



Service Repair Manual

Models

323D 323D L and 323D LN
Excavator

Product: EXCAVATOR

Model: 323D LN EXCAVATOR CWG

Configuration: 323D, 323D L & 323D LN Excavators CWG00001-UP (MACHINE) POWERED BY C6.4 Engine

Disassembly and Assembly C6.4 Engine for Caterpillar Built Machines

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i02750410

Crankshaft - Remove

SMCS - 1202-011

Removal Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	6V-9120	Socket ⁽¹⁾	1

⁽¹⁾ Tooling (A) is a 46 mm socket.

Start By:

- a. Remove the front housing. Refer to Disassembly and Assembly, "Housing (Front) - Remove".
- b. Remove the crankshaft rear seal. Refer to Disassembly and Assembly, "Crankshaft Rear Seal - Remove".
- c. Remove the flywheel housing. Refer to Disassembly and Assembly, "Flywheel Housing - Remove and Install".
- d. Remove the engine oil pan. Refer to Disassembly and Assembly, "Engine Oil Pan - Remove and Install".

NOTICE

Keep all parts clean from contaminants.

Contaminants may cause rapid wear and shortened component life.

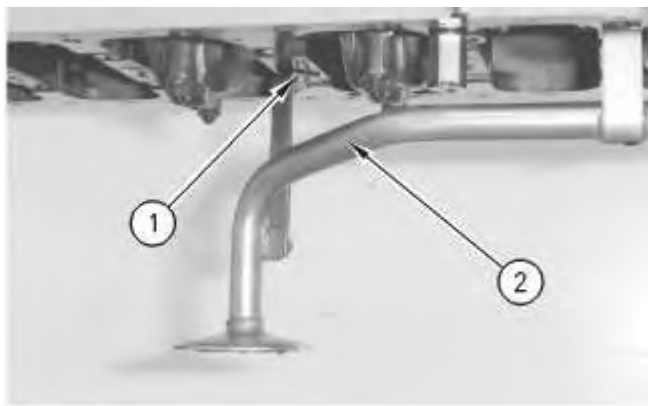


Illustration 1

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1. Remove bolts (1) from oil supply tube (2). Remove oil supply tube (2) and the O-ring seal from the engine cylinder block.

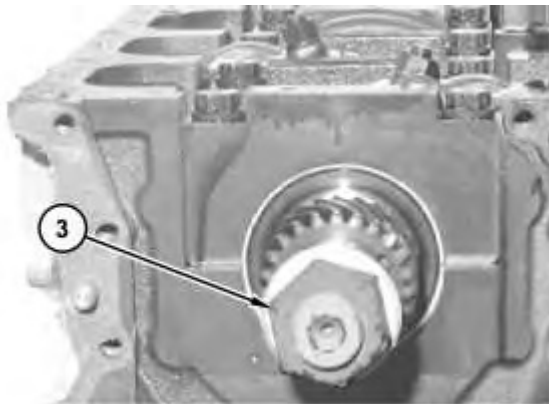


Illustration 2

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2. Install nut (3) and the washer onto the crankshaft. Use Tooling (A) in order to turn the crankshaft.

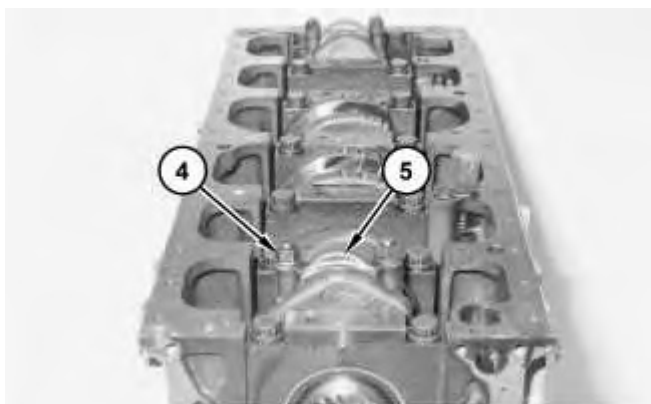


Illustration 3

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3. Remove nuts and bolts (4) that secure connecting rod caps (5) to the connecting rods. Remove connecting rod caps (5) from the connecting rods.

Note: Be careful not to damage the bearings. Mark each connecting rod cap and the bearing in order to ensure installation in the original location.

Note: Apply tape or rubber tubing to the connecting rod bolts.

4. Carefully push the connecting rods and the pistons into the top of the bores.

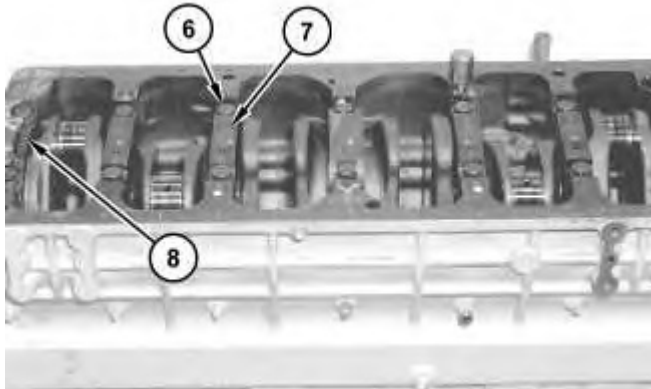


Illustration 4

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5. Remove bolts (6) that secure crankshaft main bearing caps (7) and rear main bearing cap (8) in position in the engine cylinder block. Remove crankshaft main bearing caps (7) and rear main bearing cap (8) from the engine.

Note: Be careful not to damage the bearings. Mark each crankshaft main bearing cap and the bearing in order to ensure installation in the original location.

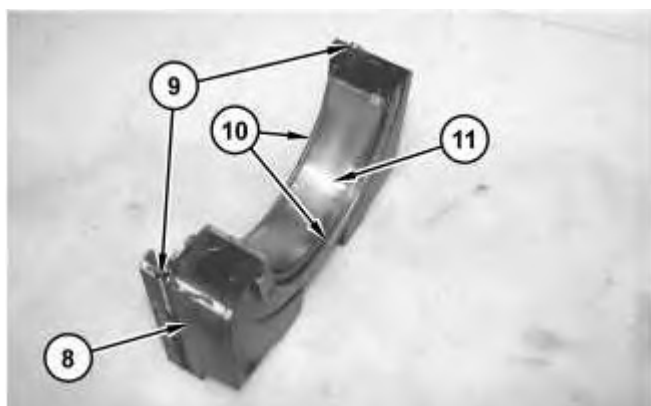


Illustration 5

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This Illustration is of the rear main bearing cap.

6. Remove seals (9), thrust washers (10), and main bearing (11) from rear main bearing cap (8). Remove main bearings (11) from crankshaft main bearing caps (7) (not shown).
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Illustration 6

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Typical Example

7. Attach a suitable lifting device to crankshaft (12). The weight of crankshaft (12) is approximately 100 kg (220 lb). Use the suitable lifting device in order to remove crankshaft (12).

Note: Be careful not to damage the finished surfaces on crankshaft (12).



Illustration 7

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8. Remove the upper halves of crankshaft main bearings (13). Remove thrust washer (14).

Note: Note the orientation of thrust washer (14) for assembly purposes.

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