

Chrysler 300M 1999-2004 Workshop Manual

REMOVAL AND INSTALLATION (Continued)

(12) If front crankshaft seal was bench installed, place Special Tool 6780-2, Slaver over crankshaft seal to guide and protect seal lip.

(13) Before installing timing cover gasket apply a 1/8 inch bead of Mopar Engine RTV GRTM II to the parting line between the oil pan and cylinder block (Fig. 58).

(14) Install timing cover and gasket. Tighten M10 cover bolts to 34 Nm (25 ft. lbs.) and M6 bolts to 12 Nm (9 ft. lbs.) (Fig. 57).

(15) If not previously performed, install crankshaft oil seal using Special Tool 6780-2 slaver and 6780-1 installer.

(16) Install crankshaft damper and tighten center bolt to 170 Nm (125 ft. lbs.).

(17) Attach power steering pump to bracket.

(18) Install A/C belt tensioner assembly to timing cover.

(19) Install powersteering steering drive belt over cover pulley and bracket.

(20) Install fan module and accessory drive belts. Refer to COOLING SYSTEM for procedure.

(21) Install upper radiator crossmember. Refer to EXHAUST for procedure.

(22) Connect negative cable.

TIMING CHAIN AND SPROCKETS

REMOVAL

(1) Remove upper intake assembly. Refer to procedure in this section.

(2) Remove cylinder head covers, crankshaft damper, and timing chain cover. Refer to procedure in this section.

CAUTION: When aligning timing marks, always rotate engine by turning the crankshaft. Failure to do so will result in valve and/or piston damage.

REMOVAL AND INSTALLATION (Continued)

(12) Install primary timing chain. Refer to procedure in this section.



Fig. 56 Crankshaft Chain Timing
1 - CRANKSHAFT
2 - CAMSHAFT



Fig. 57 Crankshaft End Play Measuring

1 - (See note)

ROCKER ARMS

REMOVAL

(1) Remove cylinder head covers. Refer to procedure in this section.

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CAUTION: Always use the correct technique when working on the valve train system.

(1) Rotate engine until the cam lobe is on its base circle. Do not rotate the camshaft until the rocker arm is being removed.

CAUTION: Depress valve spring only enough to remove rocker arm.

(2) Using Special Tools R210 and R210 Adapter, depress valve spring only enough to release tension on rocker arm (Fig. 58).

(3) Remove rocker arm from cylinder head.

CAUTION: If rocker arms are to be reused, identify position of rocker arms for reassembly in their original positions.

(4) Repeat procedure for each rocker arm being removed.



Fig. 58 Rocker Arm—Removal/Installation

1 - SPECIAL TOOL R210

2 - SPECIAL TOOL R210

INSPECTION

Inspect the rocker arm for wear or damage (Fig. 59). Replace as necessary.

INSTALLATION

(1) Lubricate rocker arm with clean engine oil before installation.

(2) Rotate engine until cam lobe is on its base circle. Do not rotate the camshaft until the rocker arm is being installed.

(3) Using Special Tools R210 and R210 Adapter, depress valve spring only enough to install rocker arm (Fig. 58).

(4) Install rocker arm in original position (if reused) over valve and lock adjuster. Release tension on valve spring.

- 1 - CRANKSHAFT DAMPER
- 2 - CRANKSHAFT SEAL
- 3 - CRANKSHAFT PLUG
- 4 - CRANKSHAFT KEY
- 5 - CRANKSHAFT TIE ROD
- 6 - CRANKSHAFT TIE ROD

- 7 - CRANKSHAFT
- 8 - CRANKSHAFT TIE ROD
- 9 - CRANKSHAFT TIE ROD
- 10 - CRANKSHAFT TIE ROD
- 11 - CRANKSHAFT TIE ROD

300m Repair Manual

Roman Wölfel



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