

Maintenance and Care

Scheduled Maintenance

▼ Schedule 2

Maintenance Interval		Number of months or kilometers (miles), whichever comes first												
		Months	4	8	12	16	20	24	28	32	36	40	44	48
		×1000 km	8	16	24	32	40	48	56	64	72	80	88	96
		×1000 miles	5	10	15	20	25	30	35	40	45	50	55	60
ENGINE														
Engine valve clearance		Audible inspect every 120,000 km (75,000 miles), if noisy, adjust												
Drive belts (tension)								I						
Engine oil	Puerto Rico	Replace every 5,000 km (3,000 miles) or 3 months												
	Others	R	R	R	R	R	R	R	R	R	R	R	R	R
Engine oil filter		R	R	R	R	R	R	R	R	R	R	R	R	R
COOLING SYSTEM														
Cooling system								I						I
Engine coolant	FL22 type *1	Replace at first 192,000 km (120,000 miles) or 10 years; after that, every 96,000 km (60,000 miles) or 5 years												
	Others	Replace at first 96,000 km (60,000 miles) or 4 years; after that, every 2 years												
Engine coolant level		I	I	I	I	I	I	I	I	I	I	I	I	I
FUEL SYSTEM														
Air filer	Puerto Rico							R						R
	Others								R					
Fuel lines and hoses *2								I						I
Hoses and tubes for emission *2														I
IGNITION SYSTEM														
Spark plugs (without turbocharger)		Replace every 120,000 km (75,000 miles)												
Spark plugs (with turbocharger)	USA	Replace every 96,000 km (60,000 miles)												
	Others *3	Replace every 120,000 km (75,000 miles)												
ELECTRICAL SYSTEM														
Function of all lights		I	I	I	I	I	I	I	I	I	I	I	I	I

Scheduled Maintenance

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	×1000 km	8	16	24	32	40	48	56	64	72	80	88	96
	×1000 miles	5	10	15	20	25	30	35	40	45	50	55	60
CHASSIS and BODY													
Brake lines, hoses and connections							I						I
Brake 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
Power steering fluid level	I	I	I	I	I	I	I	I	I	I	I	I	I
Front and rear suspension, ball joints and wheel bearing axial play						I							I
Driveshaft dust boots						I							I
Exhaust system and heat shields	Inspect every 72,000 km (45,000 miles) or 5 years												
All locks and hinges	L	L	L	L	L	L	L	L	L	L	L	L	L
Washer fluid level	I	I	I	I	I	I	I	I	I	I	I	I	I
Bolts and nuts on chassis and body						T							T
AIR CONDITIONER SYSTEM (if installed)													
Cabin air filter	Replace every 40,000 km (25,000 miles) or 2 years												

Chart symbols:

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

R: Replace

L: Lubricate

T: Tighten

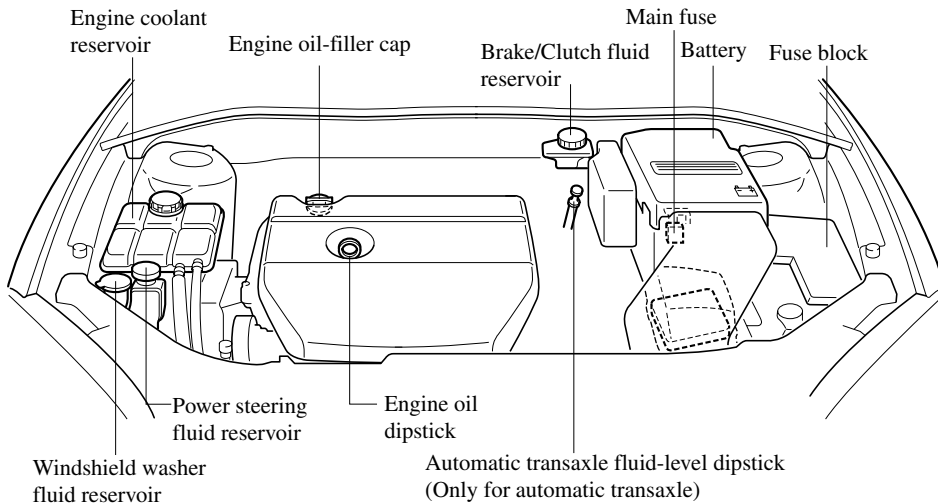
Remarks:

