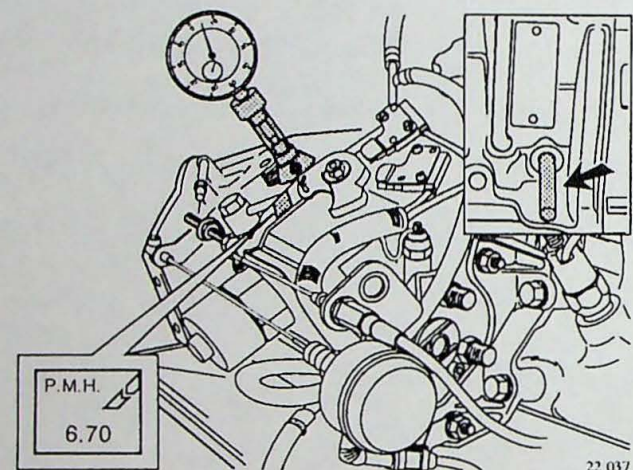
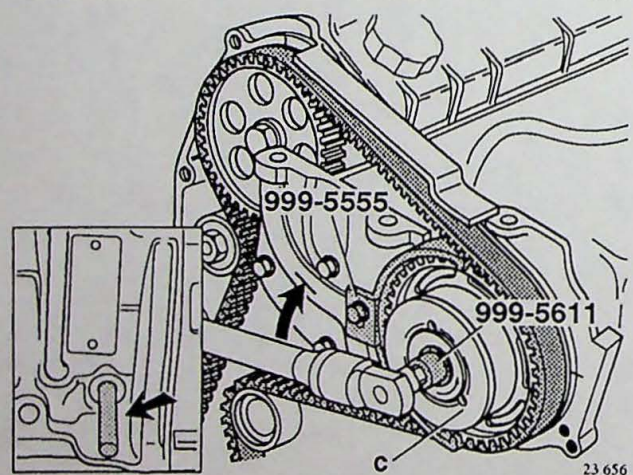


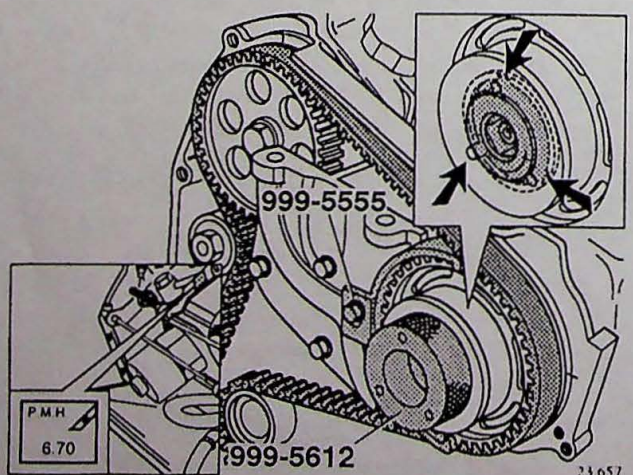
A3
Fit the measuring tool on the fuel injection pump
 Remove the locking pin and turn the crankshaft 1 3/4 revolutions in its normal direction of rotation.
 Fit measuring tool 999-5382:
 - remove the plug (B);
 - slide the measuring pin (2), which is part of the special tool, into the guideway of the pump;
 - locate and secure the holder (3);
 - position the clock gauge (4) and make sure that the plunger is pressed in at least 0.2 mm.
 Secure the clock gauge and set it at zero.



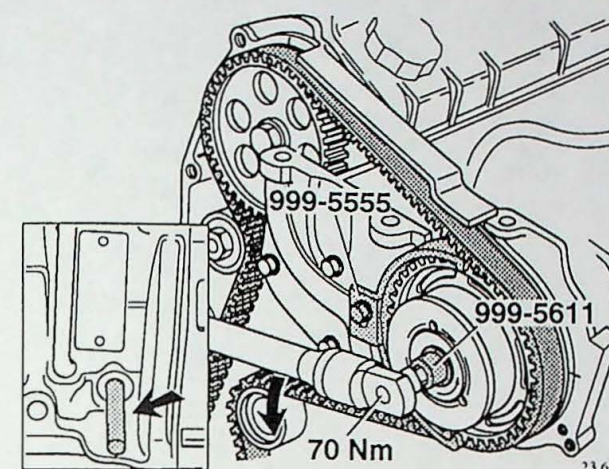
A4
Check the injection timing
 Turn the crankshaft in its normal direction of rotation until the clock gauge indicates approximately 5.00. Exert pressure on the locking pin and turn the crankshaft in its normal direction of rotation until the locking pin engages the recess in the crankshaft web.
 Read off the value on the clock gauge. Reference value for checking purposes ± 0.02 mm; is shown on the pump control arm.
 If this reference value is not obtained, see Operations A5 to A9.



A5
Release the screwed sleeve and nut assembly of the pump drive sprocket
 Locate locking tool 999-5555 between the pump bracket and the drive sprocket. Secure the tool with a bolt from the belt guard. Insert special tool 999-5611 in the screwed sleeve and nut assembly.
 Slacken (turning clockwise) the screwed sleeve and nut assembly one eighth of a turn.
 Remove locking tool 999-5555 and the locking pin. It should now be possible to turn the flange (C).



A6
Adjust the injection timing
 Fit special tool 999-5612 in the three holes of the flange.
 Then turn the tool with the flange until the jaws of the tool engage the three internal recesses of the drive sprocket; see the illustration.
 Turn the special tool with the flange clockwise until the backlash in the pump is eliminated and then turn it to 0.5 mm below the reference value for adjustment. Now turn the tool with the flange counter-clockwise until the reference value for adjustment is reached as shown on the pump ± 0.02 mm.



A7
Tighten the screwed sleeve and nut assembly of the pump drive sprocket
 Locate special tool 999-5555.
Caution! Make sure that the drive sprocket is not displaced.
 Fit special tool 999-5611 in the screwed sleeve and nut assembly and tighten the assembly steadily (turning counter-clockwise) to 70 Nm.
 Remove locking tool 999-5555 and the locking pin.
 Check the setting again.

Remove the measuring tool

Remove special tool 999-5382 together with the clock gauge and measuring pin.
 Fit the plug with a new O-ring. Tightening torque: 10 Nm.
 Remove the locking pin and fit the plug with a new sealing washer back in the cylinder block. Tightening torque: 20 Nm.
 Fit the oil filler cap.

Fit:

- the timing case covers;
- the side guard;
- the noise insulation cover on the engine.

VST	Operations no.	Description	Cause Codes
	23622-2	Checking/adjusting the fuel injection pump	16