Disassembly and Assembly3054 Engine for Caterpillar Built Machines

Media Number -SENR6241-13

Publication Date -01/08/2008

Date Updated -04/08/2008

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Crankshaft Rear Seal - Remove

SMCS - 1161-011

Removal Procedure

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	NOTICE
Keep all parts clo	ean from contaminants.
Contaminants m	ay cause rapid wear and shortened component li
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	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

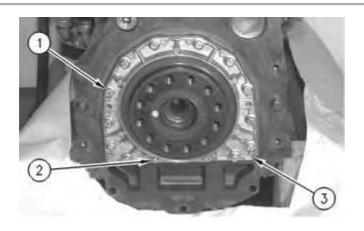


Illustration 1 g00632744

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.

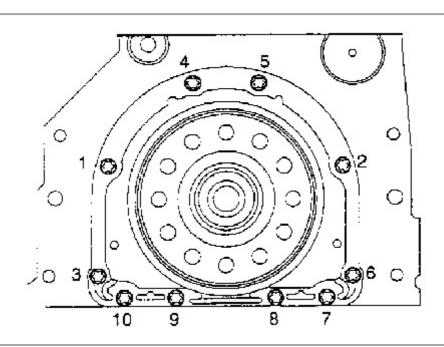


Illustration 2 g00830867

- 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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Model: 438B BACKHOE LOADER 3KK

Configuration: 438B BACKHOE LOADER 3KK03000-UP (MACHINE) POWERED BY 3054 DIESEL ENGINE

Disassembly and Assembly3054 Engine for Caterpillar Built Machines

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i01605362

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		
В	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.

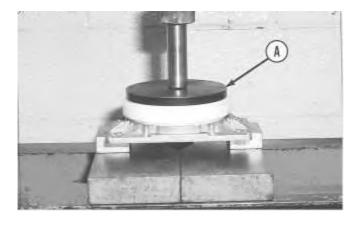


Illustration 1

g00541839

- 3. Use Tool (A) and a suitable press to install the crankshaft rear seal into the housing. Make sure that you install the seal to the correct depth in the housing. Refer to Specifications, "Crankshaft Seals" for additional information.
- 4. Lubricate the crankshaft flange and the lip of the crankshaft rear seal with clean engine oil.
- 5. Install Tool (A) onto the crankshaft flange.
- 6. Put the new gasket for the housing in position on the dowels in the cylinder block.

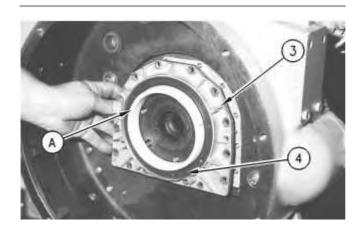


Illustration 2

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- 7. Carefully place housing (3) and crankshaft rear seal (4) over Tool (A).
- 8. Position housing (3) on the dowels in the cylinder block.
- 9. Remove Tool (A).

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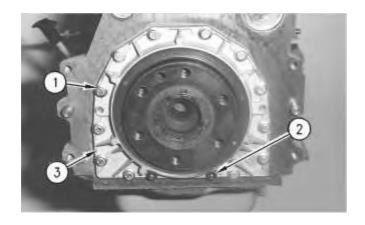


Illustration 3 g00606340

The flywheel housing has been removed for photographic purposes only.

- 10. Install bolts (1) and socket head bolts (2) that fasten housing (3) to the cylinder block.
- 11. Tighten all of the bolts to a torque of 22 N·m (16 lb ft).

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.

1. Ensure that all parts and surfaces of the engine block are clean and free from oil, grease, and dirt.

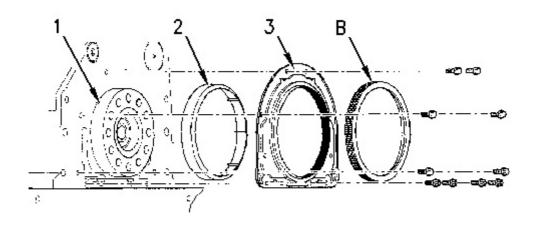


Illustration 4 g00831176