HYDRAULIC/HYDROSTATIC SCHEMATIC

S130 (S/N 529211001 & Above)

(S/N 529611001 & Above)

(S/N A1Z711001 & Above)

(S/N A8KA11001 & Above)

(S/N A84W11001 & Above)

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LEGEND

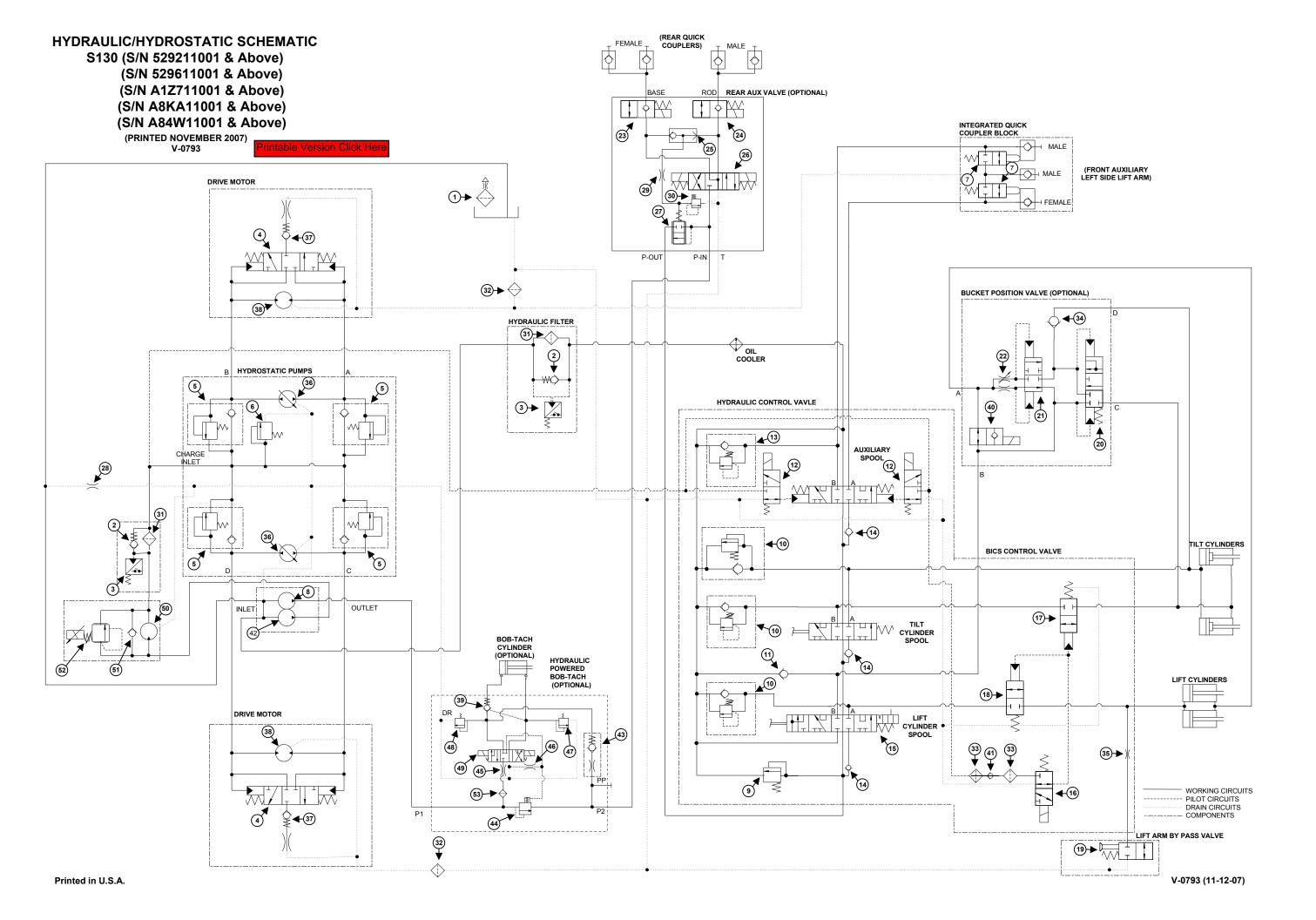
- (1) RESERVOIR: Capacity 14.0 Qts. (13,25 L)
- 2 SPRING LOADED FILTER BY-PASS VALVE: 45-55 PSI (3,1-3,8 Bar)
- 3 DIFFERENTIAL PRESSURE SWITCH: 36-44 PSI (2,5-3,0 Bar) Normally Closed
- 4) DRIVE MOTOR SHUTTLE VALVE
- 5 RELIEF/REPLENISHING VALVE HIGH PRESSURE: 5000 PSI (345 Bar)
- 6 RELIEF VALVE CHARGE INLET: 360 PSI (24,8 Bar) at High Engine Idle With 140 degrees F. (60 degrees C.) Fluid
- 7 FRONT AUXILIARY MANUAL PRESSURE BLEED-OFF VALVE
- 8 HYDRAULIC PUMP Gear Type 16.9 GPM (64 L/min.) at High Engine Idle
- 9 RELIEF VALVE MAIN: 2650-2750 PSI (183-190 Bar) at Front Quick Couplers
- RELIEF/ANTICAVITATION VALVE PORT 3500 PSI (241,3 Bar)
- (11) ANTICAVITATION VALVE
- SOLENOID ACTIVATED DIRECTIONAL CONTROL VALVE AUXILIARY
- RELIEF/ANTICAVITATION VALVE PORT (OPTIONAL) 3500 PSI (241,3 Bar)
- 14) LOAD CHECK VALVE

