates again even after the tire pressures are adjusted, there may be a tire puncture.*

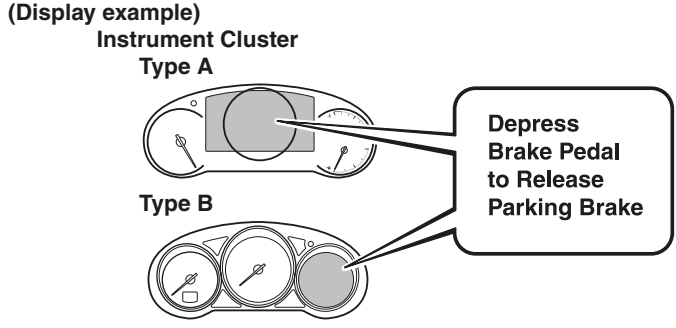
KEY Warning Indication/Warning Light

Take the appropriate action and verify that the warning light turns off.

Signal	Cause	Action to be taken
 (White) KEY Warning Indication	The key battery is dead.	Replace the key battery (page 6-33).
 (Red) (Flashing) KEY Warning Light	The key battery is dead.	Replace the key battery (page 6-33).
	The key is not within the operation range.	Bring the key into the operation range (page 3-8).
	The key is placed in areas inside the cabin where it is difficult for the key to be detected.	
	A key from another manufacturer similar to the key is in the operation range.	Take the key from another manufacturer similar to the key out of the operation range.
	Without the ignition switched off, the key is taken out of the cabin, and then all the doors are closed.	Bring the key back into the cabin.

Message Indicated on Multi-information Display*

If there is a notification from the vehicle, a message is displayed in the multi-information display. Check the information and take the necessary action.



If the warning light turns on/flashes simultaneously or a symbol is indicated in the display, check the information regarding the warning light or symbol.
Refer to If a Warning Light Turns On or Flashes on page 7-22.

Display	Content	Action to be taken
Move Shift Lever to "P" Position	Indicated when the push button start is pressed while the selector lever is not in the P position.	Shift the selector lever to the P position.
Depress Brake Pedal to Start Engine	Indicated when the push button start is pressed without depressing the brake pedal.	Depress the brake pedal and press the push button start.
Depress Brake Pedal to Release Parking Brake	Indicates when the Electric Parking Brake (EPB) switch is operated without depressing the brake pedal.	Operate the Electric Parking Brake (EPB) switch while depressing the brake pedal.
Brake Hold Unavailable Depress Brake to Hold Position	Indicates when there is a problem with the brake related system while the vehicle is being held in a stop position by the AUTOHOLD function or during the Mazda Radar Cruise Control with Stop & Go function (MRCC with Stop & Go function) stop hold control.	Depress the brake pedal. Cancel the AUTOHOLD function or the Mazda Radar Cruise Control with Stop & Go function (MRCC with Stop & Go function), and have your vehicle inspected at an Authorized Mazda Dealer.
Incline Too Steep Vehicle May Not Be Able to Hold Stopped Position	Indicates the possibility of the vehicle not being held in the stopped position by the AUTOHOLD function or the Mazda Radar Cruise Control with Stop & Go function (MRCC with Stop & Go function) stop hold control, such as on steep slopes.	Depress and hold your foot on the brake pedal.

*Some models.

Display	Content	Action to be taken
Brake Pedal Must Be Depressed to Deactivate Auto Hold System	Indicates when the cancel operation is done without depressing the brake pedal while the vehicle is being held in the stopped position by the AUTOHOLD function.	Cancel the AUTOHOLD function stop hold control while depressing the brake pedal.
Excessive Engine Temperature: Engine Output Will Be Limited	Indicated when the engine coolant temperature is high or the engine is hot, and the engine output is limited.	Drive slowly and make sure that the indication turns off. If the indication does not turn off, consult an Authorized Mazda Dealer.
Mi-Drive Unavailable Due to System Malfunction	This message is indicated when the Mi-Drive switch is operated while there is a problem with the Mazda intelligent Drive Select (Mi-Drive) related system.	Have your vehicle inspected by an Authorized Mazda Dealer.
SPORT Mode Unavailable Due to Speed/Cruise Control Use	This message is indicated when SPORT mode is selected while Mazda Radar Cruise Control with Stop & Go function (MRCC with Stop & Go function), and Cruising & Traffic Support (CTS) are operating.	When Mazda Radar Cruise Control with Stop & Go function (MRCC with Stop & Go function), and Cruising & Traffic Support (CTS) are operating, the vehicle cannot be driven in SPORT mode.
Mi-Drive Canceled Due to System Malfunction	This message is indicated when there is a problem with the related system during Mi-Drive operation.	Have your vehicle inspected by an Authorized Mazda Dealer.
SPORT Mode Canceled Due to Speed/Cruise Control Use	This message is indicated when Mazda Radar Cruise Control with Stop & Go function (MRCC with Stop & Go function), and Cruising & Traffic Support (CTS) are turned on while the vehicle is being driven in SPORT mode.	When Mazda Radar Cruise Control with Stop & Go function (MRCC with Stop & Go function), and Cruising & Traffic Support (CTS) are operating, the vehicle cannot be driven in SPORT mode.
Mi-Drive Selection Temporarily Unavailable	This message is indicated when the Mi-Drive switch operation is not accepted during operation of equipment such as the ABS.	Operate the Mi-Drive switch during steady driving.
Mi-Drive Canceled	This message is indicated when Mi-Drive is stopped by an operation other than by the driver.	If this message is indicated even though the Mi-Drive switch is operated again, have your vehicle inspected by an Authorized Mazda Dealer.

Warning Sound is Activated

▼ Lights-On Reminder

The lights-on reminder is operable when the time setting*1 of the auto headlight off function is off.
If lights are on and the ignition is switched to ACC or off, a continuous beep sound will be heard when the driver's door is opened.

*1 If the light switch is left on, the auto headlight off function automatically turns off the lights about 30 seconds after switching the ignition off. The time setting can be changed.
Refer to the Mazda Connect Owner's Manual or consult an Authorized Mazda Dealer.

NOTE

- *When the ignition is switched to ACC, the "Ignition Not Switched Off (STOP) Warning Beep" (page 7-40) overrides the lights-on reminder.*
- *A personalized function is available to change the sound volume for the lights-on reminder.*
  Refer to the Mazda Connect Owner's Manual or consult an Authorized Mazda Dealer.

▼ Air Bag/Seat Belt Pretensioner System Warning Beep

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

▼ Seat Belt Warning Beep

Front seat

Except Mexico

If the driver's seat belt is not fastened when the ignition is switched ON, a beep sound will be heard for about 6 seconds. If the driver or the front passenger's seat belt is not fastened and if the vehicle is driven at about 20 km/h (12 mph) or faster, or about 10 km/h (6 mph) or faster for a continuous 30 seconds, with the seat belt unfastened, a sound is activated continuously for a certain period.
Until a seat belt is fastened or a given period of time has elapsed, the beep sound

will not stop even if the vehicle speed falls below 20 km/h (12 mph).

NOTE

- *To allow the front passenger occupant classification sensor to function properly, do not place and sit on an additional seat cushion on the front passenger's seat. The sensor may not function properly because the additional seat cushion could cause sensor interference.*
- *If a small child is seated on the front passenger's seat, the warning beep may not operate.*

Mexico

If the vehicle speed exceeds about 20 km/h (12 mph) with the driver or front passenger's seat belt unfastened, a warning beep sounds continuously. If the seat belt remains unfastened, the beep sound stops once and then continues for about 90 seconds. The beep stops after the driver or front passenger's seat belt is fastened. Until a seat belt is fastened or a given period of time has elapsed, the beep sound will not stop even if the vehicle speed falls below 20 km/h (12 mph).

NOTE

- *Placing heavy items on the front passenger's seat may cause the front passenger's seat belt warning function to operate depending on the weight of the item.*
- *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's seat. The sensor may not function properly because the additional seat cushion could cause sensor interference.*
- *If a small child is seated on the front passenger's seat, the warning beep may not operate.*

Rear seat

The warning beep only sounds if a seat belt is unfastened after being fastened.

▼ Ignition Not Switched Off (STOP) Warning Beep

If the driver's door is opened with the ignition switched to ACC, a beep will be heard continuously in the cabin to notify the driver that the ignition has not been switched OFF (STOP). Under this condition, the keyless entry system will not operate, the vehicle cannot be locked, and the lead-acid battery voltage will be depleted.

