

Product: EXCAVATOR
Model: 325B EXCAVATOR 8GM
Configuration: ISJ HEX COMMONALITY CHART 8GM00001-UP (MACHINE)

Disassembly and Assembly Flexxaire Fan

Media Number -REN3699-07

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i01742852

Mechanical Actuated Fan - Disassemble

SMCS - 1356-015

Preliminary Disassembly Procedure

The following procedures will aid you in failure analysis.

Note: Removal of the fan is not always necessary in order to remove the bellcrank and the control shaft assembly.

Note: If removal of the fan is required, refer to Disassembly and Assembly, "Fan - Remove and Install" for your machine for the procedure to remove the fan.

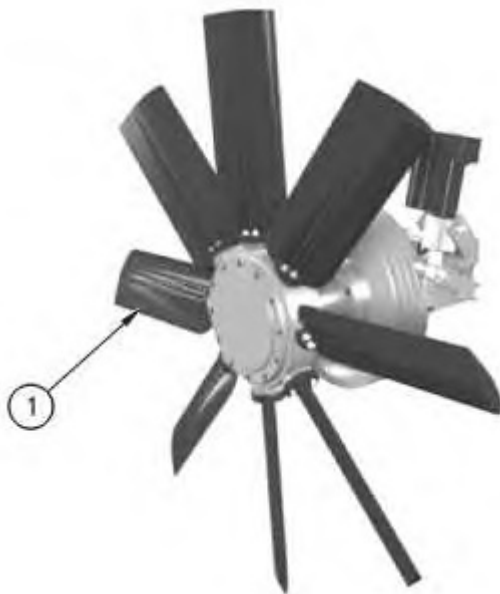


Illustration 1

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1. Remove blades (1) from the fan assembly.

2. Mount the fan assembly to a stand, if a stand is available.

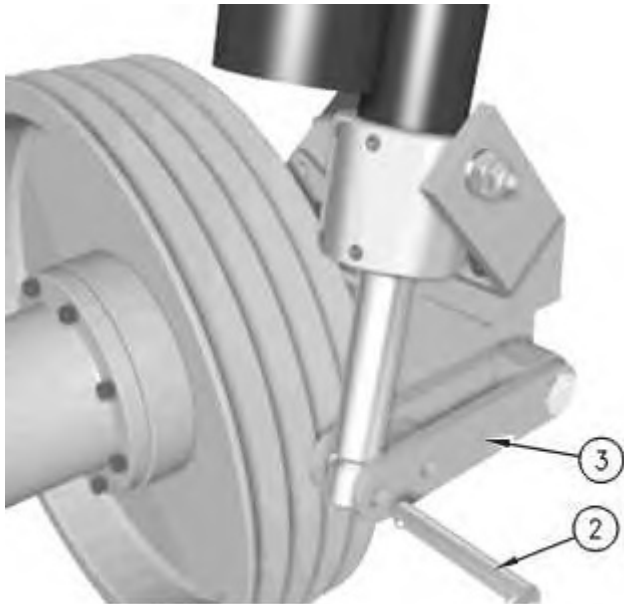


Illustration 2

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3. Remove hitch pin (2) from operator fork (3).