- (15) LIFT CYLINDER SPOOL MADE TO RESTRICT FLOW DURING BOOM DOWN BUT NOT DURING BOOM UP
- (16) SOLENOID ACTIVATED DIRECTIONAL CONTROL VALVE BICS CONTROL
- PILOTED ACTIVATED DIRECTIONAL CONTROL VALVE TILT CONTROL
- PILOTED ACTIVATED DIRECTIONAL CONTROL VALVE LIFT CONTROL
- 19 PULL BUTTON ACTIVATED
 DIRECTIONAL CONTROL VALVE LIFT
 ARM BY-PASS
- 20 PILOTED ACTIVATED DIRECTIONAL CONTROL VALVE UNLOADING SPOOL
- 21) PILOTED ACTIVATED DIRECTIONAL CONTROL VALVE FLOW CONTROL SPOOL
- (22) FLOW DIVIDER ADJUSTMENT VALVE
- SOLENOID ACTIVATED DIRECTIONAL CONTROL VALVE BASE
- SOLENOID ACTIVATED DIRECTIONAL CONTROL VALVE ROD
- (25) LOAD SHUTTLE VALVE BLEED OFF
- SOLENOID ACTIVATED DIRECTIONAL CONTROL VALVE TWO COIL
- PILOT ACTIVATED DIRECTIONAL CONTROL VALVE REAR AUXILIARY
- (28) RESTRICTION 0.343 inch (8,73 mm)
- (29) RESTRICTOR 0.031 inch (0,8 mm)

- (30) RELIEF VALVE: 3300 PSI (228 Bar)
- (31) FILTER HYDRAULIC (CANISTER)
- FILTER CASE DRAIN (SINTERED BRONZE)
- FILTER BICS CONTROL VALVE (SCREEN)
- CHECK VALVE BUCKET POSITION VALVE
- (35) RESTRICTION
- VARIABLE CAPACITY DISPLACEMENT BIDIRECTIONAL HYDROSTATIC PUMP
- (Not Adjustable Factory Set) 65 PSI (4,5 Bar)
- (38) FIXED CAPACITY DISPLACEMENT BIDIRECTIONAL HYDROSTATIC MOTOR
- (39) CHECK VALVE With 80 PSI (5,5 Bar) Spring
- SOLENOID ACTIVATED DIRECTIONAL CONTROL VALVE BUCKET POSITION VALVE (ON/OFF)
- (41) CHECK VALVE BICS CONTROL VALVE
- CHARGE PUMP 12.8 GPM (48,5 L/min) at High Engine Idle
- CHECK VALVE With 300 PSI (20,7 Bar) Spring And With 0.016 inch (0,40 mm) Orifice

- PILOT ACTIVATED DIRECTIONAL CONTROL VALVE HYDRAULIC POWERED BOB-TACH
- (45) RESTRICTION 0.089 inch (2,26 mm)
- **46)** RESTRICTION 0.025 inch (0,6 mm)
- (47) RELIEF VALVE 2000 PSI (137 Bar)
- (48) RELIEF VALVE 1200 PSI (83 Bar)
- SOLENOID ACTIVATED DIRECTIONAL CONTROL VALVE (TWO COIL)
- FIXED CAPACITY DISPLACEMENT HYDRAULIC MOTOR
- (51) ANTICAVITATION VALVE
- (Fan Speed Regulator): 1566 - 1784 PSI (108 - 123 bar)
- 53) FILTER BOB-TACH VALVE

NOTE: Unless otherwise specified springs have NO significant pressure value.



