NT 02011 VKMA/C 02200 -VKMA/C 02201 -VKMA/C 02202 -VKMA/C 02203

Fiat / Lancia

VKMA 02200



VKMA 02202



VKMC 02200

VKMC 02202



VKMA 02201

VKMA 02203



VKMC 02201

VKMC 02203

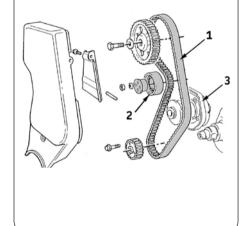






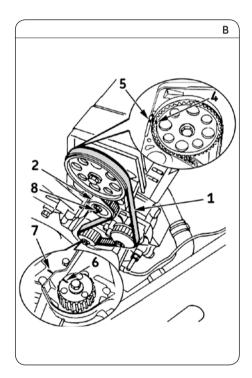


(9): Tension tools (ref. 1060745100 + 1060745300 or ref. 1860745100 + 1860745300).



Removal

- 1) Disconnect the battery according to the vehicle manufacturing guidelines.
- Prepare the vehicle for the timing replacement according to the vehicle manufacturing guidelines.
- 3) Position cylinder No.1 at TDC, in this position, mark (4) on the camshaft sprocket must be aligned with the cylinder head gasket face (5) and mark (6) on the crankshaft sprocket with that on the oil pump housing (7) (Fig. B).
- 4) Untighten fastening nut (8) and push in tension roller (2) to untighten and remove timing belt (1) (Fig. B).
- 5) Remove the tensioner roller (2).
- 6) Removing the water pump (VKMC 02200/ 02201): firstly bleed the cooling circuit, check it is clean, and clean if required; secondly fully loosen the water pump (3) fastening bolts (11) and remove the pump (Fig. A).



Install Confidence

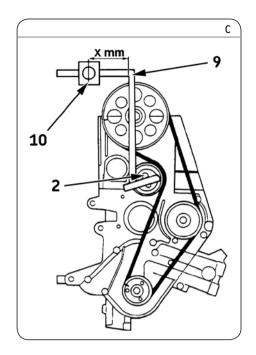


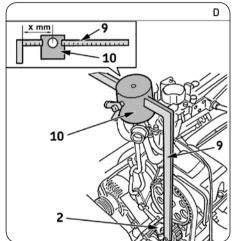
Refitting

Caution! Clean the bearing surfaces of the rollers.

- 7) Refitting the water pump: Firstly, fit the new water pump (3), apply the torque 10 Nm to the waterpump bolts (11); then check that the water pump pulley runs properly, and has no hard or locking spots.
- 8) Fit the new tension roller (2) in position.
- Fit the new timing belt (1) in the following order: camshaft sprocket, water pump pinion, crankshaft and tensioner roller (2) (Fig. A).
- 10) Check the alignment of the timing marks (4) and (6) (Fig. B).
- Fit tool (9) horizontally on the tensioner roller
 (2), position the weight at 65 mm on the ruler
 (Fig. C and D).
- 12) Turn the crankshaft by two turns in the normal running direction of the engine up to TDC, check the alignment of the timing marks (4) with (5) and (6) with (7) (Fig. B).
- 13) Tighten the nut (8) (Fig.B) of tension roller (2) to a torque of 28 Nm.
- 14) Remove tool (9) with the weight (10) (Fig. C and D).

- **15)** Check the tension of the timing belt **(1)** according to manufacturer recommendations. If required, readjust the belt tension using the tensioner roller **(2)**.
- 16) Refit and tighten the crankshaft pulley.
- **17)** Refit the elements removed in reverse order to removal.
- **18)** Fill the cooling circuit with the permanent fluid recommended.
- 19) 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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