



Service Repair Manual

Models

323F L Excavator

Product: EXCAVATOR

Model: 323F L EXCAVATOR YEJ

Configuration: 323F L Excavators YEJ00001-UP (MACHINE) POWERED BY C7.1 Engine

Disassembly and Assembly C7.1 Engines for Caterpillar Built Machines

Media Number -UENR4468-15

Publication Date -01/06/2015

Date Updated -30/10/2018

i06799526

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
B	207-1601	P-80 Rubber Lubricant	1

Start By:

- a. Remove the crankshaft vibration damper and pulley.

NOTICE

Keep all parts clean from contaminants.

Contaminants may cause rapid wear and shortened component life.

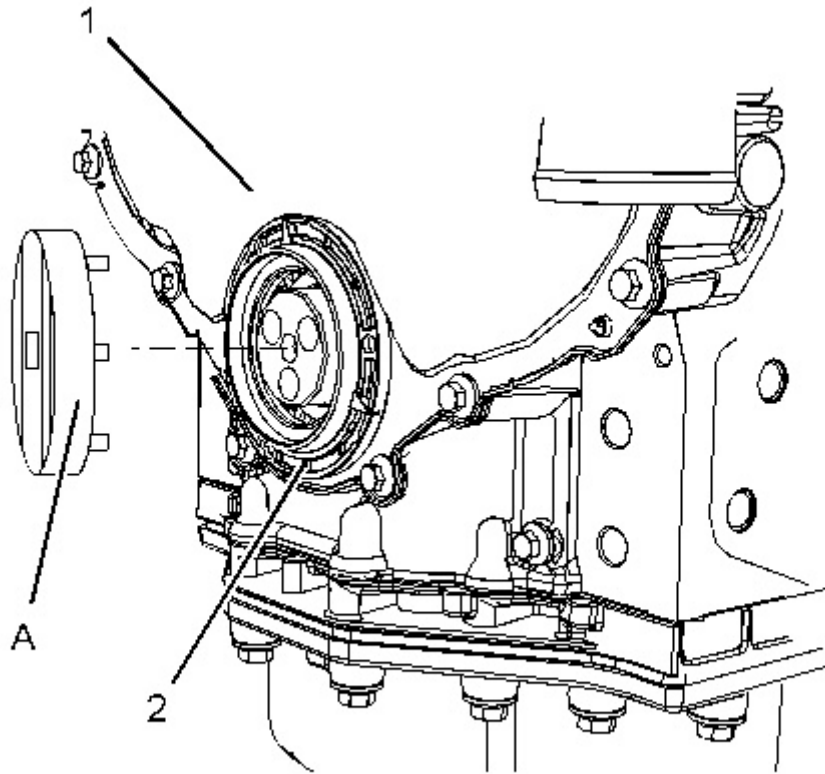


Illustration 1

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1. Position 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

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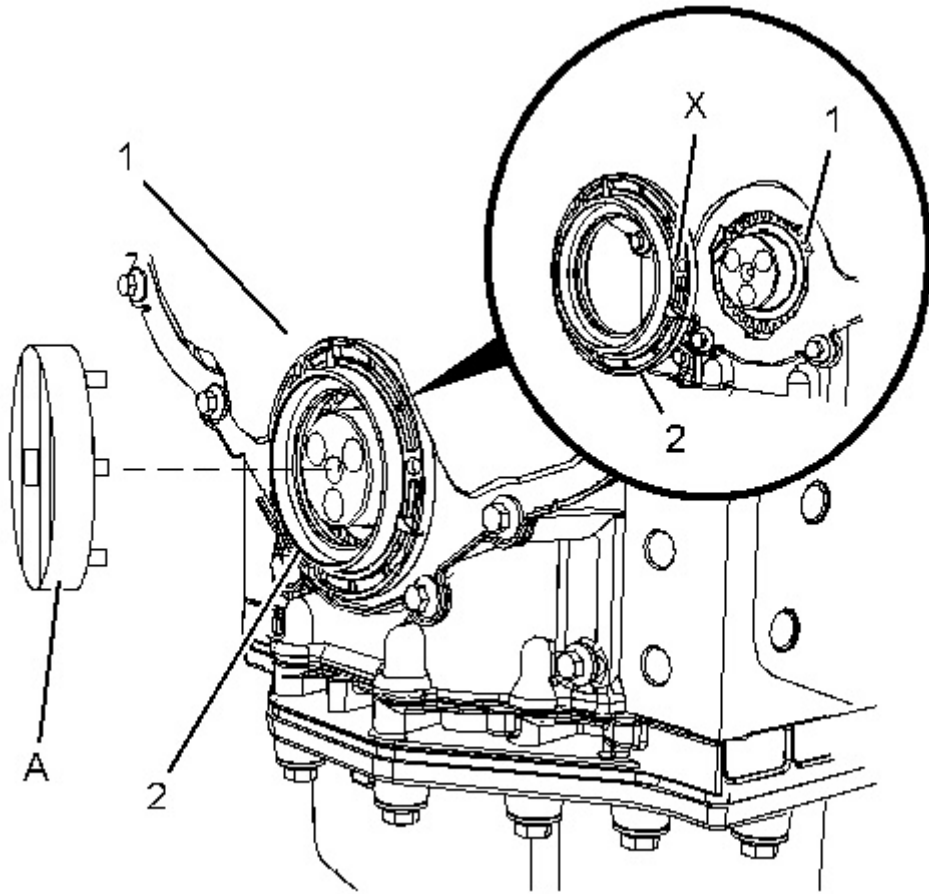


