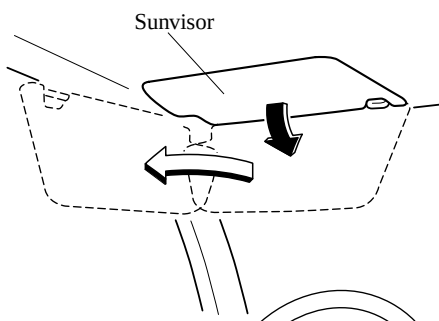


Interior Equipment

Sunvisors

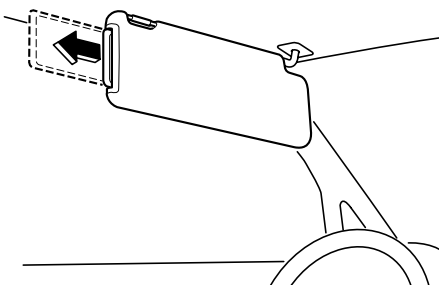
When you need a sunvisor, lower it for use in front or swing it to the side.



▼ 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.

Interior Features

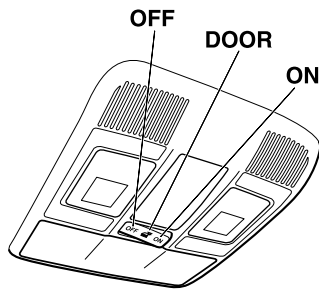
Interior Equipment

Interior Lights

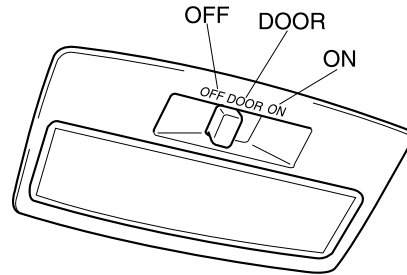
Overhead Lights

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

With Map Lights



Without Map Lights



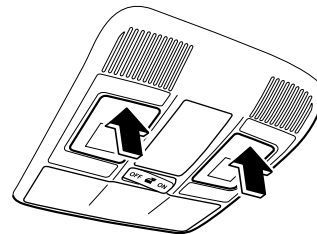
NOTE

(With map lights)

The map lights and rear overhead light also turn on and off when the front overhead light switch is operated.

Map Lights*

When the overhead light switch is in the door or off position, press the lens to illuminate the map lights, and then press the lens again to turn them off.



NOTE

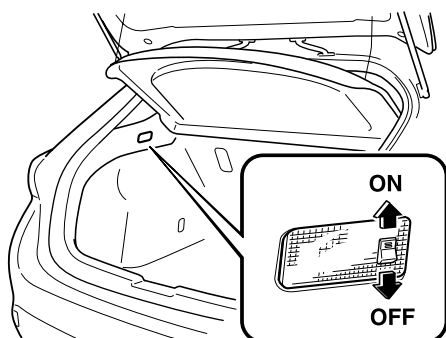
The map lights will not turn off even if the lens is pressed in the following cases:

- 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.

*Some models. **5-137**

Interior Equipment

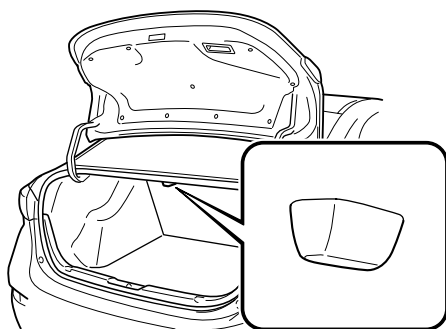
Luggage Compartment Lights (5-door)



Switch Position	Luggage Compartment Light
OFF	Light off
ON	Light on when the liftgate is open

Trunk Light (4-door)

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



NOTE

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

▼ Illuminated Entry System

When the illuminated entry system operates, the overhead light (switch is in the DOOR position) turn on for:

- About 30 seconds after the driver's door is unlocked and the ignition is switched off.
- About 15 seconds after all doors are closed and the ignition is switched off.
- About 5 seconds after all doors are closed and the ignition is switched off when the key is out of the vehicle.
- Illuminates for about 15 seconds when the ignition is returned from ACC to OFF.

The light also turns off when:

- The ignition is switched on and all doors are closed.
- The driver's door is locked.

NOTE

• **Battery saver**

If any door is left open with the overhead light switch in the DOOR position, or the liftgate/trunk lid is left open, the overhead light or luggage compartment light/trunk light turns off after about 30 minutes to prevent battery depletion.

- The operation of the illuminated entry system can be changed.

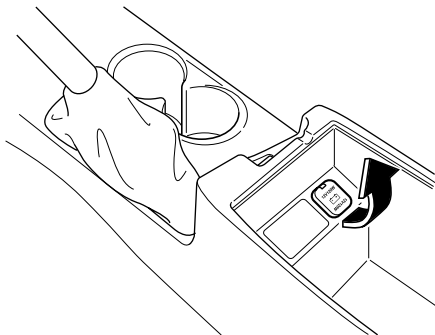
Refer to Personalization Features on page 9-10.

Accessory Sockets

Only use genuine Mazda accessories or the equivalent requiring no greater than 120 W (DC 12 V, 10 A).

Type A

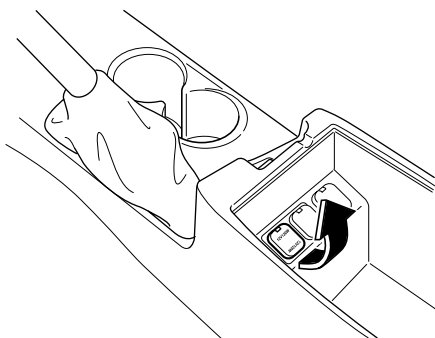
The accessory sockets can be used regardless of whether the ignition is on or off.



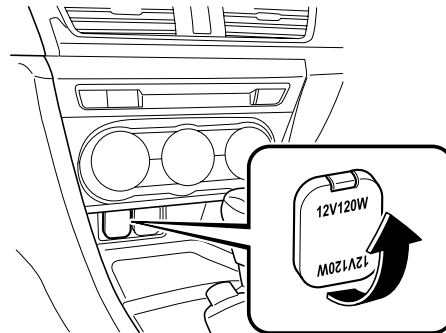
Type B*

The ignition must be switched to ACC or ON.

With CD Player



Without CD Player



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.

*Some models. **5-139**

Interior Equipment

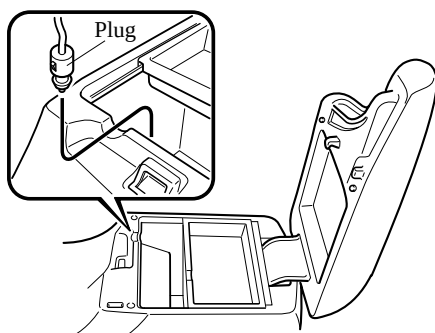
- Noise may occur on the audio playback depending on the device connected to the accessory socket.
- Depending on the device connected to the accessory socket, the vehicle's electrical system may be affected, which could cause the warning light to illuminate. Disconnect the connected device and make 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.



Cup Holder

! WARNING

Never use a cup holder to hold hot liquids while the vehicle is moving:

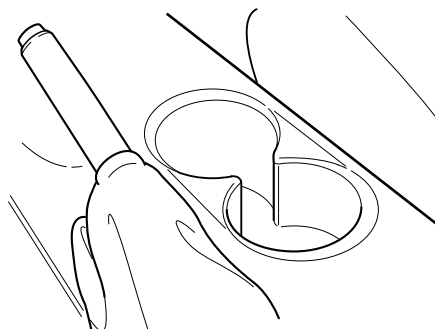
Using a cup holder to hold hot liquids while the vehicle is moving is dangerous. If the contents spill, you could be scalded.

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

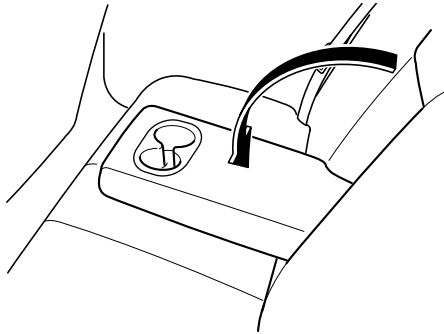


Interior Features

Interior Equipment

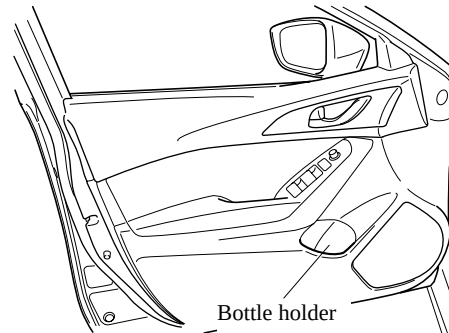
▼ Rear*

The rear cup holder is on the rear center armrest.



Bottle Holder

Bottle holders are on the inside of the doors.



⚠ CAUTION

Do not use the bottle holders for containers without caps. The contents may spill when the door is opened or closed.

*Some models. **5-141**

Interior Equipment

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.

Do not put articles in storage spaces with no lid:

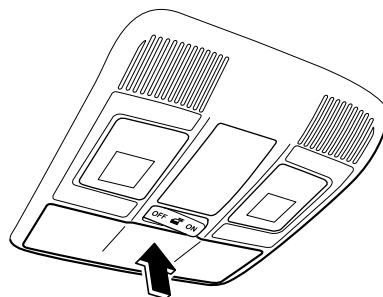
Putting articles in storage spaces with no lid is dangerous as they could be thrown around the cabin if the vehicle is suddenly accelerated and cause injury depending on how the article is stored.

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.

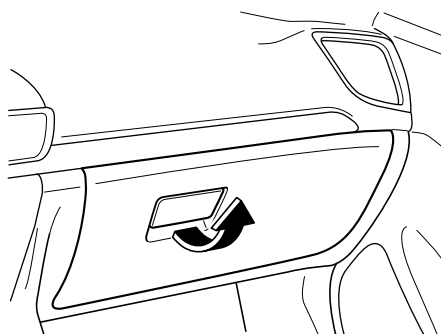
▼ Overhead Console*

This console box is designed to store eyeglasses or other accessories. Push and release to open.



▼ Glove Compartment

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

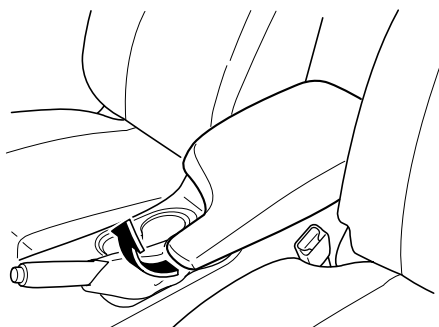


To close the glove compartment, firmly press in the center of the glove compartment lid.

Interior Equipment

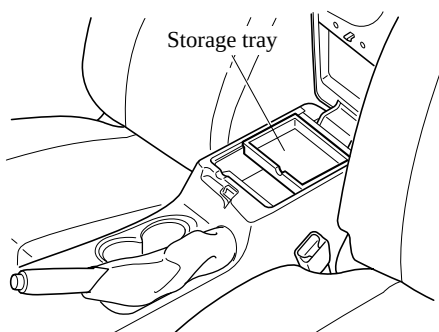
▼ Center Console

To open, pull the release latch.



Storage tray

The storage tray can be removed.



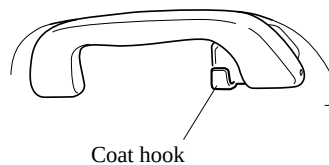
▼ Rear Coat Hooks

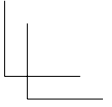
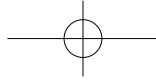
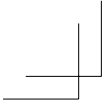
! WARNING

Never hang heavy or sharp objects on the assist grips and coat hooks:

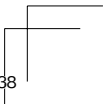
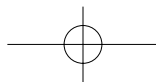
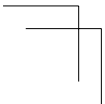
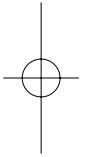
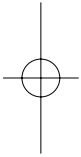
Hanging heavy or sharp-ended objects such as a coat hanger from the assist grips or coat hooks is dangerous as they can fly off and hit an occupant in the cabin if a curtain air bag was to deploy, which could result in serious injury or death.

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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Essential Information

Introduction

Be extremely careful and prevent injury to yourself and others or damage to your vehicle when using this manual for inspection and maintenance.

If you are unsure about any procedure it describes, we strongly urge you to have a reliable and qualified service shop perform the work, preferably an Authorized Mazda Dealer.

Factory-trained Mazda technicians and genuine Mazda parts are best for your vehicle. Without this expertise and the parts that have been designed and made especially for your Mazda, inadequate, incomplete, and insufficient servicing may result in problems. This could lead to vehicle damage or an accident and injuries.

For expert advice and quality service, consult an Authorized Mazda Dealer.

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.

Maintenance and Care

Essential Information

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 (page 6-13).

Scheduled Maintenance

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. (Puerto Rico residents follow Schedule 2.)

Vehicles using Engine Oil Flexible Maintenance

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 Schedule 2 with engine oil fixed maintenance.

Once engine oil flexible maintenance is selected, 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 mark in the instrument cluster. Change the oil as soon as possible within the next 500 km (250 miles) or 15 days. Refer page 6-13 for the details. Mazda Genuine 0W-20 Oil and Castrol® 0W-20 Oil are required to achieve optimum performance.

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.*

Maintenance and Care

Scheduled Maintenance

▼ Schedule 1

U.S.A. residents - Engine oil flexible maintenance interval

Use when the maintenance monitor for “Oil Change” is set to “Flexible”. For details, see maintenance monitor. (page 6-13)

Maintenance Interval		Number of months or kilometers (miles), whichever comes first.								
		Months	12	24	36	48	60	72	84	96
		×1000 km	16	32	48	64	80	96	112	128
		×1000 miles	10	20	30	40	50	60	70	80
ENGINE										
Drive belts				I			I			
Engine oil & filter* ¹		Replace when indicator is ON. (Max interval:12 months/16,000km (10,000 miles))								
COOLING SYSTEM										
Engine coolant	FL22 type* 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.								
	Others	Replace at first 96,000 km (60,000 miles) or 4 years; after that, every 2 years.								
FUEL SYSTEM										
Air filter		Replace when any equivalent timing of replacing engine oil. (Max interval:36 months/60,000km (37,500 miles))								
Fuel lines and hoses* ³			I		I		I		I	
Hoses and tubes for emission* ³					I				I	
IGNITION SYSTEM										
Spark plugs		Replace every 120,000 km (75,000 miles).								
CHASSIS and BODY										
Brake lines, hoses and connections			I		I		I		I	
Disc brakes		I	I	I	I	I	I	I	I	
Tire (Rotation)		Rotate every 8,000 km (5,000 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				I	
AIR CONDITIONER SYSTEM										
Cabin air filter		Replace when any equivalent timing of replacing engine oil. (Max interval:24 months/48,000km (30,000 miles))								

Scheduled Maintenance

Chart symbols:

I: Inspect: Inspect and clean, repair, adjust, fill up, or replace if necessary.

T: Tighten

Remarks:

- *1 The engine oil and filter must be changed at least once a year or within 16,000km(10,000 miles) since last engine oil and filter change. The system must be reset whenever replacing the engine oil regardless of the message/wrench mark display.
- *2 Use FL22 type coolant in vehicles with the inscription "FL22" on the radiator cap itself or the surrounding area. Use FL22 when replacing the coolant.
- *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.

Maintenance and Care

Scheduled Maintenance

U.S.A. residents - Fixed maintenance interval

Use when the maintenance monitor for “Oil Change” is set to “Fixed”. For details, see maintenance monitor. (page 6-13)

Maintenance Interval	Number of months or kilometers (miles), whichever comes first.								
	Months	6	12	18	24	30	36	42	48
	×1000 km	12	24	36	48	60	72	84	96
	×1000 miles	7.5	15	22.5	30	37.5	45	52.5	60
ENGINE									
Drive belts						I			
Engine oil & filter		R	R	R	R	R	R	R	R
COOLING SYSTEM									
Engine coolant	FL22 type*1	Replace at first 192,000 km (120,000 miles) or 10 years; after that, every 96,000 km (60,000 miles) or 5 years.							
	Others	Replace at first 96,000 km (60,000 miles) or 4 years; after that, every 2 years.							
FUEL SYSTEM									
Air filter						R			
Fuel lines and hoses*2					I				I
Hoses and tubes for emission*2									I
IGNITION SYSTEM									
Spark plugs		Replace every 120,000 km (75,000 miles).							
CHASSIS and BODY									
Brake lines, hoses and connections					I				I
Disc brakes			I		I		I		I
Tire (Rotation)*3		Rotate every 12,000 km (7,500 miles).							
Steering operation and linkages					I				I
Front and rear suspension, ball joints and wheel bearing axial play					I				I
Driveshaft dust boots					I				I
Bolts and nuts on chassis and body					T				T
Exhaust system and heat shields		Inspect every 72,000 km (45,000 miles) or 5 years.							
All locks and hinges		L	L	L	L	L	L	L	L
AIR CONDITIONER SYSTEM									
Cabin air filter					R				R

Chart symbols:

I: Inspect: Inspect and clean, repair, adjust, fill up, or replace if necessary.

R: Replace

L: Lubricate

T: Tighten

Scheduled Maintenance

Remarks:

- *1 Use FL22 type coolant in vehicles with the inscription “FL22” on the radiator cap itself or the surrounding area.
Use FL22 when replacing the coolant.
- *2 According to state/provincial and federal regulations, failure to perform maintenance on these items will not void your emissions warranties. However, Mazda recommends that all maintenance services be performed at the recommended time or mileage/kilometer period to ensure long-term reliability.
- *3 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 8,000km (5,000 miles) to help increase tire life and distribute wear more evenly.

Maintenance and Care

Scheduled Maintenance

▼ Schedule 2

U.S.A. (severe driving conditions) and Puerto Rico residents

Maintenance Interval		Number of months or kilometers (miles), whichever comes first.												
		Months	4	8	12	16	20	24	28	32	36	40	44	48
		×1000 km	8	16	24	32	40	48	56	64	72	80	88	96
		×1000 miles	5	10	15	20	25	30	35	40	45	50	55	60
ENGINE														
Drive belts								I						
Engine oil & filter	Flexible* ¹	Replace when indicator is ON. (Max interval:12 months/16,000km (10,000 miles))												
	Fixed	R	R	R	R	R	R	R	R	R	R	R	R	R
COOLING SYSTEM														
Engine coolant	FL22 type* 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.												
	Others	Replace at first 96,000 km (60,000 miles) or 4 years; after that, every 2 years.												
Engine coolant level		I	I	I	I	I	I	I	I	I	I	I	I	I
FUEL SYSTEM														
Air filter	U.S.A. (severe driving conditions)							R						
	Puerto Rico						R							R
Fuel lines and hoses* ³							I							I
Hoses and tubes for emission* ³														I
IGNITION SYSTEM														
Spark plugs		Replace every 120,000 km (75,000 miles).												
ELECTRICAL SYSTEM														
Function of all lights		I	I	I	I	I	I	I	I	I	I	I	I	I
CHASSIS and BODY														
Brake lines, hoses and connections							I							I
Brake and clutch fluid level		I	I	I	I	I	I	I	I	I	I	I	I	I
Disc brakes				I			I			I				I
Tire (Rotation)		Rotate every 8,000 km (5,000 miles).												
Tire inflation pressure and tire wear		I	I	I	I	I	I	I	I	I	I	I	I	I
Steering operation and linkages							I							I
Front and rear suspension, ball joints and wheel bearing axial play							I							I
Driveshaft dust boots							I							I
Bolts and nuts on chassis and body							T							T

Scheduled Maintenance

Maintenance Interval	Number of months or kilometers (miles), whichever comes first.												
	Months	4	8	12	16	20	24	28	32	36	40	44	48
	×1000 km	8	16	24	32	40	48	56	64	72	80	88	96
	×1000 miles	5	10	15	20	25	30	35	40	45	50	55	60
Exhaust system and heat shields	Inspect every 72,000 km (45,000 miles) or 5 years.												
All locks and hinges	L	L	L	L	L	L	L	L	L	L	L	L	L
Washer fluid level	I	I	I	I	I	I	I	I	I	I	I	I	I
AIR CONDITIONER SYSTEM													
Cabin air filter	Replace every 40,000 km (25,000 miles) or 2 years.												

Chart symbols:

I: Inspect: Inspect and clean, repair, adjust, fill up, or replace if necessary.

R: Replace

L: Lubricate

T: Tighten

Remarks:

*1 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 16,000km (10,000 miles) since last engine oil and filter change. The system must be reset whenever replacing the engine oil regardless of the message/wrench mark display.

*2 Use FL22 type coolant in vehicles with the inscription "FL22" on the radiator cap itself or the surrounding area. Use FL22 when replacing the coolant.

*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.

Maintenance and Care

Scheduled Maintenance

Canada residents

Maintenance Interval	Number of months or kilometers (miles), whichever comes first.												
	Months	4	8	12	16	20	24	28	32	36	40	44	48
	×1000 km	8	16	24	32	40	48	56	64	72	80	88	96
	×1000 miles	5	10	15	20	25	30	35	40	45	50	55	60
ENGINE													
Drive belts								I					
Engine oil & filter		R	R	R	R	R	R	R	R	R	R	R	R
COOLING SYSTEM													
Engine coolant	FL22 type* ¹	Replace at first 192,000 km (120,000 miles) or 10 years; after that, every 96,000 km (60,000 miles) or 5 years.											
	Others	Replace at first 96,000 km (60,000 miles) or 4 years; after that, every 2 years.											
Engine coolant level		I	I	I	I	I	I	I	I	I	I	I	I
FUEL SYSTEM													
Air filter								R					
Fuel lines and hoses* ²							I						I
Hoses and tubes for emission* ²													I
IGNITION SYSTEM													
Spark plugs		Replace every 120,000 km (75,000 miles).											
ELECTRICAL SYSTEM													
Function of all lights		I	I	I	I	I	I	I	I	I	I	I	I
CHASSIS and BODY													
Brake lines, hoses and connections							I						I
Brake and clutch fluid level		I	I	I	I	I	I	I	I	I	I	I	I
Disc brakes				I			I			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
Front and rear suspension, ball joints and wheel bearing axial play							I						I
Driveshaft dust boots							I						I
Bolts and nuts on chassis and body							T						T
Body condition (for rust, corrosion and perforation)				I			I			I			I
Exhaust system and heat shields		Inspect every 72,000 km (45,000 miles) or 5 years.											
All locks and hinges		L	L	L	L	L	L	L	L	L	L	L	L
Washer fluid level		I	I	I	I	I	I	I	I	I	I	I	I

Scheduled Maintenance

Maintenance Interval	Number of months or kilometers (miles), whichever comes first.												
	Months	4	8	12	16	20	24	28	32	36	40	44	48
	×1000 km	8	16	24	32	40	48	56	64	72	80	88	96
	×1000 miles	5	10	15	20	25	30	35	40	45	50	55	60
AIR CONDITIONER SYSTEM													
Cabin air filter		Replace every 40,000 km (25,000 miles) or 2 years.											

Chart symbols:

I: Inspect: Inspect and clean, repair, adjust, fill up, or replace if necessary.

R: Replace

L: Lubricate

T: Tighten

Remarks:

*1 Use FL22 type coolant in vehicles with the inscription "FL22" on the radiator cap itself or the surrounding area.
Use FL22 when replacing the coolant.

*2 According to state/provincial and federal regulations, failure to perform maintenance on these items will not void your emissions warranties. However, Mazda recommends that all maintenance services be performed at the recommended time or mileage/kilometer period to ensure long-term reliability.

Scheduled Maintenance

Maintenance Monitor

▼ Maintenance Monitor (Vehicles with type B Audio)

1. Select the  icon on the home screen to display the “Applications” screen.
2. Select the “Maintenance” to display the maintenance list screen.
3. Switch the tab and select the setting item you want to change.

You can customize settings in the setup display as follows:

Tab	Item	Explanation
Scheduled Maintenance	Setting interval	Notification can be switched on/off.
	Time (months)	Displays the time or distance until maintenance is due. Select this item to set the maintenance period.
	Distance (mile or km)	“Scheduled Maintenance Due!” is displayed in red and the wrench mark in the instrument cluster will be illuminated when the remaining distance is less than 500 km (250 miles), or the remaining number of days is less than 15 (whichever comes first).
	Reset	Resets the time and distance to the initial values. Once the system turns on, it needs to be reset whenever carrying out maintenance.
Tire Rotation	Setting interval	Notification can be switched on/off.
	Distance (mile or km)	Displays the distance until tire rotation is due. Select this item to set the tire rotation distance. “Tire Rotation Due!” is displayed in red and the wrench mark in the instrument cluster will be illuminated when the remaining distance is less than 500 km (250 miles).
	Reset	Resets the remaining distance to the initial value. Once the system turns on, it needs to be reset whenever rotating the tires.

Scheduled Maintenance

Tab	Item	Explanation
Oil Change	Setting interval	Oil replacement period can be selected from the flexible setting or fixed setting, or it can be set to non-display. The flexible setting is available only in the United States and Puerto Rico. Once engine oil flexible maintenance is selected, the vehicle calculates the remaining oil life based on the engine operating conditions. The vehicle lets you know when an oil change is due by illuminating the wrench mark in the instrument cluster. Mazda Genuine 0W-20 oil and Castrol® 0W-20 oil are required to achieve optimum performance.
	Distance (mile or km) (Displays only in fixed setting)	Displays the distance until the oil replacement is due. Select this item to set the oil replacement distance. “Oil Change Due!” is displayed in red and the wrench mark in the instrument cluster will be illuminated when the remaining distance is less than 500 km (250 miles).
	Oil life (%) (Displays only in flexible setting)	Displays the engine oil life until the oil replacement is due. “Oil Change Due!” is displayed in red and the wrench mark in the instrument cluster will be illuminated when remaining oil life distance is less than 500 km (250 mile), or remaining days are less than 15 (whichever comes first).
	Reset	In flexible setting: Resets the remaining oil life to 100%. In fixed setting: Resets the remaining distance to the initial value. Once the Flexible Oil Maintenance Setting is selected, the system must be reset whenever replacing the engine oil.

