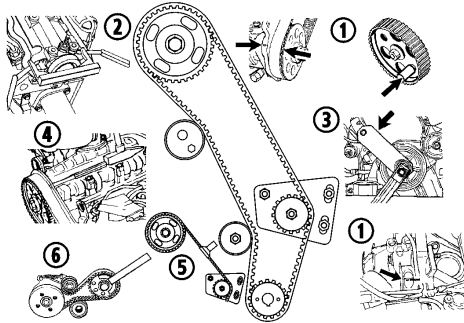




Timing



Warnings and recommendations

Unless otherwise advised by the manufacturer, the following procedures are recommended:

Always fit a new timing belt after removal

Check the tensioner and idler pulleys; renew if necessary

Never turn the engine in the direction opposite to that of normal operation

Inspect the belt(s) for cracks, fraying, wear and oil contamination

Note: The engine must be cold before timing belt adjustment

Note: Avoid bending, torsion or traction

General

Check the timing marks before timing belt removal,

Timing marks may vary. Check the specification

Note: Be aware of security codes on radios

Removal

Remove the lower engine cover,

Remove the front bumper

Remove the upper cross member

Unscrew the radiator and pull it forward

Remove the fan

Remove the ancillary drive belt,

Remove the ribbed belt tensioner

Remove the valve cover

Remove the timing belt upper covers

Align the timing marks, fig 1



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Loosen the injection pump tensioner

Remove the camshaft gearwheel and injection pump timing belt together (use the special tool to keep the gearwheel in position), fig 6

Use the special tool to lock the camshaft, fig 2, 2065 A

Rotate the camshaft until the special tool touches the cylinder head

Measure the clearance on the other side

Fit a feeler gauge at both sides, half the thickness of the clearance

Check the timing marks again

Remove the crankshaft pulley

Fit the crankshaft locking tool, VAG 3256

Remove the timing belt lower cover

Loosen the tensioner

Remove the timing belt

Installation

Loosen the camshaft gearwheel, fig 4

Fit the timing belt

Turn the tensioner anti-clockwise to adjust the timing belt tension

Check the tension with a tension gauge, fig 5, VW 210

The tension is set if the tension gauge indicates a value between: , 12 - 13

Fit the injection pump timing belt together with the camshaft gearwheel

Check the timing marks again,

Connect the spring to the tensioner to adjust the timing belt tension, fig 6

Tighten the camshaft gearwheel

Refit all other parts in reverse order of removal

Torque settings

Tensioner: , 45 Nm

Camshaft gearwheel: , 30 Nm + 90°.

Camshaft gearwheel at pump side: , 160 Nm

Crankshaft pulley: , 160 Nm.+ 180°

Special tools

Camshaft gearwheel locking tool (injection pump): , VAG 3036.



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Camshaft locking tool number 2065A, VAG 2065 A.

Crankshaft pulley position tool:, VAG 3256.

Tension gauge: VAG number 210, VAG 210.