

Data

Engine	Valve springs part No.	Color code	OD	Wire dia.	Length un-loaded	Spring force at preloaded length	when new N (kp)	limit value N (kp)
	optional		mm	mm	mm	mm		
116 117	inside spring 108 053 00 22 ¹⁾ 130 053 00 22	yellow/brown or purple/brown	22.2 22.0–22.4	2.5	45	21	228–252	205
						21.5	235	224–246
	outside spring 100 053 01 20	yellow/red or purple/red	34.1–34.5	4.75	49	30.5	863	843–902

¹⁾ Engine 116.980/981, 982, 983, 990, 991, 992 and 993 only.

Checkup

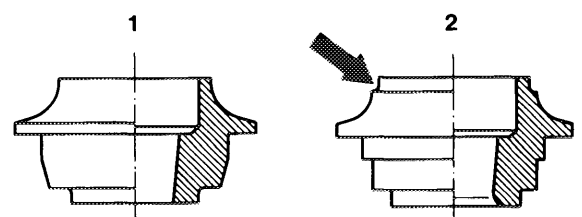
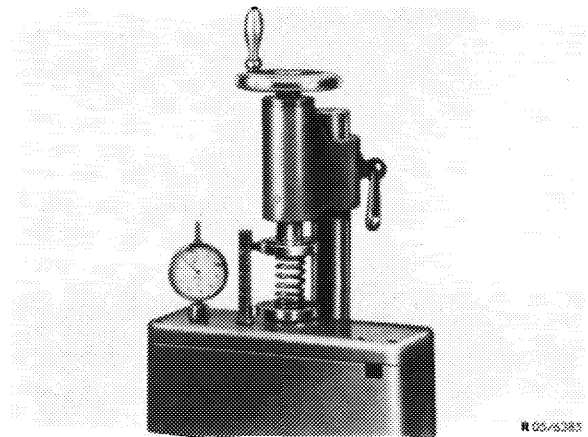
In the event of repairs, check valve springs prior to re-use for corrosion.

In addition, check spring force at specified length by means of a spring test scale. If values are less than the lower limit value, renew valve springs.

Attention!

Be sure to maintain limit values on engines with hydraulic valve clearance compensating elements. To make sure that this value is not less than specified on valves with a by now lower level (machined valve seats), use valve spring retainer, part no. 130 053 06 25.

This valve spring retainer (2) is identified by a machined groove (arrow).



- 1 Valve spring retainer, series
- 2 Valve spring retainer for increased spring force with machined groove

1054 - 9492