▼ Maintenance Monitor (Vehicles without type B Audio)

“Oil Change” with a flexible setting^{*1} is available. Consult your Authorized Mazda Dealer when you want to change the setting^{*2}. Once the system turns on, the wrench mark in the instrument cluster will be illuminated when remaining oil life becomes less than 500 km (250 mile), or remaining days are less than 15 (whichever comes first).

Reset method

Press and hold the TRIP button with the ignition switched off, then switch it on. Keep pressing the TRIP button for more than 5 seconds. The master warning light will flash for a few seconds when the reset is completed.

^{*1} The flexible setting is available in the United States and Puerto Rico. Based on the engine operating conditions, the onboard computer in your vehicle calculates the remaining oil life. Mazda Genuine 0W-20 oil and Castrol® 0W-20 oil are required to achieve optimum calculation performance.

^{*2} Once the Oil Maintenance Setting is selected, the system must be reset whenever replacing the engine oil.

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 and clutch fluid level (page 6-23)
- Engine coolant level (page 6-21)
- Engine oil level (page 6-20)
- Washer fluid level (page 6-23)

At Least Monthly

- Tire inflation pressures (page 6-32)

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 6-21)
- 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.

Owner Maintenance

WARNING

Do not perform maintenance work if you lack sufficient knowledge and experience or the proper tools and equipment to do the work. Have maintenance work done by a qualified technician:

Performing maintenance work on a vehicle is dangerous if not done properly. You can be seriously injured while performing some maintenance procedures.

If you must run the engine while working under the hood, make certain that you remove all jewelry (especially rings, bracelets, watches, and necklaces) and all neckties, scarves, and similar loose clothing before getting near the engine or cooling fan which may turn on unexpectedly:

Working under the hood with the engine running is dangerous. It becomes even more dangerous when you wear jewelry or loose clothing.

Either can become entangled in moving parts and result in injury.



Switch the ignition to 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

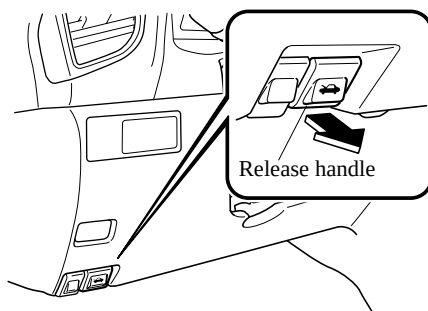
WARNING

Always check that the hood is closed and securely locked:

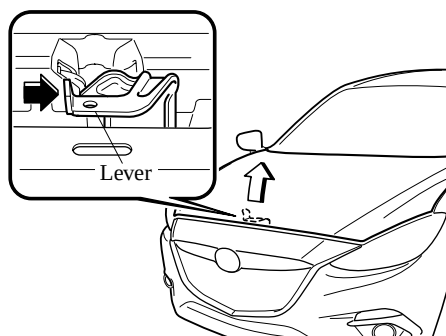
A hood that is not closed and securely locked is dangerous as it could fly open while the vehicle is moving and block the driver's vision which could result in a serious accident.

▼ Opening the Hood

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



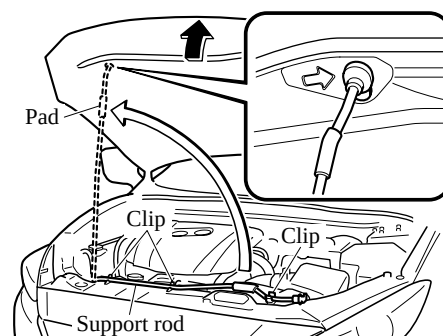
2. Insert your hand into the hood opening, slide the latch lever to the right, and lift up the hood.



NOTE

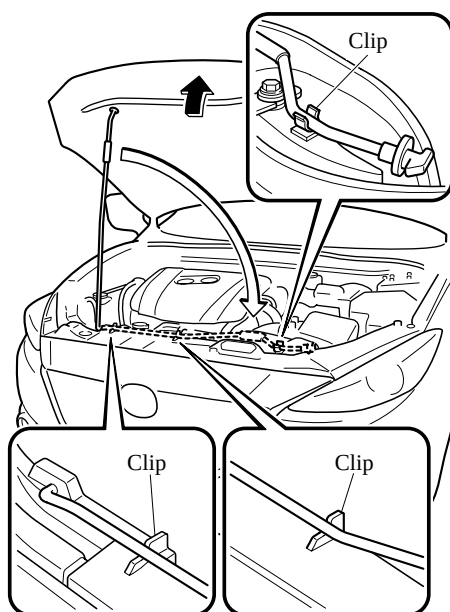
The lever is located a little to the left of center when facing the vehicle.

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.

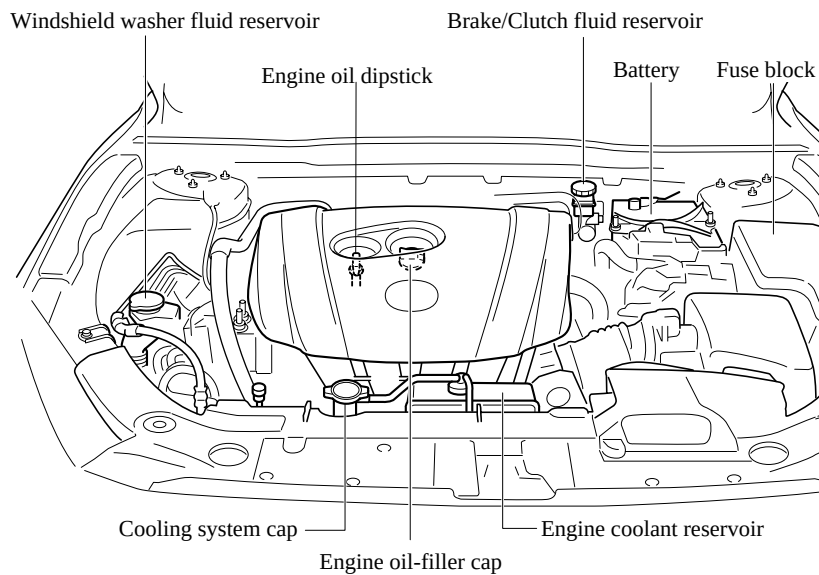


3. Lower the hood slowly to a height of about 20 cm (7.9 in) above its closed position and then let it drop.

⚠ 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



Owner Maintenance

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, and Puerto Rico

Use SAE 0W-20 engine oil.

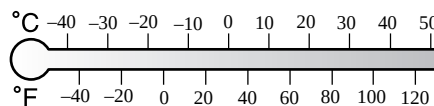
Mazda Genuine Oil is used in your Mazda vehicle. Mazda Genuine 0W-20 Oil is required to achieve optimum fuel economy.

For maintenance service, Mazda recommends Mazda Genuine Parts and Castrol® (U.S.A. only).



Only use SAE 0W-20 oil "Certified For Gasoline Engines" by the American Petroleum Institute (API).

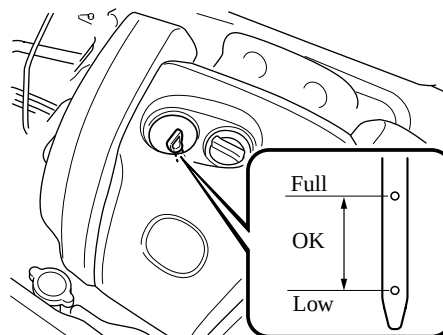
Oil with this trademark symbol conforms to the current engine and emission system protection standards and fuel economy requirements of the International Lubricant Standardization and Approval Committee (ILSAC), comprised of U.S. and Japanese automobile manufacturers.



0W-20

▼ 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.



Owner Maintenance

5. Pull it out again and examine the level. The level is normal if it is between Low and Full. If it is near or below Low, add enough oil to bring the level to Full.

CAUTION

Do not add engine oil over Full. This may cause engine damage.

6. Make sure the O-ring on the dipstick is positioned properly before reinserting the dipstick.
7. Reinsert the dipstick fully.

Engine Coolant

▼ Inspecting Coolant Level

WARNING

Do not use a match or live flame in the engine compartment. DO NOT ADD COOLANT WHEN THE ENGINE IS HOT:

A hot engine is dangerous. If the engine has been running, parts of the engine compartment can become very hot. You could be burned. Carefully inspect the engine coolant in the coolant reservoir, but do not open it.



Switch the ignition to 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.

NOTE

Changing the coolant should be done by

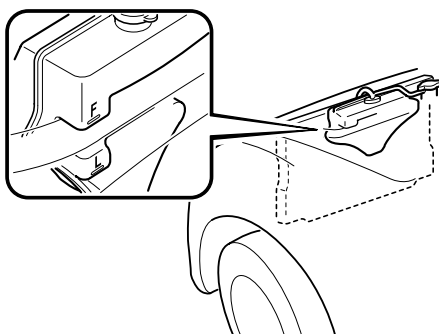
Owner Maintenance

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.



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.

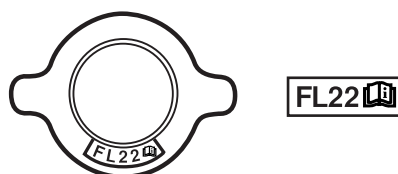
Securely tighten the coolant reservoir tank cap after adding coolant.

CAUTION

- Radiator coolant will damage paint. Rinse it off quickly if spilled.
- Use only soft (demineralized) water in the coolant mixture. Water that contains minerals will cut down on the coolant's effectiveness.
- Do not add only water. Always add a proper coolant mixture.
- The engine has aluminum parts and must be protected by an ethylene-glycol-based coolant to prevent corrosion and freezing.
- DO NOT USE coolants Containing Alcohol, methanol, Borate or Silicate. These coolants could damage the cooling system.
- DO NOT MIX alcohol or methanol with the coolant. This could damage the cooling system.
- Do not use a solution that contains more than 60% antifreeze. This would reduce effectiveness.

NOTE

If the "FL22" mark is shown on or near the cooling system cap, it is recommended to use Mazda Genuine FL22 engine coolant.



If the coolant reservoir is empty or new coolant is required frequently, consult an Authorized Mazda Dealer.

Brake/Clutch Fluid

▼ Inspecting Brake/Clutch Fluid Level

! WARNING

If the brake/clutch fluid level is low, have the brakes inspected:

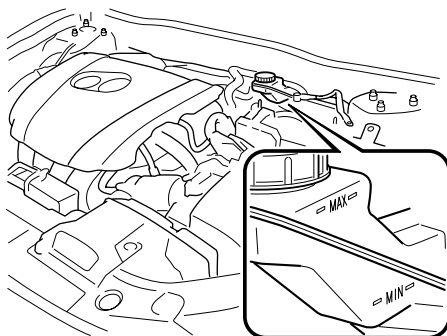
A low brake/clutch fluid level is dangerous.

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.

The brakes and clutch draw fluid from the same reservoir.

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 and clutch linings. If it is excessively low, have the brake/clutch 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:

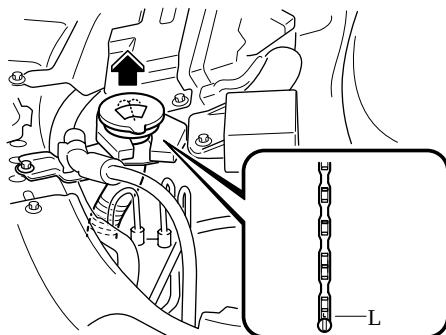
Operating your vehicle in temperatures below 4 degrees C (40 degrees F) using washer fluid without anti-freeze protection is dangerous as it could cause impaired windshield vision and result in an accident. In cold weather, always use washer fluid with anti-freeze protection.

NOTE

State or local regulations may restrict the use of volatile organic compounds (VOCs), which are commonly used as anti-freeze agents in washer fluid. A washer fluid with limited VOC content should be used only if it provides adequate freeze resistance for all regions and climates in which the vehicle will be operated.

Owner Maintenance

Inspect fluid level in the washer fluid reservoir; add fluid if necessary.



Use plain water if washer fluid is unavailable.
But use only washer fluid in cold weather to prevent it from freezing.

NOTE

Front and rear washer fluid is supplied from the same reservoir.

Body Lubrication

All moving points of the body, such as door and hood hinges and locks, should be lubricated each time the engine oil is changed. Use a nonfreezing lubricant on locks during cold weather.

Make sure the hood's secondary latch keeps the hood from opening when the primary latch is released.

Owner Maintenance

Wiper Blades

⚠ CAUTION

- *Hot waxes applied by automatic car washers have been known to affect the wiper's ability to clean windows.*
- *To prevent damage to the wiper blades, 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 your Mazda, make sure the wiper lever is in the OFF position.

Contamination of either the windshield or the blades with foreign matter can reduce wiper effectiveness. Common sources are insects, tree sap, and hot wax treatments used by some commercial car washes.

If the blades are not wiping properly, clean the window and blades with a good cleaner or mild detergent; then rinse thoroughly with clean water. Repeat if necessary.

▼ Replacing Windshield Wiper Blades

When the wipers no longer clean well, the blades are probably worn or cracked. Replace them.

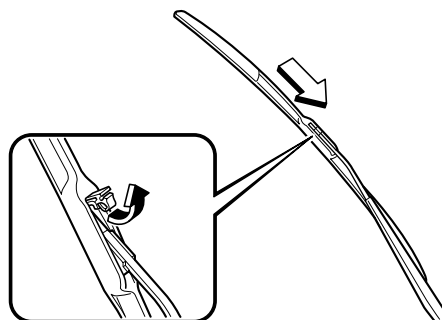
⚠ CAUTION

To prevent damage to the wiper arms and other components, do not try to sweep the wiper arm by hand.

NOTE

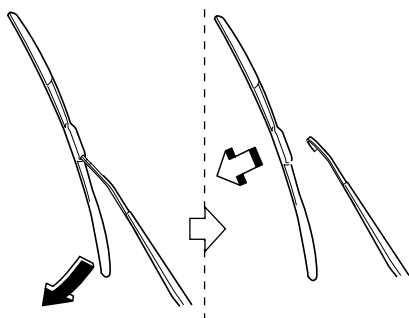
To prevent damage to the wiper arm blades when raising both the driver and passenger side wiper arms, raise the driver side wiper arm first. Conversely, when setting down the wiper arms, set the passenger side wiper arm down first.

1. Raise the wiper arm.
2. Open the clip and slide the blade assembly in the direction of the arrow.



Owner Maintenance

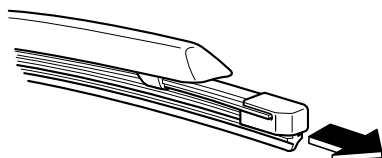
3. Tilt the blade assembly and remove it from the arm.



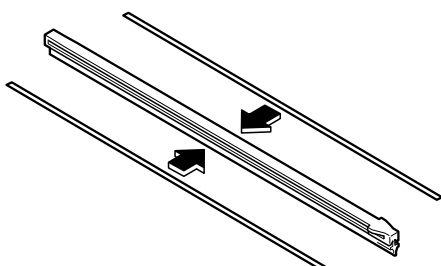
CAUTION

To prevent damage to the windshield let the wiper arm down easily, do not let it slap down on the windshield.

4. Pull down the blade rubber and slide it out of blade holder.



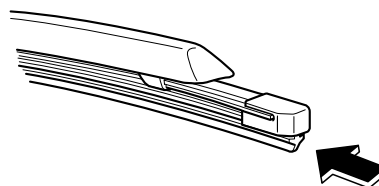
5. Remove the metal stiffeners from each blade rubber and install them in the new blade.



CAUTION

- Do not bend or discard the stiffeners. You need to use them again.
- If the metal stiffeners are switched, the blade's wiping efficiency could be reduced.
So do not use the driver's side metal stiffeners on the passenger's side, or vice versa.
- Be sure to reinstall the metal stiffeners in the new blade rubber so that the curve is the same as it was in the old blade rubber.

6. Carefully insert the new blade rubber. Then install the blade assembly in the reverse order of removal.



▼ Replacing Rear Window Wiper Blade (5-Door)

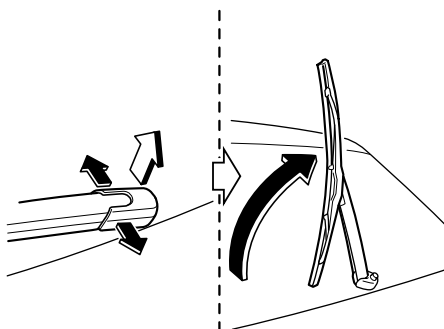
When the wiper no longer cleans well, the blade is probably worn or cracked. Replace it.

CAUTION

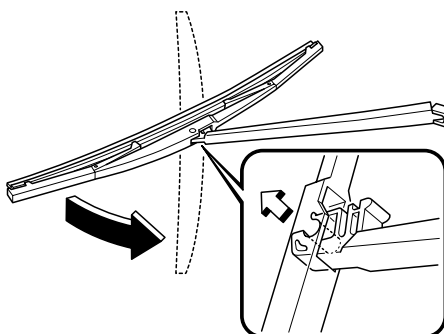
To prevent damage to the wiper arm and other components, do not move the wiper by hand.

Maintenance and Care
Owner Maintenance

1. Remove the cover and raise the wiper arm.



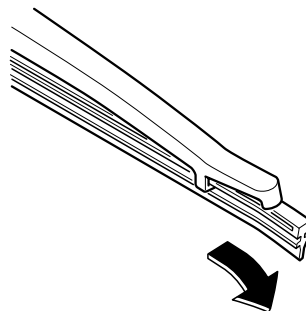
2. Firmly rotate the wiper blade to the right until it unlocks, then remove the blade.



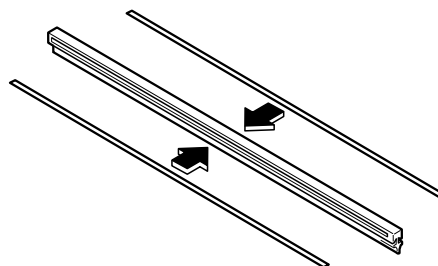
CAUTION

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.



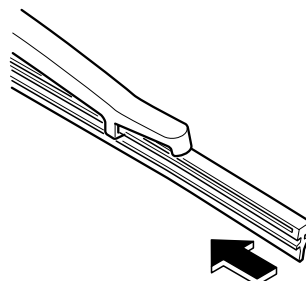
4. Remove the metal stiffeners from the blade rubber and install them in the new blade.



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 open battery cells and do not allow metal tools to contact the positive (+) or negative (–) terminal of the battery when working near a battery. Do not allow the positive (+) terminal to contact the vehicle body:

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

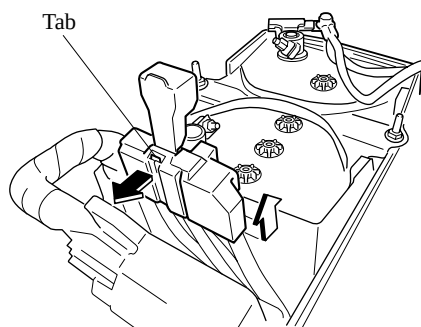


Keep all flames, including cigarettes, and sparks away from open battery cells:

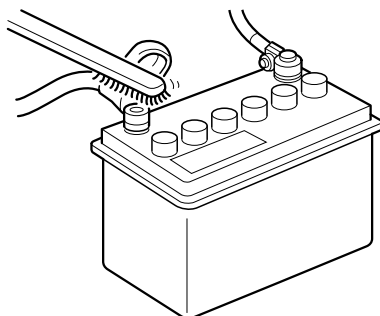
Flames and sparks near open battery cells are dangerous. Hydrogen gas, produced during normal battery operation, could ignite and cause the battery to explode. An exploding battery can cause serious burns and injuries.

NOTE

Before performing battery maintenance, remove the battery cover by pulling the tab.



▼ 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 six weeks.

When replacing the battery, refer to the specification charts (page 9-4).

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 (CR2025 or equivalent).*

The following conditions indicate that the battery power is low:

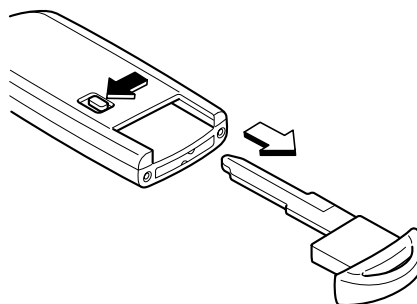
- The KEY indicator light (green) flashes in the instrument cluster for about 30 seconds after the engine is turned off.

- The system does not operate and the operation indicator light on the transmitter does not flash when the buttons are pressed.
- The system's operational range is reduced.

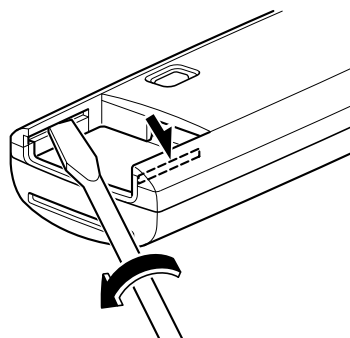
Replacing the battery at an Authorized Mazda Dealer is recommended to prevent damage to the key. If replacing the battery by yourself, follow the instruction below.

Replacing the key battery

1. Pull out the auxiliary key.

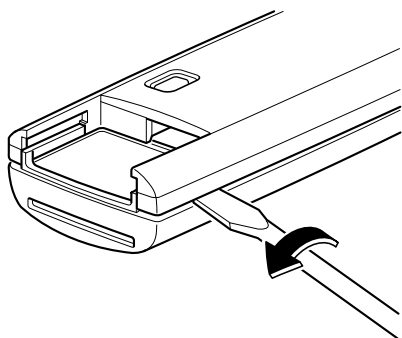


2. Insert a small, flathead screwdriver into the groove shown in the figure and rotate the screwdriver to open the cover slightly.

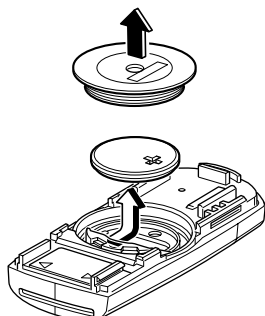


Maintenance and Care
Owner Maintenance

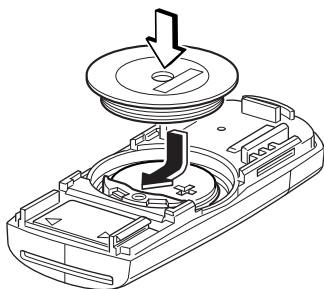
3. Insert the small, flathead screwdriver into the gap between the cover and the transmitter, and then rotate the screwdriver to detach the cover.



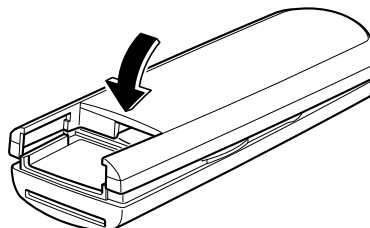
4. Remove the battery cap, then remove the battery.



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



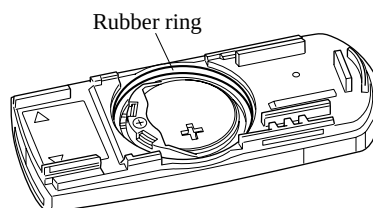
6. Close the cover.



7. Reinsert the auxiliary key.

CAUTION

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



Owner Maintenance

Tires

For reasons of proper performance, safety, and better fuel economy, always maintain recommended tire inflation pressures and stay within the recommended load limits and weight distribution.

WARNING

Using Different Tire Types:

Driving your vehicle with different types of tires is dangerous. It could cause poor handling and poor braking; leading to loss of control.

Except for the limited use of the temporary spare tire, use only the same type tires (radial, bias-belted, bias-type) on all four wheels.

Using Wrong-Sized Tires:

Using any other tire size than what is specified for your Mazda (page 9-9) is dangerous. It could seriously affect ride, handling, ground clearance, tire clearance, and speedometer calibration. This could cause you to have an accident. Use only tires that are the correct size specified for your Mazda.

▼ Tire Inflation Pressure

WARNING

Always inflate the tires to the correct pressure:

Overinflation or underinflation of tires is dangerous. Adverse handling or unexpected tire failure could result in a serious accident.

Refer to Tires on page 9-9

Use only a -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 9-9).

After adjusting the tire pressure, initialization of the tire pressure monitoring system is necessary to make the system operates normally. Refer to Tire Pressure Monitoring System Initialization on page 4-90.

NOTE

- 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.*

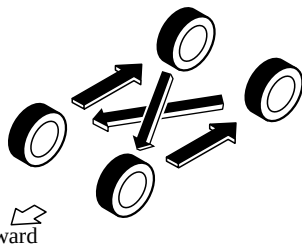
▼ Tire Rotation

! 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 8,000km (5,000 miles) to help increase tire life and distribute wear more evenly.

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 9-9) and inspect the lug nuts for tightness.

