



Service Repair Manual

Models

320D RR and 320D LRR
Excavator

Product: EXCAVATOR

Model: 320D RR EXCAVATOR GKL

Configuration: 320D RR & 320D LRR Excavators GKL00001-UP (MACHINE) POWERED BY 3066 Engine

Disassembly and Assembly 3064 and 3066 Engines for Caterpillar Built Machines

Media Number -SEN5553-10

Publication Date -01/05/2012

Date Updated -15/05/2012

i01576856

Crankshaft - Remove

SMCS - 1202-011

Removal Procedure

Table 1

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

⁽¹⁾ Tool (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.

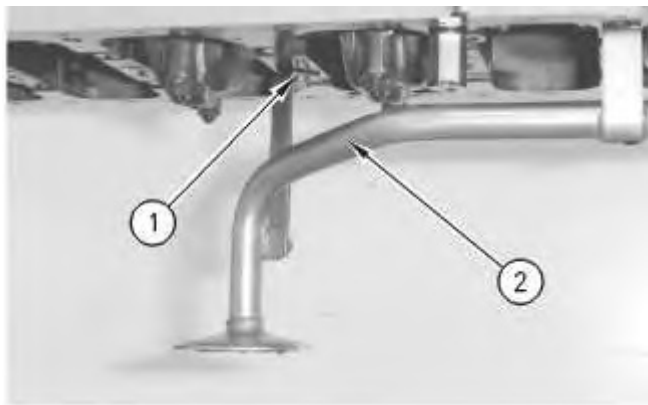


Illustration 1

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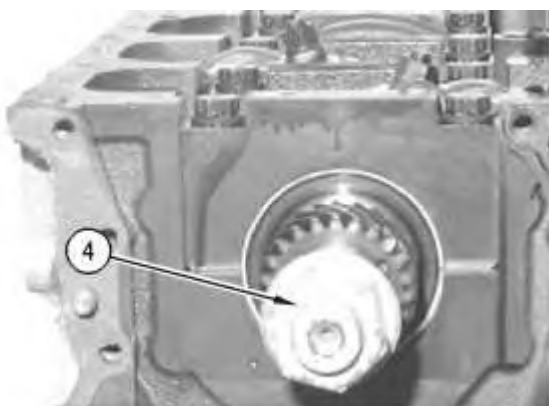
1. Remove two bolts (1) from oil supply tube (2). Remove oil supply tube (2) from the engine cylinder block.



Illustration 2

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2. Check condition of the O-ring seal (3) on the oil supply tube (2). If the O-ring is damaged, use a new part for replacement.



3. Install nut (4) and the washer onto the crankshaft. Use Tool (A) to turn the crankshaft.

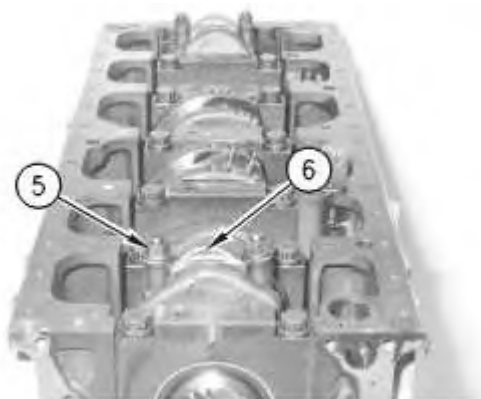


Illustration 4

4. Remove nuts and bolts (5) that secure connecting rod caps (6) to the connecting rods. Remove connecting rod caps (6) 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.

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

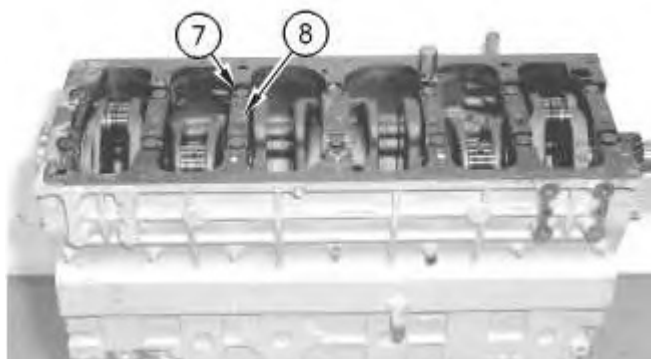


Illustration 5

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

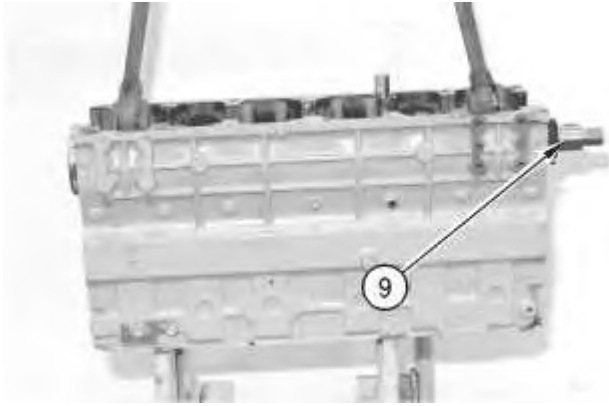


Illustration 6

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7. Fasten a suitable lifting device and straps to crankshaft (9). Remove the crankshaft. The weight of the crankshaft for the 3064 engine is 84 kg (185 lb). The weight of the crankshaft for the 3066 engine is 99 kg (220 lb).

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



Illustration 7

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8. Remove the upper halves of crankshaft main bearings (10). If necessary, remove thrust washers (11) .
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