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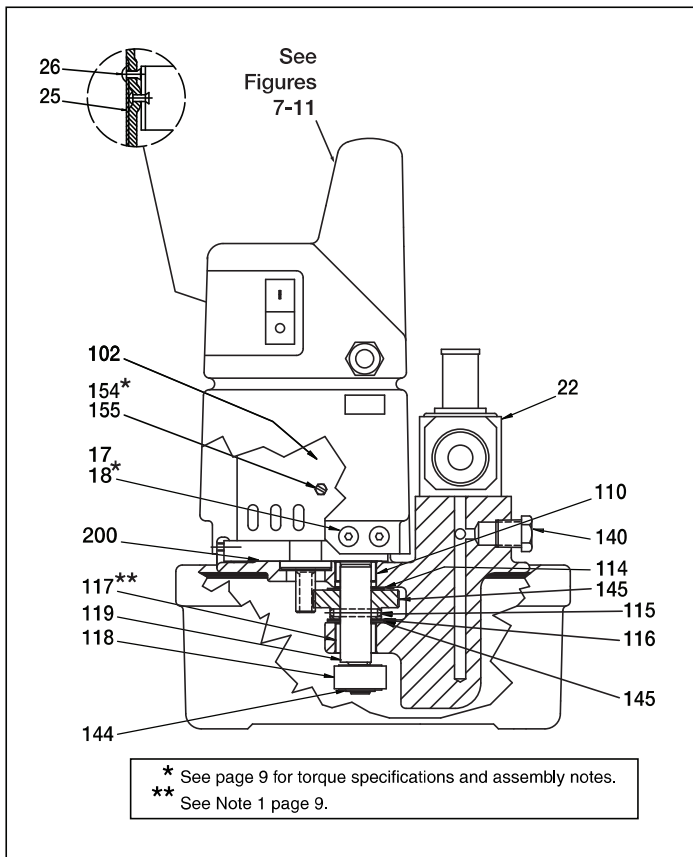


Figure 1, Pump Side View

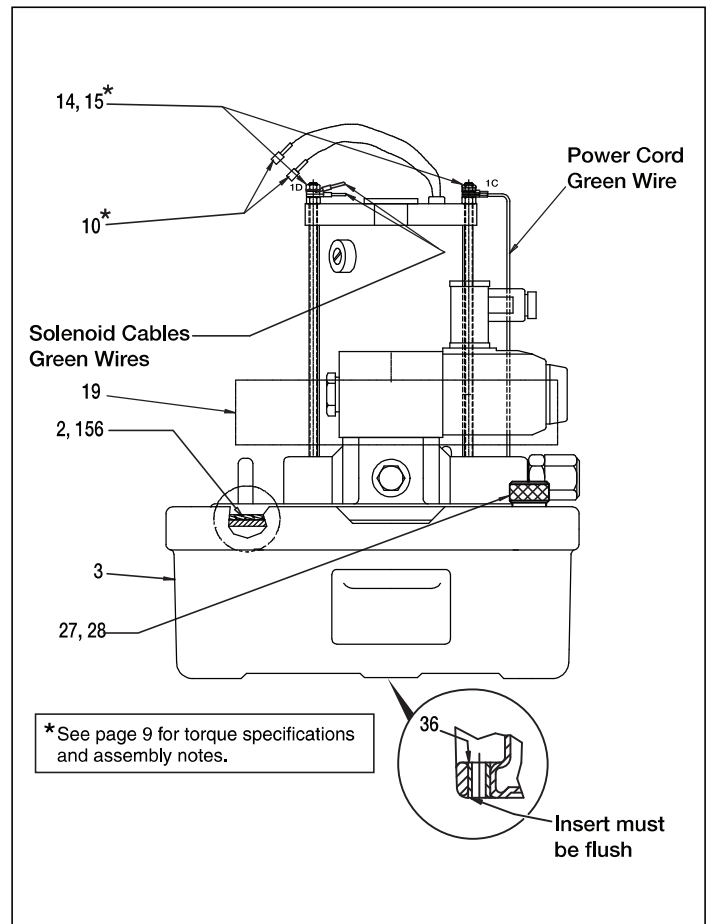


Figure 2, Pump Front View (shroud removed)

