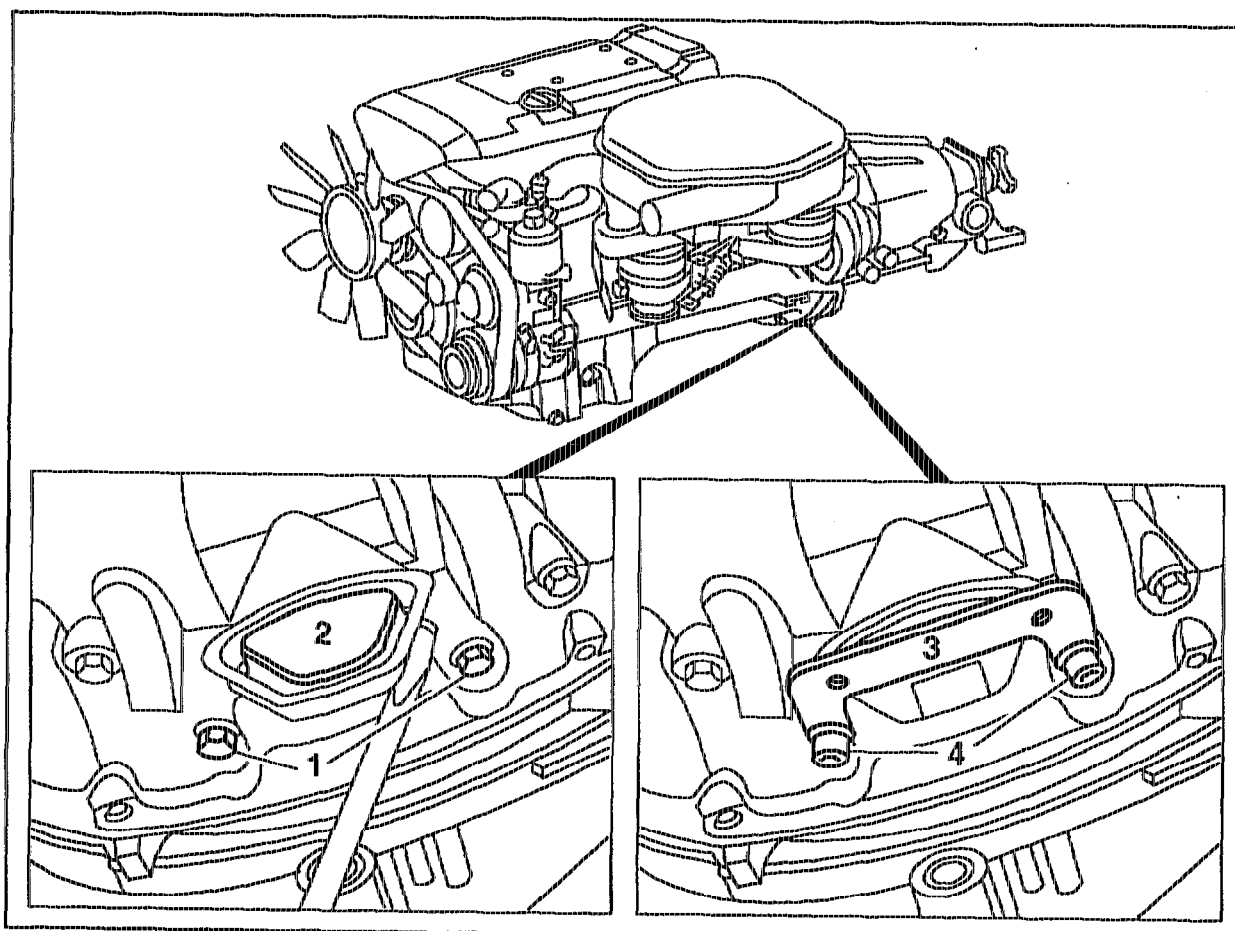


03-5000 Removing and installing retaining lock for crankshaft/ring gear



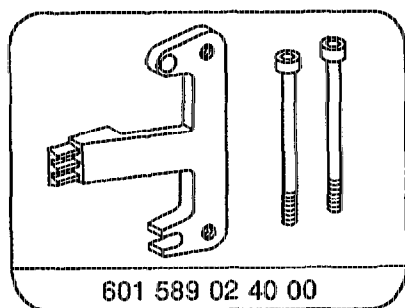
P03-5287-57

Closing cover (2) on rear of oil sump	take off, fit on.
M6 x 85 bolts (1)	unscrew, screw on.
Retaining lock (3) 601 589 02 40 00	allow to engage in ring gear, rotate crankshaft if necessary (01-0120).
Retaining lock (3)	unbolt, bolt on (10 Nm).



