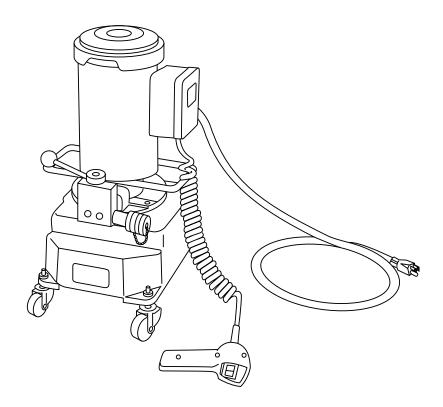
INSTRUCTION MANUAL





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.



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Description

The Greenlee 960 PS Series Hydraulic Pumps are electrically powered, two-stage pumps that develop a maximum of 689.5 bar (10,000 psi). The pumps are intended to provide hydraulic power for an accessory with a single-acting ram (hydraulic cylinder) such as a Greenlee conduit bender or cable cutter.



ACAUTION

Fill unit with hydraulic oil before operating pump.

Failure to fill unit with oil will result in damage to the pump.

Safety

Safety is essential in the use and maintenance of Greenlee tools and equipment. This manual and any markings on the tool provide information for avoiding hazards and unsafe practices related to the use of this tool. Observe all of the safety information provided.

Purpose of this Manual

This manual is intended to familiarize all personnel with the safe operation and maintenance procedures for the following Greenlee tools:

960 PS Series Hydraulic Pumps

Keep this manual available to all personnel.

Replacement manuals are available upon request at no charge.

All specifications are nominal and may change as design improvements occur. Greenlee Textron shall not be liable for damages resulting from misapplication or misuse of its products.

Mobil DTE is a registered trademark of Mobil Oil Corporation.

KEEP THIS MANUAL

IMPORTANT SAFETY INFORMATION



SAFETY ALERT SYMBOL

This symbol is used to call your attention to hazards or unsafe practices which could result in an injury or property damage. The signal word, defined below, indicates the severity of the hazard. The message after the signal word provides information for preventing or avoiding the hazard.

ADANGER

Immediate hazards which, if not avoided, WILL result in severe injury or death.

AWARNING

Hazards which, if not avoided, COULD result in severe injury or death.

ACAUTION

Hazards or unsafe practices which, if not avoided, MAY result in injury or property damage.

ADANGER



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

Failure to observe this warning will result in severe injury or death.

ADANGER

Do not connect the pump to any system or system component other than those supplied by Greenlee. Other manufacturers' components may not withstand the maximum pressure and may fail. Nearby personnel can be injured by flying components and hydraulic oil.

Failure to observe this warning will result in severe injury or death.

ADANGER

Do not alter the internal high-pressure relief valve setting. Altering this setting will change the maximum pressure the pump can develop, which can cause a component failure. Nearby personnel can be injured by flying components and hydraulic oil.

Failure to observe this warning will result in severe injury or death.

ADANGER



Do not use this pump in a hazardous environment. Hazards include flammable liquids, gases, or other materials. Using this pump in a hazardous environment can result in a fire or explosion.

Failure to observe these warnings will result in severe injury or death.



IMPORTANT SAFETY INFORMATION



AWARNING

Electric shock hazard:

- Do not expose power tools to rain.
- Do not immerse the pendant switch in water or other liquid.

Failure to observe these warnings can result in severe injury or death.

ACAUTION

Fill unit with hydraulic oil before operating pump.

Failure to fill unit with oil will result in damage to the pump.

AWARNING

Skin injection hazard:



Oil under pressure easily punctures skin, causing serious injury, gangrene, or death. If injured, seek medical help immediately to remove oil.

- Do not use hands to check for leaks.
- Depressurize the hydraulic system before servicing or disconnecting the hose.

• The pump is heavy and requires two persons to lift. Improper lifting can result in injury.

ACAUTION

• Do not use hose or cord to pull, lift, or carry the equipment. Misuse will damage the hose or cord.

