



Service Repair Manual

Models

430F Backhoe Loader

Product: BACKHOE LOADER

Model: 430F BACKHOE LOADER RDF

Configuration: 430F Backhoe Loaders RDF00001-UP (MACHINE) POWERED BY C4.4 Engine

Disassembly and Assembly 416F, 420F and 430F Backhoe Loaders Machine Systems

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i06851396

Piston Pump - Disassemble - Main Hydraulic

SMCS - 5070-015; 5455

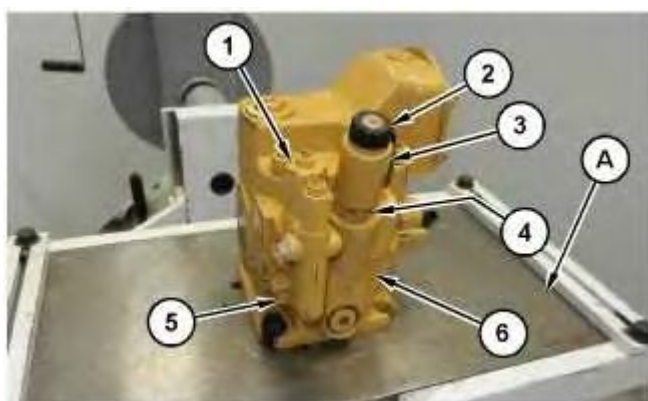
Disassembly Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	437-3776	Fixture As.	1
	1U-9128	Adapter Plate	1
	1U-5750	Engine Stand	1
B	9S-9152	Bearing Puller	1

Start By:

- a. Remove the piston pump (main hydraulic).





WARNING

Sudden release of spring force can cause injury.

To prevent the possibility of injury, follow the procedure to relieve the spring pressure.

1. Secure the piston pump to Tooling (A) or a suitable fixture.
2. Remove nut (2) and the O-ring seal, solenoid (3), and valve (4) from main pump housing (6).
3. Remove bolts (5) and compensator valve (1) from main pump housing (6).

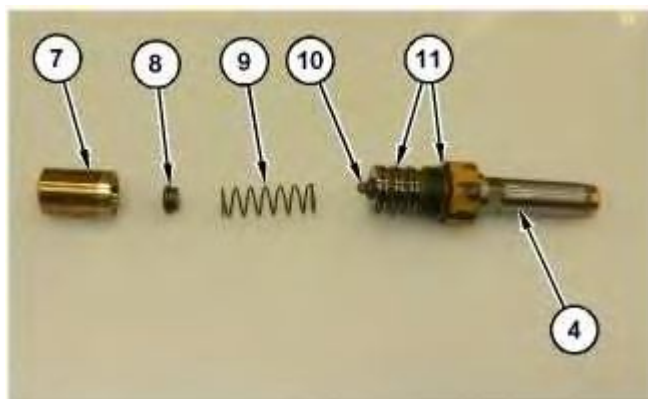


Illustration 2

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4. Remove actuator piston (7), spring guide (8), spring (9), spool (10), and O-ring seals (11) from valve (4).

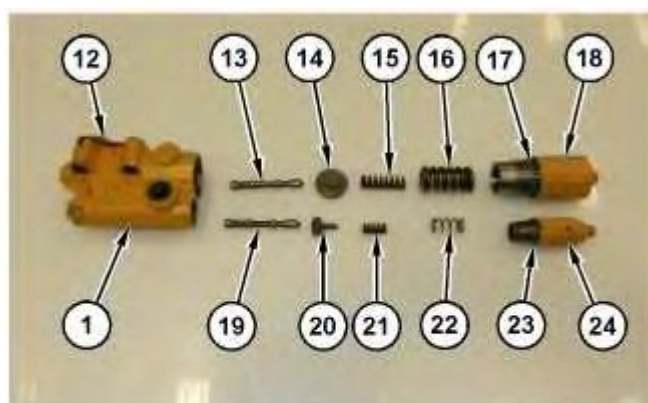


Illustration 3

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WARNING

Sudden release of spring force can cause injury.

