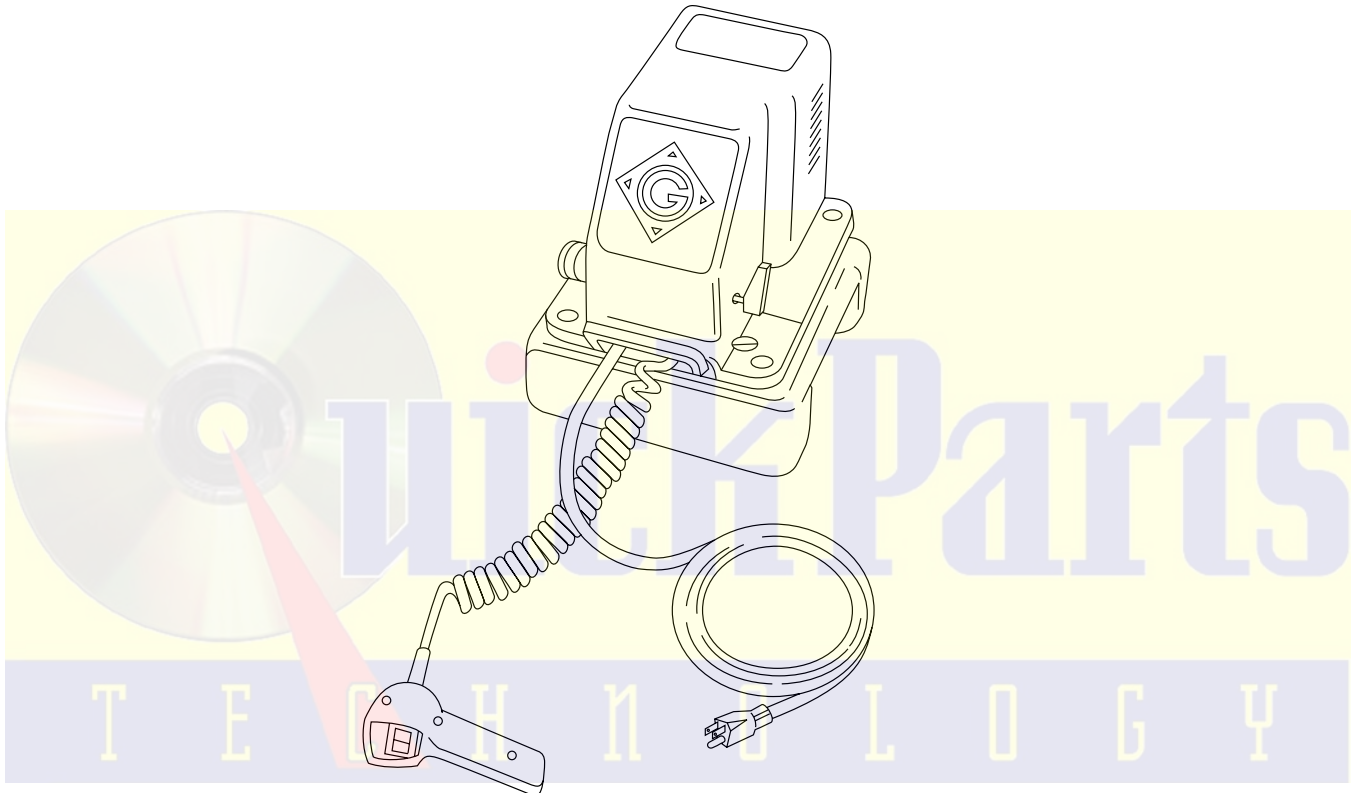


INSTRUCTION MANUAL



975 Hydraulic Power Pump

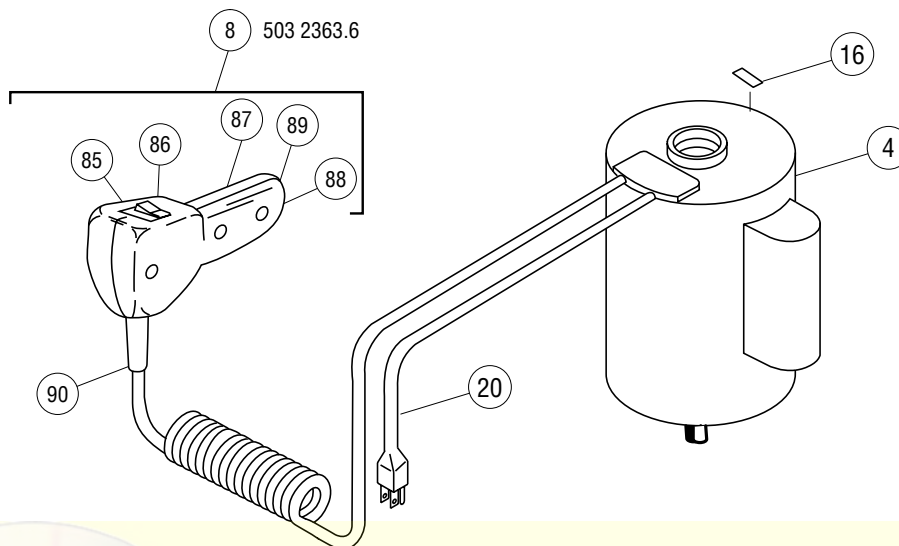
Serial Code TZ



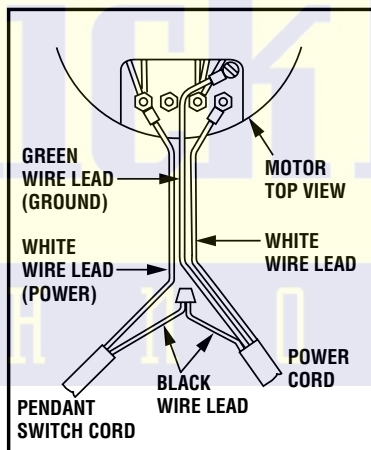
Read and understand all of the instructions and safety information in this manual before operating or servicing this tool.

