

RECOMMENDED SCHEDULE OF PREVENTIVE MAINTENANCE

Periodic inspections of the engine related parts allow the functions and performance of the engine related parts to be maintained at their best condition through inspection, adjustment, cleaning and replacement. Perform the periodic inspections according to the following table.

Inspection item	Daily or every 8 hours	Initially every 50 hours See Note	Every 200 hours or monthly	Every 400 hours or 2 months	Every 600 hours or 3 months See Note	Every 1200 hours or 6 months	Every 2400 hours or 12 months
Valve clearance inspection and adjustment		⊗		○			
Fan belt tension adjustment		⊗	○				
Oil level inspection	○						
Engine oil replacement		⊗	○				
Engine oil filter element replacement Main and bypass filters		⊗		○			
Coolant level inspection (Inspection of reserve tank level)	○						
Coolant replacement and cleaning of the radiator	Once every 2 years						
Air cleaner cleaning (dust pan and element)		⌘	○				
Air cleaner element replacement					⌘	○	
Fuel filter element replacement						○	
Fuel feed pump strainer cleaning							
Fuel tank drain and refill	Once a year						
Sedimentor draining (optional)			○				
Injection pump adjustment (injection pressure and timing)							○
Fuel injector inspection (check injection nozzle pressure and condition)					○		
Battery fluid specific gravity					○		
Battery fluid level and terminal inspection	○						

NOTE: ⊗ Indicates the procedures for new engines or initial maintenance after an overhaul.

NOTE: ⌘ Indicates inspection and maintenance for parts in dusty places.

Mazda brand antifreeze, rust preventive agent and oil should be used when possible.

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ENGINE DISASSEMBLY / REASSEMBLY

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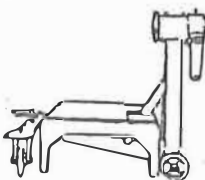
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ENGINE DISASSEMBLY

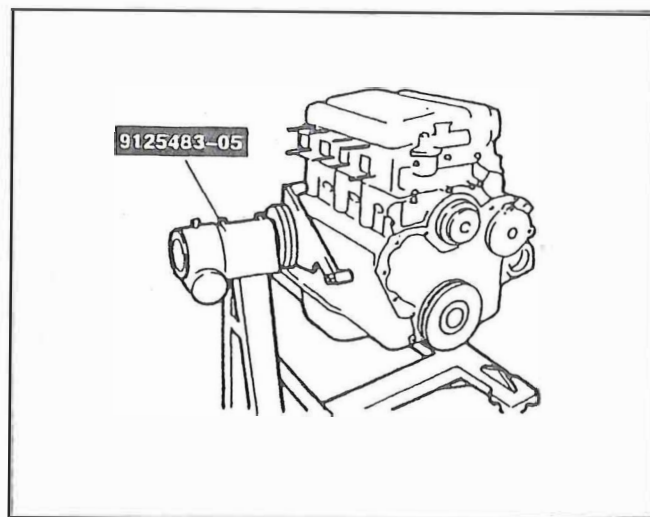
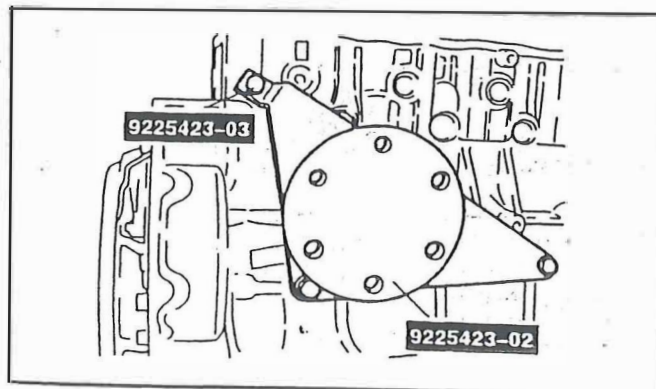
SPECIAL TOOLS REQUIRED (ENGINE STAND)

SPECIAL TOOLS REQUIRED	PROCEDURE	SPECIAL TOOLS REQUIRED	PROCEDURE
9225423-01 Engine stand hanger 	For attaching engine to engine stand	9225423-02 Body (component of 9225423-01) 	For attaching engine to engine stand
9225423-03 Bolt (component of 9225423-01) 	For attaching engine to engine stand	9125483-05 Engine stand 	Engine stand for engine overhaul

MOUNTING THE ENGINE TO ENGINE STAND

1. Remove the exhaust manifold and gasket.
2. Remove the oil hoses between the alternator and the engine block.
3. Remove the engine mounts.
4. Install the engine stand hanger as shown in the illustration.

 **WARNING:** The engine is heavy. Be sure that all lifting devices (hoists, cables, chains, slings etc.) are suitable and of adequate capacity to lift the engine. The engine can weigh approximately 340 kg (750 lb).



5. Install the engine assembly on the engine stand.

ENGINE DISASSEMBLY

NOTE: When disassembling the engine, remove the parts in the order given in the disassembly illustration. Parts that must be handled with care after disassembly are noted.

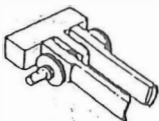
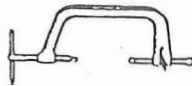
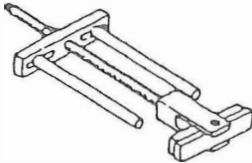
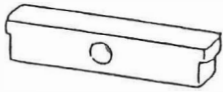
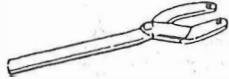
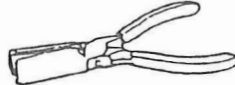

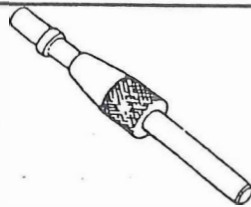
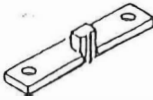
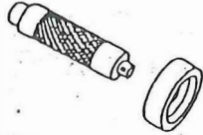

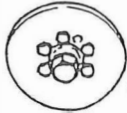
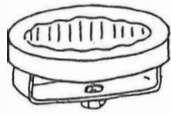
ORDER OF DISASSEMBLY

- Cylinder head
- Cylinder block (accessory components)
- Cylinder block (external components)
- Cylinder block (internal components)

NOTE: When there are multiple parts with the same shape (pistons, piston rings, connecting rods, etc.), tag or mark each part before removing. Always install the same parts in their original position.

NOTE: Thoroughly clean or wash each part that has been removed. Completely dry the parts after cleaning, using low pressure compressed air. Check each part for deformation, damage and wear.

SPECIAL TOOLS REQUIRED (ENGINE DISASSEMBLY)

SPECIAL TOOLS REQUIRED	PROCEDURE	SPECIAL TOOLS REQUIRED	PROCEDURE
9225423-04 Pivot 	For valve replacement	9125483-59 Valve spring lifter arm 	For valve replacement
9225423-08 Cylinder liner remover set 	For removal of the cylinder liner	9225423-09 Attachment 	For cylinder liner removal
9225423-10 Coupling flange holder 	For preventing cam gear from rotating	9225423-11 Valve seal remover 	For valve seal removal
9225423-12 Valve guide installer 	For valve guide removal	9225423-13 Clutch disk centering tool 	For clutch disk removal
9225423-14 Ring gear brake 	For preventing the crankshaft from rotating	9225423-15 Oil seal installer 	For oil seal installation
		9225423-17 Oil seal installer (component of 9225423-15) 	For oil seal installation
9225423-18 Pulley puller 	For crankshaft pulley removal	9224473-00 Wrench oil filter 	For oil bypass filter replacement