



Service Repair Manual

Models

CS-663E and CP-663E
Vibratory Compactor

Product: VIBRATORY COMPACTOR

Model: CP-663E VIBRATORY COMPACTOR ASF

Configuration: CS-663E CP-663E Vibratory Compactor ASF00001-UP (MACHINE) POWERED BY 3056E Engine

Disassembly and Assembly 3056E Engine for Caterpillar Built Machines

Media Number -REN2400-06

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i01757227

Crankshaft - Remove

SMCS - 1202-011

Removal Procedure

Start By:

- a. Remove the fuel injection pump. Refer to Disassembly and Assembly, "Fuel Injection Pump - Remove".
- b. Remove the engine oil pump. Refer to Disassembly and Assembly, "Engine Oil Pump - Remove".
- c. Remove the front housing. Refer to Disassembly and Assembly, "Housing (Front) - Remove".
- d. Remove the flywheel housing. Refer to Disassembly and Assembly, "Flywheel Housing - Remove and Install".
- e. Remove the housing for the crankshaft rear seal. Refer to Disassembly and Assembly, "Crankshaft Rear Seal - Remove".

NOTICE

Keep all parts clean from contaminants.

Contaminants may cause rapid wear and shortened component life.

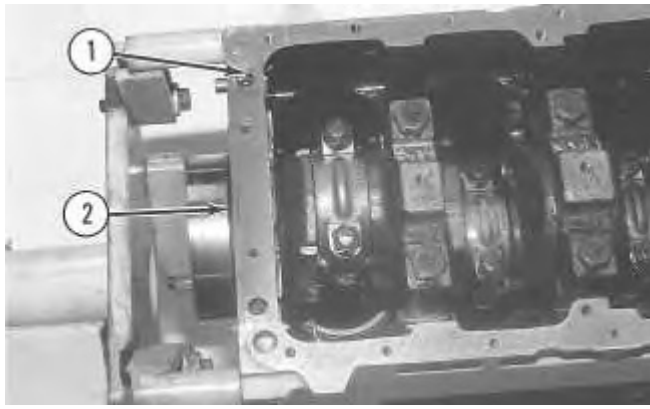


Illustration 1

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1. Remove socket head bolts (1) from the bridge.
2. Remove bridge (2) from the cylinder block.

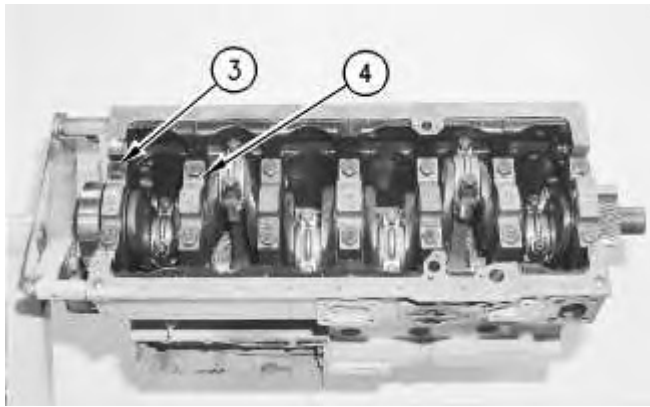


Illustration 2

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Note: Inspect the main bearing caps and the connecting rod caps for the proper identification mark. The identification marks should give the location and the direction of the bearings in the engine.

3. Remove main bearing cap bolts (3).
4. Remove main bearing caps (4) from the cylinder block.
5. Remove the lower main bearings and the lower thrust washers. Keep the lower main bearings with the respective main bearing cap.

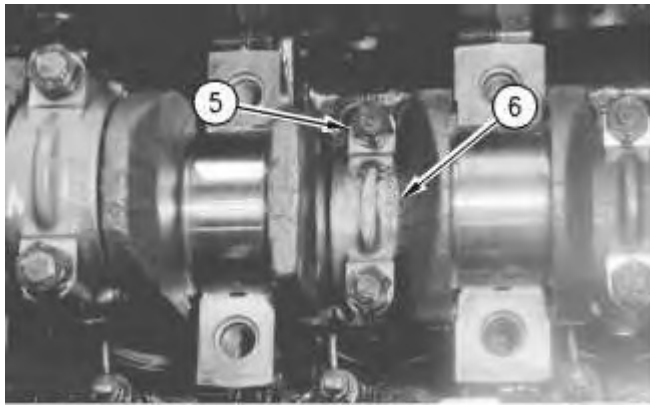


Illustration 3

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Note: The connecting rod caps are held on the connecting rod with bolts that are threaded into the connecting rod.

6. Remove bolts (5) from the connecting rods.
7. Remove connecting rod caps (6) from the connecting rods.
8. Remove the bearings from connecting rod caps (6). Keep the connecting rod bearings with the respective connecting rod cap.

NOTICE

**Do not allow the connecting rods to strike the piston cooling jets.
Damage or misalignment may occur.**

9. Push the piston assemblies into the cylinder bores.

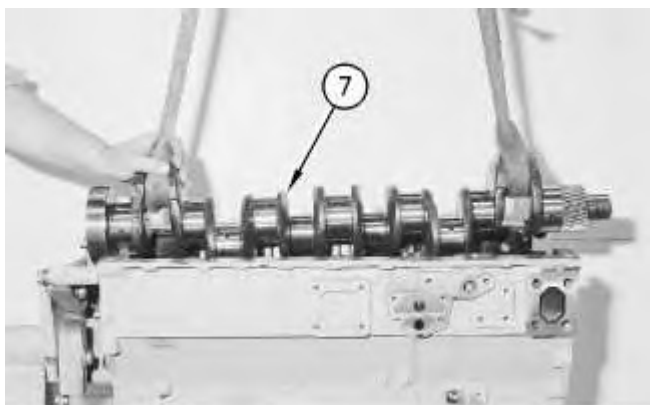


Illustration 4

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10. Attach lifting straps and a suitable lifting device to crankshaft (7).

11. Lift crankshaft (7) out of the cylinder block. The weight of the crankshaft is approximately 39 kg (85 lb). Do not scratch any of the finished surfaces on the crankshaft.

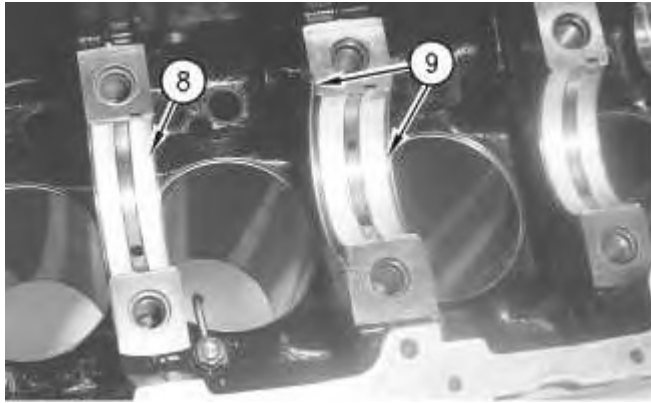


Illustration 5

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12. Remove upper main bearings (8) and upper thrust washers (9).

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