



Service Repair Manual

Models

444F Backhoe Loader

Product: BACKHOE LOADER

Model: 444F BACKHOE LOADER JXR

Configuration: 444F Backhoe Loader Side Shift JXR00001-UP (MACHINE) POWERED BY C4.4 Engine

Disassembly and Assembly

C4.4 Engines for Caterpillar Built Machines

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Crankshaft Front Seal - Remove and Install

SMCS - 1160-010

Removal Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	367-3534	Oil Seal Removal & installer Tool	1

Start By:

- Remove the crankshaft pulley. Refer to Disassembly and Assembly, "Crankshaft Front Pulley- Remove and Install" for the correct procedure.

NOTICE

Keep all parts clean from contaminants.

Contaminants may cause rapid wear and shortened component life.

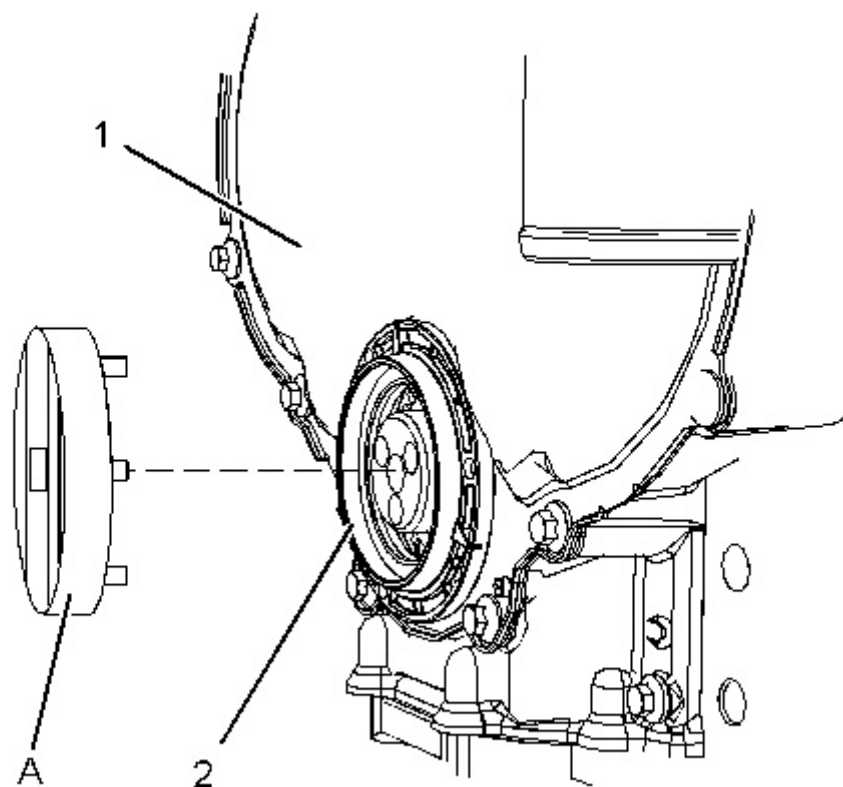


Illustration 1

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1. Align Tooling (A) onto crankshaft front seal (2).
2. Turn Tooling (A) in a counterclockwise direction and remove crankshaft front seal (2) from front cover (1).

Installation Procedure

Table 2

Required Tools			
Tool	Part Number	Part Description	Qty
A	367-3534	Oil Seal Removal & installer Tool	1
B	-	Loctite 5900	-

NOTICE

Keep all parts clean from contaminants.

Contaminants may cause rapid wear and shortened component life.

