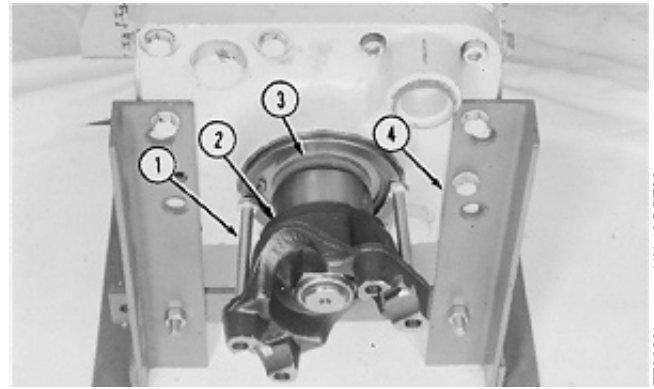


## DISASSEMBLE HYDROSTATIC PUMP

*NOTE: The instructions for the service of 655B and 755B transmissions are similar.*

1. To service the hydrostatic pump, pump must be removed. (See Remove Hydrostatic Pump in Group 0300.)
2. Install transmission pump on hydrostatic pump repair stand. (See Section 99 for instructions to make repair stand.)

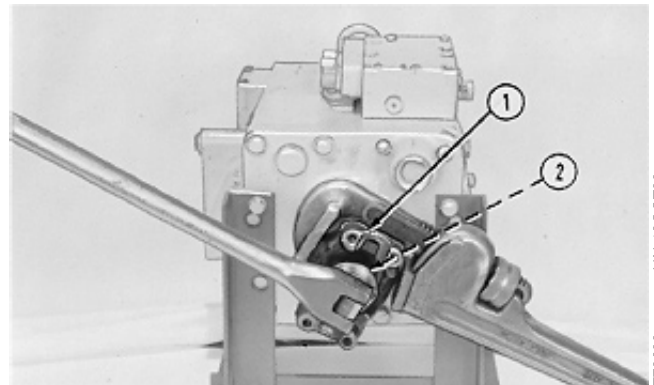
*NOTE: It is not necessary to remove the driven yoke (2) and rotating seal assembly (3) to service the rotating group. Use two 3/8 x 4 in. cap screws and nuts (1) to hold pump shaft in place and keep rotating seal from separating.*



- 1—3/8 x 4 in. Cap Screw and Nut (2 used)
- 2—Drive Yoke
- 3—Rotating Seal
- 4—Hydrostatic Pump Repair Stand

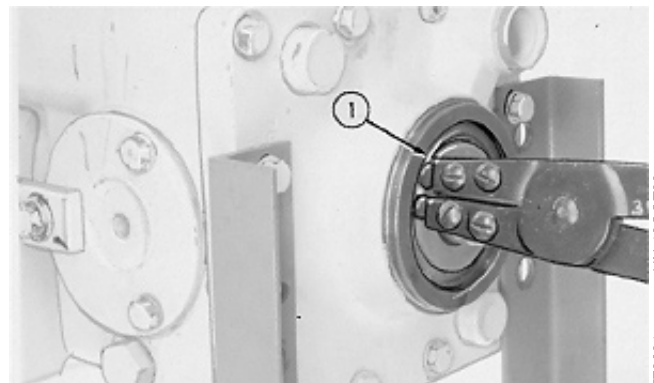
T58,0360,6107BG-19-04APR94

3. Remove lock nut (2).
4. Remove hub (1) using adapters and attachments from the 17-1/2 and 30 ton puller set.
5. Remove dust seal from pump shaft.



T58,0360,6029BB-19-02MAY85

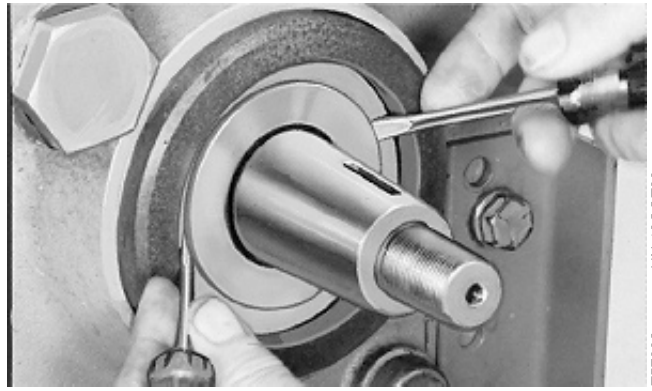
6. Remove snap ring (1).



