



Service Repair Manual

Model

434E BACKHOE LOADER

Product: BACKHOE LOADER

Model: 434E BACKHOE LOADER FSH

Configuration: 434E Backhoe Loader Parallel Lift Side Shift Boom FSH00001-UP (MACHINE) POWERED BY 3054C Engine

Disassembly and Assembly

414E, 416E, 420E, 422E, 428E, 430E, 432E, 434E, 442E and 444E Backhoe Loaders Machine Systems

Media Number -REN6485-08

Publication Date -01/01/2013

Date Updated -24/01/2013

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Sliding Frame and Bearing - Remove

SMCS - 6508-011; 7551-011

Removal Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	138-7575	Link Bracket	1
B	1P-1836	Bearing Puller Adapter	1
	4C-9634	Puller Stud	1
	9U-6832	Nut	1
	6V-3175	Double Acting Cylinder	1
	FT-1410	Sleeve	1
	3S-6224	Electric Hydraulic Pump Gp	1
	126-8928	Hard Washer	1
C	1P-1835	Bearing Puller Adapter	1
	4C-9634	Puller Stud	1
	9U-6832	Nut	1
	6V-3160	Double Acting Cylinder	1
	FT-1410	Sleeve	1
	3S-6224	Electric Hydraulic Pump Gp	1

Start By:

- A. Remove the swing frame. Refer to Disassembly and Assembly, "Swing Frame - Remove".
- B. Remove the swing cylinders. Refer to Disassembly and Assembly, "Swing Cylinder - Remove and Install".

**WARNING**

Personal injury can result from hydraulic oil pressure and hot oil.

Hydraulic oil pressure can remain in the hydraulic system after the engine has been stopped. Serious injury can be caused if this pressure is not released before any service is done on the hydraulic system.

Make sure all of the attachments have been lowered, oil is cool before removing any components or lines. Remove the oil filler cap only when the engine is stopped, and the filler cap is cool enough to touch with your bare hand.

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.

NOTICE

Keep all parts clean from contaminants.

Contaminants may cause rapid wear and shortened component life.



WARNING

Cylinders equipped with lock valves can remain pressurized for very long periods of time, even with the hoses removed.

Failure to relieve pressure before removing a lock valve or disassembling a cylinder can result in personal injury or death.

Ensure all pressure is relieved before removing a lock valve or disassembling a cylinder.

Note: Put identification marks on all lines, on all hoses, on all wires, and on all tubes for installation purposes. Plug all lines, all hoses and all tubes. This helps to prevent fluid loss and this helps to keep contaminants from entering the system.

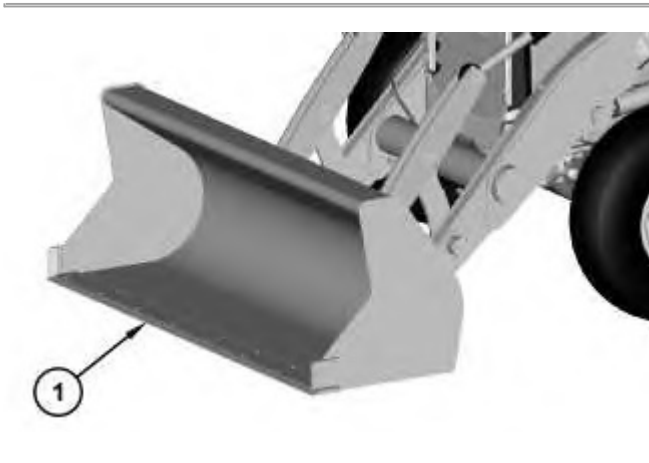


Illustration 1

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1. Position bucket (1) on the ground.
 2. Release the pressure in the hydraulic system. Refer to Disassembly and Assembly, "Hydraulic System Pressure - Release".
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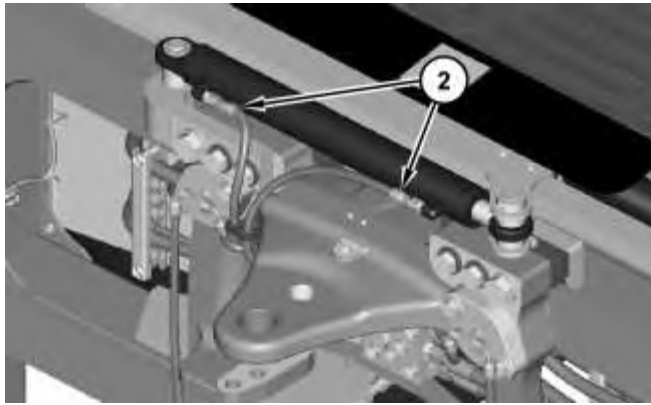


Illustration 2

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3. Disconnect hose assemblies (2) .

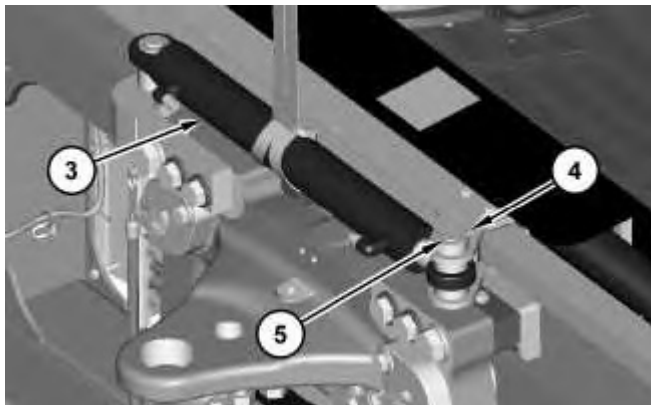


Illustration 3

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4. Attach a suitable lifting device onto cylinder (3). Remove bolt (4). Remove pin (5) .

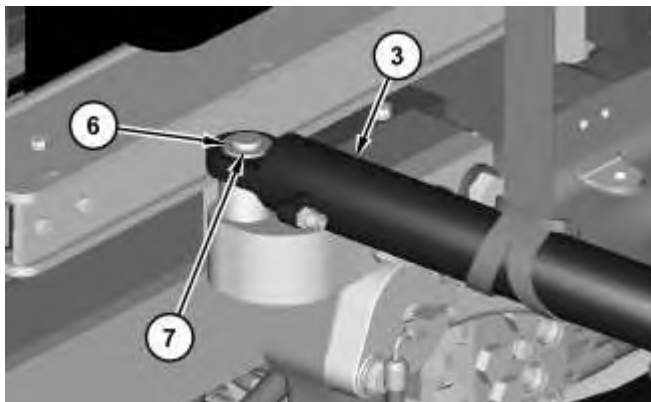


Illustration 4

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5. Remove retaining ring (6). Remove retainer (7). Remove cylinder (3) .

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