



## Flywheel checks

1. The checks relative to the flywheel are as follows:

- Visual inspection of ring gear conditions.
- Check radial runout (post-assembly check).
- Check face runout (post-assembly check).

If the ring gear is damaged, remove it using a puller.



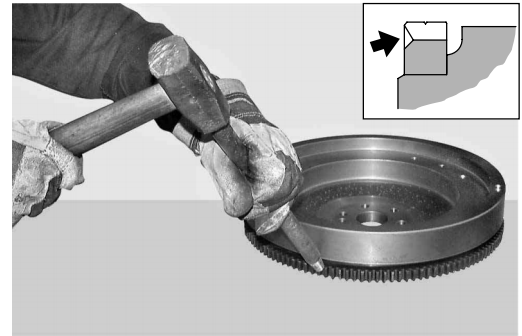
### NOTE

Tap the ring gear **all** the way around until removing it.



### NOTE

Note the direction of assembly of the ring gear; The bevelled side of the teeth must face outwards.



2.

Clean the seat with care, heat the new ring gear on a thermostatic hotplate to approx. 100°C and then fit it to the flywheel, making sure that it is fully seated.



3.

After having fitted the flywheel to the crankshaft and tightened down the retaining bolts, use a dial gauge with magnetic stand to check the radial and face runout.



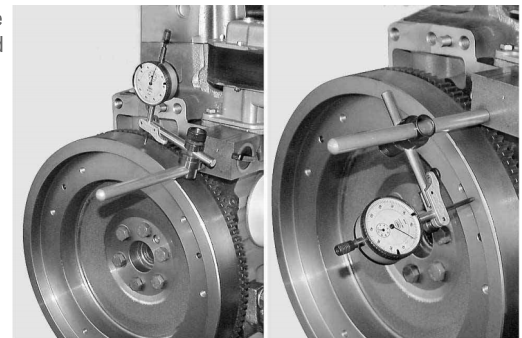
### NOTE

The max. permissible error is 0.10 mm (0.004 in.).



### NOTE

For the tightening torque, see "ENGINE ASSEMBLY".



4.



## Renewal of crankshaft rear oil seal

Remove rear oil seal (2) from crankcase (1) using a punch.



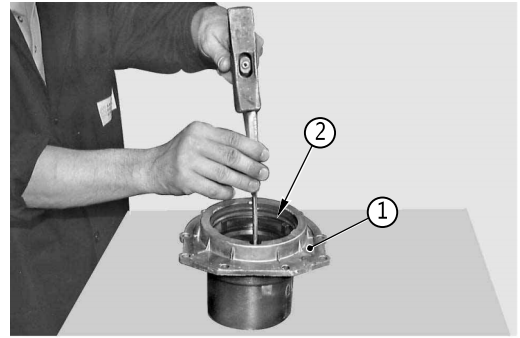
### NOTE

Note which way round the oil seal is installed and note the position.



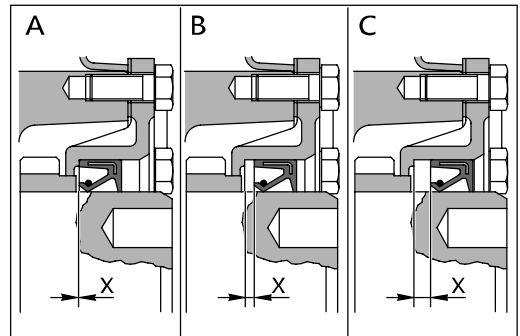
### DANGER

On first fitting, oil seal (2) is fitted fully into the location in the crankcase. At each replacement, oil seal (2) must be installed with displacement towards the exterior of 2.5 mm (0.098 in.).



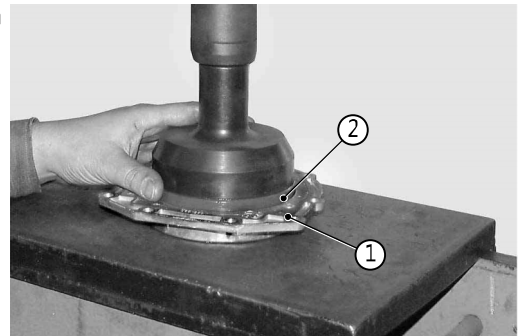
1.

ORIGINAL	1st OVERHAUL	2nd OVERHAUL
A	B	C
X= 0 mm (0 in.)	X= 2.5 mm (0.098 in.)	X= 5 mm (0.197 in.)



2.

Using a press and suitable tool, install new oil seal (2) on crankcase (1) in the position determined by the overhaul.



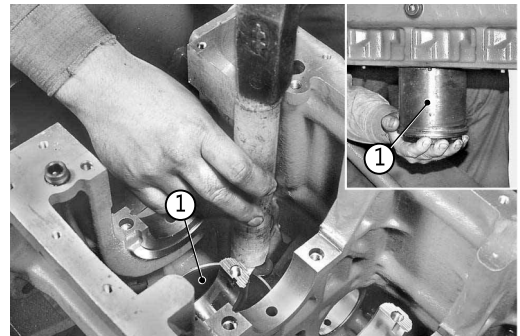
3.



## Pistons and cylinder liners

### Disassembly

Using a plastic drift and mallet, free and remove cylinder liner (1) and pistons and connecting rods at the same time.



1.

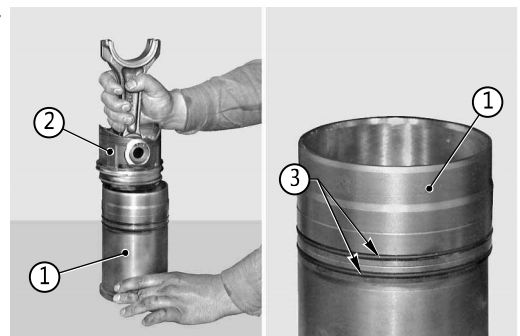
Remove piston-connecting rod assembly (2) from the lower part of cylinder liner (1).

Remove O-rings (3) from cylinder liner (1).



#### NOTE

Renew the O-rings on reassembly.



2.

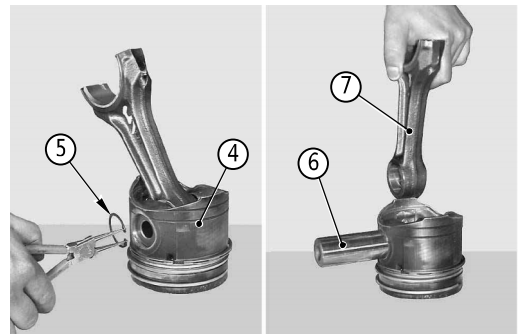
Remove circlip (5) from piston (4).

Withdraw pin (6) and remove connecting rod (7).



#### NOTE

Note the arrow on the piston crown is opposite to the number on the connecting rod.



3.

Using piston ring pliers, remove first and second rings (8) and (9) from piston (4).



#### NOTE

Note that the word TOP is inscribed on the upper face of the piston rings.



4.

Remove wiper ring (10).

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