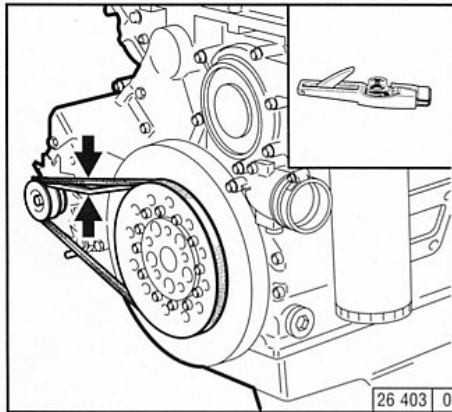


Operation/Maintenance BFM 1015

Service/Maintenance: Belt Drives

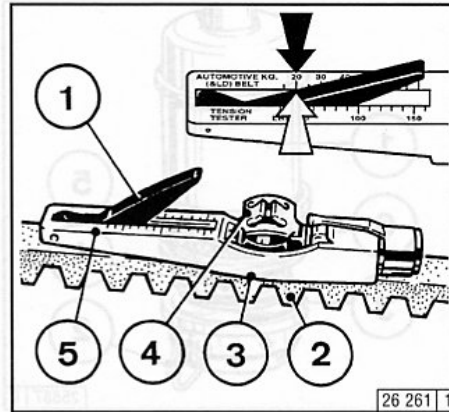


6.5.1 Checking Alternator V-Belt



Checking

- Inspect entire V-belt for damage
- Renew damaged V-belts.
- After installing new belts, run engine for 15 minutes, then check belt tension.
- Use a belt tension gauge (see 9.3) to check belt tension.
 - Place indicator arm 1 into gauge.
 - Position gauge on V-belt 2, midway between the pulleys, with flange 3 on bottom of gauge against the edge of belt.

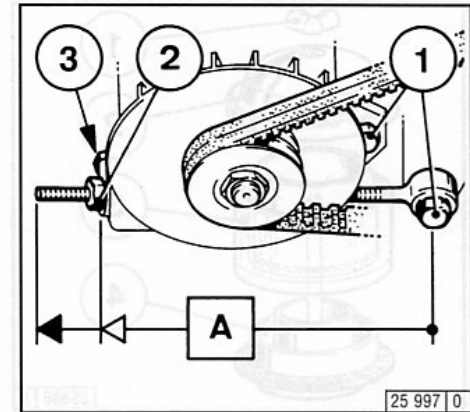


- Press slowly on the black pad 4 at right angles to belt 2 until the spring is heard or felt to trigger.
- Carefully remove the gauge without altering the position of the indicator arm 1.
- Read off the value: Turn the gauge sideways to see the exact spot where the top of the black indicator arm 1 intersects scale 5 (arrow). For settings, see 9.1.
- If necessary, retension belt and measure again.



Check / retension and renew V-belts only with the engine off. Refit belt guard, if provided.

6.5.2 Retensioning / Renewing Alternator V-Belt

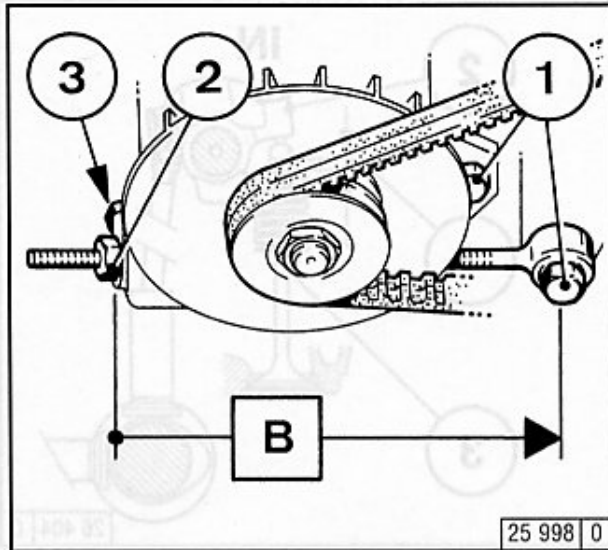


Retensioning

- Slacken hex. bolts 1, 2 and 3.
- Turn lock nut 2 in direction A until correct V-belt tension is attained.
- Tighten bolts 1, 2 and 3.

