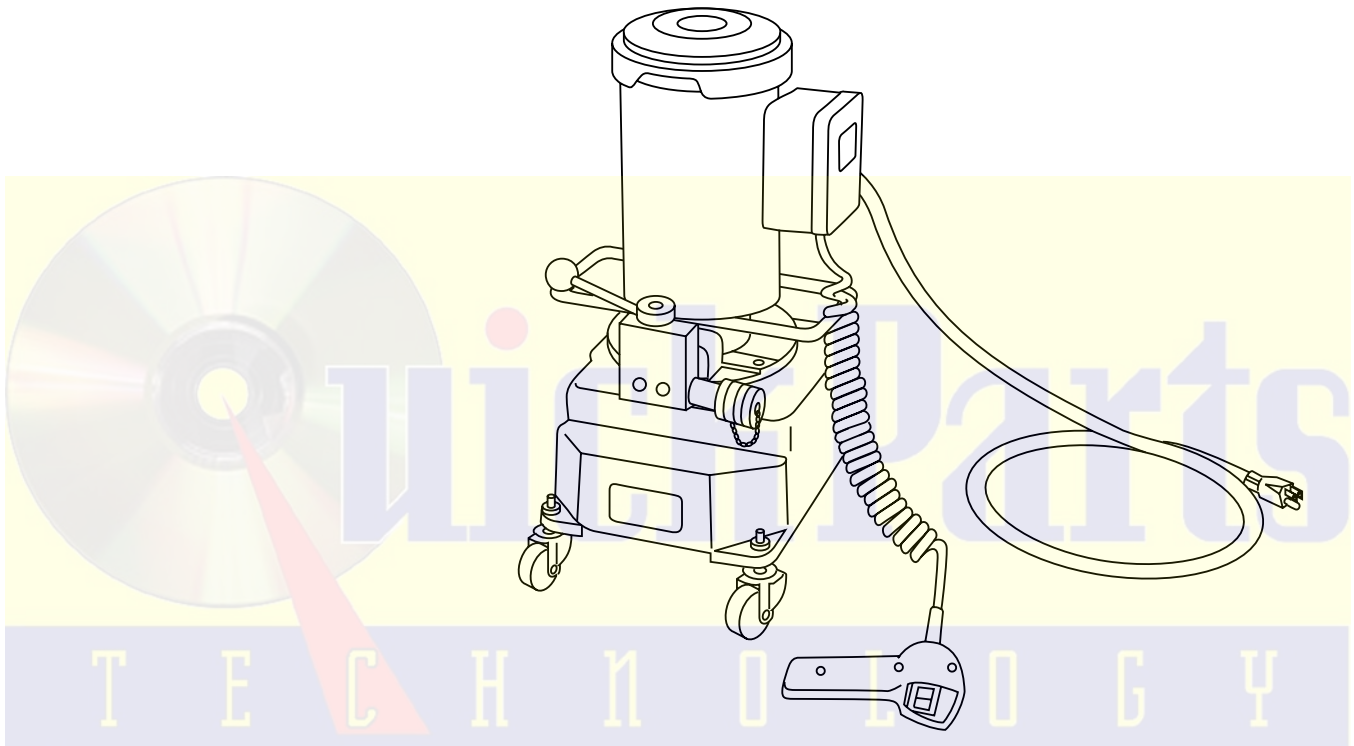


INSTRUCTION MANUAL



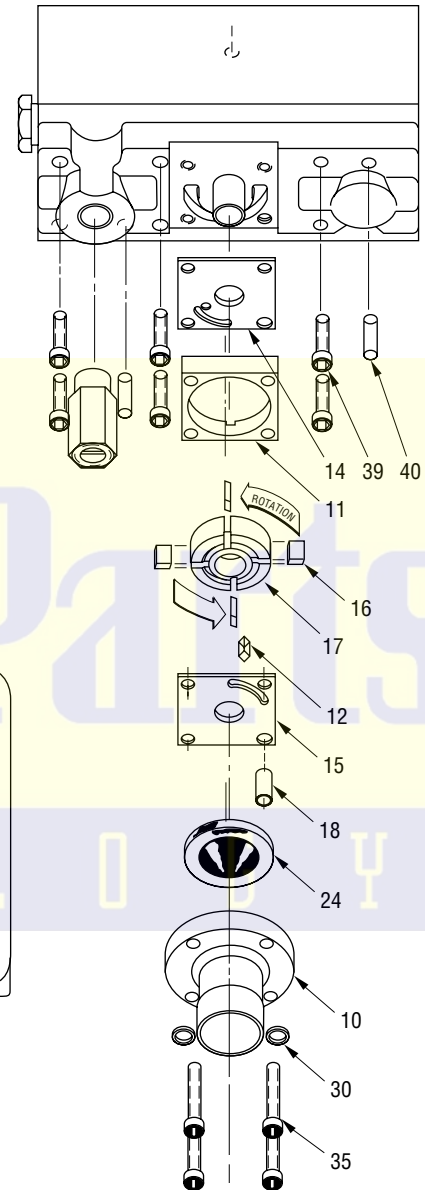
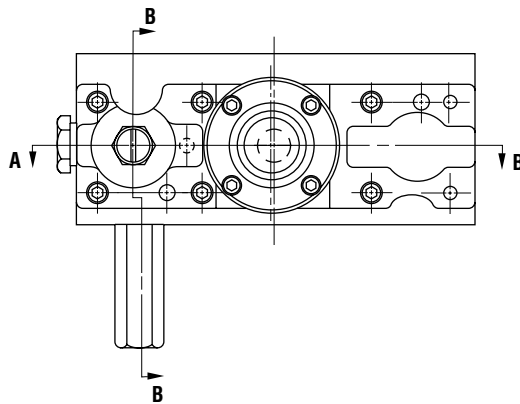