HYDRAULIC/HYDROSTATIC SCHEMATIC WITH SJC OPTION

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(S/N 529611001 & Above)

(S/N A1Z711001 & Above)

(S/N A8KA11001 & Above)

(S/N A84W11001 & Above)

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- RESERVOIR: Capacity 14.0 qt. (13,2 L)
- 2 SPRING LOADED FILTER BY-PASS VALVE: 45-55 PSI (3,1-3,8 bar)
- 3 DIFFERENTIAL PRESSURE SWITCH: 36-44 PSI (2,5-3,0 bar) Normally Closed
- 4 DRIVE MOTOR SHUTTLE VALVE
- TRELIEF/REPLENISHING VALVE HIGH PRESSURE: 5075 PSI (350 bar)
- 6 RELIEF VALVE CHARGE INLET: 360 PSI (24,8 bar) at High Engine Idle With 140 degrees F. (60 degrees C.) Fluid
- 7 FRONT AUXILIARY MANUAL PRESSURE BLEED-OFF VALVE
- 8 HYDRAULIC PUMP Gear Type 16.9 GPM (64 L/min.) at High Engine Idle
- 9 RELIEF VALVE MAIN: 2650-2750 PSI (183-190 bar) at Front Quick Couplers
- PORT RELIEF/ANTICAVITATION VALVE 3500 PSI (241,3 bar)
- (11) ANTICAVITATION VALVE
- SOLENOID ACTIVATED DIRECTIONAL CONTROL VALVE AUXILIARY
- (13) PORT RELIEF/ANTICAVITATION VALVE:
 (Optional)
 3500 PSI (241,3 bar)
- (14) LOAD CHECK VALVE
- LIFT CYLINDER SPOOL MADE TO RESTRICT FLOW DURING BOOM DOWN BUT NOT DURING BOOM UP

- SOLENOID ACTIVATED DIRECTIONAL CONTROL VALVE BICS CONTROL
- 7 PILOTED ACTIVATED DIRECTIONAL CONTROL VALVE TILT CONTROL
- PILOTED ACTIVATED DIRECTIONAL CONTROL VALVE LIFT CONTROL
- 19 PULL BUTTON ACTIVATED
 DIRECTIONAL CONTROL VALVE LIFT ARM BY-PASS
- PILOTED ACTIVATED DIRECTIONAL CONTROL VALVE UNLOADING SPOOL
- 21 PILOTED ACTIVATED DIRECTIONAL CONTROL VALVE FLOW CONTROL SPOOL
- (22) FLOW DIVIDER ADJUSTMENT VALVE
- SOLENOID ACTIVATED DIRECTIONAL CONTROL VALVE BASE
- SOLENOID ACTIVATED DIRECTIONAL CONTROL VALVE ROD
- (25) LOAD SHUTTLE VALVE BLEED OFF
- 26 SOLENOID ACTIVATED DIRECTIONAL CONTROL VALVE TWO COIL
- PILOT ACTIVATED DIRECTIONAL CONTROL VALVE REAR AUXILIARY
- (28) CHARGE PRESSURE SENSOR
- **(29)** RESTRICTOR 0.031 inch (0,8 mm)
- (30) RELIEF VALVE: 3300 PSI (228 bar)
- (31) FILTER HYDRAULIC (CANISTER)

- FILTER CASE DRAIN (SINTERED BRONZE)
- FILTER BICS CONTROL VALVE (SCREEN)
- CHECK VALVE BUCKET POSITION VALVE
- (35) RESTRICTION
- VARIABLE CAPACITY DISPLACEMENT BI-DIRECTIONAL HYDROSTATIC PUMP
- 37) SHUTTLE RELIEF VALVE
 (Not Adjustable Factory Set)
 65 PSI (4,5 bar)
- (38) FIXED CAPACITY DISPLACEMENT BI-DIRECTIONAL HYDROSTATIC MOTOR
- (39) CHECK VALVE With 80 PSI (5,5 bar) Spring
- SOLENOID ACTIVATED DIRECTIONAL CONTROL VALVE BUCKET POSITION VALVE (ON/OFF)
- (41) CHECK VALVE BICS CONTROL VALVE
- **42)** RESTRICTION 0.343 inch (8,7 mm)
- FILTER Bob-Tach Valve
- PILOT ACTIVATED DIRECTIONAL CONTROL VALVE HYDRAULIC POWERED BOB-TACH
- (45) RESTRICTION 0.089 inch (2,26 mm)
- (46) RESTRICTION 0.025 inch (0,6 mm)

- 47) RELIEF VALVE 2000 PSI (137 bar)
- (48) RELIEF VALVE 1200 PSI (83 bar)
- SOLENOID ACTIVATED DIRECTIONAL CONTROL VALVE (TWO COIL)
- FIXED CAPACITY DISPLACEMENT
 HYDRAULIC MOTOR
- (51) ANTICAVITATION VALVE
- PROPORTIONAL RELIEF VALVE –
 (Fan Speed Regulator):
 1566 1784 PSI (108 123 bar)
- CHARGE PUMP 12.8 GPM (48,5 L/min) at High Engine Idle
- CHECK VALVE With 300 PSI (20,7 bar) Spring with 0.016 inch (0,40 mm) orifice
- (55) SOLENOID ACTIVATED CONTROL VALVE FORWARD/REVERSE
- (56) SERVO PISTON -Swash Plate
- (57) POSITION SENSOR -Swash Plate

NOTE: Unless otherwise specified, springs have NO significant pressure value.

