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Install Confidence





## Refitting

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

- 16) Refitting the water pump: Firstly fit the new water pump (17); then check that the water pump pulley runs properly, and has no hard or locking spots.
- 17) Refit the new idler rollers (3) and (4) (Fig. A).
- **18)** Refit the new bolt for the spring (6) (Fig. A).
- 19) Clip the new spring (5) to the new tensioner roller (2) (Fig. A).
- 20) Replace the tensioner roller (2) then put it in a slack position using an Allen key (Fig. D). Tighten the tensioner roller fastening bolt (14).
- 21) Check that the engine is at TDC by raising the crankshaft pulley: marks (7) and (8) must be aligned (Fig. B). Remove the crankshaft pulley.
  22) Check that the tool (10) is in place (Fig. C).
- 23) Fit the new timing belt in the following order: crankshaft pin, idler roller (4), camshaft sprocket (11), camshaft sprocket (12), tensioner roller (2) and idler roller (3) (Fig. A).

**Note:** Check that the edge of the belt between the crankshaft pin and the camshaft sprocket **(11)** is tight (**Fig. D**).

- 24) Slacken the fastening bolt (14) of the tensioner roller (2), the belt tightens automatically. Tighten the tensioner roller fastening bolt (14) to a torque of 35 to 40 Nm.
- **25)** Remove the tool (**10**) (**Fig. C**).
- 26) Replace the crankshaft pulley then turn the crankshaft twice to TDC: Check that the various marks are aligned (7) and (8) (Fig. B).
- 27) Check that the tool (10) can be inserted easily (Fig. C).

**Note:** The timing system is set correctly when the camshaft timing tool **(10)** can be easily engaged in the grooves (**Fig. C**).

28) If the camshaft timing tool cannot be pushed in easily, lock the camshaft sprockets with the tool (13) then slacken their fastening screws (Fig. E). Make sure that the sprockets turn freely on their axes and turn the camshafts until the tool is inserted (**10**) (**Fig. C**).

- 29) Tighten the camshaft sprocket fastening bolts (19) to a torque of 67 to 72 Nm.
- 30) Refit the elements removed in reverse order to removal respecting the crankshaft pulley tightening torque of 110 to 120 Nm.
- **31)** Fill the cooling circuit with the permanent fluid recommended.
- 32) 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).

## Notice: Always follow the vehicle manufacturer instructions when working on the

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