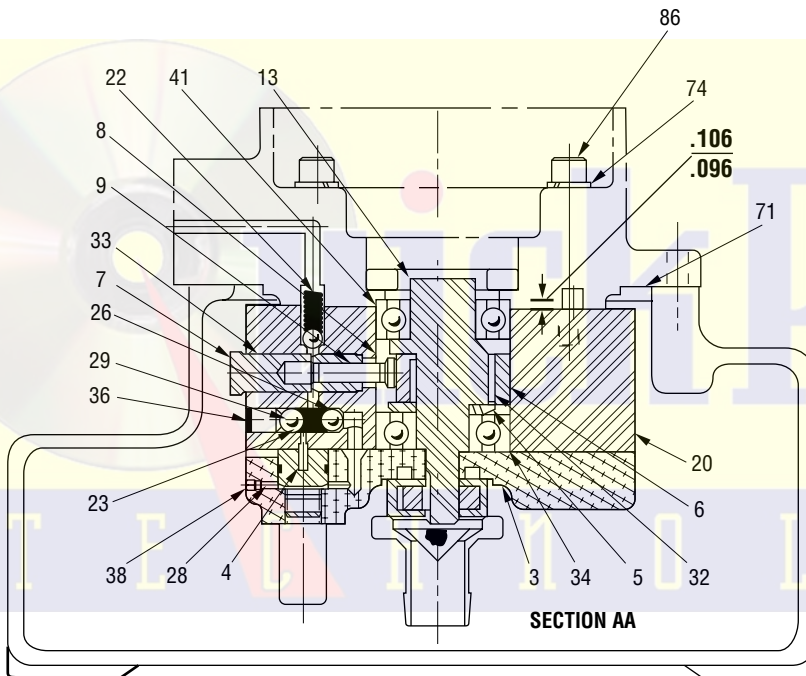
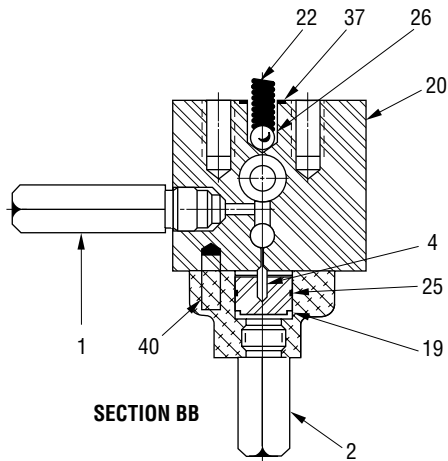
960 PS Series Hydraulic Power Pumps

