



# HYDRAULIC / HYDROSTATIC SYSTEM OPERATIONS

## To Be Used With HYDRAULIC / HYDROSTATIC FLOW CHART

For Model  
**853H**

Chart #6720956 (Printed March 2003)

### CHART LEGEND

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|--|---|
| 1 RESERVOIR, Cap.: . . . 15.5 Qts. (14,7 L)  | 30 LOAD CHECK VALVE (2)   |
| 2 BREATHER, . . . . . 5 Micron   | 31 RESTRICTOR   |
| 3 FILL CAP   | 32 RELIEF VALVE (HIGH FLOW)<br>3250-3350 PSI (22409-23098 kPa)  |
| 4 SCREEN, . . . . . 60 Mesh  | 33 PORT RELIEF, . . 3500 PSI (24132 kPa)  |
| 5 REAR AUXILIARY QUICK COUPLERS<br>(OPTIONAL)  | 34 ELECTRICAL SOLENOID VALVE  |
| 6 CHECK VALVE, . . . . . 225-290 PSI<br>(1551-2000 kPa)                                  | 35 MAIN RELIEF VALVE, . . 2550-2600 PSI<br>(17582-17927 kPa)  |
| 7 HYDROSTATIC MOTOR  | 36 HYDRAULIC FILTER, . . . . . #4 Media   |
| 8 PORT RELIEF VALVE (OPTIONAL)<br>2550-2600 PSI (17582-17927 kPa)                        | 37 CHECK VALVE, . . . . . 1 PSI (7 kPa)   |
| 9 FRONT AUXILIARY VALVE  | 38 DIFFERENTIAL PRESSURE SWITCH<br>(Normally Closed) 36-44 PSI<br>(248-303 kPa)   |
| 10 OPEN CHECK PILOT VALVE (OPTIONAL)<br>30 PSI (207 kPa)                                 | 39 BY-PASS VALVE, . . . . . 44-55 PSI<br>(310-379 kPa)  |
| 11 ELECTRICAL VALVE SOLENOIDS  | 40 CHARGE FILTER, . . . . . #4Media   |
| 12 RELIEF VALVE (HIGH FLOW)<br>3250-3350 PSI (22409-23098 kPa)<br>@ 18 GPM (68,1 L/min.) | 41 FLUID TEMPERATURE SENSOR   |
| 13 ELECTRICAL SELECTIVE VALVE  | 42 LOCK VALVE (OPTIONAL)  |
| 14 CHECK VALVE   | 43 PORT BLOCK   |
| 15 CASE DRAIN COUPLER  | 44 COLD OIL BY-PASS VALVE, . . . 85 PSI<br>(586 kPa)  |
| 16 FRONT AUXILIARY QUICK COUPLERS  | 45 HYDROSTATIC PUMP   |
| 17 HIGH FLOW QUICK COUPLERS  | 46 DISPLACEMENT CONTROL VALVE   |
| 18 SIDE SHIFT QUICK COUPLERS   | 47 CHARGE PRESSURE SENSOR   |
| 19 TILT CYLINDER   | 48 CHARGE RELIEF VALVE<br>100° F. (38° C.) Fluid @ Full RPM<br>Neutral 310-330 PSI (2137-2275 kPa)<br>Stroked 300-320 PSI (2069-2206 kPa) |
| 20 LIFT CYLINDER   | 49 HIGH PRESSURE RELIEF/REPLENISHING<br>VALVE, . . . . . 5000 PSI (34475 kPa)   |
| 21 BUCKET POSITION VALVE   | 50 CHARGE PUMP, 11.0 GPM (41,6 L/min.)  |
| 22 FLOW ADJUSTMENT VALVE   | 51 TOW VALVES   |
| 23 FLOW CONTROL SPOOL  | 52 HYDRAULIC PUMP, . . . @ 2750 RPM<br>@ 1150 PSI (7929 kPa)<br>a. 18.0 GPM (68,1 L/min.)<br>b. 6.0 GPM (22,7 L/min.)                     |
| 24 CHECK VALVE   | 53 OIL COOLER   |
| 25 UN-LOADING SPOOL/PRESS. RELIEF<br>VALVE   |   |
| 26 CONTROL VALVE POWER-BEYOND<br>OUTLET  |   |
| 27 AUXILIARY ELECTRICAL SOLENOIDS  |   |
| 28 ANTI-CAVITATION VALVE   |   |
| 29 HYDRAULIC CONTROL VALVE   |   |