- *1 Use FL22 type coolant in vehicles with the inscription "FL22" on the radiator cap itself or the surrounding area. Use FL22 when replacing the coolant.
- *2 According to state/provincial and federal regulations, failure to perform maintenance on these items will not void your emissions warranties. However, Mazda recommends that all maintenance services be performed at the recommended time or mileage/kilometer period to ensure long-term reliability.
- *3 If the vehicle is operated under any of the following conditions, replace the spark plugs every 96,000 km (60,000 miles) or shorter.
 - a) Repeated short-distance driving
 - b) Extended periods of idling or low-speed operation
 - c) Driving for long periods in cold temperatures or extremely humid climates

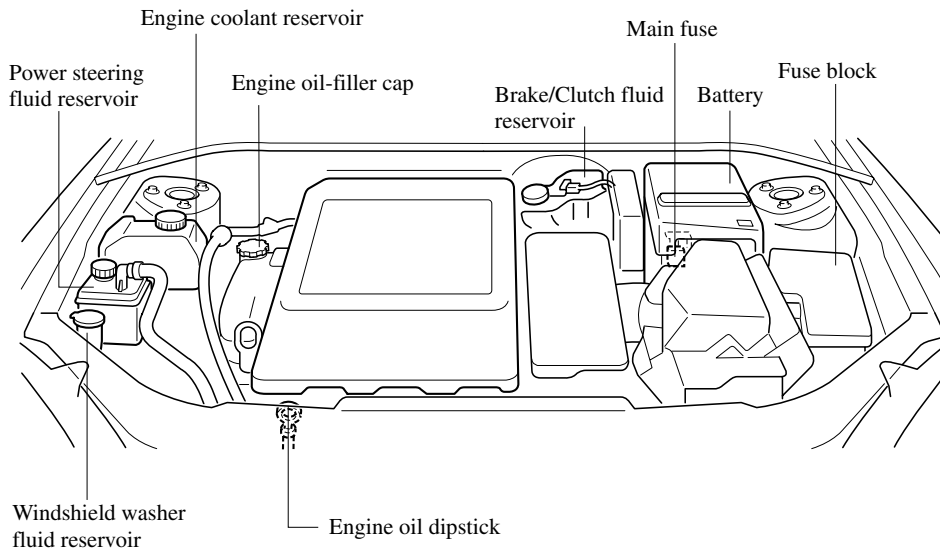
Maintenance and Care
Owner Maintenance

Engine Compartment Overview

Without turbocharger



With turbocharger



Maintenance and Care

Owner Maintenance

Engine Oil

NOTE

Changing the engine oil should be done by an Authorized Mazda Dealer.

▼ Recommended Oil

Use SAE 5W-20 engine oil.

Oil container labels provide important information.

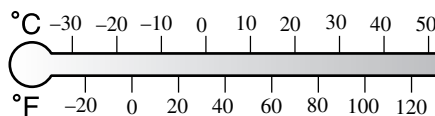
A chief contribution this type of oil makes to fuel economy is reducing the amount of fuel necessary to overcome engine friction.

U.S.A. and CANADA



(ILSAC)

Only use oils "Certified For Gasoline Engines" by the American Petroleum Institute (API). An oil with this trademark symbol conforms to the current engine and emission system protection standards and fuel economy requirements of the International Lubricant Standardization and Approval Committee (ILSAC), comprised of U.S. and Japanese automobile manufacturers.



5W-20

Except U.S.A. and CANADA



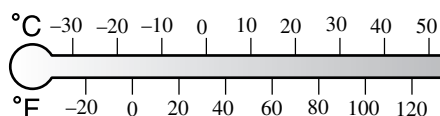
(ILSAC)

Mexico

Use SAE 5W-20 engine oil. If SAE 5W-20 engine oil is not available in your market. Use SAE 5W-30 engine oil.