Beginning with Serial Number KS17000



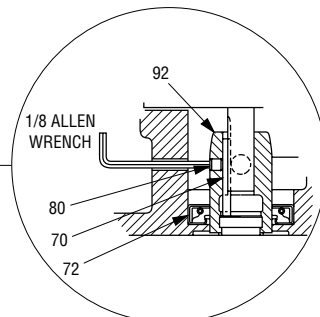
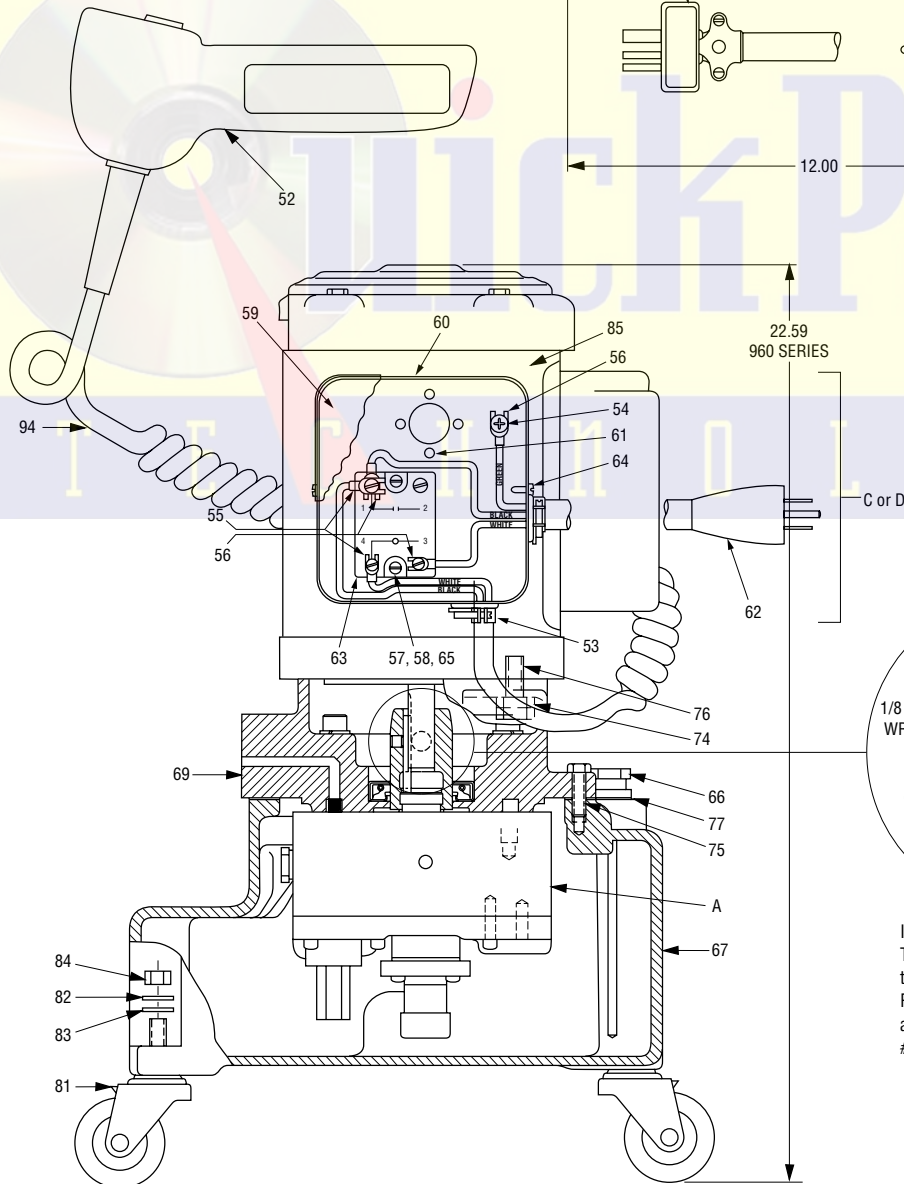
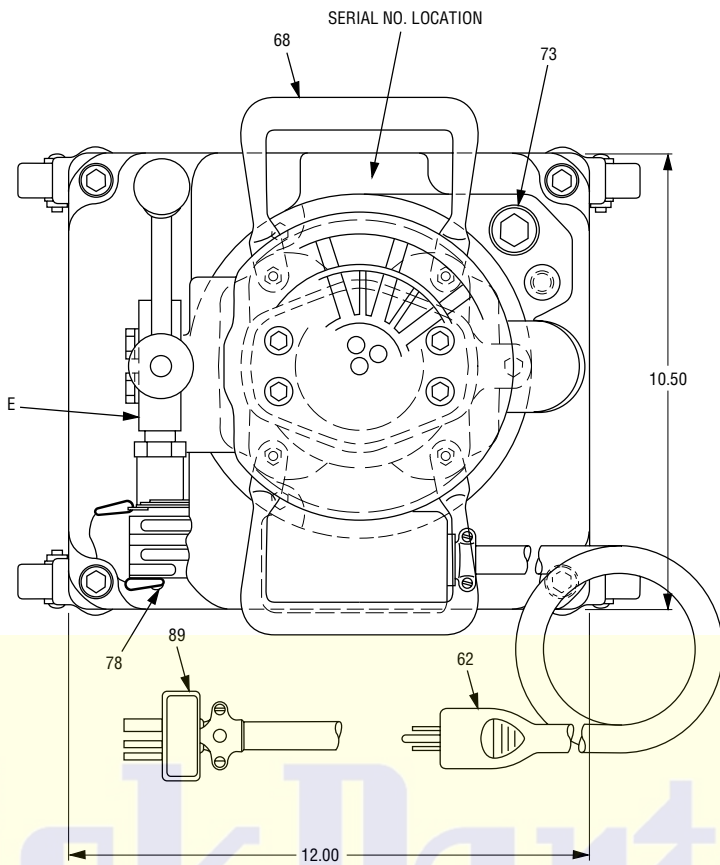
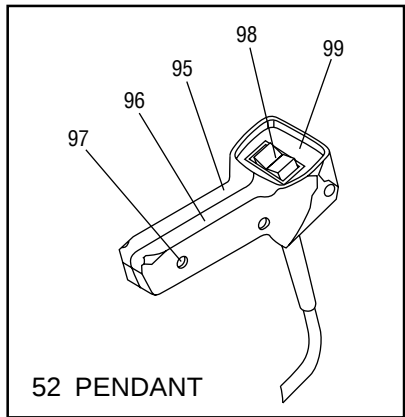
Read and **understand** all of the instructions and safety information in this manual before operating or servicing this tool.