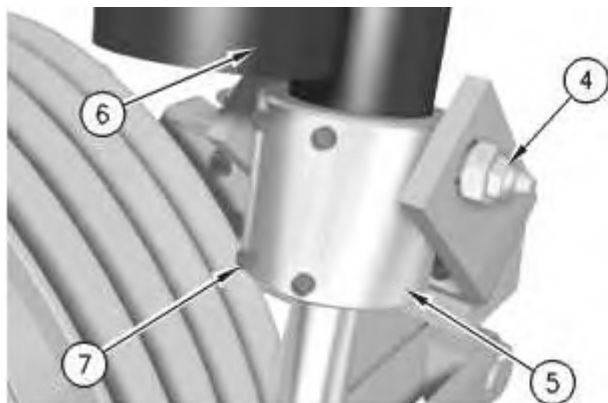


Illustration 3

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4. Loosen four setscrews (7) and remove actuator (6) from actuator collar (5). If you are unable to loosen setscrews (7), remove shoulder bolts (4) from actuator collar (5).
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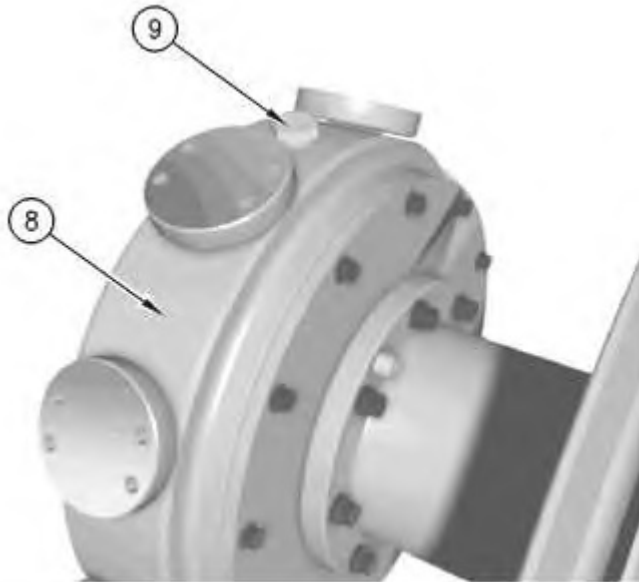


Illustration 4

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5. Rotate hub (8) until oil filler plug (9) is facing upward.
6. Remove oil filler plug (9).

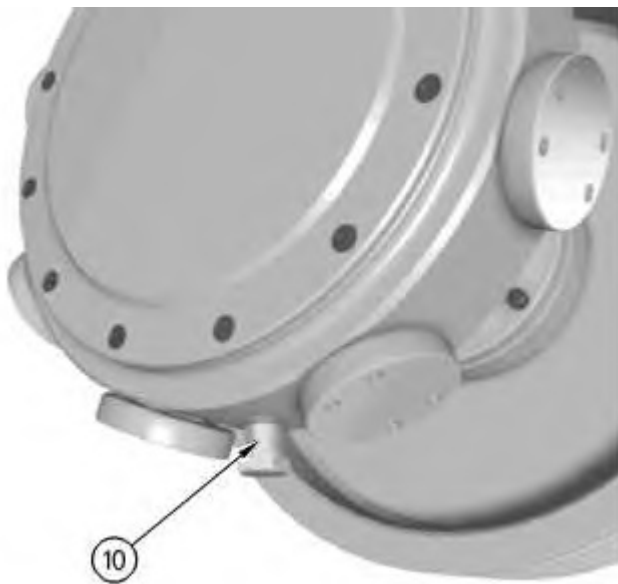


Illustration 5

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7. Remove oil drain plug (10) and drain the oil into a suitable container. Record the amount of oil that is contained.
8. Install two bolts into one of the blade mounting shafts. Use the bolts in order to rotate the blade mounting shaft through the full range of motion. The operator fork should contact both of the mechanical stops that are located on the alignment plate.

Pressure Test

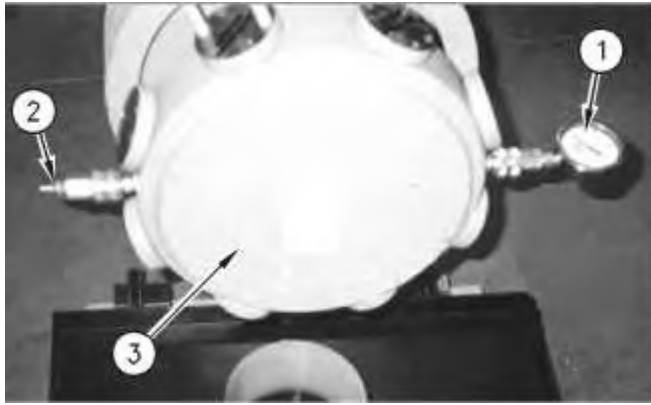


Illustration 6

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1. Attach air pressure gauge (1) and air chuck (2) into the ports that contained the oil plugs.
2. Pressurize hub (3) with 103.0 kPa (15.0 psi) to 138.0 kPa (20.0 psi) of air.

Note: A 6.9 kPa (1.0 psi) to 20.7 kPa (3.0 psi) pressure drop is immediately evident.