Failure to observe these precautions can result in injury or property damage.

IMPORTANT

Make sure all hose fittings are properly seated before starting the pump. Incomplete connections may not allow the accessory's ram to retract after the hydraulic operation is finished.

AWARNING



Wear eye protection when operating or servicing this tool.

Failure to wear eye protection can result in serious eye injury from flying debris or hydraulic oil.

IMPORTANT

Procedure for depressurizing the hydraulic system:

- Disconnect the pump from the power source.
- Rotate the release lever clockwise.
- 3. Disconnect the hose slowly to release any trapped pressure.

Note: Keep all decals clean and legible, and replace when necessary.

AWARNING

Inspect pump, hoses, couplers, and fittings for wear or damage. Replace worn, damaged, or missing components with Greenlee replacement parts. Worn or damaged components can fail, resulting in injury.

Failure to observe this warning can result in severe injury or death.

Specifications

Capacities	
Pumping Capacity at 6.89 bar (100 psi)	4.92 l/min (300 in ³ /min)
Pumping Capacity at 689 bar (10,000 psi)	0.98 l/min (60 in ³ /min)
Reservoir Capacity	
Usable Oil Volume	5.9 I (6.25 qt)
Duty Cycle	
0 bar to 413.7 bar (0 psi to 6000 psi)	continuous use
413.7 bar to 689.5 bar (6000 psi to 10,000 psi)	intermittent use
(this limitation is for	motor protection only)
Power Source	115 VAC, 60 Hz
Dimensions	
Length	30.5 cm (12")
Width	26.75 cm (10.5")
Height	65 cm (25.5")
Weight/Mass	42 kg (92 lb)
Greenlee Hydraulic Oil (Mobil DTE® 13M)	
Part No. 905 1059.3 / 4016GB	1 gallon
Part No. 905 0806.8 / 4017GB	1 quart

Abbreviations

- SA Single Action Valve, Greenlee Part No. 501 5644.6
- PS Pendant Switch, Greenlee Part No. 503 2363.6
- PSL Pendant Switch, Los Angeles County (specifically wired and labeled to meet the electrical code of Los Angeles County, CA)



Setup

Hydraulic Connection

- 1. Clean all couplers, threaded fittings, and ports.
- Remove any dust plugs from couplers.
- 3. Hand-tighten all couplers firmly. Do not use tools.
- 4. Install hydraulic oil. Refer to the "Specifications" section of this manual to determine the correct type of hydraulic oil.

Electrical Connection



AWARNING

Electric shock hazard:

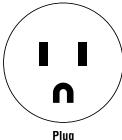
- Do not modify the plug provided with the tool.
- Connect this tool to a grounded receptacle on a 15-amp GFCIprotected circuit.

Failure to observe these warnings can result in severe injury or death.

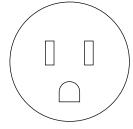
This tool must be grounded. In the event of a malfunction or breakdown, an electrical ground provides a path of least resistance for the electric current. This path of least resistance is intended to reduce the risk of electric shock.

This tool's electric cord has a grounding conductor and a grounding plug as shown. Do not modify the plug. Connect the plug to a corresponding 15-amp GFCI protected receptacle that is properly installed and grounded in accordance with all national and local codes and ordinances.

Do not use an adapter.







Receptacle

Extension cord specifications:

Diameter 2.5 mm² (12 AWG) Length 30 m (100 ft)

Use only three-wire extension cords. Use of an inadequate extension cord will cause the motor to stall.