Illustration





Illustration



Item #92 is threaded onto Item #13. To remove, place a long bolt through the hole in the side of the pump block. Rotate the eccentric until the screw acts as a stop. Use a wrench to loosen #92 from #13.

Parts List

960-SA-PS consists of A, C, E, 2, 66–86, and 92

Key	Part No.	Description	Qty
A	501 8236.6	Block unit, pump (includes items 1 and 3–41).....	1
C	502 0721.0	Cord unit, PS power and enclosure with 15-amp plug (includes items 52–65)	1
D	501 8477.6	Cord unit, PSL power and enclosure with 20-amp plug (includes items 52–65 and 89)	1
E	501 5644.6	Single-action valve for -SA series pumps	1
F		Twin-action valve for -TA series pumps	1
		Subplate for TA valve	1
1	500 6067.8	Valve unit, high pressure relief	1
2	501 7766.4	Valve unit, low pressure relief	1
3	501 8194.7	Plate, pump mounting	1
4	500 3493.6	Pin, seal, .125 x .500	1
5	501 8871.2	Spacer, .790 x 1.62 x .187	1
6	501 1855.2	Race, outer	1
7	501 1862.5	Plug, plunger, high pressure	1
8	501 9060.1	Plunger, high pressure	1
9	501 9059.8	Bushing, plunger, high pressure	1
10	502 0424.6	Block, intake	1
11	501 4861.3 **	Plate, pump	1
12	501 4862.1 **	Key, square, .125 x .375	1
13	501 4876.1	Shaft, eccentric	1
14	501 7130.5 **	Plate, top	1
15	501 7131.3 **	Plate, bottom	1
16	501 7135.6 **	Vane, pump	4
17	501 7136.4 **	Rotor	1
18	501 7467.3	Dowel, hollow	1
19	501 8195.5	Plunger, check valve	1
20	501 8237.4	Block, pump	1
22	500 6111.9 *	Spring, compression, .219 x .281 x .875	1
23	501 4865.6 *	Spring, compression, .225 x .281 x .656	1
24	502 1175.7	Screen, intake	1
25	905 0014.8 *	O-ring, 5/8 x 3/4 x 1/16	1
26	905 0436.4 *	Ball, steel, 9/32 diameter	2
28	905 0677.4 *	Ball, steel, 5/32 diameter	1
29	905 0681.2 *	Ball, steel, 3/8 diameter	1
30	905 1526.9	Washer, lock, .172 x .267 x .045 spring	4
32	502 2611.8	Roller, .125 x .750 Torrington (set of 30 rollers)	1
33	905 1524.2 *	O-ring, 1/2 x 5/8 x 1/16	1
34	905 0989.7	Bearing, ball, .787 x 2.04 x .590	1
35	905 0994.3	Screw, cap, #8–32 x 1.25 socket head	4
36	905 1111.5	Screw, set, 7/16–20 x .500 socket head	1
37	905 2817.4 *	O-ring, 7/16 x 9/16 x 1/16	1
38	905 1241.3	Screw, set, #10–32 x .187 socket flat point	1
39	905 1471.8	Screw, cap, #10–32 x .875 socket head	6
40	905 1472.6	Pin, dowel, .250 x .750	2
41	905 1473.4	Bearing, ball, .984 x 2.04 x .590	1
52	503 2363.6	Switch unit, pendant (includes items 94 – 98)	1
53	918 5117.3	Connector, two screw	2
