Tightening torque		Nm
Bolts for cylinder head cover		3
Special tools		
Spring compressor for valve spring	7004-7004	123 589 03 61 00
Magnetic finger for valve cone halves	11004-6202	116 589 06 63 00
Conventional tool		
Cylinder leak tester	e.g. Bosch, EFAW 210 A Sun, CLT 2281	

## Note

From October 1984 to January 1985 no Rotocaps were installed on exhaust valves and from January to May 1985 on intake valves.

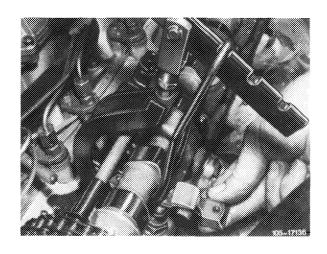
Observe valve spring preload (see 05-260).

## Removal

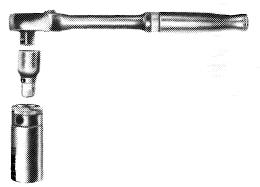
1 Remove rocker arm (05-230).

## Caution!

Reinstall rocker arms in the same place from which they were removed.



- 2 Unscrew spark plugs.
- 3 Set piston of respective cylinder to ignition TDC. For this purpose rotate the engine with the tool combination on the crankshaft.

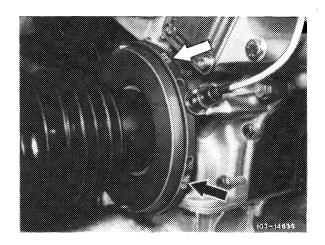


R100-5952

**Note:** The numbers 0, 90, 180 and 270 (arrows) are stamped into the vibration damper.

In the following positions of markings opposite the indicator the pistons are at TDC as follows:

Piston at TDC
1 and 6
5 and 3
4 and 7
8 and 2

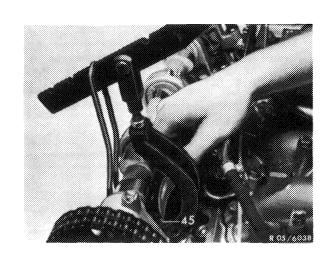


4 Support valves by means of compressed air (cylinder leak tester).

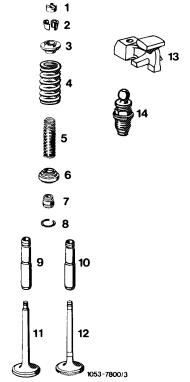
## Caution!

The valves should not be seated on the piston crown to prevent bending of the valves.

- 5 Push valve spring retainer down by means of spring compressor.
- 6 Remove valve cone halves with the magnetic finger.
- 7 Remove valve spring retainer and valve spring.
- 8 Check valve spring, replace if necessary (05-260).



- 9 Insert valve spring with tight coil facing cylinder
- 10 For further installation proceed vice versa to sequence of removal.



- 1 Thi.
  2 Valve
  3 Valve sp.
  4 Outer valv
  5 Inner valve sp.
  6 Rotocap
  7 Valve stem seal
  8 Locking ring
  9 Valve guide intake
  10 Valve guide exhaust
  11 Intake valve
  12 Exhaust valve
  13 Rocker arm
  14 Hydraulic valve clearance compensating element