Engine	116.960 ¹)	116.960 ²)	117.960	117.962	
	116.961^{1})	116.961 ²)	117.961	117.963	
		116.962		117.964	
		116.963		117.96	
		116.964		117.967	
		116.965		117.968	
Center of connecting rod bearing bore	138.050		1	154.550	
to center of connecting rod bushing bore (L in Fig. item 5)	137.950		- 1	154.450	
Width of connecting rod at connecting rod bearing bo		24	.890		
	bre	24	.857		
Width of connecting rod at connecting rod bushing bo		28	.000		
	Jie	27.900			
Basic bore for connecting rod bearing shells (A in Fig. item 5)	55.619	51.619	55.619	51.619	
	55.600	51.600	55.600	51.600	
Basic bore for connecting rod bushing (a in Fig. item 5)	29.021	26.021	2	29.021	
	29.000	26.000	2	29.000	
Connecting rod bushing inner dia.	26.013	23.013	2	26.013	
	26.007	23.007	2	26.007	
Roughness of connecting rod bushing, inside		0.004			
Permissible offset of connecting rod bearing bore relative to connecting rod bushing bore	0.1	0.13).15	
Permissible deviation from parallel of axes: connecting rod bearing bore to connecting rod bushing bore	0.0	0.06		0.07	
Permissible runout of connecting rod bearing bore		0.01			
Permissible weight difference of the complete connecting rod within one engine		4 g			

¹) Not model year 1981 national version.
²) Only model year 1981 national version.

Data

Tightening torque

Connecting rod nuts

Initial torque

40–50 Nm

Angle of rotation torque

90—100[°]

Conventional tool

Connecting rod testing and straightening device

e.g. Walter Krupp GmbH D–5309 Meckenheim Model CL 6

Note

Connecting rods which were overheated as a result of bearing damage (blue discoloration) may not be re-used.

Connecting rod and connecting rod cap are marked together. The connecting rod shaft should not show any transverse score marks and nicks.

Connecting rods with machined connecting rod bushing are available as a spare part.

Connecting rods and crankshafts with different contact collar diameters may be installed together during repairs.



When renewing connecting rods, pay attention to differences in weight of connecting rods.



Weight compensation Oil hole

2 Oil hole3 Locating grooves

1

Reconditioning

1 Check connecting rod bolts and renew if required (03-310).



2 Check bores for connecting rod bolts.

Place connecting rod bearing cap on one connecting rod bolt. If connecting rod bearing cap moves down by its own weight, renew connecting rod.



3 Mount connecting rod bearing cap and tighten connecting rod nuts to 40–50 Nm.

4 Measure connecting rod bearing basic bores. If basic bore exceeds the specified value or is conical, touch up bearing cap mating surface on a surface plate up to a maximum of 0.02 mm.



5 Press in new connecting rod bushing so that the oil bores are in alignment. Pressing-in pressure at least 2500 N.

6 Machine or ream connecting rod bushing.

7 Touch up lateral connecting rod contact surfaces on a surface plate.

8 Square connecting rod with connecting rod tester.



9 Align connecting rod bore relative to connecting rod bushing bore (parallel alignment).



10 Check offset of connecting rod bearing bore relative to connecting rod bushing bore and correct if necessary.

