



Service Repair Manual

Models

416B Backhoe Loader

Product: BACKHOE LOADER

Model: 416B BACKHOE LOADER 8ZK

Configuration: 416B Backhoe Loader 8ZK06000-11031 (MACHINE) POWERED BY 3054 Engine

Disassembly and Assembly 3054 Engine for Caterpillar Built Machines

Media Number -SEN6241-13

Publication Date -01/08/2008

Date Updated -04/08/2008

i02253357

Gear Group (Front) - Remove

SMCS - 1206-011

Removal Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	8S-2264	Puller Group	1
B	173-9774	Wrench Bit	1

Start By:

- A. Remove the front cover. Refer to Disassembly and Assembly, "Front Cover - Remove".

NOTICE

Keep all parts clean from contaminants.

Contaminants may cause rapid wear and shortened component life.

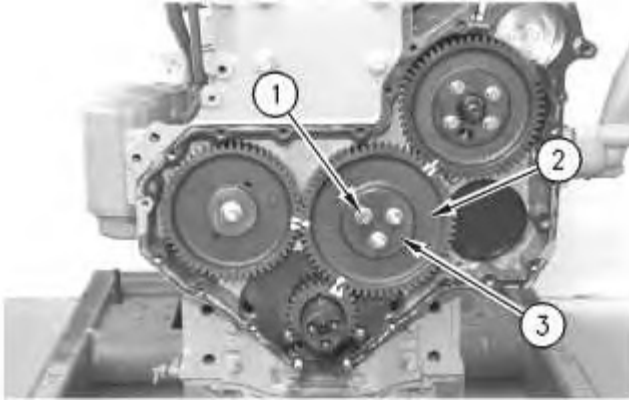


Illustration 1

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Note: It may be necessary to pin the fuel pump in order to maintain the correct timing. Refer to Disassembly and Assembly, "Fuel Injection Pump - Remove" for the correct procedure.

1. Align the timing marks on the crankshaft gear, the camshaft gear, and the idler gear, as shown.
2. Remove bolts (1) from idler gear (2) .
3. Remove idler gear (2) and retainer plate (3) .



Illustration 2

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4. Remove bushing (4) from idler gear (2) , if necessary.
 5. Remove the bushing with a suitable puller. If the bushing cannot be removed with a puller, grind the face off of one bushing. The remainder of the bushing can then be removed with a press.
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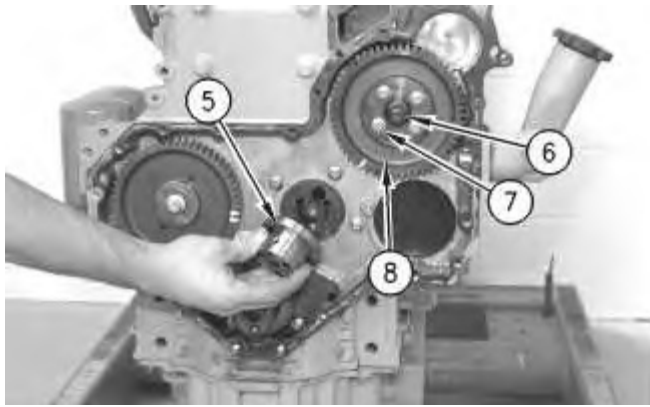


Illustration 3

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6. Remove idler gear hub (5) from the cylinder block.
7. Remove nut (6) and the spring washer from fuel injection pump gear (8) .
8. Remove bolts (7) from fuel injection pump gear (8) .

Note: Some fuel injection pump gears may have a tamper proof torx screw in place of one of the four bolts. Use Tooling (B) to remove the tamper proof torx screw, if necessary.

9. Use Tooling (A) to remove fuel injection pump gear (8) .

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i01744102

Gear Group (Front) - Install

SMCS - 1206-012

Installation Procedure

NOTICE

Keep all parts clean from contaminants.

Contaminants may cause rapid wear and shortened component life.

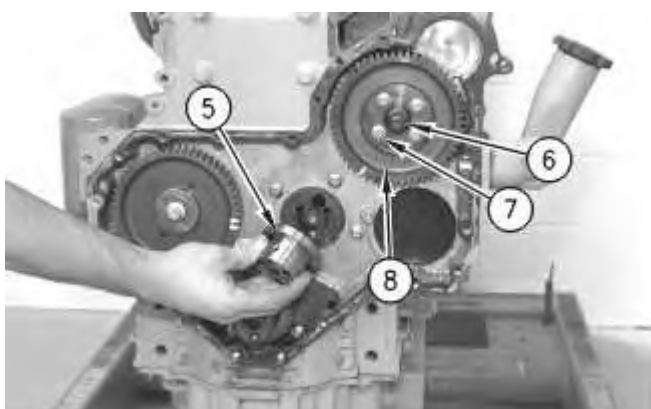


Illustration 1

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1. Install fuel injection pump gear (8) on the engine.
2. Install bolts (7) on fuel injection pump gear (8).

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