Maintenance and Care Owner Maintenance

The quality designation SM, or ILSAC must be on the label.

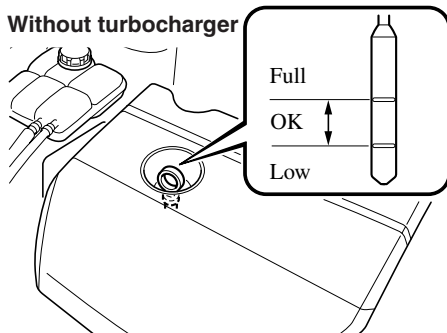


5W-20

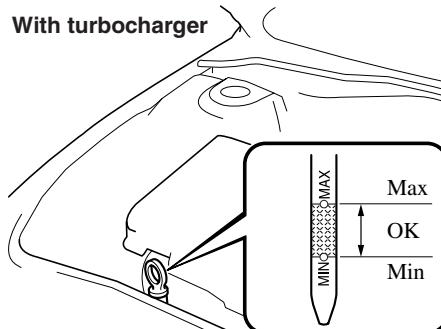
▼ Inspecting Engine Oil Level

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.

Without turbocharger



With turbocharger



5. Pull it out again and examine the level. It's OK between Low or MIN and Full or MAX. But if it's near or below Low or MIN, add enough oil to bring the level to Full or MAX.

⚠ CAUTION

Don't add engine oil over Full or MAX. This may cause engine damage.

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

The distance between Low or MIN and Full or MAX on the dipstick represents the following:

Oil capacity	
L (US qt, Imp qt)	0.75 (0.79, 0.66)

Maintenance and Care

Owner Maintenance

Engine Coolant

▼ Inspecting Coolant Level

WARNING

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

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



Turn off the ignition switch and make sure the fan is not running before attempting to work near the cooling fan:

Working near the cooling fan when it is running is dangerous. The fan could continue running indefinitely even if the engine has stopped and the engine compartment temperature is high. You could be hit by the fan and seriously injured.



Do not remove the cooling system cap when the engine and radiator are hot:

When the engine and radiator are hot, scalding coolant and steam may shoot out under pressure and cause serious injury.

NOTE

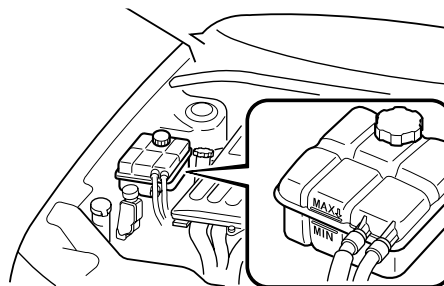
Changing the coolant should be done by an Authorized Mazda Dealer.

Inspect the antifreeze protection and coolant level in the coolant reservoir at least once a year—at the beginning of the winter season—and before traveling where temperatures may drop below freezing.

Inspect the condition and connections of all cooling system and heater hoses. Replace any that are swollen or deteriorated.

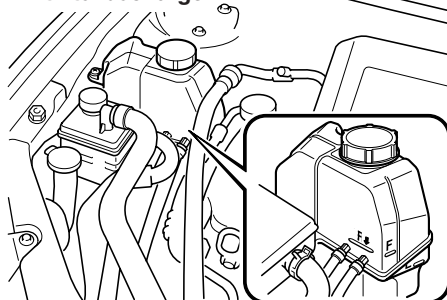
The coolant should be at full in the radiator and between the MAX or F and MIN or L marks on the coolant reservoir when the engine is cool.

Without turbocharger



Owner Maintenance

With turbocharger



If it's at or near MIN or L, add enough coolant to the coolant reservoir to provide freezing and corrosion protection and to bring the level to MAX or F.

