



Service Repair Manual

Model

438C BACKHOE LOADER

Product: BACKHOE LOADER

Model: 438C BACKHOE LOADER 1JR

Configuration: 438C Backhoe Loader Center Pivot, Single Tilt 1JR01150-01155 (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

i02108315

Front Cover - Remove

SMCS - 1166-011

Removal Procedure

Start By:

- A. Remove the crankshaft pulley. Refer to Disassembly and Assembly, "Crankshaft Pulley - Remove and Install".
- B. Remove the water pump. Refer to Disassembly and Assembly, "Water Pump - Remove".
- C. Remove the alternator. Refer to Disassembly and Assembly, "Alternator - Remove and Install".

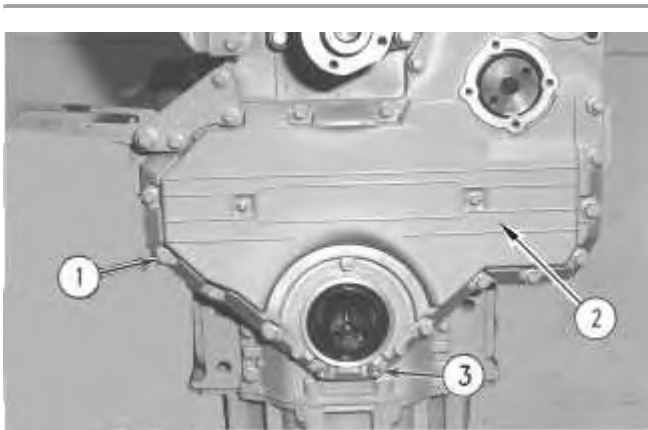


Illustration 1

g00640000

1. Remove bolts (1) and nuts (3) from the front cover.
2. Remove front cover (2) and the gasket from the cylinder block.

Product: BACKHOE LOADER

Model: 438C BACKHOE LOADER 1JR

Configuration: 438C Backhoe Loader Center Pivot, Single Tilt 1JR01150-01155 (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

i01694904

Front Cover - Install

SMCS - 1166-012

Installation Procedure

Table 1

| Required Tools | | | |
|----------------|-------------|-----------------------|-----|
| Tool | Part Number | Part Description | Qty |
| A | 9U-6210 | Front Seal Installer | 1 |
| B | 4C-5501 | Front Cover Installer | 1 |

NOTICE

Keep all parts clean from contaminants.

Contaminants may cause rapid wear and shortened component life.

1. Clean all surfaces of the front housing and clean the front cover thoroughly.
 2. If necessary, use Tool (A) to install the crankshaft front oil seal. Refer to Disassembly and Assembly, "Crankshaft Front Seal - Install".
-

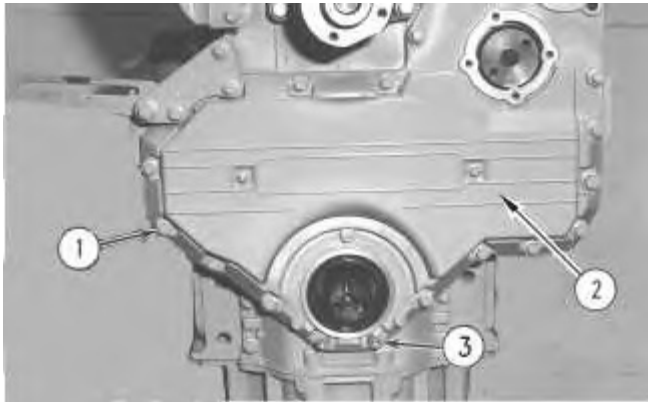


Illustration 1

g00640000



Illustration 2

g00546873

3. Install a new gasket and front cover (2) .
4. Install two bolts (1) in order to hold the gasket and the cover in place.
5. Use Tool (B) and the bolts for the crankshaft pulley in order to center the front cover.

NOTICE

The location of the front cover is critical. If the front cover is not centered, the backlash between the fuel injection pump gear and the water pump gear could be affected. This could result in damage to the fuel injection pump.

6. Install the remaining bolts (1) and the two nuts (3). Tighten the nuts and the bolts to a torque of 22 N·m (16 lb ft).

End By:

- a. Install the alternator. Refer to Disassembly and Assembly, "Alternator - Remove and Install".
- b. Install the water pump. Refer to Disassembly and Assembly, "Water Pump - Install".
- c. Install the crankshaft pulley. Refer to Disassembly and Assembly, "Crankshaft Pulley - Remove and Install".

Thank you so much for reading.
Please click the “Buy Now!”
button below to download the
complete manual.



After you pay.

You can download the most
perfect and complete manual in
the world immediately.

Our support email:

ebooklibonline@outlook.com