

NT 01012

VKMA 01255 –
VKMC 01255-1/-2 –
VKMA 01259 –
VKMC 01259-1/-2

Audi / Chrysler / Jeep / Mitsubishi /
Seat / Skoda / Volkswagen /Dodge

VKMA 01255



VKMC 01255-1



VKMC 01255-2

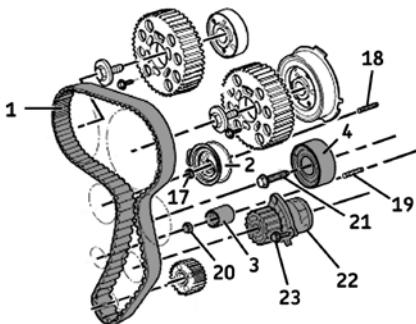


VKMA 01259



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) Turn the engine to set the crankshaft at TDC. The timing mark (see black arrow) on the crankshaft sprocket is then in vertical position (**Fig. B1**). Fit the locking tool (5) on the crankshaft sprocket (**Fig. B1**).



- (5): T10050
- (6): T10100
- (7): 3359/T20102
- (9): T10020/U-30009A
- (15): T10172/T200018A
- (8): 25 Nm
- (17): 20 Nm + 45°
- (18)/(19): 15 Nm
- (20): 20 Nm
- (21): M10 Bolt = 40 Nm. +90 degrees (VKMA 01255)
M12 Bolt = 90 Nm + 90 degrees (VKMA 01259)
- (23): 15 Nm



Caution! When the teeth shape of the crankshaft sprocket is **ovalshaped**, the timing mark (see black arrow) is facing right (**Fig. B2**). Fit the locking tool (6) on the crankshaft sprocket (**Fig. B2**).

- 4) Lock the camshaft sprockets using the pins (7) (**Fig. C**).
- 5) Untighten the fastening bolts (8) on the camshaft sprockets until the sprockets can be tilted in their oblong holes (**Fig. C**).
- 6) Loosen the tensioner roller fastening nut (17) (**Fig. A**).
- 7) Using the tool (9), turn the adjustment dial (10) of the tensioner roller **counter-clockwise** to loosen the belt (**Fig. D**).
- 8) Remove RH engine mounting bracket, then remove the timing belt (1).

Note: Do not remove the RH engine mounting bracket until the belt has been slackened!

VKMC 01259-1



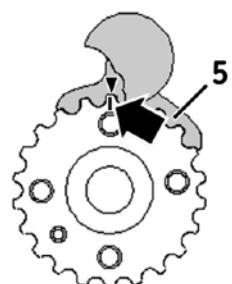
VKMC 01259-2



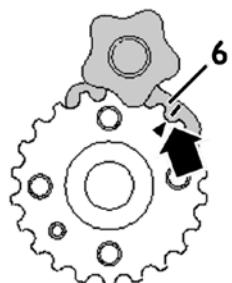
- 9) Remove tensioner roller (2) and the idler rollers (3) and (4) (**Fig. A**).
- 10) Remove the studs (18) and (19) (**Fig. A**).
- 11) **Removing the water pump (22) (VKMC 01255-1/2 VKMC 01259-1/2):** firstly bleed the cooling circuit, check it is clean, and clean if required; secondly fully loosen the water pump fastening bolts (23) and remove the pump (**Fig. A**).

B

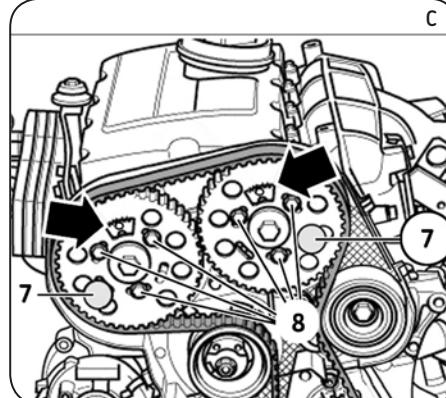
B1



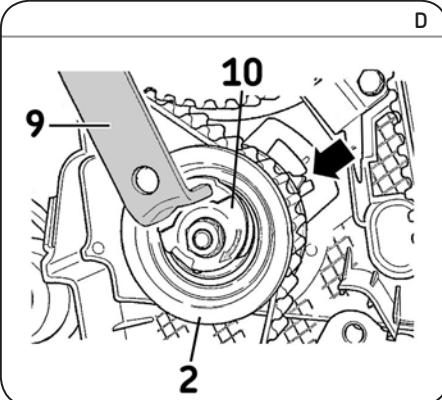
B2



C



C



Install Confidence

VKN 1000



SKF

Refitting

Caution! Clean the bearing surfaces of the rollers.