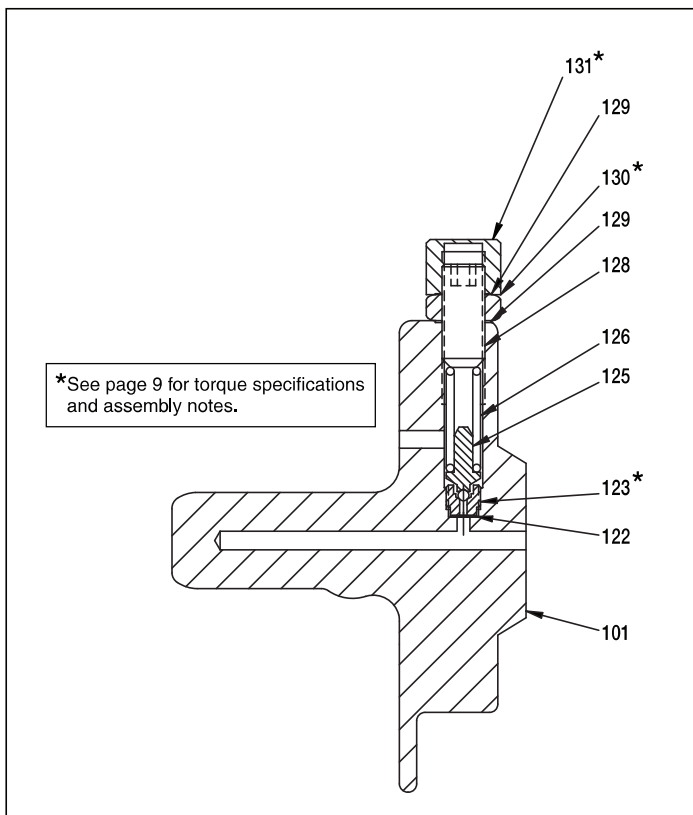


Figure 3, Relief Valve

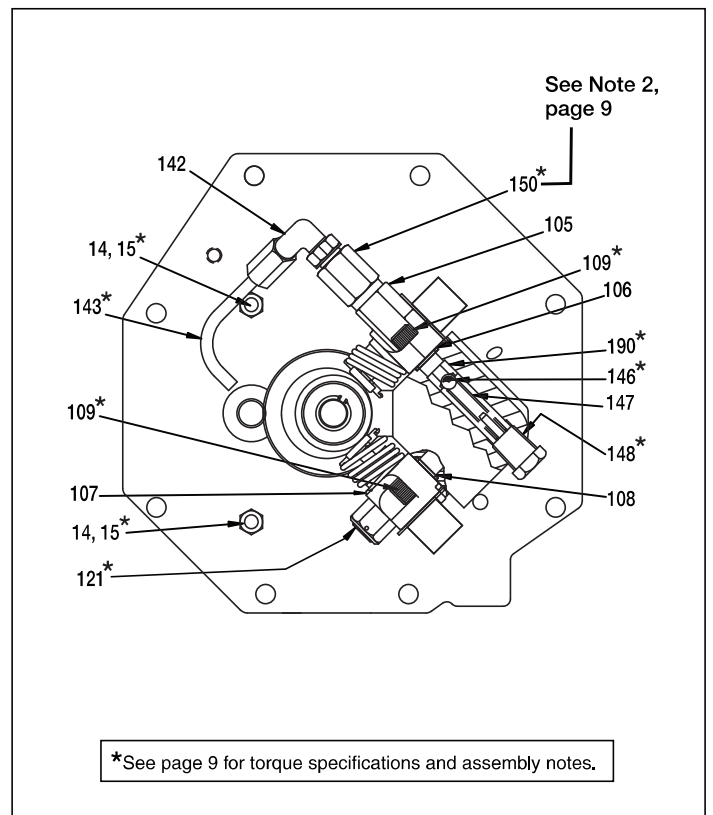


Figure 4, Pump Bottom View

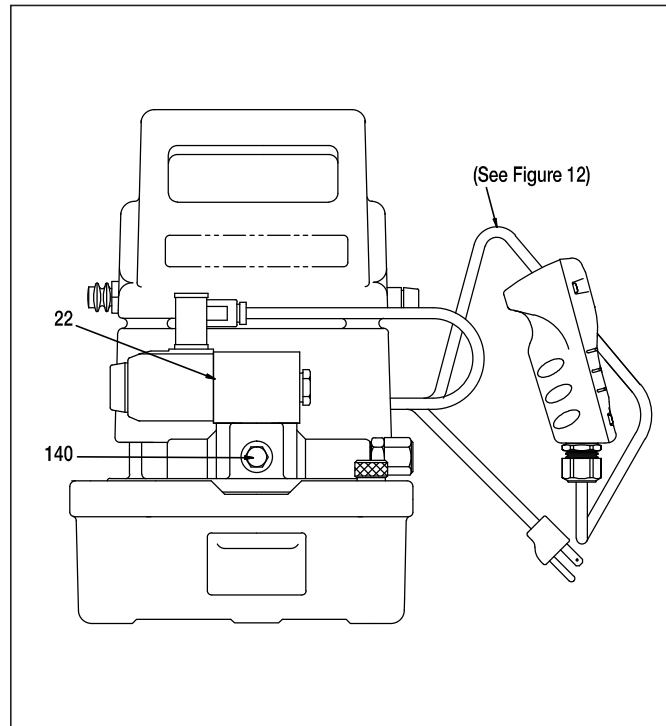


Figure 5, Pump Front View (assembled)

