

21: Replacing timing belt, B5254T

V70 (-00), 1998, B5254T, AW50-42, L.H.D

24/5/2013

**PRINT****21: Replacing timing belt, B5254T****Replacing timing belt****Special tools:**

998 8500

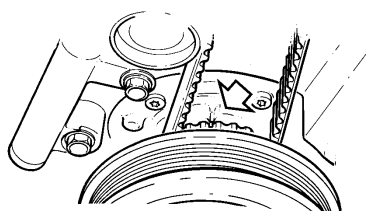
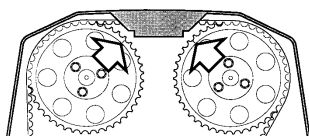
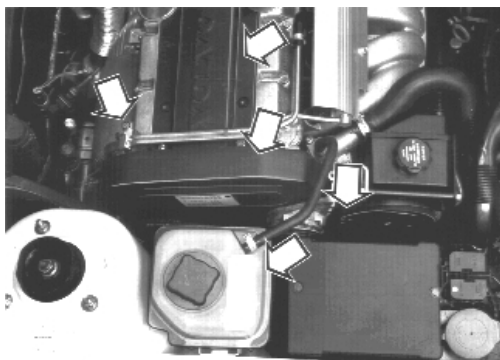
999 5456

Remove:

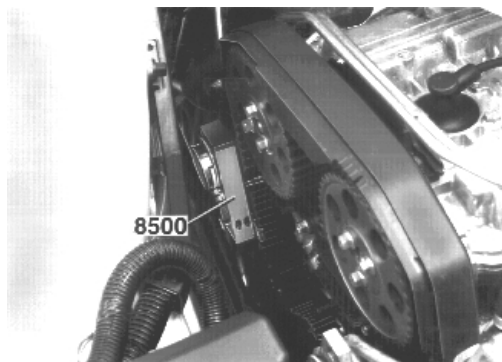
- spark plugs cover
- two fuel lines clamps
- lift up expansion tank and place over engine to one side
- front timing cover
- auxiliaries belt

**Position
camshafts/crankshaft
according to marking**

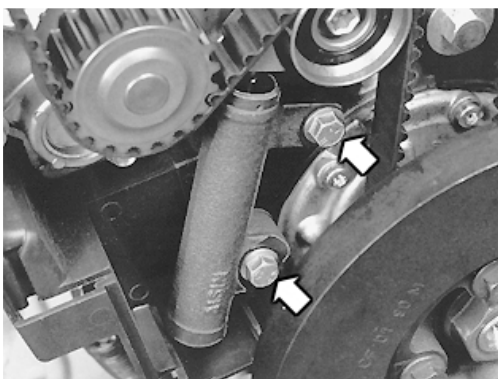
Remove right front wheel and slacken off fender liner slightly.
Remove vibration damper heat shield.
The camshaft pulleys should rotate until all the markings correspond.


**Check measure the belt
tension**

Wait **5 minutes** after aligning the timing belt.
Position measuring instrument 998 8500 between the exhaust camshaft pulley and the coolant pump.
Read the value using a mirror. The measuring instrument must **not** be removed before the reading is made.
For the 21 mm belt, the tension must be within the range of **3.5 - 4.6** units.
For the 23 mm Belt the following applies:
B 5204/5254/5234 **2.5-4.0** units
B5252 **2.7-4.2** units
If the above values are **not** obtained the tensioner damping unit **must** be replaced.



Removing timing belt

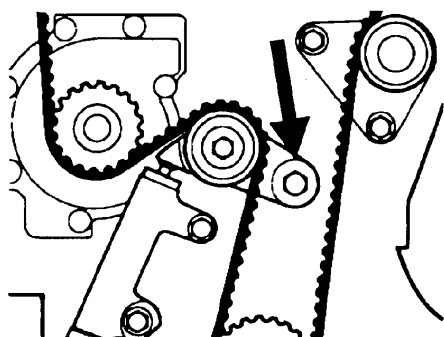


Hold tensioner damping unit upper screw.
Slacken off the lower screw.
Turn the tensioner damping unit so that the pulley comes free.

Remove:

- the lower screw
- tensioner damping unit
- upper timing cover
- timing belt

Greasing the bushing



Engines with automatic timing belt tensioners should have the lever bushing greased every time the belt is changed or the tension pulley removed. The lever arm must be greased so that the bearing does not stick and give the wrong tension.

Remove:

- Tension pulley lever screw
- Tension pulley
- Sleeve behind screw

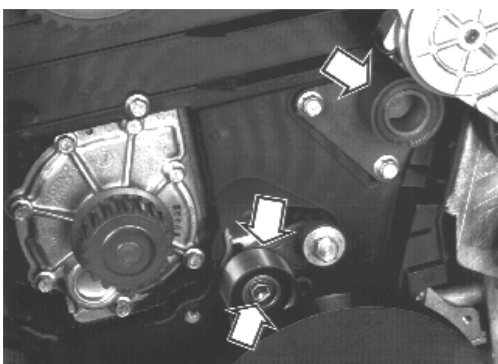
Grease the surfaces on the lever bushing, the screw and the sleeve with grease P/N. 11 61 246-2 (50g) or 11 61 247-0 (500g).

