

Maintenance and Specifications

INTRODUCTION

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

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

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

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

The owner should retain evidence that proper maintenance has been performed as prescribed.

Claims against the warranty resulting from lack of maintenance, as opposed to defective materials or authorized Mazda workmanship, will not be honored.

Any auto repair shop using parts equivalent to your Mazda's original equipment may perform maintenance. **But we recommend that it always be done by an authorized Mazda Dealer using genuine Mazda parts.**

SCHEDULED MAINTENANCE

Schedule 1 — Normal Driving Conditions/Emission Control Systems

Follow Schedule 1 if the vehicle is operated mainly where none of the following conditions apply. If any do apply, follow Schedule 2.

- Repeated short-distance driving.
- Driving in dusty conditions.
- Towing a trailer.
- Operating in hot weather in stop-and-go “rush hour” traffic.
- Extended periods of idling or low-speed operation.
- High-speed operation with a fully loaded vehicle.
- Off-road operation.

NOTE: After the described period, continue to follow the described maintenance at the recommended intervals.

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CHART SYMBOLS

I: Inspect and if necessary, correct, clean or replace

A Adjust

R: Replace

L: Lubricate

Normal driving service intervals — perform at the months or distances shown, whichever occurs first.

Maintenance Item	Maintenance Interval (Number of months or Miles (km), whichever comes first)												
	Months	4	8	12	16	20	24	28	32	36	40	44	48
	x 1000 miles	5	10	15	20	25	30	35	40	45	50	55	60
	(x 1000 km)	(8)	(16)	(24)	(32)	(40)	(48)	(56)	(64)	(72)	(80)	(88)	(96)
ENGINE													
Engine oil		R	R	R	R	R	R	R	R	R	R	R	R
Oil filter		R	R	R	R	R	R	R	R	R	R	R	R
PCV valve	*3												
AIR CLEANER													
Air cleaner filter							R						R
IGNITION SYSTEM													
Spark plugs	*4												
COOLING SYSTEM													
Engine Coolant (yellow)		Replace at first 100,000 miles (160,000 km) or 60 months; after that, every 50,000 miles (80,000 km) or 36 months											
Coolant condition and protection, hoses and clamps — annually — prior to cold weather every 12 months				I			I			I			I
CHASSIS AND BODY													
Wheel lug nut torque	*1	I	I	I	I	I	I	I	I	I	I	I	I
Inspect tires for wear and rotate (X = recommended interval for optimal tire life)		I	X	I	X	X	I	X	X	I	X	X	I
Clutch reservoir fluid level		I		I		I		I		I		I	
Front wheel bearings (4x2)													L

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	(x 1000 km)	(8)	(16)	(24)	(32)	(40)	(48)	(56)	(64)	(72)	(80)	(88)	(96)
Disc brake system				I			I			I			I
Caliper slide rails				L			L			L			L
Drum brake system, lines and hoses				I			I			I			I
Exhaust system for leaks, damage, looseness							I						I
Manual transmission fluid													R
Automatic transmission fluid *2							I						I
Exhaust system shielding (for trapped material)							I						I
Propeller shaft U-joints (if equipped with grease fittings)	L			L		L		L		L		L	
Parking brake system (for damage and operation)				I			I			I			I
Ball joints (4x2)				I/L			I/L			I/L			I/L
Transfer case fluid (4x4)		Replace every 150,000 miles (240,000 km)											
Rear axle lubricant		Does not require replacement unless rear axle submerged in water											
Accessory drive belts													
Fuel filter *5							R						R
Steering linkage, ball joints, suspension and driveshaft				I			I			I			I

*1 The wheel lug nuts must be retightened to the proper specifications at 500 miles (800 km) of new vehicle operation, at any wheel change, or at any other time the wheel lug nuts have been loosened. Refer to *Wheel Lug Nut Torque Specification* in the *Tires, Wheels and Loading* chapter for the proper lug nut torque specification.

*2 Replace every 150,000 miles (240,000 km) unless submerged in water.

*3 At 60,000 miles (96,000 km), the dealer will replace the PCV valve at no cost, except Canada and California vehicles.

*4 Refer to vehicle emission control information label for spark plug and gap specifications.

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*5 The California Air Resources Board has determined that the failure to perform this maintenance item will not nullify the emission warranty nor limit recall liability prior to completion of the vehicle's useful life.