After adjusting the tire pressure, initialization of the tire pressure monitoring system is necessary to make the system operates normally. Refer to Tire Pressure Monitoring System Initialization on page 4-90

! 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:

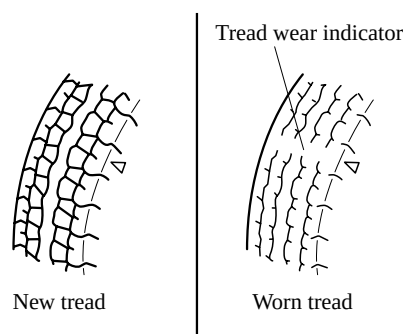
Driving with worn tires is dangerous. Reduced braking, steering, and traction could result in an accident.

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.

Owner Maintenance

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.

After adjusting the tire pressure, initialization of the tire pressure monitoring system is necessary to make the system operates normally. Refer to Tire Pressure Monitoring System Initialization on page 4-90.

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 8-21.

▼ 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 9-9.

⚠ 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 6-35).

Owner Maintenance

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 8-21.

▼ 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

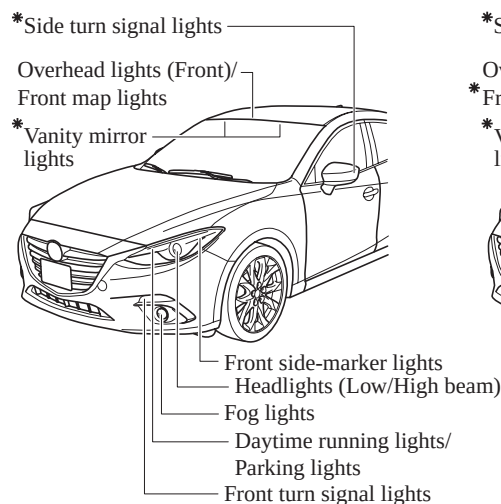
When replacing a wheel, make sure the new one is the same as the original factory wheel in diameter, rim width, and offset (inset/outset).

Proper tire balancing provides the best riding comfort and helps reduce tread wear. Out-of-balance tires can cause vibration and uneven wear, such as cupping and flat spots.

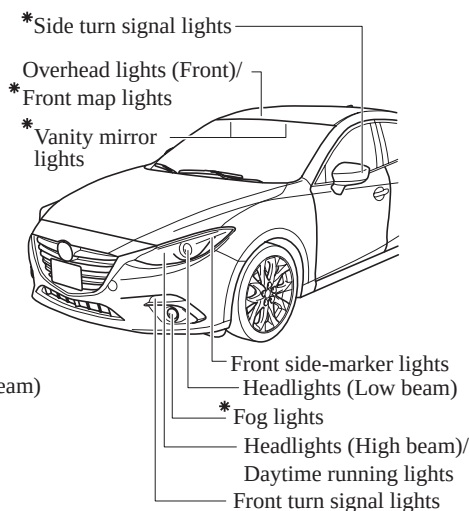
Owner Maintenance

Light Bulbs

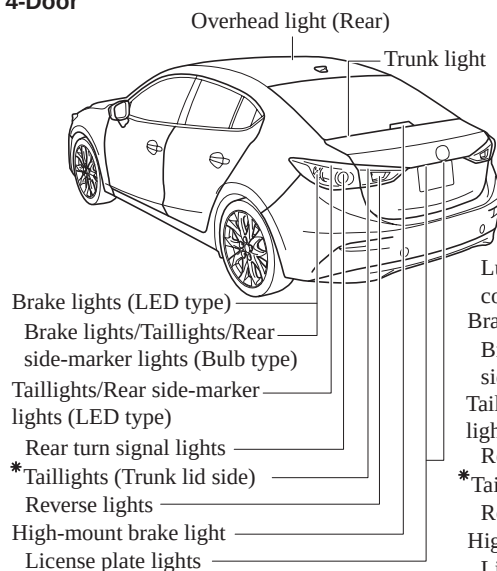
With Xenon Fusion Headlights



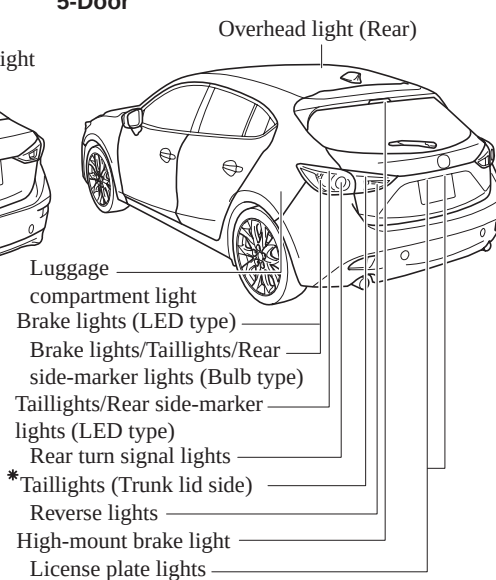
With Halogen Headlights



4-Door



5-Door



*Some models.

⚠ WARNING

Do not replace the xenon fusion bulbs yourself:

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

Never touch the glass portion of a halogen bulb with your bare hands and always wear eye protection when handling or working around the bulbs:

When a halogen bulb breaks, it is dangerous. These bulbs contain pressurized gas. If one is broken, it will explode and serious injuries could be caused by the flying glass. If the glass portion is touched with bare hands, body oil could cause the bulb to overheat and explode when lit.

Always keep halogen bulbs out of the reach of children:

Playing with a halogen bulb is dangerous. Serious injuries could be caused by dropping a halogen bulb or breaking it some other way.

NOTE

- To replace the bulb, contact an Authorized Mazda Dealer.
- If the halogen bulb is accidentally touched, it should be cleaned with rubbing alcohol before being used.
- Use the protective cover and carton for the replacement bulb to dispose of the old bulb promptly and out of the reach of children.

▼ Replacing Exterior Light Bulbs

Headlights (With xenon fusion headlights)

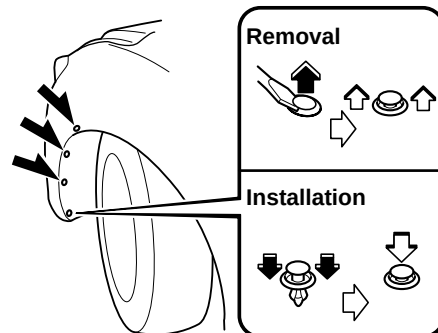
Low/High beam bulbs

You cannot replace the low/high beam bulbs by yourself. The bulbs must be replaced at an Authorized Mazda Dealer.

Headlights (With halogen headlights)

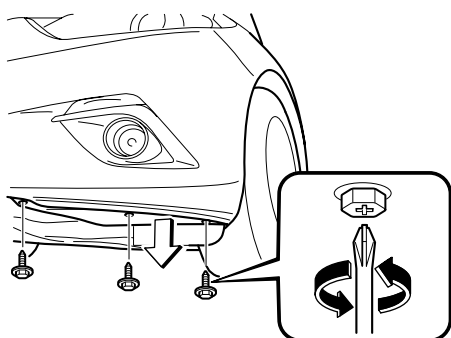
Low-beam bulbs, High-beam bulbs/Daytime running lights

1. If you are changing the right bulb, start the engine, turn the steering wheel all the way to the left, and turn off engine. If you are changing the left bulb, turn the steering wheel to the right, and turn off engine.
2. Make sure the headlight switch is off.
3. Pull the center of each plastic retainer and remove the retainers.



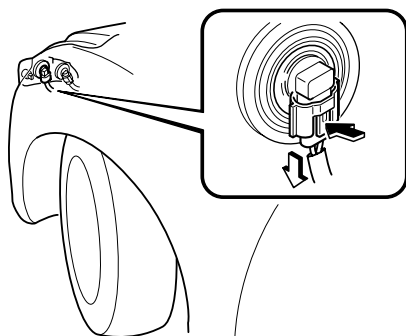
Owner Maintenance

4. Turn the screw counterclockwise and remove it, and then partially peel back the mudguard.

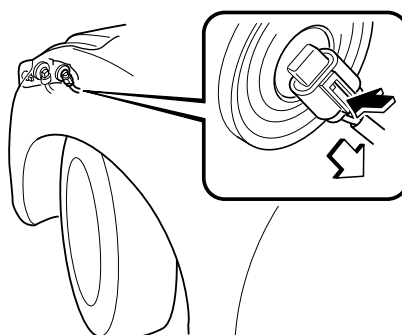


5. Disconnect the connector from the unit by pressing the tab on the connector with your finger and pulling the connector downward.

Low-beam bulbs

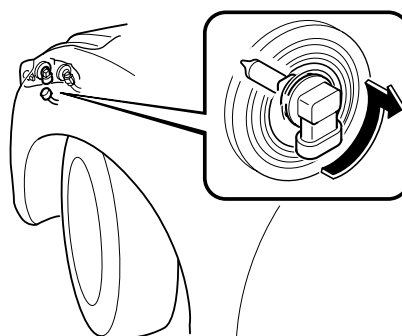


High-beam bulbs/Daytime running lights

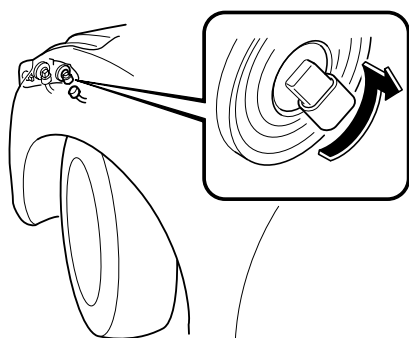


6. Turn the socket and bulb assembly to remove it. Carefully remove the bulb from its socket in the reflector by gently pulling it straight backward out of the socket.

Low-beam bulbs



High-beam bulbs/Daytime running lights



7. Install the new bulb in the reverse order of the removal procedure.

Daytime running lights/Parking lights (With xenon fusion headlights)

Due to the complexity and difficulty of the procedure, the LED bulbs must be replaced by an Authorized Mazda Dealer.

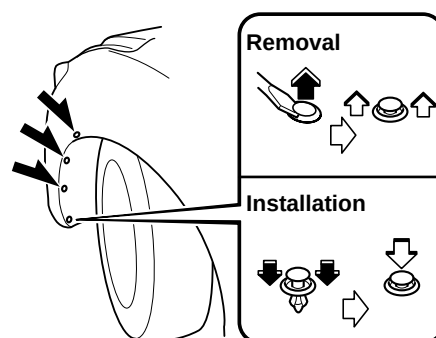
NOTE

LED bulb replacement is not possible because it is built into the unit. Replace the unit.

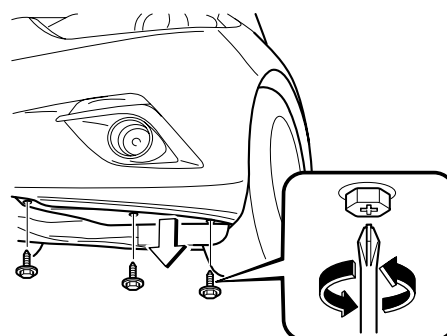
Front turn signal lights, Parking lights/ Front side-marker lights (With halogen headlights), Front side-marker lights (With xenon fusion headlights)

1. If you are changing the right bulb, start the engine, turn the steering wheel all the way to the left, and turn off engine. If you are changing the left bulb, turn the steering wheel to the right, and turn off engine.
2. Make sure the headlight switch is off.

3. Pull the center of each plastic retainer and remove the retainers.



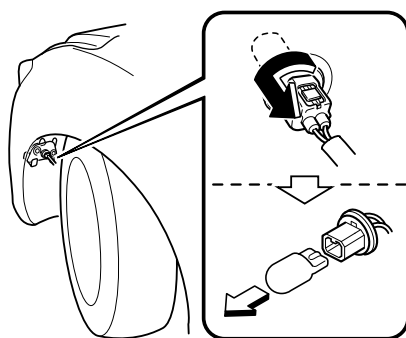
4. Turn the screw counterclockwise and remove it, and then partially peel back the mudguard.



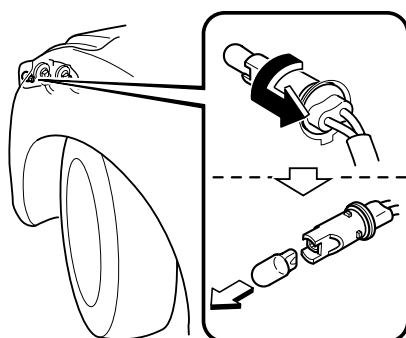
5. Turn the socket and bulb assembly counterclockwise and remove it.

Owner Maintenance

6. Disconnect the bulb from the socket.
Front turn signal lights



- Parking lights/Front side-marker lights (With halogen headlights), Front side-marker lights (With xenon fusion headlights)**

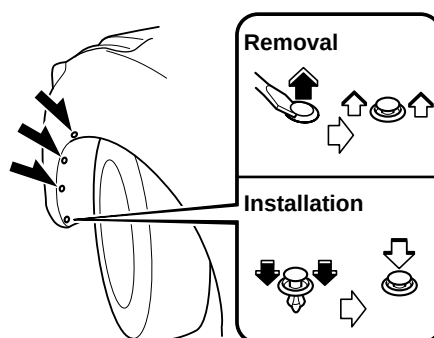


7. Install the new bulb in the reverse order of the removal procedure.

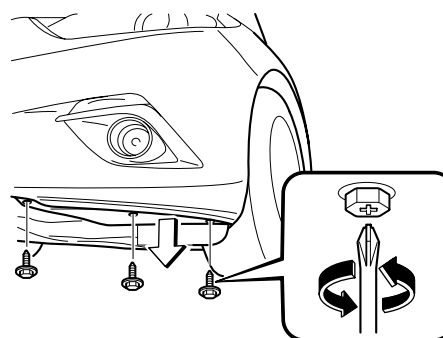
Fog lights*

1. If you are changing the right bulb, start the engine, turn the steering wheel all the way to the left, and turn off engine. If you are changing the left bulb, turn the steering wheel to the right, and turn off engine.
2. Make sure the fog light switch is off.

3. Pull the center of each plastic retainer and remove the retainers.



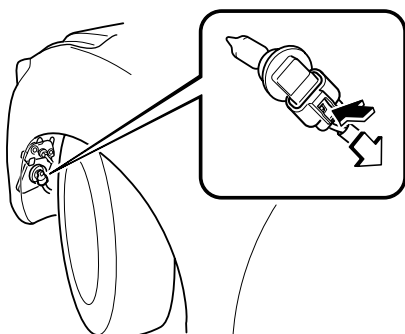
4. Turn the screw counterclockwise and remove it, and then partially peel back the mudguard.



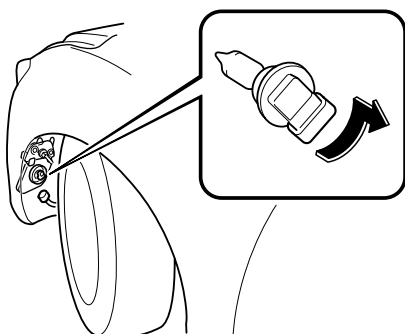
6-40 *Some models.

Maintenance and Care
Owner Maintenance

5. Disconnect the connector from the unit by pressing the tab on the connector with your finger and pulling the connector downward.



6. Turn the socket and bulb assembly to remove it. Carefully remove the bulb from its socket in the reflector by gently pulling it straight backward out of the socket.



7. Install the new bulb in the reverse order of the removal procedure.

Side turn signal lights*, Brake lights (LED type), Taillights/Rear side-marker lights (LED type), Taillights (Trunk lid side/Liftgate side), High-mount brake light

Due to the complexity and difficulty of the procedure, the LED bulbs must be replaced by an Authorized Mazda Dealer.

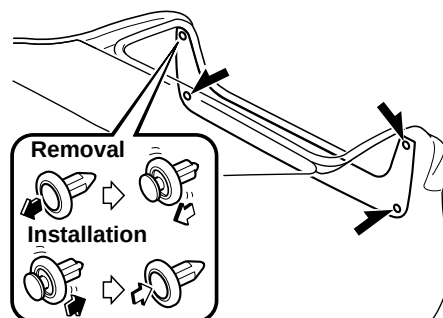
NOTE

LED bulb replacement is not possible because it is built into the unit. Replace the unit.

Rear turn signal lights, Brake lights/ Taillights/Rear side-marker lights (Bulb type)

4-Door

1. Make sure the ignition is switched off, and the headlight switch is off.
2. Pull the center of each plastic retainer and remove the retainers.
3. Remove trunk end trim.

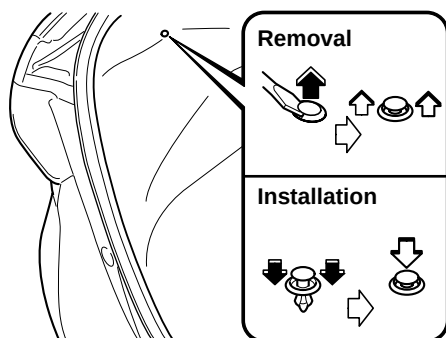


4. Pull the center of each plastic retainer and remove the retainers.

*Some models. **6-41**

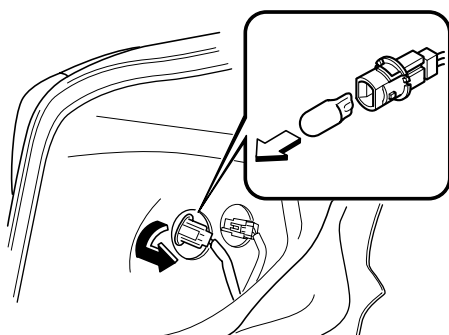
Owner Maintenance

5. Peel back the trunk side trim.

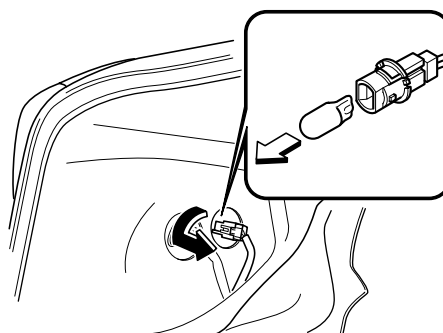


6. Turn the socket and bulb assembly counterclockwise and remove it.
7. Disconnect the bulb from the socket.

Rear turn signal lights



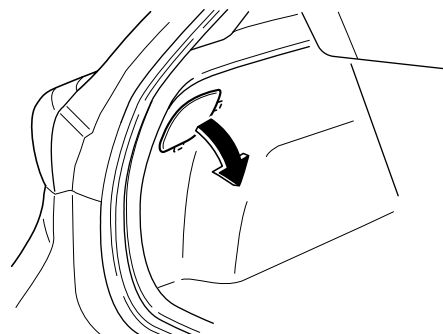
Brake lights/Taillights/Rear side-marker lights (Bulb type)



8. Install the new bulb in the reverse order of the removal procedure.

5-Door (Left side)

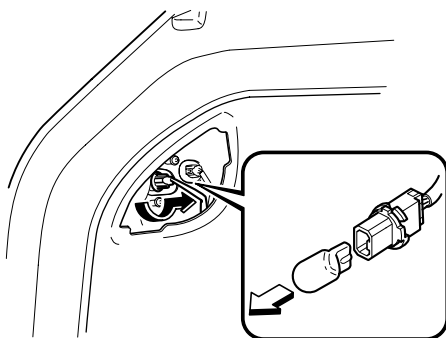
1. Make sure the ignition is switched off, and the headlight switch is off.
2. Remove the cover.



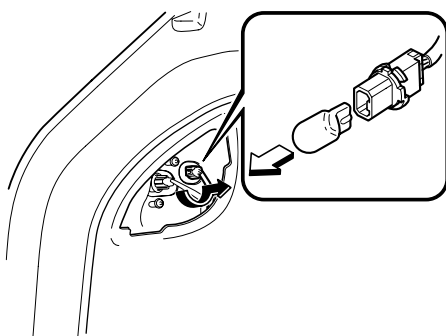
3. Turn the socket and bulb assembly counterclockwise and remove it.

Maintenance and Care
Owner Maintenance

4. Disconnect the bulb from the socket.
Rear turn signal lights



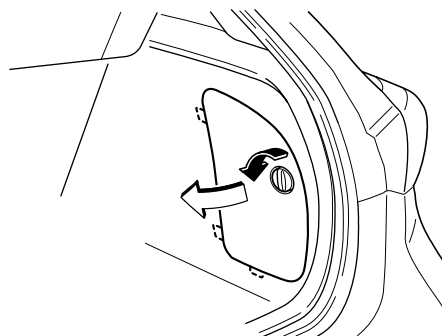
Brake lights/Taillights/Rear side-marker lights (Bulb type)



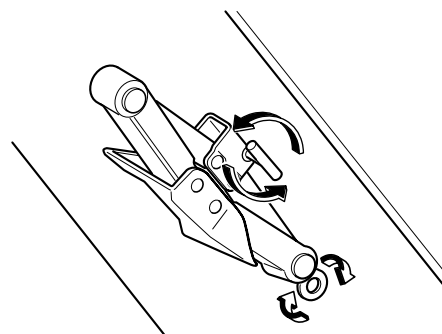
5. Install the new bulb in the reverse order of the removal procedure.

(Right side)

1. Make sure the ignition is switched off, and the headlight switch is off.
2. Turn the knob and remove the cover.



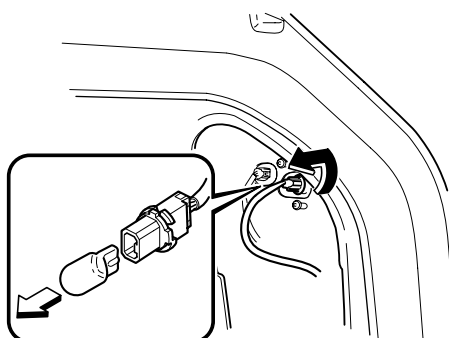
3. Turn the wing bolt and jack screw counterclockwise.



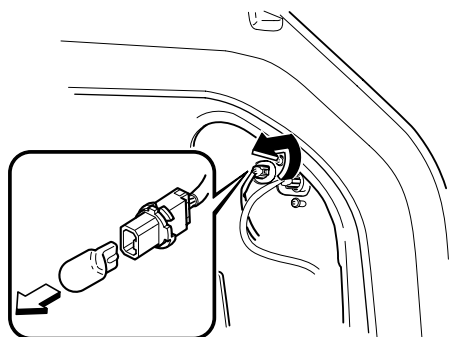
Owner Maintenance

4. Remove the jack
5. Turn the socket and bulb assembly counterclockwise and remove it.
6. Disconnect the bulb from the socket.

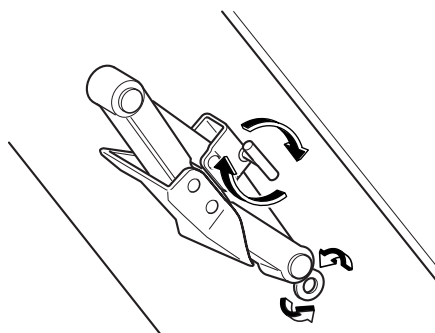
Rear turn signal lights



Brake lights/Taillights/Rear side-marker lights (Bulb type)



7. Install the new bulb.
8. Insert the wing bolt into the jack with the jack screw pointing to the down and turn the wing bolt clockwise to temporarily tighten it.
9. Turn the jack screw in the direction shown in the figure.



10. Turn the wing bolt completely to secure the jack.

NOTE

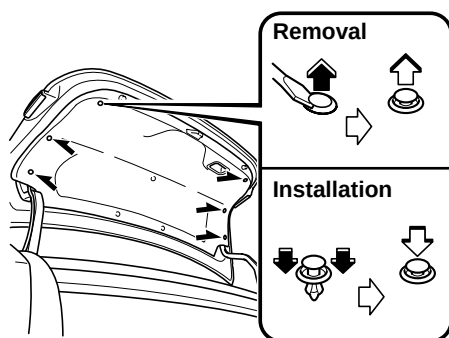
If the jack is not completely secured, it could rattle while driving. Make sure the jack screw is sufficiently tightened.

11. Install the cover in the reverse order of the removal procedure.

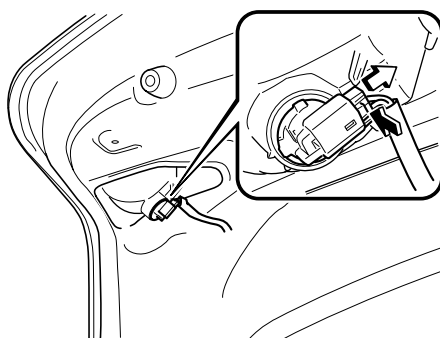
Reverse lights

4-Door

1. Make sure the ignition is switched off, and the headlight switch is off.
2. Pull the center of each plastic retainer and remove the retainers.
3. Peel back the trunk lid trim.

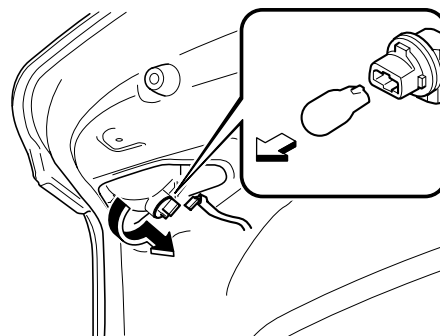


4. Disconnect the electrical connector from the bulb by pressing the tab on the connector with your finger and pulling the connector.



5. Turn the socket and bulb assembly counterclockwise and remove it.

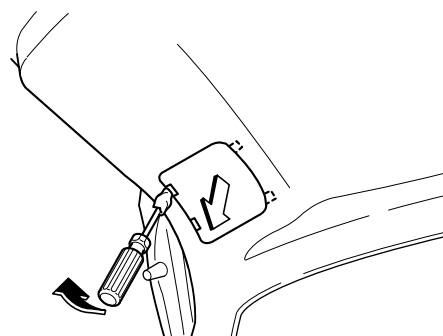
6. Disconnect the bulb from the socket.