▼ Key Removed from Vehicle Warning Beep

Vehicles with advanced keyless function

If the key is taken out of the vehicle while the ignition is not switched OFF and all the doors are closed, the beep which sounds outside of the vehicle will be heard 6 times, the beep which sounds inside the vehicle will be heard 6 times.

Vehicles without advanced keyless function

If the key is taken out of the vehicle while the ignition is not switched OFF and all

the doors are closed, a beep will be heard in the cabin 6 times.

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

▼ Request Switch Inoperable Warning Beep (With the advanced keyless function)

If the request switch is pressed with the door open or ajar, or the ignition is not switched OFF with a key being carried, a beep will be heard outside for about 2 seconds to notify the driver that the door or liftgate cannot be locked.

▼ Key Left-in-luggage Compartment Warning Beep (With the advanced keyless function)

If the key is left in the luggage compartment with all the doors locked and the liftgate closed, a beep will be heard outside for about 10 seconds to notify the driver that the key is in the luggage compartment. In this case, take out the key by pressing the electric liftgate opener and opening the liftgate. The key taken out of the luggage compartment may not operate because its functions have been temporarily stopped. To restore the key's functions, perform the applicable procedure (page 3-9).

▼ Key Left-in-vehicle Warning Beep (With the advanced keyless function)

If all the doors and luggage compartment are locked using another key while the key is left in the cabin, the beep which sounds outside of the vehicle will be heard for about 10 seconds to notify the driver that the key is in the cabin. In this case, take out the key by opening the door. A key taken out of the vehicle using this method may not operate because its functions have been temporarily stopped. To restore the key's functions, perform the applicable procedure (page 3-9).

▼ Power Liftgate Warning Beep*

If system operation precautions are necessary, the driver is notified by the warning sound.

Cautions	What to check
The beep sounds 3 times	The conditions required for the power liftgate to operate have not been met, such as an object being stuck in the liftgate.
The beep sound continues	The vehicle is being driven with the liftgate open. Stop the vehicle and close the liftgate.

▼ Electric Parking Brake (EPB) Warning Beep

The warning buzzer is activated under the following conditions:

- The vehicle is driven with the parking brake applied.
- The Electric Parking Brake (EPB) switch is pulled while the vehicle is driven.

▼ AUTOHOLD Warning Beep

Warning light flashes/message is displayed and beep sound is activated simultaneously for about 5 seconds when using AUTOHOLD function or when AUTOHOLD switch is operated.
Because a problem with AUTOHOLD function has occurred, AUTOHOLD function does not operate even if AUTOHOLD switch is operated.

If the warning light flashes/message is displayed and the beep sound is activated simultaneously, have your vehicle inspected at an Authorized Mazda Dealer.

▼ Power Steering Warning Buzzer

If the power steering system has a malfunction, the power steering malfunction indication/malfunction indicator light turns on or flashes and the buzzer operates at the same time.
Refer to Stop Vehicle in Safe Place Immediately on page 7-22.

▼ Tire Inflation Pressure Warning Beep

The warning beep sound will be heard for about 3 seconds if the tire pressures decrease.
Refer to Tire Pressure Monitoring System on page 4-251.

▼ Blind Spot Monitoring (BSM) Warning Beep*

Driving forward

The warning beep operates when the turn signal lever is operated to the side where the Blind Spot Monitoring (BSM) warning light is illuminated.

NOTE
A personalized function is available to change the Blind Spot Monitoring (BSM) warning beep sound volume.
Refer to the Mazda Connect Owner's Manual or consult an Authorized Mazda Dealer.

Reversing

The Blind Spot Monitoring (BSM) warning sound is activated if there is a possibility of collision with a vehicle approaching from behind and from the rear on the left and right sides of the vehicle.

▼ Lane Departure Warning Sound*

While the system is operating, if the system determines that the vehicle may depart from the lane, it sounds a warning sound.

NOTE

- *The volume of the Lane-keep Assist System (LAS) & Lane Departure Warning System (LDWS) warning sound can be changed.*
  Refer to the Mazda Connect Owner's Manual or consult an Authorized Mazda Dealer.
- *The type of the Lane-keep Assist System (LAS) & Lane Departure Warning System (LDWS) warning sound can be changed.*
  Refer to the Mazda Connect Owner's Manual or consult an Authorized Mazda Dealer.

*Some models.

▼ Mazda Radar Cruise Control with Stop & Go function (MRCC with Stop & Go function) System Warnings*

The Mazda Radar Cruise Control with Stop & Go function (MRCC with Stop & Go function) system warnings notify the driver of system problems and precautions on use when required. Check after hearing a warning beep sound.

Warning beep	What to check
While the Mazda Radar Cruise Control with Stop & Go function (MRCC with Stop & Go function) system is operating, a single beep sound is heard when “Front Radar Sensor Blocked” is displayed in the multi-information display.	Cancel the Mazda Radar Cruise Control with Stop & Go function (MRCC with Stop & Go function) system if the radar sensor (front) becomes dirty. Clean the area around the radar sensor (front).
The beep sounds intermittently while the vehicle is being driven.	The distance between your vehicle and the vehicle ahead is too close. Verify the safety of the surrounding area and reduce vehicle speed.
While the Mazda Radar Cruise Control with Stop & Go function (MRCC with Stop & Go function) system is operating, a single beep sound is heard when “ Front Radar Sensor System Malfunction” is displayed in the multi-information display.	A malfunction in the system may be indicated. Check the center display to verify the problem and then have your vehicle inspected by an Authorized Mazda Dealer.

▼ Excessive Speed Warning*

If the vehicle speed exceeds the speed limit sign displayed on the active driving display, the warning sound is activated and the area around the speed limit sign displayed on the active driving display flashes 3 times in amber, and if the vehicle speed continues to exceed the displayed speed limit sign, the indication stops flashing and remains on.

▼ Collision warning*

If there is a possibility of a collision with a vehicle ahead or an obstruction at the rear of the vehicle, the warning light in the instrument cluster flashes at the same time as the warning indication is displayed in the multi-information display, and a warning sound is activated intermittently.

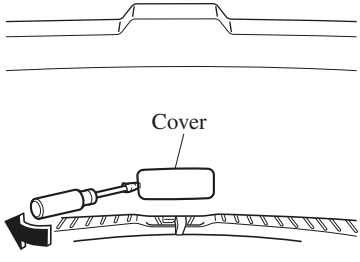
▼ i-stop Warning Beep*

- If the driver's door is opened while engine idling is stopped, the warning sound operates to notify the driver that engine idling is stopped. It stops when the driver's door is closed.

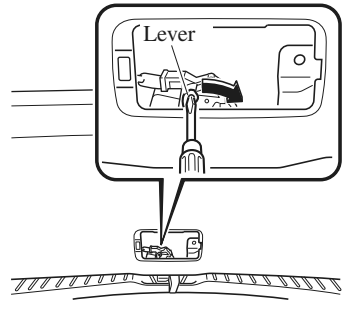
When Liftgate Cannot be Opened

If the lead-acid battery is dead, the liftgate cannot be unlocked and opened.
In this case, the liftgate can be unlocked by taking care of the dead lead-acid battery situation.
Refer to Jump-Starting on page 7-13.
If the liftgate cannot be unlocked even if the dead lead-acid battery situation has been resolved, the electrical system may have a malfunction.
In this case, the liftgate can be opened using the following procedure as an emergency measure.

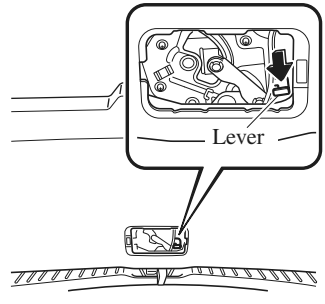
1. Wrap the end of a flathead screwdriver in a cloth and remove the cover on the interior surface of the liftgate using it.



2. **(Without power liftgate)**
   Turn the lever to the right to unlock the liftgate.



(With power liftgate)
Push the liftgate while pressing the lever down.



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

If the Active Driving Display Does Not Operate

If the active driving display does not operate, switch the ignition off and then restart the engine. If the active driving display does not operate even with the engine restarted, have the vehicle inspected at an Authorized Mazda Dealer.

MEMO

8 Customer Information and Reporting Safety Defects

Important consumer information including warranties and add-on equipment.