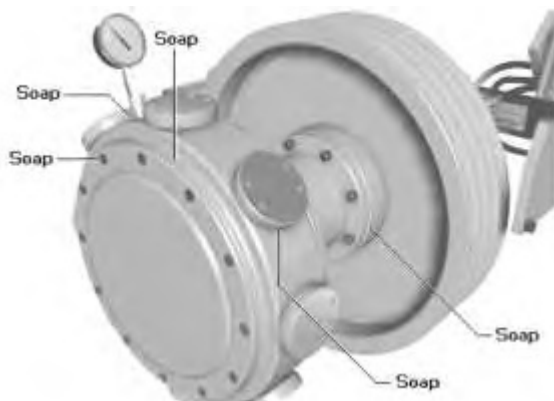


Illustration 7

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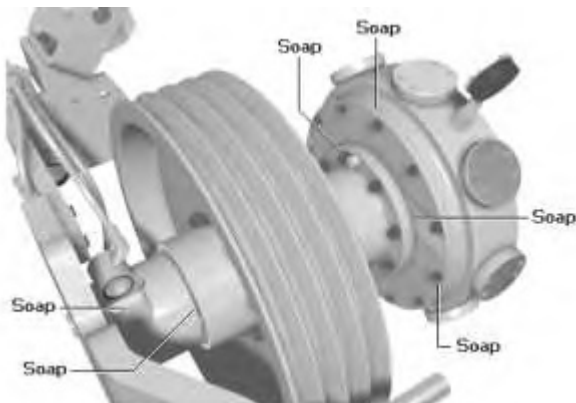


Illustration 8

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3. Wait for approximately ten minutes. Test all of the sealing surfaces with soap.
4. The area around the bellcrank must also be tested. Removal of the bellcrank cover is required in order to perform a proper test.
5. Again, use the bolts in order to rotate the blade mounting shaft through the full range of motion. The operator fork should contact both of the mechanical stops that are located on the alignment plate.
6. If there are no leaks, increase the air pressure to 206.8 kPa (30.0 psi) and 275.8 kPa (40.0 psi). If leaks are present, record the location of the leak.
7. Repeat Steps 3 through 5.

Bellcrank / Control Shaft Assembly – Remove

1. Use an emery cloth in order to remove the paint from the control shaft. This will allow the shaft to pass freely through the bushings and seals.

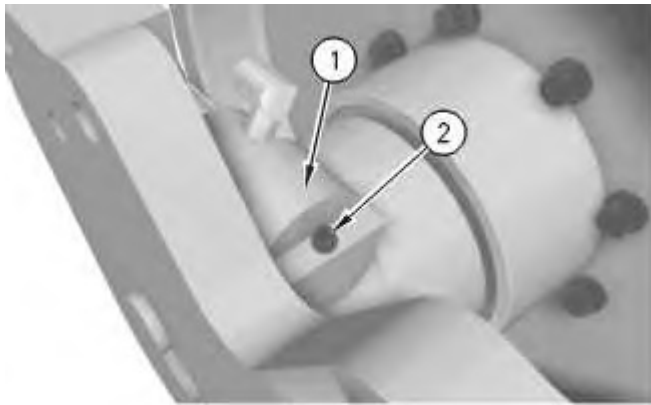


Illustration 9

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2. Move the operator fork into the NEUTRAL position. Cut the silicone sealant that is around bellcrank cover (1).
3. Remove capscrew (2) that holds bellcrank cover (1) in place and remove the cover.

Note: Not all applications will have capscrew (2). If your application does not have capscrew (2), bellcrank cover (1) is held in place by the silicone sealant, only. Remove the sealant. Set bellcrank cover (1) aside to be reinstalled at a later time.

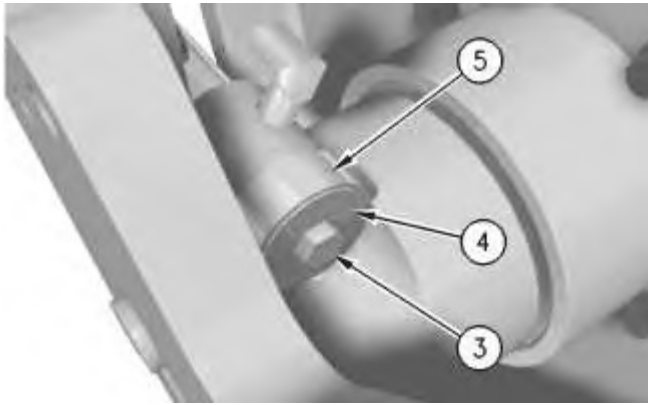


Illustration 10

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4. Remove bolt (3) and washer (4) that secures bellcrank (5).

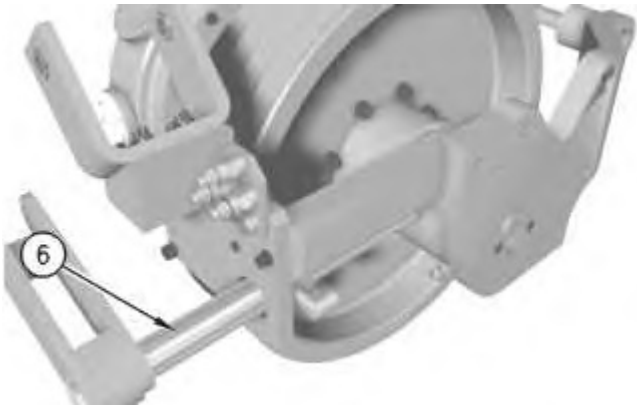


Illustration 11

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5. Remove control shaft (6).

