

Mazda 626 1997-2005 Workshop Manual

ENGINE

ENGINE REMOVAL/INSTALLATION

Warning

- Fuel vapor is hazardous. It can very easily ignite, causing serious injury and damage. Always keep sparks and flames away from fuel.
- Fuel line spills and leaks are dangerous. Fuel can ignite and cause serious injuries or death and damage. Fuel can also irritate skin and eyes. To prevent this, always complete the "Fuel Line Safety Procedures" in section F (Refer to section F, FUEL SYSTEM, BEFORE REPAIR PROCEDURE.)

- Disconnect the negative battery cable.
- Remove the radiator. (Refer to section E, RADIATOR, RADIATOR REMOVAL/INSTALLATION.)
- Remove the air cleaner.
- Remove the accelerator cable. (Refer to section F, INTAKE-AIR SYSTEM, ACCELERATOR CABLE INSPECTION/ADJUSTMENT.)
- Disconnect the fuel hose. (Refer to section F, FUEL SYSTEM, BEFORE REPAIR PROCEDURE.) (Refer to section F, FUEL SYSTEM, AFTER REPAIR PROCEDURE.)
- Remove the front pipe. (Refer to section F, EXHAUST SYSTEM, EXHAUST SYSTEM REMOVAL/INSTALLATION.)
- Remove the hose, clamps and pipes related to the fansurge.
- Remove the battery.
- Remove the fuse box.
- Remove the P/S oil pump with the oil hose still connected. Position the P/S oil pump so that it is out of the way.
- Remove the A/C compressor with the pipe still connected. Position the A/C compressor so that it is out of the way.
- Remove the drive shaft. (Refer to section M, DRIVE SHAFT, DRIVE SHAFT REMOVAL/INSTALLATION.)
- Remove in the order indicated in the table.
- Install in the reverse order of removal.
- Start the engine and:
 - check the engine oil, engine coolant, intake air and fuel leakage.
 - check the gearbox timing, idle speed and idle mixture. (Refer to section F, ENGINE TUNE-UP.)
- Perform a road test.



Camshaft Installation Note

Caution

- Because there is little camshaft thrust clearance, the camshaft must be held horizontally while it is installed. Otherwise, excessive force will be applied to the thrust area, causing burn on the thrust retaining area of the cylinder head journal. To avoid this, the following procedure must be observed.

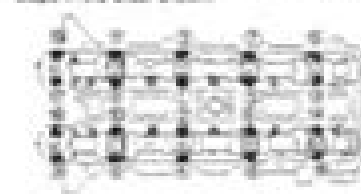
- Assemble camshaft onto the cylinder head, by cam ropes at No.1 and No.3 cylinders.



- Push the camshaft to the area shown. Keep the camshaft surface free of contact to prevent damage.



- Apply engine oil to the camshaft and the cylinder head journals.
- Install the camshaft cap to the positions from which they were removed.
- Hand-tighten the camshaft cap bolts marked 5, 7, 8, and 9.
- Tighten the camshaft cap bolts in two or three steps in the order shown.



- Verify that the camshaft settles horizontally when two bearing cap bolts at No.2 journal are tightened.

- Apply clean engine oil to the camshaft oil seal.
- Push the oil seal slightly in by hand.
- Tap the oil seals in evenly by using the SST and a hammer.



Camshaft Pulley Installation Note

- Install the camshaft pulleys, positioning the cover pins as shown.



- Hold the camshaft by using a wrench on the cast hexagon as shown.



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buffers typically consist of an acid base pair with the acid and base differing by the presence or absence of a proton a
conjugate acid base pair for instance one of the buffers that maintain the ph of human blood involves carbonic acid H_2CO_3
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