

Product: BACKHOE LOADER

Model: 436C BACKHOE LOADER 2BR

Configuration: 436C Backhoe Loader Center Pivot, Parallel Lift 2BR00911-UP (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

i01741450

Flywheel Housing - Remove and Install

SMCS - 1157-010

Removal Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	138-7574	Link Bracket	2

Start By:

- a. Remove the electric starting motor. Refer to Disassembly and Assembly, "Electric Starting Motor - Remove and Install".
- b. 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.

1. Support the engine with blocks or with a suitable lifting device on a flat level surface.

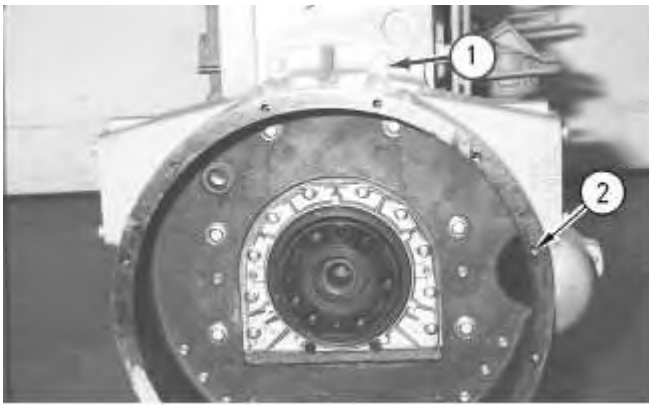


Illustration 1

g00541891

Typical example

2. Remove mounting bolts (1) from the top of flywheel housing (2).

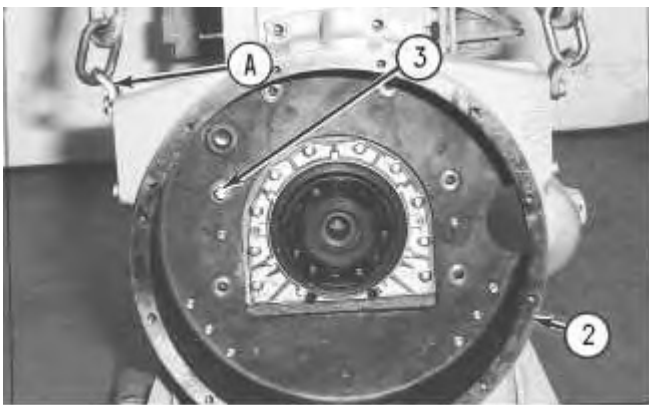


Illustration 2

g00541892

Typical example

3. Attach Tooling (A) and a suitable lifting device to flywheel housing (2).
4. Remove mounting bolts (3) that attach the flywheel housing to the cylinder block.

- Remove flywheel housing (2). If necessary, hit flywheel housing (2) with a soft faced hammer in order to separate flywheel housing (2) from the cylinder block. The weight of flywheel housing (2) is approximately 32 kg (70 lb).

Installation Procedure

Table 2

Required Tools			
Tool	Part Number	Part Description	Qty
A	138-7574	Link Bracket	2

NOTICE

Keep all parts clean from contaminants.

Contaminants may cause rapid wear and shortened component life.

- Clean the rear face of the cylinder block and the mating surface of the flywheel housing. Inspect the felt seal on the rear flange of the engine oil pan. Replace the felt seal, if necessary. Inspect the dowels in the cylinder block that align the flywheel housing. Replace the dowels, if necessary.

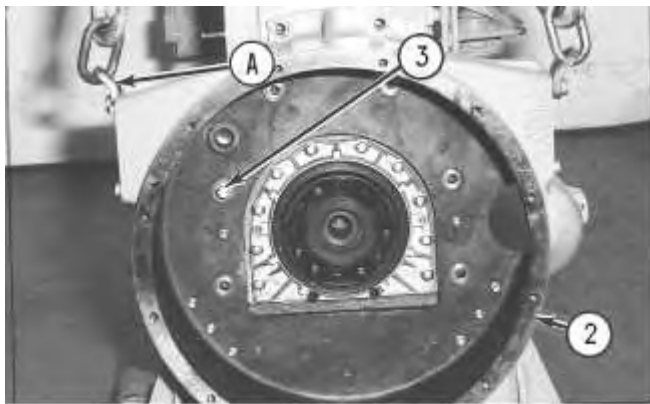


Illustration 3

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- Use Tooling (A) and a suitable lifting device to position flywheel housing (2) on the dowels that are on the cylinder block. The weight of flywheel housing (2) is approximately 32 kg (70 lb).
 - Install mounting bolts (3).
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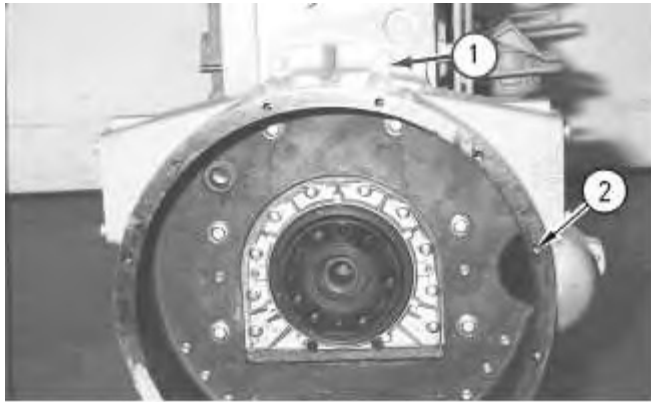


