



# Service Repair Manual

## **Models**

# 436C BACKHOE LOADER

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Product: BACKHOE LOADER

Model: 436C BACKHOE LOADER 1RR

Configuration: 436C Backhoe Loader Center Pivot, Parallel Lift 1RR00001-00997 (MACHINE) POWERED BY 3054 Engine

## Disassembly and Assembly 3054 Engine for Caterpillar Built Machines

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i03140046

# Camshaft Gear - Remove and Install

SMCS - 1210-010-GE

## Removal Procedure

Table 1

Required Tools			
Tool	Part Number	Part Name	Qty
A	1U-6671	Puller Gp	1
	8S-4712	Bolt	2
	1P-0510	Driver Group	1

### Start By:

- a. Remove the fan. Refer to Disassembly and Assembly, "Fan - Remove and Install".
  - b. Remove the front cover. Refer to Disassembly and Assembly, "Front Cover - Remove".
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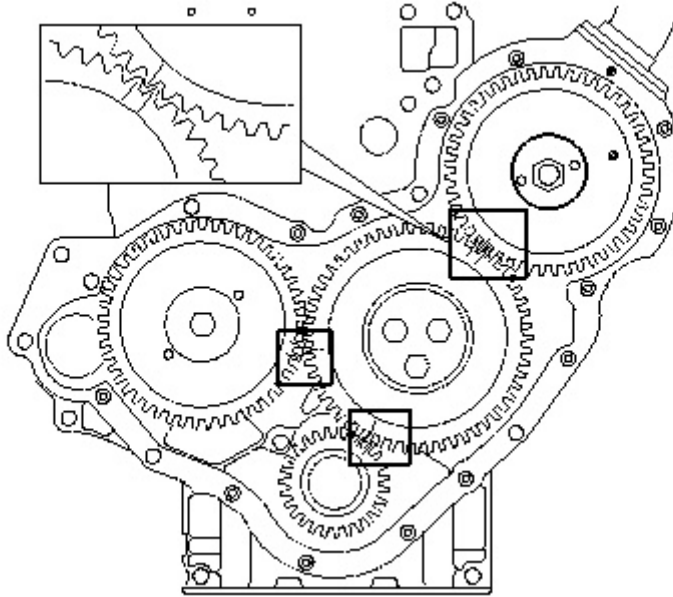


Illustration 1

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1. Rotate the crankshaft until the timing marks on the crankshaft gear, the camshaft gear, and the fuel injection pump gear are aligned, as shown.

**Note:** The timing marks on the idler gear may not be aligned. This is caused by the difference in the speed of the rotation of the idler gear.

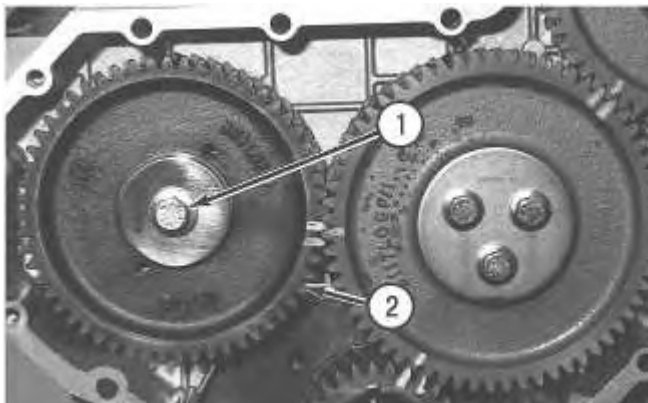


Illustration 2

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2. Remove bolt (1) and the washer from the camshaft gear (2).

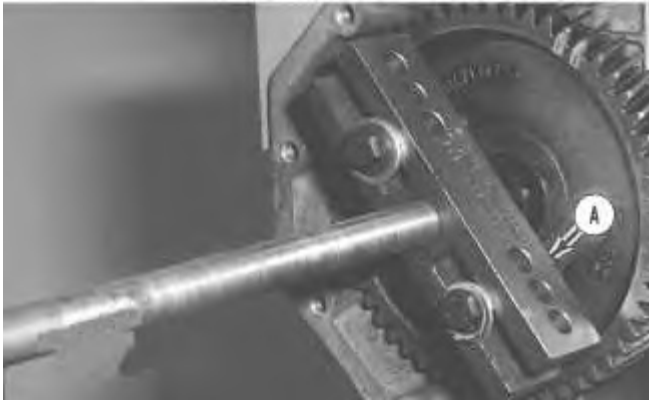


Illustration 3

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3. Install Tooling (A) and remove camshaft gear.

**Note:** Do not lose the key from the camshaft gear.

4. Inspect the camshaft gear for wear and damage. Replace the gear, if necessary.

## Installation Procedure

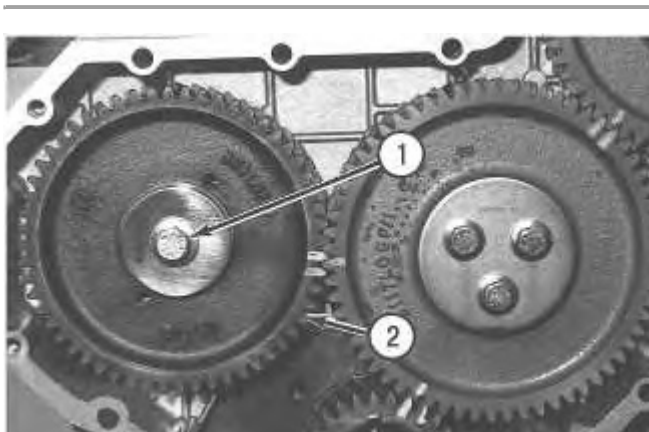


Illustration 4

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1. Install camshaft gear (2) in the front housing.

**Note:** When you install the camshaft gear, ensure that the teeth that have the timing marks are facing toward the front. Also, ensure that the key is aligned properly in the keyway. If necessary, tap the gear with a soft hammer in order to seat the key in the keyway.

2. If necessary, remove the idler gear in order to align the gear teeth correctly.
3. Install the washer and bolt (1) on the camshaft gear. Tighten bolt (1) to a torque of 95 N·m (70 lb ft).

**Note:** Ensure that the timing marks on the camshaft gear, the crankshaft gear, and the fuel injection pump gear are aligned.

4. If a new camshaft gear is used, check the backlash of the camshaft gear. The minimum backlash for a new gear is 0.08 mm (0.003 inch).

**End By:**

- a. Install the front cover. Refer to Disassembly and Assembly, "Front Cover - Install".
- b. Install the fan. Refer to Disassembly and Assembly, "Fan - Remove and Install".

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