1. Ensure that the front cover is clean and free from damage.

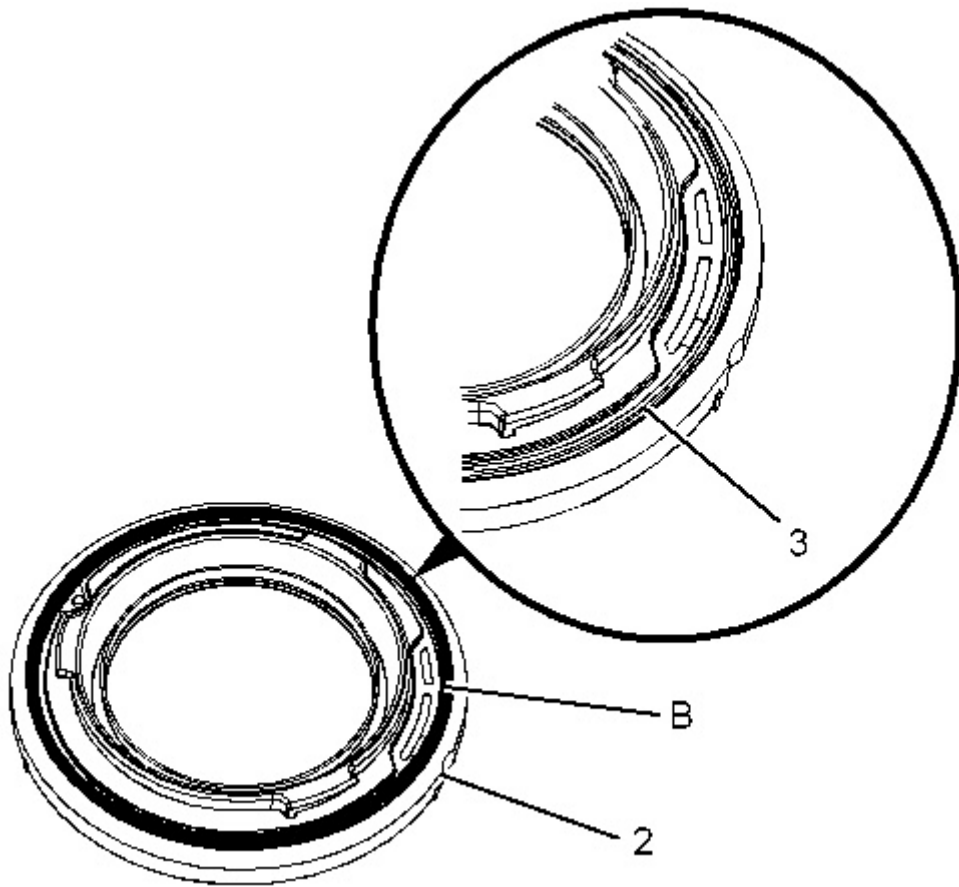


Illustration 2

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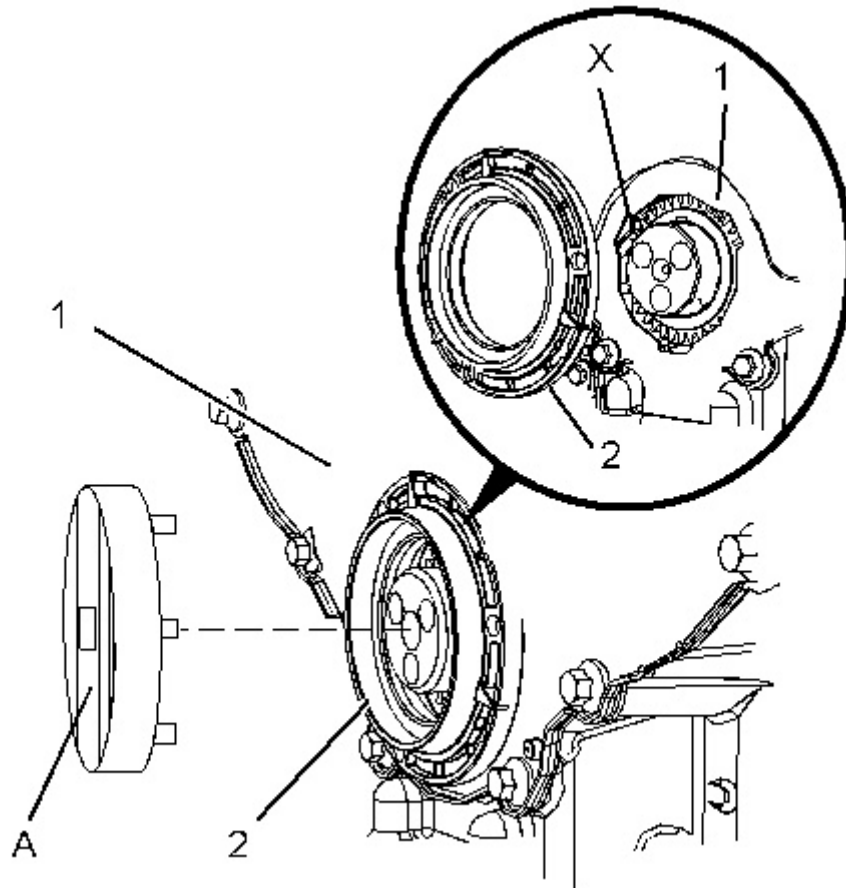


Illustration 3

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2. Apply a continuous bead of Tooling (B), approximately 3 mm (0.118 inch) in diameter, to the top of the static seal beads (3).
3. Correctly position a new crankshaft front seal (2) in Position (X) onto front cover (1).
4. Position Tooling (A) onto crankshaft front seal (2).
5. Use Tooling (A) in order to turn crankshaft front seal (2) in clockwise direction.
6. If it is necessary, to apply a torque greater than 50 N·m (37 lb ft) in order to install crankshaft front seal (2). Remove crankshaft front seal (2). Inspect the crankshaft front seal and the front cover for faults or damage.
7. If necessary repeat Step 2 through Step 6 in order to install crankshaft front seal (2).

End By:

- a. Install the crankshaft pulley. Refer to Disassembly and Assembly, "Crankshaft Front Pulley-Remove and Install" for the correct procedure.

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