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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. For more information, go to NHTSA website www.safercar.gov (VEHICLE SHOPPERS > Air Bags > Air Bag FAQs > Air Bag Deactivation).

▼ 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 STEP 2.

▼ STEP 2: Contact Mazda North American Operations

If for any reason you feel the need for further assistance after contacting your dealership management or 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 bottom of the page at www.mazdausa.com under “Help”

By phone at: 1 (800) 222-5500

By letter at:
ATTN: Customer Experience Center
Mazda North American Operations
200 Spectrum Center Drive Suite 100
Irvine, California 92618
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.

Customer Assistance

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.

The whole process normally takes 40 days or less. The arbitration decision is not binding on you or Mazda unless 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.bbb.org/autoline.

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 a mediation/arbitration program administered by BBB AUTO LINE, a Division of BBB National Programs, Inc. [1676 International Drive, Suite 550, McLean, Virginia 22102] 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
200 Spectrum Center Drive Suite 100
Irvine, California 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).
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 8-9).

▼ 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 Number on page 9-2 for the location of the VIN.
4. Purchase date
5. Present odometer reading
6. Your dealer's name and location
7. The nature of your problem and/or cause of dissatisfaction

The Department, in cooperation with the local Mazda Service Representative, will review the case to determine if everything possible has been done to ensure your satisfaction.

Please recognize that the resolution of service problems in most cases requires the use of your Mazda dealer's service facilities, personnel and equipment. We urge you to follow the above three steps in sequence for most effective results.

▼ Mediation/Arbitration Program

Occasionally a customer concern cannot be resolved through Mazda's Customer Satisfaction Program. If after exhausting the procedures in this manual your concern is still not resolved, you have another option.

Mazda Canada Inc. participates in an arbitration program administered by the Canadian Motor Vehicle Arbitration Plan (CAMVAP). CAMVAP will advise you about how your concern may be reviewed and resolved by an independent third party through binding arbitration.

Your complete satisfaction is the goal of Mazda Canada Inc. and our dealers.
Mazda's participation in CAMVAP makes a valuable contribution to our achieving that goal. There is no charge for using CAMVAP. CAMVAP results are fast, fair and final as the award is binding on both you and Mazda Canada Inc.

▼ Canadian Motor Vehicle Arbitration Plan (CAMVAP)

If a specific item of concern arises, where a solution cannot be reached between an owner, Mazda, and/or one of its dealers (that all parties cannot agree upon), the owner may wish to use the services offered by the Canadian Motor Vehicle Arbitration Plan (CAMVAP).

CAMVAP uses the services of Provincial Administrators to assist consumers in scheduling and preparing for their arbitration hearings. However, before you can proceed with CAMVAP you must follow your Mazda dispute resolution process as outlined previously.

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:

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

Province/Territory	CAMVAP Number
Ontario	1 (800) 207-0685
Atlantic Canada	1 (800) 207-0685
Quebec	1 (800) 207-0685

▼ Regional Offices

REGIONAL OFFICES	COVERING AREAS
MAZDA CANADA INC. WESTERN REGION 5011 275 STREET LANGLEY, BRITISH COLUMBIA V4W 0A8 (778) 369-2100	ALBERTA, BRITISH COLUMBIA, MANITOBA, SASKATCHEWAN, YUKON
MAZDA CANADA INC. CENTRAL REGION 55 VOGELL ROAD, RICHMOND HILL, ONTARIO, L4B 3K5 1 (800) 263-4680	ONTARIO, NEW BRUNSWICK, NOVA SCOTIA, PRINCE EDWARD ISLAND, NEWFOUNDLAND
MAZDA CANADA INC. QUEBEC REGION 6111 ROUTE TRANSCANADIENNE POINTE CLAIRE, QUEBEC H9R 5A5	QUEBEC

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.
Refer to Importer/Distributor on page 8-13.

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:

▼ 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 condition in accordance with a certified physician you must contact your dealership in order to avoid the potential loss of the warranty of your vehicle which may occur if some third party is hired by the customer to make any modifications to this system.

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: 01 800 01 MAZDA (62932)

By letter at:
Attn: Customer Assistance
Mazda Motor de Mexico
Mario Pani 400 PB, Col. Santa Fe Cuajimalpa, Delegación Cuajimalpa de Morelos, Ciudad de México, CP 05348
Tel: Customer Assistance
01 800 01 MAZDA(62932).

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
200 Spectrum Center Drive Suite 100
Irvine, California 92618
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.)

▼ **CANADA**

Mazda Canada Inc.
55 Vogell Road, Richmond Hill,
Ontario, L4B 3K5 Canada

▼ **PUERTO RICO/U.S. Virgin Island**

International Automotive Distributor Group, LLC. (Mazda de Puerto Rico)
P.O. Box 191850, San Juan, Puerto Rico 00919-1850
TEL: (787) 641-1777

▼ **MEXICO**

Mazda Motor de Mexico
Mario Pani 400 PB, Col. Santa Fe Cuajimalpa, Delegación Cuajimalpa de Morelos, Ciudad de México, CP 05348
TEL: Center of Attention to Clients:
01 (800) 016 2932. in Mexico

▼ **GUAM**

Triple J Motors
157 South Marine Drive, Tamuning,
GUAM 96911 USA
P.O. Box 6066 Tamuning, Guam 96931
TEL: (671) 649-6555

▼ **SAIPAN**

Pacific International Marianas, Inc. (d.b.a. Midway Motors)
P.O. Box 887 Saipan, MP 96950
TEL: (670) 234-7524

Triple J Saipan, Inc. (d.b.a. Triple J Motors)
P.O. Box 500487 Saipan, MP 96950-0487
TEL: (670) 234-7133/3051

▼ **AMERICAN SAMOA**

Polynesia Motors, Inc.
P.O. Box 1120, Pago Pago, American Samoa 96799
TEL: (684) 699-9347

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 or 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 or 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
200 Spectrum Center Drive Suite 100
Irvine, California 92618
or
P.O. Box 19734
Irvine, CA 92623-9734
Customer Experience 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 8-13) in this manual.

Reporting Safety Defects (Canada)

Canadian customers who wish to report a safety-related defect and concern to Transport Canada, Defect Investigations and Recalls, may telephone the toll free hotline 1-800-333-0510, or go to the Road Safety website at:
https://www.tc.gc.ca/en/services/road.html

Warranties for Your Mazda

- New Vehicle Limited Warranty
- Powertrain Limited Warranty
- Safety Restraint System Limited Warranty
- Anti-perforation Limited Warranty
- Federal Emission Control Warranty/California Emission Control Warranty
  - Emission Defect Warranty
  - Emission Performance Warranty
- Emission Control Warranty
- Replacement Parts and Accessories Limited Warranty
- Tire Warranty

NOTE
Warranty information varies depending on the country. Refer to the Warranty Booklet for detailed warranty information.

Outside the United States/Canada

Government regulations in the United States/Canada require that automobiles meet specific emission regulations and safety standards. Therefore, vehicles built for use in the United States/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 the United States/Canada.

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 Standards (CMVSS).

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 the United States/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.

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:
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 country:

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.

Event Data Recorder (U.S.A. and Canada)

This vehicle is equipped with an event data recorder (EDR). The main purpose of an EDR is to record, in certain crash or near crash-like situations, such as an air bag deployment or hitting a road obstacle, data that will assist in understanding how a vehicle's systems performed. The EDR is designed to record data related to vehicle dynamics and safety systems for a short period of time, typically 30 seconds or less. The EDR in this vehicle is designed to record such data as:

- How various systems in your vehicle were operating;
- Whether or not the driver and passenger safety belts were buckled/fastened;
- How far (if at all) the driver was depressing the accelerator and/or brake pedal; and,
- How fast the vehicle was traveling.

These data can help provide a better understanding of the circumstances in which crashes and injuries occur.
NOTE:
EDR data are recorded by your vehicle only if a non-trivial crash or near crash-like situation occurs; no data are recorded by the EDR under normal driving conditions and no personal data (e.g., name, gender, age, and crash location) are recorded. However, other parties, such as law enforcement, could combine the EDR data with the type of personally identifying data routinely acquired during a crash investigation.
To read data recorded by an EDR, special equipment is required, and access to the vehicle or the EDR is needed. In addition to the vehicle manufacturer, other parties, such as law enforcement, that have the special equipment, can read the information if they have access to the vehicle or the EDR.

