

FORD**2.5L V6****MANUFACTURER'S SUGGESTED SCHEDULED MAINTENANCE**

The manufacturer recommends the belt be replaced every 60,000 miles for Federal vehicles and 105,000 miles for California vehicles.

REMOVAL & INSTALLATION**TIMING BELT**

CAUTION: This application is an interference engine. Do not rotate camshaft or crankshaft when timing belt is removed, or engine damage may occur.

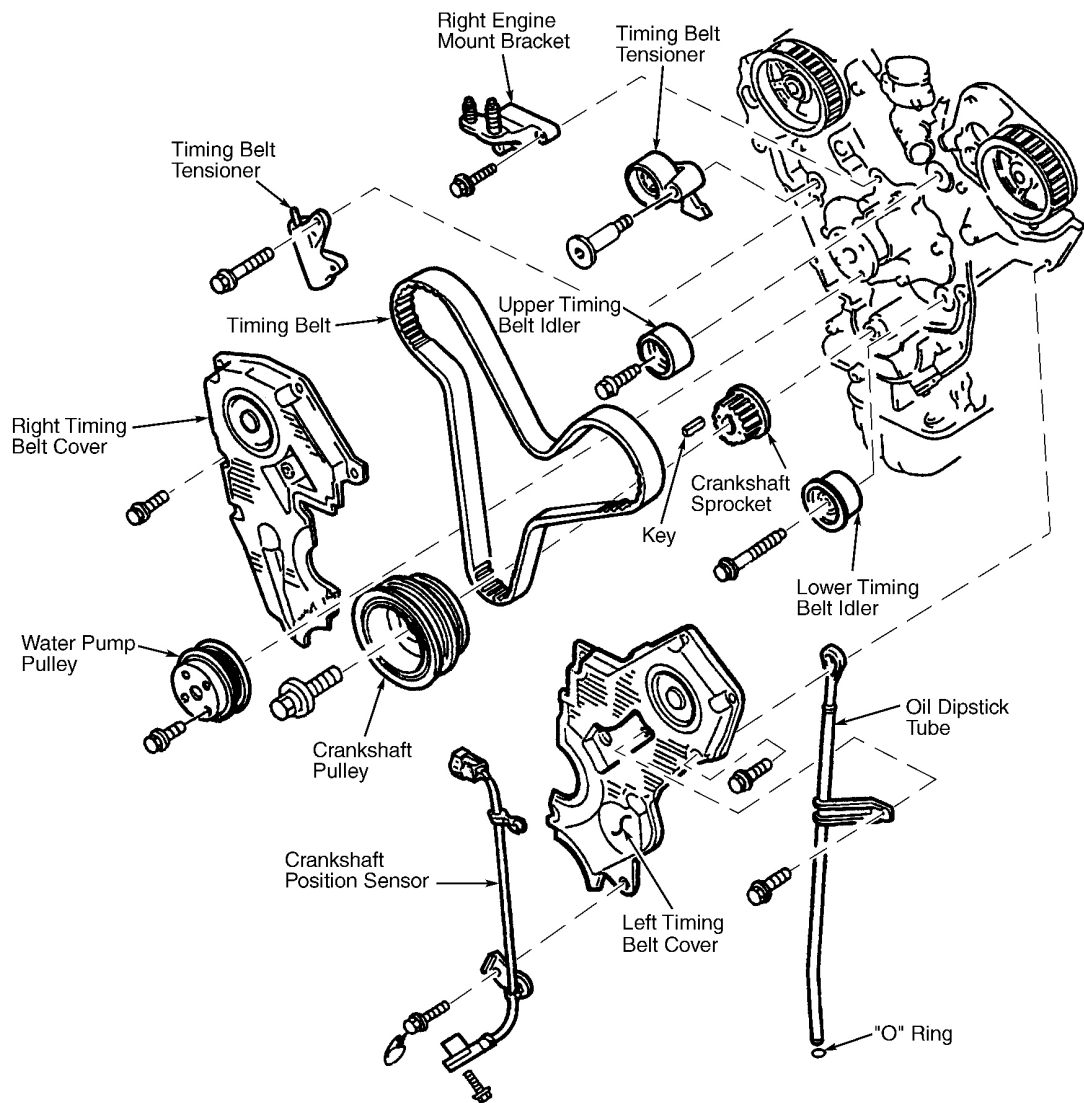
Removal

1. Disconnect negative battery cable. Disconnect engine coolant temperature sensor and temperature gauge sender connectors from coolant elbow. Disconnect crankshaft position sensor connector. See **Fig. 1**. Remove accessory drive belts. Raise and support vehicle.
2. Remove A/C belt tensioner bracket. Remove crankshaft damper bolt using Crankshaft Pulley Holder (T92C-6316-AH) or equivalent. Remove crankshaft damper. Remove 2 timing belt cover bolts from behind crankshaft damper. Remove timing belt cover lower bolts. Using Power Steering Pump Pulley Remover (D85L-6000-A) or equivalent, remove power steering pump pulley.
3. Using Water Pump Pulley Remover (T92C-631 2-AH) or equivalent, remove water pump pulley bolts and pulley. Lower vehicle. Remove oil dipstick tube. Remove upper timing belt cover bolts. Remove A/C-alternator belt idler bracket. Remove left timing belt cover, then right cover.
4. Remove 3 nuts and through-bolt from right engine mount. Remove right engine mount. Align crankshaft timing sprocket by turning crankshaft in normal direction of engine rotation only. Remove timing belt tensioner arm by removing lower and then upper tensioner arm bolts.
5. Mark direction of timing belt rotation if reusing belt. Using an Allen wrench, loosen timing belt tensioner bolt. Remove timing belt.

CAUTION: DO NOT rotate camshafts or crankshaft with timing belt removed, as engine damage could result.

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Fig. 1: Exploded View Of Timing Belt & Components
Courtesy of FORD MOTOR CO.

Inspection

1. Inspect timing belt for damaged teeth, cracking and oil contamination. Ensure upper and lower timing belt idlers rotate freely. Replace damaged components.
2. Inspect timing belt tensioner for signs of oil leakage. Replace timing belt tensioner if oil leakage exists.
3. Measure timing belt tensioner rod protrusion (free length) from end of rod to edge of housing. See **Fig. 2**. Replace timing belt tensioner if distance is not .55-.63" (14-16 mm).