Schedule 1 continued

Maintenance Item	Maintenance Interval (Number of months or Miles (km), whichever comes first)												
	Months	52	56	60	64	68	72	76	80	84	88	92	96
	x 1000 miles	65	70	75	80	85	90	95	100	105	110	115	120
	(x 1000 km)	(104)	(112)	(121)	(128)	(136)	(144)	(152)	(160)	(168)	(176)	(184)	(192)
ENGINE													
Engine oil		R	R	R	R	R	R	R	R	R	R	R	R
Oil filter		R	R	R	R	R	R	R	R	R	R	R	R
PCV valve	*3												
AIR CLEANER													
Air cleaner filter							R						R
IGNITION SYSTEM													
Spark plugs	*4								R				
COOLING SYSTEM													
Engine Coolant (yellow)		Replace at first 100,000 miles (160,000 km) or 60 months; after that, every 50,000 miles (80,000 km) or 36 months											
Coolant condition and protection, hoses and clamps — annually —prior to cold weather every 12 months				I			I			I			I
CHASSIS AND BODY													
Wheel lug nut torque	*1	I	I	I	I	I	I	I	I	I	I	I	I
Inspect tires for wear and rotate (X = recommended interval for optimal tire life)		X	X	I	X	X	I	X	X	I	X	X	I
Clutch reservoir fluid level		I		I		I		I		I		I	
Front wheel bearings (4x2)													L
Disc brake system				I			I			I			I
Caliper slide rails				L			L			L			L
Drum brake system, lines and hoses				I			I			I			I

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	x 1000 miles	65	70	75	80	85	90	95	100	105	110	115	120
	(x 1000 km)	(104)	(112)	(121)	(128)	(136)	(144)	(152)	(160)	(168)	(176)	(184)	(192)
Exhaust system for leaks, damage, looseness							I						I
Manual transmission fluid													R
Automatic transmission fluid	*2						I						I
Exhaust system shielding (for trapped material)							I						I
Propeller shaft U-joints (if equipped with grease fittings)		L		L		L		L		L		L	
Parking brake system (for damage and operation)				I			I			I			I
Ball joints (4x2)				I/L			I/L			I/L			I/L
Transfer case fluid (4x4)		Replace every 150,000 miles (240,000 km)											
Rear axle lubricant		Does not require replacement unless rear axle submerged in water											
Accessory drive belts									I				
Fuel filter	*5						R						R
Steering linkage, ball joints, suspension and driveshaft				I			I			I			I

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SCHEDULE 2 — SPECIAL OPERATING CONDITIONS

If your driving habits **FREQUENTLY** include one or more of the following conditions:

- Short trips of less than 10 miles (16 km) when outside temperatures remain below freezing.
- Towing a trailer, or carrying maximum loads.
- Operating in severe dust conditions.
- Operating during **hot weather** in stop-and-go “rush hour” traffic.
- Extensive idling, such as police, taxi or door-to-door delivery service.
- High speed operation with a fully loaded vehicle (max. GVW).
- Off-road operation

Change ENGINE OIL AND OIL FILTER every 3 months or 3,000 miles (4,800 km) whichever occurs first.

NOTE: Idling the engine for extended periods will accumulate more hours of use on your vehicle than is actually indicated by the mileage odometer. Consequently, the odometer reading can be often misleading when determining the right time to change your engine oil and filter. If you are using your vehicle in a manner which allows it to remain stationary while the engine is running for long periods (door-to-door delivery, taxi, police, power/utility company trucks, or similar duty), then Mazda recommends you increase the frequency of oil and filter changes to an interval equivalent to 200 ENGINE HOURS or use. Since most vehicles are not equipped with hour-meters, it may be necessary for you to approximate your idle time and plan oil/filter changes accordingly.

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Special Operating Conditions	Replace Engine Oil and Filter	Inspect Brake System	Replace Fuel Filter	Change Automatic Transmission Fluid	Replace Spark Plugs	Replace Engine Air Filter	Change Manual Transmission Fluid	Inspect and Lubricate U-Joints	Lubricate Front Wheel Bearing (4x2)	Change Transfer Case Fluid (4x4)
Suggested Maintenance Interval	3,000 miles or 3 months	5,000 miles	15,000 miles	30,000 miles	60,000 miles	As required	As required	As required	30,000 miles	60,000 miles
Towing a trailer or using a camper or car top carrier	X			X		X	X			
Extensive idling or low-speed driving for long distances as in heavy commercial use such as delivery, taxi or patrol car	X	X	X	X	X				X	X
Operating in dusty conditions such as unpaved or dusty roads	X		X	X		X				
Off road operation				X				X		X

For specific recommendations see your authorized Mazda dealer or qualified service professional.