Mazda will not disclose any of the data recorded in an EDR to a third party unless:

- A written agreement from the vehicle owner or the lessee is obtained
- Officially requested by the police or other law enforcement authorities
- Used as a defense for Mazda in a lawsuit, claim, or arbitration
- Ordered by a judge or court

However, if necessary Mazda will:

- Use the data for research on Mazda vehicle performance, including safety.
- Disclose the data or the summarized data to a third party for research purposes without disclosing vehicle or owner identification information.

Recording of Vehicle Data

This vehicle is equipped with a computer which records the following main vehicle data related to vehicle controls, operation, and other driving conditions.

Recorded data

- Vehicle conditions such as engine speed and vehicle speed
- Driving operation conditions such as accelerator and brake pedals, and information related to the environmental circumstances while the vehicle is driven
- Malfunction diagnosis information from each on-vehicle computer
- Information related to controls of other on-vehicle computers

NOTE
The recorded data may vary depending on the vehicle grade and optional equipment. Voice and images are not recorded.

Data handling

Mazda and its subcontracting parties may obtain and use the recorded data for vehicle malfunction diagnosis, research and development, and quality improvement.
Mazda will not disclose or provide any of the obtained data to a third party unless:

- An agreement from the vehicle owner (agreements from lessor and lessee for leased vehicle) is obtained
- Officially requested by the police or other law enforcement authorities
- For statistical processing by a research institution after processing the data so that identification of the owner or the vehicle is impossible

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.

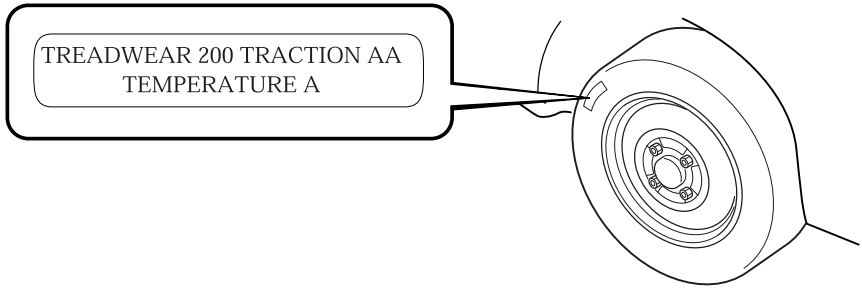
The grade of tires available as standard or optional equipment on Mazda vehicles may vary with respect to grade.

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)

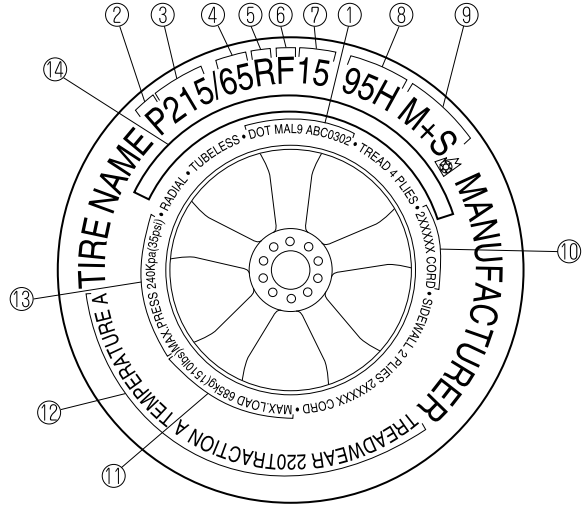


Tire Labeling

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
11. Max. load rating
12. Tread wear, traction and temperature grades
13. Max. permissible inflation pressure
14. SAFETY WARNING

Tire Information (U.S.A.)

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.

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

Letter Rating	Speed Rating
V	149 mph
W	168* mph
Y	186* mph

* For tires with a maximum speed capability over 149 mph, tire manufacturers sometimes use the letters ZR. For tires with a maximum speed capability over 186 mph, tire manufacturers always use the letters ZR.

M+S or M/S: Mud and Snow

AT: All Terrain.
AS: All Season. The "M+S" or "M/S" indicates that the tire has some functional use in mud and snow.

U.S. DOT Tire Identification Number (TIN)

This begins with the letters "DOT" which indicates the tire meets all federal standards. The next two numbers or letters are the plant code where it was manufactured, and the last four numbers represent the week and year the tire was manufactured. For example, the numbers 457 means the 45st week of 1997. After 2000 the numbers go to four digits. For example, the number 2102 means the 21th week of 2002. The other numbers are marketing codes used at the manufacturer's discretion. This information is used to contact consumers if a tire defect requires a recall.

Tire Ply Composition and Materials Used

The number of plies indicates the number of layers of rubber-coated fabric in the tire. In general, the greater the number of plies, the more weight a tire can support. Tire manufacturers also must indicate the tire materials, which include steel, nylon, polyester, and other.

Maximum Load Rating

This number indicates the maximum load in kilograms and pounds that can be carried by the tire.

Maximum Permissible Inflation Pressure

This number is the greatest amount of air pressure that should ever be put in the tire under normal driving conditions.

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.

Tire Information (U.S.A.)

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.

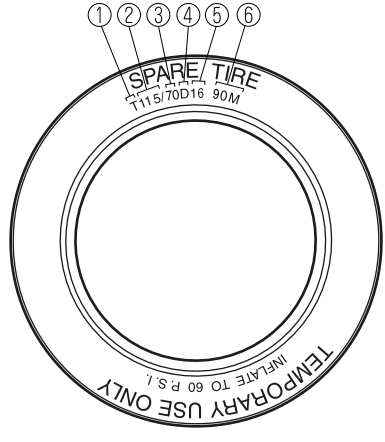
SAFETY WARNING

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.

▼ 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

T115/70D16 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.

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

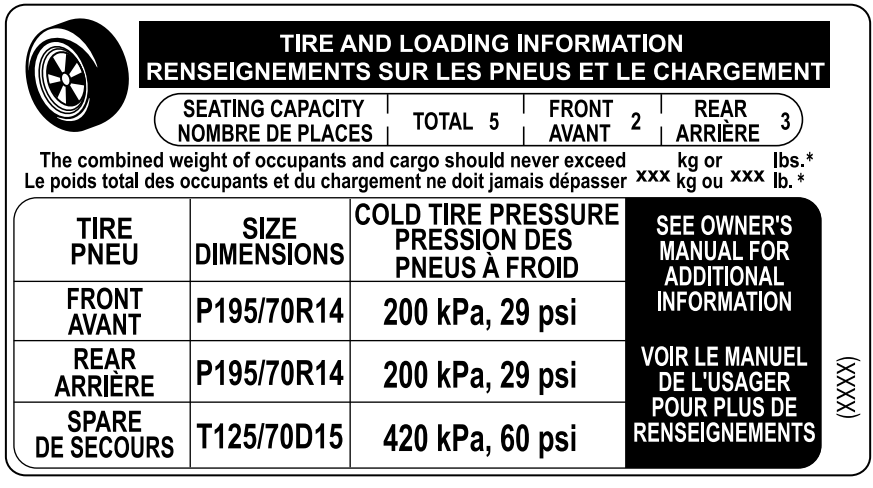
“M” is the speed rating. The speed rating denotes the maximum speed for which the use of the tire is rated.

Letter Rating	Speed Rating
M	81 mph

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



▼ 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 9-12.

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.

⚠ 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.

▼ 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.

Tire Information (U.S.A.)

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 Maintenance

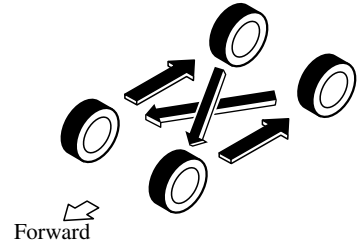
Improper or inadequate vehicle maintenance can cause tires to wear abnormally. Here are some important maintenance points:

▼ 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) at the latest or sooner if irregular wear develops. Mazda recommends to rotate every 8,000 km (5,000 miles) to help increase tire life and distribute wear more evenly.



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 9-12) and inspect the lug nuts for tightness.

⚠ CAUTION

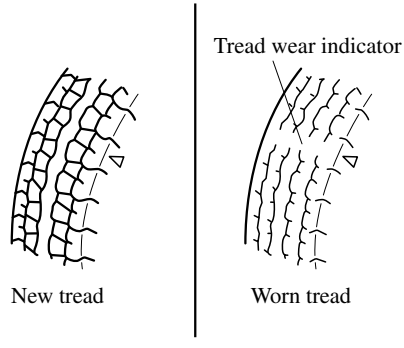
Rotate unidirectional tires and radial tires that have an asymmetrical tread pattern or studs only from front to rear, not from side to side. Tire performance will be weakened if rotated from side to side.