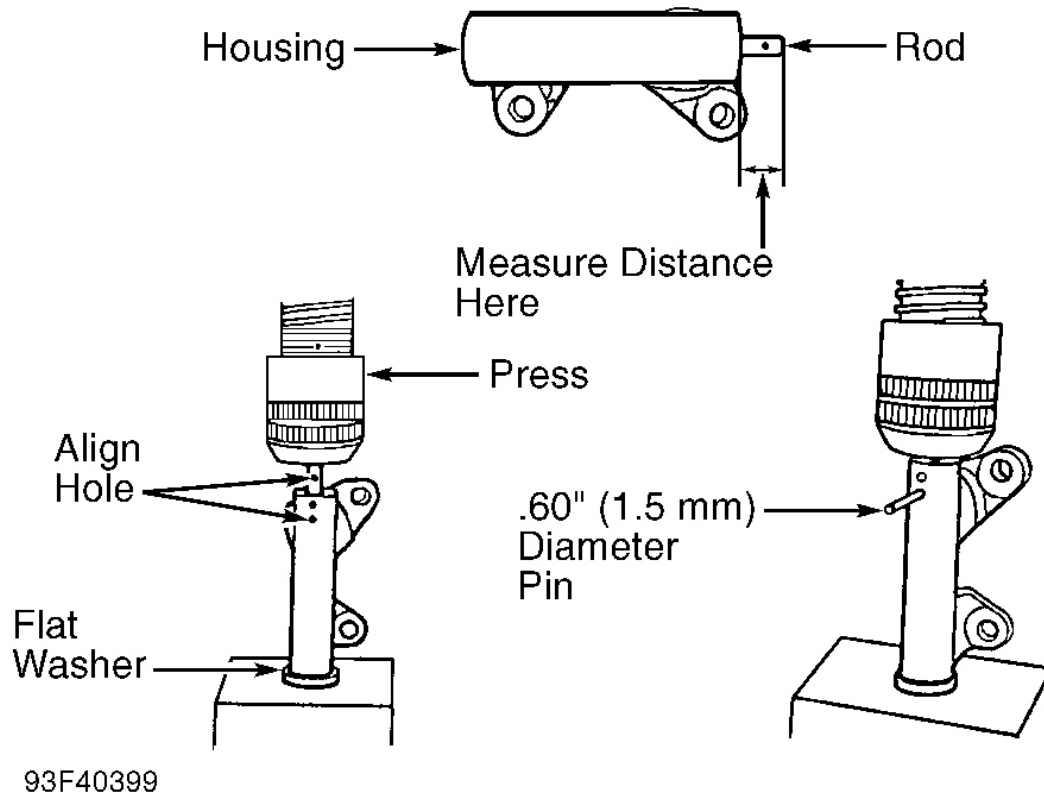
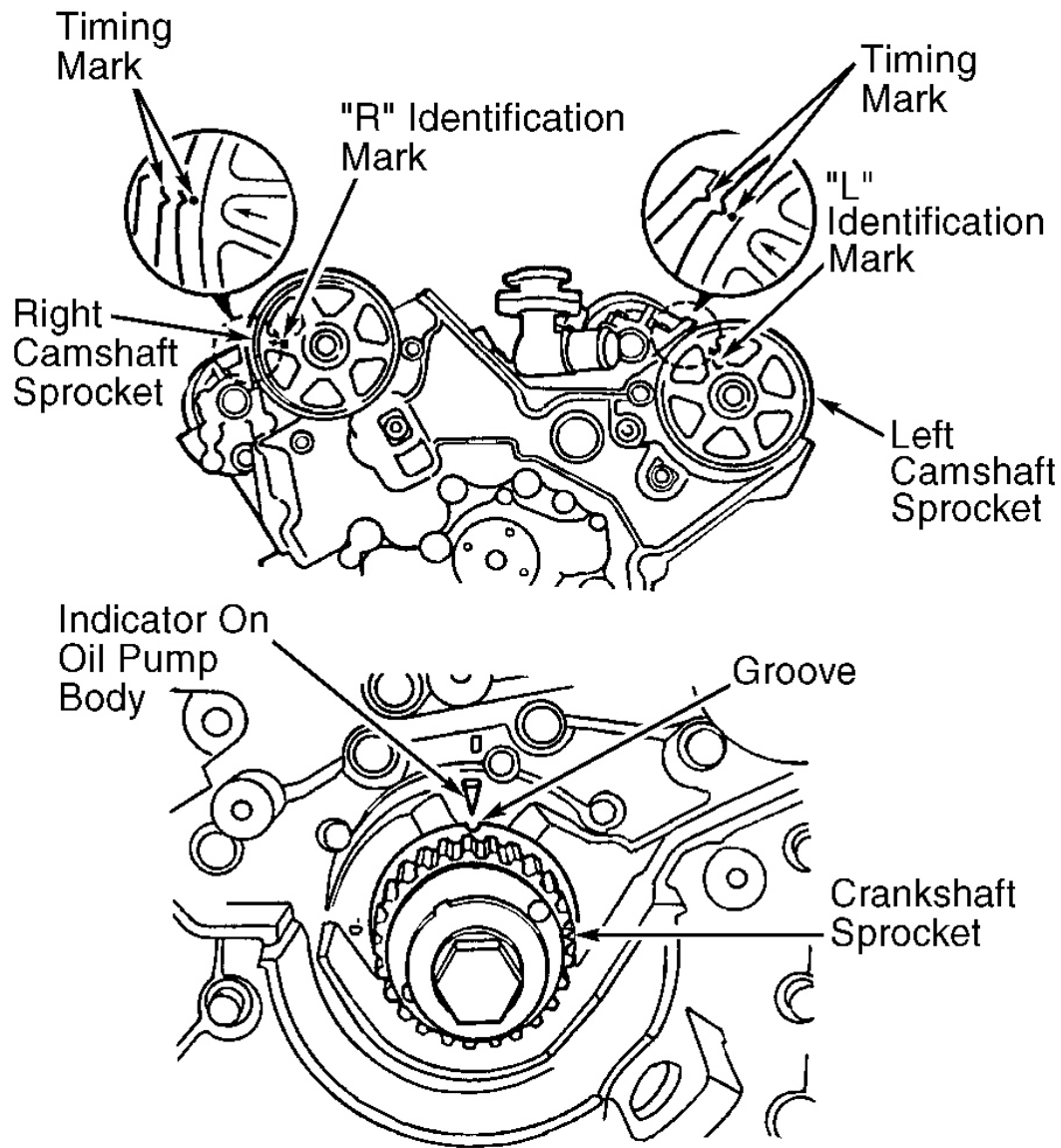


Fig. 2: Checking & Compressing Automatic Timing Belt Tensioner
 Courtesy of FORD MOTOR CO.