54	905 3194.9	Screw, self-tapping, #10–16 x .250 Phillips head	1
55	918 5287.0	Terminal, flanged fork	2
56	918 5757.0	Terminal, locking fork	3
57	905 0633.2	Nut, hex, #8-32	2

Parts List (cont'd)

Key	Part No.	Description	Qty
58	905 0685.5	Washer, lock, #8	2
59	503 5912.6	Cover, relay enclosure	1
60	503 6049.3	Base, relay enclosure	1
61	905 3281.3	Screw, self-tapping, #10-16 x .625 Phillips head	2
62	918 6074.1	Cord, electric	1
63	918 6403.8	Relay, solid state	1
64	905 2240.0	Screw, self-tapping, #6-20 x .375 Phillips head	2
65	905 1440.8	Screw, machine, #8-32 x .375 round head	2
66	501 5646.2	Dip stick	1
67	501 5695.0	Reservoir	1
68	501 2663.6	Handle, lifting	2
69	501 8292.7	Plate, motor mounting	1
70	501 4852.4	Key, motor shaft (supplied with motor)	1
71	501 5701.9 *	Gasket, reservoir	1
72	905 0320.1 *	Seal, oil, 1.37 x 2.37 x .312	1
73	905 0734.7	Plug, pipe, 3/4, NPTF socket	1
74	905 0506.9	Washer, lock, 3/8	8
75	905 0522.0	Screw, cap, 5/16-18 x 1.00 hex head	3
76	905 0532.8	Screw, cap, 3/8-16 x 1.25 hex head	4
77	905 0387.2 *	O-ring, 7/16 x 5/8 x 3/32	1
78	905 0807.6	Coupler, quick, 3/8" (TAPS model has quantity of 2)	1
80	905 1269.3	Screw, set, 1/4-20 x .250 socket head	1
81	905 1428.9	Caster, swivel	4
82	905 2836.0	Washer, shakeproof, 3/8	8
83	905 1434.3	Washer, flat, 13/32 x 13/16 x 1/16	4
84	905 1435.1	Nut, hex, 3/8-16	4
85		Motor unit (refer to the "Motor Parts List")	1
86	905 1474.2	Screw, cap, 3/8-24 x 2.50 socket head	4
89	918 5558.6	Plug, 3-wire, 125 V, 20 amp	1
92	501 8238.2	Adapter, drive shaft	1
94	503 2362.8	Cord unit	1
95	501 3901.9	Handle, left half	1
96	503 1902.7	Handle, right half	1
97	905 3441.7	Screw, self-tapping, #6-20 x .625 pan head	3
98	918 6189.5	Switch, rocker, single-pole, momentary ON	1
Decals			
99	503 2370.9	Decal, face plate (ON/OFF)	1
	501 2121.9	Decal, Greenlee safety	1
	501 2214.2	Decal, caution	1
	501 5832.5	Decal, arrow	1
	500 7248.6	Decal, extension cord	1
	502 1366.0	Decal, vent caution	1
	502 1395.4	Tag, vent caution	1
	503 4316.5	Decal, read IM	1
	503 5031.5	Decal, nameplate	1
	503 2370.9	Decal, face plate	1
	503 5472.8	Decal, schematic	1
	500 2581.3	Decal, caution	1
	502 2510.3	Decal, caution	1
Repair Kits			
	501 8416.4	Kit, packing repair (includes all items with *)	
	502 0697.4	Kit, vane repair (includes all items with **)	
	503 5476.0	Kit, relay replacement (convert from mechanical relay to solid state relay)	
	501 8443.1	Enclosure, relay (includes 59, 60, and 64)	
	501 8280.3	Caster set	