7. Install the new bulb in the reverse order of the removal procedure.

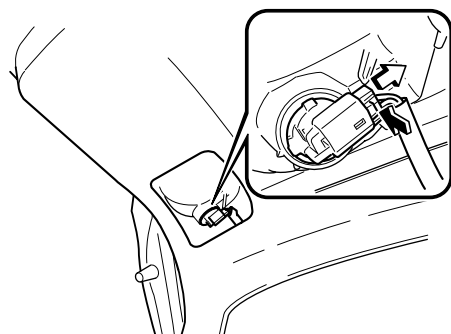
5-Door

1. Make sure the ignition is switched off, and the headlight switch is off.
2. Remove the cover.

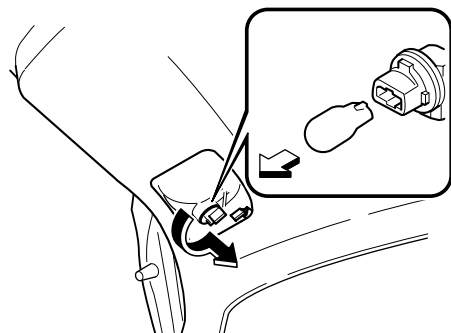


Owner Maintenance

3. Disconnect the electrical connector from the bulb by pressing the tab on the connector with your finger and pulling the connector.



4. Turn the socket and bulb assembly counterclockwise and remove it.
5. Disconnect the bulb from the socket.



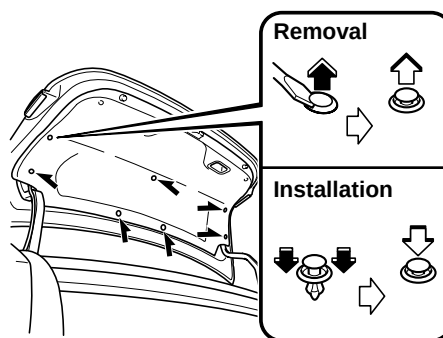
6. Install the new bulb in the reverse order of the removal procedure.

License plate lights

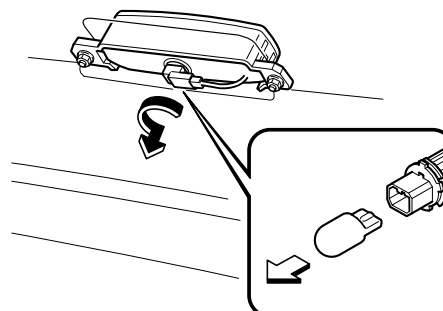
4-Door

1. Make sure the ignition is switched off, and the headlight switch is off.
2. Pull the center of each plastic retainer and remove the retainers.

3. Peel back the trunk lid trim.



4. Turn the socket and bulb assembly counterclockwise and remove it.
5. Disconnect the bulb from the socket.



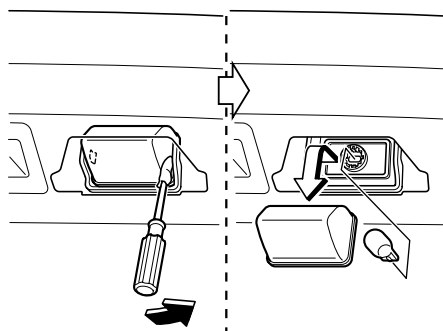
6. Install the new bulb in the reverse order of the removal procedure.

5-Door

1. Make sure the ignition is switched off, and the headlight switch is off.
2. Wrap a flathead screwdriver with a soft cloth to prevent damage to the lens, and then remove the lens by carefully prying on the edge of the lens with a flathead screwdriver.

Owner Maintenance

3. Disconnect the bulb by pulling it out.



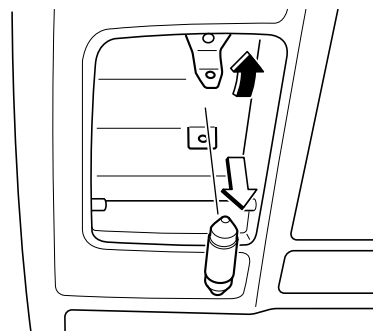
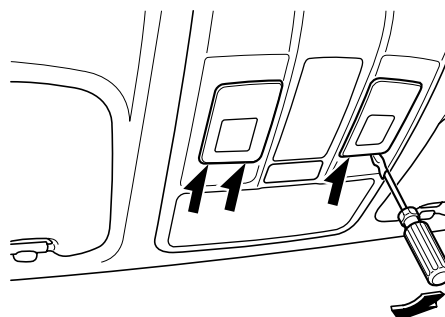
4. Install the new bulb in the reverse order of the removal procedure.

▼ Replacing Interior Light Bulbs

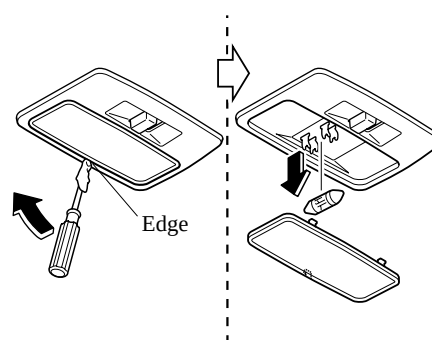
Overhead lights (Front)/Map lights*,
Overhead lights (Front)*, Overhead
lights (Rear)*, Vanity mirror lights*

1. Wrap a small 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 the flathead screwdriver.

2. Disconnect the bulb by pulling it out.
Overhead lights (Front)/Map lights*



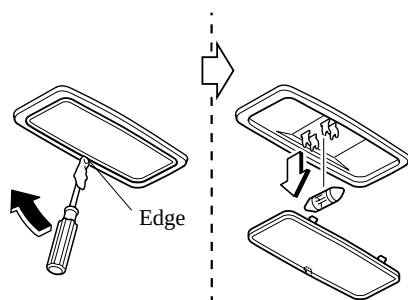
Overhead lights (Front)*



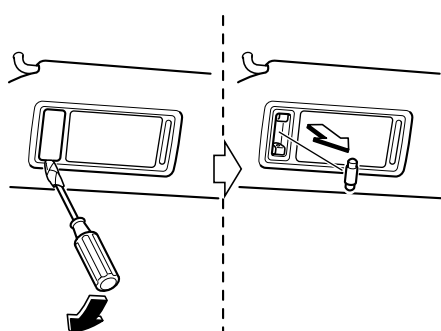
*Some models. **6-47**

Owner Maintenance

Overhead lights (Rear)*



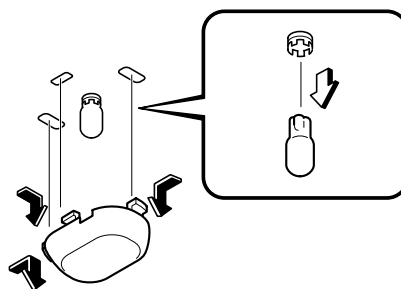
Vanity mirror lights*



3. Install the new bulb in the reverse order of the removal procedure.

Trunk light (4-Door)

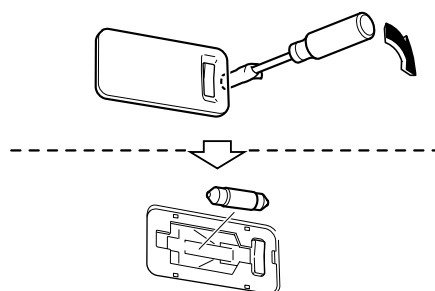
1. Press both sides of the lens cap to remove it.
2. Disconnect the bulb by pulling it out.



3. Install the new bulb in the reverse order of the removal procedure.

Luggage compartment light (5-Door)

1. Wrap a small flathead screwdriver with a soft cloth to prevent damage to the lens and remove the lens by carefully prying on the edge of the lens with the flathead screwdriver.
2. Disconnect the bulb by pulling it out.



3. Install the new bulb in the reverse order of the removal procedure.

6-48 *Some models.

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.

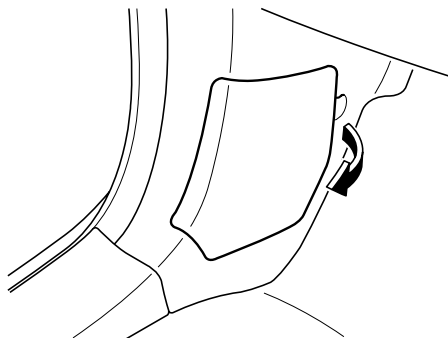
If the same fuse blows again, avoid using that system and consult an Authorized Mazda Dealer as soon as possible.

▼ Fuse Replacement

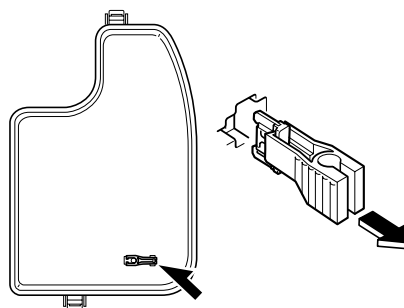
Replacing the fuses on the vehicle's left side

If the electrical system does not work, first inspect the fuses on the vehicle's left side.

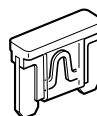
1. Make sure the ignition is switched off, and other switches are off.
2. Open the fuse panel cover.



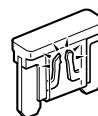
3. Pull the fuse straight out with the fuse puller provided on the fuse block located in the engine compartment.



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. We recommend an Authorized Mazda Dealer.

If you have no spare fuses, borrow one of the same rating from a circuit not essential to vehicle operation, such as the 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.

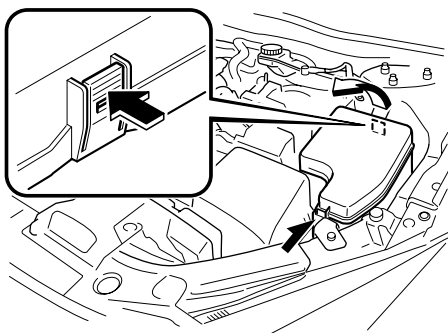
Owner Maintenance

6. Reinstall the cover and make sure that it is securely installed.

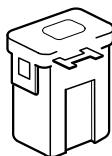
Replacing the fuses under the hood

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:

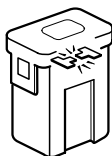
1. Make sure the ignition is switched off, and other switches are off.
2. Remove the fuse block cover.



3. If any fuse but the MAIN fuse is blown, replace it with a new one **of the same amperage rating**.



Normal



Blown

⚠ WARNING

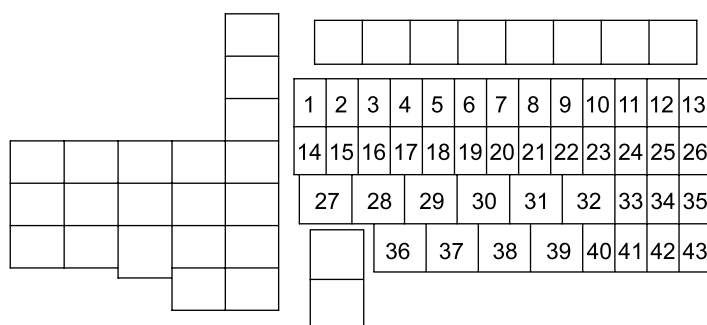
Do not replace the main fuse by yourself. Have an Authorized Mazda Dealer perform the replacement:

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	FOG	15 A	Fog lights*
2	H/L HI	20 A	Headlight high beam*
3	H/CLEAN	20 A	—
4	STOP	10 A	Brake lights
5	ROOM	15 A	Overhead light
6	ENG+B	7.5 A	Engine control system
7	FUEL WARM	—	—
8	HAZARD	25 A	Hazard warning flashers, Turn signal lights
9	ABS/DSCS	30 A	ABS, Dynamic stability control system
10	METER2	—	—
11	AUDIO2	7.5 A	Audio system
12	BOSE	25 A	Bose® Sound System-equipped model*
13	AUDIO1	15 A	Audio system
14	FUEL PUMP	15 A	Fuel system
15	HID RDRL	15 A	Headlight (RH)* ¹ , Daytime running lights*
16	AT PUMP	—	—
17	HORN	15 A	Horn
18	TAIL	15 A	Taillights, License plate lights, Parking lights, Front side-marker lights
19	—	—	—
20	AT	15 A	Transaxle control system
21	R.WIPER	15 A	Rear window wiper*
22	A/C	7.5 A	Air conditioner
23	ENGINE3	15 A	Engine control system

*Some models. **6-51**

Owner Maintenance

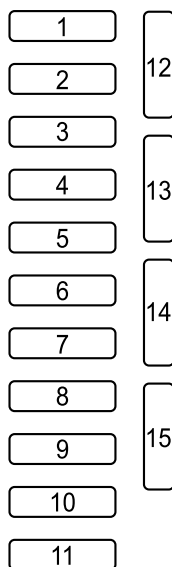
DESCRIPTION		FUSE RATING	PROTECTED COMPONENT
24	ENGINE2	15 A	Engine control system
25	ENGINE1	15 A	Engine control system
26	GLOW SIG	—	—
27	EVVT	20 A	Engine control system
28	WIPER	20 A	Front window wiper and washer
29	DCDC REG	—	—
30	—	—	—
31	ADD FAN DE	—	—
32	P.WINDOW1	30 A	Power windows
33	H/L LOW R	15 A	Headlight low beam (RH)*2
34	H/L LOW LHID L	15 A	Headlight (LH)*1, Headlight low beam (LH)*2
35	METER1	10 A	Instrument cluster
36	IG2	30 A	For protection of various circuits
37	—	—	—
38	FAN DE	—	—
39	DCDC DE	—	—
40	SRS1	7.5 A	Air bag
41	ENGINE. IG1	15 A	Engine control system
42	C/U IG1	15 A	For protection of various circuits
43	—	—	—

*1 With xenon fusion headlights

*2 With halogen headlights

Maintenance and Care
Owner Maintenance

Fuse block (Left side)



DESCRIPTION		FUSE RATING	PROTECTED COMPONENT
1	P.SEAT D	30 A	Power seat*
2	D.LOCK	25 A	Power door locks
3	P.WINDOW2	25 A	Power windows
4	SEAT WARM	20 A	Seat warmer*
5	R.OUTLET3	15 A	Accessory sockets*
6	SRS2/ESCL	15 A	Seat weight sensor*
7	SUNROOF	10 A	Moonroof*
8	M.DEF	7.5 A	Mirror defroster*
9	R.OUTLET1	15 A	Accessory sockets*
10	MIRROR	7.5 A	Power control mirror
11	F.OUTLET	15 A	Accessory sockets
12	AT IND	7.5 A	AT shift indicator*
13	—	—	—
14	—	—	—
15	—	—	—

*Some models. **6-53**

Appearance Care

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 one to two hours. After removing the newspaper, rinse off the loosened debris with water.

Water Marks

Occurrence

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

Appearance Care

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 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 or wiped with a cloth.*
- *If the windshield is struck with a hand or other object from either outside or inside the vehicle.*

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 damaged when the wipers activate automatically.

If you are going to clean the windshield, be sure the wipers are turned off completely—this is particularly important when clearing ice and snow—when it is most likely that the engine is left running.

- *Do not spray water in the engine compartment. Otherwise, it could result in engine-starting problems or damage to electrical parts.*

Appearance Care

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.

Appearance Care

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 a high water pressure car wash

High water temperature and high water pressure car washers are available depending on the type of car wash machine. If the car washer nozzle is put too close to the vehicle, the force of the spray could damage or deform the molding, affect the sealability of parts, and allow water to penetrate the interior. Keep a sufficient space (30 cm or more) between the nozzle and the vehicle. In addition, do not spend too much time spraying the same area of the vehicle, and be very careful when spraying between gaps in doors and around windows.

Waxing

Your vehicle needs to be waxed when water no longer beads on the finish. Always wash and dry the vehicle before waxing it. In addition to the vehicle body, wax the metal trim to maintain its luster.

1. Use wax which contains no abrasives. Waxes containing abrasive will remove paint and could damage bright metal parts.

2. Use a good grade of natural wax for metallic, mica, and solid colors.
3. When waxing, coat evenly with the sponge supplied or a soft cloth.
4. Wipe off the wax with a soft cloth.

NOTE

A spot remover to remove oil, tar, and similar materials will usually also take off the wax. Rewax these areas even if the rest of the vehicle does not need it.

▼ Repairing Damage to the Finish

Deep scratches or chips on the finish should be repaired promptly. Exposed metal quickly rusts and can lead to major repairs.

CAUTION

If your Mazda is damaged and needs metal parts repaired or replaced, make sure the body shop applies anti-corrosion materials to all parts, both repaired and new. This will prevent them from rusting.

▼ 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.

Appearance Care

CAUTION

Do not use steel wool, abrasive cleaners, or strong detergents containing highly alkaline or caustic agents on chrome-plated or anodized aluminum parts. This may 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.

Appearance Care

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.
- If your aluminum wheels lose luster, wax the wheels.

- 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.

▼ 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.

Appearance Care

Interior Care

WARNING

Do not spray water in the cabin:

Splashing water on electrical parts such as the audio unit and switches is dangerous as it could cause a malfunction or a fire.

Dashboard Precautions

Prevent caustic solutions such as perfume and cosmetic oils from contacting the dashboard. They will damage and discolor the dashboard. If these solutions get on the dashboard, wipe them off immediately.

CAUTION

Do not use glazing agents. Glazing agents contain ingredients which may cause discoloration, wrinkling, cracks and peeling.

Instrument panel top (soft pad)

- Extremely soft material is used for the soft pad surface. When cleaning, it is recommended that you use a clean towel dampened in a mild detergent to remove soiling.
- If the soft pad surface is rubbed harshly, it could result in the surface being damaged leaving white scratch marks.

Cleaning the Upholstery and Interior Trim

Vinyl

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

Leather*

Remove dust and sand first using a vacuum cleaner or other means, then wipe dirt off using a soft cloth with a leather cleaner or a soft cloth soaked in mild soap. Wipe off the remaining cleaner or soap using a cloth soaked in clean water and wrung out well.

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, also remove moisture and dry it as soon as possible.

6-60 *Some models.

Appearance Care

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.*
- *Sand and dust on the seat surface may damage the overcoat of the genuine leather surfaces and accelerate wear.*
- *Greasy soiling on genuine leather may cause molding and stains.*
- *Rubbing hard with a stiff brush or cloth may cause damage.*
- *Do not wipe the leather using alcohol, chlorine bleach, or organic solvents such as thinner, benzene, or gasoline. Otherwise, it may cause discoloration or stains.*
- *If the seats get 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 seats for long periods as they may affect the leather quality and coloring. If the cabin temperature becomes hot, the vinyl may deteriorate and adhere to the genuine leather.*

Fabric

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

To keep the fabric looking clean and fresh, take care of it. Otherwise its color will be affected, it can be stained easily, and its fire-resistance may be reduced.

CAUTION

Use only recommended cleaners and procedures. Others may affect appearance and fire-resistance.

Panel

When the panel needs to be cleaned, use a soft cloth to wipe off dirt from the surface.

NOTE

Scratches or nicks on the panels resulting from the use of a hard brush or cloth may not be repairable.

Be particularly careful when cleaning the following areas which are installed with specially coated panels.

- *Piano black panel*
- *Decoration panel*

▼ Maintenance of the Active Driving Display (ADD)

The combiner and mirror surface have a special coating. When cleaning, do not use a hard or rough-surface cloth, or cleaning detergent. Otherwise, the combiner and mirror could be damaged and the surface coating could be scratched. Use a fine, soft cloth such as those used for cleaning eyeglasses.

Appearance Care

▼ Cleaning the Lap/Shoulder Belt Webbing

Clean the webbing with a mild soap solution recommended for upholstery or carpets. Follow instructions. Do not bleach or dye the webbing; this may weaken it.

After cleaning the belts, thoroughly dry the belt webbing and make sure there is no remaining moisture before retracting them.

WARNING

Have an Authorized Mazda Dealer replace damaged seat belts immediately:

Using damaged seat belts is dangerous. In a collision, damaged belts cannot provide adequate protection.

▼ Cleaning the Window Interiors

If the windows become covered with an oily, greasy, or waxy film, clean them with glass cleaner. Follow the directions on the container.

CAUTION

- *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, brake, or clutch (Manual transaxle) pedal or when getting in or out of the vehicle.

After removing the floor mats for cleaning, always reinstall them securely. Refer to Floor Mat on page 3-47.

7 If Trouble Arises

Helpful information on what to do if a problem arises with the vehicle.

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Parking in an Emergency	7-2
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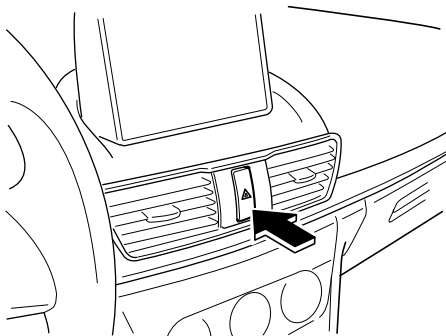
*Some models.

If Trouble Arises

Parking in an Emergency

Parking in an Emergency

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



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



Depress the hazard warning flasher and all the turn signals will flash. The hazard warning indicator lights in the instrument cluster flash simultaneously.

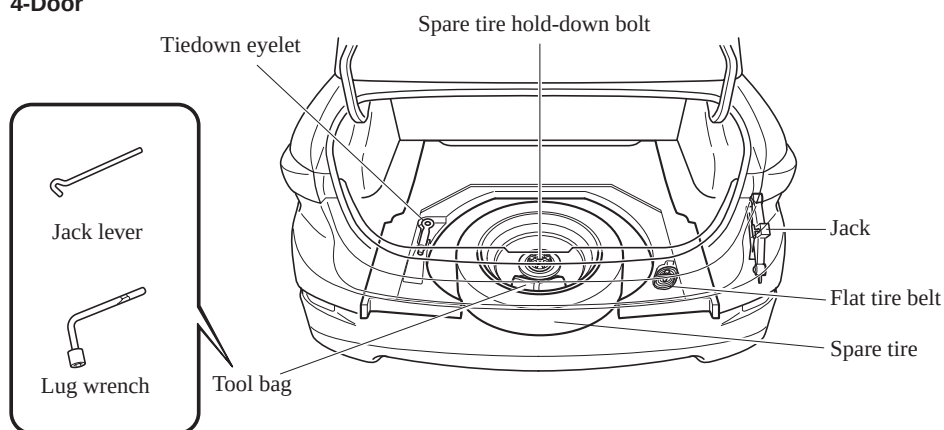
NOTE

- *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.*

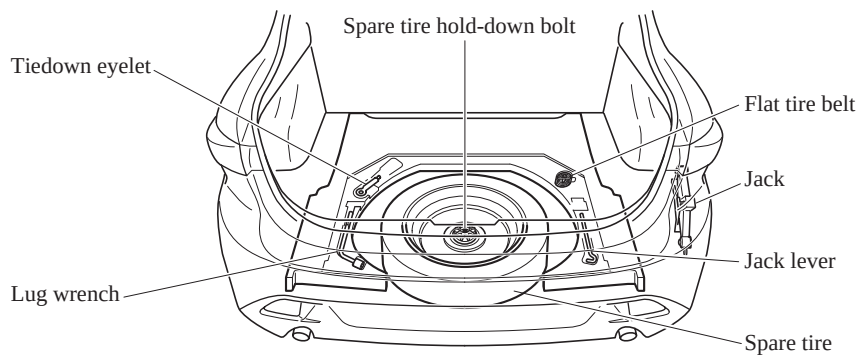
Spare Tire and Tool Storage

Spare tire and tools are stored in the locations illustrated in the diagram.

4-Door



5-Door



If Trouble Arises

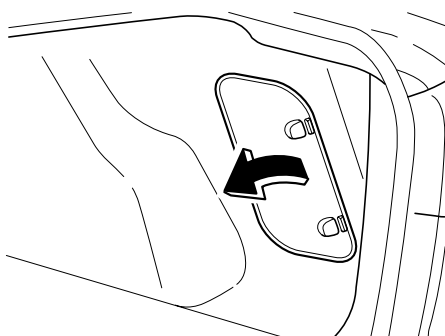
Flat Tire

▼ Jack

To remove the jack

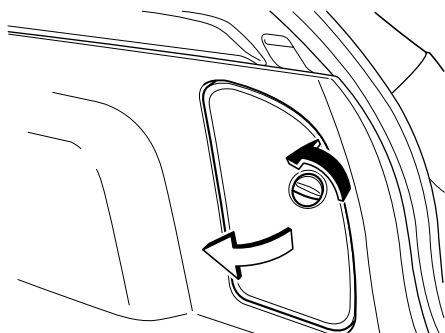
1. (4-Door)

Push the tabs and remove the cover.

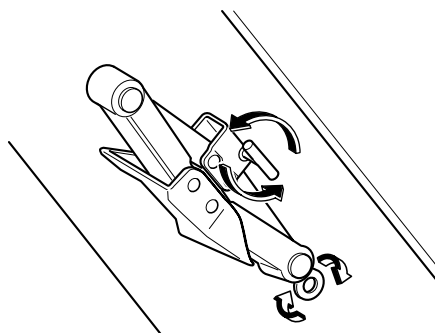


(5-Door)

Turn the knob and remove the cover.

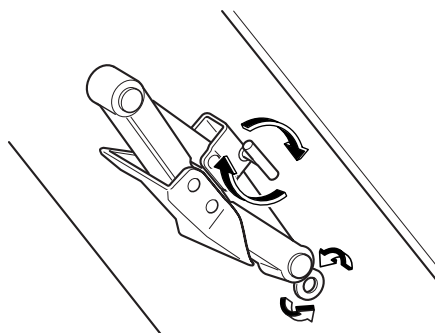


2. Turn the wing bolt and jack screw counterclockwise.



To secure the jack

1. Insert the wing bolt into the jack with the jack screw pointing to the down and turn the wing bolt clockwise to temporarily tighten it.
2. Turn the jack screw in the direction shown in the figure.



