

Jeep Grand Cherokee 1993-1998 Workshop Manual

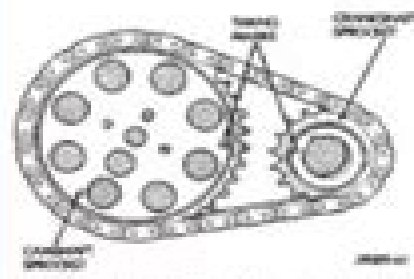


Fig. 6 Crankshaft/Camshaft Alignment—Typical

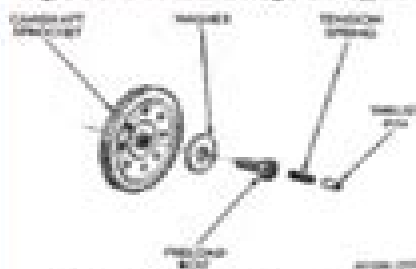


Fig. 8 Camshaft Sprocket Preload Test

Installation of the timing chain with the timing marks on the crankshaft and camshaft sprockets properly aligned ensures correct valve timing. A worn or misaligned timing chain will adversely affect valve timing. If the timing chain deflection more than 12.7 mm (1/2 inch), replace it. The correct timing chain has 48 pins. A chain with more than 48 pins will cause excessive slack.

INSTALLATION

Assemble the timing chain, crankshaft sprocket and camshaft sprocket with the alignment (Fig. 5).

(1) Apply Moog Silicone Sealant to the keyway and to the key. With the key in the crankshaft sprocket, install the camshaft sprocket and the timing chain.

(2) Install the timing chain tensioner preload bar and tensioner. Tighten the preload bar to 100 N·m (80 ft. lbs.) torque.

(3) To verify installation of the timing chain, turn the crankshaft to position the camshaft sprocket timing marks as shown in Fig. 7. Check the

number of chain pins between the timing marks of both sprockets. There must be 10 pins.

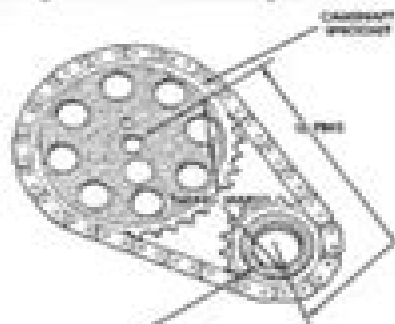


Fig. 7 Verify Sprocket/Chain Installation

(4) Install the camshaft oil slinger.
(5) Replace the oil seal in the timing cover.
(6) Lubricate the tension spring.
(7) Apply Moog Silicone Sealant to the keyway and to the key. With the key in the crankshaft sprocket, install the camshaft sprocket and the timing chain.

(8) Install the timing chain tensioner preload bar and tensioner. Tighten the preload bar to 100 N·m (80 ft. lbs.) torque.
(9) Install the timing chain tensioner.

(10) Turn the crankshaft to position the camshaft sprocket timing marks as shown in Fig. 7. Check the number of chain pins between the timing marks of both sprockets. There must be 10 pins.

(11) Connect negative cable to battery.

WARNING: THE COOLANT IN A RECENTLY OPERATED ENGINE IS HOT AND PRESSURIZED. RELEASE THE PRESSURE BEFORE REMOVING THE DRAIN COIL, CAP AND DRAIN PLUGS.

(12) Disconnect negative cable from battery.

(13) Drain the cooling system. DO NOT reuse reusable coolant. If the solution is clean, drain it into a clean container for reuse.



Fig. 3 Removal of Old Crankshaft Seal

Use a 20 mm (3/4 inch) pry bar to pry the seal out of the crankshaft. Do not pry the seal out of the crankshaft. Pry the seal out of the crankshaft. Pry the seal out of the crankshaft. Pry the seal out of the crankshaft.

(1) Remove the old crankshaft seal. Use a 20 mm (3/4 inch) pry bar to pry the seal out of the crankshaft. Do not pry the seal out of the crankshaft. Pry the seal out of the crankshaft. Pry the seal out of the crankshaft.

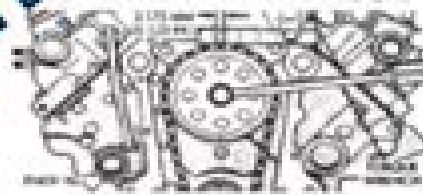


Fig. 4 Measuring Timing Chain Wear and Stretch

(1) Install a new timing chain. If the movement is more than 1.27 mm (1/16 inch), replace it.
(2) If chain is not satisfactory, remove camshaft sprocket attaching bolt and remove timing chain with crankshaft and camshaft sprockets.

(3) Place both camshaft sprocket and crankshaft sprocket in the bench with timing marks as shown. Measure center line through both camshaft and crankshaft flange.

(4) Place timing chain around both sprockets.
(5) Turn crankshaft and camshaft to line up with keyway location in crankshaft sprocket and in camshaft sprocket.

(6) Lift sprockets and chain (keep sprockets tight against the chain) in position as described.

(7) With both sprockets steady over their respective shafts and use a straightedge to check alignment of timing marks (Fig. 5).



Fig. 5 Alignment of Timing Marks

(8) Install the camshaft bolt. Tighten the bolt to 18 N·m (13 ft. lbs.) torque.
(9) Check camshaft end play. The end play should be 0.025-0.127 mm (0.001-0.005 inch) with a new thrust plate and up to 0.254 mm (0.010 inch) with a used thrust plate. If not within these limits install a new thrust plate.

CLEANING

The worn timing surfaces of chain cover cover and cylinder block are clean and free from burrs.

The water pump mounting surface must be cleaned.

INSTALLATION

(1) Using a new cover gasket, carefully install chain cover cover to avoid damaging oil pan gasket. Use a small amount of Moog Silicone Rubber Adhesive Sealant, or equivalent, in the joint between timing chain cover gasket and the oil pan gasket. Properly tighten the timing chain cover bolts in the time.

(2) Place the smaller diameter of the oil seal over from Oil Seal Installation Tool 8820 (Fig. 6). Push the oil seal in the groove of the block.

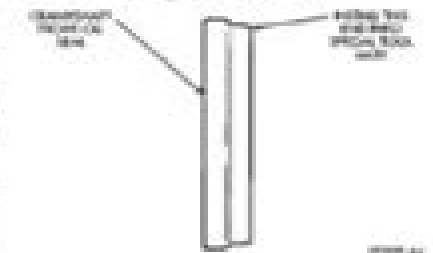


Fig. 6 Placing Oil Seal on Installation Tool 8820

(3) Position the seal and tool over the crankshaft (Fig. 7).

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Yijin Wang



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