CAUTION

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

Specifications

Specifications

▼ Engine

Item	Specification		
	Without turbocharger		With turbocharger
	2.0-liter engine	2.3-liter engine	
Type	DOHC-16V in-line, 4-cylinder		
Bore×Stroke	87.5 × 83.1 mm (3.44 × 3.27 in)	87.5 × 94.0 mm (3.44 × 3.70 in)	
Displacement	1,999 ml (1,999 cc, 122.0 cu in)	2,261 ml (2,261 cc, 137.9 cu in)	
Compression ratio	10.0	9.7	9.5

▼ Electrical System

Item			Classification
Battery	Without turbocharger	2.0-liter engine	12V-40AH/5HR, 12V-52AH/5HR
		2.3-liter engine	12V-40AH/5HR, 12V-52AH/5HR, 12V-55AH/5HR
	With turbocharger		12V-48AH/5HR, 12V-55AH/5HR
Spark-plug number	Without turbocharger		LFG1 18 110 ^{*1} , L3Y2 18 110
	With turbocharger		L3K9 18 110A ^{*1} , L3Y3 18 110
Spark-plug gap	Without turbocharger		1.25—1.35 mm (0.050—0.053 in)
	With turbocharger		0.70—0.8 mm (0.028—0.031 in)

*1 ex factory

NOTE
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.

Specifications

▼ Lubricant Quality

Lubricant		Classification		
Engine		Refer to the recommended SAE viscosity numbers on page 8-18.		
Manual transaxle oil	Without turbocharger	Any temperature	API Service	GL-4 or GL-5
			SAE	75W-90
		Above 10°C	API Service	GL-4 or GL-5
			SAE	80W-90
	With turbocharger	API Service	GL-4	
		SAE	75W-90	
Automatic transaxle fluid		ATF M-V		
Power steering fluid		ATF M-III or equivalent (e.g. Dexron® III)		
Brake/Clutch fluid		SAE J1703 or FMVSS116 DOT-3		

▼ Capacities

(Approximate Quantities)

Item			Capacity
Engine oil	Without turbocharger	With oil filter replacement	4.3 L (4.5 US qt, 3.8 Imp qt)
		Without oil filter replacement	3.9 L (4.1 US qt, 3.4 Imp qt)
	With turbocharger	With oil filter replacement	5.7 L (6.0 US qt, 5.0 Imp qt)
		Without oil filter replacement	5.3 L (5.6 US qt, 4.7 Imp qt)
Coolant			7.5 L (7.9 US qt, 6.6 Imp qt)
Manual transaxle oil	Without turbocharger		2.87 L (3.03 US qt, 2.53 Imp qt)
	With turbocharger		2.5 L (2.6 US qt, 2.2 Imp qt)
Automatic transaxle fluid	4-speed transaxle		7.2 L (7.6 US qt, 6.3 Imp qt)
	5-speed transaxle		8.14 L (8.60 US qt, 7.16 Imp qt)
Fuel tank			55.0 L (14.5 US gal, 12.1 Imp gal)

Check oil and fluid levels with dipsticks or reservoir gauges.

Specifications

▼ Dimensions

Item			Model	
			4 Door	5 Door
Overall length	Without turbocharger	STANDARD TYPE	4,505 mm (177.4 in)	—
		SPORTY TYPE	4,510 mm (177.6 in)	4,490 mm (176.8 in)
	With turbocharger		—	4,490 mm (176.8 in)
Overall width	Without turbocharger	Without side molding	1,745 mm (68.7 in)	1,745 mm (68.7 in)
		With side molding	1,755 mm (69.1 in)	1,755 mm (69.1 in)
	With turbocharger		—	1,765 mm (69.5 in)
Overall height			1,465 mm (57.7 in)	1,465 mm (57.7 in)
Front tread	Without turbocharger		1,530 mm (60.2 in)	1,530 mm (60.2 in)
	With turbocharger		—	1,535 mm (60.4 in)
Rear tread	Without turbocharger		1,515 mm (59.6 in)	1,515 mm (59.6 in)
	With turbocharger		—	1,525 mm (60.0 in)
Wheelbase			2,640 mm (103.9 in)	2,640 mm (103.9 in)

