protect the hydraulic pump (52)[a] from high pressure. When the relief valve (35) is not open the fluid flow goes out the power-beyond port (26) to the front auxiliary valve (9). The hydraulic pump (52)[b] is protected from high pressure by the relief valve (12). With the selective valve (13) energized the fluid joins the fluid from the front auxiliary valve (9) and goes to the high flow quick couplers (17). Return fluid goes back to the front auxiliary valve (9) and to the hydraulic filter (36).

853H HYDRAULIC PRESSURE CHECK

NOTE: All flow and pressure checks to be made with the engine running at 2750-2850 RPM.

1. Lift and block the loader.

2. To check the hydraulic pump (52)[a] and main relief valve (35), connect the hydraulic tester to the quick couplers (16) or (17).

3. Engage the front auxiliary electrical switch.

4. The free flow should be 18.0 GPM (68,1 L/min.). When the free flow is restricted, the flow will drop to "0" GPM and the main relief valve (35) pressure should be 2550-2600 PSI (17582-17927 kPa). If not, adjust the main relief valve (35). If the relief valve can not be adjusted, do a direct check on the hydraulic pump (52)[a].

5. While the hydraulic tester is connected to the quick couplers (16) or (17), check the high flow relief valve (32) as follows:
   a. Disconnect the electric solenoid (13).
   b. Engage the high flow electrical switch.
   c. Repeat Step 3 & 4, but relief valve pressure should be 3250-3350 PSI (22409-23098 kPa). If not, adjust the relief valve (32).

6. To check the hydraulic pump (52)[b] and high flow relief valve (12), connect the hydraulic tester as follows:
   a. Connect the hydraulic tester inlet to the small female coupler (16) and the outlet to the case drain quick coupler (15).
   b. Disconnect the two electrical solenoids (11).
   c. Reconnect the electric solenoid (13).

7. Engage the high flow electrical switch.

8. The free flow should be 6.0 GPM (22,7 L/min.). When the free flow is restricted, the flow will drop to "0" GPM and the high flow main relief (12) should be 3250-3350 PSI (22409-23098 kPa). If not, adjust the relief valve (12). If the relief valve can not be adjusted, do a direct check on the hydraulic pump (52)[b].