NT 04001 VKMA 04300 VKMA 04301

VKMA 04300



Ford



Removal

- **1)** Disconnect the battery according to the vehicle manufacturing guidelines.
- 2) Prepare the vehicle for the timing replacement according to the vehicle manufacturing guidelines.
- 3) Loosen tensioning pulley on vacuum pump belt.
- 4) Remove vacuum pump belt.
- 5) Slacken alternator belt by loosening alternator pivot bolt.
- 6) Remove alternator belt.
- 7) Clamp flywheel and remove crankshaft pulley.
- 8) Remove timing cover.
- 9) Bring cylinder N° 1 to TDC and check timing as follows:
 - For 2.4-litre engine Align timing mark on cranks- haft washer with timing mark on crankcase oil pump cover, also align timing hole in camshaft sprocket with timing hole in engine block, then insert timing pin (3) (Fig. B).
 - For 2.5-litre engine

Align timing hole in flywheel with timing hole in engine block, then insert crankshaft timing pin (4); also align timing holes in camshaft and injection pump sprockets with timing holes in engine block, then insert timing pins (5 and 6) (Fig. C).



- **10)** Loosen tensioning pulley bolt (8) and move pulley to retracted position.
- **11)** Tighten tensioning pulley bolt (8) to hold pulley in retracted position.
- 12) Remove timing belt (1).
- 13) Remove tensioning pulley (2).

Install Confidence





Refitting

Caution: Clean the bearing surfaces of the rollers.

- **14)** Fit new tensioning pulley (**2**) in retracted position.
- 15) For 2.4-litre engine Check alignment of timing hole in injection pump sprocket with timing hole in timing cover support (Fig. D) using timing pin (7).
- **16)** Fit new timing belt (**1**).
- **17)** Release tensioning pulley. Pulley automatically tensions timing belt.
- 18) Remove all timing pins.
- **19)** Turn engine clockwise through 2 turns.
- **20)** Push against free timing belt run with thumb, then release.
- 21) Tighten the bolt (8) securing tensioning pulley mounting, then tensioning pulley bolt.
- **22)** Check alignment of all timing holes by inserting timing pins.
- 23) Remove all timing pins.

- 24) Check the tension of the belt (1).
- 25) Refit timing cover.
- **26)** Clamp flywheel and refit crankshaft pulley.
- 27) Tighten the crankshaft bolt (9) to 330 Nm
- 28) Refit and tension alternator belt.
- **29)** Refit and tension vacuum pump belt.
- **30)** Refit assembly comprising fan and fan motor.
- **31)** Reconnect battery earth lead.
- **32)** Refit the remainder of the removed components in the reverse order to removal.
- **33)** Fill the cooling circuit with the permanent fluid recommended.
- 34) Check the circuit's leak-tightness when the engine reaches its running temperature and secure the level of coolant when the engine is at ambient temperature (20 °C).

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