▼ Weights

4 Door

2.0-liter engine

Item		Weight	
		Manual transaxle	Automatic transaxle
GVWR (Gross Vehicle Weight Rating)		1,719 kg (3,790 lbs)	1,733 kg (3,821 lbs)
GAWR (Gross Axle Weight Rating)	Front	919 kg (2,026 lbs)	983 kg (2,068 lbs)
	Rear	800 kg (1,764 lbs)	795 kg (1,753 lbs)

2.3-liter engine

Item		Weight	
		Manual transaxle	Automatic transaxle
GVWR (Gross Vehicle Weight Rating)		1,764 kg (3,889 lbs)	1,792 kg (3,951 lbs)
GAWR (Gross Axle Weight Rating)	Front	955 kg (2,105 lbs)	981 kg (2,163 lbs)
	Rear	812 kg (1,790 lbs)	811 kg (1,788 lbs)

5 Door

Without turbocharger

Item		Weight	
		Manual transaxle	Automatic transaxle
GVWR (Gross Vehicle Weight Rating)		1,783 kg (3,931 lbs)	1,811 kg (3,993 lbs)
GAWR (Gross Axle Weight Rating)	Front	957 kg (2,110 lbs)	983 kg (2,167 lbs)
	Rear	829 kg (1,828 lbs)	828 kg (1,825 lbs)

Specifications

With turbocharger

Item		Weight
GVWR (Gross Vehicle Weight Rating)		1,866 kg (4,114 lbs)
GAWR (Gross Axle Weight Rating)	Front	1,055 kg (2,326 lbs)
	Rear	811 kg (1,788 lbs)

▼ Air Conditioner

Gas complies with SAE J639	Maximum operating charge
HFC134a (R-134a)	0.5 kg (1.1 lbs)

▼ Light Bulbs

Exterior light

Light bulb			Category	
			Wattage	ECE R (SAE)
Headlights	High beam		60	HB3 (HB3)
	Low beam	Halogen	55	H7 (H7)
		Xenon fusion	35	D2S (D2S)
Front turn signal lights/Side-marker lights			27/8	— (#1157NA)
Fog lights *		Type A	55	H11 (H11)
		Type B	51	HB4 (HB4)
Side turn signal lights * ¹			5	WY5W (—)
High-mount brake light	4 Door		18	W16W (#921)
	5 Door	Non-LED bulb	18	W16W (#921)
		LED bulb * ¹	2.4	— (—)
Rear turn signal lights			21	WY21W (—)
Brake lights/Taillights	Non-LED bulb		21/5	W21/5W (#7443)
	LED bulb * ²		4/1	— (—)
Reverse lights			21	W21W (#7440)
License plate light			5	W5W (—)

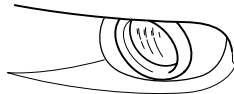
*1 Bulb replacement is not possible because it is built into the unit. Replace the unit.

*2 Bulb replacement is not possible. The rear combination component must be replaced.

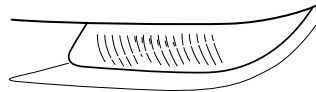
Specifications

Fog lights

Type A



Type B



Interior light

Light bulb	Category	
	Wattage	ECE R
Trunk light (4 Door)	5	W5W
Luggage compartment light (5 Door)		—
Overhead light/Map lights (Front) *		W5W
Overhead light (Rear)	10	—

▼ Tires

NOTE

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

Check the tire pressure label for tire size and inflation pressure.
Refer to Tire Inflation Pressure on page 8-35.

Standard tire

Tire size	Inflation pressure	
	Front	Rear
P195/65R15 89H	230 kPa (34 psi)	230 kPa (34 psi)
P205/55R16 89H	220 kPa (32 psi)	220 kPa (32 psi)
P205/50R17 88V	220 kPa (32 psi)	220 kPa (32 psi)
215/45R18 93Y	230 kPa (34 psi)	220 kPa (32 psi)

10-8 *Some models.

Specifications

Temporary spare tire

Tire size	Inflation pressure
T115/70D15 90M	420 kPa (60 psi)
T125/70D16 96M	
T125/70D17 98M	

▼ Fuses

Refer to the fuse rating on page 8-51.