T58,0360,6029BC-19-10APR85

**IMPORTANT: Protect all lapped surfaces with clean paper towels, to avoid nicks and scratches.**

7. Remove seal retainer, stationary seal and springs using two screw drivers. Be careful not to damage lapped surfaces.



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T58,0360,6029BD-19-10APR85

0360  
10

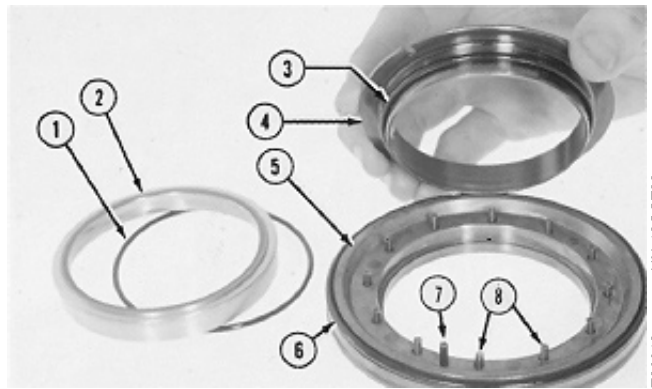
8. Remove rotating seal using notched wooden dowels.

Wrap rotating seal (4) and stationary seal (3) in clean paper towels to protect lapped surfaces.

- 1—O-Ring
- 2—Rotating Seal
- 3—O-Ring
- 4—Stationary Seal
- 5—Seal Retainer
- 6—O-Ring
- 7—Groove Pin
- 8—Spring (6 used)



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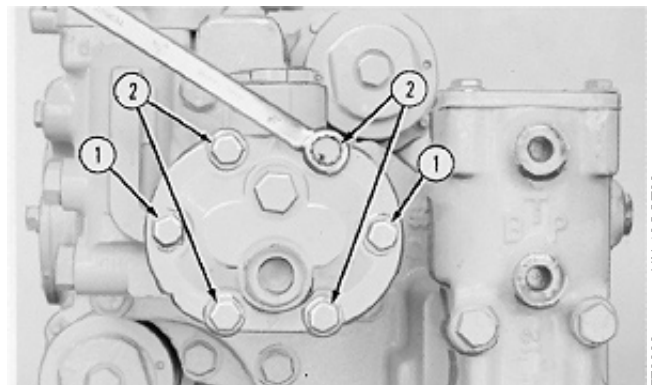


T80019 -JUN-18OCT88

T58,0360,6107BH-19-25MAR86

**IMPORTANT: DO NOT remove cap screws (1) that hold charge pump sections together.**

9. Serial No. ( -731273)—Remove four cap screws and washers (2).



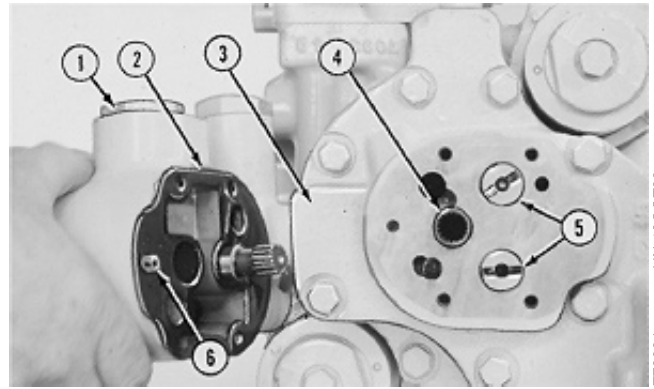
T79393 -JUN-18OCT88

T58,0360,6029BG-19-10APR85

10. If necessary, lightly hit the charge pump (1) with a soft-face hammer to overcome friction of spring pins (6).

11. Serial No. ( -731273)—Remove charge pump and gasket (2). (For repair, see Disassemble and Assemble Charge Pump in this group.)

- 1—Charge Pump
- 2—Gasket
- 3—Pump End Cap
- 4—Pump Shaft Coupling
- 5—Check Valve (2 used)
- 6—Spring Pin (2 used)



T58,0360,6029BH-19-10APR85

T79394 -UN-18OCT88

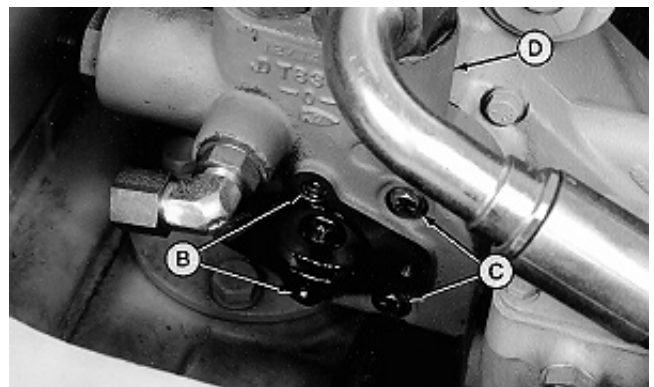
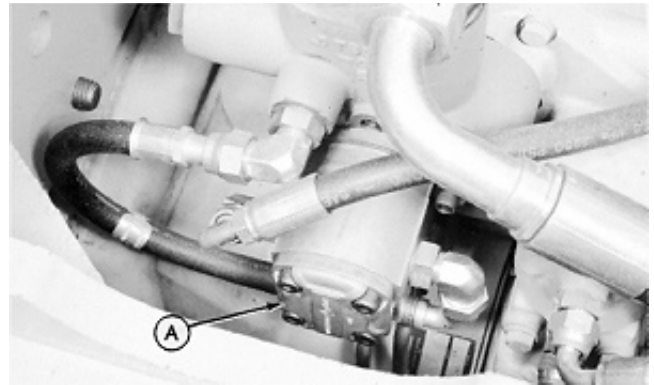
*NOTE: Hydrostatic pump shown installed in machine.*

