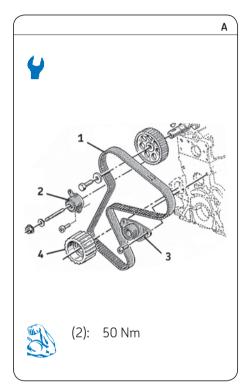
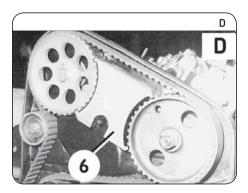
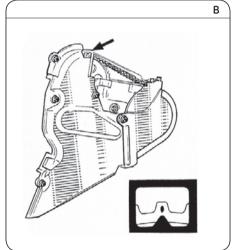
VKMA 06126



Renault

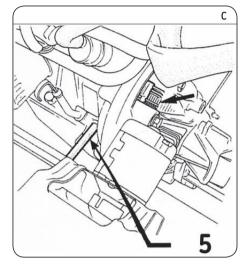






## Removal

- 1) Disconnect the battery according to the vehicle manufacturing guidelines.
- Prepare the vehicle for the timing replacement according to the vehicle manufacturing guidelines.
- 3) Lock the flywheel and remove the crankshaft nulley
- Set the engine to TDC by aligning the mark on the camshaft sprocket with the fixed mark on the timing cover (Fig. B).
- 5) Insert the gauge (5) in the hole provided (Fig. C).
- 6) Check that the crankshaft does not turn.
- 7) Remove the upper and lower timing casings.
- B) Lock the camshaft and injection pump sprockets using the tool (6) (Fig. D).
- 9) Loosen tensioner roller (2).
- **10)** Remove the timing belt (1).
- **11)** Remove the tensioner roller (2) and idler rollers (3) and (4) (Fig. A).



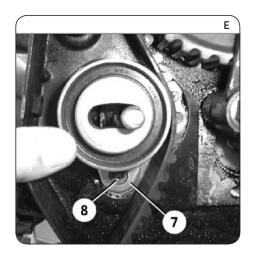
## Refitting

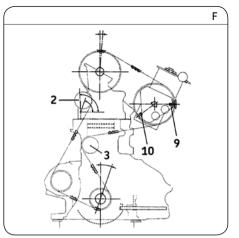
**Caution!** First clean the bearing surfaces of the rollers.

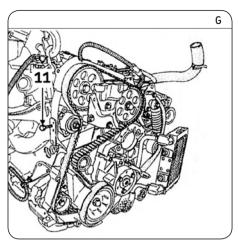
- 12) Refit the new idler rollers (3) and (4).
- **13)** Refit the new tensioner roller **(2)**. The hole in the plate **(7)** of the roller must be placed on the positioning pin **(8)** (**Fig. E**).
- 14) Fit the new timing belt (1) by aligning the marks on the belt with the fixed marks on the camshaft, injection pump and crankshaft sprockets (Fig. F).
- **15)** Apply the rotation direction (arrow on the belt) and the following fitting sequence: crankshaft sprocket, idler roller (3), injection pump and camshaft sprockets, tensioner roller (2), then idler roller (4).

## **Install Confidence**





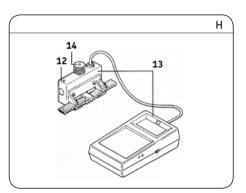




**Caution**: There are two types of injection pump sprockets:

- A sprocket with a mark (9) for a BOSCH injection pump and a mark (100) for a ROTO DIESEL pump (Fig. F).
- A sprocket in one or two parts with a single mark. Therefore, these marks must be considered when fitting the timing belt.
- **15)** Fit a bolt (**11**) on the rear timing cover, and screw it to tighten the timing belt (**1**) (Fig. H).
- **16)** Fit the sensor (**12**) of the belt tension gauge (**13**) onto the belt (**Fig. I**).
- 17) Turn knob (14) on the sensor (12) until you hear three "clicks" (Fig. I). Depending on type of tension controller.
- **18)** Turn the bolt (**11**) (Fig. H) until the tension gauge (**13**) shows a reading of **29 SEEM units** (Fig. I).
- 19) Tighten the tensioner roller (2) to a torque of 50 Nm.
- 20) Remove the TDC gauge (5) and the tool (6) (Fig. C and D).

- 21) Remove the belt tension gauge (13) (Fig. I).
- **22)** Turn the crankshaft through three revolutions in the engine rotation direction.
- 23) Refit the TDC gauge (5) (Fig. C) and the belt tension gauge (13) (Fig. I).
- 24) Check the tension value of the belt. If it is incorrect, readjust this value by turning the bolt (11) once more (Fig. H).
- 25) Remove the TDC gauge (5) (Fig. C), the bolt (11) (Fig. H), and the belt tension gauge (13) (Fig. I).
- **26)** Check the timing of the injection pump.
- **27)** Refit the remainder of the removed elements in the reverse order to removal.



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