Repair Parts List for Figures 1 through 5

Item	Part Number	Qty.	Description	Item	Part Number	Qty.	Description
2	★DA12088167SR	1	Gasket (Includes item 156)	118	CW302107	1	Bearing
3	DA1910900SR	1	Reservoir Assembly. 0.5 Gal.	119	CW303104	1	Shaft
	DA4780900SR		Reservoir Assembly. 1.0 Gal.	121	DA5999900SR	1	Relief Valve (see Figure 4)
10	DA3776006	2	Pin	122	★C846037	1	Gasket
14	DA15066	4	Lock Washer	123	★DA5771290	1	Seat
15	B1018121	4	Hex Nut	125	DC1316900SR	1	Ball Guide Assembly
17	CW261225	6	Eyelet	126	★A109164	1	Compression Spring
18	F866028	6	Machine Screw	128	DA252028	1	Adjusting Screw
19	CW259298	1	Baffle	129	★S1167	1	Gasket
22	VSG2310P	1	115V Poppet Valve Ass'y	130	CW306055	1	Lock Nut
	VSG3510P	1	230V Poppet Valve Ass'y	131	CW307055	1	Cap Nut
25	Contact Enerpac	1	Nameplate	140	R515245-2	1	Plug
26	DC818003	4	Pop Rivet	142	DA1011096	1	Elbow
27	DA608024	1	Vent Plug	143	DA261268	1	Tube
28	★B1906503	1	O-Ring	144	★CW467044	1	Retaining Ring
36	DA931225	2	Insert	145	★DA445107	2	Bearing
101	DA12490840SR	1	Pump Manifold (includes # 121)	146	★B1007016	1	Ball
102	CW179259	1	115 VAC Motor	147	★DA1564110	1	Spring
	DC1415259	1	230 VAC Motor (50 Hz)	148	DC433950	1	Plug Assembly
105	DD1449051SR	1	Piston Block Assembly, 14mm	149	B1020028	4	Cap Screw
106	★B1007503	1	O-Ring	150	DA610900SR	1	Relief Valve Assembly
107	DD1450051SR	1	Piston Block Assembly, 6mm	154	★CU876028	3	Screw (10-24)
108	★B1012803	1	O-Ring	155	DA3585186	3	Spacer
109	B1010028X	4	Screw	156	See item 2	1	Gasket
110	CW252107	1	Bearing	190	DA12352290	1	Ball Seat
114	CW301228	1	Driven Gear	200	★DC1947167	1	Gasket
115	★B1097057	1	Spring Pin	Replacement Brushes for Electric Motor			
116	★CW199107	1	Bearing	- - -	DA9655380	1	Brush Set for 115V Models
117	CW251107	1	Bearing	- - -	DA9656380	1	Brush Set for 230V Models

★ Included in Repair Kit PUD1100BK

* See page 9 for torque specifications and assembly notes.

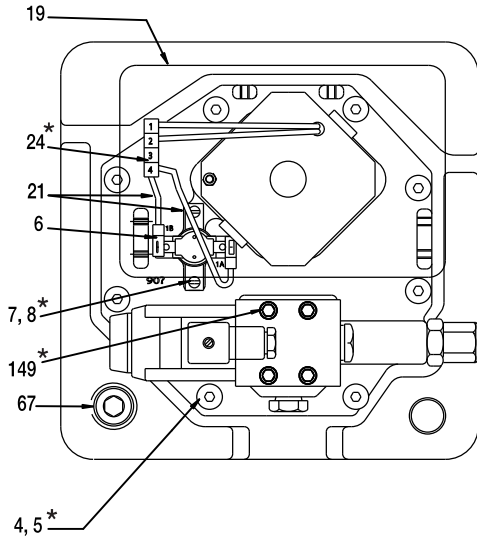


Figure 6, Pump Top View

Repair Parts List for Figure 6

Item	Part Number	Qty.	Description
4	DA6954167	8	Gasket
5	DC2038028	8	Screw
6	E1100004	1	Thermostat, 115V
	DC8401372	1	Thermostat, 230V
7	C701222	2	Washer
8	M642028	2	Screw
19	CW259298	1	Baffle
21	DC7969960	2	Wire Assembly
24	DA11540380	1	Pin Housing
67	A1009245	2	Plug
149	DD1074028	4	Cap Screw

