



Service Repair Manual

Models

416B Backhoe Loader

Product: BACKHOE LOADER

Model: 416B BACKHOE LOADER 8SG

Configuration: 416B Backhoe Loader 8SG12000-14798 (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

i01741403

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, "Caterpillar Dealer Service Tool Catalog" for tools and supplies suitable to collect and contain fluids on Caterpillar products.

Dispose of all fluids according to local regulations and mandates.

Engines with 14 Bolt Housing Assembly

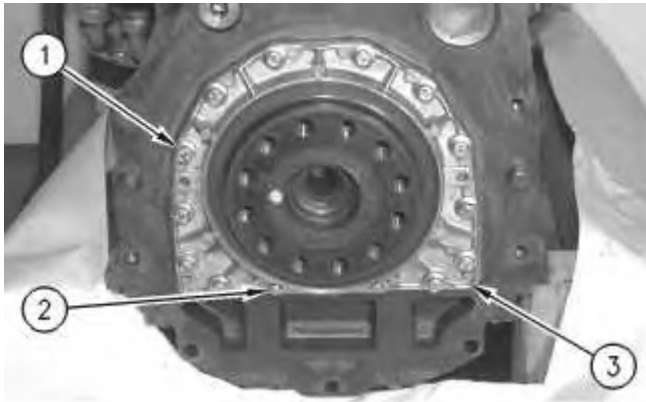


Illustration 1

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The flywheel housing has been removed for photographic purposes only.

1. Remove bolts (1) from housing (3).
2. Remove socket head bolts (2) from housing (3).
3. Remove the crankshaft rear seal, the gasket, and housing (3) from the dowels in the cylinder block.

Engines with 10 Bolt Housing Assembly

Note: The 10 bolt housing assembly is manufactured as a one-piece assembly. The 10 bolt housing assembly is NOT adaptable to engines that have the 14 bolt housing assembly.

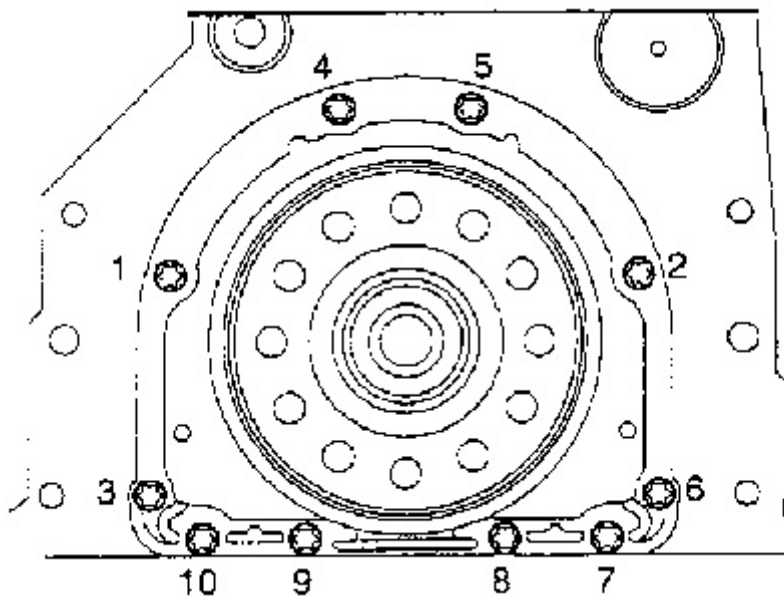


Illustration 2

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1. Remove the bolts in reverse order of the numbered sequence. Refer to Illustration 2.
2. Remove the one-piece housing assembly from the cylinder block.

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Crankshaft Rear Seal - Install

SMCS - 1161-012

Installation Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	9U-6205	Rear Seal Installer	1
	1P-0510	Driver Group	1
B	FT-2806	Alignment Tool	1

NOTICE

Keep all parts clean from contaminants.

Contaminants may cause rapid wear and shortened component life.

Engines with 14 Bolt Housing Assembly

1. Inspect the condition of the gasket. Replace the gasket, if necessary.
 2. Clean the areas of the parts that will contact each other.
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