▼ 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 the tire before the band crosses 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. The period in which the tire was manufactured (both week and year) is indicated by a 4-digit number.
Refer to Tire Labeling on page 8-25.

▼ 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 and drive at speeds that are safe for the existing weather conditions
- 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.

Vehicle Loading

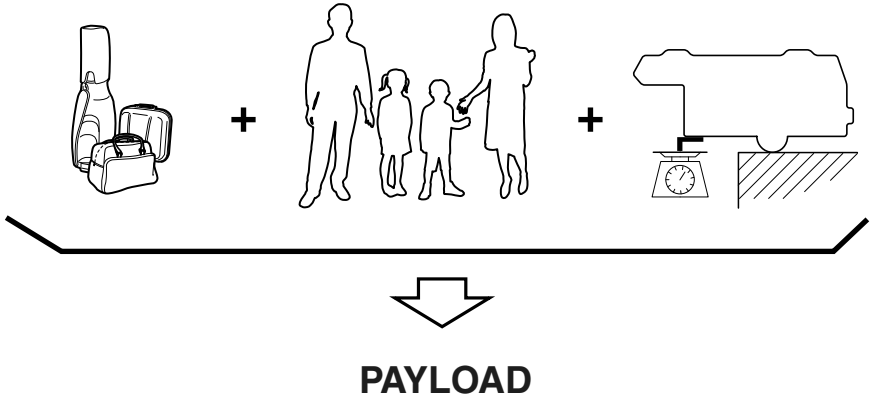
This section will guide you in the proper loading of your vehicle and/or trailer, to keep your loaded vehicle weight within its design rating capability, with or without a trailer. Properly loading your vehicle will provide maximum return of vehicle design performance. Before loading your vehicle, familiarize 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.

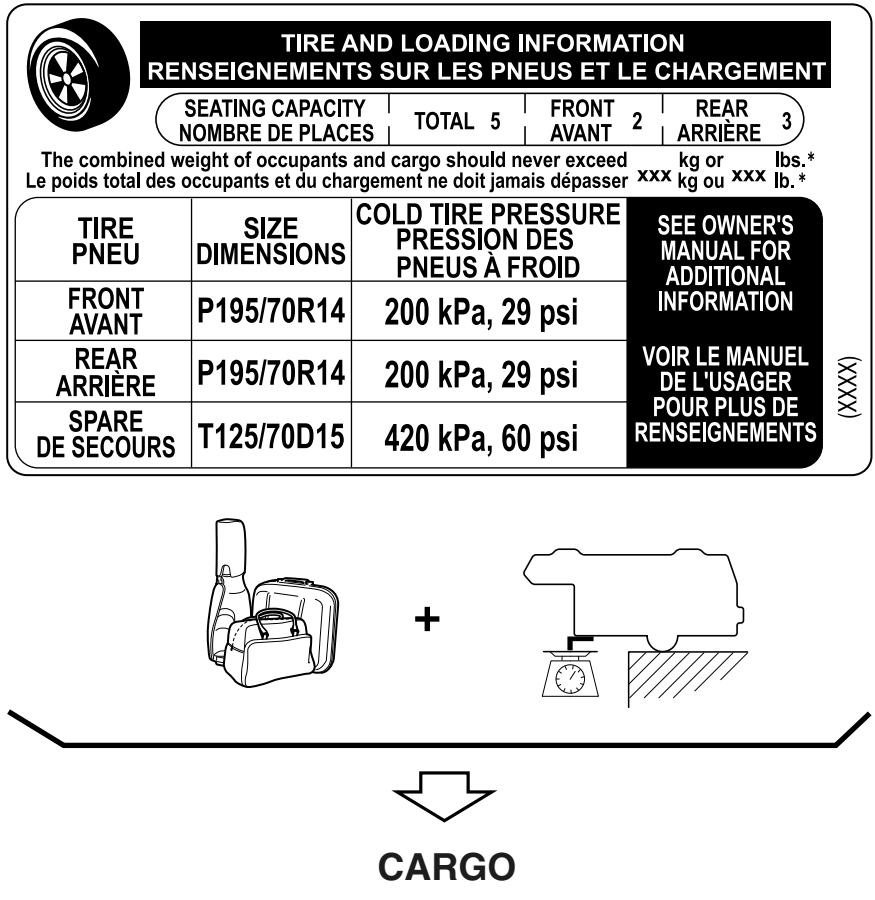
Base Curb Weight is the weight of the vehicle including a full tank of fuel and all standard equipment. It does not include passengers, cargo, or optional equipment.

Vehicle Curb Weight is the weight of your new vehicle when you picked it up from your dealer plus any aftermarket equipment.



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



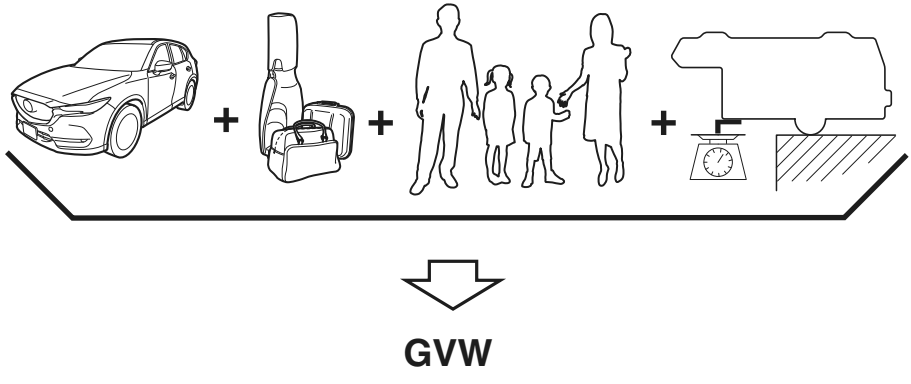
Cargo Weight includes all weight added to the Base Curb Weight, including cargo and optional equipment. When towing, trailer tongue load or king pin weight is also part of cargo weight.

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 kg (849 lbs) − 68 kg (150 lbs) = 317 kg (699 lbs)
The cargo weight limit with two occupants is 385 kg (849 lbs) − (68 × 2) kg ((150 × 2) lbs) = 249 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.

GAWR (Gross Axle Weight Rating) is the maximum allowable weight that can be carried by a single axle (front or rear). **These numbers are shown on the Safety Compliance Certification Label located on the driver's door frame or door pillar. The total load on each axle must never exceed its GAWR.**

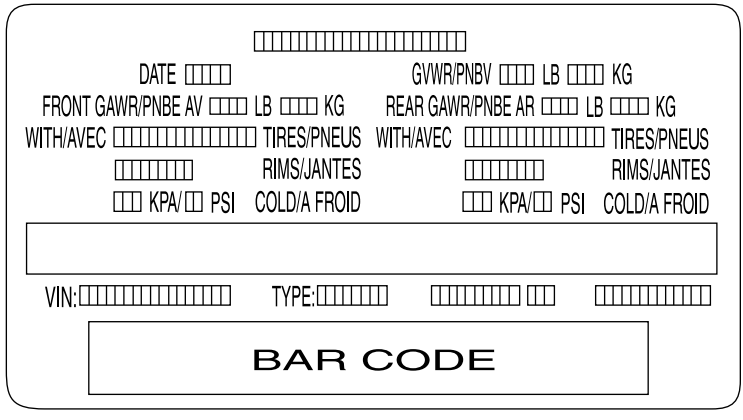


GVW (Gross Vehicle Weight) is the Vehicle Curb Weight + cargo + passengers.

GVWR (Gross Vehicle Weight Rating) is the maximum allowable weight of the fully loaded vehicle (including all options, equipment, passengers and cargo). **The GVWR is**

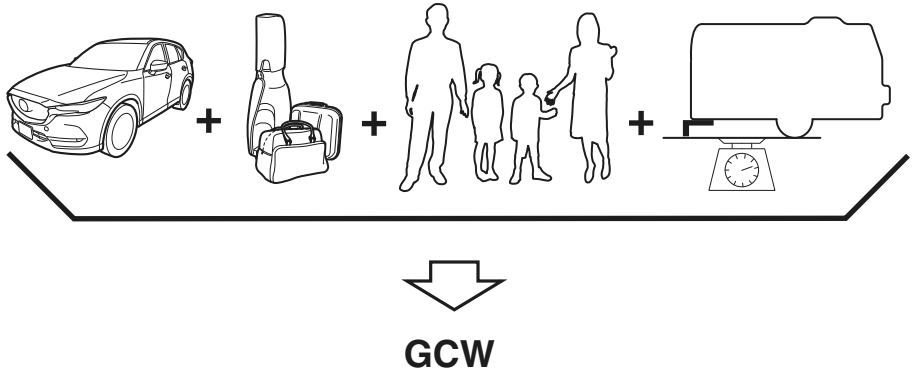
shown on the Safety Compliance Certification Label located on the driver's door frame or door pillar. The GVW must never exceed the GVWR.

