

VOLVO BM 646

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- 5 Turbo-compressor, A850000

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Main bearing shells

General: bearing shell location in block

Thickness: standard	2.017-2.024 mm (0.1183-0.1187)
undersize 0.010"	0.004-0.011 mm (0.1594-0.1597)
0.020"	0.10-0.106 mm (0.1212-0.1220)
0.030"	0.006-0.016 mm (0.1302-0.1307)
0.040"	0.406-0.440 mm (0.1598-0.1732)
0.050"	0.045-0.049 mm (0.1417-0.1437)

Big-end bearings

Connecting rod pins

Big-end bearing, rod pin clearance	0.006-0.008 mm (0.0002-0.0003)
Bearing pin length	40.000-40.005 mm (1.5748-1.5752)
General: standard	1.000-1.011 mm (0.0394-0.0397)
undersize 0.010"	0.000-0.008 mm (0.0000-0.0003)
0.020"	0.106-0.108 mm (0.0042-0.0043)
0.030"	0.006-0.010 mm (0.0002-0.0004)
0.040"	0.475-0.478 mm (0.0187-0.0189)
0.050"	0.045-0.049 mm (0.0018-0.0019)

Connecting rod shells

Thickness: standard	46.007-46.008 mm (1.7723-1.7727)
undersize 0.010"	45.993-46.000 mm (1.7706-1.7707)
0.020"	45.978-46.004 mm (1.7706-1.7707)
0.030"	45.975-46.004 mm (1.7706-1.7707)
0.040"	45.927-46.004 mm (1.7706-1.7707)
0.050"	45.947-46.000 mm (1.8000-1.7707)

Connecting rods

Marked 1 to 6 "16007" marking on steel flange forward

Provided with replaceable bearing shells

General: connecting rod bearing bearing pin	46.007-46.008 mm (1.8002-1.8007)
bearing shell bearing pin	75.140-75.152 mm (2.9571-2.9587)
pin/bush pin bearing	See bearing "bushpin pin"
rod clearance: connecting rod - crankshaft	0.10-0.20 mm (0.004-0.008)

Plywheel, fitted

Max. permissible axial force measuring radius 100 mm ± 0"

0.15 mm (0.006")
140 mm

Plywheel casing, fitted

Max. permissible axial force for contact surface against crank casing

0.15 mm (0.006")
Max. 4.25 mm (0.167")

Crankshaft

Size	See
Number of bearings	7
First bearing pin, diameter	46.006-46.016 mm (1.7744-1.7717)
2nd bearing pin, diameter	46.027-46.040 mm (1.8126-1.8130)
3rd bearing pin, diameter	46.025-46.030 mm (1.8086-1.8097)
4th bearing pin, diameter	46.044-46.049 mm (1.8076-1.8087)

Volvo Pv Repair Manual

Jessica J Manson



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