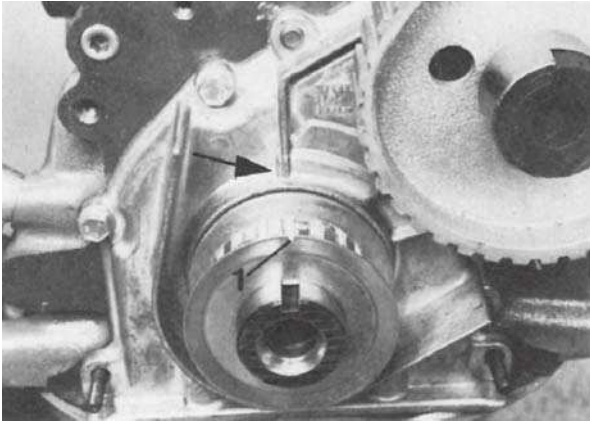
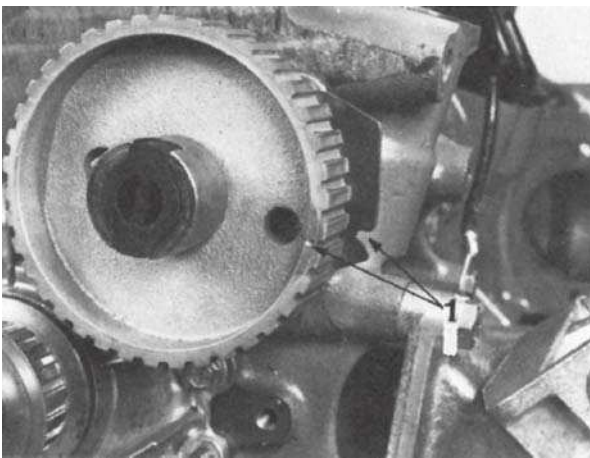


4F Installing the toothed belt

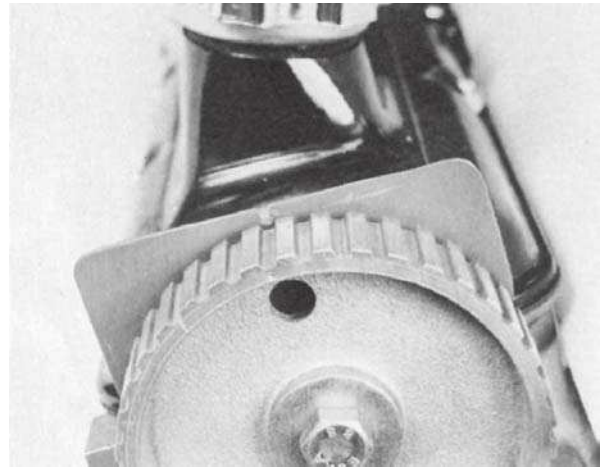
Installing the toothed belt 230, 250, AQ131, AQ151



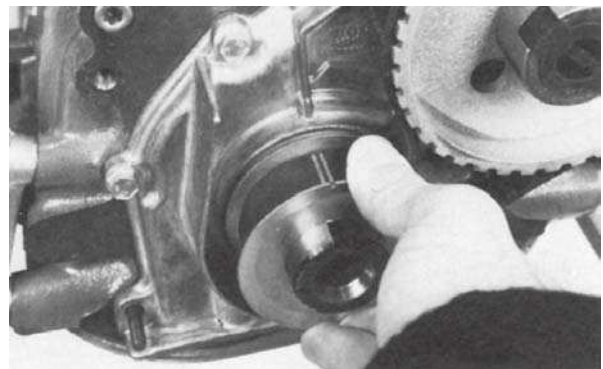
183. Check to make sure that the recess (1) of the outer guide plate coincides with the marking of the housing.



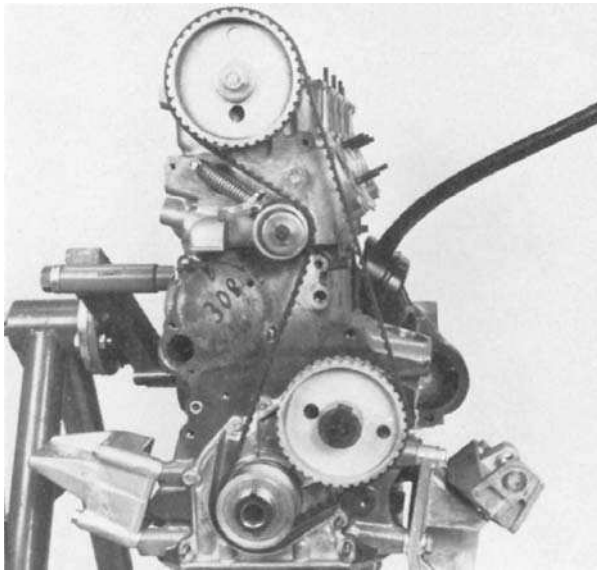
184. Align the intermediate shaft with the marking (1).