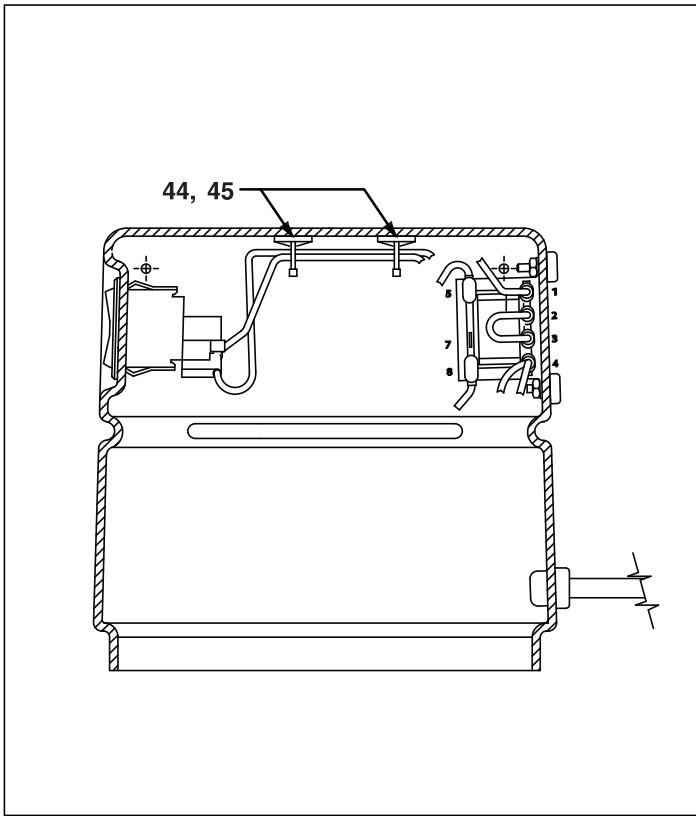


Figure 7, Shroud Wiring - Behind Motor

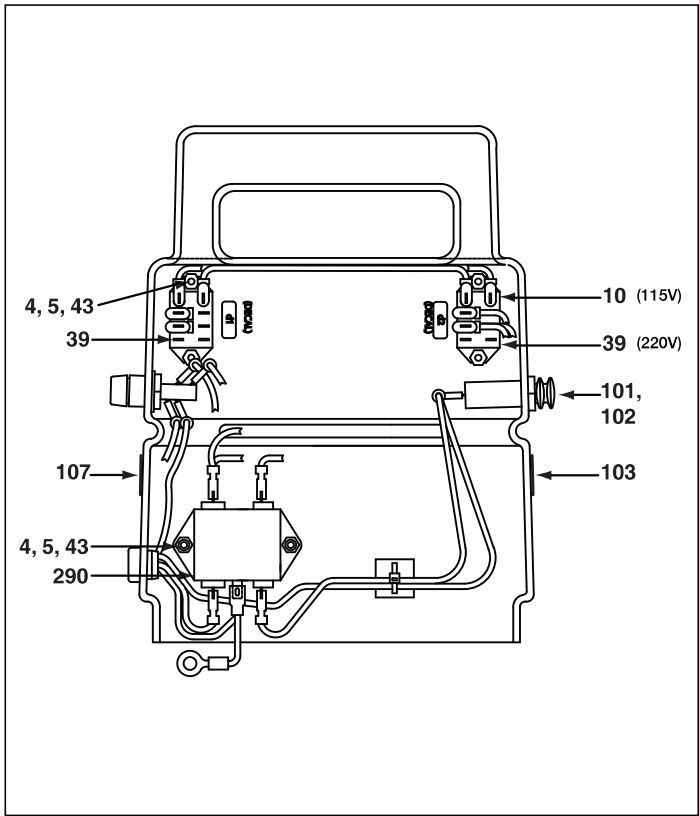


Figure 8, Shroud Wiring - Front of Motor

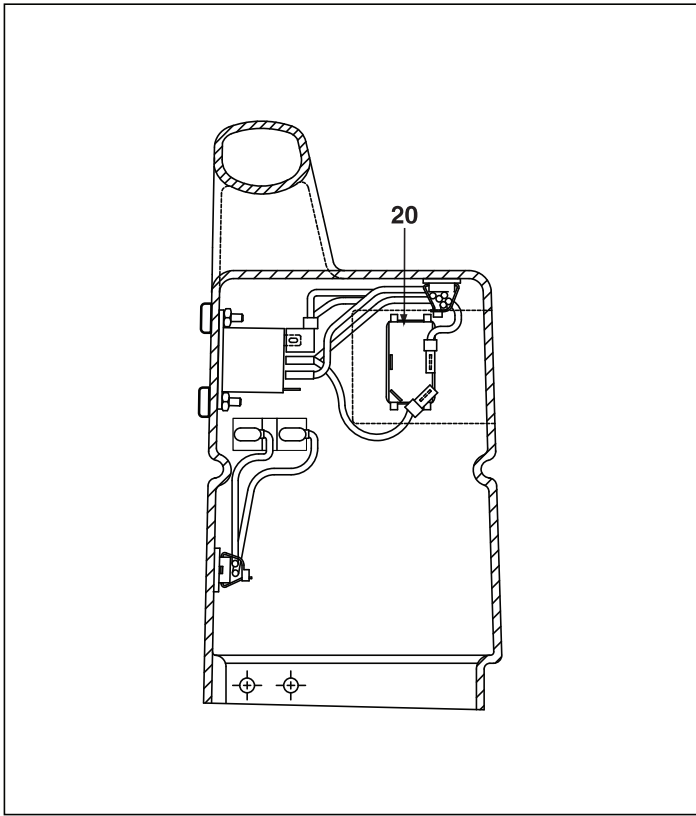