SAMPLE



⚠ WARNING

Never Exceed Axle Weight Rating Limits:
Exceeding the Safety Certification Label axle weight rating limits is dangerous and could result in death or serious injury as a result of substandard vehicle handling, performance, engine, transmission and/or structural damage, serious damage to the vehicle, or loss of control.
Always keep the vehicle within the axle weight rating limits.



Tire Information (U.S.A.)

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.

⚠ WARNING

Never Exceed 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.

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 × 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, 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.

Declaration of Conformity

▼ Keyless Entry System/Immobilizer System

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

FCC/ISED
This device complies with part 15 of FCC Rules and Innovation, Science and Economic Development Canada's licence-exempt RSS(s). 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.
Le présent appareil est conforme à la partie 15 des règles de la FCC et aux normes des CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'appareil doit accepter tout brouillage subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

(MEXICO)
La operación de este equipo está sujeta a las siguientes dos condiciones: (1) es posible que este equipo o dispositivo no cause interferencia perjudicial y (2) este equipo o dispositivo debe aceptar cualquier interferencia, incluyendo la que pueda causar su operación no deseada.

▼ Blind Spot Monitoring (BSM)

IC: 21140-24GMMR1A

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation,
Science and Economic Development Canada's licence-exempt RSS(s).
Operation is subject to the following two conditions:
(1) This device may not cause harmful interference.
(2) This device must accept any interference, including interference that may cause undesired operation of the device.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation,
Sciences et Développement économique Canada applicables aux appareils radio exempts de licence.
L'exploitation est autorisée aux deux conditions suivantes:
1. L'appareil ne doit pas produire de brouillage;
2. L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Radiofrequency radiation exposure Information:
This equipment complies with radiation exposure limits set forth for an uncontrolled environment.
This equipment should be installed and operated with minimum distance of 20 cm between the radiator and your body.

Informations sur l'exposition aux rayonnements radiofréquences:
Cet équipement est conforme aux limites d'exposition aux rayonnements définies pour un environnement non contrôlé.
Cet équipement doit être installé et utilisé avec un minimum de 20 cm de distance entre la source de rayonnement et votre corps.

Declaration of Conformity

・Made by ADC automotive Distance Control Systems GmbH

■U.S.A, Canada, Puertorico

FCC ID: OAYSRR3A

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.

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

■CANADA

Required statement(English)

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

1. This device may not cause interference.
2. This device must accept any interference, including interference that may cause undesired operation of the device.

Radiofrequency radiation exposure information:
This equipment complies with radiation exposure limits set forth for an uncontrolled environment.
This equipment should be installed and operated with minimum distance of 20 cm between the radiator and your body.

Required statement(French)

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

1. L'appareil ne doit pas produire de brouillage;
2. L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Informations sur l'exposition aux rayonnements radiofréquences:
Cet équipement est conforme aux limites d'exposition aux rayonnements définies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 20 cm de distance entre la source de rayonnement et votre corps.

■MEXICO

Certificado de homologacion: RLVCOSR15-0442
Continental SRR3-A

Este equipo opera a titulo secundario, consecuentemente,
debe aceptar interferencias perjudiciales
incluyendo equipos de la misma clase y puede no causar
interferencias a sistemas operando a titulo primario.

Declaration of Conformity

▼ HomeLink Wireless Control System

Type A

FCC (USA) and ISED (Canada)

This device complies with FCC rules part 15 and Innovation, Science, and Economic Development Canada RSS-210. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference that may be received including interference that may cause undesired operation. WARNING: The transmitter has been tested and complies with FCC and ISED rules. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the device.

FCC (États-Unis) et ISED (Canada)

Cet appareil est conforme aux règlements de la FCC, section 15, et au CNR-210 d'Innovation, Sciences et Développement économique Canada. Le fonctionnement est assujetti aux deux conditions suivantes : (1) cet appareil ne doit pas causer d'interférences nuisibles et (2) cet appareil doit accepter toute interférence reçue, y compris celle qui pourrait entraîner un dysfonctionnement. MISE EN GARDE : L'émetteur a subi des tests et est conforme aux règlements de la FCC et d'ISDE. Les changements ou modifications non approuvés explicitement par la partie responsable de la conformité pourraient rendre caduque l'autorisation de l'utilisateur de se servir du dispositif.

Type B

U.S.A. and Canada

FCC (USA) and ISED (Canada)

This device complies with FCC rules part 15 and Innovation, Science, and Economic Development Canada RSS-210. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference that may be received including interference that may cause undesired operation. WARNING: The transmitter has been tested and complies with FCC and ISED rules. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the device.

This equipment complies with FCC and ISED radiation exposure limits set forth for an uncontrolled environment. End Users must follow the specific operating instructions for satisfying RF exposure compliance. This transmitter must be at least 20 cm from the user and must not be co-located or operating in conjunction with any other antenna or transmitter.

FCC (États-Unis) et ISED (Canada)

Cet appareil est conforme aux règlements de la FCC, section 15, et au CNR-210 d'Innovation, Sciences et Développement économique Canada. Le fonctionnement est assujetti aux deux conditions suivantes : (1) cet appareil ne doit pas causer d'interférences nuisibles et (2) cet appareil doit accepter toute interférence reçue, y compris celle qui pourrait entraîner un dysfonctionnement. MISE EN GARDE : L'émetteur a subi des tests et est conforme aux règlements de la FCC et d'ISDE. Les changements ou modifications non approuvés explicitement par la partie responsable de la conformité pourraient rendre caduque l'autorisation de l'utilisateur de se servir du dispositif.

Cet appareil est conforme aux limites d'exposition aux radiations de la FCC et d'ISDE établies pour un environnement non contrôlé. Les utilisateurs finaux doivent respecter les instructions d'utilisation spécifiques pour satisfaire aux exigences de conformité aux expositions de RF. L'émetteur doit se trouver à 20 cm au minimum de l'utilisateur et ne doit pas être situé au même endroit que tout autre émetteur ou antenne ni fonctionner avec un autre émetteur ou antenne.

Mexico

La operación de este equipo está sujeta a las siguientes dos condiciones: (1) es posible que este equipo o dispositivo no cause interferencia perjudicial y (2) este equipo o dispositivo debe aceptar cualquier interferencia, incluyendo la que pueda causar su operación no deseada.



▼ Tire Pressure Monitoring System

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

Canada
This device complies with Industry Canada licence-exempt RSS standard(s).
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.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Mexico
La operacion de este equipo esta sujeta a las siguientes dos condiciones: (1) es posible que este equipo o dispositivo no cause interferencia perjudicial y (2) este equipo o dispositivo debe aceptar cualquier interferencia, incluyendo la que pueda causar su operacion no deseada.

▼ Radio System

FCC

NOTE :
Properly shielded and grounded cables and connectors must be used for connection to host computers and / or peripherals in order to meet FCC emission limits.

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

▼ Audio System

USA(FCC)
Model No. : AM1904

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.

Responsible Party
・Name : Panasonic Corporation of North America
・Address : Two Riverfront Plaza, Newark, NJ 07102-5490
・Support Contact : https://shop.panasonic.com/support

NOTE
Properly shielded and grounded cables and connectors must be used forconnection to host computers and / or peripherals in order to meet FCCemission limits.

Compliance with FCC requirement 15.407(c)
Data transmission is always initiated by software, which is the passed down through the MAC, through the digital and analog baseband, and finally to the RF chip. Several special packets are initiated by the MAC. These are the only ways the digital baseband portion will turn on the RF transmitter, which it then turns off at the end of the packet. Therefore, the transmitter will be on only while one of the aforementioned packets is being transmitted. In other words, this device automatically discontinue transmission in case of either absence of information to transmit or operational failure.

