



Service Repair Manual

Model

432E BACKHOE LOADER

Product: BACKHOE LOADER

Model: 432E BACKHOE LOADER BXE

Configuration: 432E Backhoe Loader Parallel Lift Side Shift Boom BXE00001-UP (MACHINE) POWERED BY 3054C Engine

Disassembly and Assembly 3054C Engines for Caterpillar Built Machines

Media Number -SEN5069-18

Publication Date -01/05/2015

Date Updated -19/09/2018

i02308847

V-Belts - Remove and Install

SMCS - 1357-010

Removal Procedure

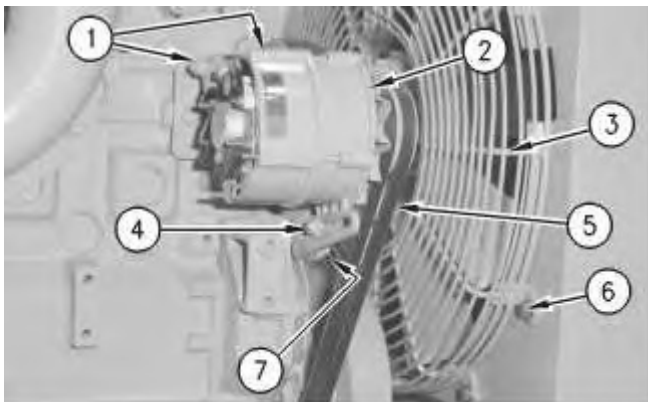


Illustration 1

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Typical example

1. If necessary, remove the setscrews (6) that fasten the fan guard (3) to the fan shroud. Remove the fan guard (3).
2. Loosen the nut (1), the clamping screw (4), and the setscrew (7). Slide the alternator (2) toward the engine.

Note: If the nut (1) is loose on the setscrew, remove the nut and discard the nut.

3. Maneuver the V-belts (5) around the fan and remove the V-belts.

Note: Never replace one V-belt. Always replace sets of V-belts, if equipped.

Installation Procedure

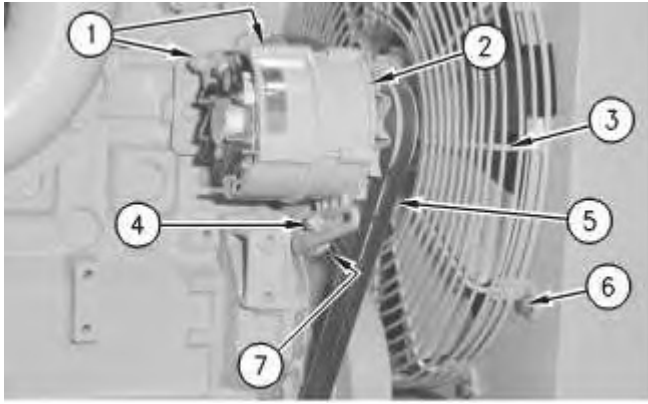


Illustration 2

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Typical example

1. Install the V-belts (5) behind the fan and on the correct pulleys.
2. Adjust the tension on the V-belts (5) by moving the alternator (2) away from the engine. After the correct belt tension is set, tighten the clamping screw (4) to a torque of 78 N·m (58 lb ft). Refer to Testing and Adjusting, "V-Belt - Test" for the correct tension of the V-belts.

Note: If the V-belt cannot be checked with a gauge, press on the V-belt at the center of the longest free length in order to check the deflection. Under a moderate amount of pressure, the V-belt should have a deflection of 10.0 mm (0.40 inch).

3. Tighten the setscrew (7) to a torque of 22 N·m (16 lb ft).
4. If necessary, install a new nut (1). Tighten the nut to a torque of 22 N·m (16 lb ft).
5. If the fan guard was previously removed, put the fan guard (3) in position on the fan shroud. Install the setscrews (6) that fasten the fan guard to the fan shroud.

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Media Number -SEN5069-18

Publication Date -01/05/2015

Date Updated -19/09/2018

i02308856

Fan - Remove and Install

SMCS - 1356-010

Removal Procedure

Start By:

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

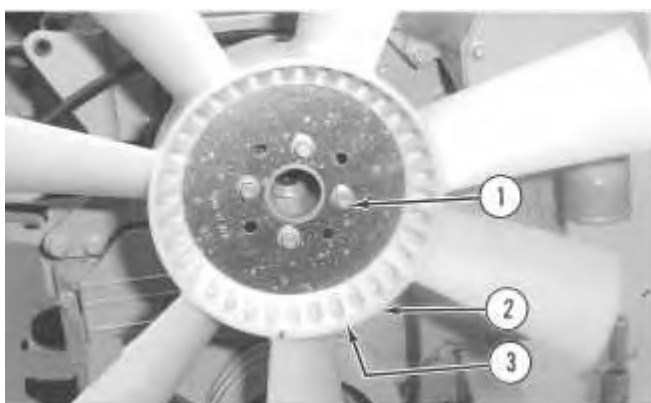


Illustration 1

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1. Remove the setscrews (1).
2. Remove the fan (2).
3. If equipped, remove the extension (3).



Illustration 2

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4. Remove the fan pulley (4).

Installation Procedure

1. Inspect the condition of the fan pulley (4) and the fan (2). If necessary, replace the fan pulley or the fan.



Illustration 3

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2. Install the fan pulley (4).

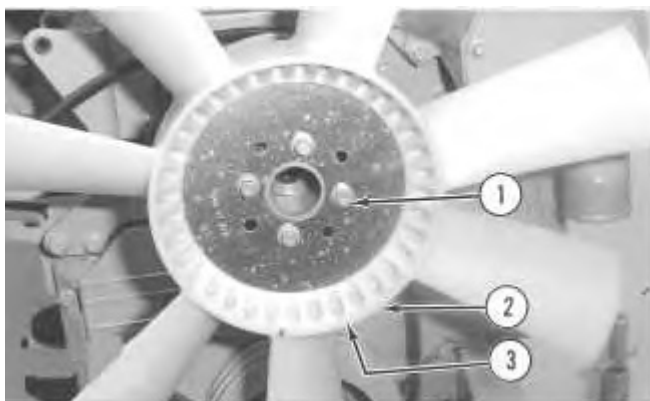


Illustration 4

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