Figure 9, Shroud Wiring - Left of Motor

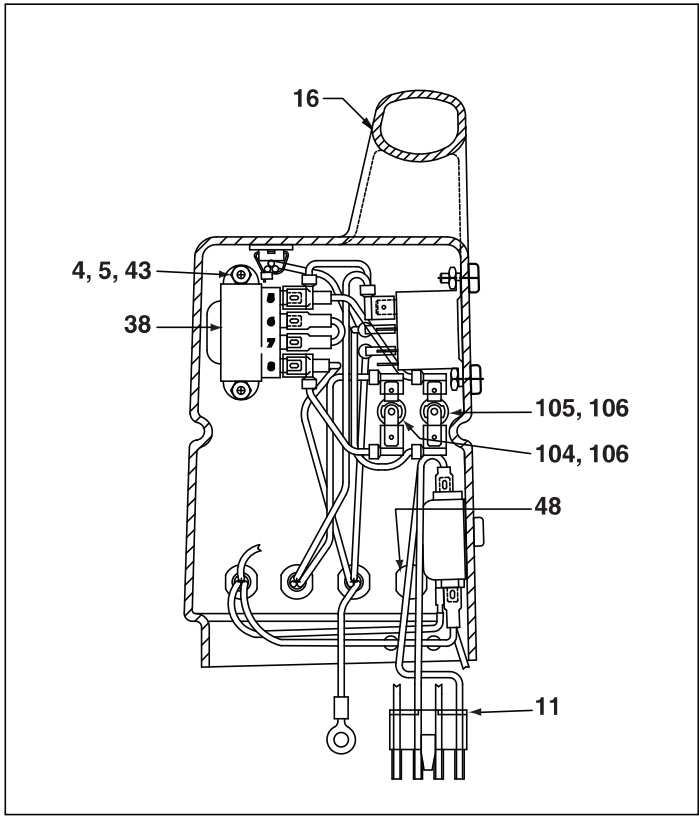


Figure 10, Shroud Wiring - Right of Motor

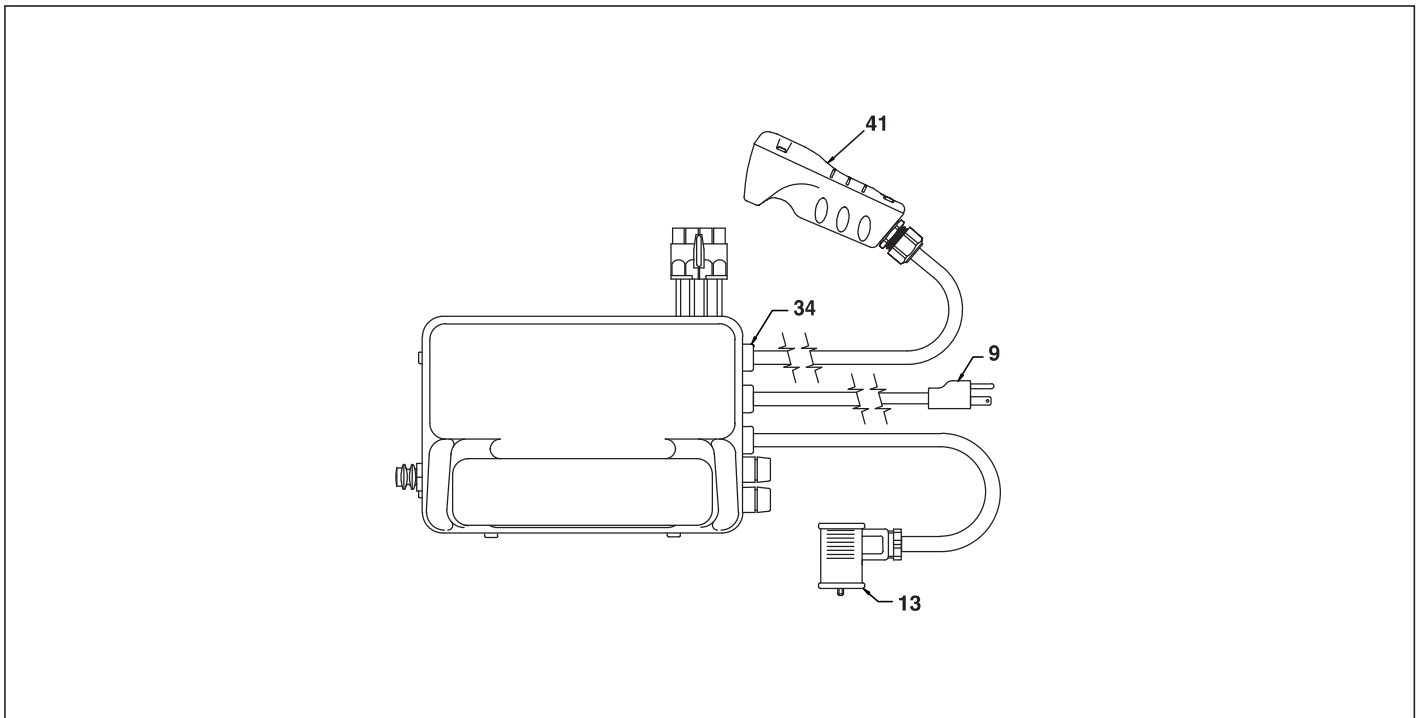
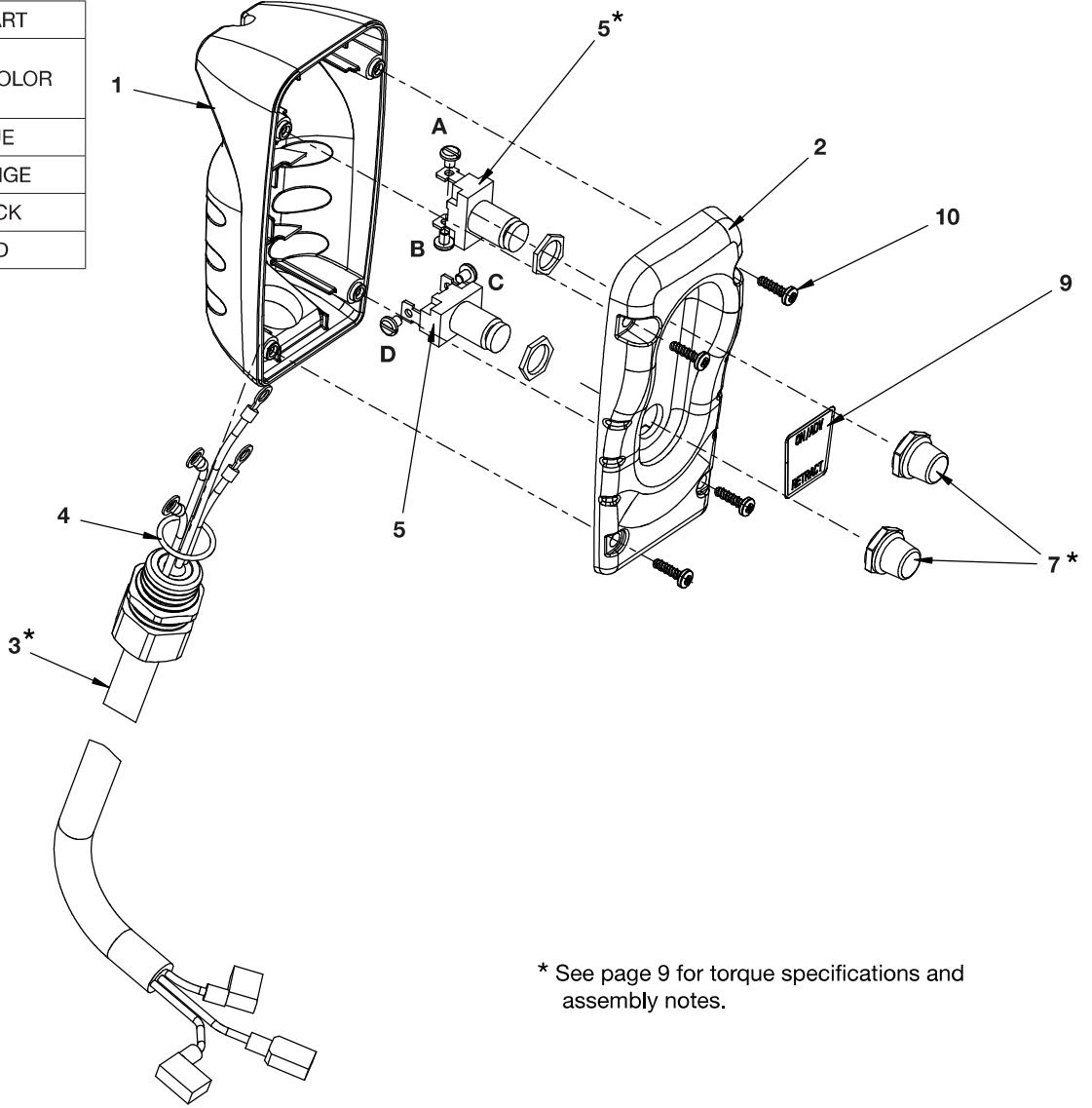