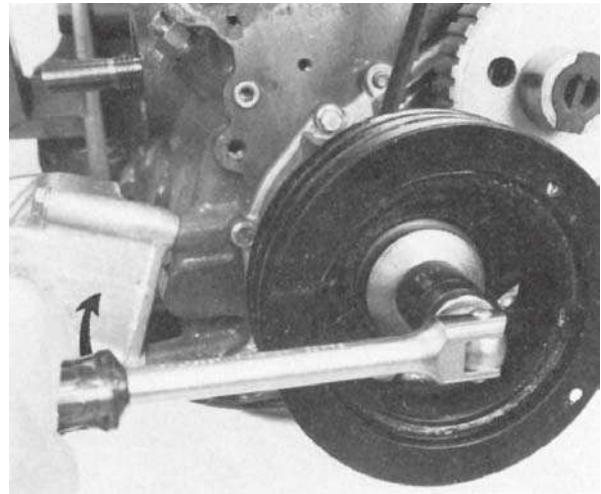
185. Place the valve cover without the gasket on the cylinder head. Position the marked plate on the two front stud bolts. Then make sure that the marking of the camshaft gear lines up with the plate marking. Note! not all engines have the marked plate.



186. Check the condition of the toothed belt.
NOTE! Grease or oil must not be on the belt. Then adjust the markings of the belt as follows: Two lines against the marking of the crankshaft guide plate and one line against the marking of the intermediate wheel. The last marking, also one line, against the marking of the camshaft gear.
NOTE! At the crankshaft marking, the belt must be pushed down into the correct tooth gap for checking.

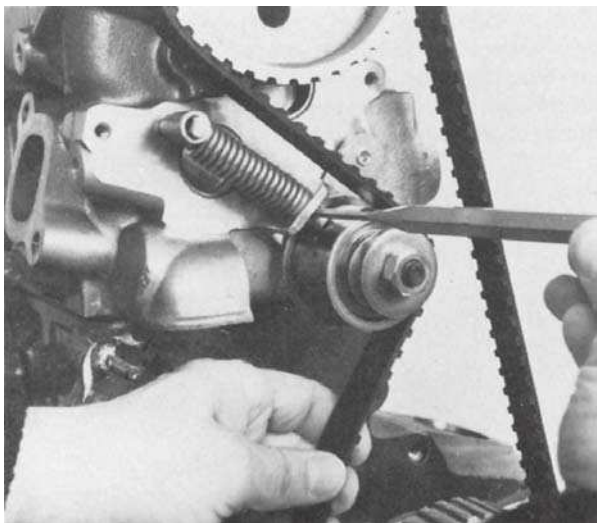


187. Carefully move the belt onto the belt tensioning roller being careful not to damage the belt.

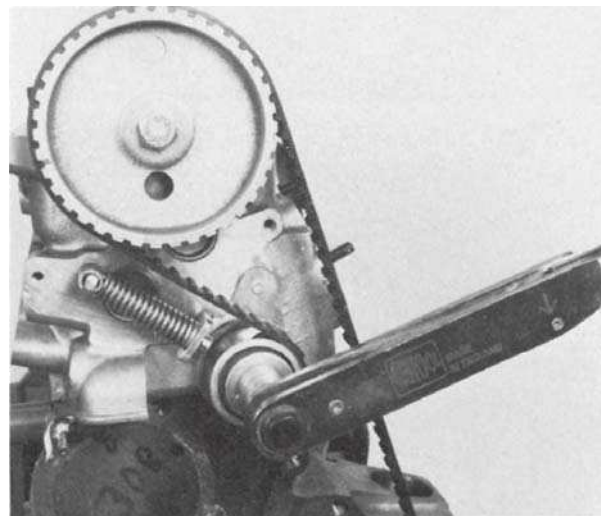


189. Turn the crankshaft clockwise a few degrees. This is in order to remove the 'slack' between the belt wheels.

NOTE! Do not turn the crankshaft anti-clockwise. This will cause the belt to jump over giving an incorrect setting.



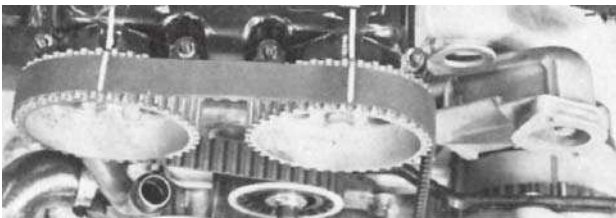
188. Make sure that the nut of the belt tensioner is not tightened. Compress the tensioner and remove the drill (or other tool) to allow the spring to tension the belt. Tighten the nut.



