Data	Intake	Exhaust		
Valve seat width b	1.3-1.6	2.5–2.9		
Valve seat angle α		30°		
Correction angle top eta		60°		
Correction angle bottom γ		acc. to shape of cast- ing	3 1	
Permissible runout of valve seat		0.03		1054-6078
Minimum distance ''a and new valve seats	a" with new valves			
Intake		+0.03 to -0.43		
Exhaust	xhaust			
Maximum distance "a" with new valves and refaced valve seats		S		700
Intake		1 5	===	// AE
Exhaust	Company of the Compan	1.5		
The maximum distan	ce drops by the sa	ime amount as the cylind	ler head parting surfac	e is refaced.
Special tools				
Valve adjusting wrench 14 mm (two)			11004-6356	615 589 00 01 00
Holding wrench for valve spring cap		11004-7118		615 589 00 03 00
Installer for valve stem seals, intake and exhaust		11004.6191		617 589 00 43 00
Plug gauge 10 mm dia and exhaust valve gui		11004 - 8211	ÇE.	615 589 00 21 00

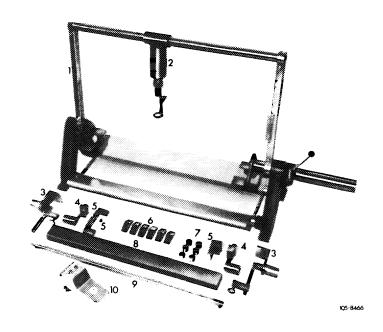
Commercially available tools

Cylinder head clamping fixture	e. g. Christ, 6801 Neckarhausen order No. DBK 60–2	
Valve seat borer	e. g. Hunger, 8000 München type VDNSL 1/45/30, order No. 236.03.308	
Tester for valve seats	e. g. Hunger, 8000 München order No. 216.93.300	

Note

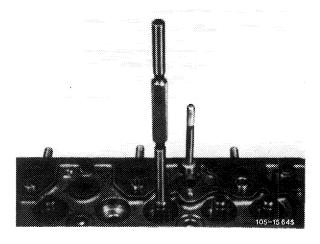
Mount cylinder head in clamping fixture for disassembly and treatment.

Reface valve seats with valve borer, valve grinder or valve cutter.



Refacing valve seats

1 Check valve guides, replacing if necessary (05-135).



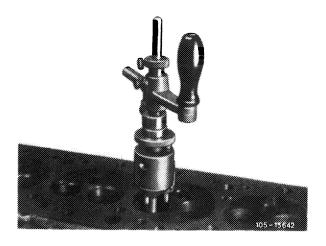
2 Reface valve seat (30°) (see tool maker's directions for use).

Caution:

Do not release pilot (013) until valve seat runout has been checked.

3 Measure valve seat width b and, if necessary, correct angle at bottom in accordance with shape of casting.

If necessary, additionally increase undercut (β) at 60° .



4 Check valve seat runout.

For this purpose slip testing sleeve (017) onto pilot (013), together with dial gauge holder (016) and dial gauge. Now turn testing sleeve, making sure that permissible runout of 0.03 mm is not exceeded.

013 Pilot 016 Dial gauge holder 017 Testing sleeve

5 Insert new valve and measure maximum distance "a".