Service

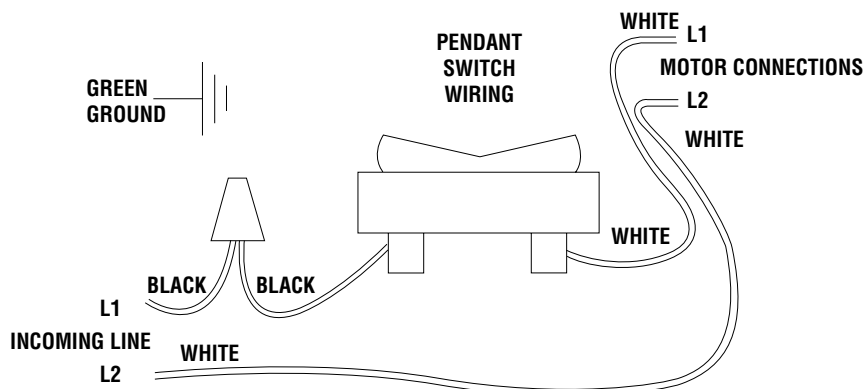
Motor Control Unit



Pendant Switch Control Wiring



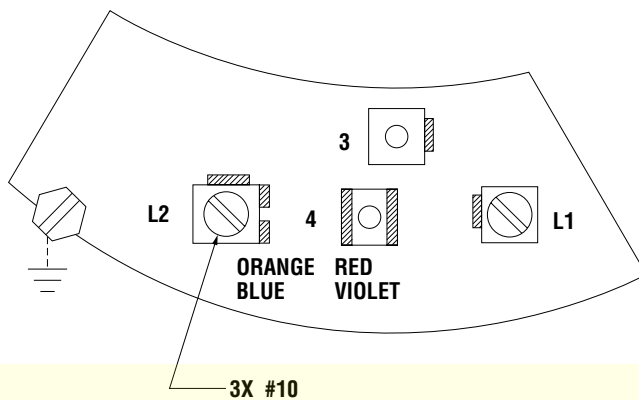
Pendant Switch Wiring



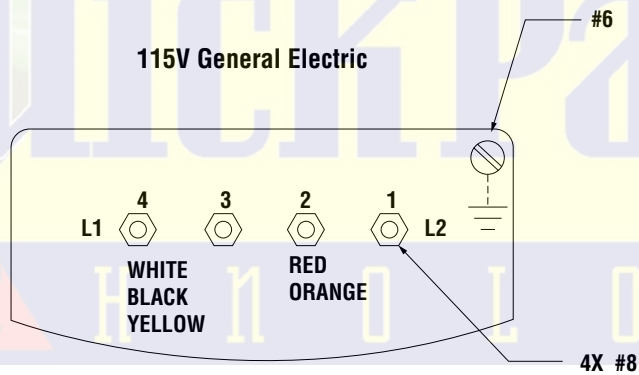
Service (cont'd)

Motor Control Unit

115V Franklin Electric

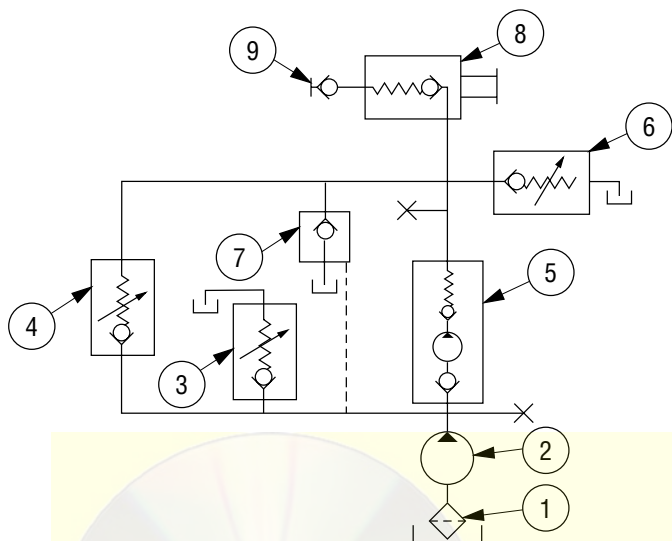


115V General Electric



Service (cont'd)

Hydraulic Schematic



- ① Intake strainer, #50 mesh brass screen
- ② Low-pressure pump
5.5 liters/min. (335 in³/min) at 3600 rpm (100%)
- ③ Low-pressure relief valve — 19 bar (275 psi) located
in pilot-operated valve ⑦ Piston
- ④ Low-pressure bypass check valve
- ⑤ High-pressure pump
.37 liters/min. (22.5 in³/min) at 3450 rpm (100%)
- ⑥ High-pressure relief valve
717/700 bar (10,400/10,000 psi)
- ⑦ Pilot-operated directional control valve
3 way, 2 position
- ⑧ Manually operated check valve
- ⑨ Female coupler half

Sealing Instructions for Assembly

Motor

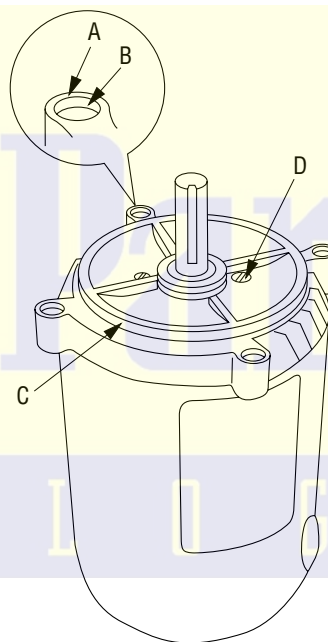
If the motor has been disassembled, seal with a 3 mm (1/8") bead of a silicone-based gasket/flange sealant, such as Loctite® 587 Ultra Blue®, as follows:

- (A) To the mounting surface around the threads (four locations)
- (B) To the chamfer (four locations)
- (C) Around the innermost machined circumference of the mounting surface