3. Turn the wing bolt completely to secure the jack.

NOTE

If the jack is not completely secured, it could rattle while driving. Make sure the jack screw is sufficiently tightened.

Flat Tire

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):

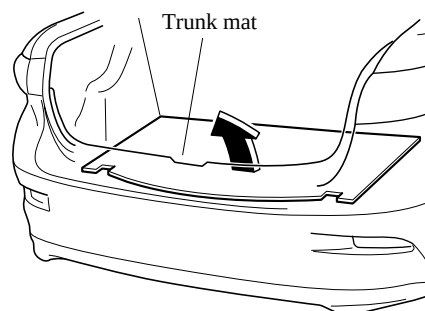
Driving with the temporary spare tire on one of the front driving wheels is dangerous. Handling will be affected. You could lose control of the vehicle, especially on ice or snow bound roads, and have an accident. Move a regular tire to the front wheel and install the temporary spare tire to the rear.

⚠ 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 about 10 mm (0.4 in).*
 - *Do not use a tire chain on this tire because it will not fit properly.*
 - *Do not use your temporary spare tire on any other vehicle, it has been designed only for your Mazda.*
 - *Use only one temporary spare tire on your vehicle at the same time.*

To remove the spare tire

1. Lift the trunk mat.

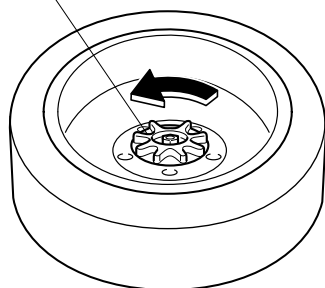


If Trouble Arises

Flat Tire

2. Turn the spare tire hold-down bolt counterclockwise.

Spare tire hold-down bolt



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:

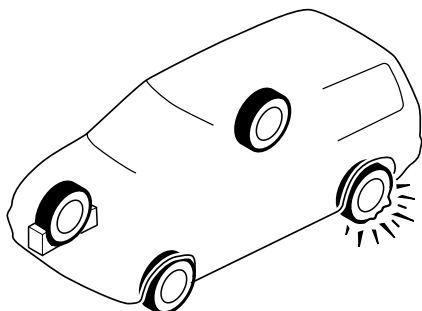
Allowing someone to remain in a vehicle supported by a jack is dangerous. The occupant could cause the vehicle to fall resulting in serious injury.

Flat Tire

NOTE

Make sure the jack is well lubricated before using it.

1. Park on a level surface off the right-of-way and firmly set the parking brake.
2. Put a vehicle with an automatic transaxle in Park (P), a manual transaxle in Reverse (R) or 1, and turn off the engine.
3. Turn on the hazard warning flasher.
4. Have everyone get out of the vehicle and away from the vehicle and traffic.
5. Remove the jack, tool, and spare tire (page 7-3).
6. Block the wheel diagonally opposite the flat tire. When blocking a wheel, place a tire block both in front and behind the tire.

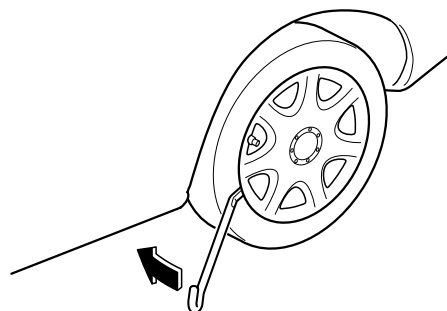


NOTE

When blocking a tire, use rocks or wood blocks of sufficient size if possible to hold the tire in place.

▼ Removing a Flat Tire

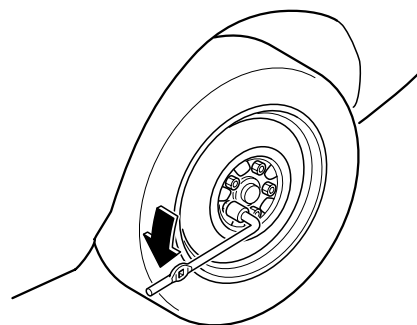
1. If your vehicle is equipped with a wheel cover, pry off the wheel cover with the beveled end of the jack lever.



NOTE

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

2. 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.

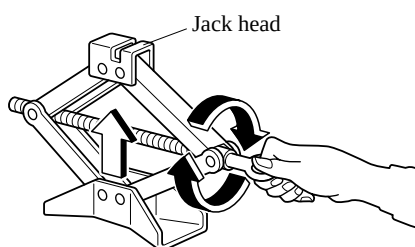


3. Place the jack on the ground.

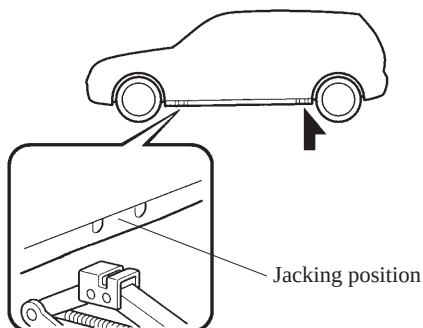
If Trouble Arises

Flat Tire

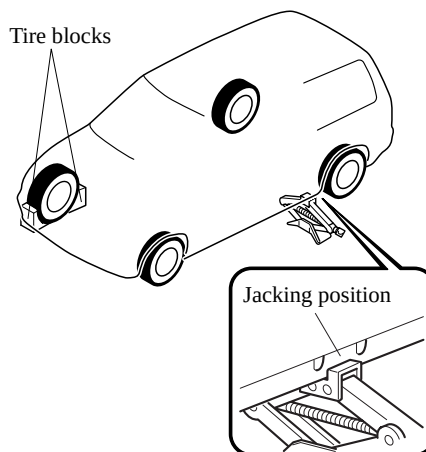
4. Turn the jack screw in the direction shown in the figure and adjust the jack head so that it is close to the jack-up position.



5. Place the jack under the jack-up position closest to the tire being changed with the jack head squarely under the jack-up point.



6. 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.

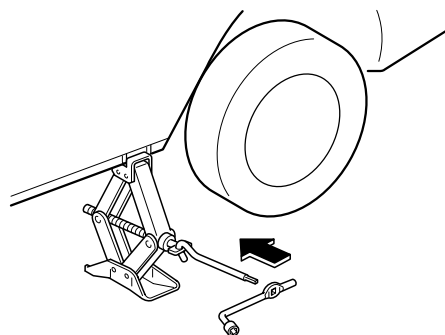
Use only the jack provided with your :

Using a jack that is not designed for your Mazda is dangerous. The vehicle could slip off the jack and seriously injure someone.

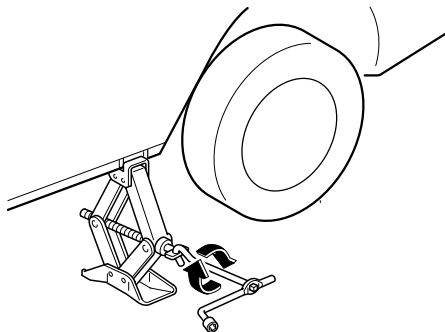
Never place objects under the jack:

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.

7. Insert the jack lever and attach the lug wrench to tire jack.



8. 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.



If Trouble Arises

Flat Tire

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.

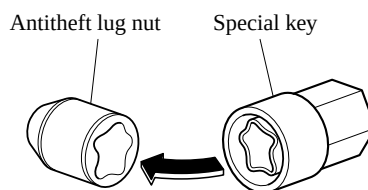
Never go under the vehicle while it is jacked up:

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.

9. Remove the lug nuts by turning them counterclockwise; then remove the wheel and center cap.

▼ Locking Lug Nuts

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



To remove an antitheft lug nut

1. Obtain the 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.

Flat Tire

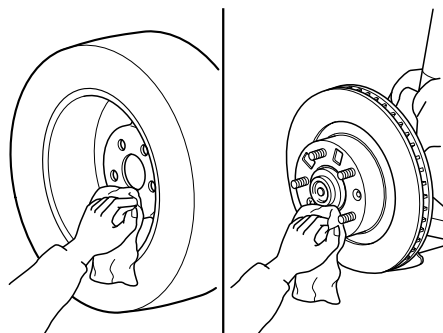
To install the antitheft lug nut

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.

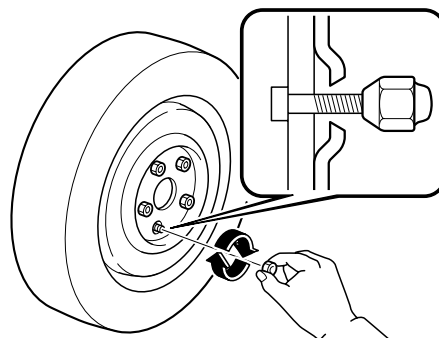


⚠ WARNING

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

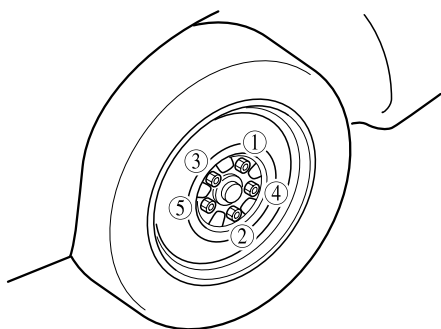
Do not apply oil or grease to lug nuts and bolts and do not tighten the lug nuts beyond the recommended tightening torque:

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.

If Trouble Arises

Flat Tire

4. Turn the lug wrench counterclockwise and lower the vehicle. 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

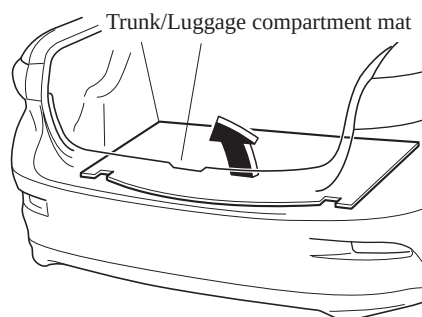
Always securely and correctly tighten the lug nuts:

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.

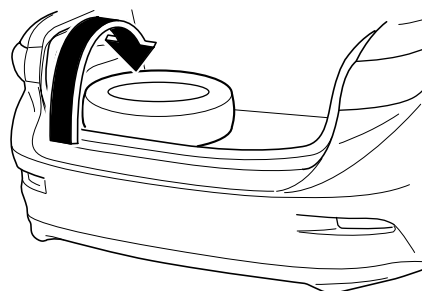
Be sure to reinstall the same nuts you removed or replace them with metric nuts of the same configuration:

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.

5. Open the trunk/luggage compartment mat.



6. Remove the belt for securing the flat tire.
7. Put the flat tire into the trunk/luggage compartment on the left and toward the back.

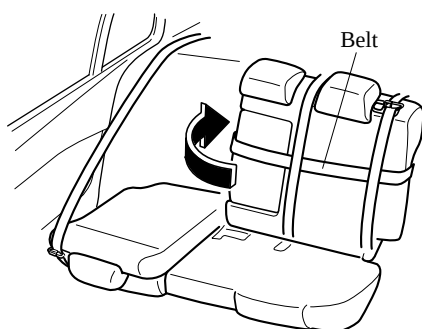


8. **(Split-folding type seat)**
Fold the rear seatback forward on the right side of the rear seat.
9. **(Split-folding type seat)**
Unlock the rear seatback on the left side and assure a clearance to pass the belt.
(One-piece folding type seat)
Unlock the rear seatback and assure a clearance to pass the belt.

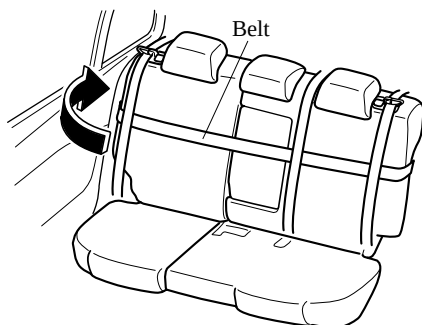
Flat Tire

10. Pass the belt through the rear seatback as shown in the figure. After passing the belt through, return the rear seatback to the original position.

(Split-folding type seat)

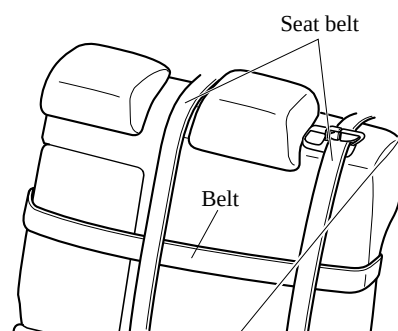


(One-piece folding type seat)

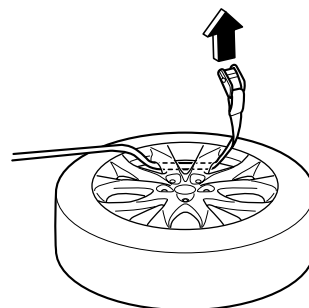


NOTE

Pass the belt underneath the seatbelts.



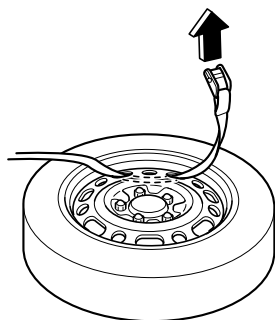
11. Pass the buckle through the wheel as shown in the figure and secure it so that the buckle does not contact the wheel.
(Aluminum wheel)



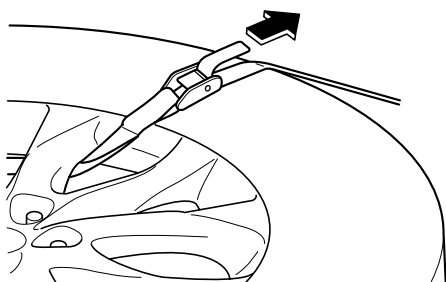
If Trouble Arises

Flat Tire

(Steel wheel)



12. Pass the belt through the buckle, then pull the belt end to secure the flat tire.



13. (Split-folding type seat)

Return the rear seatback on the right side of the rear seatback to its original position.

14. Remove the tire blocks and store the tools and jack.
15. Check the inflation pressure. Refer to Tires on page 9-9.
16. Have the flat tire repaired or replaced as soon as possible.

NOTE

Do not press the tire pressure monitoring system set switch after installing the spare tire. The switch is only to be pressed after installing the repaired flat tire or installing a replacement tire (page 4-20).

⚠ 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.

If Trouble Arises

Battery Runs Out

Jump-Starting

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

WARNING



Follow These Precautions Carefully:

To ensure safe and correct handling of the battery, read the following precautions carefully before using the battery or inspecting it.



Do not allow the positive (+) terminal to contact any other metal object that could cause sparks:

Flames and sparks near open battery cells are dangerous. Hydrogen gas, produced during normal battery operation, could ignite and cause the battery to explode. An exploding battery can cause serious burns and injuries. When working near a battery, do not allow metal tools to contact the positive (+) or negative (−) terminal of the battery.



Keep all flames, including cigarettes, and sparks away from open battery cells:

Flames and sparks near open battery cells are dangerous. Hydrogen gas, produced during normal battery operation, could ignite and cause the battery to explode. An exploding battery can cause serious burns and injuries.

Do not jump-start a frozen battery or one with a low fluid level:

Jump-starting a frozen battery or one with a low fluid level is dangerous. It may rupture or explode, causing serious injury.

Connect the negative cable to a good ground point away from the battery:

Connecting the end of the second jumper cable to the negative (−) terminal of the discharged battery is dangerous.

A spark could cause the gas around the battery to explode and injure someone.

Route the jumper cables away from parts that will be moving:

Connecting a jumper cable near or to moving parts (cooling fans, belts) is dangerous. The cable could get caught when the engine starts and cause serious injury.

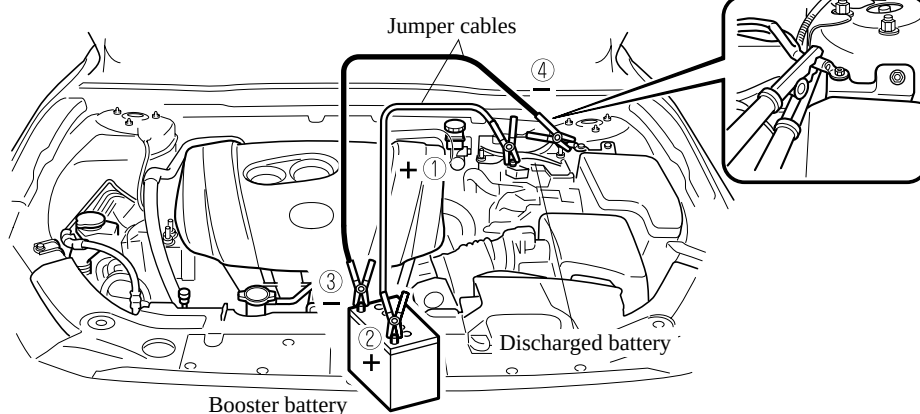
If Trouble Arises

Battery Runs Out

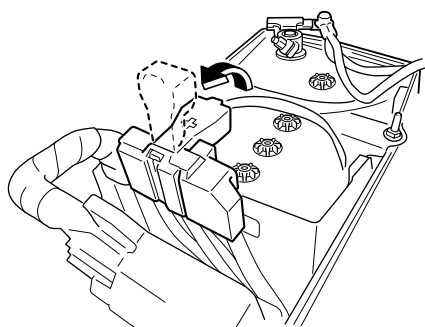
CAUTION

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

Connect cables in numerical order and disconnect in reverse order.



1. Remove the battery cover.



2. Make sure the booster battery is 12 V and that its negative terminal is grounded.

3. If the booster battery is in another vehicle, do not allow both vehicles to touch. Turn off the engine of the vehicle with the booster battery and all unnecessary electrical loads in both vehicles.

If Trouble Arises

Battery Runs Out

4. Connect the jumper cables in the exact sequence as in the illustration.
 - Connect one end of a cable to the positive terminal on the discharged battery (1).
 - Attach the other end to the positive terminal on the booster battery (2).
 - Connect one end of the other cable to the negative terminal of the booster battery (3).
 - Connect the other end to the ground point indicated in the illustration away from the discharged battery (4).
5. Start the engine of the booster vehicle and run it a few minutes. Then start the engine of the other vehicle.
6. The i-ELOOP indicator light may flash after the engine is started. The indicator light turns off when the engine is running and the charging is completed. Make sure the i-ELOOP indicator light is turns off before driving.

i-ELOOP

NOTE

- If the vehicle is driven with the i-ELOOP indicator light flashing, a beep sound is heard.
 - If the steering wheel is operated with the i-ELOOP indicator light flashing, it may feel heavier than normal, however, this does not indicate a malfunction. The steering operation will return to normal when the i-ELOOP indicator light turns off.
 - Do not remove the jumper cables while the i-ELOOP indicator light is flashing.
7. When finished, carefully disconnect the cables in the reverse order described in the illustration.
 8. If the battery cover has been removed, install it in the reverse order of removal.

NOTE

Verify that the covers are securely installed.

If Trouble Arises

Emergency Starting

Starting a Flooded Engine

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

Follow this procedure:

1. If the engine does not start within five seconds on the first try, wait ten 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 clutch pedal (Manual transaxle) or the brake pedal (Automatic transaxle), 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 above 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 two vehicles to collide. The occupants could be injured.

CAUTION

Do not push-start a vehicle that has a manual transaxle. It can damage the emission control system.

NOTE

You cannot start a vehicle with an automatic transaxle by pushing it.

Overheating

Overheating

If the High engine coolant temperature warning light illuminates, the vehicle loses power, or you hear a loud knocking or pinging noise, the engine is probably too hot.

WARNING



Switch the ignition to 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 High engine coolant temperature warning light illuminates:

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

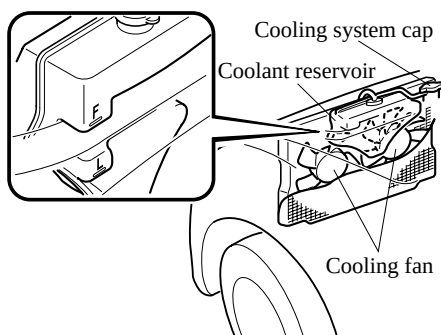
6. Make sure the cooling fan is operating, then turn off the engine after the temperature has decreased.
7. When cool, check the coolant level. If it is low, look for coolant leaks from the radiator and hoses.

If Trouble Arises

Overheating

If you find a leak or other damage, or if coolant is still leaking:

Stop the engine and call an Authorized Mazda Dealer.



If you find no problems, the engine is cool, and no leaks are obvious:

Carefully add coolant as required (page 6-21).

⚠ 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.

If Trouble Arises

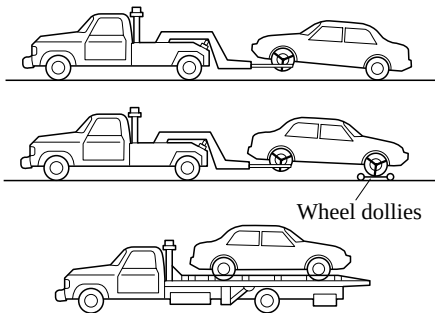
Emergency Towing

Towing Description

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

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

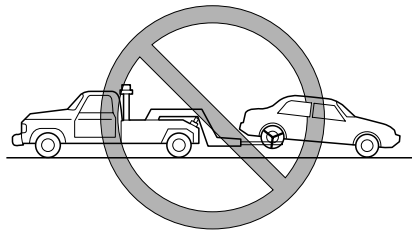
A towed vehicle usually should have its drive wheels (front wheels) off the ground. If excessive damage or other conditions prevent this, use wheel dollies.



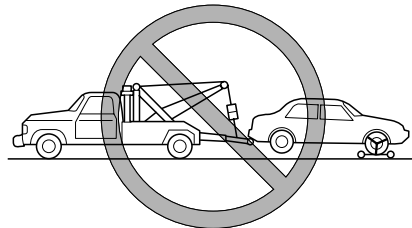
When towing with the rear wheels on the ground, release the parking brake.

CAUTION

- 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 Trouble Arises

Emergency Towing

Tiedown Hooks

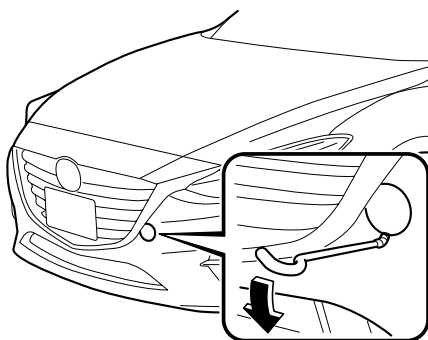
⚠ CAUTION

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.

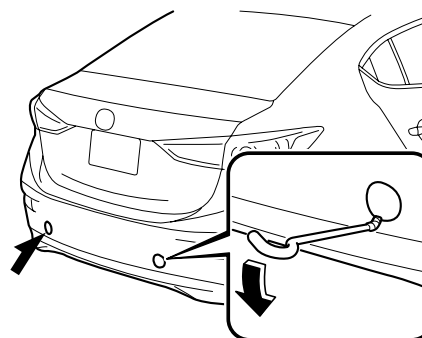
▼ Tiedown Hooks

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



Rear



⚠ CAUTION

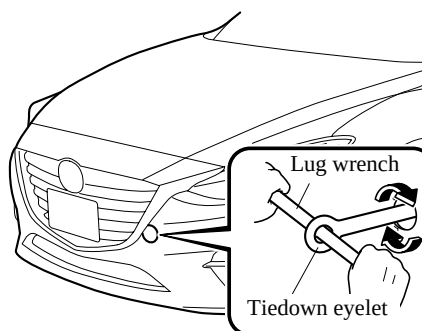
Do not use excessive force as it may damage the cap or scratch the painted bumper surface.

NOTE

Remove the cap completely and store it so as not to lose it.

3. Securely install the tiedown eyelet using the lug wrench.

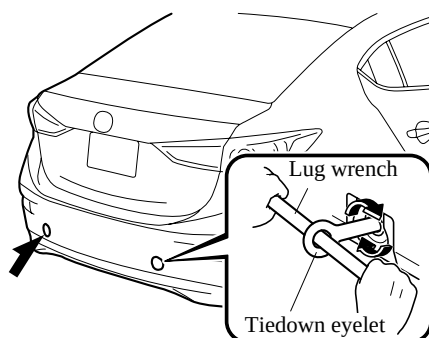
Front



If Trouble Arises

Emergency Towing

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 Trouble Arises

Warning/Indicator Lights and Warning Sounds

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.

(Vehicles with type B Audio)

The warning contents can be verified on the audio.

1. Select the (🔊) icon on the home screen to display the Applications screen.
2. Select the Warning Guidance.

▼ 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 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 fully released. Low brake fluid level warning If the brake warning light remains illuminated 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. ⚠ 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: <i>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.</i> ⚠ CAUTION <i>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.</i>
 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: <i>Driving when the brake system warning light and ABS warning light are illuminated simultaneously is dangerous.</i> <i>When both lights are illuminated, the rear wheels could lock more quickly in an emergency stop than under normal circumstances.</i>

Warning/Indicator Lights and Warning Sounds

Signal	Warning
 Charging System 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 <i>Do not continue driving when the charging system warning light is illuminated because the engine could stop unexpectedly.</i>
 Engine Oil Warning Light	This warning light indicates low engine oil pressure. CAUTION <i>Do not run the engine if the oil pressure is low. Otherwise, it could result in extensive engine damage.</i> If the light illuminates or the warning indication is displayed while driving: 1. Drive to the side of the road and park off the right-of-way on level ground. 2. Turn off the engine and wait 5 minutes for the oil to drain back into the oil pan. 3. Inspect the engine oil level (page 6-20). If it's low, add the appropriate amount of engine oil while being careful not to overfill. CAUTION <i>Do not run the engine if the oil level is low. Otherwise, it could result in extensive engine damage.</i> 4. Start the engine and check the warning light. If the light remains illuminated even though the oil level is normal or after adding oil, stop the engine immediately and have your vehicle towed to an Authorized Mazda Dealer.
 (Red) High Engine Coolant Temperature 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 7-19. CAUTION <i>Do not drive the vehicle with the high engine coolant temperature warning light illuminated. Otherwise, it could result in damage to the engine.</i>

If Trouble Arises

Warning/Indicator Lights and Warning Sounds

Signal	Warning
 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, 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.