Motor Wiring Diagram

CONNECTIONS FOR CW ROTATION (VIEW FROM LEAD END OF MOTOR)

Franklin Brown (10)	GE Purple P1	L(OW VOLTAGE (R3)	
Violet (9)	Brown P2			
Pink (1)	Black T5			 Low
Orange (5)	Orange T3			Voltage Line
Red (8)	Red J10			
Blue (4)	White T2			
Black (2)	Yellow T4			
			(R2)	

		Н	IIGH VOLTAGE	
Franklin Brown (10)	GE Purple P1	\	(R3)	
Violet (9)	Brown P2	\		†
Pink (1)	Black T5		Insulate This Lead	 High
Blue (4)	White T2			Voltage
Orange (5)	Orange T3			Line
Red (8)	Red J10			
Black (2)	Yellow T4		—	
		$\overline{}$	(R2)	

The 960 pump is equipped with a NEMA 5-15 plug for connection to a standard outlet on a 115-volt, 15-amp, 60 Hz, single-phase circuit.

The PSL models are specifically wired and labeled to meet the electrical code of Los Angeles County, California. They are equipped with a NEMA 5-20 plug for connection to a NEMA 5-20 receptacle on a 115-volt, 15-amp, 60 Hz, single-phase circuit.

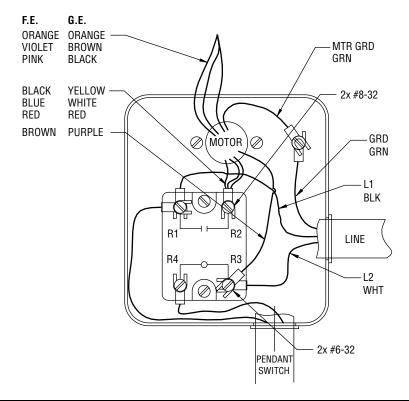
For operation at 230 volts, Greenlee suggests returning the pump to the factory.

To convert the pump to 230-volt operation:

- Re-wire the unit according to the wiring diagram that corresponds to the motor on your pump. Then replace the plug with a NEMA 6-15 plug.
- Solid state relay (Part No. 918 6403.8), motor, switch, and all other components are suitable for 230-volt operation.

Note: Greenlee will not be held liable for injuries or damage resulting from re-wiring the pump.

 Occasionally check oil temperature after pump is operated. The recommended operating temperature is 38 °C to 50 °C (100 °F to 125 °F).





Operation



ADANGER

Do not use this pump in a hazardous environment. Hazards include flammable liquids, gases, or other materials. Using this pump in a hazardous environment can result in a fire or explosion.

Failure to observe these warnings will result in severe injury or death.

AWARNING



Wear eye protection when operating or servicing this tool.

Failure to wear eye protection can result in serious eye injury from flying debris or hydraulic oil.

Note: Starting the motor without a tool attached to the pump will cause the pump to immediately build an internal pressure of 689.5 bar (10,000 psi). If this happens, shut off the pump and turn the valve lever clockwise to release the hydraulic pressure.

- 1. Move release valve lever clockwise.
- 2. Check reservoir oil level. The oil level should be within 13 mm (1/2") of the top of the reservoir. If oil level is too low, refer to "Adding Oil" under "Maintenance and Service" in this manual.
- 3. Turn the dipstick two turns counterclockwise.

 Note: Operating the pump without loosening the dipstick will result in poor pump performance.
- 4. Connect the pump to an appropriate power supply.
- 5. Start motor and allow pump to idle for a few minutes. This will allow the hydraulic fluid to work through the system and prime the pump.
- 6. Stop the motor. Turn the lever counterclockwise.
- 7. Start the motor to advance the hydraulic ram. When finished, stop the motor. Turn the lever clockwise to release the pressure.
 - Note: Starting the pump while the lever is in the clockwise position may cause the ram to extend.
 - Turning the lever counterclockwise while the pump is running may release the pressure.
- During periods of heavy use, occasionally stop the pump and check the oil temperature. The recommended operating temperature is 38 °C to 50 °C (100 °F to 125 °F).
- 9. Tighten the dipstick.

Changing Accessories

Before changing the hydraulic accessory that is connected to the pump, follow this procedure for depressurizing the system.

IMPORTANT

Procedure for depressurizing the hydraulic system:

- 1. Disconnect the pump from the power source.
- Rotate the release lever clockwise.
- 3. Disconnect the hose slowly to release any trapped pressure.



