

1—Plug (8 used)
2-O-Ring (8 used)
3—Inlet Valve (8 used)
4—Housing
5—Pump Piston (8 used)
6-Spring (8 used)
7—Sheath (8 used)
8—O-Ring (8 used)
9—Piston Plug (8 used)
10—Seat (8 used)

11-Discharge Valve (8 used) 20-Race 12—Spring 21--Сопе 13-Guide 22-Bearing Cup 14-Stop 23--\$him —Discharge Valve -Cap Screw 16-Spacer 25-O-Ring 17—Thrust Washer 26-Plug -Pump Shaft 27-Quad Packing 19-Roller Bearing 28-Oil Seal 29-Snap Ring

Fig. 35-Exploded View of 3.0 Cu. In. Main Pump

NOTE: On 4.0 cu. in.-pumps two additional spacers are used between the thrust washers and race.

cam. Install needle bearings.

IMPORTANT: Use ONLY John Deere Hy-Gard

4. Place needle bearing race (B, Fig. 34) over shaft

IMPORTANT: Use ONLY John Deere Hy-Gard Transmission and Hydraulic Oil on needle bearings.

- 5. Install remaining spacer(s), thrust washer, and roller bearing.
 - 6. Install pump shaft assembly in pump housing.
- 7. Place stroke control valve housing assembly with adjusting shims on pump housing. Tighten cap screws to 85 ft-lbs (115 Nm) (11.5 kgm).
- 8. Check for 0.001-0.003 in. (0.03-0.08 mm) pump shaft end play as instructed earlier in this Group.
 - 9. Add or deduct shims to obtain correct end play.
- Install piston assemblies being sure proper piston goes back into its respective bore.
- 11. Torque piston plugs to 100 ft-lbs (136 Nm) (13.6 kgm).