OWNER MAINTENANCE

Owner Maintenance Schedule

The owner or a qualified service technician should make these vehicle inspections at the indicated intervals to ensure safe and dependable operation.

Bring any problem to the attention of an Authorized Mazda Dealer or qualified service technician as soon as possible.

While operating your vehicle

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- Note any changes in the sound of the exhaust or any smell or exhaust fumes in the vehicle.
- Check for vibrations in the steering wheel. Notice any increased steering effort or looseness in the steering wheel, or change in the straight ahead position.
- Notice if your vehicle constantly turns slightly or “pulls” to one side when traveling on a smooth, level road.
- When stopping, listen and check for strange sounds, pulling to one side, increased brake pedal travel or “hard to push” brake pedal.
- If any slipping or changes in the operation of your transmission occur, check the transmission fluid level.
- Check automatic transmission Park function.
- Check parking brake.

At least monthly

- Check function of all interior and exterior lights.
- Check tires for wear and proper air pressure.
- Check engine oil level.
- Check coolant level in the coolant reservoir.
- Check washer fluid level.

At least twice a year (for example, every spring and fall)

- Check power steering fluid level.
- Check clutch fluid level (if equipped).
- Check and clean body and door drain holes.
- Check and lubricate all hinges, latches, and outside locks.
- Check and lubricate door rubber weather strips.
- Check parking brake for proper operation.
- Check lap/shoulder belts and seat latches for wear and function.
- Check air pressure in spare tire.
- Check windshield washer spray and wiper operation. Clean wiper blades with clean cloth dampened with washer fluid.
- Check safety warning lamps (brake, ABS, air bag, safety belt) for operation.
- Check cooling system fluid level and verify coolant specific gravity is correct for summer or winter conditions.

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- Check battery water level (non-maintenance free).
- Check battery connections and clean if necessary.

Retightening lug nuts

- Retighten the lug nuts to the specified torque at 500 miles (800 km) after any wheel disturbance (tire rotation, changing a flat tire, wheel removal, etc.).
- Refer to *Wheel Lug Nut Torque Specification* in the *Tires, Wheels and Loading* chapter for the proper lug nut torque specification.

SERVICE RECOMMENDATIONS

To help you service your vehicle:

- We highlight do-it-yourself items in the engine compartment for easy location.
- We provide *service maintenance section* which makes tracking routine service easy.

If your vehicle requires professional service, your authorized dealer can provide necessary parts and service. Check your “Warranty Information” to find out which parts and services are covered.

Use only recommended fuels, lubricants, fluids and service parts conforming to specifications. Genuine Mazda parts are designed and built to provide the best performance in your vehicle.

PRECAUTIONS WHEN SERVICING YOUR VEHICLE

- Do not work on a hot engine.
- Make sure that nothing gets caught in moving parts.
- Do not work on a vehicle with the engine running in an enclosed space, unless you are sure you have enough ventilation.
- Keep all open flames and other lit material away from the battery and all fuel related parts.

Working with the engine off

- Automatic transmission:
 1. Set the parking brake and shift to P (Park).
 2. Turn off the engine and remove the key.
 3. Block the wheels.
- Manual transmission:

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1. Set the parking brake, depress the clutch and place the gearshift in 1 (First).
2. Turn off the engine and remove the key.
3. Block the wheels.

Working with the engine on

- Automatic transmission:
 1. Set the parking brake and shift to P (Park).
 2. Block the wheels.
- Manual transmission:
 1. Set the parking brake, depress the clutch and place the gearshift in N (Neutral).
 2. Block the wheels.

Note: Do not start your engine with the air cleaner removed and do not remove it while the engine is running.

OPENING THE HOOD

1. Inside the vehicle, pull the hood release handle located under the bottom of the instrument panel near the steering column.
2. Go to the front of the vehicle and release the auxiliary latch that is located under the front center of the hood.
3. Lift the hood and support it with the prop rod.