Figure 11, Top View, Cord and Cables

Repair Parts List for Figures 7-11							
Item	Part Number	Qty.	Description	Item	Part Number	Qty.	Description
4	BC1310728	6	Screw (115V)	41	(See Fig. 12)	1	Pendant Assy.
	BC1310728	8	Screw (230V)	43	DA5974098	6	Screw Cover (115V)
5	F75021	6	Lock Nut, #6-32 (115V)		DA5974098	8	Screw Cover (230V)
	F75021	8	Lock Nut, #6-32 (230V)	44	EHC3901075	3	Tie Down
9	DC7954960SR	1	Power Cord, 115VAC	45	DA3131217	4	Wire Tie
	DD5840960SR	1	Power Cord, 230VAC	48	DA3731009	1	Hole Plug
10	DC8280980	1	Relay d2 (115V only)	101	DC8366380	1	Circuit Breaker (115V)
11	DA11539380	1	Socket Housing		DC8367380	1	Circuit Breaker (230V)
13	DC7912960	1	Solenoid Cable (115V)	102	DC8200380	1	Circuit Breaker Reset Cap
	DC10015960	1	Solenoid Cable (230V)	103	DC8237023	1	Circuit Breaker Decal
16	DC10039098	1	Shroud (115V)	104	DC8371378	1	Secondary Fuse, 300mA
	DC10038098	1	Shroud (230V)	105	DC8370378	1	Primary Fuse, 62mA (115V)
20	DA7118372	1	Switch		DC8400378	1	Primary Fuse, 40mA (230V)
34	CR759291	4	Cord Bushing	106	DC8372378	2	Fuse Holder
38	DA5875380	1	Transformer	107	DC7891026	1	Fuse Decal
39	DD2668380	1	Relay d1 (115V)	290	DC8365380	1	EMI Filter (230V only)
	DC8280980	1	Relay d1 and d2 (230V)				

Note: For replacement shroud assembly, order Repair Kit DC7938900SR (115V) or DC7939900SR (230V).

WIRING CODE CHART	
SWITCH TERMINAL	WIRE COLOR
TAB A	BLUE
TAB B	ORANGE
TAB C	BLACK
TAB D	RED



* See page 9 for torque specifications and assembly notes.

Figure 12, Pendant Assembly

Repair Parts List for Figure 12

Item	Part Number	Qty.	Description	Item	Part Number	Qty.	Description
1	DC9425424	1	Assembly, Lower Pendant	5	DC8282379	2	Switch, Push Button
2	DC8122424	1	Assembly, Upper Pendant	7	DC8284379	2	Boot, Push Button
3	DD2685960	1	Pendant Cord (115V Models)	9	DD1071026	1	Decal
	DD1056960	1	Pendant Cord (230V Models)	10	DC9428008	4	Screw, Hi-Lo #8 x1/2"
4	B1223503	1	O-Ring				

Complete replacement pendant assembly (includes all items shown in Fig. 12):

- 115V Models: order Repair Kit DD2687900SR.
- 230V Models: order Repair Kit DD1051900SR.