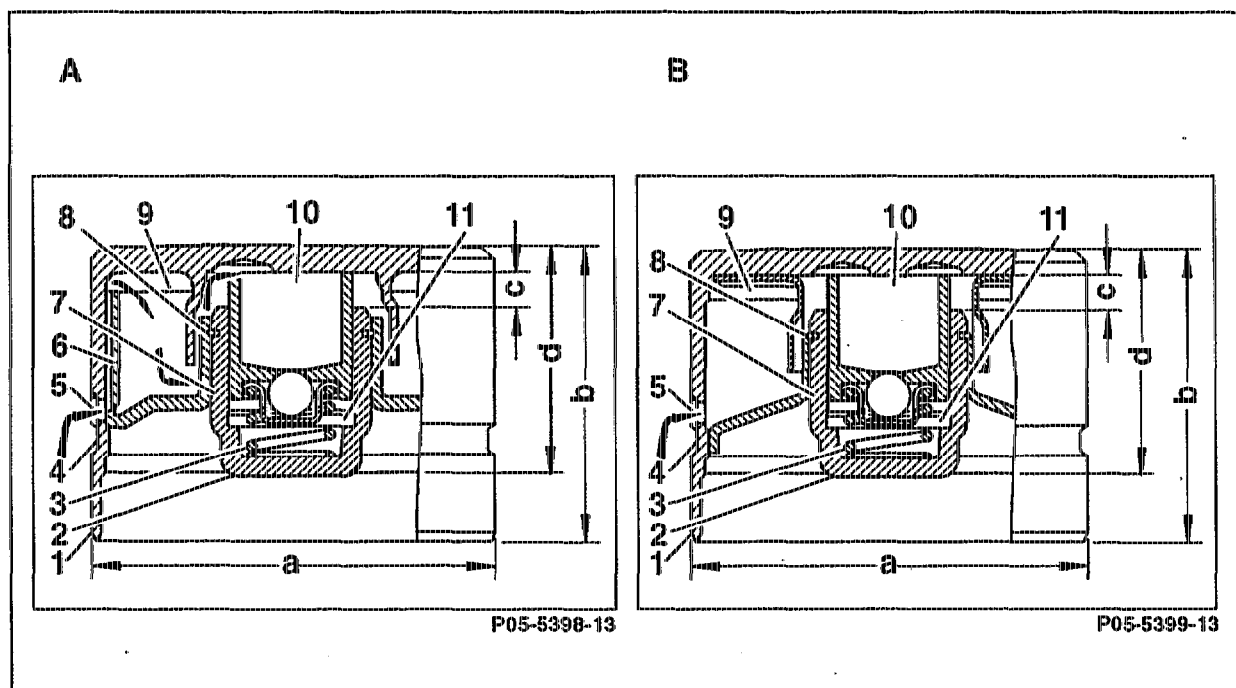
Bolt on retaining lock (3) with M6 x 90 bolts (4) otherwise the threads in the rear closing cover will be damaged.

Special tool



05-2110 Checking and replacing hydraulic valve clearance compensating elements (bucket tappets)

Operation no. of operation texts and work units or standard texts and flat rates
05-2010-2500



P05-5400-55

A Bucket tappet 1st version
a = 34.965 - 34.975 mm
Weight 82 g

B Bucket tappet 2nd version
a = 34.965 - 34.975 mm
Weight 67g up to 09/94
52 g as of 10/94

Checking

Cylinder head cover	remove, install (01-0500).
Cam on respective bucket tappet	position to base circle (lobe of cam must face up).
Bucket tappet	press with suitable tool (not steel tool).
Bucket tappets	if one tappet can be pressed more easily in comparison to the others, replace this bucket tappet.

Replacing

Relevant camshaft	remove, install (05-2200).
Bucket tappet of respective cylinder	pull up with rubber sucker and remove.



Install bucket tappet 1st version, 82 g, only together with double valve spring.

Bucket tappet 2nd version, 67 g, and 3rd version, 52 g, can be installed with the following valve springs,

- cyl. double valve spring,
- cyl. single valve spring,
- conical valve spring.

Magnets must not be used as minute iron swarf may gather on the magnetized surfaces of the bucket tappet and produces damage to buckets and cams.

The bucket tappets must be re-installed at the same point.

Basic bore	inspect visually.
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Commercially available tool

Rubber sucker Ø 30 mm	e. g. Hazet, no. 735-2
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