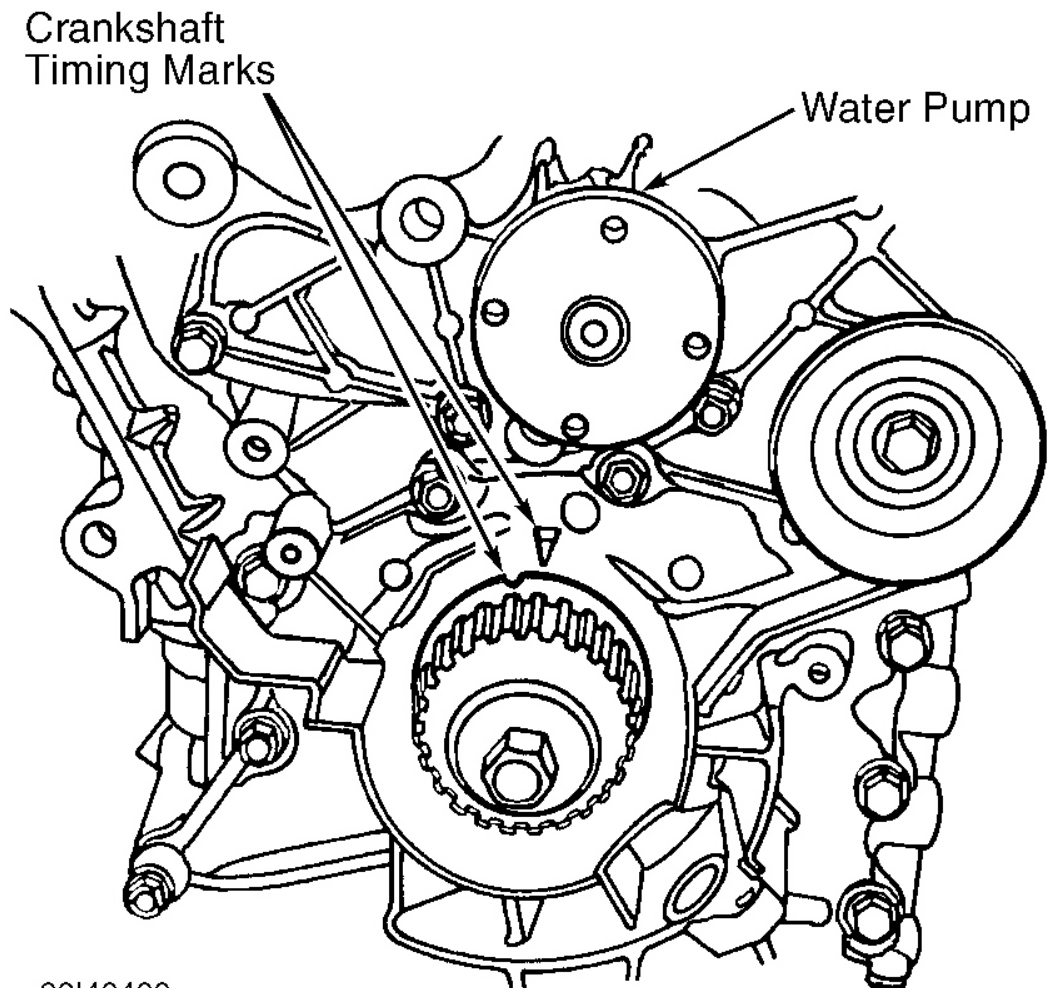
Installation

1. Place timing belt tensioner in a press, using a flat washer to prevent damage to timing belt tensioner plug.
2. Compress automatic belt tensioner until hole in piston aligns with second hole in housing. Insert a .06" (1.5 mm) diameter pin, or drill through hole to keep piston in compressed position. See **Fig. 2**.
3. Ensure camshafts and crankshaft timing marks align. See **Fig. 3**. Turn crankshaft counterclockwise until crankshaft timing sprocket is offset from TDC by one tooth. See **Fig. 4**. Install timing belt.
4. Turn crankshaft clockwise until crankshaft timing mark is back to TDC. This should put slack on tensioner portion of belt. Install automatic timing belt tensioner, and tighten bolts to specification. See **TORQUE SPECIFICATIONS**. Remove pin from automatic tensioner.
5. Turn crankshaft 2 complete revolutions. Recheck timing marks to ensure timing is still correct. See **Fig. 3**. To complete installation, reverse removal procedure. Tighten bolts to specification. Check ignition timing. Adjust drive belts to proper tension.



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Fig. 3: Aligning Camshaft & Crankshaft To TDC
Courtesy of MAZDA MOTORS CORP.



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Fig. 4: Positioning Crankshaft For Removing Slack From Timing Belt
 Courtesy of FORD MOTOR CO.

TORQUE SPECIFICATIONS

TORQUE SPECIFICATIONS

Application	Ft. Lbs. (N.m)
A/C Compressor Bolt	28-38 (38-51)
A/C Compressor Bracket-To-Cylinder Block Bolt	28-38 (38-51)
Camshaft Sprocket Bolt	90-103 (122-140)
Crankshaft Pulley Bolt	116-122 (157-165)
Engine Mount Nuts	54-76 (73-103)

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Engine Mount Through-Bolts	50-68 (86-116)
Front Suspension Crossmember Bolt	69-93 (94-126)
Knock Sensor	14-25 (20-34)
Power Steering Pump Bracket Bolt	24-33 (32-46)
Spark Plug	11-16 (15-23)
Tensioner Pulley Bolt	27-33 (37-45)
Timing Belt Tensioner Bolt	28-32 (38-43)
Water Pump Bolt	14-18 (19-24)
Wheel Lug Nut	65-87 (88-118)
	INCH Lbs. (N.m)
Timing Belt Cover Bolt	71-88 (8-10)
Valve Cover Bolt	43-78 (5-8)
Water Pump Pulley Bolt	71-88 (8-10)