Warning/Indicator Lights and Warning Sounds

▼ Contact Authorized Mazda Dealer and Have Vehicle Inspected

If any of the following warning lights turns on/flashes, the system may have a malfunction. Contact an Authorized Mazda Dealer to have your vehicle inspected.

Signal	Warning
 Master Warning Light	• (Vehicles with type B Audio) The light turns on when the system has a malfunction. Operate the audio display and verify the content. Refer to If a Warning Light Turns On or Flashes on page 7-24. • (Vehicles without type B Audio) 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.
 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.
 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 fuel tank level being very low or approaching empty. • The engine's electrical system has a problem. • The emission control system has a problem. • The fuel-filler cap is missing or not tightened securely. If the check engine light remains on, or it flashes continuously, do not drive at high speeds and consult an Authorized Mazda Dealer as soon as possible.
AT Automatic Transaxle Warning Light*	The light/indication illuminates when the transaxle has a problem.  CAUTION <i>If the automatic transaxle warning light illuminates, the transaxle has an electrical problem. Continuing to drive your Mazda in this condition could cause damage to your transaxle. Consult an Authorized Mazda Dealer as soon as possible.</i>
 Air Bag/Front 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 <i>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.</i>

*Some models. **7-27**

If Trouble Arises

Warning/Indicator Lights and Warning Sounds

Signal	Warning
 Tire Pressure Monitoring System Warning Light*	If the tire pressure monitoring system has a malfunction, the tire pressure warning light flashes for about 1 minute when the ignition is switched ON and then continues illuminating. 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.
 (Red) (Illuminate) 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 4-8.
 (Amber) (Flashes) Lane Departure Warning System (LDWS) Warning Light*	The warning light flashes when the system has a malfunction. Have your vehicle inspected at an Authorized Mazda Dealer. The LDWS does not operate when the warning light flashes. ⚠ CAUTION ➤ If any of the following cases occurs, the system may have a malfunction. Have the vehicle inspected at an Authorized Mazda Dealer. ➤ The light flashes while the vehicle is being driven. ➤ The light does not illuminate when the ignition is switched ON. ➤ 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 LDWS may not operate normally. ➤ When an emergency spare tire is used, the system may not operate normally.
 (Amber) High Beam Control System (HBC) Warning Light*	When illuminated The warning light illuminates if the area of the windshield in front of the forward sensing camera (FSC) is fogged or obstructed. When flashing This light flashes if there is a malfunction in the high beam control system (HBC). Have your vehicle inspected by an Authorized Mazda Dealer.

7-28 *Some models.

Warning/Indicator Lights and Warning Sounds

▼ Taking Action

Take the appropriate action and verify that the warning light turns off.

Signal	Warning	Action to be taken
 Low Fuel Warning Light	The light turns on when the remaining fuel is about 9 L (2.4 US gal, 2.0 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 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 Fuel-Filler Cap on page 3-31.

If Trouble Arises

Warning/Indicator Lights and Warning Sounds

Signal	Warning	Action to be taken
 Seat Belt Warning Light	With warning light for front passenger's seat The seat belt warning light illuminates if the driver or front passenger's seat is occupied and the seat belt is not fastened with the ignition switched ON. Without warning light for front passenger's seat The seat belt warning light illuminates if the driver's seat is occupied and the seat belt is not fastened with the ignition switched ON. <u>Seat belt reminder</u> NOTE Consult an Authorized Mazda Dealer to deactivate or restore the belt reminder. Though the belt reminder can be deactivated, doing so will defeat the purpose of the system to warn the driver and the front passenger in the event that their seat belts are not fastened. For the safety of the driver and front passenger, Mazda recommends not deactivating the belt reminder. Front seat If the vehicle is driven with the driver or front passenger's seat belt unfastened, the seat belt warning light illuminates and a warning beep sounds. NOTE Some models do not have the seat belt reminder function for the front passenger's seat. If the driver or front passenger's seat belt is unfastened (only when the front passenger seat is occupied) and the vehicle is driven at a speed faster than about 20 km/h (12 mph), the warning light will flash and a beep sound will be heard. After a short time, the warning light stops flashing, but remains illuminated, and the beep sound stops. 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 • The warning light flashes and a beep sound will be heard for about 6 seconds if the driver's seat belt is not fastened when the ignition is switched ON. • If a driver or front passenger's seat belt is unfastened after the beep sound turns off (warning light remains illuminated), and the vehicle speed exceeds 20 km/h (12 mph), the warning light flashes and beep sound activates again. • Placing heavy items on the front passenger seat may cause the front passenger seat belt warning function to operate depending on the weight of the item. • To allow the front passenger seat weight sensor to function properly, do not place and sit on an additional seat cushion on the front passenger seat. The sensor may not function properly because the additional seat cushion could cause sensor interference. • When a small child sits on the front passenger seat, it is possible that the warning light will not operate.	
 Door-Ajar Warning Light	The light turns on if any door is not closed securely.	Close the door securely.

Warning/Indicator Lights and Warning Sounds

Signal	Warning	Action to be taken
 Low Washer Fluid Level Warning Light	This warning light indicates that little washer fluid remains.	Add washer fluid (page 6-23).
 Tire Pressure Monitoring System Warning Light*	When the warning light illuminates, and the warning beep sound is heard (about 3 seconds), tire pressure is too low in one or more tires. ! WARNING <i>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:</i> <i>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.</i> <i>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.</i> Do not ignore the TPMS Warning Light: <i>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.</i>	Inspect the tires and adjust to the specified inflation pressure (page 6-32). 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 will remain illuminated even 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. •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 reinflating the tire as leaks are dangerous — take it to an Authorized Mazda Dealer.
 (Amber) Smart City Brake Support (SCBS) Indicator Light*	The light turns on if the system has a malfunction.	Verify the reason why the warning light is illuminated on the audio display (page 7-24). If the reason why the warning light is illuminated is due to a dirty windshield, clean the windshield. For any other reasons, have the vehicle inspected at an Authorized Mazda Dealer.

*Some models. **7-31**

If Trouble Arises

Warning/Indicator Lights and Warning Sounds

KEY Warning Light

Take the appropriate action and verify that the warning light turns off.

Signal	Cause	Action to be taken
 (Red) (Flashing)	The advanced key battery is dead.	Replace the battery (page 6-30).
	The advanced key is not within the operation range.	Bring the advanced key into the operation range (page 3-7).
	The advanced 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 advanced key is in the operation range.	Take the key from another manufacturer similar to the advanced key out of the operation range.
	Without the ignition switched off, the advanced key is taken out of the cabin, and then all the door are closed.	Bring the advanced key back into the cabin.

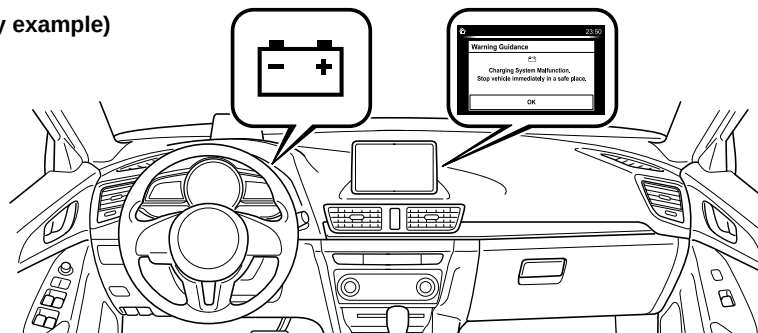
If Trouble Arises

Warning/Indicator Lights and Warning Sounds

Warning Message Indicated on Display*

If a warning message is displayed in the type B audio display, take appropriate action calmly according to the displayed message.

(Display example)



▼ Stop Vehicle in Safe Place Immediately

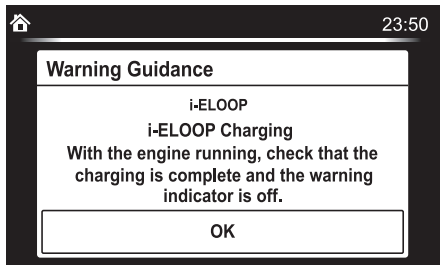
If any of the following display items is displayed in the type B audio display with the warning light turned on in the instrument cluster, the system may have a malfunction. Stop the vehicle in a safe place and contact an Authorized Mazda Dealer.

Display	Indicated Condition
The screenshot shows the audio display with a home icon and the time 23:50. The message reads: 'Warning Guidance', 'Engine Coolant Temperature Hight. Stop vehicle immediately in a safe place.', and an 'OK' button.	Displays if the engine coolant temperature has increased excessively.
The screenshot shows the audio display with a home icon and the time 23:50. The message reads: 'Warning Guidance', 'Charging System Malfunction. Stop vehicle immediately in a safe place.', and an 'OK' button.	Displays if the charging system has a malfunction.

*Some models. **7-33**

If Trouble Arises

Warning/Indicator Lights and Warning Sounds

Display	Indicated Condition
	Displays if i-ELOOP requires charging.

Warning/Indicator Lights and Warning Sounds

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 the ignition is switched 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 Personalization Features on page 9-10.

NOTE

- When the ignition is switched to ACC, the "Ignition Not Switched Off (STOP) Warning Beep" (page 7-36) overrides the lights-on reminder.
- A personalized function is available to change the sound volume for the lights-on reminder. Refer to Personalization Features on page 9-10.

▼ Air Bag/Front Seat Belt Pretensioner System Warning Beep

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

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

WARNING

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

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

▼ Seat Belt Warning Beep

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 the vehicle is driven at a speed faster than about 20 km/h (12 mph), a beep sound will be heard again for a specified period of time.

If Trouble Arises

Warning/Indicator Lights and Warning Sounds

NOTE

- Some models do not have the seat belt warning function for the front passenger's seat.
- Placing heavy items on the front passenger seat may cause the front passenger seat belt warning function to operate depending on the weight of the item.
- To allow the front passenger seat weight sensor to function properly, do not place and sit on an additional seat cushion on the front passenger seat. The sensor may not function properly because the additional seat cushion could cause sensor interference.
- When a small child sits on the front passenger seat, it is possible that the warning beep will not operate.

▼ Ignition Not Switched Off (STOP) Warning Beep

If the driver's door is opened while the ignition is switched to ACC, a continuous beep sound will be heard to notify the driver that the ignition has not been switched off (STOP). Left in this condition, the keyless entry system will not operate, the car cannot be locked, and the battery power will be depleted.

▼ Key Removed from Vehicle Warning Beep

Under the following conditions, a beep sound will be heard and the KEY warning light (red) will flash continuously when the ignition has not been switched off to notify the driver that the key has been removed. The KEY warning light (red) will stop flashing when the key is back inside the vehicle:

- The ignition has not been switched off and all the doors are closed after removing the key from the vehicle. (A beep sound will be heard 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 under the following conditions while the key is being carried, a beep will be heard for about 2 seconds to indicate that the front doors and the trunk can not be locked.

- A door is open (door ajar included).
- The ignition has not been switched to off.

Warning/Indicator Lights and Warning Sounds

▼ Key Left-in-luggage Compartment Warning Beep (With the advanced keyless function)

If the key is left in the trunk with all doors locked and the trunk lid closed, a beep sound is heard for about 10 seconds to remind the driver the key has been left in the trunk. If this happens, open the trunk lid by pressing the electric trunk lid opener and remove the key. A key removed from the trunk may not function because its functions may have been temporarily suspended. To restore the key function, perform the applicable procedure (page 3-8).

▼ Key Left-in-vehicle Warning Beep (With the advanced keyless function)

If a key is left in the vehicle cabin and all the doors and the trunk are locked using a separate key, a beep sound is heard for about 10 seconds to remind the driver that the key has been left in the vehicle cabin. If this happens, the doors and the trunk lock but the functions of the key left in the vehicle cabin may be temporarily suspended. Perform the applicable procedure to restore the functions of the key (page 3-8).

▼ i-ELOOP Warning Beep

The beep will sound if the vehicle is driven while the i-ELOOP indicator light is flashing. Make sure that the i-ELOOP indicator light has stopped flashing before driving.

▼ Tire Inflation Pressure Warning Beep

The warning beep sound will be heard for about 3 seconds when there is any abnormality in tire inflation pressures (page 4-87).

▼ Lane Departure Warning System (LDWS) 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 LDWS warning sound can be changed.
Refer to Personalization Features on page 9-10.
- The type of the LDWS warning sound can be changed.
Refer to Personalization Features on page 9-10.

▼ Blind Spot Monitoring (BSM) System Warning Beep

Driving forward

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

NOTE

A personalized function is available to change the BSM warning beep sound volume.
Refer to Personalization Features on page 9-10.

Reversing

If vehicles approach from the rear on the left and right, the Blind Spot Monitoring (BSM) warning beep operates.

If Trouble Arises

Warning/Indicator Lights and Warning Sounds

▼ Collision warning

If there is the possibility of a collision with a vehicle or obstruction ahead, the beep sounds continuously and a warning is indicated in the display.

▼ Power Steering Warning Buzzer

If the power steering system has a malfunction, the power steering malfunction light turns on or flashes and the buzzer operates at the same time. Refer to Warning/Indicator Lights on page 4-20.

▼ Over Rev. Buzzer*

The buzzer sounds to notify the driver if the engine speed is about to exceed the permissible engine speed.



Operate the accelerator and shift gears according to the driving conditions so that the buzzer does not sound. If the engine speed exceeds the permissible engine speed, the engine could be damaged.

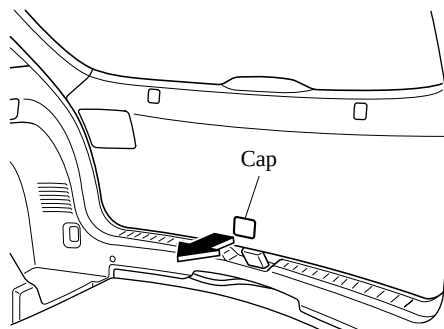
When Liftgate/Trunk Lid Cannot be Opened

When Liftgate/Trunk Lid Cannot be Opened

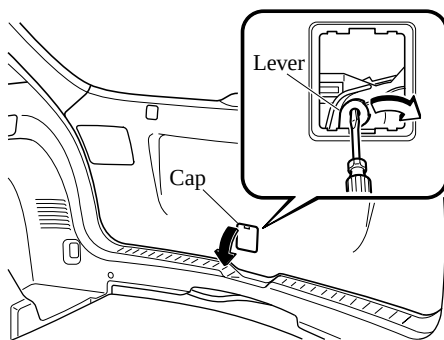
If the vehicle battery is dead or there is a malfunction in the electrical system and the liftgate/trunk lid can not be opened, perform the following procedure as an emergency measure to Open it:

(5-door)

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

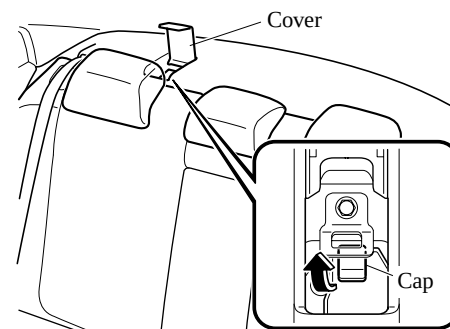


2. Turn the lever to the right to unlock the liftgate.

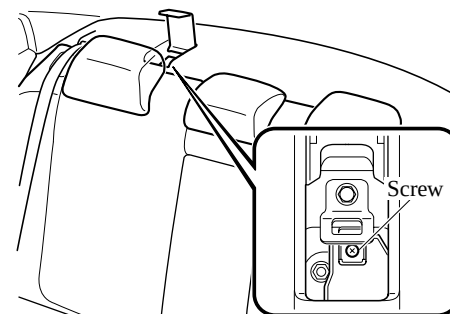


(4-door)

1. Open the cover.
2. Open the cap.



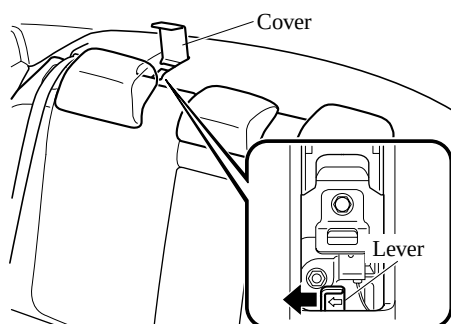
3. Turn the screw counterclockwise and remove it, and then remove the cap.



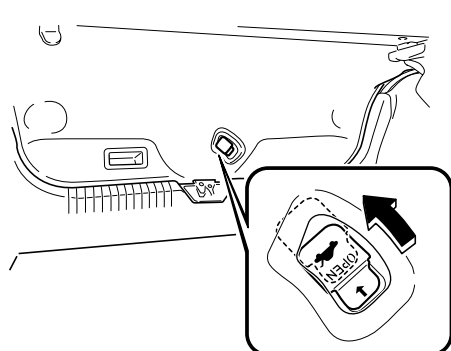
If Trouble Arises

When Liftgate/Trunk Lid Cannot be Opened

4. Move the lever to the left to fold the seatback.



5. Move the lever to the left to open the trunk lid.



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

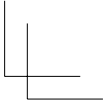
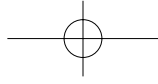
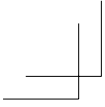
If Trouble Arises

Active Driving Display (ADD) Does Not Operate*

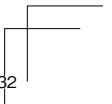
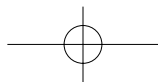
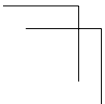
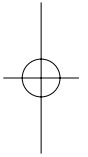
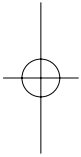
If the Active Driving Display (ADD) Does Not Operate

If the Active Driving Display (ADD) does not operate, switch the ignition off and then switch it back on. If the Active Driving Display (ADD) does not operate even with the ignition switched ON, have the vehicle inspected at an Authorized Mazda Dealer.

*Some models. **7-41**



MEMO



8

Customer Information and Reporting Safety Defects

Important consumer information including warranties and add-on equipment.

Customer Assistance	8-2	Uniform Tire Quality Grading System (UTQGS).....	8-19
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Customer Assistance

Customer Assistance (U.S.A.)

Your complete and permanent satisfaction is our business. We are here to serve you. All Authorized Mazda Dealers have the knowledge and the tools to keep your Mazda vehicle in top condition.

If you have any questions or recommendations for improvement regarding the service of your Mazda vehicle or servicing by Mazda Dealer personnel, we recommend that you take the following steps:

NOTE

If it becomes necessary to have the components or wiring system for the supplementary restraint system modified to accommodate a person with certain medical conditions in accordance with a certified physician, contact an Authorized Mazda Dealer.

▼ STEP 1: Contact Your Mazda Dealer

Discuss the matter with an Authorized Mazda Dealer. This is the quickest and best way to address the issue.

- If your concern has not been resolved by the CUSTOMER RELATIONS, SALES, SERVICE, or PARTS MANAGER, then please contact the GENERAL MANAGER of the dealership or the OWNER.
- If it becomes necessary to have the components or wiring system for the supplementary restraint system modified to accommodate a person with certain medical conditions in accordance with a certified physician, go to 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 "Inside Mazda" tab, or at the bottom of the page at www.mazdaUSA.com

By phone at: 1 (800) 222-5500

Customer Assistance

By letter at:
Attn: Customer Assistance
Mazda North American Operations
7755 Irvine Center Drive
Irvine, CA 92618-2922
P.O. Box 19734
Irvine, CA 92623-9734

In order to serve you efficiently and effectively, please help us by providing the following information:

1. Your name, address, and telephone number
2. Year and model of vehicle
3. Vehicle Identification Number (17 digits, noted on your registration or title or located on the upper driver's side corner of the dash)
4. Purchase date and current mileage
5. Your dealer's name and location
6. Your question(s)

If you live outside the U.S.A., please contact your nearest Mazda Distributor.

▼ STEP 3: Contact Better Business Bureau (BBB)

Mazda North American Operations realizes that mutual agreement on some issues may not be possible. As a final step to ensure that your concerns are being fairly considered, Mazda North American Operations has agreed to participate in a dispute settlement program administered by the Better Business Bureau (BBB) system, at no cost to you the consumer.

BBB AUTO LINE works with consumers and the manufacturer in an attempt to reach a mutually acceptable resolution of any warranty related concerns. If the BBB is not able to facilitate a settlement they will provide an informal hearing before an arbitrator.

You are required to resort to BBB AUTO LINE before exercising rights or seeking remedies under the Federal Magnuson-Moss Warranty Act, 15 U.S.C. § 2301 et seq. To the extent permitted by the applicable state "Lemon Law", you are also required to resort to BBB AUTO LINE before exercising any rights or seeking remedies under the "Lemon Law". If you choose to seek remedies that are not created by the Magnuson-Moss Warranty Act or the applicable state "Lemon Law", you are not required to first use BBB AUTO LINE.

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.lemonlaw.bbb.org.

Customer Assistance

Being truly committed to customer satisfaction is more than a phrase with Mazda. We hope to satisfy every customer directly, but if there is ever a question about our decision, Mazda believes in providing a fast, fair and free method such as the BBB AUTO LINE to ensure Mazda delivers on our commitment to do the right thing for our customers!

▼ California Customers

1. Mazda North American Operations participates in BBB AUTO LINE, a mediation/arbitration program administered by the Council of Better Business Bureaus [4200 Wilson Boulevard, Arlington, Virginia 22203] through local Better Business Bureaus. BBB AUTO LINE and Mazda have been certified by the Arbitration Certification Program of the California Department of Consumer Affairs.
2. If you have a problem arising under a Mazda written warranty, we encourage you to bring it to our attention. If we are unable to resolve it, you may file a claim with BBB AUTO LINE. Claims must be filed with BBB AUTO LINE within six (6) months after the expiration of the warranty.
3. To file a claim with BBB AUTO LINE, call 1-800-955-5100. There is no charge for the call.
4. In order to file a claim with BBB AUTO LINE, you will have to provide your name and address, the brand name and vehicle identification number (VIN) of your vehicle, and a statement of the nature of your problem or complaint. You will also be asked to provide: the approximate date of your acquisition of the vehicle, the vehicle's current mileage, the approximate date and mileage at the time any problem(s) were first brought to the attention of Mazda or one of our dealers, and a statement of the relief you are seeking.
5. BBB AUTO LINE staff may try to help resolve your dispute through mediation. If mediation is not successful, or if you do not wish to participate in mediation, claims within the program's jurisdiction may be presented to an arbitrator at an informal hearing. The arbitrator's decision should ordinarily be issued within 40 days from the time your complaint is filed; there may be a delay of 7 days if you did not first contact Mazda about your problem, or a delay of up to 30 days if the arbitrator requests an inspection/report by an impartial technical expert or further investigation and report by BBB AUTO LINE.
6. You are required to use BBB AUTO LINE before asserting in court any rights or remedies conferred by California Civil Code Section 1793.22. You are also required to use BBB AUTO LINE before exercising rights or seeking remedies created by Title I of the Magnuson-Moss Warranty Act, 15 U.S.C. sec. 2301 et seq. If you choose to seek redress by pursuing rights and remedies not created by California Civil Code Section 1793.22 or Title I of the Magnuson-Moss Warranty Act, resort to BBB AUTO LINE is not required by those statutes.

Customer Assistance

7. California Civil Code Section 1793.2 (d) requires that, if Mazda or its representative is unable to repair a new motor vehicle to conform to the vehicle's applicable express warranty after a reasonable number of attempts, Mazda may be required to replace or repurchase the vehicle. California Civil Code Section 1793.22 (b) creates a presumption that Mazda has had a reasonable number of attempts to conform the vehicle to its applicable express warranties if, within 18 months from delivery to the buyer or 18,000 miles on the vehicle's odometer, whichever occurs first, one or more of the following occurs:
- The same nonconformity [a failure to conform to the written warranty that substantially impairs the use, value or safety of the vehicle] results in a condition that is likely to cause death or serious bodily injury if the vehicle is driven **AND** the nonconformity has been subject to repair two or more times by Mazda or its agents **AND** the buyer or lessee has directly notified Mazda of the need for the repair of the nonconformity; OR
 - The same nonconformity has been subject to repair 4 or more times by Mazda or its agents **AND** the buyer has notified Mazda of the need for the repair of the nonconformity; OR
 - The vehicle is out of service by reason of repair of nonconformities by Mazda or its agents for a cumulative total of more than 30 calendar days after delivery of the vehicle to the buyer.

NOTICE TO Mazda AS REQUIRED ABOVE SHALL BE SENT TO THE FOLLOWING ADDRESS:

Mazda North American Operations
7755 Irvine Center Drive
Irvine, CA 92618
ATTN: Customer Mediation

8. The following remedies may be sought in BBB AUTO LINE: repairs, reimbursement for money paid to repair a vehicle or other expenses incurred as result of a vehicle nonconformity, repurchase or replacement of your vehicle, and compensation for damages and remedies available under Mazda's written warranty or applicable law.
9. The following remedies may **not** be sought in BBB AUTO LINE: punitive or multiple damages, attorneys' fees, or consequential damages other than as provided in California Civil Code Section 1794 (a) and (b).
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

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 8-8).