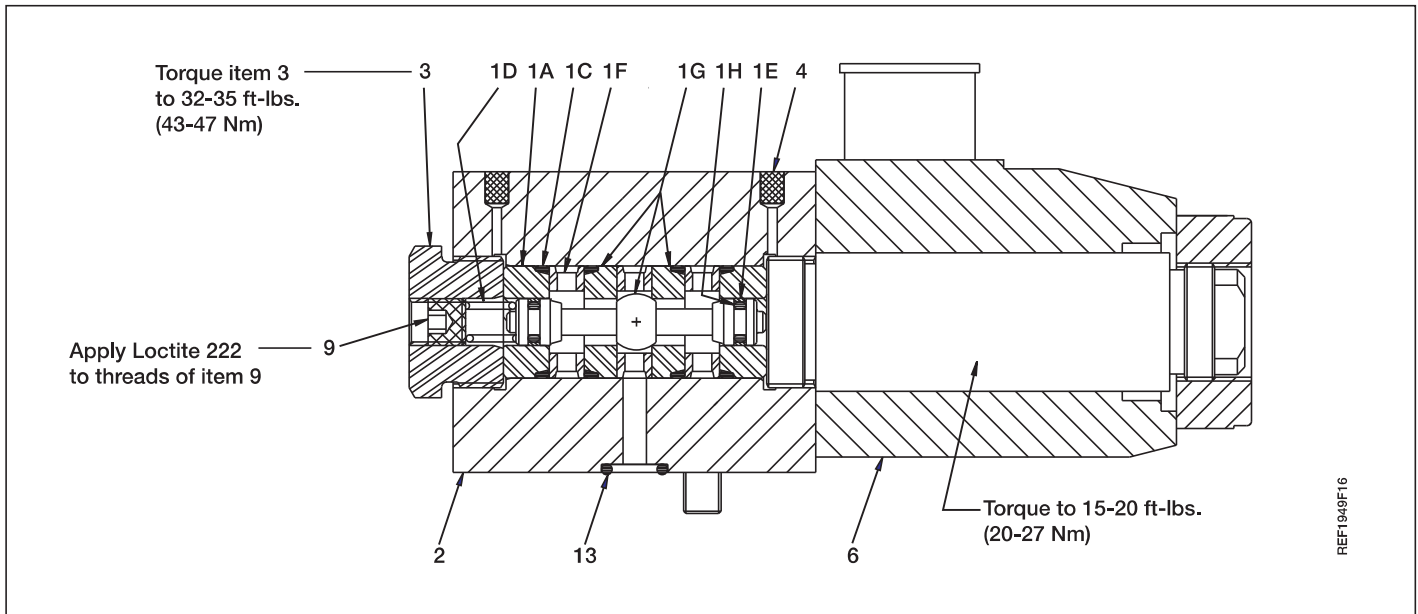


Figure 13, Poppet Valve Assembly

Repair Parts List for Figure 13

Item	Part Number	Qty.	Description	Item	Part Number	Qty.	Description
1	DA5792949SR	1	Valve Stack (inc. items 1A-1H)	2	DA4393190	1	Valve Block Body
1A	DA3697039	2	Bushing	3	DA5421009	1	Valve Plug
1C	B1016803	4	O-ring	4	DA4390118	2	Filter
1D	DA5422110	1	Comp. Spring	6	DA4405900	1	Solenoid Assembly (115V)
1E	CH279044	2	Glyd Ring		DA5714900	1	Solenoid Assembly (230V)
1F	DA3698290	3	Seat Spacer	9	PA1417027	1	Set Screw
1G	DC862949	1	Poppet Set	13	B1011803	3	O-Ring
1H	B1002503	2	O-Ring				