Apply a 1.5 mm (1/16") bead of an RTV-type silicone-based sealant, such as Dow Corning 732™ Multipurpose Sealant, as follows:

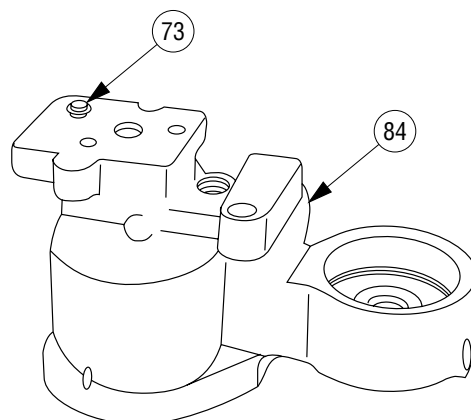
- (D) Around the motor bearing screws (two locations)

Assemble immediately.

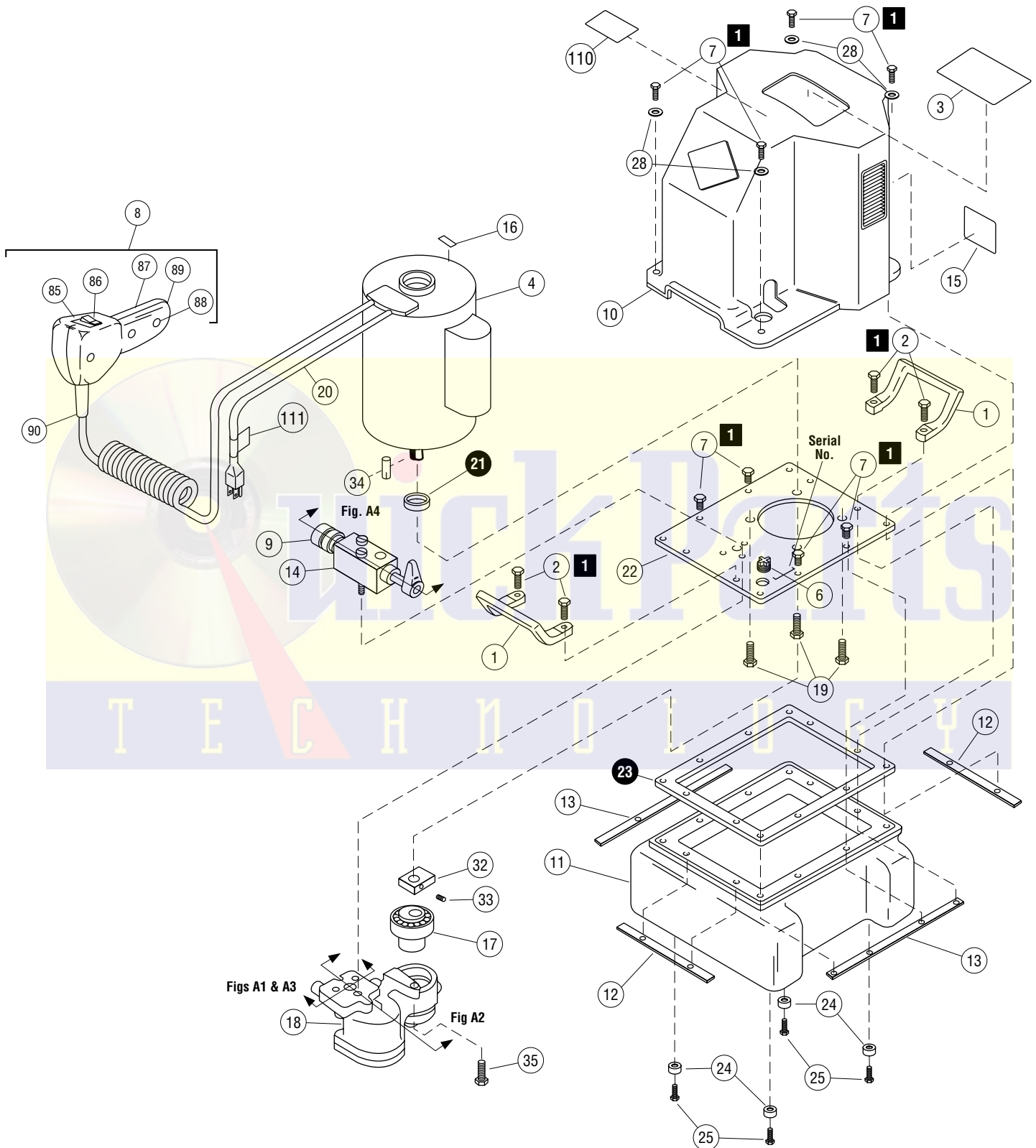


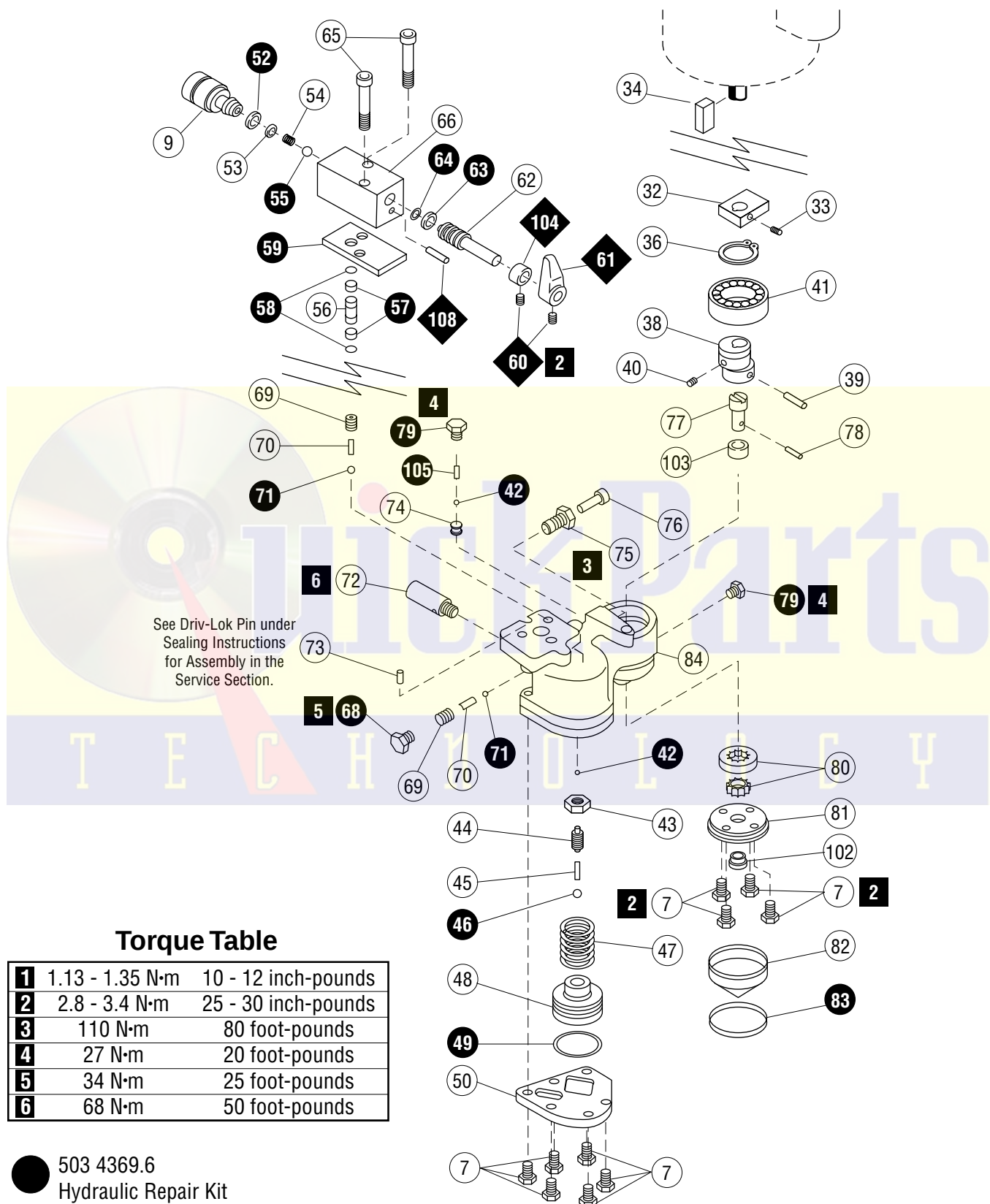
Driv-Lok Pin

Seal the Driv-Lok pin (73) to the pump block (84) with a 1.5 mm (1/16") bead of an RTV-type silicone-based sealant, such as Dow Corning 732™ Multipurpose Sealant or equivalent.



Exploded View



Exploded View—Pump Block

Torque Table

1	1.13 - 1.35 N·m	10 - 12 inch-pounds
2	2.8 - 3.4 N·m	25 - 30 inch-pounds
3	110 N·m	80 foot-pounds
4	27 N·m	20 foot-pounds
5	34 N·m	25 foot-pounds
6	68 N·m	50 foot-pounds

