
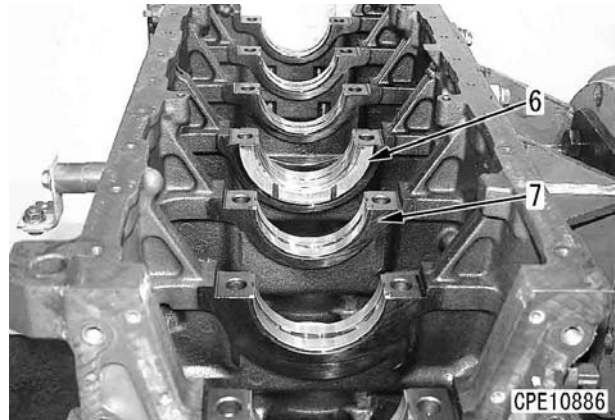
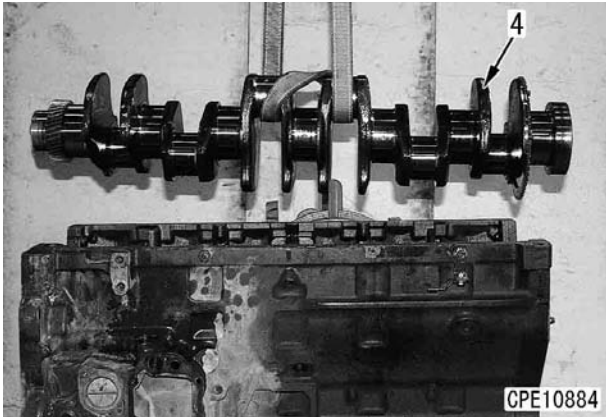


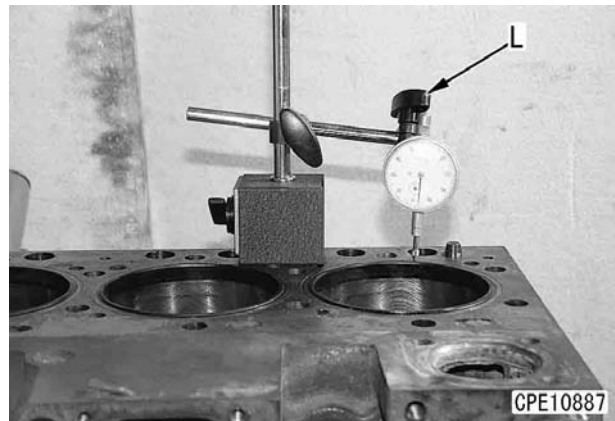
- 5) Using a nylon sling, lift off crankshaft (4).
 - ★ When lifting up the crankshaft, take care not to hit it against the cylinder block.
 - ★ Keep the crankshaft in a safe place so that its sliding portions will not be damaged.

 Crankshaft: **80 kg**

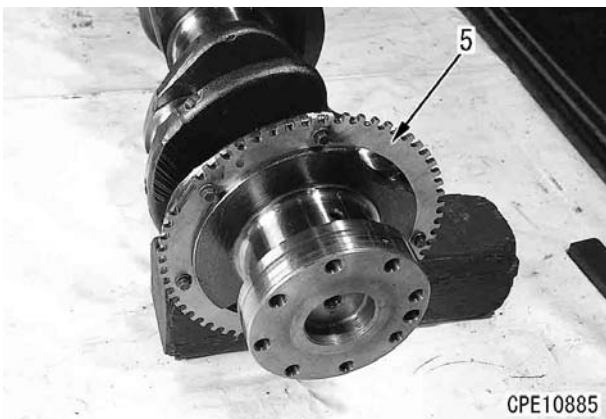


40. Cylinder liner

- ★ Before removing the cylinder liner, measure its projection with tool L.

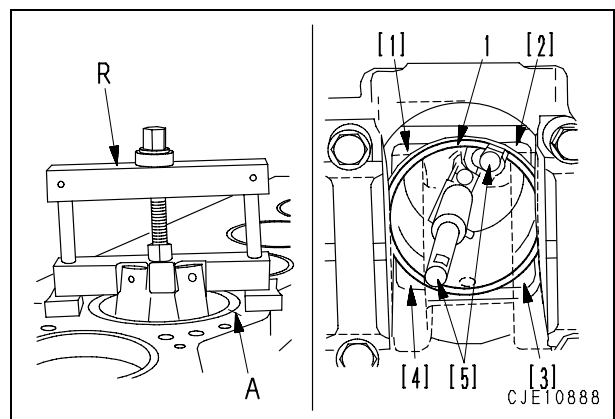


- 6) Remove speed sensor ring (5).

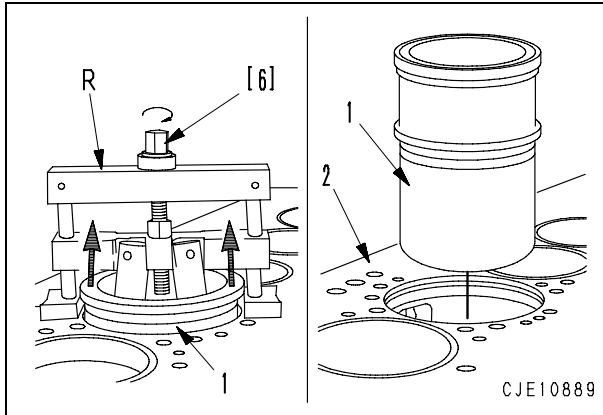


- 7) Remove 1 upper center thrust bearing (6) and 6 upper bearings (7).
 - ★ Make the position marks on the main caps, upper bearings, and upper thrust bearings (in the claws of the bearings), and then keep them by the main caps so that they will not be damaged.

- 1) Make mark (A) of the cylinder liner position and insert tool R from above the cylinder block.
 - ★ Set arms [5] so that they will not touch supports [1], [2], [3], and [4] of cylinder liner (1).
 - ★ Set tool R so that it will be at the center of the top of the cylinder liner.

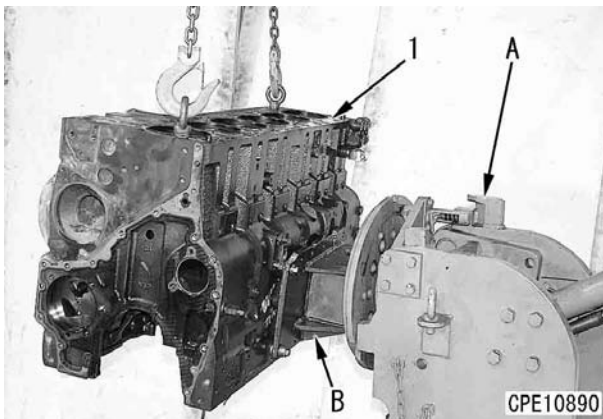


- 2) Turn jack bolt [6] of tool **R** clockwise to pull up cylinder liner (1) from cylinder block (2), and then remove cylinder liner (1) with both hands.
 - ★ Mark the position No. on the removed cylinder liner.



41. Cylinder block

- 1) Remove cylinder block (1) from repair stand **A**.
 - ⏏ Cylinder block: **245 kg**
- 2) Remove tool **B**.



KOMATSU 114E-3 Series Diesel engine

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ENGINE

114E-3 Series

50 Disassembly and assembly

Disassembly and assembly, Part 2

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