Maintenance and Service

Maintenance Schedule

Every time the pump is used:

- Check the oil reservoir level. The oil level should be approximately 13 mm (1/2") from the top of the reservoir. If the oil level is low, refer to "Adding Oil" in this section of this manual.
- Listen for unusual noises and observe the operation of the pump for changes in performance. Either situation may indicate that maintenance or repairs are necessary.

Periodically:

Examine the hydraulic oil for changes in color or viscosity, and the presence of dirt or other contamination.

Cleaning

- Periodically clean the exterior of the pump and motor.
 Use a vacuum cleaner to clean the ventilation openings.
- Clean the area around the reservoir vent, and be sure the vent breather hole is open.
- Keep all hose connections clean and use protective caps or plugs when couplers are not in use.

Inspecting Oil

Inspect the oil occasionally. A change in appearance, such as darkening or thickening, indicates that the oil needs to be replaced. Continued use of the oil after it should be replaced will cause accelerated wear of system components and will void the warranty.

Adding Oil

ACAUTION

Do not use brake fluid. Brake fluid will ruin the seals.

Refer to the "Specifications" section of this manual to determine the correct type of hydraulic oil and Greenlee part number.

- 1. Rotate the valve lever in the clockwise position.
- 2. Disconnect the pump from the power supply.
- 3. Clean the area around the fill hole.
- 4. Remove the reservoir pipe plug.
- Use Greenlee hydraulic fluid or an equivalent high grade light hydraulic oil. Refer to "Specifications" in this manual.
- Pour the oil through a clean funnel with a filter screen.
- 7. Add oil until the oil level is within 13 mm (1/2") from the reservoir cover.
- Replace the pipe plug.

Purging (Bleeding) Air from the System

Erratic performance may be caused by air in the hydraulic fluid.

Note: Position the pump so that it is above the accessory. Position the accessory so the hose connection is upward. This will allow any air in the accessory to escape into the hose and travel upward to the pump reservoir.

- Remove any items (conduit, cable, etc.) from the hydraulic accessory.
- 2. Rotate the valve clockwise.
- 3. Turn the dipstick two turns counterclockwise.
- Connect the pump to an appropriate power supply.
- 5. Start the hydraulic pump and advance the ram (hydraulic cylinder) of the accessory to a full stroke and repeat several times. Stop pump and rotate valve clockwise to retract ram. As the ram retracts, the oil in the hose will return to the reservoir in the pump.

Draining and Flushing the System

- Thoroughly clean the pump exterior.
- 2. Remove the motor mounting plate screws.
- 3. Remove the pump system from the reservoir.

 Note: Do not damage the motor mounting plate
 gasket, intake screen, or relief valve when removing
 the pump.
- 4. Clean the interior of the reservoir and fill with clean kerosene. Do not use solvents.
- 5. Rinse the intake screen.
- 6. Place the pump system into the reservoir and replace the motor mounting plate screws.
- 7. Connect a hose to the pump. Insert the other end of the hose into the pump reservoir at the fill hole.
- 8. Run the pump for a few minutes. While the pump is running, rotate the control lever several times. Start and stop the pump several times to cycle the unloading valve.
 - Note: Do not operate pump for more than a few minutes as system is not designed to operate with kerosene.
- Remove the hose and pump assembly from the reservoir. Drain and clean the reservoir interior. Allow the reservoir to dry.
- 10. Reassemble the pump system.
- 11. Fill the reservoir. Refer to "Adding Oil" in this section of the manual.

