



Service Repair Manual

Models

960F Wheel Loader

Product: WHEEL LOADER

Model: 960F WHEEL LOADER 1YM

Configuration: 960F Wheel Loader 1YM00001-UP (MACHINE) POWERED BY 3116 Engine

Disassembly and Assembly 960F WHEEL LOADER MACHINE SYSTEMS

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SEN66750023

Implement, Steering & Pilot Systems Hydraulic Pump

SMCS - 5055-010; 5055-015; 5055-016

Remove & Install Implement, Steering & Pilot Systems Hydraulic Pump

1. Activate the parking brake.
2. Connect the steering frame lock link. See the topic "Separate & Connect Steering Frame Lock Link" in this module.
3. Release the pressure in the hydraulic system as follows:
 - a. Move the lift control lever to the "Float" position.
 - b. Shut off the engine.
 - c. Move the lift control lever to the "Hold" position.



At operating temperature, the hydraulic oil tank is hot and under pressure. Hot oil can cause burns. Remove the filler cap on the hydraulic oil tank only when the engine is stopped, and the filler cap is cool enough to touch with your bare hand. Be sure all the hydraulic pressure is released before any fittings, hoses or components are loosened, tightened, removed or adjusted.

- d. Carefully loosen the filler cap on the hydraulic oil tank to release the pressure.

e. Carefully loosen the plugs at the rear of the tilt cylinder. When the oil from the loosened plugs stops draining, tighten the two plugs.

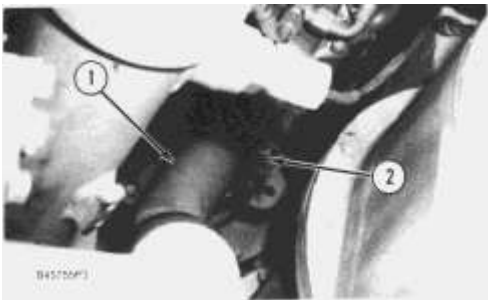
NOTE: To release the pressure in the attachment cylinders, carefully loosen the two large plugs near the plugs at the top of the loader frame. When the oil from the loosened plugs stops draining, tighten the two large plugs.

f. Tighten the filler cap on the hydraulic oil tank.

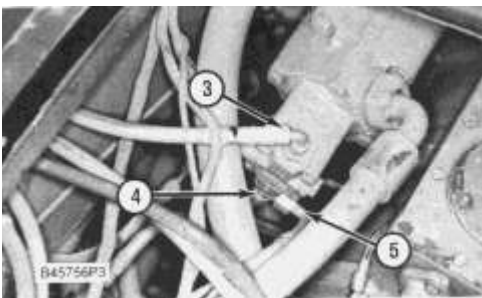
g. The pressure in the hydraulic system has now been released.

4. Using two persons, remove the seat assembly from the cab. The weight of the seat assembly is approximately **23 kg (50 lb)**.

5. Drain the oil from the hydraulic oil tank until the level is below the implement, steering and pilot systems hydraulic pump.

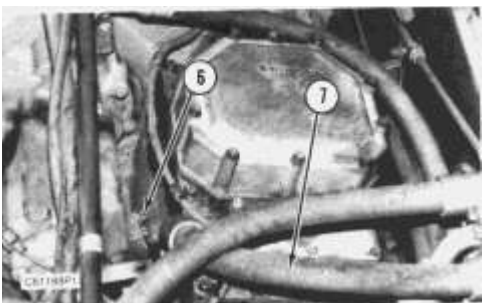


6. Remove bolts (2), and disconnect tube assembly (1) from the bottom side of the hydraulic pump.

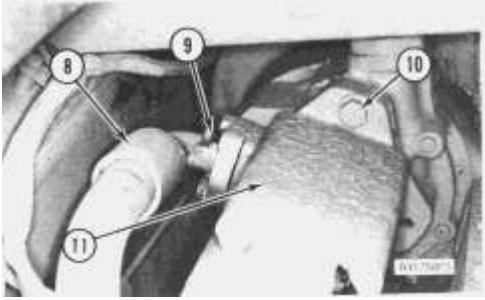


Typical Example

7. Disconnect hose assemblies (3), (4) and (5) from the hydraulic pump.



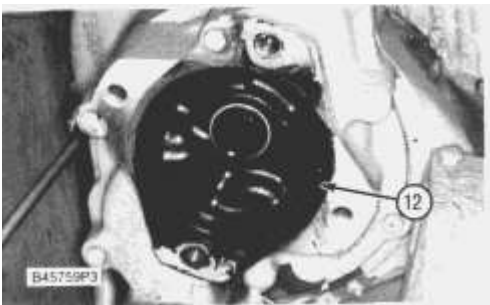
8. Remove bolts (6), and disconnect hose assembly (7) from the hydraulic pump.



9. Remove bolts (9), and disconnect hose assembly (8) from the hydraulic pump.
10. Fasten a hoist or use two persons to hold the hydraulic pump in position.
11. Remove bolts (10), and remove implement, steering and pilot systems hydraulic pump (11). The weight of the hydraulic pump is **27 kg (60 lb)**.

NOTE: The following steps are for the installation of the implement, steering and pilot systems hydraulic pump.

12. Check the condition of all O-ring seals used for installation of the implement, steering and pilot systems hydraulic pump. If any of the seals are worn or damaged, use new parts for replacement.



13. Be sure O-ring seal (12) is in position in the transmission oil pump as shown.
14. Use a hoist or two persons to put the implement, steering and pilot systems hydraulic pump in position in the transmission oil pump. Install two bolts (10) that hold the hydraulic pump in position.
15. Connect hose assembly (8) to the hydraulic pump.
16. Connect hose assembly (7) to the hydraulic pump.
17. Connect hose assemblies (5), (4) and (3) to the hydraulic pump.
18. Connect tube assembly (1) to the bottom side of the hydraulic pump.
19. Reinstall the seat assembly in the cab.
20. Fill the hydraulic oil tank with oil to the correct level. See the Operation & Maintenance Manual for the correct filling procedure.
21. Separate the steering frame lock link. See the topic "Separate & Connect Steering Frame Lock Link" in this module.

Disassemble Implement, Steering & Pilot Systems Hydraulic Pump

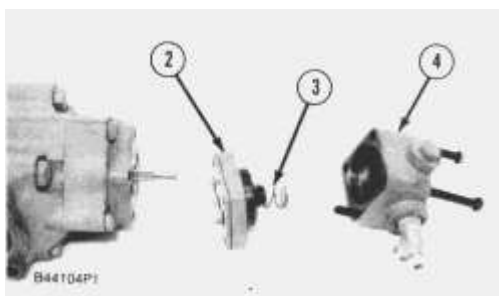
Tools Needed		A
1P1859	Pliers	1

Start By:

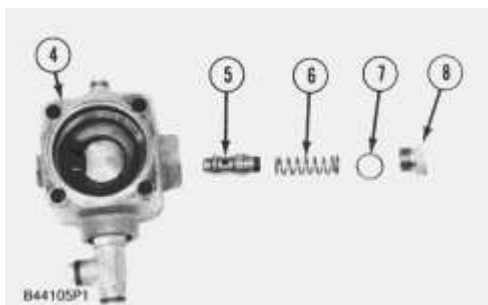
- a. remove implement, steering and pilot systems hydraulic pump



1. For the correct assembly of the parts, the pump rotation is counterclockwise when viewed from the drive end of the pump.
2. Remove O-ring seal (1) from the pump body.



3. Remove the bolts, cover (4) and ring assembly (2) from the pump.
4. Remove spring (3) from ring assembly (2).



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