 503 4369.6
Hydraulic Repair Kit

 503 5464.7
Release Knob Retrofit Kit

Parts List

KEY	PART NO.	DESCRIPTION	QTY.
1	503 3518.9	Carrying Handle	2
2	905 3709.2	1/4–20 x 1-1/4" Hex Head Screw	4
3	503 3721.1	Decal	1
4	918 6339.2	Motor, 115 VAC, 1/2 hp	1
		GE 5CK36JN268X	
		Franklin 1103007415	

SERVICE PARTS:		GE	FE
	Greenlee No.	918 6377.5 ①	918 6503.4 ②
Capacitor	Manufacturer No.	111A271P1 ①	275469110 ②
	Greenlee No.	918 6502.6	918 6504.2
Cover, Cap	Manufacturer No.	111B275AA1	276756101

6	503 2661.9	Fill-Vent Plug	1
7	905 0520.4	1/4–20 x 3/4" Hex Head Screw	18
8	503 2363.6	Pendant Switch Unit (includes 85-90)	1
9	905 0807.6	Coupling	1
10	503 3489.1	Shroud	1
11	503 3490.5	Reservoir	1
12	503 3535.9	Short Retaining Strap	2
13	503 3536.7	Long Retaining Strap	2
14	503 3537.5	Release Valve Unit	1
		(includes 52-66, 104, 108)	
15	503 3723.8	I.D. Decal	1
16	501 5832.5	Arrow Decal	1
17		Eccentric Unit	1
		(see next page for breakdown)	
18		Pump Block Unit	1
		(see next page for breakdown)	
19	905 0530.1	Hex Hd. Cap Screw 3/8–16 x 1.00"	3
20	918.6296.5	Power Cord	1
*21	905 3682.7	Seal	1
22	503 3517.0	Cover Plate	1
*23	503 2627.9	Cover Plate Gasket	1
24	905 3829.3	Rubber Foot	4
25	905 1185.9	Screw, 1/4–20 x 1/4"	4
28	905 2339.3	1/4" Flat Washer	4
32	503 3527.8	Counterweight	1
33	905 1269.3	Set Screw, 1/4–20 x 1/4"	1
34	501 4557.6	Motor Shaft Key, 3/16" x 1-3/8"	1
35	905 0533.6	Hex Hd. Cap Screw, 3/8–16 x 1.50"	1
36	905 3707.6	Retaining Ring	1

Parts List (cont'd)

