



# Service Repair Manual

## **Models**

312C and 312C L Excavator

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Product: EXCAVATOR

Model: 312C L EXCAVATOR CBA

Configuration: 312C & 312C L Excavators CBA01201-UP (MACHINE) POWERED BY 3064 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

i01615317

# Crankshaft Rear Seal - Install

SMCS - 1161-012

## Installation Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	9U-6169	Installer	1
	9U-6171	Locator	1
	9U-6172	Bolt	2
	5P-8247	Hard Washer	1
	6V-3303	Bolt	1

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### NOTICE

**Keep all parts clean from contaminants.**

**Contaminants may cause rapid wear and shortened component life.**

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1. To install a new wear sleeve that is complete with a seal, use **169-5464** Quick Cure Primer to clean the outer diameter of the crankshaft and the inside diameter of the wear sleeve. Apply **4C-9507** Retaining Compound to the faces of all the mating parts.
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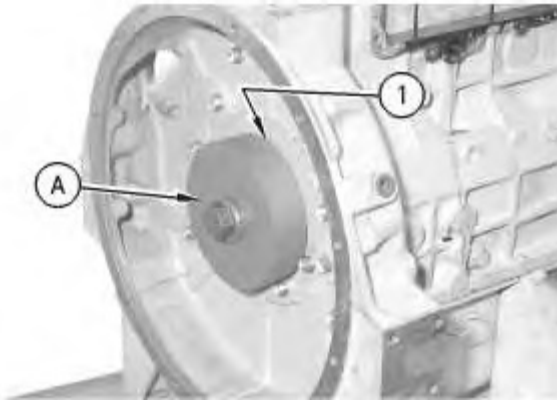


Illustration 1

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2. Install a new wear sleeve that is complete with a seal (1) (not shown) with Tool (A), as follows:

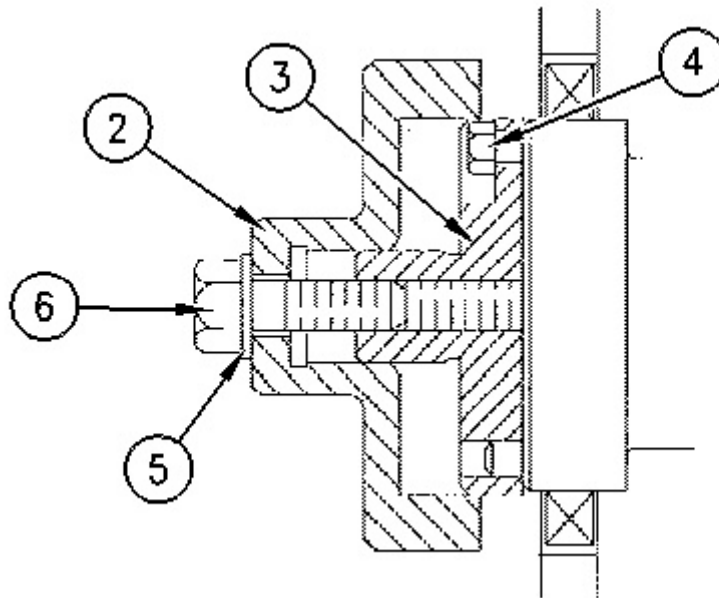
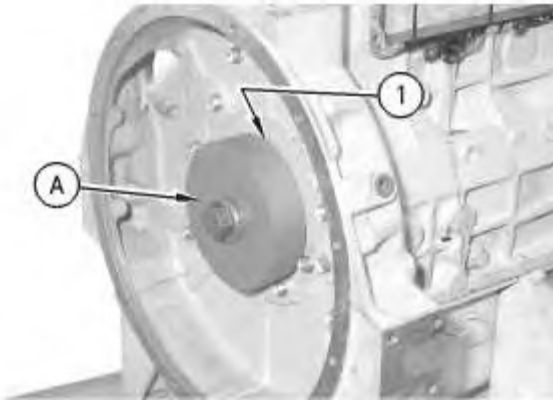


Illustration 2

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- a. Install **9U-6171** Locator (3) onto the crankshaft with **9U-6172** Bolt (4).
- b. Put the new wear sleeve that is complete with a seal in **9U-6169** Installer (2).
- c. Put **6V-3303** Bolt (6) through **5P-8247** Hard Washer (5) and **9U-6169** Installer (2) and thread into **9U-6171** Locator (3).
- d. Push the wear sleeve that is complete with a seal onto the crankshaft until **9U-6169** Installer (2) bottoms out.



