

NT 06004

VKMA/C 06000 –

VKMA/C 06003 –

VKMC 06005 –

VKMC 06415

Dacia / Renault

VKMA 06000

VKMC 06000

VKMA 06003

VKMC 06003



VKMC 06005

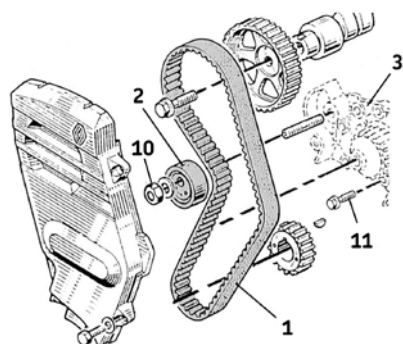
VKMC 06415



A



(6): Mot. 1273 /
(9): Mot. 1135-01 /



(10): 50 Nm
(11): M6 : 11 Nm
M8 : 22 Nm

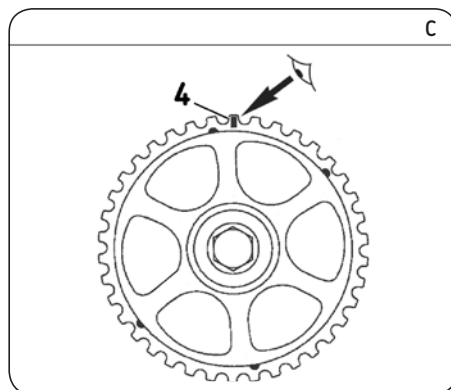
Removal

- 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) Support the engine with the appropriate tool and dismantle the engine bracket.
- 4) Remove the crankshaft pulley by locking the flywheel using an appropriate tool.
- 5) Remove the timing belt covers.
- 6) Set the engine to TDC by aligning the mark on the camshaft sprocket with that on the back cover and the mark on the crankshaft sprocket with that on the back cover (Fig. B).

Note: According to the engine to repair, the camshaft sprocket can have five marks; only the rectangular mark (4) on the face of one tooth represents TDC (Fig. C).

- 7) Loosen the tensioner roller fastening nut (10), remove the tensioner roller (2) and slightly tighten the nut (10) (Fig. A).
- 8) Remove the timing belt (1) (Fig. A).
- 9) **Removing the water pump (VKMC 06000/06003/06005/06415):** firstly bleed the cooling circuit, check it is clean, and clean if required; secondly fully loosen the water pump fastening bolts (11) and remove the pump (3) (Fig. A).

C

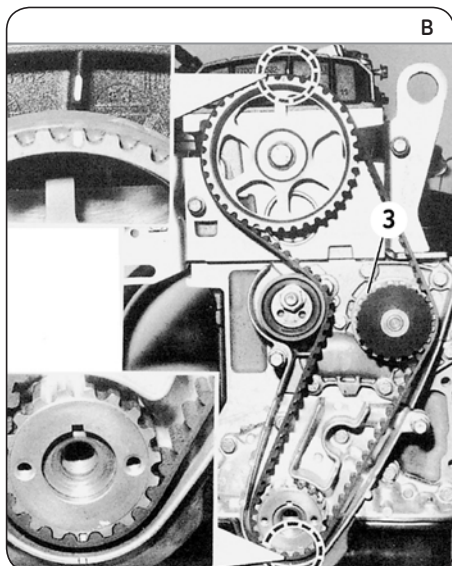


Refitting

Caution! Clean the bearing surfaces of the rollers.

- 10) **Refitting the water pump:** Firstly, fit the new water pump (3), tighten the waterpump bolts (11) to 11 Nm (M6), 22 Nm (M8), following the appropriate order (Fig. F); then check that the water pump pulley runs properly, and has no hard or locking spots. Then install tensioner stud in the pump, torque to 6 Nm.
- 11) Fit the new tensioner roller (2).

B



Install Confidence

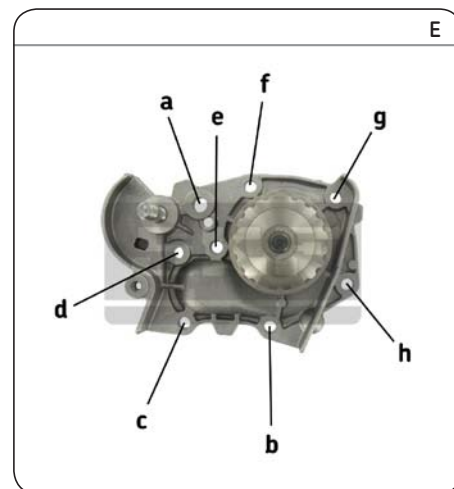
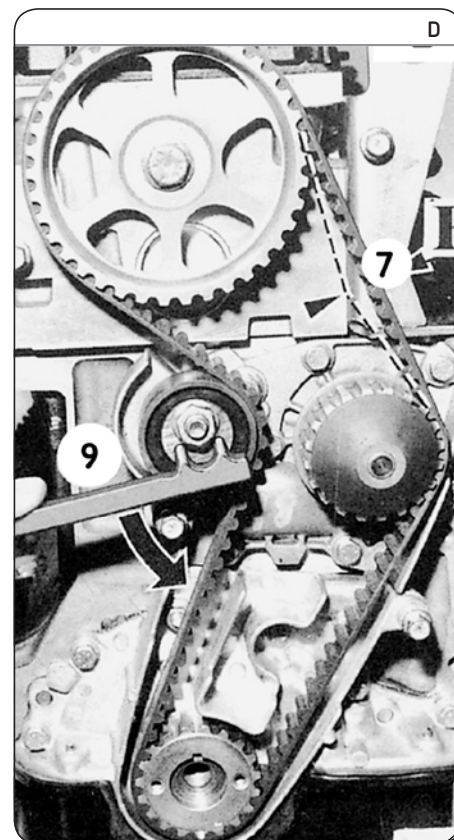


12) Fit the new timing belt (1) starting with the crankshaft sprocket and by aligning the marks on the belt with the marks on the camshaft sprocket, crankshaft sprocket and covers.

Note: the timing belt (1) bears an arrow indicating the rotation direction. Comply with this direction when fitting the belt.

- 13) Fit a suitable approved tensioning device on the timing belt at location (7) (Fig. D).
- 14) Check tension on belt.
- 15) Turn the tensioner roller using tool (9) (Fig. D) counter-clockwise up to a tension of 30 ± 1.5 units SEEM on the tension controller.
- 16) Tighten the nut (10) of tension roller (2) to a torque of 50 Nm.
- 17) Remove the tensioner controller.
- 18) Turn the crankshaft by three turns in the engine rotation direction.
- 19) Refit the tension controller.
- 20) Check the value of belt tension, which must be 30 ± 1.5 units SEEM.

- 21) Otherwise, readjust this value using the tensioner roller (2).
- 22) Remove the tension controller.
- 23) Refit the elements removed in reverse order to removal.
- 24) Fill the cooling circuit with the permanent fluid recommended.
- 25) 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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