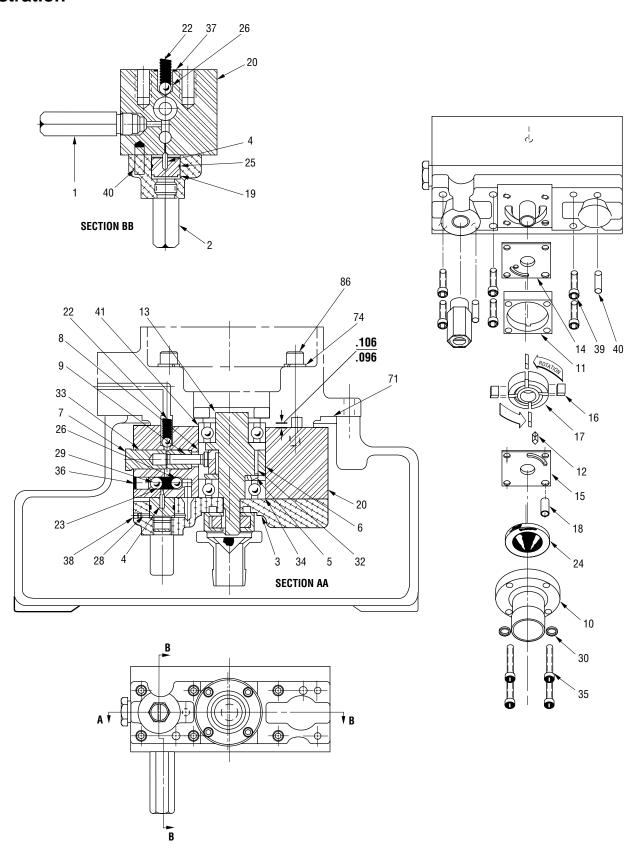
Motor Maintenance

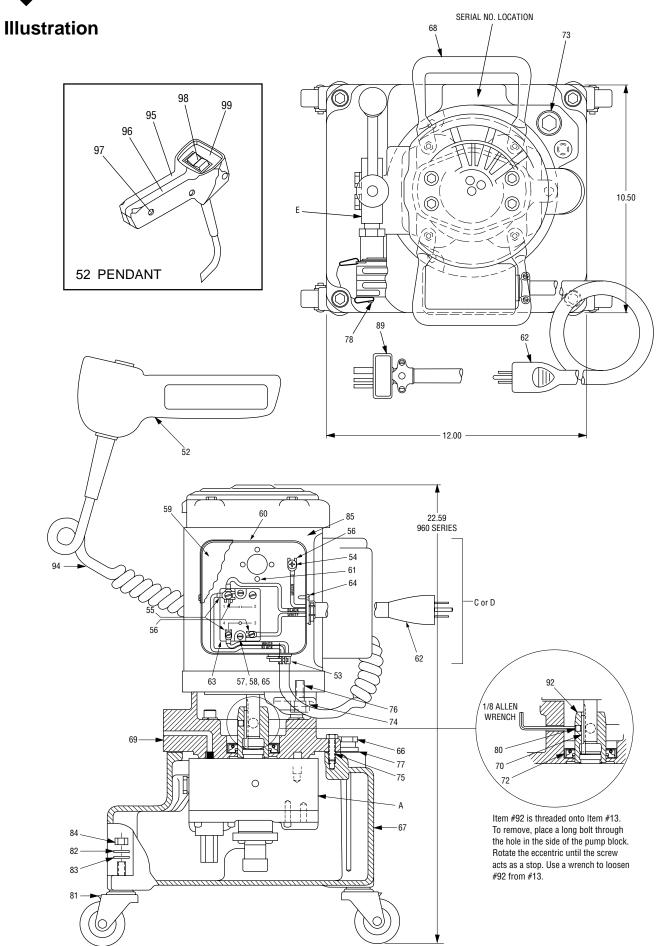
When repairs are necessary, send the motor to one of the motor manufacturer's authorized service stations.