To prevent the possibility of injury, follow the procedure to relieve the spring pressure.

5. Remove gasket (12) from compensator valve (1).
 6. Remove plug (18), O-ring seal (17), spring (16), spring (15), guide (14), and spool (13) from compensator valve (1).
 7. Remove plug (24), O-ring seal (23), spring (22), spring (21), guide (20), and spool (19) from compensator valve (1).
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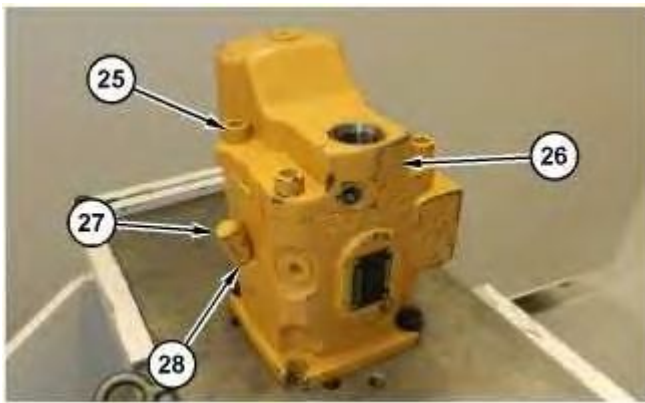


Illustration 4

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WARNING

Sudden release of spring force can cause injury.

To prevent the possibility of injury, follow the procedure to relieve the spring pressure.

8. Remove cover (27) and the O-ring seal. Remove adjustment screw (28) and the O-ring seal. Remove bolts (25) and head assembly (26).
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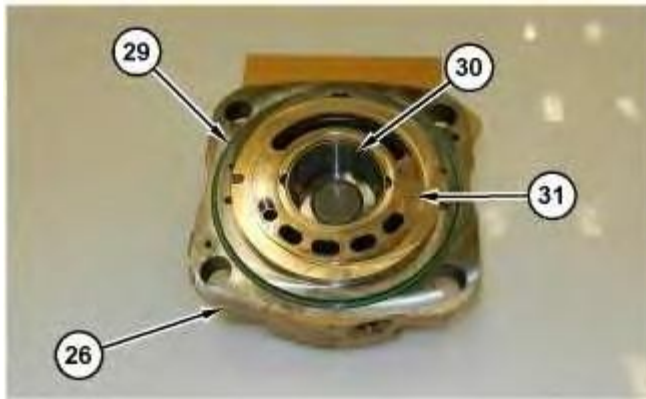


Illustration 5

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9. Remove O-ring seal (29) and port plate (31) from head assembly (26).
10. Remove bearing cup (30) from head assembly (26).



Illustration 6

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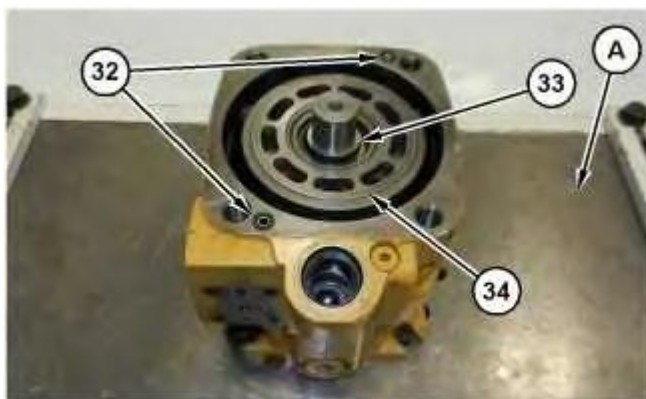


Illustration 7

g06142001

11. Remove bearing cone (31), O-ring seals (32), and shim (33) .
12. Use Tooling (A) to rotate main pump housing (6) to a horizontal position. Remove rotary group (34).

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