



Service Repair Manual

Models

330 L, 330 LL 330 FB
FOREST

Product: EXCAVATOR

Model: 330 L EXCAVATOR 8FK

Configuration: 330 L, 330 LL & 330 FB FOREST SWING MACHINES 8FK00001-UP (MACHINE)

Disassembly and Assembly 3304B and 3306B Engines for Caterpillar Built Machines

Media Number -SEN5598-09

Publication Date -01/01/2013

Date Updated -25/01/2013

i01111802

Engine Balancer Shaft - Remove and Install

SMCS - 1220-010-JF

Removal Procedure

Start By:

- A. Remove the front housing cover. Refer to Disassembly and Assembly, "Front Housing Cover - Remove".
- B. Remove the engine oil pump. Refer to Disassembly and Assembly, "Engine Oil Pump - Remove".

NOTICE

Keep all parts clean from contaminants.

Contaminants may cause rapid wear and shortened component life.

NOTICE

Care must be taken to ensure that fluids are contained during performance of inspection, maintenance, testing, adjusting and repair of the product. Be prepared to collect the fluid with suitable containers before opening any compartment or disassembling any component containing fluids.

Refer to Special Publication, NENG2500, "Caterpillar Tools and Shop Products Guide" for tools and supplies suitable to collect and contain fluids on Caterpillar products.

Dispose of all fluids according to local regulations and mandates.

Note: The oil pan plate has been removed for photo purposes only.

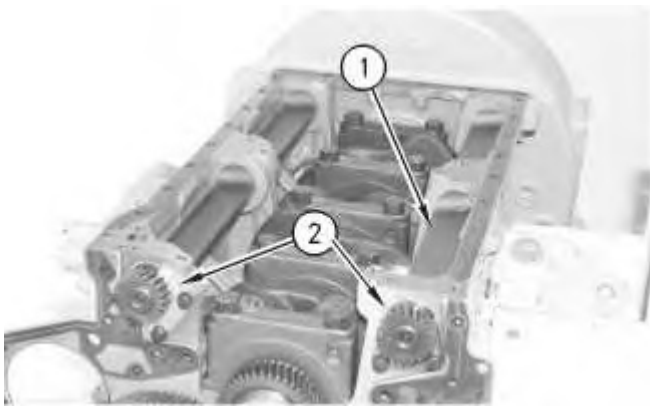


Illustration 1

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1. Remove plates (2) that hold the balancer shaft in the cylinder block.
2. Remove balancer shafts (1) from the cylinder block.

Installation Procedure

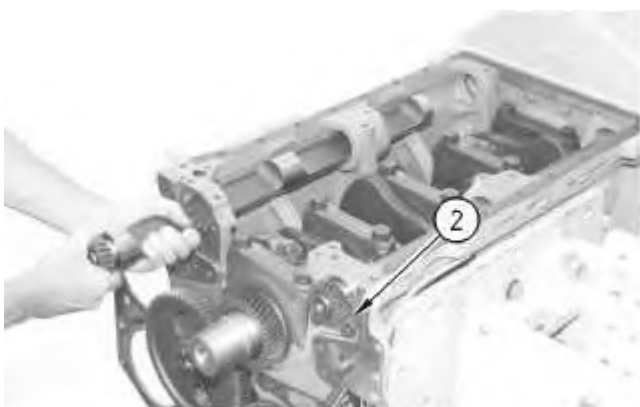


Illustration 2

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NOTICE

Keep all parts clean from contaminants.

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1. Install the balancer shafts in each side of the cylinder block.
 2. Install plates (2) and the bolts that hold the balancer shafts in position in the cylinder block.

Note: Ensure that the balancer shafts are in time before the oil pump is installed.

End By:

- a. Install the engine oil pump. Refer to Disassembly and Assembly, "Engine Oil Pump - Install".
- b. Install the front housing cover. Refer to Disassembly and Assembly, "Front Housing Cover - Install".

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Engine Balancer Shaft Bearings - Remove and Install

SMCS - 1220-010-BD

Removal Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	8S-2241	Camshaft Bearing Tool Group	1
	8H-0684	Ratchet Wrench	1

Start By:

- A. Remove the engine oil pan. Refer to Disassembly and Assembly, "Engine Oil Pan - Remove".
- B. Remove the balancer shaft. Refer to Disassembly and Assembly, "Balancer Shaft - Remove".
- C. Remove the flywheel housing. Refer to Disassembly and Assembly, "Flywheel Housing Remove".

NOTICE

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NOTICE

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