Motor Parts List

Motors from General Electric, Franklin Electric, and Dayton have been used on this series of pumps.
To identify the motor, refer to the manufacturer's name, part number and description on the motor nameplate.

Motor, 1-1/2 HP @ 3600 RPM, 115/230 VAC, 60 Hz, Single Phase

Greenlee Part No.	G. E. Part No.	Description	Qty
* 918 5300.1	5KC48SG332T	Motor	1
918 5351.6	8753704AZP20	Capacitor	1
918 5356.7	111B277AAP1	Cover, cap	1
918 5726.0	114A882AAGT	Fan	1
918 5361.3	114C922AAP1	Canopy cover, fan	1

Greenlee Part No.	Franklin Part No.	Description	Qty
* 918 5300.1		Motor	1
918 6550.6	275464-132	Capacitor	1
918 6551.4	276856-101	Cover, cap	1
918 6552.2	296114-101	Fan	1
918 6553.0	297673-102	Canopy cover, fan	1

Motor, 1-1/2 HP @ 3600 RPM, 115/230 VAC, 60 Hz, Single Phase

Greenlee Part No.	G. E. Part No.	Description	Qty
918 5466.0	5KC48SG573T	Motor	1
918 5466.0	5KC48SG952T	Motor	1
918 5701.5	111A277P1	Capacitor	1
918 5356.7	111B277AAP1	Cover, cap	1
918 5726.0	114A882AAG7	Fan	1
918 5361.3	114C922AAP1	Canopy cover, fan	1

Greenlee Part No.	Franklin Part No.	Description	Qty
918 5466.0	113007420	Motor	1
918 6550.6	275464-132	Capacitor	1
918 6551.4	276856-101	Cover, cap	1
918 6552.2	296114-101	Fan	1
918 6553.0	297673-102	Canopy cover, fan	1

