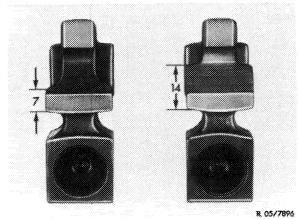
Valve clearance Cold engin		ca. 20 °C)	Warm en	Warm engine (60 $^{\circ}$ C $\pm$ 15 $^{\circ}$ C)		
Intake	0.101)		0.151)			
Exhaust	0.25		0.30			
1) 0.05 mm more for consistent outs	ide temperatures belov	v –20 °C.				
Tightening torque				Nm	(kpm)	
Cylinder head cover bolts and ca	apped nuts			5	(0.5)	
Special tools						
Depressor for valve spring		Car con		110 589	0 04 61 00	
Valve adjusting wrench, 17 mm		J <sub>1004-7003</sub>		110 589	01 01 00	
Contact grip to turn engine (Par pression recorder 001 589 46 21			11004-8487	001 589	9 46 21 08	

## Note

1st version rocker arm, guiding surface 7 mm.

2nd version rocker arm, guiding surface 14 mm.

A 1st version rocker arm is replaced by a 2nd version rocker arm when repairing.

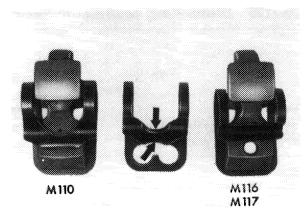


## Attention!

The rocker arms and spring clamps of engines 110 are not interchangeable with the rocker arms and spring clamps of engines 116 and 117.

The standard spring clamps (arrows) can be installed in engines 110, 116 and 117.

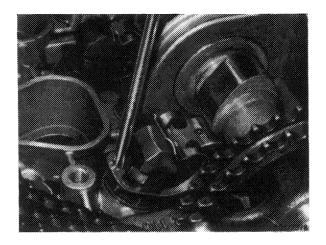
Always install rocker arms on cam from which they were removed.



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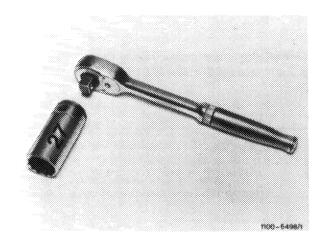
## Removal

1 Press off spring clamps with a screwdriver.

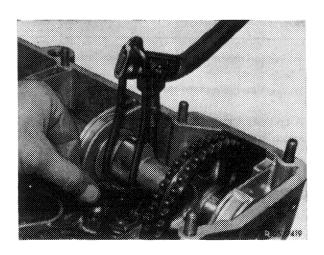


 $2\,$  Turn crankshaft with combination tool until cam peak is up.

Never turn engine on camshafts.

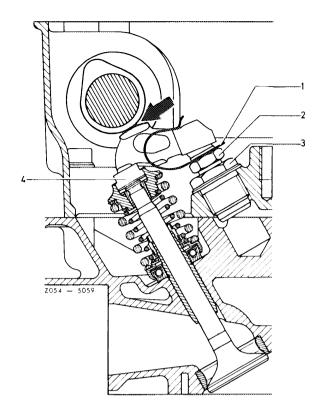


3 Remove rocker arms with installation and removal tool.



## Installation

- 4 Check oil spray bore in rocker arm for plugging.
- 5 Coat bearing surfaces of rocker arm with oil and install rocker arm.
- 6 Press spring clamps into grooves of adjusting screws.
- 7 Adjust valve clearance (05-210).



- Spring clamp Adjusting screw Threaded bushing Pressure pad