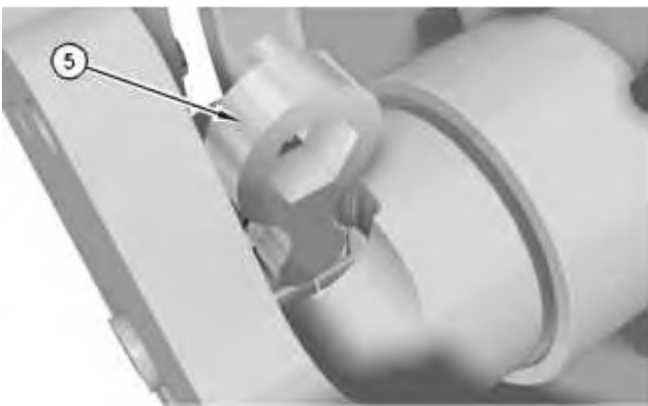


Illustration 12

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6. Remove bellcrank (5) from the slot. Proceed to "Standard Hub Removal". If you are unable to remove bellcrank (5), the through shaft may have failed. Proceed to "Hub Removal via Front Cover".

Hub Assembly – Remove

Standard Hub Removal

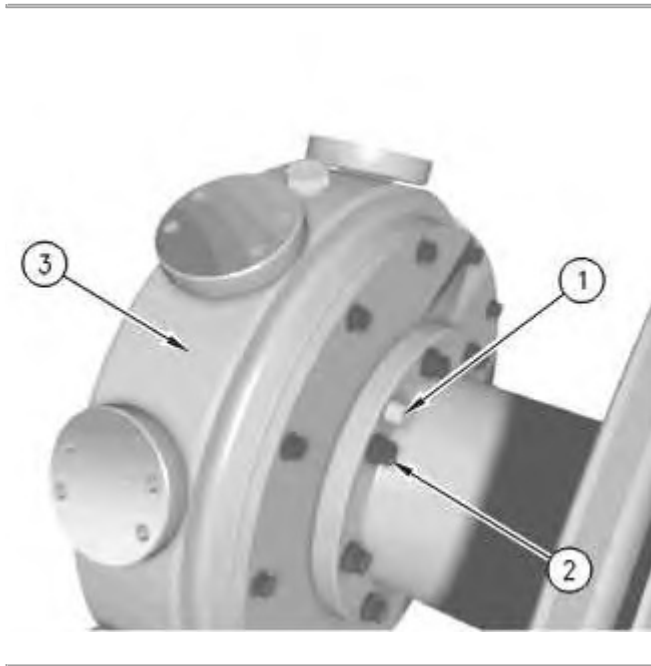


Illustration 13

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1. Remove oil level plug (1) and capscrews (2) that secure hub assembly (3).

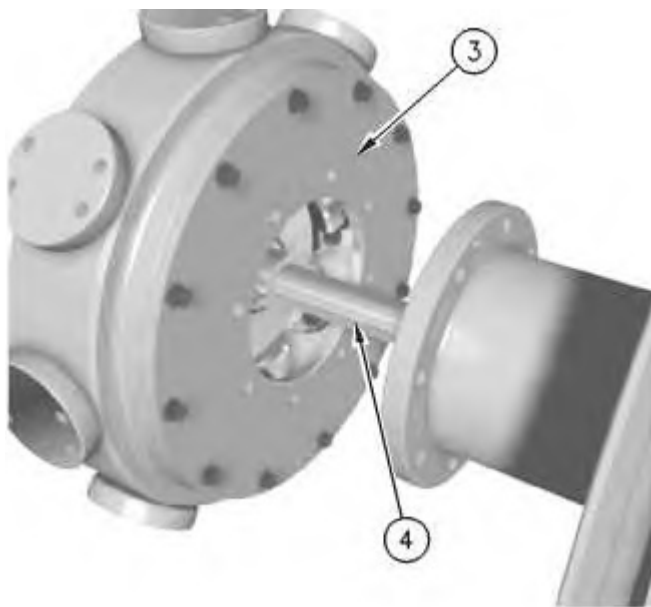


Illustration 14

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2. Remove hub assembly (3). Through shaft (4) should be removed with hub assembly (3).
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