

VOLVO BM 646

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Main bearing shells

General: bearing shell location in block

| | |
|---------------------|--------------------------------|
| Thickness: standard | 2 007-2 008 mm (0 1183-0 1187) |
| undersize 0.010" | 0 004-0 001 mm (0 1299-0 1295) |
| 0.020" | 0 010-0 100 mm (0 1293-0 1289) |
| 0.030" | 0 006-0 010 mm (0 1289-0 1285) |
| 0.040" | 0 000-0 003 mm (0 1283-0 1280) |
| 0.050" | 0 000-0 000 mm (0 1400-0 1400) |

Big-end bearings

Connecting rod pins

| | |
|------------------------------------|----------------------------------|
| Big-end bearing, rod pin clearance | 0.006-0.104 mm (0.0002-0.0041) |
| Bearing pin length | 40.000-40.000 mm (1.5748-1.5732) |
| 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" | 0.000-0.010 mm (0.0000-0.0004) |
| 0.030" | 0.000-0.010 mm (0.0000-0.0004) |
| 0.040" | 0.000-0.010 mm (0.0000-0.0004) |
| 0.050" | 0.000-0.010 mm (0.0000-0.0004) |

Connecting rod shells

| | |
|---------------------|----------------------------------|
| Thickness: standard | 40.007-40.000 mm (1.5743-1.5700) |
| undersize 0.010" | 40.000-40.000 mm (1.5700-1.5700) |
| 0.020" | 40.000-40.000 mm (1.5700-1.5700) |
| 0.030" | 40.000-40.000 mm (1.5700-1.5700) |
| 0.040" | 40.000-40.000 mm (1.5700-1.5700) |
| 0.050" | 40.000-40.000 mm (1.5700-1.5700) |

Connecting rods

Marked 1 to 6 "16047" marking on steel flange forward

Provided with replaceable bearing shells

| | |
|---|----------------------------------|
| General: connecting rod bearing bearing shell | 40.007-40.000 mm (1.5743-1.5700) |
| bearing shell bearing shell | 75.140-75.102 mm (2.9571-2.9567) |
| pin/pin pin bearing | See bearing "bushings" page |
| 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"

| | |
|---------------------|------------------|
| Key gap on flywheel | 0.15 mm (0.006") |
| | 140 mm |

Plywheel casing, fitted

Max. permissible axial force for contact surface against crank casing

| | |
|--|-----------------------|
| Max. permissible axial force for steering bearing against crank casing | 0.15 mm (0.006") |
| | Max. 0.25 mm (0.010") |

Crankshaft

| | |
|-----------------------------|----------------------------------|
| Size | Size |
| Number of bearings | 7 |
| First bearing pin, diameter | 40.000-40.010 mm (1.5748-1.5711) |
| 2nd bearing pin, diameter | 40.021-40.040 mm (1.5736-1.5730) |
| 3rd bearing pin, diameter | 40.025-40.030 mm (1.5736-1.5730) |
| 4th bearing pin, diameter | 40.000-40.000 mm (1.5748-1.5748) |

Volvo Repair Manual S8

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Volvo 850 Service and Repair Manual John S. Mead, 2015 *Cars & Parts*, 1988 *Volvo V 70 & S80* Martyn Randall, 2006 In this book Martyn Randall provides a service and repair manual for the Volvo V70 and Volvo S80 automobile

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