Motor, 1 HP @ 1800 RPM, 115/230 VAC, 60 Hz, Single Phase

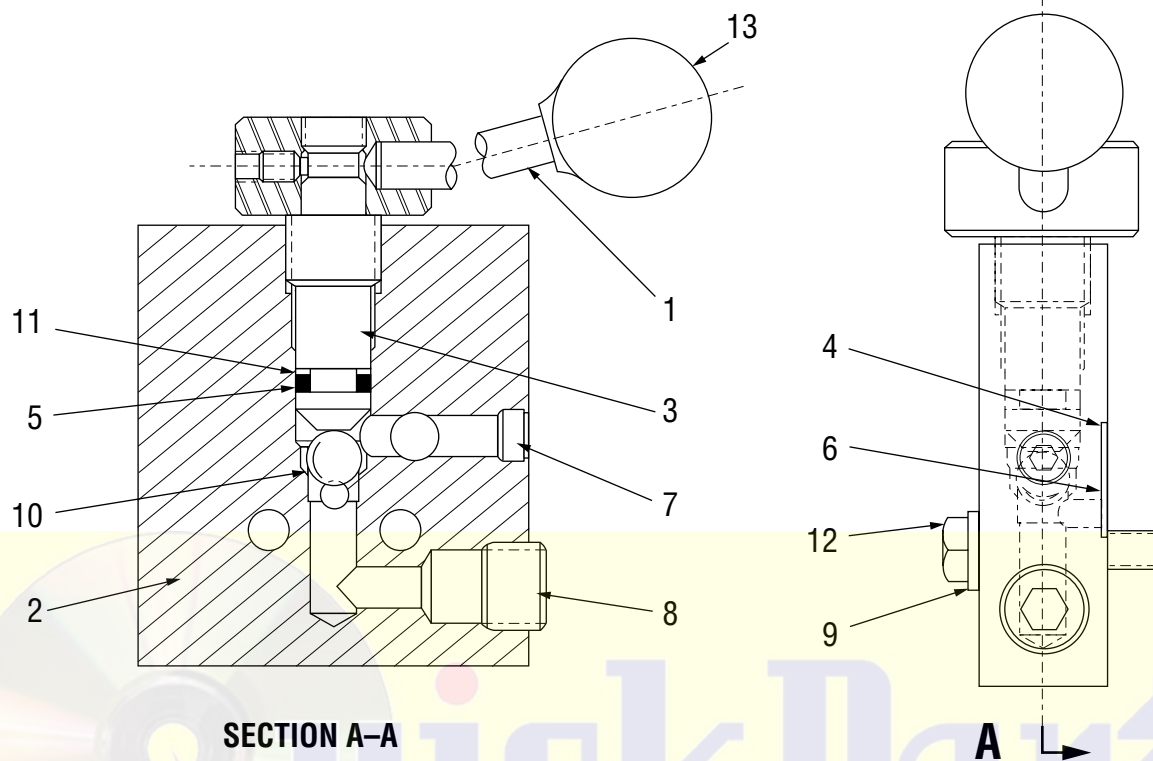
Greenlee Part No.	G. E. Part No.	Description	Qty
918 5183.1	5KC43PG782T	Motor	1
918 5349.4	8753704AX16	Capacitor	1
918 5353.2	118276AAP1	Cover, cap	1
918 5389.3	114A882AAG1	Fan	1
918 5361.3	114C922AAP1	Canopy cover, fan	1

Greenlee Part No.	Franklin Part No.	Description	Qty
918 5183.1	1112050101	Motor	1
918 6518.2	275463-102	Capacitor	1
918 6519.0	290312-101	Cover, cap	1
918 6552.2	296114-101	Fan	1
918 6553.0	297673-420	Canopy cover, fan	1

Greenlee Part No.	Dayton Part No.	Description	Qty
918 5183.1	6K674	Motor	1
918 6039.3	3R505	Capacitor	1
918 6040.7	2R831	Cover, cap	1
918 6041.5	2R901	Canopy cover, fan	1

* 918 5300.1 can be replaced with 918 5466.0 on pendant switch unit.

SA Control Valve



SECTION A-A

Key	Part No.	Description	Qty
1	501 0027.0	Handle unit, control	1
2	501 5645.4	Block, control valve	1
3	501 5705.1	Shaft, control valve	1
4	905 0168.3	O-ring, 3/8 x 1/2 x 1/16	1
5	905 0411.9	O-ring, 3/8 x 9/16 x 3/32	1
6	905 0418.6	O-ring, 1/4 x 3/8 x 1/16	1
7	905 0501.8	Plug, 1/8 pipe	1
8	905 0807.6	Coupler, quick 3/8	2
9	905 0505.0	Washer, lock 5/16 x 9/16 x 1/16	2
10	905 0714.2	Ball, steel 7/16	1
11	905 0747.9	Ring, backup 3/8 x 9/16	1
12	905 1172.7	Screw, hex head cap, 5/16-24 x 1-1/2	2
13	905 0431.3	Knob	1



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