Frequency Tolerance: ±20ppm

⚠ WARNING
RF Exposure
This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines. This equipment has very low levels of RF energy that it deemed to comply without maximum permissive exposure evaluation (MPE). [But it is desirable that it should be installed and operated keeping the radiator at least 20cm or more away from person's body.]

This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.

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

Declaration of Conformity

Canada

NOTE

This device complies with Industry Canada's applicable licence-exempt RSSs.
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.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence.
L'exploitation est autorisée aux deux conditions suivantes :
1) l'appareil ne doit pas produire de brouillage;
2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

CAUTION:

This equipment complies with ISED radiation exposure limits set forth for an uncontrolled environment and meets RSS-102 of the ISED radio frequency (RF) Exposure rules. This equipment should be installed and operated keeping the radiator at least 20cm or more away from person's body.

Cet équipement est conforme aux limites d'exposition aux rayonnements énoncées pour un environnement non contrôlé et respecte les règles d'exposition aux fréquences radioélectriques (RF) CNR-102 de l'ISDE. Cet équipement doit être installé et utilisé en gardant une distance de 20 cm ou plus entre le radiateur et le corps humain.

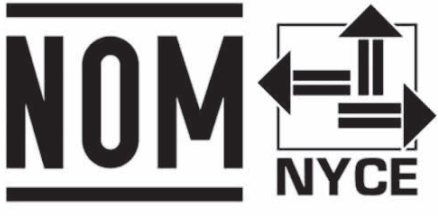
Data transmission is always initiated by software, which is the passed down through the MAC, through the digital and analog baseband, and finally to the RF chip. Several special packets are initiated by the MAC. These are the only ways the digital baseband portion will turn on the RF transmitter, which it then turns off at the end of the packet. Therefore, the transmitter will be on only while one of the aforementioned packets is being transmitted. In other words, this device automatically discontinue transmission in case of either absence of information to transmit or operational failure.

La transmission des données est toujours initiée par le logiciel, puis les données sont transmises par l'intermédiaire du MAC, par la bande de base numérique et analogique et, enfin, à la puce RF. Plusieurs paquets spéciaux sont initiés par le MAC. Ce sont les seuls moyens pour qu'une partie de la bande de base numérique active l'émetteur RF, puis désactive celui-ci à la fin du paquet. En conséquence, l'émetteur reste uniquement activé lors de la transmission d'un des paquets susmentionnés. En d'autres termes, ce dispositif interrompt automatiquement toute transmission en cas d'absence d'information à transmettre ou de défaillance.

Mexico

Model No. AM1904: IFT:RCPPAAM20-0559

La operación de este equipo está sujeta a las siguientes dos condiciones:
(1) es posible que este equipo o dispositivo no cause interferencia perjudicial y
(2) este equipo o dispositivo debe aceptar cualquier interferencia, incluyendo la que pueda causar su operación no deseada.



▼ Wireless Charger (Qi)

IC ID: 26055-KEAG66CHX FCC ID: 2AEQT-KEAG66CHX

FCC Statement:
This device complies with Industry Canada licence-exempt RSS standard(s).
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.
Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:
(1) l'appareil ne doit pas produire de brouillage, et
(2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement:
This equipment complies with Industry Canada radiation exposure limits set forth for an uncontrolled environment.
Cet équipement est conforme à l'exposition aux rayonnements Industry Canada limites établies pour un environnement non contrôlé.

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

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, t he user is encouraged to
try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help important announcement Important

Note: Radiation Exposure Statement
This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

▼ **Data Communication System**

U.S.A.

⚠ CAUTION

Radio Frequency Radiation Exposure
This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines. This equipment should be installed and operated keeping the radiator at least 20cm or more away from person's body in normal use position.

Co-location

This transmitter must not be co-located or
operated in conjunction with any other antenna or transmitter.

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.

FCC

⚠ WARNING

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

Canada

Contains IC: 574B-DA39

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

(1) This device may not cause interference.
(2) This device must accept any interference, including interference that may cause undesired operation of the device.

CAUTION: Radio Frequency Radiation Exposure
This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment and meets RSS-102 of the IC radio frequency (RF) Exposure rules. This equipment should be installed and operated keeping the radiator at least 20cm or more away from person's body.

Declaration of Conformity

Contient IC: 574B-DA39

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation,Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

1) L'appareil ne doit pas produire de brouillage;
2) L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

ATTENTION: l'exposition aux rayonnements radiofréquence
- Cet équipement est conforme aux limites d'exposition aux rayonnements énoncées pour un environnement non contrôlé et respecte les règles d'exposition aux fréquences radioélectriques (RF) CNR-102 de l'IC. Cet équipement doit être installé et utilisé en gardant une distance de 20 cm ou plus entre le radiateur et le corps humain.

▼ Mazda Radar Cruise Control (MRCC)/Distance Recognition Support System (DRSS)/Smart Brake Support (SBS)

FCC ID: HYQDNMWR006

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.

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

Radiofrequency radiation exposure Information:
This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.
This equipment should be installed and operated with minimum distance of 20 cm between the radiator (antenna) and your body.
This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

NOTE:
This device complies with Industry Canada licence-exempt RSS standard(s). 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.

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment and meets RSS-102 of the IC radio
frequency (RF) Exposure rules. This equipment should be installed and operated keeping the radiator at least 20 cm or more away from person's body.

NOTE:
Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence.
L'exploitation est autorisée aux deux conditions suivantes:
(1) l'appareil ne doit pas produire de brouillage, et
(2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Cet équipement est conforme aux limites d'exposition aux rayonnements énoncées pour un environnement non contrôlé et respecte les règles d'exposition aux fréquences radioélectriques (RF) CNR-102 de l'IC.
Cet équipement doit être installé et utilisé en gardant une distance de 20 cm ou plus entre le dispositif rayonnant et le corps.

Declaration of Conformity

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.

9 Specifications

Technical information about your Mazda.

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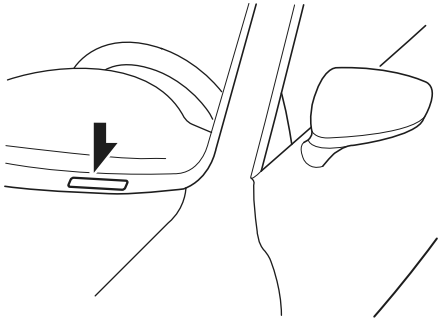
Identification Numbers

Vehicle Identification Number

The vehicle identification number legally identifies your vehicle.

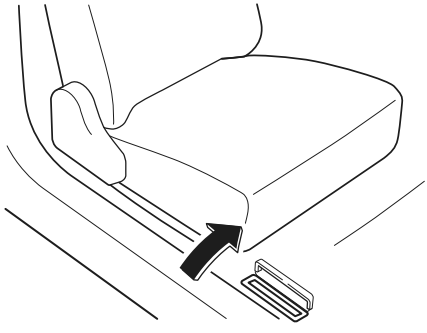
Dashboard

The number is on a plate attached to the left top side of the dashboard.

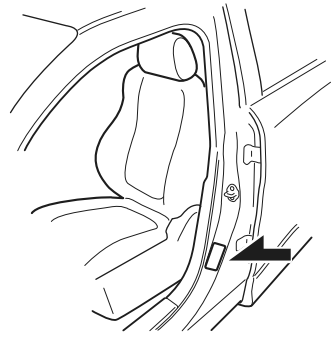


Chassis

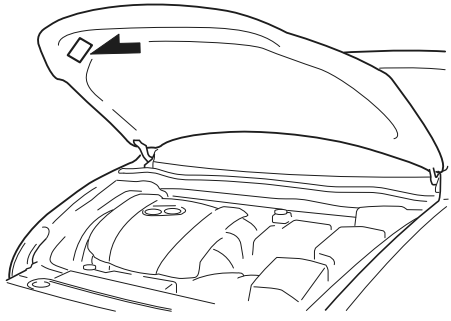
Open the cover shown in the figure to check the vehicle identification number.



