



# Service Repair Manual

## **Models**

**315B and 315B L EXCAVATOR**

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Product: EXCAVATOR

Model: 315B L EXCAVATOR 3AW

Configuration: 315B & 315B L TRACK-TYPE EXCAVATORS 3AW00001-UP (MACHINE) POWERED BY 3046 ENGINE

## Disassembly and Assembly 3046 Engine For Caterpillar Built Machines

Media Number -SEN6458-05

Publication Date -01/04/2004

Date Updated -22/04/2004

i01646268

### Flywheel - Remove

SMCS - 1156-011

### Removal Procedure

Table 1

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

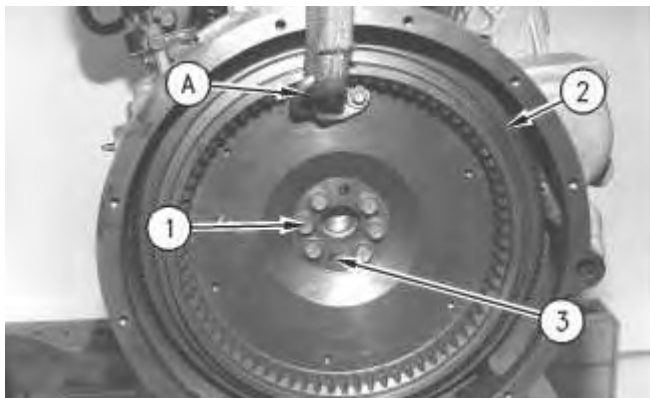
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#### NOTICE

**Keep all parts clean from contaminants.**

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

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1. Install Tool (A), a strap, and a suitable lifting device onto flywheel (2) .
2. Remove six bolts (1) that secure flywheel (2) from the crankshaft.
3. Remove flywheel (2). The weight of the flywheel is 50 kg (110 lb).

**Note:** Dowel pin hole (3) is slightly offset in order to ensure correct installation.

4. Check the condition of the dowels (not shown). If the dowels are damaged, use new parts for replacement.



Illustration 2

5. Check the condition of the ring gear (4). Replace the ring gear with a new part if the gear is worn or damaged.
6. Place flywheel (2) and ring gear (4) on a suitable support.

**Note:** Identify the orientation of the ring gear on the flywheel for the correct positioning when the new ring gear is installed.

7. Use a hammer and a punch in order to remove ring gear (4) from the flywheel.

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## Disassembly and Assembly 3046 Engine For Caterpillar Built Machines

Media Number -SEN6458-05

Publication Date -01/04/2004

Date Updated -22/04/2004

i01646270

## Flywheel - Install

SMCS - 1156-012

## Installation Procedure

Table 1

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

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### NOTICE

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

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**WARNING**

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

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1. Use an oven and heat ring gear (2) to a maximum temperature of 150 °C (302 °F). Install the ring gear.



Illustration 1

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2. Position the ring gear (4) on flywheel (2) .

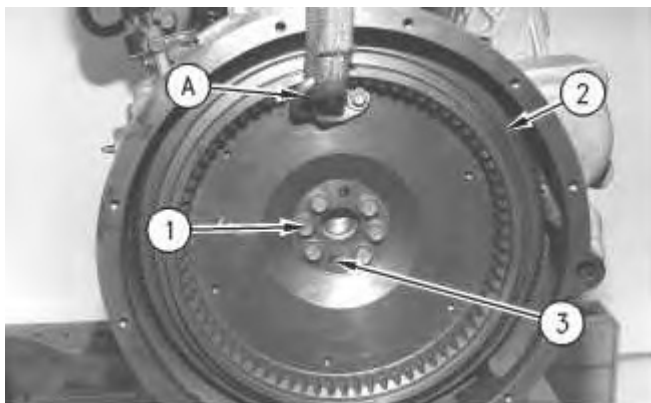


Illustration 2

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3. Check the condition of the dowels (not shown). If the dowels are damaged, use new parts for replacement.
4. Install Tool (A), a strap, and a suitable lifting device onto flywheel (2) .
5. Install flywheel (2). The weight of the flywheel is 50 kg (110 lb).  
**Note:** Dowel pin hole (3) is slightly offset in order to ensure correct installation.
6. Install six bolts (1) in order to secure flywheel (2) onto the crankshaft. Tighten the bolts to a torque of  $83 \pm 5 \text{ N}\cdot\text{m}$  ( $61 \pm 4 \text{ lb ft}$ ).
7. Remove Tool (A) .
8. Check the flywheel runout. Refer to Testing and Adjusting, "Flywheel - Inspect" for more information on flywheel runout.

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