12. Serial No. (731274— )—Remove control pump (A) from left hydrostatic pump. (Refer to procedure in this group.)

Remove screws (B and C) to remove relief valve housing and gasket (D) from left hydrostatic pump. (For repair, see Disassemble and Assemble Neutral Charge Relief Valve Housing in this Group.)

3. Serial No. (731274— )—For right hydrostatic pump, remove transmission oil filter housing. (See procedure in this group.)

- A—Control Pump
- B—Socket Head Screw (2 used)
- C—Cap Screw and Washer (2 used)
- D—Neutral Charge Relief Valve Housing and Gasket



TX,0360,BD1426 -19-10MAY94

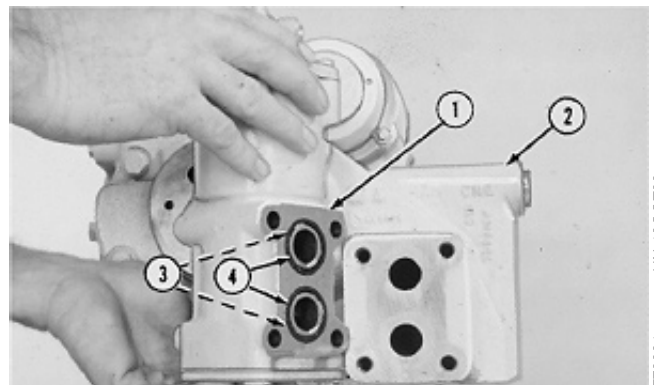
T82144A -UN-04APR94

T82144B -UN-26APR94

14. Remove four cap screws and washers to remove bypass valve (1) from end cap (2). (For repair, see Disassemble and Assemble Bypass Valve in this group.)

*NOTE: Beginning with Serial No. 731274, O-rings (3) and back-up washers (4) are replaced by square packings.*

- 1—Bypass Valve
- 2—Pump End Cap
- 3—O-Ring (2 used)
- 4—Backup Washer (2 used)



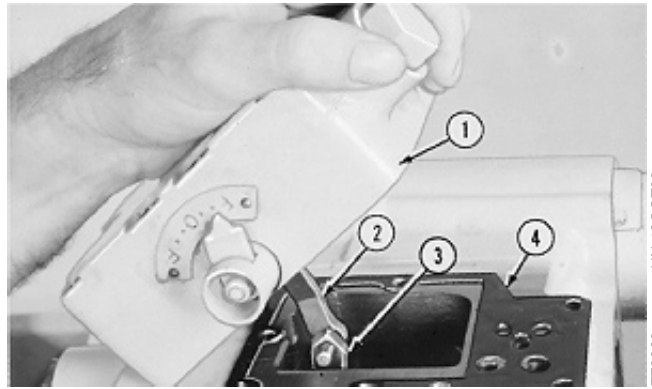
TX,0360,RP8 -19-23MAR89

T79391 -UN-18OCT88

15. Remove eight cap screws and washers from pump displacement control valve (1).

16. To remove pump displacement control valve (PDCV) (1), lift valve from pump housing and slide feedback arm (2) from swashplate control link (3). (For repair, see Disassemble Pump Displacement Control Valve (PDCV) in this group.)

- 1—Pump Displacement Control Valve (PDCV)
- 2—Feedback Arm
- 3—Swashplate Feedback Link
- 4—Gasket



T79366 -UN-18OCT88

0360  
12

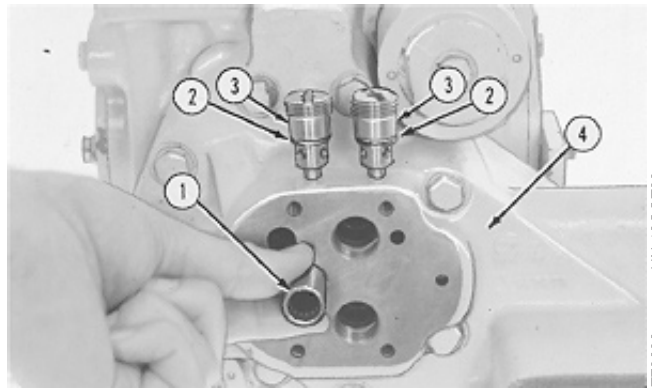
TX,0360,DU1029 -19-03AUG93

17. Remove check valves (3) with O-rings (2).

18. Check the condition of check valves. Put diesel fuel in slotted end of both check valves. If diesel fuel flows through either check valve in approximately 5 seconds, replace both check valves.