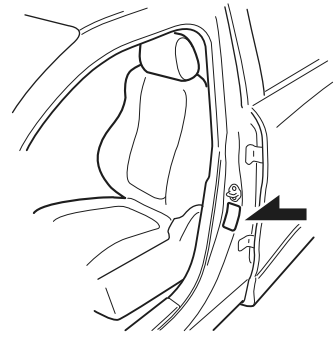
Motor Vehicle Safety Standard Label (U.S.A. and Canada)



Vehicle Emission Control Information Label (U.S.A. and Canada)

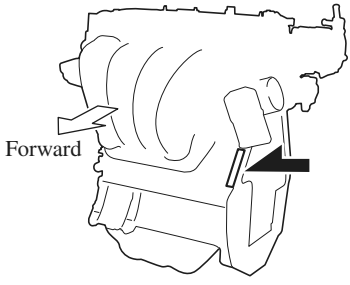


Tire Pressure Label



Identification Numbers

Engine Number



Engine

Item	SKYACTIV-G 2.5	SKYACTIV-G 2.5T
Type	DOHC-16V in-line, 4-cylinder	
Bore × Stroke	89.0 × 100.0 mm (3.50 × 3.94 in)	
Displacement	2,488.5 ml (2,488.5 cc)	
Compression ratio	13.0	10.5

Electrical System

Battery*1

Classification	U.S.A. and Canada	Mexico
SKYACTIV-G 2.5	S-95	55D23L (12V-60Ah/20HR)
SKYACTIV-G 2.5T	55D23L (12V-60Ah/20HR) or 75D23L (12V-65Ah/20HR)	

*1 The battery specification differs depending on the country or region. Check the battery installed on the vehicle and use a battery with an equal or higher performance. However, the performance of the battery may vary even among the same battery types, consult an Authorized Mazda Dealer for replacement.

Spark-plug

Classification		Specification	
SKYACTIV-G 2.5	U.S.A. and Canada	Mazda Genuine spark plug*1	P5SP-18110
	Mexico	Mazda Genuine spark plug*1	PE5R-18-110-A or PE5S-18-110
SKYACTIV-G 2.5T		Mazda Genuine spark plug*1	PY8V-18-110

*1 The spark plugs provide the SKYACTIV-G its optimum performance. Consult an Authorized Mazda Dealer for details.

⚠ 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		U.S.A. and Canada	Mexico
Engine oil		Refer to Recommended Oil on page 6-20.	
Coolant		FL-22 type	
Automatic transaxle fluid*1	SKYACTIV-G 2.5	Mazda Genuine ATF-A7	Mazda Genuine ATF-FZ
	SKYACTIV-G 2.5T	Mazda Genuine ATF-FZ	
Transfer case oil*2		Mazda Long Life Hypoid Gear Oil SG1	—
Rear differential oil*2		Mazda Long Life Hypoid Gear Oil SG1	—
Brake fluid		SAE J1703 or FMVSS116 DOT-3	

*1 Periodic replacement is unnecessary.
*2 Replacement is necessary when the component is submerged in water.

NOTE
Refer to Introduction on (page 6-2) for owner's responsibility in protecting your investment.

Capacities

(Approximate Quantities)

Item			U.S.A. and Canada	Mexico
Engine oil	SKYACTIV-G 2.5	With oil filter replacement	4.5 L (4.8 US qt, 4.0 Imp qt)	
		Without oil filter replacement	4.3 L (4.5 US qt, 3.8 Imp qt)	
	SKYACTIV-G 2.5T	With oil filter replacement	4.8 L (5.1 US qt, 4.2 Imp qt)	
		Without oil filter replacement	4.6 L (4.9 US qt, 4.0 Imp qt)	
Coolant	SKYACTIV-G 2.5		7.5 L (7.9 US qt, 6.6 Imp qt)	7.7 L (8.1 US qt, 6.8 Imp qt)
	SKYACTIV-G 2.5T		8.5 L (9.0 US qt, 7.5 Imp qt)	
Automatic transaxle fluid	SKYACTIV-G 2.5		7.1 L (7.5 US qt, 6.2 Imp qt)	7.8 L (8.2 US qt, 6.9 Imp qt)
	SKYACTIV-G 2.5T		8.0 L (8.5 US qt, 7.0 Imp qt)	
Transfer case oil	SKYACTIV-G 2.5		0.45 L (0.48 US qt, 0.40 Imp qt)	—
	SKYACTIV-G 2.5T		0.40 L (0.42 US qt, 0.35 Imp qt)	—
Rear differential oil			0.35 L (0.37 US qt, 0.31 Imp qt)	—
Fuel tank			58.0 L (15.3 US gal, 12.8 Imp gal)	56.0 L (14.8 US gal, 12.3 Imp gal)

Check oil and fluid levels with dipsticks or reservoir gauges.

Dimensions

Item	Vehicle specification
Overall length	4,575 mm (180.1 in)
Overall width	1,845 mm (72.6 in)
Overall height	1,675 mm (65.9 in)
Front tread	1,596 mm (62.8 in)
Rear tread	1,596 mm (62.8 in)
Wheelbase	2,698 mm (106.2 in)

Vehicle Specification

Weights

U.S.A. and Canada

SKYACTIV-G 2.5

Item		Weight
GVWR (Gross Vehicle Weight Rating)		2,143 kg (4,724 lbs)
GAWR (Gross Axle Weight Rating)	Front	1,100 kg (2,425 lbs)
	Rear	1,043 kg (2,299 lbs)

SKYACTIV-G 2.5T

Item		Weight
GVWR (Gross Vehicle Weight Rating)		2,190 kg (4,828 lbs)
GAWR (Gross Axle Weight Rating)	Front	1,145 kg (2,524 lbs)
	Rear	1,045 kg (2,304 lbs)

Mexico

SKYACTIV-G 2.5

Item		Weight	
		Without moonroof	With moonroof
GVW (Gross Vehicle Weight)	Total	2,060 kg (4,542 lbs)	2,110 kg (4,652 lbs)
	Front	1,035 kg (2,282 lbs)	1,045 kg (2,304 lbs)
	Rear	1,025 kg (2,260 lbs)	1,065 kg (2,348 lbs)
GAW (Permissible axle load)	Front	1,055 kg (2,326 lbs)	1,065 kg (2,348 lbs)
	Rear	1,105 kg (2,436 lbs)	1,145 kg (2,524 lbs)

SKYACTIV-G 2.5T

Item		Weight
GVW (Gross Vehicle Weight)	Total	2,115 kg (4,663 lbs)
	Front	1,100 kg (2,425 lbs)
	Rear	1,015 kg (2,238 lbs)
GAW (Permissible axle load)	Front	1,125 kg (2,480 lbs)
	Rear	1,090 kg (2,403 lbs)

Light Bulbs

Exterior light

All the light bulbs are the LED type.
The LED bulb cannot be replaced. Consult an Authorized Mazda Dealer when the replacement is necessary.

Interior light

Light bulb		Wattage	UN-R*1
Overhead light (Front)/Map lights	LED type	LED	—
	Bulb type	8	—
Rear map lights	LED type	LED	—
	Bulb type	8	—
Vanity mirror lights*	LED type	LED	—
	Bulb type	2	—
Ambient lights*		LED	—
Luggage compartment light	LED type	LED	—
	Bulb type	8	—

*1 UN-R stands for United Nations Regulation.

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 Pressure Label on page 9-3.
Refer to Tire Inflation Pressure on page 6-35.

Standard tire

(U.S.A. and Canada)

Tire size	Front	Rear
P225/65R17 100H	230 kPa (34 psi)	230 kPa (34 psi)
P225/55R19 99V	240 kPa (35 psi)	240 kPa (35 psi)

(Mexico)

Tire size		Up to 3 persons	—Full load
225/65R17 102V	Front	230 kPa (2.3 bar, 33 psi)	260 kPa (2.6 bar, 38 psi)
	Rear	230 kPa (2.3 bar, 33 psi)	280 kPa (2.8 bar, 41 psi)
225/55R19 99V	Front	250 kPa (2.5 bar, 36 psi)	260 kPa (2.6 bar, 38 psi)
	Rear	250 kPa (2.5 bar, 36 psi)	290 kPa (2.9 bar, 42 psi)

1 person's weight: About 75 kg

Temporary spare tire

(U.S.A. and Canada)

Tire size	Inflation pressure
T145/90D16 106M*1	420 kPa (60 psi)
T155/90D17 101M*2	420 kPa (60 psi)

*1 SKYACTIV-G 2.5
*2 SKYACTIV-G 2.5T

(Mexico)

Tire size	Inflation pressure
T155/80R17 100M	420 kPa (4.2 bar, 60 psi)

Lug nut tightening torque

When installing a tire, tighten the lug nut to the following torque.
108—147 N·m (12—14 kgf·m, 80—108 ft·lbf)

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