Audi> B4 > 1993 -1995 2.8 LiterV6 2V Engine Mechanical, Engine Code(s): AAH, AFC 13 -Engine -Crankshaft, Cylinderblock

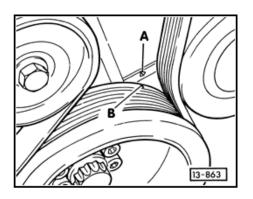
Toothed cam shaftdrive belt, rem oving and installing

Rem oving

CAUTION!

Mark the running direction of the beltwith a crayon ormarker before rem oving.Reinstalling a used belt in reversed running direction could dam age the belt.

- = Remove ribbed belt => Page 13-3.
- Remove ribbed belttensioner.
- Unclip cam shaftdrive beltguard on both sides.
- Turn crankshaft by hand to Top Dead Center (TDC) position.

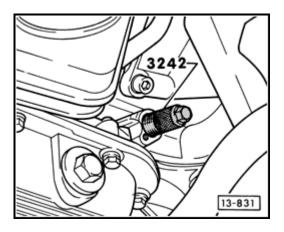


- 1 Notch -A-mustalign with notch -B-.
- Check cam shaftposition.
- 1 Large holes in cam shaftsprocket boking plates must face each other.

Ifnot:

- Turn crankshaftone m ore revolution.
- Rem ove CrankshaftPosition (CKP) sensor from left-hand side of cylinderblock, behind oilcooler (above oilpan).

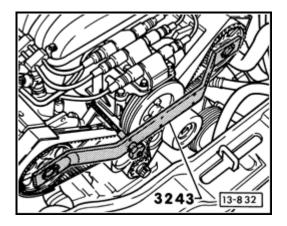
1 TDC recess in crankshaftmustbe positioned behind open hole for CKP sensor (inspect visually orby touch).



- Thread crankshaftholding tool3242 into CKP sensorhole, and tighten slightly.

- Rem ove vibration dam per=> Page <u>13-12</u>.

= Remove bwerbeltguard.

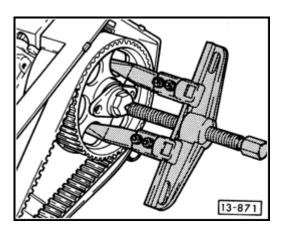


- Installcam shaftholding tool3243.

- Loosen left and right cam shaft sprocket bolts approx.3 turns.

DO NOT remove the bolts.

-Remove cam shaftholding tool3243.



- Loosen right and left cam shaft sprockets from tapered ends of cam shafts using puller (Kukko 20/10 shown).
 - * Puleram smustengage on marofsprocket
 - * W ith engine installed in vehicle, use puller 3032

- Loosen and rem ove toothed belt.

Installing

- Install toothed beltoverboth cam shaft sprockets.

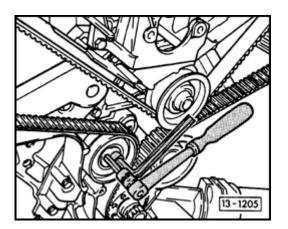
- Installcam shafthobing tool3243.

= Install toothed beltoverrem aining sprockets, then overtensionerroller last.

Note:

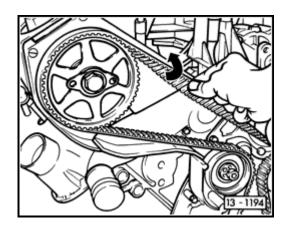
The cam shaftsprockets must be bose enough on the tapered ends of the cam shafts so that the cam shafts can still be turned, but not so bose that the sprockets tiltout of alignment.

Adjusting belt tension



The toothed belttension adjustment is done by turning the tensioning rollerwith 8 mm hex-key wrench.

-Adjusttensionerso it can just be moved slightly by hand.



Check beltension by gripping belthalf-way between cam shaftsprocket and coolant pump.

Twisting the beltwith the thum b and index finger, it must be just possible to twist it approx.90 $^{\circ}$.

- Fully tighten tensioner center bolt with 8 mm hex-key wrench.

Tightening torque: 45 Nm (33 ft b)

- Fully tighten cam shaftsprocketbolts.

Tightening torque: 30 Nm (22 ft.b) plus 1/2-turn (180 °)

= Remove crankshaftholding tool3243.

- ReinstallCrankshaftPosition (CKP) sensor.

Tightening torque:10 Nm (7 ft b)

Note:

fcrankshaftcenterbolthas been rem oved:

- Always replace.
- * U se only new double hex-head (12-pt.) cap screw , grade 9.8.
- * Tightening torque (with boltoiled): 200 Nm (148 ftb) plus additional1/2-turn (180 °)