▼ STEP 3: Contact the Mazda Customer Relations Department

If still not substantially satisfied, contact the Customer Relations Department, Mazda Canada Inc., 55 Vogell Road, Richmond Hill, Ontario, L4B 3K5 Canada TEL: 1 (800) 263-4680.

Provide the Department with the following information:

1. Your name, address and telephone number
2. Year and model of vehicle
3. Vehicle Identification Number (VIN). Refer to the "Vehicle Identification Labels" page of section 9 of this manual for the location of the VIN.
4. Purchase date
5. Present odometer reading
6. Your dealer's name and location
7. The nature of your problem and/or cause of dissatisfaction

The Department, in cooperation with the local Mazda Service Representative, will review the case to determine if everything possible has been done to ensure your satisfaction.

Customer Assistance

Please recognize that the resolution of service problems in most cases requires the use of your Mazda dealer's service facilities, personnel and equipment. We urge you to follow the above three steps in sequence for most effective results.

▼ Mediation/Arbitration Program

Occasionally a customer concern cannot be resolved through Mazda's Customer Satisfaction Program. If after exhausting the procedures in this manual your concern is still not resolved, you have another option.

Mazda Canada Inc. participates in an arbitration program administered by the Canadian Motor Vehicle Arbitration Plan (CAMVAP). CAMVAP will advise you about how your concern may be reviewed and resolved by an independent third party through binding arbitration.

Your complete satisfaction is the goal of Mazda Canada Inc. and our dealers. Mazda's participation in CAMVAP makes a valuable contribution to our achieving that goal. There is no charge for using CAMVAP. CAMVAP results are fast, fair and final as the award is binding on both you and Mazda Canada Inc.

▼ Canadian Motor Vehicle Arbitration Plan (CAMVAP)

If a specific item of concern arises, where a solution cannot be reached between an owner, Mazda, and/or one of its dealers (that all parties cannot agree upon), the owner may wish to use the services offered by the Canadian Motor Vehicle Arbitration Plan (CAMVAP).

CAMVAP uses the services of Provincial Administrators to assist consumers in scheduling and preparing for their arbitration hearings. However, before you can proceed with CAMVAP you must follow your Mazda dispute resolution process as outlined previously.

Customer Assistance

CAMVAP is fully implemented in all provinces and territories.

Consumers wishing to obtain further information about the Program should contact the Provincial Administrator at 1 (800) 207-0685, or by contacting the Canadian Motor Vehicle Arbitration Plan Office at:

Canadian Motor Vehicle Arbitration Plan

235 Yorkland Boulevard, suite 300

North York, Ontario

M2J 4Y8

<http://camvap.ca>

Provincial Administrators may be reached locally as listed below:

Province/Territory	CAMVAP Number
British Columbia & Yukon Territories	1 (800) 207-0685
Alberta & Northwest Territories	1 (800) 207-0685
Saskatchewan	1 (800) 207-0685
Manitoba	1 (800) 207-0685
Ontario	1 (800) 207-0685
Atlantic Canada	1 (800) 207-0685
Quebec	1 (800) 207-0685

▼ Regional Offices

REGIONAL OFFICES	AREAS COVERED
MAZDA CANADA INC. WESTERN REGION 8171 ACKROYD ROAD SUITE 2000 RICHMOND B.C. V6X 3K1 (604) 303-5670	ALBERTA, BRITISH COLUMBIA, MANITOBA, SASKATCHEWAN, YUKON
MAZDA CANADA INC. CENTRAL/ATLANTIC REGION 55 VOGELL ROAD, RICHMOND HILL, ONTARIO, L4B 3K5 (905) 787-7000	ONTARIO
MAZDA CANADA INC. QUEBEC REGION 6111 ROUTE TRANS CANADIENNE POINTE CLAIRE, QUEBEC H9R 5A5 (514) 694-6390	QUEBEC, NEW BRUNSWICK, NOVA SCOTIA, PRINCE EDWARD ISLAND, NEWFOUNDLAND

Customer Assistance

Customer Assistance (Puerto Rico)

Your complete and permanent satisfaction is our business. That is why all Authorized Mazda Dealers have the knowledge and the tools to keep your Mazda vehicle in top condition. If you have any questions or recommendations for improvement regarding the service of your Mazda vehicle or servicing by Mazda Dealer personnel, we recommend that you take the following steps:

▼ STEP 1

Discuss the matter with an Authorized Mazda Dealer. This is the quickest and best way to address the issue. If your concern has not been resolved by the CUSTOMER RELATIONS, SALES, SERVICE, or PARTS MANAGER, then please contact the GENERAL MANAGER of the dealership or the OWNER.

▼ STEP 2

If, after following STEP 1, you feel the need for further assistance, please contact your area's Mazda representative (Indicated on the next page).

Please help us by providing the following information:

1. Your name, address, and telephone number
2. Year and model of vehicle
3. Vehicle Identification Number (17 digits, noted on your registration or title or located on the upper driver's side corner of the dash)
4. Purchase date and current mileage
5. Your dealer's name and location
6. Your question(s)

Mazda Importer/Distributors

Importer/Distributor

▼ U.S.A.

Mazda North American Operations

7755 Irvine Center Drive
Irvine, CA 92618-2922 U.S.A.
P.O. Box 19734
Irvine, CA 92623-9734 U.S.A.
TEL: 1 (800) 222-5500 (in U.S.A.)
(949) 727-1990 (outside U.S.A.)

▼ CANADA

Mazda Canada Inc.

55 Vogell Road, Richmond Hill,
Ontario, L4B 3K5 Canada
TEL: 1 (800) 263-4680 (in Canada)
(905) 787-7000 (outside Canada)

▼ PUERTO RICO/U.S. Virgin Island

International Automotive Distributor Group, LLC. (Mazda de Puerto Rico)

P.O. Box 191850, San Juan, Puerto Rico
00919-1850
TEL: (787) 641-1777

▼ 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

Reporting Safety Defects (U.S.A.)

If you believe that your vehicle has a defect which could cause a crash or could cause injury or death, you should immediately inform the National Highway Traffic Safety Administration (NHTSA) in addition to notifying Mazda Motor Corporation (Your Mazda Importer/Distributor).

If NHTSA receives similar complaints, it may open an investigation, and if it finds that a safety defect exists in a group of vehicles, it may order a recall and remedy campaign. However, NHTSA cannot become involved in individual problems between you, your dealer, or Mazda Motor Corporation (Your Mazda Importer/Distributor).

To contact NHTSA, you may call the Vehicle Safety Hotline toll-free at 1-888-327-4236 (TTY:1-800-424-9153); go to <http://www.safercar.gov>; or write to: Administrator, NHTSA, 1200 New Jersey Avenue, SE., Washington, DC, 20590. You can also obtain other information about motor vehicle safety from <http://www.safercar.gov>.

NOTE

If you live in the U.S.A., all correspondence to Mazda Motor Corporation should be forwarded to:

Mazda North American Operations

7755 Irvine Center Drive

Irvine, California 92618-2922

or

P.O. Box 19734

Irvine, CA 92623-9734

Customer Assistance Center or toll free at 1 (800) 222-5500

If you live outside of the U.S.A., please contact the nearest Mazda Distributor shown (page 8-10) in this booklet.

Reporting Safety Defects

Reporting Safety Defects (Canada)

Canadian customers who wish to report a safety-related defect to Transport Canada, Defect Investigations and Recalls, may telephone the toll free hotline 1-800-333-0510, or contact Transport Canada by mail at: Transport Canada, ASFAD, Place de Ville Tower C, 330 Sparks Street, Ottawa ON K1A 0N5.

For additional road safety information, please visit the Road Safety website at:
<http://www.tc.gc.ca/roadsafety/menu.htm>

Warranty

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.

Warranty

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.

Warranty

Add-On Non-Genuine Parts and Accessories

Non-genuine parts and accessories for Mazda vehicles can be found in stores. These may fit your vehicle, but they are not approved by Mazda for use with Mazda vehicles. When you install non-genuine parts or accessories, they could affect your vehicle's performance or safety systems; the Mazda warranty doesn't cover this. Before you install any non-genuine parts or accessories, consult an Authorized Mazda Dealer.

WARNING

Always consult an Authorized Mazda Dealer before you install non-genuine parts or accessories:

Installation of non-genuine parts or accessories is dangerous. Improperly designed parts or accessories could seriously affect your vehicle's performance or safety systems. This could cause you to have an accident or increase your chances of injuries in an accident.

Be very careful in choosing and installing add-on electrical equipment, such as mobile telephones, two-way radios, stereo systems, and car alarm systems:

Incorrectly choosing or installing improper add-on equipment or choosing an improper installer is dangerous. Essential systems could be damaged, causing engine stalling, air-bag (SRS) activation, ABS/TCS/DSC inactivation, or a fire in the vehicle.

Mazda assumes no responsibility for death, injury, or expenses that may result from the installation of add-on non-genuine parts or accessories.

Cell Phones

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

Event Data Recorder

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 law suit, 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.

Uniform Tire Quality Grading System (UTQGS)

Uniform Tire Quality Grading System (UTQGS)

This information relates to the tire grading system developed by the U.S. National Highway Traffic Safety Administration for grading tires by tread wear, traction, and temperature performance.

▼ Tread Wear

The tread wear grade is a comparative rating based on the wear rate of the tire when tested under controlled conditions on a specified government test course. For example, a tire graded 150 would wear one-and-a-half times as well on the government course as a tire graded 100.

The relative performance of tires depends upon the actual conditions of their use, however, and may depart significantly from the norm because of variations in driving habits, service practices and differences in road characteristics and climate.

▼ Traction-AA, A, B, C

The traction grades, from highest to lowest, are AA, A, B, and C. These grades represent the tire's ability to stop on wet pavement as measured under controlled conditions on specified government test surfaces of asphalt and concrete. A tire marked C may have poor traction performance.

WARNING

The traction grade assigned to this tire is based on braking (straight ahead) traction tests and does not include acceleration cornering (turning), hydroplaning, or peak traction characteristics.

▼ Temperature-A, B, C

The temperature grades A (the highest), B, and C, represent the tire's resistance to the generation of heat and its ability to dissipate heat when tested under controlled conditions on a specified indoor laboratory test wheel.

Sustained high temperature can cause the material of the tire to degenerate and reduce tire life, and excessive temperatures can lead to sudden tire failure.

Grade C corresponds to a level of performance which all passenger vehicle tires must meet under the Federal Motor Vehicle Safety Standard No. 109. Grades B and A represent higher levels of performance on the laboratory test wheel than the minimum required by law.

Uniform Tire Quality Grading System (UTQGS)

WARNING

Keep your vehicle's tires properly inflated and not overloaded:

Driving with improperly inflated or overloaded tires is dangerous. Excessive speed, underinflation, or excessive loading, either separately or in combination, can cause heat buildup and possible tire failure. The temperature grade for this tire is established for a tire that is properly inflated and not overloaded.

These grades will be added to the sidewalls of passenger vehicle tires over the next several years according to a schedule established by the NHTSA and the tire manufacturers.

The grade of tires available as standard or optional equipment on Mazda vehicles may vary with respect to grade.

ALL PASSENGER VEHICLE TIRES MUST CONFORM TO THESE GRADES AND TO ALL OTHER FEDERAL TIRE-SAFETY REQUIREMENTS.

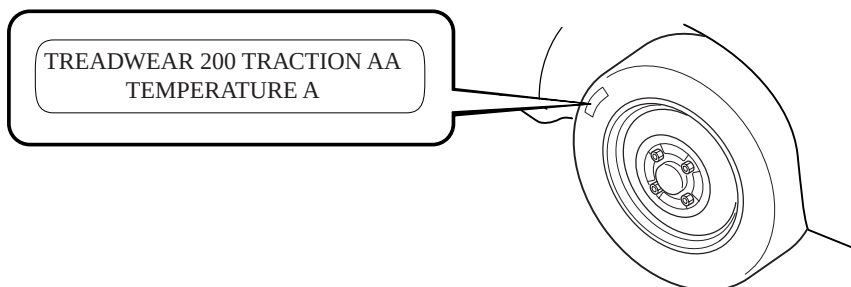
▼ UNIFORM TIRE QUALITY GRADING

Quality grades can be found where applicable on the tire sidewall between tread shoulder and maximum section width.

For example:

TREADWEAR 200 TRACTION AA TEMPERATURE A

UTQGS MARK (example)



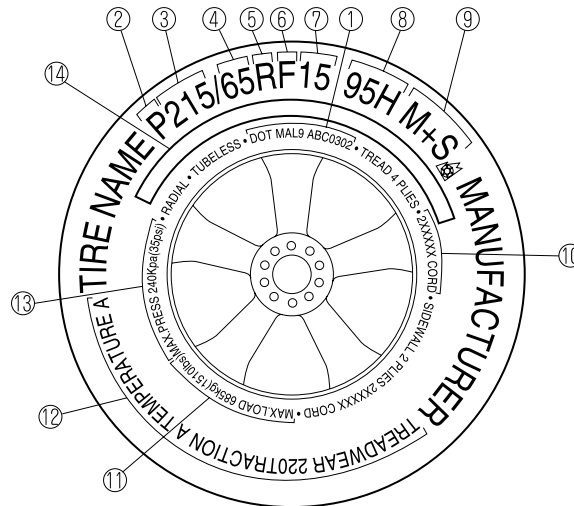
Tire Information (U.S.A.)

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

Tire Information (U.S.A.)

13. Max. permissible inflation pressure

14. SAFETY WARNING

P215/65R15 95H is an example of a tire size and load index rating. Here is an explanation of the various components of that tire size and load index rating. Note that the tire size and load index rating may be different from the example.

P

Indicates a tire that may be installed on cars, SUVs, minivans and light trucks as designated by the Tire and Rim Association (T&RA).

NOTE

If your tire size does not begin with a letter this may mean it is designated by either ETRTO (European Tire and Rim Technical Organization) or JATMA (Japan Tire Manufacturing Association).

215

“215” is the nominal width of the tire in millimeters. This three-digit number gives the width in millimeters of the tire from sidewall edge to sidewall edge. In general, the larger the number, the wider the tire.

65

“65” is the aspect ratio. This two-digit number indicates the tire's ratio of height to width.

R

“R” is the tire construction symbol. R indicates “Radial ply construction”.

15

“15” is the wheel rim diameter in inches.

95

“95” is the Load Index. This two-or three-digit number indicates how much weight each tire can support.

Tire Information (U.S.A.)

H

“H” is the speed rating. The speed rating denotes the maximum speed for which the use of the tire is rated.

Letter Rating	Speed Rating
Q	99 mph
R	106 mph
S	112 mph
T	118 mph
U	124 mph
H	130 mph
V	149 mph
W	168* mph
Y	186* mph

* For tires with a maximum speed capability over 149 mph, tire manufacturers sometimes use the letters ZR. For tires with a maximum speed capability over 186 mph, tire manufacturers always use the letters ZR.

M+S or M/S: Mud and Snow

AT: All Terrain.

AS: All Season. The “M+S” or “M/S” indicates that the tire has some functional use in mud and snow.

U.S. DOT Tire Identification Number (TIN)

This begins with the letters “DOT” which indicates the tire meets all federal standards. The next two numbers or letters are the plant code where it was manufactured, and the last four numbers represent the week and year the tire was manufactured. For example, the numbers 457 means the 45th week of 1997. After 2000 the numbers go to four digits. For example, the number 2102 means the 21th week of 2002. The other numbers are marketing codes used at the manufacturer's discretion. This information is used to contact consumers if a tire defect requires a recall.

Tire Ply Composition and Materials Used

The number of plies indicates the number of layers of rubber-coated fabric in the tire.

In general, the greater the number of plies, the more weight a tire can support. Tire manufacturers also must indicate the tire materials, which include steel, nylon, polyester, and other.

Maximum Load Rating

This number indicates the maximum load in kilograms and pounds that can be carried by the tire.

Tire Information (U.S.A.)

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.

Traction: The traction grades, from highest to lowest are AA, A, B, and C. The grades represent the tire's ability to stop on wet pavement as measured under controlled conditions on specified government test surfaces of asphalt and concrete. A tire marked C may have poor traction performance.

Temperature: The temperature grades are A (the highest), B and C, representing the tire's resistance to the generation of heat and its ability to dissipate heat when tested under controlled conditions on a specified indoor laboratory test wheel.

Snow Tires

In some heavy snow areas, local governments may require true snow tires, those with very deeply cut tread. These tires should only be used in pairs or placed on all four wheels. Make sure you purchase snow tires that are the same size and construction type as the other tires on your vehicle.

SAFETY WARNING

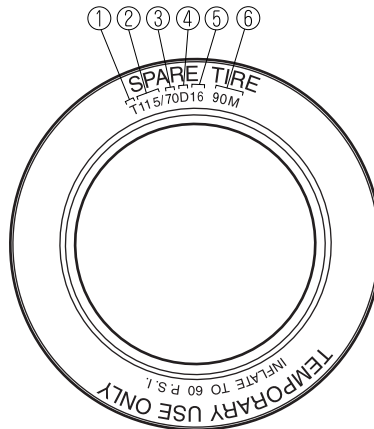
The following safety warning appears on the tire's sidewall.
SERIOUS INJURY MAY RESULT FROM:

- EXPLOSION OF TIRE/RIM ASSEMBLY DUE TO IMPROPER MOUNTING-MATCH TIRE DIAMETER TO RIM DIAMETER; NEVER EXCEED 40 psi (275 kPa) TO SEAT BEADS-ONLY SPECIALLY TRAINED PERSONS SHOULD MOUNT TIRES.
- TIRE FAILURE DUE TO UNDER-INFLATION/OVERLOADING/DAMAGE-FOLLOW OWNER'S MANUAL AND PLACARD IN VEHICLE-FREQUENTLY CHECK INFLATION PRESSURE AND INSPECT FOR DAMAGE.

Tire Information (U.S.A.)

▼ Information on Temporary Tires

Please refer to the sample below.



1. Temporary tires
2. Nominal width of tire in millimeters
3. Ratio of height to width (aspect ratio)
4. Diagonal
5. Rim diameter code
6. Load index & speed symbol

T115/70D 16 90M is an example of a tire size and load index rating. Here is an explanation of the various components of that tire size and load index rating. Note that the tire size and load index rating may be different from the example.

T

Indicates a tire that may be installed on cars, SUVs, minivans and light trucks as designated by the Tire and Rim Association (T&RA).

115

“115” is the nominal width of the tire in millimeters. This three-digit number gives the width in millimeters of the tire from sidewall edge to sidewall edge. In general, the larger the number, the wider the tire.

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”.

Tire Information (U.S.A.)

16

“16” is the wheel rim diameter in inches.

90

“90” is the Load Index. This two-or three-digit number indicates how much weight each tire can support.

M

“M” is the speed rating. The speed rating denotes the maximum speed for which the use of the tire is rated.

Letter Rating	Speed Rating
M	81 mph

Tire Information (U.S.A.)

Location of the Tire Label (Placard)

You will find the tire label containing tire inflation pressure by tire size and other important information on the driver's side B-pillar or on the edge of the driver's door frame.

SAMPLE

TIRE AND LOADING INFORMATION RENSEIGNEMENTS SUR LES PNEUS ET LE CHARGEMENT				
SEATING CAPACITY NOMBRE DE PLACES		TOTAL 5	FRONT 2 AVANT 2	REAR 3 ARRIÈRE 3
The combined weight of occupants and cargo should never exceed xxx kg or xxx lbs.* Le poids total des occupants et du chargement ne doit jamais dépasser xxx kg ou xxx lb.*				
TIRE PNEU	SIZE DIMENSIONS	COLD TIRE PRESSURE PRESSION DES PNEUS À FROID		SEE OWNER'S MANUAL FOR ADDITIONAL INFORMATION VOIR LE MANUEL DE L'USAGER POUR PLUS DE RENSEIGNEMENTS
FRONT AVANT	P195/70R14	200 kPa, 29 psi		
REAR ARRIÈRE	P195/70R14	200 kPa, 29 psi		
SPARE DE SECOURS	T125/70D15	420 kPa, 60 psi		

▼ Recommended Tire Inflation Pressure

On the tire label you will find the recommended tire inflation pressure in both kPa and psi for the tires installed as original equipment on the vehicle. It is very important that the inflation pressure of the tires on your vehicle is maintained at the recommended pressure. You should check the tire pressure regularly to insure that the proper inflation pressure is maintained.

Refer to Tires on page 9-9.

NOTE

Tire pressures listed on the vehicle placard or tire information label indicate the recommended cold tire inflation pressure, measured when the tires are cold, after the vehicle has been parked for at least 3 hours. As you drive, the temperature in the tire warms up, increasing the tire pressure.

Tire Information (U.S.A.)

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.

Tire Information (U.S.A.)

▼ Glossary of Terms

Tire Placard: A label indicating the OE tire sizes, recommended inflation pressure, and the maximum weight the vehicle can carry.

Tire Identification Number (TIN): A number on the sidewall of each tire providing information about the tire brand and manufacturing plant, tire size, and date of manufacture.

Inflation Pressure: A measure of the amount of air in a tire.

kPa: Kilopascal, the metric unit for air pressure.

psi: Pounds per square inch, the English unit for air pressure.

B-pillar: The structural member at the side of the vehicle behind the front door.

Original Equipment (OE): Describes components originally equipped on the vehicle.

Vehicle Load Limit: The maximum value of the combination weight of occupants and cargo.

Bead Area of the Tire: Area of the tire next to the rim.

Sidewall Area of the Tire: Area between the bead area and the tread.

Tread Area of the Tire: Area on the perimeter of the tire that contacts the road when it's mounted on the vehicle.

Seating capacity means the total allowable number of vehicle occupants. Seating capacity is described on the tire label.

Production options weight is the combination weight of installed regular production options weighing over 2.3 kilograms in excess of the standard items which they replace, and not previously considered in the curb weight or accessory weight, including heavy duty brakes, ride levelers, roof rack, heavy duty battery, and special trim.

Rim is the metal support (wheel) for a tire or a tire and tube assembly upon which the tire beads are seated.

Tire Information (U.S.A.)

Tire Maintenance

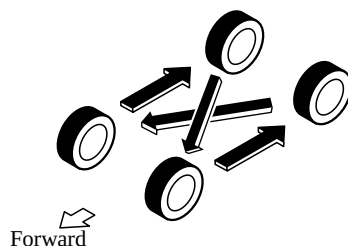
Improper or inadequate vehicle maintenance can cause tires to wear abnormally. Here are some important maintenance points:

▼ 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 8,000km (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 9-9) and inspect the lug nuts for tightness.

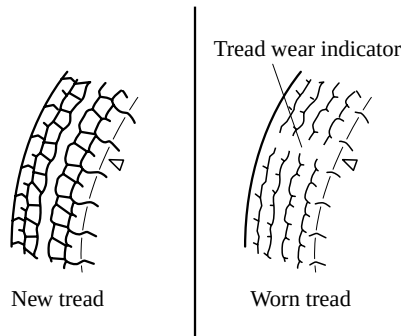
⚠ CAUTION

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 8-21.

▼ 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

Tire Information (U.S.A.)

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

WARNING

Do not tow a trailer with this vehicle:

Towing a trailer with this vehicle is dangerous because it has not been designed to tow a trailer and doing so will affect the drive system which could result in vehicle damage.

This section will guide you in the proper loading of your vehicle, to keep your loaded vehicle weight within its design rating capability. 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, from the vehicle's Safety Certification Label and Tire and Load Information Label:

WARNING

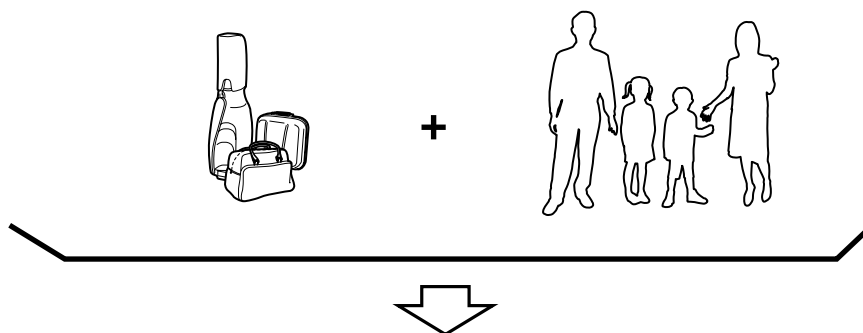
Overloaded Vehicle:

Overloading a vehicle is dangerous. The results of overloading can have serious consequences in terms of passenger safety. Too much weight on a vehicle's suspension system can cause spring or shock absorber failure, brake failure, handling or steering problems, irregular tire wear, tire failure or other damage. Overloading makes a vehicle harder to drive and control. It also increases the distance required for stopping. In cases of serious overloading, brakes can fail completely, particularly on steep grades. The load a tire will carry safely is a combination of the size of the tire, its load range, and corresponding inflation pressure. Never overload the vehicle and always observe the vehicle's weight ratings from the vehicle's Safety Certification and Tire and Load Information labels.

Tire Information (U.S.A.)

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

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.

Tire Information (U.S.A.)

