



Service Repair Manual

Models

416D Backhoe Loader

Product: BACKHOE LOADER

Model: 416D BACKHOE LOADER B2D

Configuration: 416D Backhoe Loader B2D00001-UP (MACHINE) POWERED BY 3054C Engine

Disassembly and Assembly 3054C Engines for Caterpillar Built Machines

Media Number -SEN5069-18

Publication Date -01/05/2015

Date Updated -19/09/2018

i07030444

Flywheel - Install

SMCS - 1156-012

Installation Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	-	Guide Bolt (1/2 inch - 20 NF by 4 inch)	2
B	138-7575	Link Bracket	1

NOTICE

Keep all parts clean from contaminants.

Contaminants may cause rapid wear and shortened component life.

1. Thoroughly clean the flywheel housing. Inspect the crankshaft rear seal for leaks. If there are any oil leaks, refer to this Disassembly and Assembly Manual, "Crankshaft Rear Seal - Remove" for the correct procedure.
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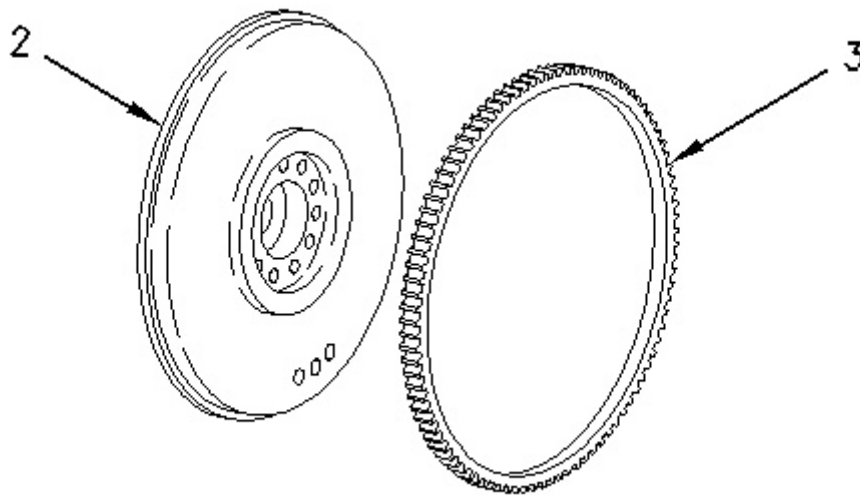


Illustration 1

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 **WARNING**

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

Note: If ring gear (3) has been removed from flywheel (2). Identify the orientation of ring gear (3) on the flywheel for the correct positioning when the new ring gear is installed.

2. Heat the ring gear to 250 °C (480 °F) in an oven to install the ring gear onto the flywheel. Ensure that the orientation of the ring gear is correct and quickly install the ring gear onto the flywheel.

Note: Do not use a torch to heat the ring gear.

3. Clean flywheel (2) and ring gear (3) when the ring gear has cooled.
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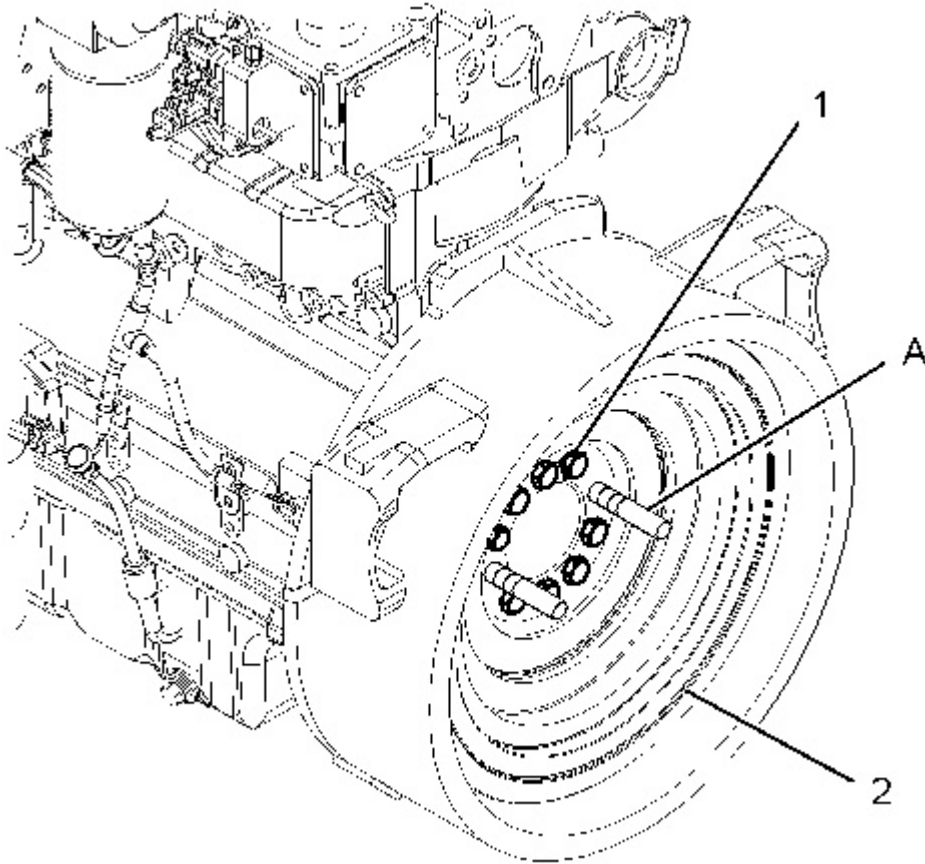


Illustration 2

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4. Install the Tooling (A) on the crankshaft. Install the Tooling (B) and a suitable lifting device on flywheel (2) and position the flywheel in the flywheel housing. The weight of the flywheel is approximately 54 kg (119 lb).
5. Install bolts (1) to flywheel (2).
6. Remove Tooling (A). Install the remaining bolts (1) that secure flywheel (2) to the crankshaft. Tighten the bolts (1) to a torque of 140 N·m (103 lb ft).
7. Check the alignment of flywheel (2) with the crankshaft. Refer to Testing and Adjusting, "Flywheel - Inspect" for the correct procedure.

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Crankshaft Rear Seal - Remove

SMCS - 1161-011

Removal Procedure

Start By:

- a. 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.

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