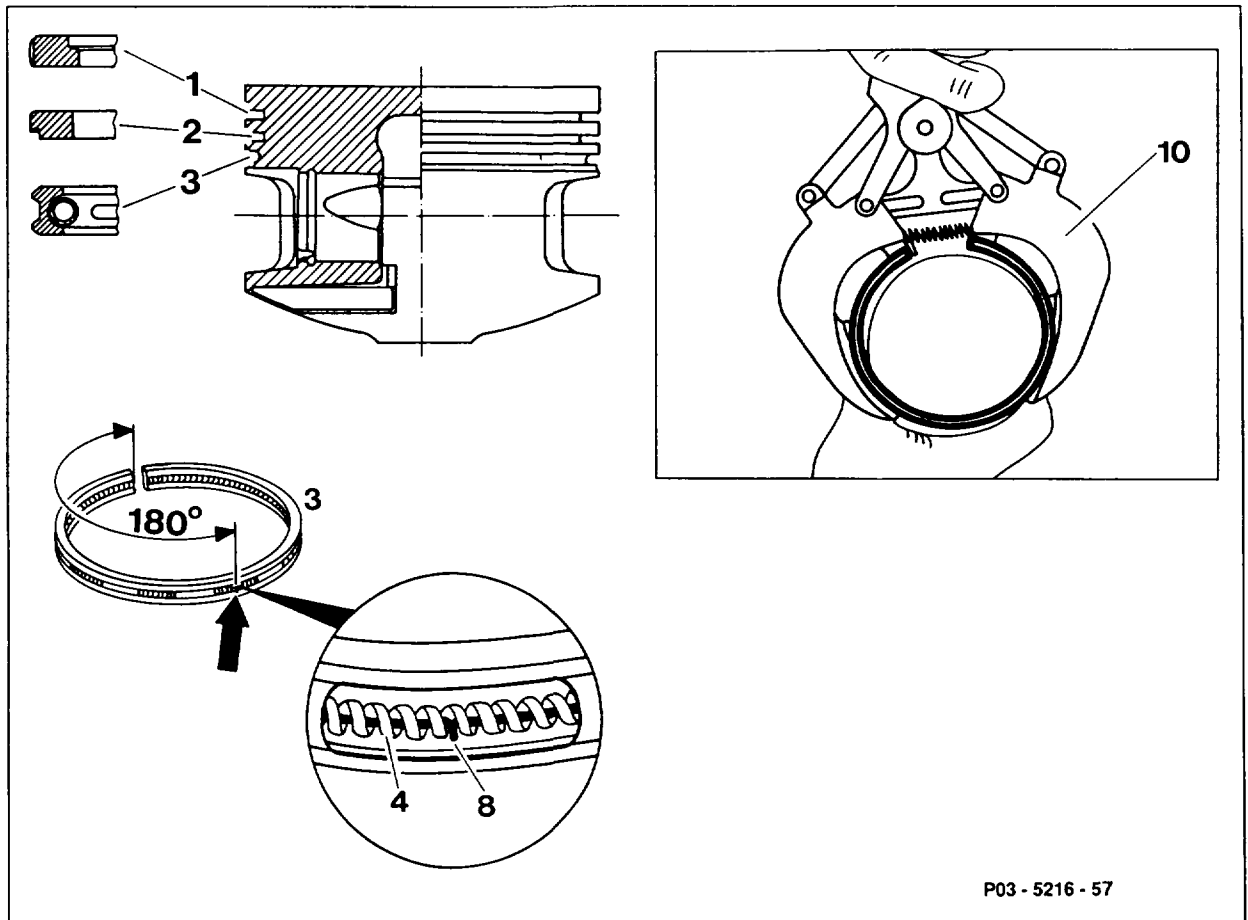


## 03-3170 Replacing piston rings

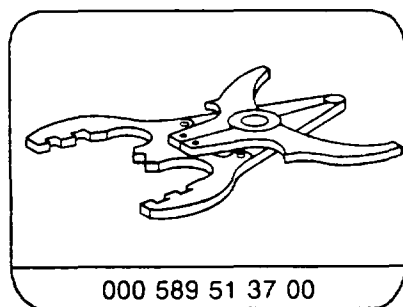
Preceding work:  
Piston removed (03-3160).



- 1 Rectangular ring, contact surface chrome-plated
- 2 Taper face ring, contact surface precision-turned
- 3 Bevelled ring with garter spring, contact surface chrome-plated

Gap and end clearance of piston rings	measure, see table.
Piston rings	remove with pliers (10) 000 589 51 37 00.
Width of piston rings	measure.
Piston ring grooves	clean
Oil drain bores in piston ring groove	clean
Piston rings only with identical ring width	install.
Installation position	note, "Top" faces up.
Hooked spring (8) in oil scraper ring (3)	install offset 180° to joint (arrow).

## Special tool



## Test data

Gap clearance of piston rings	Groove 1	0.20 – 0.40
	Groove 2	0.20 – 0.40
	Groove 3	0.20 – 0.45
End clearance of piston rings	Groove 1	0.015 – 0.050
	Groove 2	0.020 – 0.040
	Groove 3	0.010 – 0.045

## Note

When replacing piston rings, determine which rings are installed.

When performing repairs, fit pistons only with matching piston rings. Pay attention to piston ring  $\varnothing$  and height (03-3165).