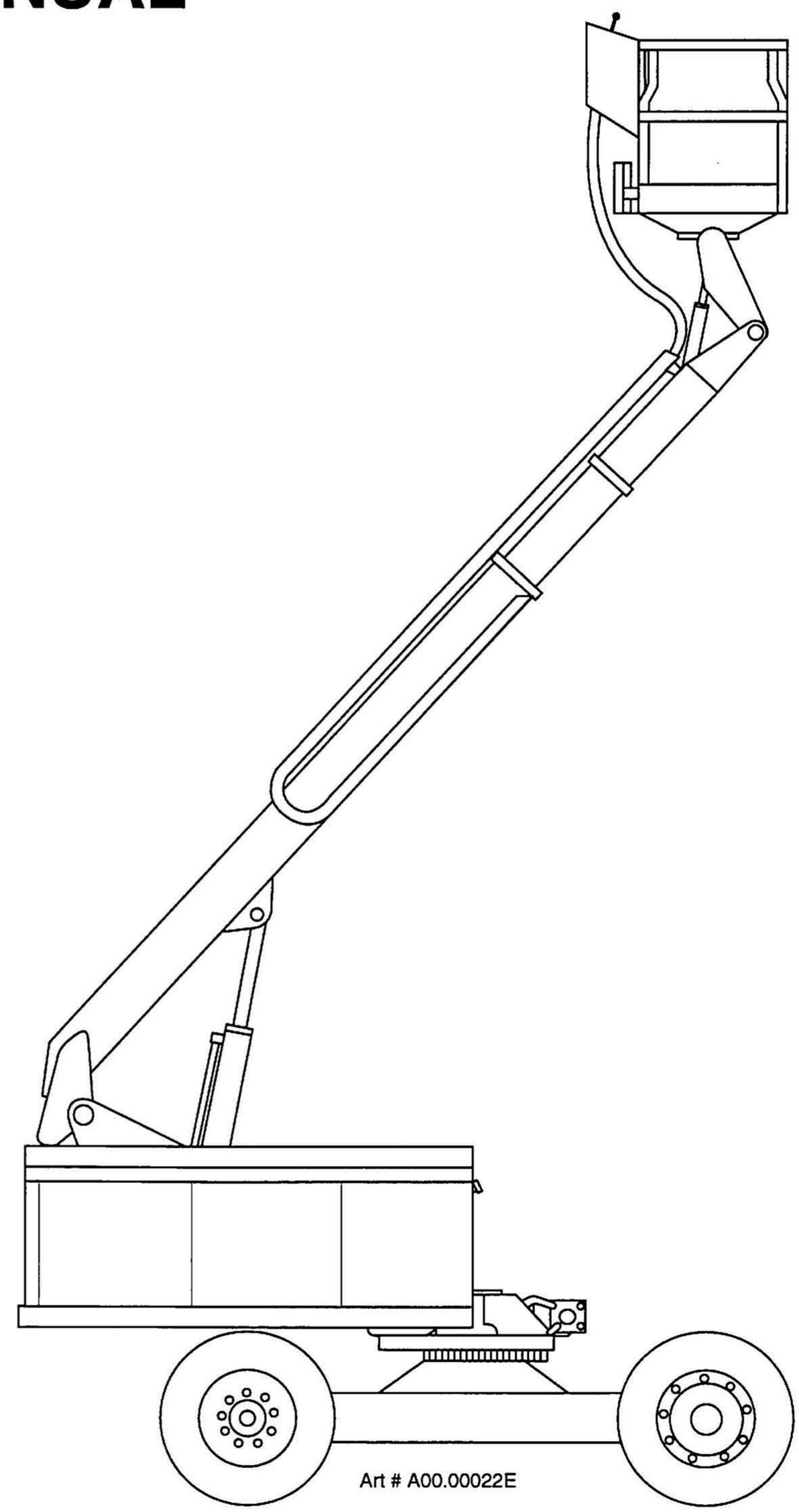
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# SIMON

# SERVICE MANUAL

## MODEL
## MP

## FULL HYDRAULIC



Art # A00.00022E

## PART NO. 89-100107

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| PRESSURE SETTINGS | MP-40 MP-60 | MP-50 | MP-70 MP-80 | MPH-60 MP-60Z | MPH-40 | MPH-42 | MPH-60 |
|---|---|---|---|---|---|---|---|
| MAIN PUMP COMPENSATOR | 2500 PSI | 2300 PSI | 3000 PSI | 3000 PSI | 2300 PSI | 2300 PSI | 2500 PSI |
| EMERGENCY PUMP | 2500 PSI | 2500 PSI | 2500 PSI | 2500 PSI | 2500 PSI | 2500 PSI | 2500 PSI |
| MASTER LEVEL CYLINDER RELIEFS | 3250 PSI | 3250 PSI | 3250 PSI | 3250 PSI | 3250 PSI | 3250 PSI | 3250 PSI |
| BOOM CYLINDER COUNTER BALANCE | 3000 PSI | 5000 PSI | 5000 PSI | 5000 PSI | 5000 PSI | 5000 PSI | 5000 PSI |
| BOOM TELESCOPE COUNTER BALANCE | 3000 PSI | 3000 PSI | 3000 PSI | 3000 PSI | 3000 PSI | 3000 PSI | 3000 PSI |
| SLAVE LEVEL CYLINDER COUNTER BALANCE | 3000 PSI | 3000 PSI | 3000 PSI | 3000 PSI | 3000 PSI | 3000 PSI | 3000 PSI |
| PLATFORM ROTATOR RELIEF | 700 PSI | 700 PSI | 700 PSI | 700 PSI | 700 PSI | 700 PSI | 700 PSI |

STEERING CYLINDER
HYDRAULIC MOTOR BRAKE ASSEMBLY
COUNTER BALANCE VALVE
FLOW CONTROL
FLOW DIVIDER
RELIEF VALVE SET AT 3000 PSI
HYDRAULIC RESERVOIR
MAIN PUMP
EMERGENCY PUMP
10u FILTER
3000 PSI GAUGE
MASTER LEVEL CYLINDER
SWING DRIVE
BOOM HOIST CYLINDER
C2
C1
6:1 PILOT
BOOM EXTEND CYLINDER
SLAVE LEVEL CYLINDER
DRIVE CONTROL
CAB CONTROLS
ROTARY ACTUATOR
HOIST
SWING
EXTEND
LOW SPEED DRIVE
LOWER/UPPER SUPPLY
HIGH SPEED DRIVE
STEER
BOOM HOIST
SWING
BOOM EXTEND
LOWER CONTROL VALVE
1500 PSI
SHUTTLE VALVES
HOSES THRU CATRAC
PRESS
TANK
.021
CAB LEVEL
CAB ROTATE
3 WAY VALVE 2 SPEED DRIVE
AUX
4 5 1 2 3 6

REFERENCE: MP FULL HYDRAULIC 40 THRU 80 2 WHEEL DRIVE 2 SPEED

SIMON-AERIALS INC.
MILWAUKEE, WI. 53224

TITLE: HYDRAULIC SCHEMATIC

REVISION

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