

Product: EXCAVATOR

Model: 312C EXCAVATOR BWH

Configuration: 312C & 312C L Excavators BWH00001-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

i01567260

Flywheel - Install

SMCS - 1156-012

Installation Procedure

Table 1

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

NOTICE

Keep all parts clean from contaminants.

Contaminants may cause rapid wear and shortened component life.



Always wear protective gloves when handling parts that have been heated.

1. Perform the following procedure, if the ring gear was removed from the flywheel:
 - a. Heat the ring gear to 150 °C (302 °F) in an oven.

- b. Press the ring gear onto the flywheel.

Note: Prior to the installation of the flywheel, refer to Specifications, "Flywheel" for information on checking the flywheel assembly for flatness.

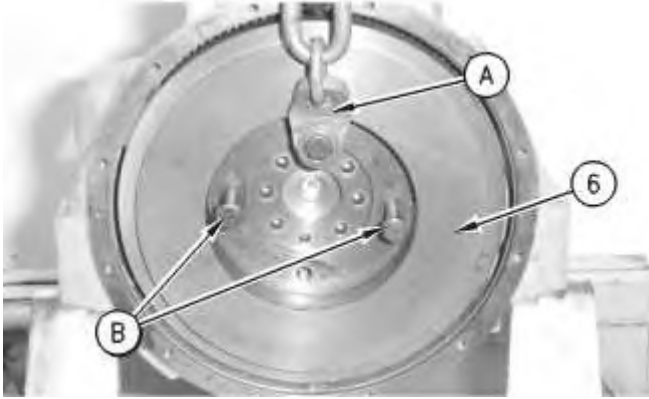


Illustration 1

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2. Install Tool (A), a strap, and a suitable lifting device onto flywheel (6) .
3. Install flywheel (6). The weight of the flywheel is 50 kg (110 lb).

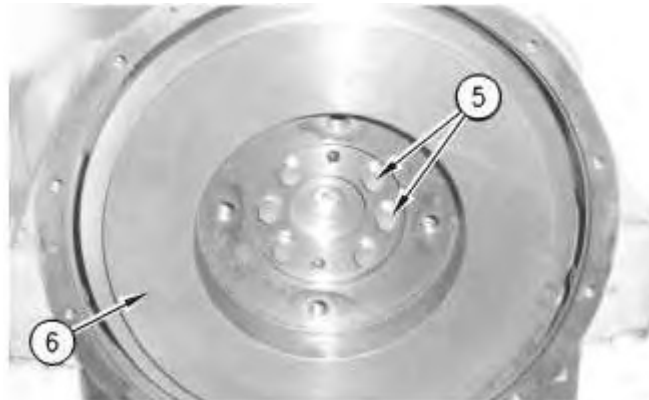


Illustration 2

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4. Install six bolts (5) in order to secure flywheel (6) onto the crankshaft. Tighten the bolts to a torque of $83 \pm 5 \text{ N}\cdot\text{m}$ ($61 \pm 4 \text{ lb ft}$).
 5. Remove Tool (A) from the flywheel.
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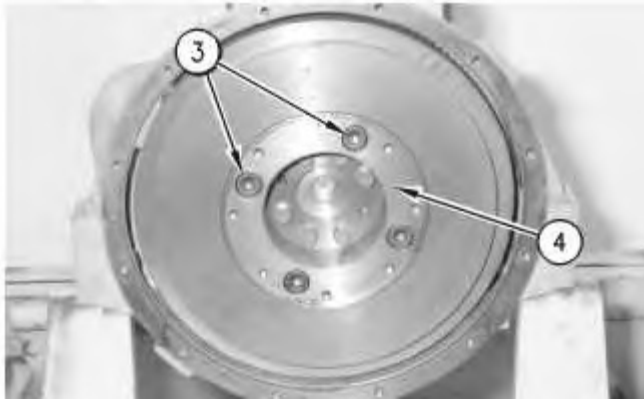


Illustration 3

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6. Place the inner ring (4) in position on the flywheel.
7. Install four socket head bolts (3) in order to secure the inner ring (4) to the flywheel.



Illustration 4

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8. Place the adapter (2) in position on the flywheel housing.
 9. Install twelve bolts and washers (1) in order to secure the adapter (2) on the flywheel housing.
 10. Check the flywheel runout. Refer to Testing and Adjusting, "Flywheel Housing - Inspect" for more information on flywheel runout.
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i01135944

Crankshaft Rear Seal - Remove

SMCS - 1161-011

Removal Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	1U-7600	Slide Hammer Puller	1
B	5P-7312	Seal Distorter	1
	5P-7338	Distorter Ring	2

Start By:

- Remove the flywheel. Refer to Disassembly and Assembly, "Flywheel - 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, "Dealer Service Tool Catalog" for tools and supplies suitable to collect and contain fluids on Cat products.

Dispose of all fluids according to local regulations and mandates.

