

2. Drain the oil from the hydraulic oil tank into a suitable container. The capacity of the hydraulic oil tank is **136 liters (36 U.S. gal)**.



3. Disconnect hose assemblies (1) and (3) from the boom drift reduction valve.

NOTE: Tube assemblies (2) and (5) hold boom drift reduction valve (4) in position. There are no mounting bolts for the boom drift reduction valve.

4. Disconnect tube assemblies (2) and (5) from the boom drift reduction valve. Remove boom drift reduction valve (4).

NOTE: The following steps are for the installation of the boom drift reduction valve.

5. Check the condition of the O-ring seals used in the ends of the hose assemblies and tube assemblies that connect to the boom drift reduction valve. If any of the seals are worn or damaged, use new parts for replacement.

6. Install boom drift reduction valve (4) in the reverse order of removal.

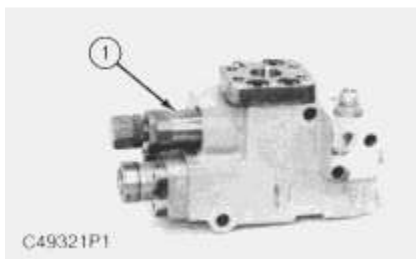
7. Fill the hydraulic oil tank with oil to the correct level. See the Operation & Maintenance Manual for the correct filling procedure.

Disassemble & Assemble Boom Drift Reduction Valve

Start By:

a. remove boom drift reduction valve

1. Be sure the boom drift reduction valve is thoroughly clean prior to disassembly. Put identification marks on all internal parts of the valve for assembly purposes.



2. Remove relief valve (1) from the valve body.

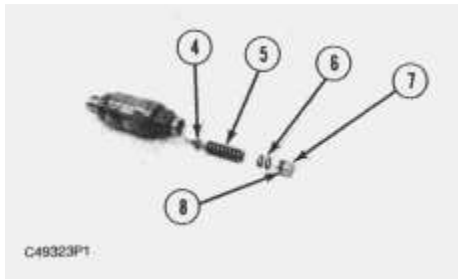
3. Disassemble relief valve (1) as follows:

NOTE: Only the O-ring seals and back-up rings in the relief valve are serviceable. However, the relief valve can be disassembled to be cleaned.



a. Remove O-ring seal (2) from the relief valve.

b. Remove nut (3).

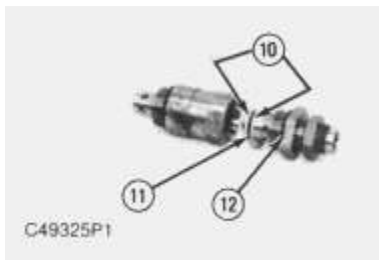


c. Remove piston (7), shims (6), spring (5) and needle (4) from the valve body.

d. Remove seal (8) from piston (7).



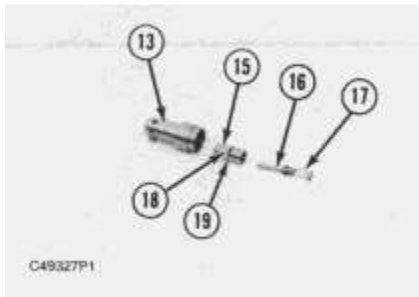
e. Remove seat (9) from the valve body.



f. Remove back-up rings (10), ring (11) and O-ring seal (12) from the seat.

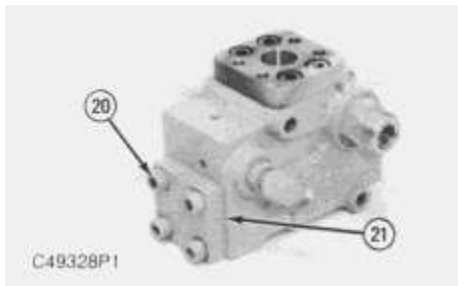


g. Remove valve (13) and spring (14) from the valve body.

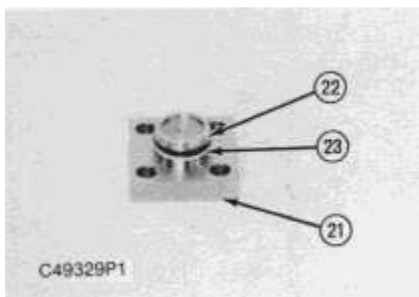


h. Remove valve (15) from valve (13). Remove plunger (16) and spring (17) from valve (15).

i. Remove back-up ring (18) and ring (19) from valve (15).



4. Remove four socket head bolts (20) and cover (21) from the valve body.



5. Remove ring (22) and back-up ring (23) from cover (21).