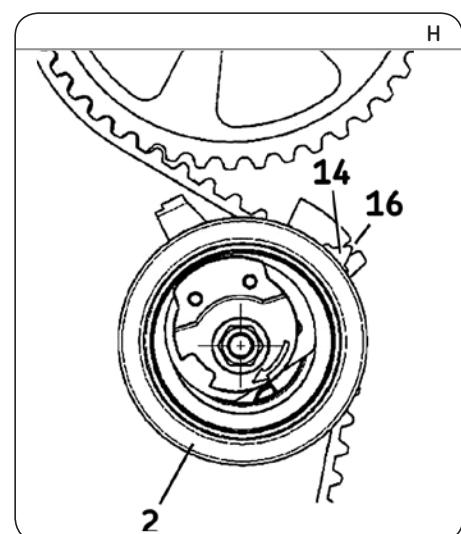
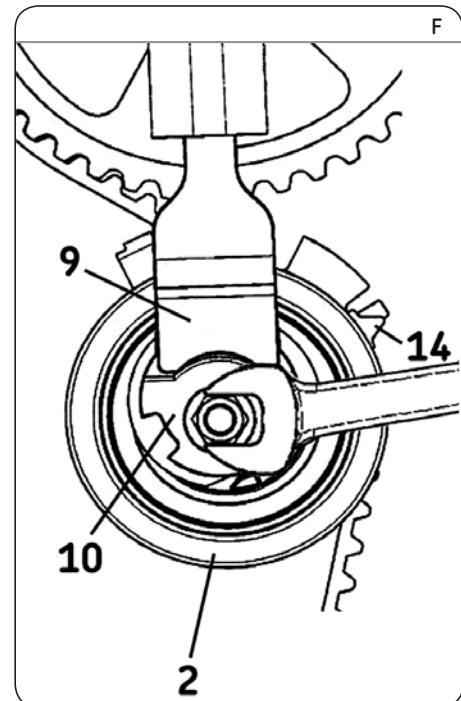
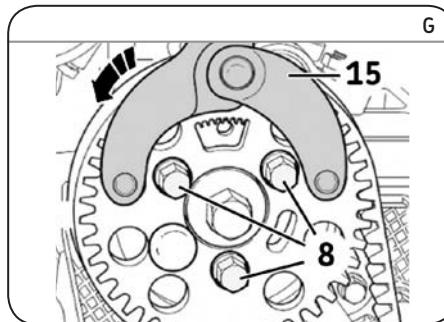
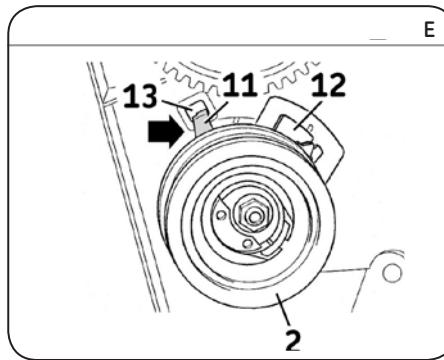
- 12) **Refitting the water pump:** firstly, fit the new water pump (22), apply the torque **15 Nm** to the waterpump bolts (23) (**Fig. A**); then check that the water pump pulley runs properly, and has no hard or locking spots.
- 13) **Fit and tighten the new studs (18) and (19) to 15 Nm.**
- 14) First fit the new idler (3) and tighten the new nut (20) to **20 Nm**. Then fit the new idler (4) (VKMA/C 01255 M10 = **40 Nm. + 90 Degrees**) (VKMA/C 01259 M12 = **90 Nm. + 90 Degrees**)

Note: In the VKMA/C 01259 the idler retaining bolt must be torqued to manufacturer recommendations! Failure to do so could cause excessive vibrations, and damage to the engine!

- 15) Fit the new tensioner roller (2). Tighten slightly its new fastening nut (17).

Note: When refitting the new tensioner roller (2), check that the positioning stud (11) on the roller plate (12) is properly engaged in the slot (13) of the engine block (**Fig. E**).

- 16) Check the timing of the crankshaft and camshaft (timing tool (5) or (6) (**Fig. B1 or B2**) and gauges (7) (**Fig. C**)).
- 17) Fit the new timing belt (1) in position in the following order: crankshaft sprocket, idler roller (3) tensioner roller(2), camshaft sprockets, idler roller (4), and water pump sprocket
- 18) Tighten the timing belt (1): turn the adjustment dial (10) on the tensioner roller (2) clockwise using the tool (9), while holding the fastening nut (17) of the roller in position using a hex nut wrench (**Fig. F**). Continue turning the adjustment dial (10) until the moving index (14) is aligned with the right edge of the roller plate (**Fig. F**). Then tighten the fastening nut (17) at **20 Nm + 45°**.
- 19) Fit the tool (15) in order to tighten the fastening bolts (8) at **25 Nm** on the camshaft sprockets (**Fig. G**).
- 20) Remove all the tools.
- 21) Rotate the crankshaft 2 turns in the engine rotation direction up to TDC.
- 22) Lock the camshaft sprockets using the pins (7) (**Fig. C**).
- 23) Fit the timing tool (5) or (6) on the crankshaft sprocket (**Fig. B1 or B2**).
- 24) Check the setting of the moving index (14) (**Fig. H**) should be aligned with the notch (16).



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