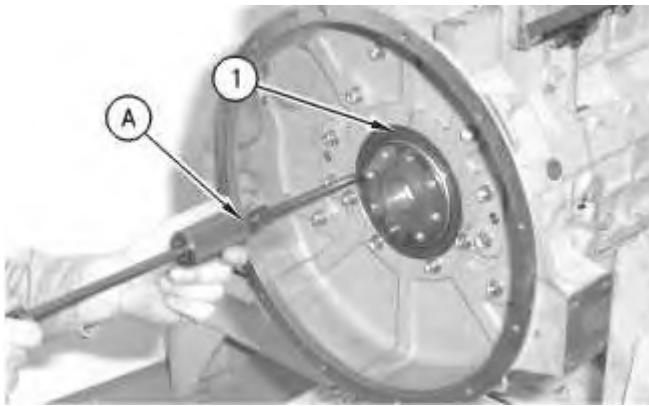


Illustration 1

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Note: If the oil seal shows a sign of oil leaks, remove the wear sleeve and the oil seal.

1. Drill three evenly spaced 3 mm (0.12 inch) holes in crankshaft rear seal (1).
2. Use Tool (A) to remove the crankshaft rear seal.

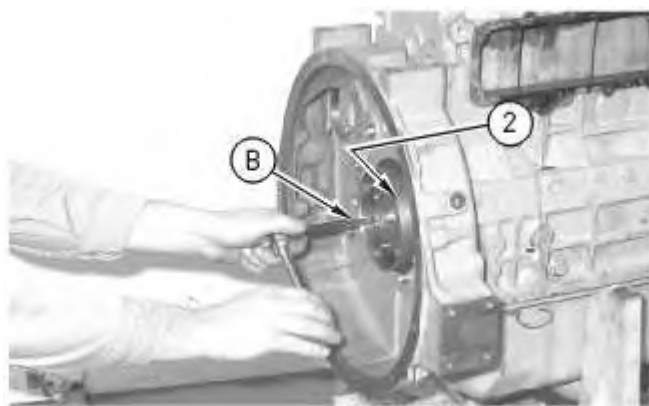


Illustration 2

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3. Use Tool (B) to remove the wear sleeve (2) (not shown) from the rear of the crankshaft.

Note: When you are removing the wear sleeve, take extreme care not to damage the crankshaft.

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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

NOTICE

Keep all parts clean from contaminants.

Contaminants may cause rapid wear and shortened component life.

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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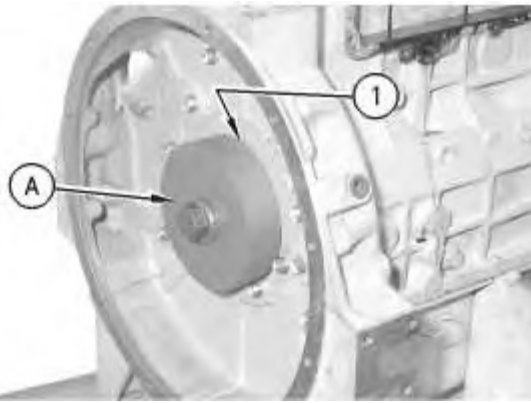


Illustration 1

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

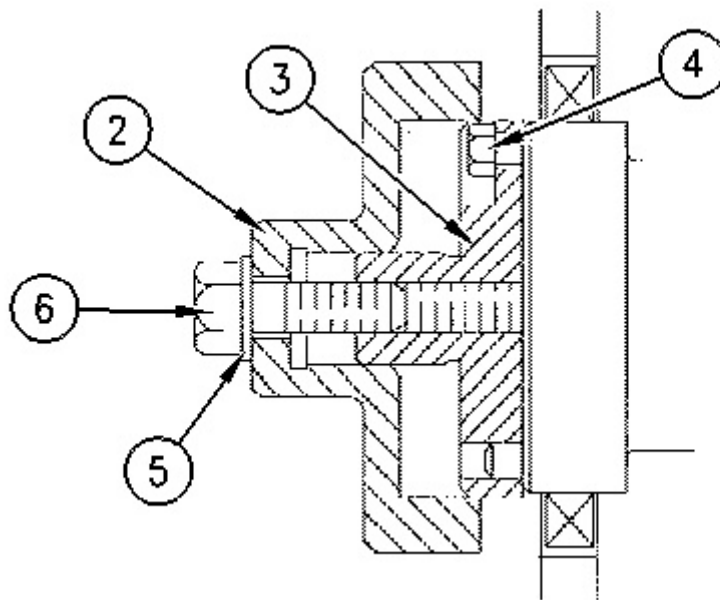


Illustration 2

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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.

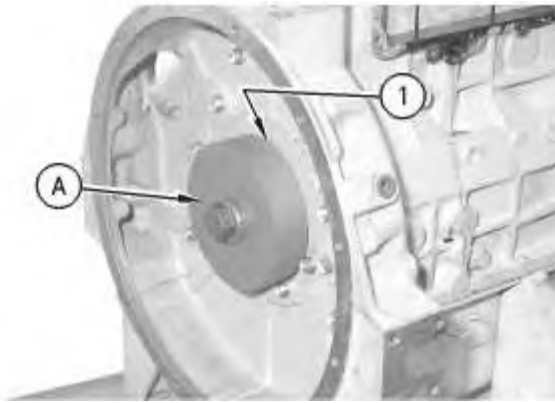


Illustration 3

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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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