Illustration 4

g00541891

Typical example

4. Install mounting bolts (1) that attach flywheel housing (2) to the cylinder block.

Tighten the bolts for an aluminum flywheel housing to a torque of 70 N·m (52 lb ft).

Tighten the cast iron flywheel housing bolts to the following torque:

M10 "8.8" ... 44 N·m (33 lb ft)

M10 "10.9" ... 63 N·m (46 lb ft)

M12 "8.8" ... 75 N·m (55 lb ft)

M12 "10.9" ... 115 N·m (85 lb ft)

5. Remove Tooling (A) from the flywheel housing.

End By:

- a. Install the flywheel. Refer to Disassembly and Assembly, "Flywheel - Install".
 - b. Install the electric starting motor. Refer to Disassembly and Assembly, "Electric Starting Motor - Remove and Install".
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Media Number -SEN6241-13

Publication Date -01/08/2008

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i01461242

Crankshaft Pulley - Remove and Install

SMCS - 1205-010

Removal Procedure

Start By:

- A. Remove the V-Belts. Refer to Disassembly and Assembly, "V-Belts - Remove and Install".

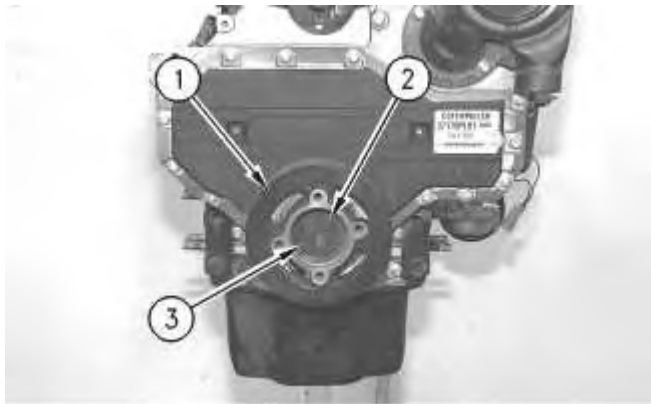


Illustration 1

g00553762

Typical example

1. Remove three bolts (2) that hold thrust block (3) in position.
2. Remove thrust block (3) from the end of the crankshaft. The thrust block holds the crankshaft pulley in position on the end of the crankshaft.
3. Remove crankshaft pulley (1) from the engine.

Note: Some engines have a water immersion seal that is placed on the front cover. The seal has a flexible lip on the front. The plastic mandrel that is supplied with the seal must be installed in the seal when the crankshaft pulley is removed. This will ensure that the lip maintains the correct shape.

Installation Procedure

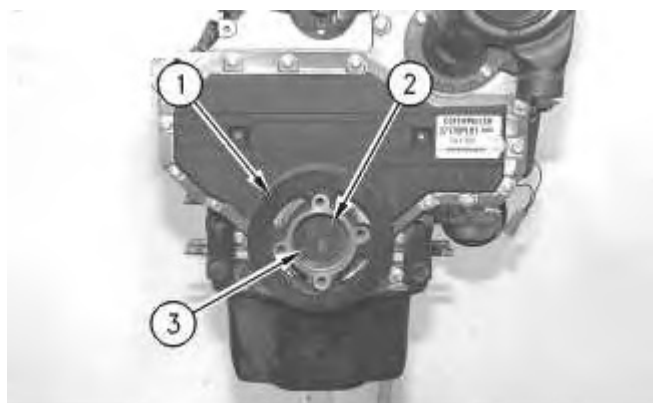


Illustration 2

g00553762

Typical example

1. Remove the plastic mandrel, if necessary.
2. Put crankshaft pulley (1) in position on the crankshaft.
3. Apply **9S-3263** Thread Lock Compound to the threads of three bolts (2) .
4. Put thrust block (3) in position and align the holes with the holes in the end of the crankshaft.

Note: It may be necessary to keep the crankshaft from rotating while you torque bolts (3). Use the appropriate tools in order to keep the crankshaft from rotating.

5. Install three bolts (2) that hold the thrust block in position. Tighten bolts (2) to a torque of 115 N·m (85 lb ft).

End By: Install the V-Belts. Refer to Disassembly and Assembly, "V-Belts - Remove and Install".

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