Troubleshooting

Problem	Probable Cause	Probable Remedy
Motor does not run.	Voltage supplied is too low, or no power at outlet.	Check the voltage at the power supply. Refer to the "Specifications" section of this manual for required voltage.
	Extension cord is too long or wire gauge is too light.	Use a shorter or heavier gauge extension cord.
	Relay is faulty.	Replace relay (63).
	Motor is faulty.	Repair or replace motor.
Pump develops little pressure (low-pressure system failure).	Oil level is low.	Check oil level. Refer to "Adding Oil" in thi manual.
	Clogged intake screen.	Clean or replace intake screen (24).
	Faulty low-pressure relief valve.	Replace valve (2).
	Faulty low-pressure system.	Repair low-pressure system. Purchase Vane Repair Kit. Refer to the repair kits at the end of the parts list.
Pump develops substantial pressure, but doesn't complete the hydraulic operation (high-	Low-pressure system failure.	Refer to the causes and remedies describ under low-pressure system failure.
pressure system failure).	Faulty high-pressure relief valve.	Replace valve (1).
	Sticking plunger.	Replace plunger (8) and bushing (9).
	Leaking ball.	Re-finish the seats for the 9/32" balls.
		Replace the 9/32" balls (26).
	Sticking low pressure plunger.	Replace plunger (19).
Pressure buildup is erratic.	Oil level is low.	Check oil level. Refer to "Operation" in this manual.
	Air in hydraulic system.	Refer to "Purging (Bleeding) Air from the System."
	Dirt in the hydraulic system.	Refer to "Draining and Flushing the System."
	Faulty high-pressure relief valve.	Replace valve (1).
	Sticking plunger.	Replace plunger and bushing (8, 9).

