**Special tools required:**

- 11 3 160
- 11 4 400
- 11 5 100

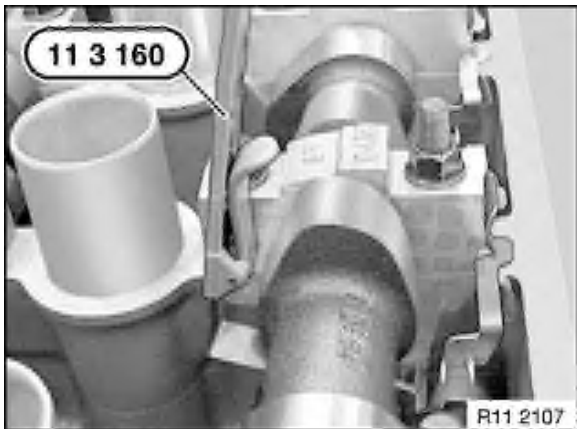
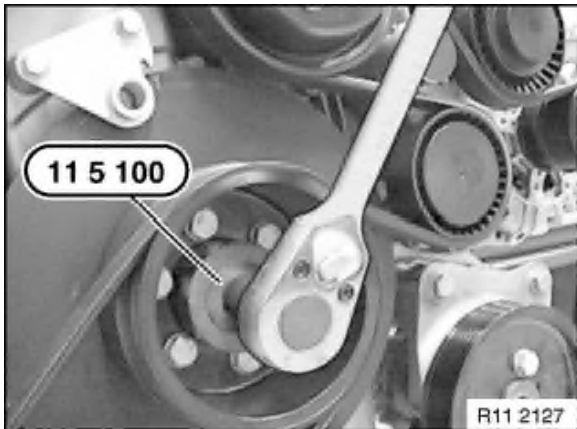
Remove cylinder head.

Remove fan clutch with fan impeller and fan cowl.

Remove spark plugs.

*Note:*

Fit special tool 11 5 100 on four screws on vibration damper and crank engine.



With cams pointing upwards, measure valve clearance with special tool 11 3 160 .

Note down measured values.

Compare measured valve clearance with prespecified ventill clearance.



If the measured valve clearance is outside the stipulated valve clearance tolerance:

**Caution!**

It is very easy for the adjustment plates to fall down.

Place a clean cloth underneath the valve to be adjusted.

Seal oil return and vent holes.

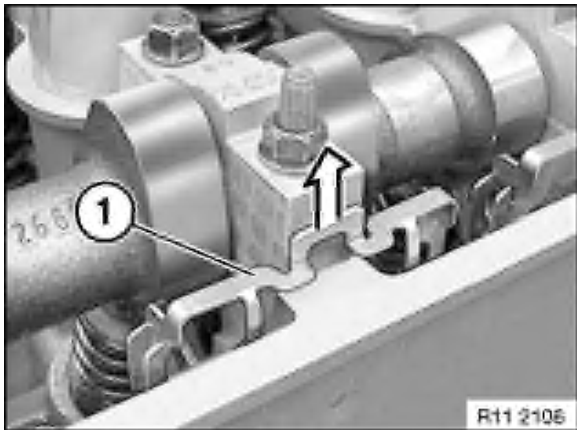
Seal opening to timing case cover at first cylinder.

Seal spark plug bores.

**Caution!**

Do not damage sealing surface for cylinder head cover.

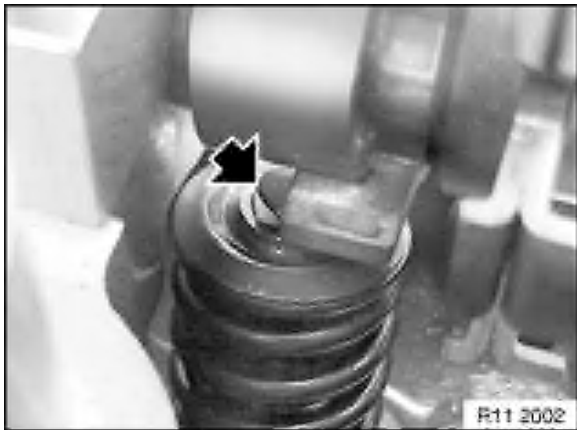
Carefully detach retaining clip (1) from rocker arm shaft.



**Caution!**

It is very easy for the adjustment plates to fall down.

Carefully slide rocker arm to one side.

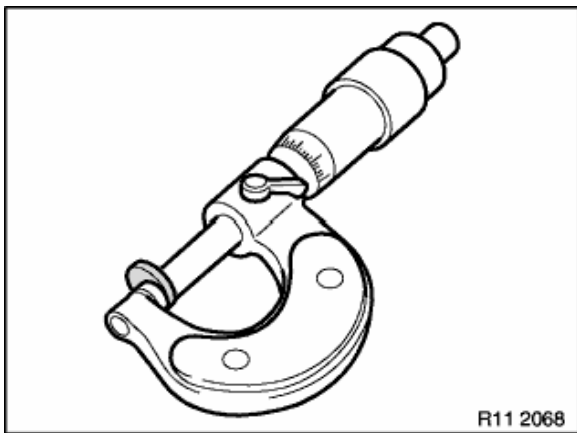


*Note:*

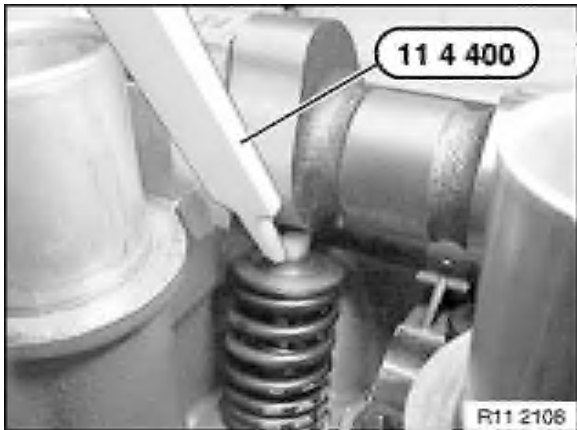
Special tool 11 4 400 is magnetic.

Remove adjustment plates with special tool 11 4 400 .





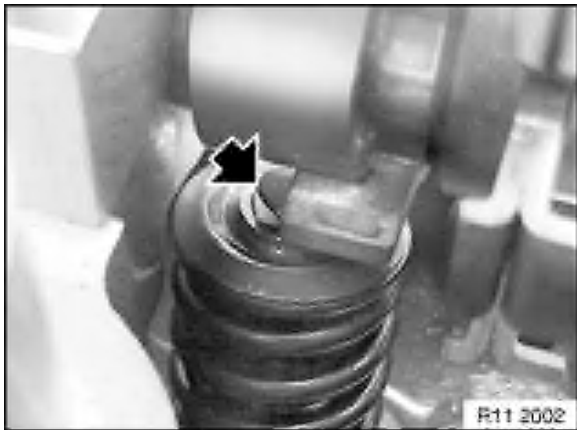
Measure removed adjustment plates.



### Caution!

It is very easy for the adjustment plates to fall down.

Insert required adjustment plates with special tool 11 4 400 .



### Caution!

Incorrect installation possible!

When the rocker arm is pushed back, there is the risk that the adjustment plate will also be pushed out.

Carefully push rocker arm back and check correct position of adjustment plates.

### Note:

If necessary, check correct position of adjustment plates with a mirror.



### Caution!

Do not damage sealing surface for cylinder head cover.

Install retaining clip (1).

### Caution!

Retaining clip (1) must snap into place on left and right over rocker arm shaft (2).

Check valve clearance