SAMPLE

TIRE AND LOADING INFORMATION RENSEIGNEMENTS SUR LES PNEUS ET LE CHARGEMENT			
SEATING CAPACITY NOMBRE DE PLACES		TOTAL 5	FRONT AVANT 2 REAR ARRIÈRE 3
The combined weight of occupants and cargo should never exceed xxx kg or xxx lbs.* Le poids total des occupants et du chargement ne doit jamais dépasser xxx kg ou xxx lb.*			
TIRE PNEU	SIZE DIMENSIONS	COLD TIRE PRESSURE PRESSION DES PNEUS À FROID	SEE OWNER'S MANUAL FOR ADDITIONAL INFORMATION VOIR LE MANUEL DE L'USAGER POUR PLUS DE RENSEIGNEMENTS
FRONT AVANT	P195/70R14	200 kPa, 29 psi	
REAR ARRIÈRE	P195/70R14	200 kPa, 29 psi	
SPARE DE SECOURS	T125/70D15	420 kPa, 60 psi	



CARGO

Cargo Weight includes all weight added to the Base Curb Weight, including cargo and optional equipment.

The cargo weight limit decreases depending on the number of vehicle occupants. The cargo weight limit can be calculated by subtracting the total weight of the vehicle occupants from the “combination weight of occupants and cargo should never exceed” value on the tire label.

Tire Information (U.S.A.)

Examples: Based on a single occupant weight of 68 kg (150 lbs), and a value of 385 kg (849 lbs) for the “combination weight of occupants and cargo should never exceed”:

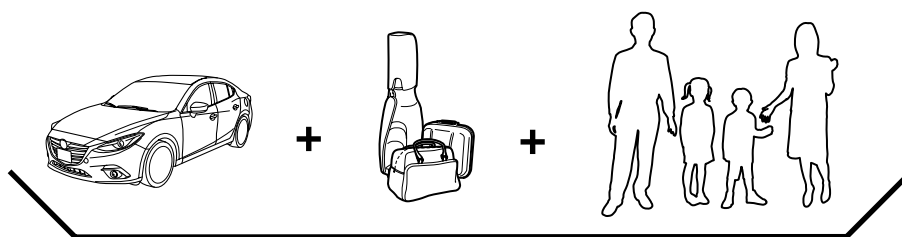
The cargo weight limit with one occupant is $385 \text{ kg (849 lbs)} - 68 \text{ kg (150 lbs)} = 317 \text{ kg (699 lbs)}$

The cargo weight limit with two occupants is $385 \text{ kg (849 lbs)} - (68 \times 2) \text{ kg (150} \times 2 \text{ lbs)} = 249 \text{ kg (549 lbs)}$

If the weight of the occupant increases, the cargo weight limit decreases by that much.

GAW (Gross Axle Weight) is the total weight placed on each axle (front and rear) - including vehicle curb weight and all payload.

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

GVW (Gross Vehicle Weight) is the Vehicle Curb Weight + cargo + passengers.

GVWR (Gross Vehicle Weight Rating) is the maximum allowable weight of the fully loaded vehicle (including all options, equipment, passengers and cargo). **The GVWR is shown on the Safety Compliance Certification Label located on the driver's door frame or door pillar. The GVW must never exceed the GVWR.**

Tire Information (U.S.A.)

GCW (Gross Combination Weight) is the weight of the loaded vehicle (GVW).

GCWR (Gross Combination Weight Rating) is the maximum allowable weight of the vehicle - including all cargo and passengers - that the vehicle can handle without risking damage. **The GCW must never exceed the GCWR.**

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

Declaration of Conformity

▼ Keyless Entry System/Immobilizer System

FCC WARNING

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

FCC/IC

This device complies with Part 15 of FCC Rules and 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 this device.

Le présent appareil est conforme aux la Partie 15 des règles de la FCC et 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.

Customer Information and Reporting Safety Defects
Declaration of Conformity

▼ **Blind Spot Monitoring (BSM) System**

(U.S.A)

FCC ID : OAYSRR2A

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)

Applicable law : Canada 310

This device complies with the radio standards specification RSS-310 of Industry Canada.

Operation is subject to the following two conditions:

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

Frequency bands : 24.05 - 24.25GHz

Output power : less than 20 milliwatts

Droit applicable : Canada 310

Le présent appareil est conforme aux CNR d'Industrie RSS-310 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.

Bandes de fréquences : 24.05 - 24.25GHz

Puissance émise : Moins de 20 milliwatts

NOTE

During printing time of this user manual the approvals listed above are granted.

! WARNING

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

Declaration of Conformity

▼ HomeLink Wireless Control System

CAUTION

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

NOTE

FCC ID: NZLMOBHL4

CANADA:4112A-MOBHL4

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.*

▼ Bluetooth® Hands-Free

Type A

FCC ID: NT8MBLUEC09 IC:3043A-MBLUEC09

This device complies with Part 15 of the FCC Rules and with RSS-247 of Industry Canada. Operation is subject to the following two conditions:

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

WARNING

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

The term "IC: " before the radio certification number only signifies that Industry Canada technical specifications were met.

The antenna used for this transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. End-users and installers must be provided with installation instructions and transmitter operating conditions for satisfying RF exposure compliance.

Declaration of Conformity

Type B - Model: MAZDA GEN 65 CMU

FCC ID: NT862932 IC: 3043A-62932

FCC/IC Regulatory Notice

Modification statement

Visteon Corporation has not approved any changes or modifications to this device by the user. Any changes or modifications could void the user's authority to operate the equipment.

Visteon Corporation n'approuve aucune modification apportée à l'appareil par l'utilisateur, quelle qu'en soit la nature. Tout changement ou modification peuvent annuler le droit d'utilisation de l'appareil par l'utilisateur.

Interference statement

This device complies with Part 15 of the FCC Rules and 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.

Radiation Exposure Statement

This device complies with FCC/IC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines in Supplement C to OET65 and RSS-102 of the IC radio frequency (RF) Exposure rules. The antenna should be installed and operated with minimum distance of 20 cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Le présent appareil est conforme à l'exposition aux radiations FCC / IC définies pour un environnement non contrôlé et répond aux directives d'exposition de la fréquence de la FCC radiofréquence (RF) dans le Supplément C à OET65 et RSS-102 de la fréquence radio (RF) IC règles d'exposition. L'antenne doit être installé de façon à garder une distance minimale de 20 centimètres entre la source de rayonnements et votre corps. L'émetteur ne doit pas être colocalisé ni fonctionner conjointement avec à autre antenne ou autre émetteur.

Mazda Bluetooth® Hands-Free Customer Service

- U.S.A.
Phone: 800-430-0153 (Toll-free)
Web: www.MazdaUSA.com/bluetooth
- Canada
Phone: 800-430-0153 (Toll-free)
Web: www.mazdahandsfree.ca

Service Publications

Service Publications

Factory-authorized Mazda service publications are available for owners who wish to do some of their own maintenance and repair.

When requesting any of our publications through an Authorized Mazda Dealer, refer to the chart below.

If they do not have what you need in stock, they can order it for you.

PUBLICATION ORDER NUMBER	PUBLICATION DESCRIPTION
9999-95-017B-14	2014 WORKSHOP MANUAL (English)
9999-MX-017B-14	2014 WORKSHOP MANUAL (Spanish)
9999-95-019G-14	2014 WIRING DIAGRAM (English)
9999-MX-019G-14	2014 WIRING DIAGRAM (Spanish)
9999-95-038C-14	2014 OWNER'S MANUAL (English)
9999-EC-038C-14	2014 OWNER'S MANUAL (English and French)
9999-PR-038C-14	2014 OWNER'S MANUAL (Spanish)
9999-95-064F-14	2014 SERVICE HIGHLIGHTS
9999-95-038C-14NAV	2014 NAVIGATION SYSTEM OWNER'S MANUAL (English)
9999-EC-038C-14NAV	2014 NAVIGATION SYSTEM OWNER'S MANUAL (English and French)
9999-PR-038C-14NAV	2014 NAVIGATION SYSTEM OWNER'S MANUAL (Spanish)

▼ WORKSHOP MANUAL:

Covers recommended maintenance and repair procedures of the drive train, body and chassis.

▼ WIRING DIAGRAM:

Provides electrical schematics as well as component location for the entire electrical system.

▼ OWNER'S MANUAL:

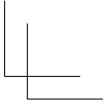
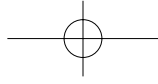
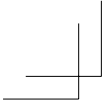
This booklet contains information regarding the proper care and operation of your vehicle. This is not a technician's manual.

▼ SERVICE HIGHLIGHTS:

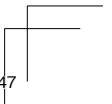
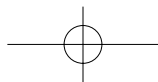
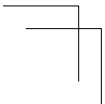
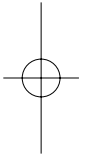
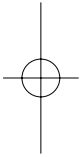
Provides description and operation of the many systems of your Mazda.

▼ NAVIGATION SYSTEM OWNER'S MANUAL:

This booklet contains information regarding the proper operation and use of the navigation system. This is not a technician's manual.



MEMO



9 Specifications

Technical information about your Mazda.

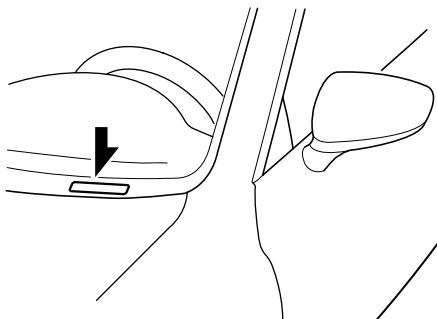
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Identification Numbers

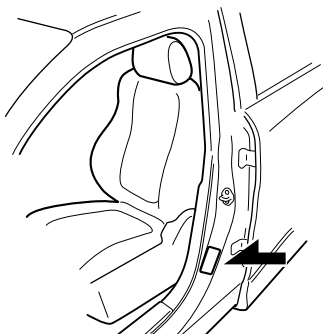
Vehicle Information Labels

▼ Vehicle Identification Number

The vehicle identification number legally identifies your vehicle. The number is on a plate attached to the cowl panel located on the left corner of the dashboard. This plate can easily be seen through the windshield.

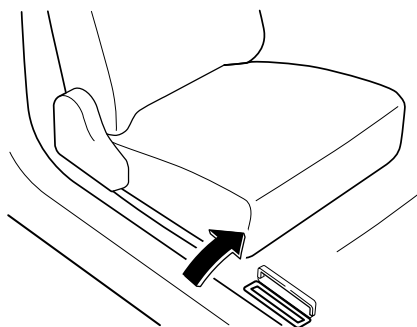


▼ Motor Vehicle Safety Standard Label

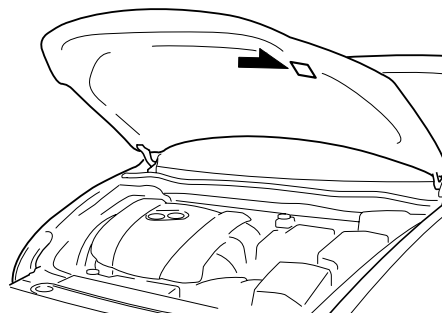


▼ Chassis Number

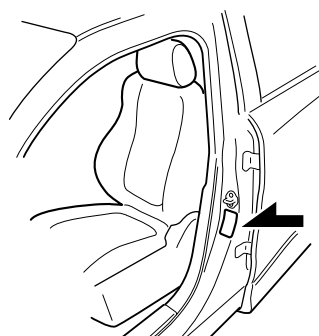
Open the cover shown in the figure to check the chassis number.



▼ Vehicle Emission Control Information Label



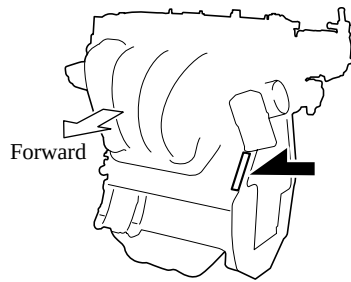
▼ Tire Pressure Label



Specifications

Identification Numbers

▼ Engine Number



Specifications

Specifications

Specifications

▼ Engine

Item	Specification	
	SKYACTIV-G 2.0	SKYACTIV-G 2.5
Type	DOHC-16V in-line, 4-cylinder	
Bore × Stroke	83.5 × 91.2 mm (3.29 × 3.59 in)	89.0 × 100 mm (3.50 × 3.94 in)
Displacement	1,998 ml (1,998 cc)	2,488 ml (2,488 cc)
Compression ratio	13.0	

▼ Electrical System

Item	Classification	
Battery	Q-85*1	
	12V-60Ah/20HR*2 or 12V-65Ah/20HR*2	
Spark-plug number	Mazda Genuine spark plug*3	PE5R-18-110 or PE5S-18-110

*1 Q-85 is designed for i-ELOOP system. Only Q-85 should be used to ensure correct operation of i-ELOOP system. Consult an Authorized Mazda Dealer for details.

*2 Not for i-ELOOP system.

*3 This spark plug provides the SKYACTIV-G engine with optimum performance. Contact 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	Classification	
Engine oil	Refer to Recommended Oil on page 6-20.	
Manual transaxle oil	API Service	GL-4
	SAE	75W-80
Automatic transaxle fluid	Mazda Genuine ATF FZ	
Brake/Clutch fluid	SAE J1703 or FMVSS116 DOT-3	

NOTE

Refer to Introduction on (page 6-2) for owner's responsibility in protecting your investment.

9-4

Specifications

Specifications

▼ Capacities

(Approximate Quantities)

Item			Capacity
Engine oil	SKYACTIV-G 2.0	With oil filter replacement	4.2 L (4.4 US qt, 3.7 Imp qt)
		Without oil filter replacement	4.0 L (4.2 US qt, 3.5 Imp qt)
	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)
Coolant	SKYACTIV-G 2.0	Manual transaxle	6.3 L (6.7 US qt, 5.5 Imp qt)
		Automatic transaxle	6.5 L (6.9 US qt, 5.7 Imp qt)
	SKYACTIV-G 2.5		6.8 L (7.2 US qt, 6.0 Imp qt)
Manual transaxle oil			1.70 L (1.80 US qt, 1.50 Imp qt)
Automatic transaxle fluid			7.8 L (8.2 US qt, 6.9 Imp qt)
Fuel tank			50.0 L (13.2 US gal, 11.0 Imp gal)

Check oil and fluid levels with dipsticks or reservoir gauges.

Specifications

Specifications

▼ Dimensions

4-Door

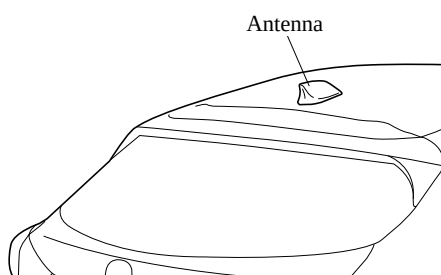
Item	Vehicle specification
Overall length	4,580 mm (180.3 in)
Overall width	1,795 mm (70.7 in)
Overall height	1,455 mm (57.3 in)
Front tread	1,555 mm (61.2 in)
Rear tread	1,560 mm (61.4 in)
Wheelbase	2,700 mm (106.3 in)

5-Door

Item	Vehicle specification
Overall length	4,460 mm (175.6 in)
Overall width	1,795 mm (70.7 in)
Overall height*1	Type A 1,470 mm (57.9 in)
	Type B 1,455 mm (57.3 in)
Front tread	1,555 mm (61.2 in)
Rear tread	1,560 mm (61.4 in)
Wheelbase	2,700 mm (106.3 in)

*1 The overall height is categorized according to the antenna type as follows:

Type A



Type B

Except above.

Specifications

▼ Weights

SKYACTIV-G 2.0

Item		Weight	
		Manual transaxle	Automatic transaxle
GVWR (Gross Vehicle Weight Rating)		1,772 kg (3,907 lbs)	1,815 kg (4,001 lbs)
GAWR (Gross Axle Weight Rating)	Front	925 kg (2,039 lbs)	975 kg (2,149 lbs)
	Rear	855 kg (1,885 lbs)	848 kg (1,870 lbs)

SKYACTIV-G 2.5

Item		Weight
GVWR (Gross Vehicle Weight Rating)		1,847 kg (4,072 lbs)
GAWR (Gross Axle Weight Rating)	Front	997 kg (2,198 lbs)
	Rear	854 kg (1,883 lbs)

▼ Air Conditioner

The type of refrigerant used is indicated on a label attached to the inside of the engine compartment. Check the label before recharging the refrigerant.
Refer to Climate Control System on page 5-2.

Item	Classification
Refrigerant Type	HFC134a (R-134a)

Specifications

Specifications

▼ Light Bulbs

Exterior light

Light bulb			Category	
			Wattage	ECE R (SAE)
Headlights	Halogen	High beam	60	HB3 (9005)
		Low beam	55	H11 (H11)
	Xenon fusion	High/Low beam	35	D4S (D4S)
Daytime running lights	With halogen bulb headlights		60	HB3 (9005)
	With xenon fusion bulb headlights		LED*1	— (—)
Parking lights (Front side-marker lights)	With halogen bulb headlights		5	WY5W (—)
Front side-marker lights	With xenon fusion bulb headlights		5	W5W (—)
Parking lights	With xenon fusion bulb headlights		LED*1	— (—)
Front turn signal lights			21	WY21W (7443NA)
Fog lights*			55	H11 (H11)
Side turn signal lights*			LED*1	— (—)
High-mount brake light			LED*1	— (—)
Rear turn signal lights			21	WY21W (7443NA)
Brake lights/ Taillights/Rear side-marker lights	LED type		LED*1	— (—)
	Bulb type		21/5	W21/5W (7443)
Taillights (Liftgate side/Trunk lid side)*			LED*1	— (—)
Reverse lights	4-Door		18	W16W (921)
	5-Door		21	W21W (7440)
License plate lights			5	W5W (—)

*1 LED is the abbreviation for Light Emitting Diode.

Interior light

Light bulb	Category	
	Wattage	ECE R
Trunk light (4-Door)	3	—
Luggage compartment light (5-Door)	5	—
Overhead light (Front)/Map lights*	8	—
Overhead light (Front)*	10	—
Overhead light (Rear)*	10	—
Vanity mirror lights*	2	—

9-8 *Some models.

▼ Tires

NOTE

*The tires have been optimally matched with the chassis of your vehicle.
When replacing tires, Mazda recommends that you replace tires of the same type originally fitted to your vehicle. For details, contact an Authorized Mazda Dealer.*

Check the tire pressure label for tire size and inflation pressure.

Refer to Tire Inflation Pressure on page 6-32.

After adjusting the tire pressure, initialization of the tire pressure monitoring system is necessary to make the system operates normally.

Refer to Tire Pressure Monitoring System Initialization on page 4-90.

Standard tire

Tire size	Inflation pressure	
	Front	Rear
P205/60R16 91H	250 kPa (36 psi)	250 kPa (36 psi)
215/45R18 89W	250 kPa (36 psi)	250 kPa (36 psi)

Temporary spare tire

Tire size	Inflation pressure
T125/70D16 96M	420 kPa (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)

▼ Fuses

Refer to Fuses on page 6-49.

Specifications

Personalization Features

Personalization Features

The following Personalization Feature is available. This setting can only be changed by an Authorized Mazda Dealer.

Items in which the feature setting can be changed differ depending on the market and specification.

Item	Feature	Factory Setting	Available Settings
Daytime running lights	The function of the daytime running lights can be changed.	On	On/Off

The following Personalization Features can be changed by the vehicle owner. Items in which the feature setting can be changed differ depending on the market and specification.

Item	Feature	Factory Setting	Available Settings
Power door lock	Changes the auto lock/unlock function setting for all the doors according to the vehicle speed, the vehicle power supply condition, and the selector lever position. Refer to Auto Lock/Unlock Function on page 3-17. Refer to Settings on page 5-55.	Lock: When Driving Unlock: IGN Off	Lock: Shifting from Park Unlock: In Park/ Lock: Shifting from Park/ Lock: When Driving Unlock: IGN Off/ Lock: When Driving/ Off
Keyless entry system	The method for unlocking the doors using the transmitter can be changed. Refer to Transmitter on page 3-4. Refer to Settings on page 5-55.	Once: Driver's Twice: All Doors	Once: All Doors/ Once: Driver's Twice: All Doors
	The time required for the doors to relock automatically after unlocking with the transmitter can be changed. Refer to Settings on page 5-55.	60 seconds	90 seconds/ 60 seconds/ 30 seconds

Personalization Features

Item	Feature	Factory Setting	Available Settings
Advanced keyless entry system	The volume of the answer-back beep during advanced keyless entry system operation can be changed. Refer to Locking, Unlocking with Request Switch (With the advanced keyless function) on page 3-13. Refer to Settings on page 5-55.	Medium	High/Medium/ Low/Off
	The function to automatically lock the doors when leaving the vehicle while carrying the key can be changed. Refer to Settings on page 5-55.	Off	On/Off
	The method for unlocking the doors using the request switch/transmitter can be changed. Refer to Locking, Unlocking with Request Switch (With the advanced keyless function) on page 3-13. Refer to Transmitter on page 3-4. Refer to Settings on page 5-55.	Once: Driver's Twice: All Doors	Once: All Doors/ Once: Driver's Twice: All Doors
	The time required for the doors to relock automatically after unlocking with the request switch/transmitter can be changed. Refer to Settings on page 5-55.	60 seconds	90 seconds/ 60 seconds/ 30 seconds
Illumination entry	The time required for the interior lamp to turn off automatically can be changed (prevents battery depletion when a door is open/ajar). Refer to Settings on page 5-55.	30 minutes	60 minutes/ 30 minutes/ 10 minutes
	The time required for the interior lamp to turn off automatically after all doors are closed can be changed. Refer to Settings on page 5-55.	15 seconds	60 seconds/ 30 seconds/ 15 seconds/ 7.5 seconds
Lane-change signal	The three-time flash function can be changed. Refer to Settings on page 5-55.	On	On/Off
Auto-wiper control	The auto-wiper control function can be changed. Refer to Settings on page 5-55.	On	On/Off
Auto headlight off ^{*1}	The time required for headlights to turn off after ignition is switched off can be changed. Refer to Settings on page 5-55.	30 seconds	120 seconds/ 90 seconds/ 60 seconds/ 30 seconds/ Off ^{*2}
Auto-light control	The headlight illumination on/off timing based on surrounding lightness/darkness can be changed. Refer to Settings on page 5-55.	Medium	Light/ Medium Light/ Medium/ Medium Dark/ Dark
High Beam Control System (HBC)	The High Beam Control System (HBC) function can be changed. ^{*3} Refer to Settings on page 5-55.	On	On/Off

Specifications

Personalization Features

Item	Feature	Factory Setting	Available Settings
Turn indicator	The turn indicator beep volume level can be changed. Refer to Settings on page 5-55.	High	High/Low
Lights-on reminder ^{*4}	The volume of the lights-on reminder warning alarm can be changed. Refer to Settings on page 5-55.	Off	High/Low/Off
Blind Spot Monitoring (BSM) system	The volume of the BSM warning beep can be changed. ^{*5} Refer to Settings on page 5-55.	High	High/Low/Off
Lane Departure Warning System (LDWS)	The warning sound for the Lane Departure Warning System (LDWS) can be changed. ^{*6} Refer to Settings on page 5-55.	Beep	Beep/Rumble Strip
	The volume of the warning sound for the Lane Departure Warning System (LDWS) can be changed. Refer to Settings on page 5-55.	Rumble strip	High/Mid/Low
		Beep	High/Low
	The sensitivity of the warning for the Lane Departure Warning System (LDWS) can be changed. Refer to Settings on page 5-55.	Low	High/Low
	The warning timing in which the Lane Departure Warning System (LDWS) determines that the vehicle may be deviating from its lane can be changed. Refer to Settings on page 5-55.	Before line	At line/Before line
Meter display	The distance unit can be changed. Refer to Settings on page 5-55.	Miles or Km	Miles/Km
	The display language can be changed. Refer to Settings on page 5-55.	English, French, or Spanish	English/French/Spanish
	The temperature unit can be changed. Refer to Settings on page 5-55.	F° or C°	F°/C°
Smart City Brake Support (SCBS)	The system can be changed so that Smart City Brake Support (SCBS) does not operate. ^{*3} Refer to Settings on page 5-55.	On	On/Off
Fuel Economy Monitor	Setting can be changed so that the ending screen of the Fuel Economy Monitor is displayed. Refer to Fuel Economy Monitor on page 4-80.	OFF	ON/OFF
Fuel economy resetting procedure	Setting can be changed so that the fuel economy reset is linked with the trip meter reset. Refer to Fuel Economy Monitor on page 4-80.	OFF	ON/OFF
Active Driving Display (ADD)	Setting can be changed so that the Turn-by-Turn (TBT) of the Active Driving Display (ADD) is not displayed. Refer to Active Driving Display (ADD) on page 4-18.	On	On/Off

Personalization Features

*1 If the setting is changed to Off, the following operation is performed according to the headlight switch position:

- At AUTO position: Headlights turn off immediately after the ignition is switched off.
- At any position other than AUTO: Headlights do not turn off after the ignition is switched off.

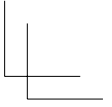
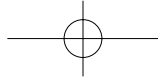
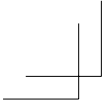
*2 When set to Off, the lights-on reminder is operable.

*3 Though these systems can be turned Off, doing so will defeat the purpose of the system and Mazda recommends that these systems remain On.

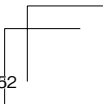
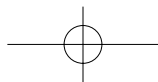
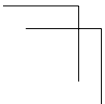
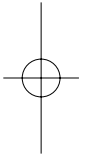
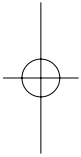
*4 The setting of the lights-on reminder can be changed with the time setting of auto headlight off function set to Off. Refer to Lights-On Reminder on page 7-35.

*5 Only the volume of the warning beep during Blind Spot Monitoring (BSM) operation can be changed. The volume of the warning beep during Rear Cross Traffic Alert (RCTA) operation cannot be changed.

*6 For vehicles with an audio system other than the on-screen function type, the warning sound cannot be changed. The warning sound is only a beep.



MEMO



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