Operation/Maintenance BFM 1015

Service/Maintenance: Belt Drives



Renewing

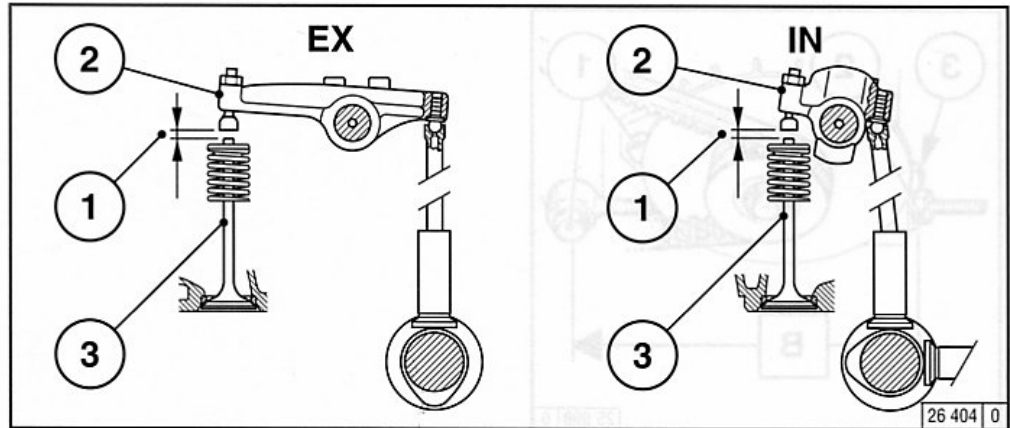
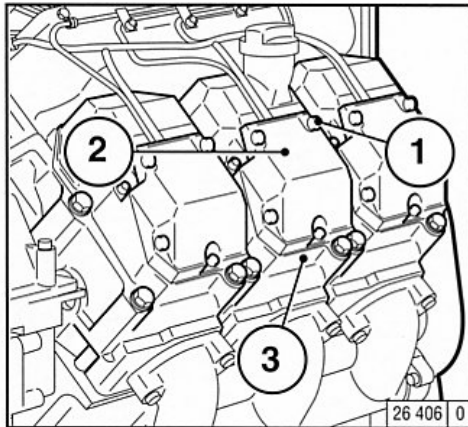
- Slacken hex. bolts 1, 2 and 3.
- Turn lock nut 2 in direction B as far as it will go. Now the new V-belt can be easily placed in position.
- Tighten bolts 1, 2 and 3 until correct V-belt tension is attained (see Section 6.5.1).

Operation/Maintenance BFM 1015

Service/Maintenance: Adjustments



6.6.1 Checking / Adjusting Valve Clearances

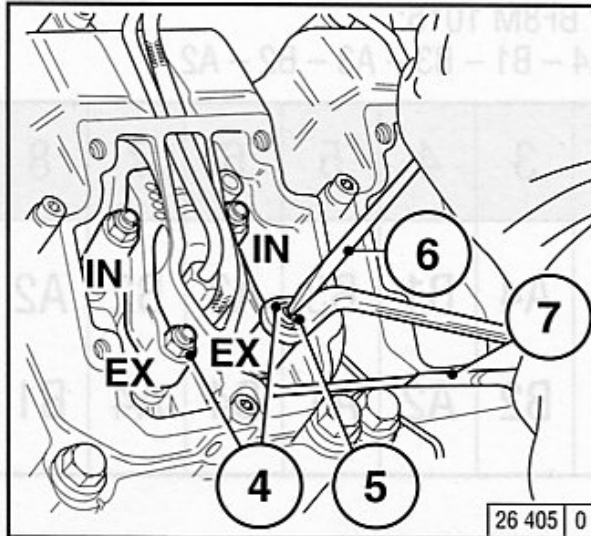


- Before adjusting valve clearance, allow engine to cool down for at least 30 minutes. The oil temperature should be below 80 °C (176 °F).
- Position crankshaft as per schematic, see 6.6.1.1.
- Slacken bolts 1.
- Remove rocker cover 2 together with gasket 3.

- Check valve clearance 1 between rocker arm/tappet contact face 2 and valve stem 3 with feeler gauge (there should only be a slight resistance when feeler blade is inserted).
For permissible valve clearance, see 9.1.

Operation/Maintenance BFM 1015

Service/Maintenance: Adjustments



- If necessary, adjust valve clearance as follows:
 - Loosen lock nut 4 using wrench 7.
 - Adjust set screw 5 by means of screwdriver 6 in such a manner that with lock nut 4 tightened (wrench), the correct valve clearance 1 is attained.
- Check the valve clearances at each of the remaining cylinders and adjust if necessary.
- Refit rocker cover (together with new gasket if necessary).

Operation/Maintenance BFM 1015

Service/Maintenance: Adjustments



6.6.1.1 Valve Clearance Adjustment Schematic

Firing Order BF6M 1015:
A1 – B3 – A3 – B2 – A2 – B1

Firing Order BF8M 1015:
A1 – B4 – A4 – B1 – B3 – A3 – B2 – A2

Sequence	1	2	3	4	5	6		1	2	3	4	5	6	7	8
Valve overlap	A1	B3	A3	B2	A2	B1		A1	B4	A4	B1	B3	A3	B2	A2
Adjusting	B2	A2	B1	A1	B3	A3		B3	A3	B2	A2	A1	B4	A4	B1