**IMPORTANT: If one check valve must be replaced, always replace both check valves.**

- 1—Pump Shaft Coupling
- 2—O-Ring (2 Used)
- 3—Check Valve (2 Used)
- 4—Pump End Cap



T79366 -UN-18OCT88

TX,0360,DU1227 -19-30SEP93

**NOTE:** The pump end caps for the left and right transmissions are different.

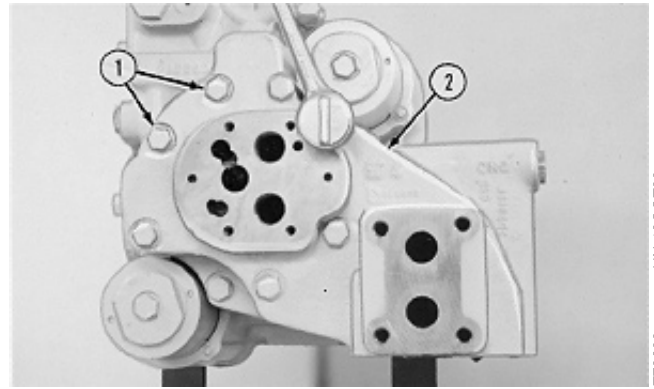
The right pump end cap is two piece. The two sections do not have to be separated unless the seals are bad.

19. For right pump, remove plug with O-ring to remove hidden cap screw.

20. Remove cap screws and washers (1) from end cap (2).

21. Remove end cap. It may be necessary to lightly hit end cap to break gasket seal.

22. Check the number of pump end cap gaskets used. Install the same number during assembly **ONLY** if pump end cap, housing, front cover, pump shaft or front and rear bearings are not replaced.



T79698 -JUN-18OCT88

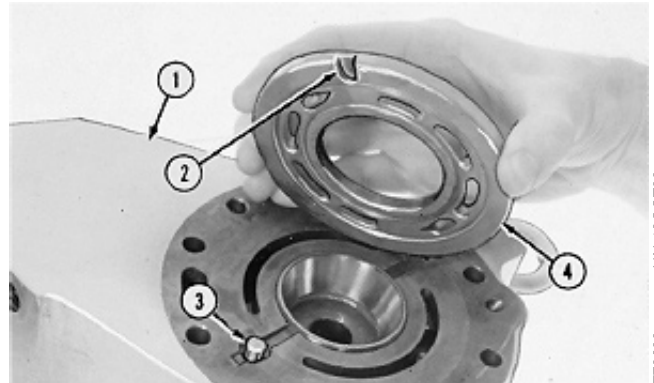
0360  
13

T58,0360,6107BI-19-04APR94

23. Remove valve plate (4). If necessary, pry with a wooden dowel at dowel pin groove (2) to loosen valve plate.

**NOTE:** Valve plate can be stuck to bearing plate. If so, spray diesel fuel between valve plate and bearing plate to break suction between parts.

- 1—Pump End Cap
- 2—Dowel Pin Groove
- 3—Dowel Pin
- 4—Valve Plate



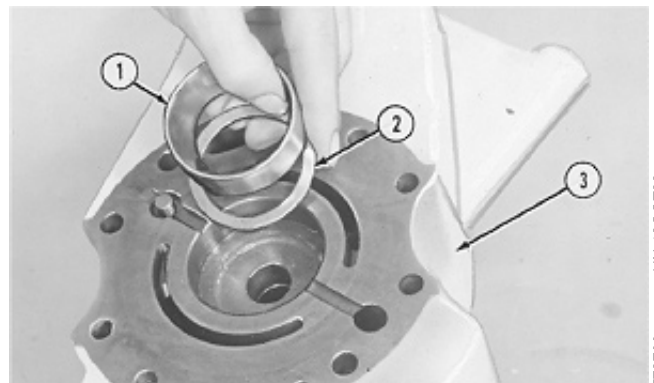
T79699 -JUN-18OCT88

TX,0360,DU1228 -19-03AUG93

24. If necessary, remove rear bearing cup (1) and shims (2).

Record the number of shims used.

- 1—Rear Bearing Cup
- 2—Shims
- 3—End Cap



T79700 -JUN-18OCT88

TX,0360,DU1229 -19-03AUG93



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