Illustration 2

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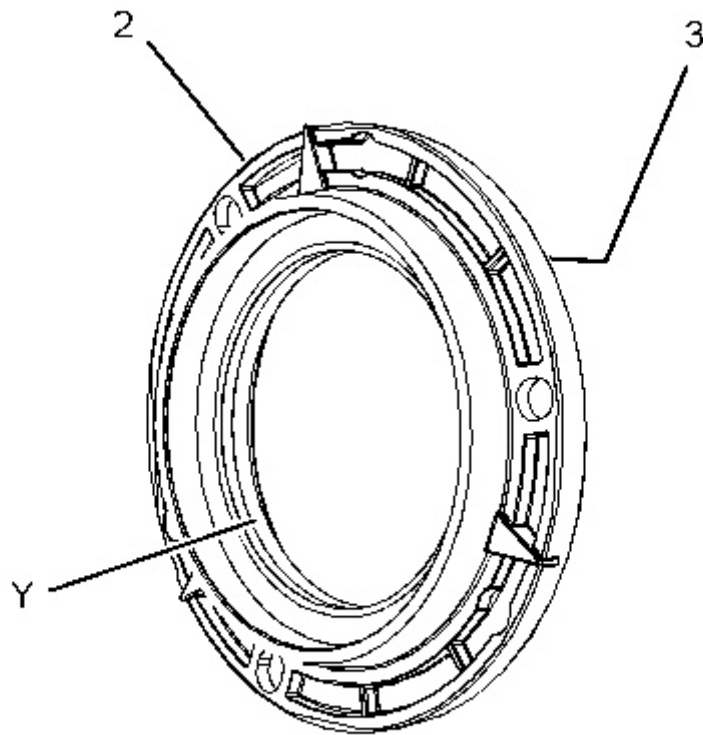


Illustration 3

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2. Apply Tooling (B) to static twin dead seal (3) (not shown) to a new crankshaft front seal (2). Ensure that none of Tooling (B) contaminates the crankshaft front seal in Position (Y).
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) to turn crankshaft front seal (2) in a clockwise direction.
6. If a torque that is greater than 50 N·m (37 lb ft) is necessary to install crankshaft front seal (2), remove crankshaft front seal (2). Inspect crankshaft front seal (2) and front cover (1) for faults or damage.
7. If necessary, repeat Step 2 through Step 6 to install crankshaft front seal (2).

End By:

- a. Install the crankshaft vibration damper and pulley.

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i05018648

Front Cover - Remove and Install - Heavy Duty Front Cover

SMCS - 1166-010

Removal Procedure

Start By:

- a. Remove the crankshaft pulley. Refer to Disassembly and Assembly, "Vibration Damper and Pulley - Remove" for the correct procedure.
 - b. If the engine is equipped with a fan, remove the fan. Refer to Disassembly and Assembly, "Fan - Remove and Install" for the correct procedure.
 - c. Remove the front seal. Refer to Disassembly and Assembly, "Crankshaft Front Seal - Remove and Install" for the correct procedure.
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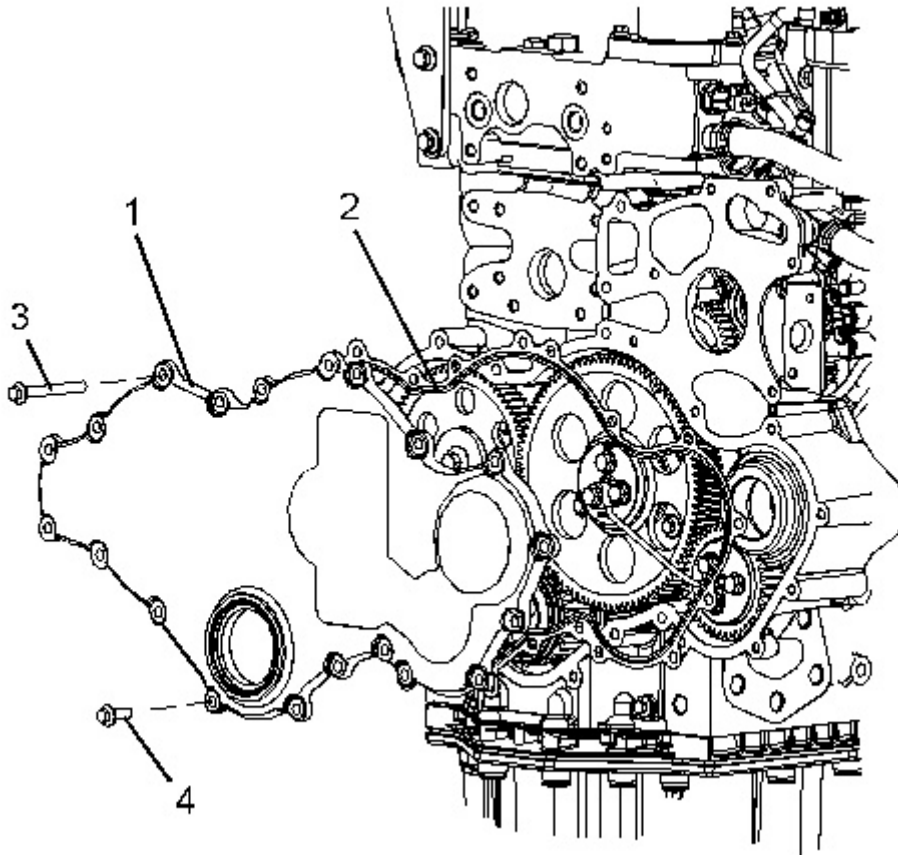


Illustration 1

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1. Remove bolts (3) and bolts (4). Identify the positions of bolts of different length.
2. Remove front cover (1) from the front housing.
3. Remove gasket (2) from front cover (1).

Installation Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	-	Guide Studs M8 by 70 mm	2
B	364-7210	Front Cover Alignment Tool	1

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