KEY	PART NO.	DESCRIPTION	QTY.
38	503 3526.0	Eccentric Shaft.....	1
39	905 0699.5	Rollpin, 3/16" x 1"	1
40	905 0791.6	Set Screw, 10–32 x 1/4"	1
41	905 3704.1	Ball Bearing, #3206	1
*42	905 0678.2	Ball, 3/16"	2
43	905 0016.4	Jam Nut, 1/2–20	1
44	503 3520.0	Stem.....	1
45	503 2534.5	Spring, .240" O.D x .750"	1
*46	905 0679.0	Ball, 1/4"	1
47	905 3701.7	Spring, 1.460" O.D x 1.500"	1
48	503 3519.7	Auto Valve Piston	1
*49	905 0340.6	O-Ring, 1-5/8" x 2" x 3/16"	1
50	503 3521.9	Pump Block Cover	1
*52	905 3503.0	Retaining Ring	1
53	905 3468.9	Plain Flat Type "A" Washer #10	1
54	905 3510.3	Compression Spring, .240" O.D. x .687"	1
*55	905 0680.4	Ball, 5/16"	1
56	503 2622.8	Coupling	1
*57	905 1290.1	Back-up Ring, 3/8" x 1/2" x 1/16"	2
*58	905 0168.3	O-Ring, 3/8" x 1/2" x 1/16"	2
*59	503 2626.0	Gasket	1
+60	905 1269.3	Set Screw, 1/4–20 x .38"	2
+61	503 4796.9	Release Valve Knob	1
62	503 3541.3	Control Shaft.....	1
*63	905 3827.7	Back-up Ring, 1/2" x 5/8"	1
*64	905 0912.9	O-Ring, 1/2" x 5/8" x 1/16"	1
65	905 3496.4	Cap Screw, 5/16–18 x 2.50"	2
66	503 2623.6	Release Valve Body	1
*68	905 3698.3	O-Ring Plug (includes 107)	1
69	905 3712.2	Jam Screw, 7/16"	2
70	905 3702.5	Spring, .240" O.D x .810	2
*71	905 0436.4	Ball, 9/32"	2
72	500 6067.8	High Pressure Relief Valve.....	1
73	905 3706.8	Type "D" Driv-Lok Pin, 1/4" x 1/2"	1
74	503 4310.6	Insert, Cavity	1
75	503 3531.6	High Pressure Bushing	1
76	503 3532.4	High Pressure Piston	1
77	503 3525.1	Drive Shaft	1
78	503 2934.0	Drive Pin, 1/8" x 5/8"	1
*79	905 3699.1	O-Ring Plug (includes 106)	1
80	905 3517.0	Gerotor	1

Parts List (cont'd)

KEY	PART NO.	DESCRIPTION	QTY.
81	503 4197.9	Lower Gerotor Plate Unit (includes 102)	1
82	503 3524.3	Filter	1
*83	905 3766.1	O-Ring, 2-3/8" x 2-5/8" x 1/8"	1
84	503 3533.2	Pump Block	1
85	503 2370.9	Faceplate Decal	1
86	918 6265.5	Switch, Rocker	1
87	503 1902.7	Handle, Right Half	1
88	905 3441.7	Self-Tapping Screw, 6-20 x 5/8"	3
89	503 1901.9	Handle, Left Half	1
90	503 2362.8	Cord, Pendant	1
102	905 3839.0	Bearing, Bronze	1
103	905 3320.8	Bearing, Bronze 1/2" x 5/8" x 1/2"	1
+104	503 4886.8	Shaft Stop Collar	1
*105	905 3816.1	Pin, 1/8" x 1/4" Driv-Lok	1
+108	905 0078.4	Roll Pin, .187" Dia. x 3/4" Long	1
109	4016GB	Hydraulic Oil, 1 gal, ea.	1.5
	4017GB	Hydraulic Oil, 1 qt, ea.	6
110	500 2581.3	Decal, caution	1
111	502 2510.3	Decal, caution	1

Greenlee Hydraulic Oil (Mobil DTE® 13M)

905 1059.3 / 4016GB	1 gallon
905 0806.8 / 4017GB	1 quart

* Parts included in Hydraulic Repair Kit No. 503 4369.6

+ Parts included in Release Knob Retrofit Kit 503 5464.7

① 440 µfd.	Grainger	#1A569	1B/16Ø x 3-3/8	↓	PSA4R 10400N
② 460-552 µfd.	Grainger	#4X070	1B/16Ø x 4-3/8	Aero	PSA5R 10460N



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