Illustration







Parts List

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

Key	Part No.	Description	Qty
Α	501 8236.6	Block unit, pump (includes items 1 and 3-41)	1
С	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
Е	501 5644.6	Single-action valve for -SA series pumps	1
F		Twin-action valve for -TA series pumps	
		Subplate for TA valve	1
1	500 6067.8	Valve unit, high pressure relief	
2	501 7766.4	Valve unit, low pressure relief	
3	501 8194.7	Plate, pump mounting	
4	500 3493.6	Pin, seal, .125 x .500	
5	501 8871.2	Spacer, .790 x 1.62 x .187	
6	501 1855.2	Race, outer	
7	501 1862.5	Plug, plunger, high pressure	
8	501 9060.1	Plunger, high pressure	
9	501 9059.8	Bushing, plunger, high pressure	
10	502 0424.6	Block, intake	
11	501 4861.3 **	Plate, pump	
12	501 4862.1 **	Key, square, .125 x .375	
13	501 4876.1	Shaft, eccentric	
14	501 7130.5 **	Plate, top	
15	501 7131.3 **	Plate, bottom	
16	501 7135.6 **	Vane, pump	
17	501 7136.4 **	Rotor	
18	501 7467.3	Dowel, hollow	
19	501 8195.5	Plunger, check valve	
20	501 8237.4	Block, pump	
22	500 6111.9 *	Spring, compression, .219 x .281 x .875	
23	501 4865.6 *	Spring, compression, .225 x .281 x .656	
24	502 1175.7	Screen, intake	
25	905 0014.8 *	O-ring, 5/8 x 3/4 x 1/16	
26	905 0436.4 *	Ball, steel, 9/32 diameter	
28	905 0677.4 *	Ball, steel, 5/32 diameter	
29	905 0681.2 *	Ball, steel, 3/8 diameter	
30	905 1526.9	Washer, lock, .172 x .267 x .045 spring	
32	502 2611.8	Roller, .125 x .750 Torrington (set of 30 rollers)	
33	905 1524.2 *	O-ring, 1/2 x 5/8 x 1/16	
34	905 0989.7	Bearing, ball, .787 x 2.04 x .590	
35	905 0994.3	Screw, cap, #8–32 x 1.25 socket head	
36	905 1111.5	Screw, set, 7/16–20 x .500 socket head	
37	905 2817.4 *	O-ring, 7/16 x 9/16 x 1/16	
38	905 1241.3	Screw, set, #10–32 x .187 socket flat point	
39	905 1471.8	Screw, cap, #10–32 x .875 socket head	
40	905 1472.6	Pin, dowel, .250 x .750	
41	905 1473.4	Bearing, ball, .984 x 2.04 x .590	
52	503 2363.6	Switch unit, pendant (includes items 94 – 98)	
53	918 5117.3	Connector, two screw	
54	905 3194.9	Screw, self-tapping, #10–16 x .250 Phillips head	
55	918 5287.0	Terminal, flanged fork	
56	918 5757.0	Terminal, locking fork	
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	
61	905 3281.3	Screw, self-tapping, #10–16 x .625 Phillips head	
62	918 6074.1	Cord, electric	
63	918 6403.8	Relay, solid state	
64	905 2240.0	Screw, self-tapping, #6–20 x .375 Phillips head	
65	905 1440.8	Screw, machine, #8-32 x .375 round head	
66	501 5646.2	Dip stick	
67	501 5695.0	Reservoir	
68	501 2663.6	Handle, lifting	
69	501 8292.7	Plate, motor mounting	
70	501 4852.4	Key, motor shaft (supplied with motor)	
71	501 5701.9 *	Gasket, reservoir	
72	905 0320.1 *	Seal, oil, 1.37 x 2.37 x .312	
73	905 0734.7	Plug, pipe, 3/4, NPTF socket	
74	905 0506.9	Washer, lock, 3/8	
7 . 75	905 0522.0	Screw, cap, 5/16–18 x. 1.00 hex head	
76	905 0532.8	Screw, cap, 3/8–16 x. 1.25 hex head	
70 77	905 0332.8	O-ring, 7/16 x 5/8 x 3/32	
		Coupler, quick, 3/8" (TAPS model has quantity of 2)	
78	905 0807.6		
80	905 1269.3	Screw, set, 1/4–20 x. 250 socket head	
81	905 1428.9	Caster, swivel	
82	905 2836.0	Washer, shakeproof, 3/8	
83	905 1434.3	Washer, flat, 13/32 x 13/16 x 1/16	
84	905 1435.1	Nut, hex, 3/8–16	
85	005 4474 0	Motor unit (refer to the "Motor Parts List")	
86	905 1474.2	Screw, cap, 3/8–24 x. 2.50 socket head	
89	918 5558.6	Plug, 3-wire, 125 V, 20 amp	
92	501 8238.2	Adapter, drive shaft	
94	503 2362.8	Cord unit	
95	501 3901.9	Handle, left half	
96	503 1902.7	Handle, right half	
97	905 3441.7	Screw, self-tapping, #6–20 x .625 pan head	
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	
	501 2214.2	Decal, caution	
	501 5832.5	Decal, arrow	
	500 7248.6	Decal, extension cord	
	502 1366.0	Decal, vent caution	
	502 1395.4	Tag, vent caution	
	503 4316.5	Decal, read IM	
	503 5031.5	Decal, nameplate	
	503 2370.9	Decal, face plate	
	503 5472.8	Decal, schematic	
	500 2581.3	Decal, caution	
	502 2510.3	Decal, caution	
		Doodi, vadiloii	1
Repair k	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 st	ate 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
Crasulas Dart Na	Franklin Bart Na	Description	04

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

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.

296114-101

297673-420

918 6552.2

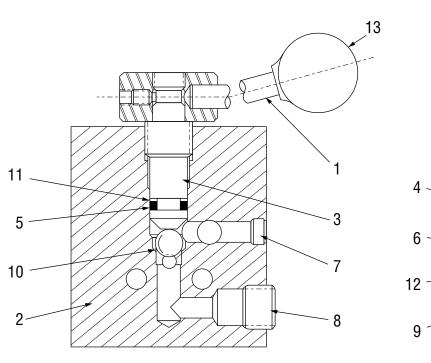
918 6553.0

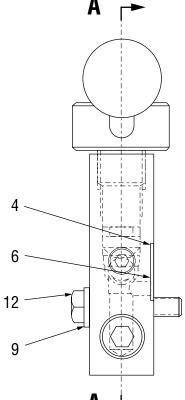
Fan1

Canopy cover, fan 1



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	
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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