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Illustration 3

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- e. Remove Tool (A) and check crankshaft rear seal (1) (not shown) for correct installation.

**End By:**

- a. Install the flywheel. Refer to Disassembly and Assembly, "Flywheel - Install".

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# Flywheel Housing - Remove and Install

SMCS - 1157-010

## Removal Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	138-7575	Link Bracket	1
B	1P-0510	Driver Group	1

### Start By:

- A. Remove the electric starting motor.
- B. Remove the flywheel and ring gear.

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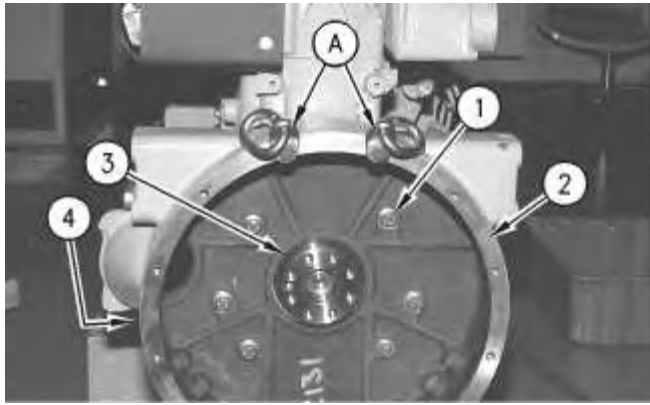


Illustration 1

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1. Install Tooling (A) , a strap, and a suitable lifting device onto flywheel housing (2) .
2. Remove bolts (1) and the washers that secure flywheel housing (2) to the cylinder block.  
**Note:** Identify the four shorter bolts for later installation into the flywheel housing.
3. Remove flywheel housing (2) . The weight of the flywheel is approximately .29 kg (65 lb).
4. Check oil seal (3) for serviceability. If necessary, replace the oil seal and crankshaft wear sleeve.

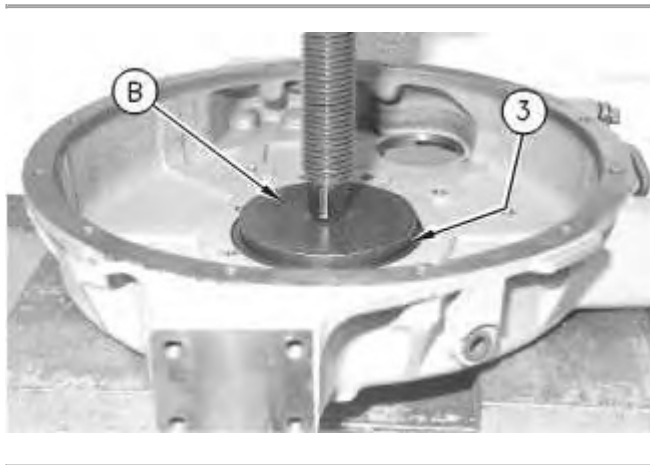


Illustration 2

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5. Use Tooling (B) in order to remove the oil seal (3) (not shown).

## Installation Procedure

Table 2

Required Tools			
Tool	Part Number	Part Description	Qty
A	138-7575	Link Bracket	1

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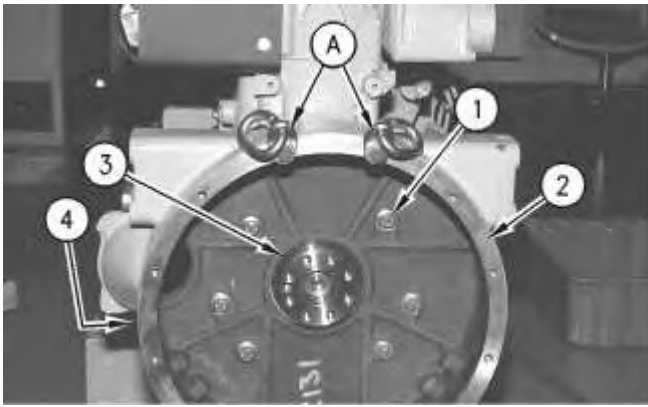


Illustration 3

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1. Clean old gasket material (4) from the mating surfaces of the cylinder block and the flywheel housing. Install a new gasket on the cylinder block.
2. Place flywheel housing (2) in position on the cylinder block.
3. Install the washers and bolts (1) in order to secure flywheel housing (2) to the cylinder block.
4. Use Tooling (B) in order to install the oil seal (3) , and the crankshaft wear sleeve (not shown).

**End By:**

- a. Install the flywheel.
- b. Install the electric starting motor.

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