190. Back off the nut of the belt tensioner again to allow the spring to tension the belt again. Make sure that the belt tensioner is not seized in its pivot. Torque the nut 50 Nm (5.0 kpm/36 ft.lbs). The belt must be tensioned at least once per season and replaced every 500 hours of operation. Remove the valve cover and install the valve cover gasket.

Installing the toothed belt 251DOHC, AQ171

191. Inspect the belt tensioner. There should be no play in the bearing. If the contact surface of the roller is damaged, the roller and the belt must be replaced. Fine-adjust the camshaft gears and the crankshaft gear so that they will line up exactly with the respective markings on the valve cover and the seal holder behind the torsional damper.



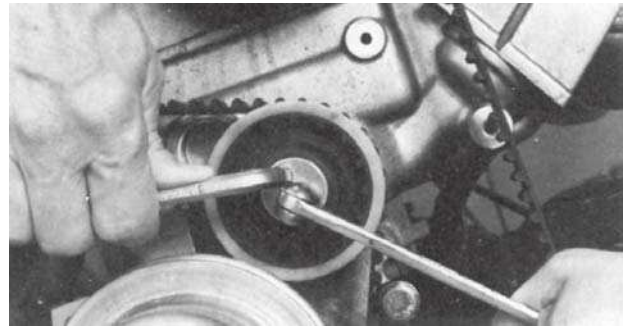
192. Install the belt so that the yellow (lines) markings align as follows:

2 lines against the crankshaft gear marking and 1 line against each of the camshaft gear markings. For the crankshaft gear marking, the belt has to be depressed somewhat into the correct tooth gap for checking. Also see under 250, AQ151).

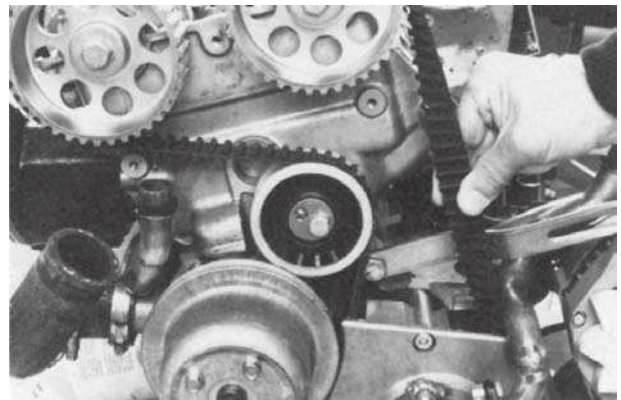
NOTE! For the 250, AQ151 the belt must be installed on the belt tensioner prior to being installed on the camshaft gears, this because the belt tensioner is provided with guiding edges.

Check carefully that the belt is installed so that the markings line up.

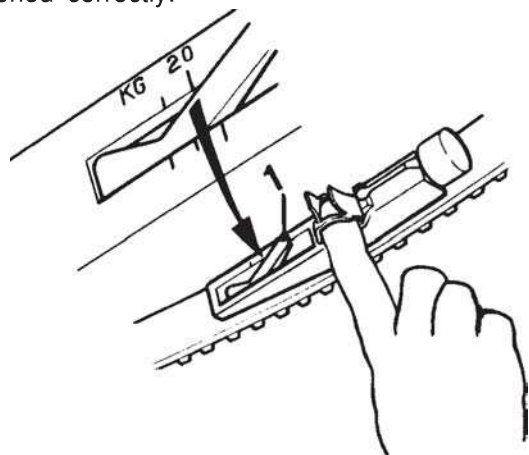
NOTE! It is not necessary to adjust the marking of the intermediate wheel against the belt marking.



193. Turn the belt tensioner to tension the belt and then tighten the Allen-head screw. Tool width: 8 mm. The belt must be tensioned at least once per season and be replaced after every 500 hours of operation.



194. Method 1: Correct belt tension. Turn the crankshaft a few degrees counter clockwise and check that the marking on the belt (2 lines) coincide with the marking on the guide plate. Then turn the crankshaft a few turns clockwise. Take the belt between the index finger and the thumb and twist it. It should be possible to twist the belt 90° by hand. Increase or decrease the belt tension, should the belt not be tensioned correctly.



195. Method 2: Tension the belt and place special tool part no 1159660-8 on the belt. 'Zero' the instrument by depressing the lever (1). Then press the tool against the belt until a 'click' is heard. Note the value of the tool. The correct value should be 20 to 25 Kilos (44–55 lbs). Tension or loosen the belt as required.