Install:

- Sleeve
- Tension pulley
- Tension pulley lever screw

Tighten the screw to **39 ±5 Nm**.

Check tensioner and idler pulleys



Spin the pulleys and listen for noise in the bearings.

Check that the tensioner pulley actuator arm has not seized in its bearing. Check the idler pulley and tensioner pulley are tightened correctly.

Pulley tighten to:	(1992-93)	40 Nm
	(1994-)	30 Nm
Idler pulley, tighten to:		24 Nm

Adjusting the mechanical belt tensioner

If a mechanical belt tensioner is being used, adjust according to Adjusting the mechanical belt tensioner .

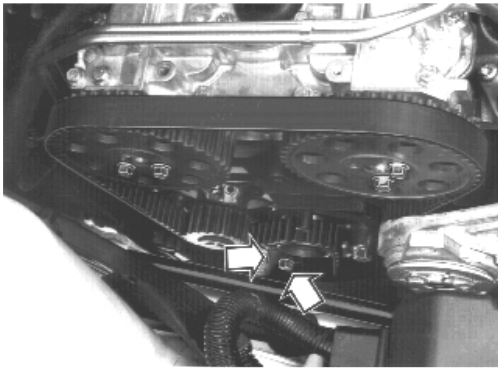
Lock tensioner damping unit



Check that there is no visible leakage. Compress the tensioner damping unit with tool 999 5456 . Position tensioner damping unit in the tool and screw tool center nut to the bottom. Wait until compression is complete and install a **2 mm** lock pin in the piston.

Note! If there is leakage or no resistance when pushed in or if it cannot be pushed in the tensioner damping unit must be replaced.

Install the new timing belt



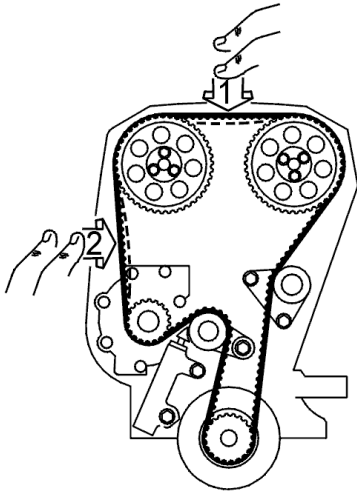
Install the tensioner damping unit, torque tighten to **25 Nm**. Place belt around crankshaft and right idler pulley. Place belt over camshaft pulley. Position belt around coolant pump and press the belt over the tensioner pulley.

Installing camshaft pulley and timing belt

Caution! The timing belt must be installed correctly to obtain the correct timing. Before tightening the screws between the camshaft and camshaft pulley press hard (or hit with a plastic mallet) twice on the belt between the camshafts and then twice on the belt between the exhaust camshaft and the engine coolant pump. Do this to ensure that the gears mesh with the timing gear pulleys.

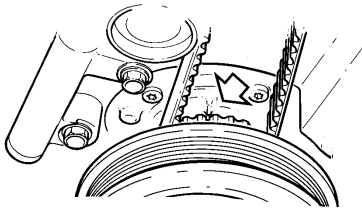
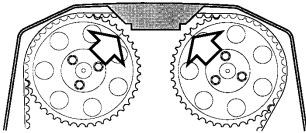
Secure drive belt

Press hard or knock the belt twice in the direction of arrow (1) and twice in the direction of arrow (2) using a rubber mallet.



Secure camshaft pulleys

Tighten the camshaft screws (2 x 3) to 20 Nm.



Turn the engine crankshaft two turns

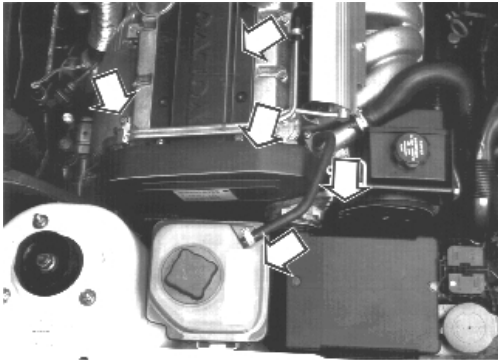
Pull the lock pin out of the tensioner/damping unit. Position the upper timing cover. Turn crankshaft two revolutions and check that the markings on the crankshaft and camshaft timing gear pulley align.

Install:

- two fuel lines clamps
- front timing cover
- auxiliaries belt
- spark plugs cover
- expansion tank
- vibration damper protective panel
- fender liner, wheel

Test function

Test drive engine.



24/5/2013

PRINT