

HYDRAULIC/HYDROSTATIC SCHEMATIC  
 HI-FLOW MACHINE  
 853 (S/N 512811001-15999 WITH JEM AUXILIARY VALVE)

(Printed June 1999)

MC2399LU

LEGEND

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| <p>① RESERVOIR:<br/>Capacity . . . 16.0 Qts (15,1 L)</p> <p>② SPRING LOADED FILTER BYPASS VALVE: 45-55 PSI (311-379 kPa)</p> <p>③ DIFFERENTIAL PRESSURE SWITCH: 36-44 PSI (248-303 kPa)<br/>Standard Loader - Normally Open<br/>B.O.S.S. Loader - Normally Closed</p> <p>④ CHECK VALVE - FILTER</p> <p>⑤ FLOW DIVIDER ADJUSTMENT VALVE</p> <p>⑥ PILOT ACTIVATED DIRECTIONAL CONTROL VALVE - FLOW CONTROL SPOOL</p> <p>⑦ PILOT ACTIVATED DIRECTIONAL CONTROL VALVE - UNLOADING SPOOL</p> <p>⑧ RELIEF VALVE - PORT: (OPTIONAL)<br/>2500 PSI (17238 kPa)</p> <p>⑨ SOLENOID ACTIVATED DIRECTIONAL CONTROL VALVE - AUXILIARY</p> <p>⑩ CHECK VALVE - BUCKET POSITION VALVE</p> <p>⑪ RELIEF/ANTICAVITATION VALVE - PORT (TILT BASE END) (OPTIONAL)<br/>2500 PSI (17238 kPa)</p> | <p>⑫ RELIEF VALVE - PORT:<br/>3500 PSI (24132 kPa)</p> <p>⑬ LOAD CHECK VALVE</p> <p>⑭ ONE WAY RESTRICTOR VALVE</p> <p>⑮ RELIEF VALVE - MAIN:<br/>at Front Quick Couplers<br/>SYSTEM MAIN RELIEF:<br/>2800 PSI (19306 kPa)<br/>HI FLOW MAIN RELIEF:<br/>3300 PSI (22754 kPa)</p> <p>⑯ SHUTTLE RELIEF VALVE:<br/>290 PSI (2000 kPa)</p> <p>⑰ DRIVE MOTOR SHUTTLE VALVE</p> <p>⑱ TOW VALVE</p> <p>⑲ RELIEF/REPLENISHING VALVE - HIGH PRESSURE:<br/>STANDARD . 4350 PSI (29990 kPa)<br/>OPTIONAL . 5000 PSI (34475 kPa)</p> <p>⑳ DISPLACEMENT CONTROL VALVE</p> <p>㉑ AUXILIARY HYDRAULIC PUMP:<br/>6.0 GPM (22,7 L/ min.)<br/>at 2750 RPM<br/>at 1150 PSI (7929 kPa)</p> <p>㉒ HYDRAULIC PUMP . . . Gear Type<br/>PUMP CAPACITY:<br/>18.0 GPM (68,1 L/min.)<br/>HI FLOW CAPACITY: (Includes ㉓)<br/>24.0 GPM (90,8 L/ min.)<br/>at 2750 RPM<br/>at 1150 PSI (7929 kPa)</p> | <p>㉓ CHARGE PUMP . 14.0-15.0 GPM (52,9-56,7 L/ min.) at 2700 RPM</p> <p>㉔ FILTER</p> <p>㉕ RELIEF VALVE - CHARGE:<br/>140°F. (60°C.) Fluid at Full RPM<br/>Neutral . . . . 310-330 PSI (2137-2275 kPa)<br/>Stroked . . . . 300-320 PSI (2069-2206 kPa)</p> <p>㉖ MUFFLER (If Equipped)</p> <p>㉗ CHARGE PRESSURE SENSOR</p> <p>㉘ FLUID TEMPERATURE SENSOR</p> <p>㉙ PILOT TO OPEN CHECK VALVE</p> <p>㉚ SOLENOID ACTIVATED DIRECTIONAL CONTROL VALVE - FRONT AUXILIARY</p> <p>㉛ RELIEF VALVE - MAIN HIGH FLOW<br/>3000 PSI (20685 kPa)</p> <p>㉜ RESTRICTION</p> <p>㉝ SOLENOID ACTIVATED DIRECTIONAL CONTROL VALVE</p> <p>㉞ SOLENOID ACTIVATED DIRECTIONAL CONTROL VALVE (TWO COIL)</p> <p>㉟ FILTER - HYDROSTATIC (CANISTER)</p> <p>㊱ FILTER - HYDRAULIC (CANISTER)</p> <p>㊲ COLD OIL BYPASS VALVE</p> | <p>㊳ FIXED CAPACITY DISPLACEMENT BIDIRECTIONAL HYDROSTATIC MOTOR</p> <p>㊴ ANTICAVITATION VALVE</p> <p>㊵ FILTER</p> |
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NOTE: Unless otherwise specified springs have NO significant pressure value.