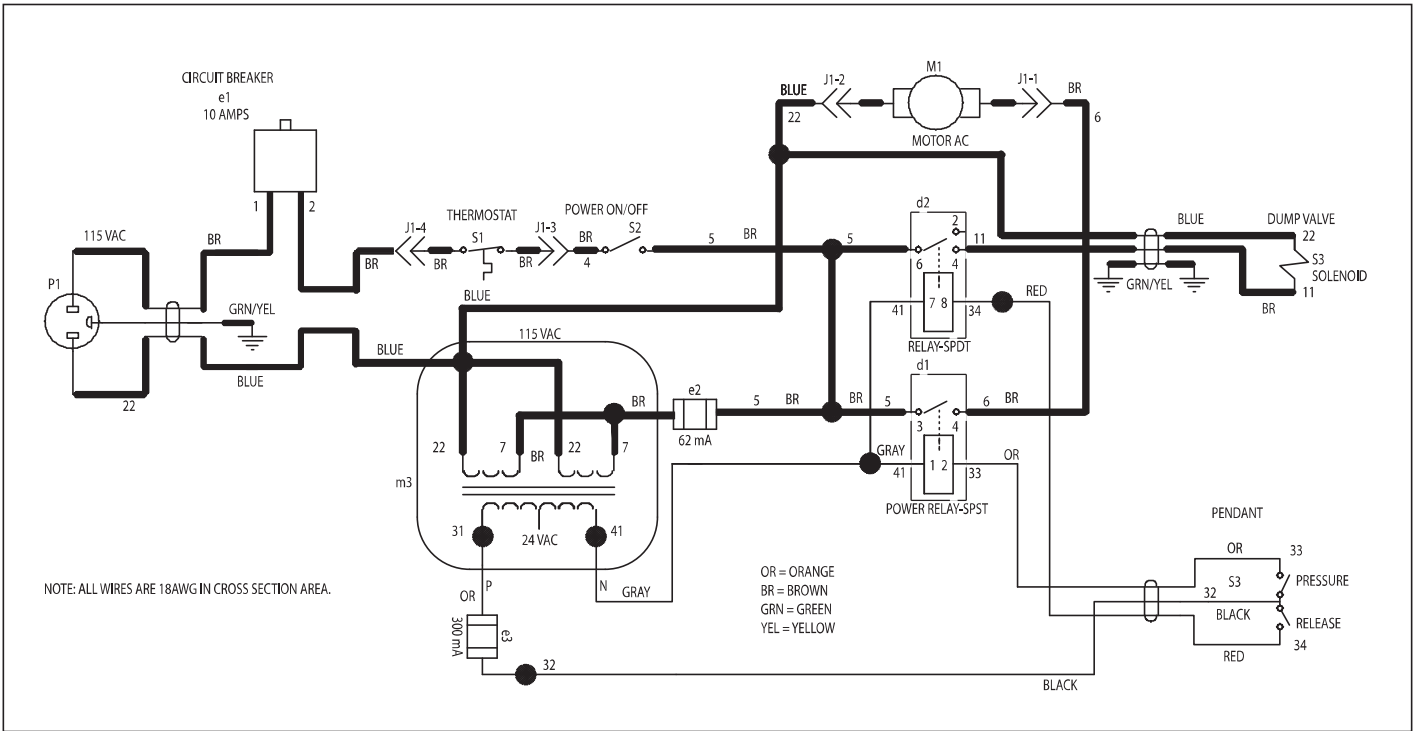


Figure 14, Electrical Schematic (115V Models)

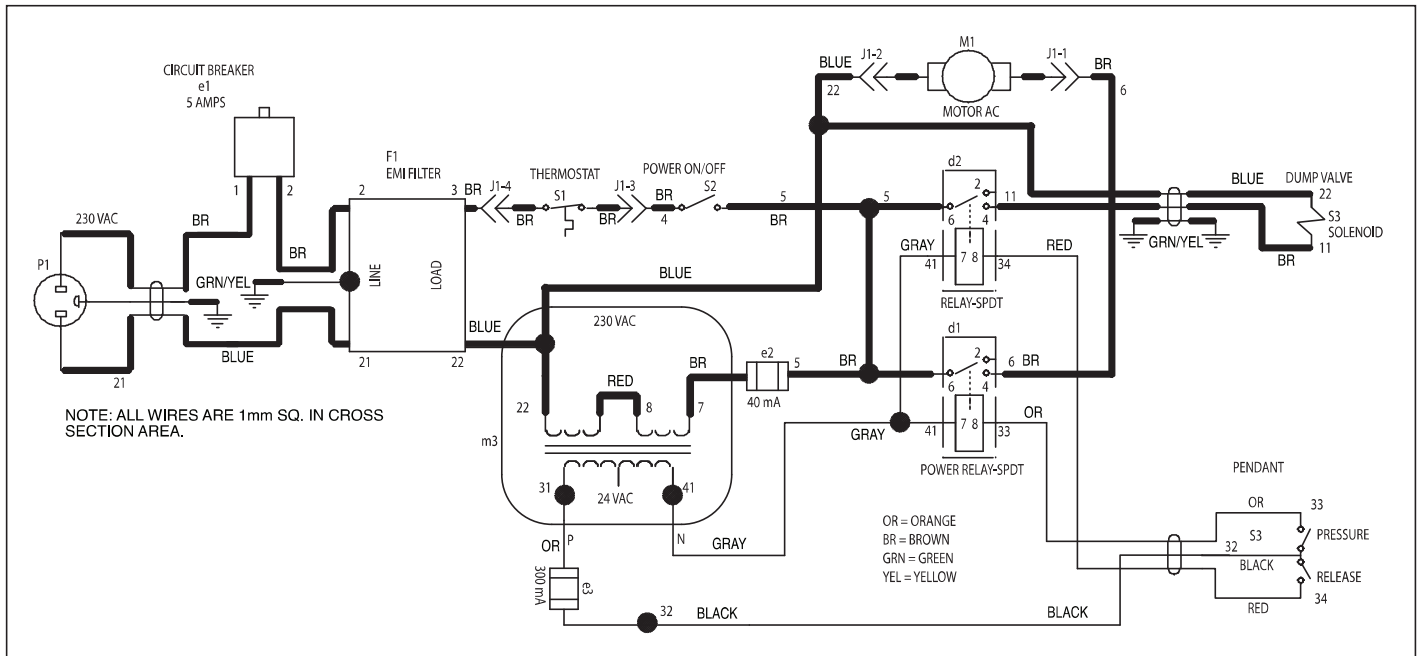


Figure 15, Electrical Schematic (230V Models)

Figure	Item No.	Torque Specification and/or Assembly Notes
1	18	Apply 1 drop Loctite #242 to threads. Torque to 12 to 18 in-lbs (1,4 to 2,0 Nm).
1	154	Torque to 27-31 in-lbs (3,1 to 3,5 Nm).
1	Note 1	Install bearing, Item 117, flush to 0,010" (2,54 mm) recessed from surface.
2	10	Trim wire length to 9 to 10 inches (228 - 254 mm) before attaching pins (item 10). Then insert into item 24.
2	15	Torque to 27 to 31 in-lbs, (3,1 to 3,5 Nm).
3	123	Torque to 15 to 16 ft-lbs (20,0 to 21,7 Nm) lubricated.
3	130,131	Torque to 15 to 20 ft-lbs (20 to 27 Nm).
4	15	Torque to 27-31 in-lbs (3,1 to 3,5 Nm).
4	109	Torque to 14 to 16 ft-lbs, dry (19,0 to 21,7 Nm).
4	121	Torque to 16-19 ft-lbs, dry (21,7 to 25,8 Nm).
4	143	Align tube to face mesh and splash lubricate upper needle bearing.
4	146	Seat must be coined prior to assembly.
4	148	Assemble with Loctite #545.
4	150	Relief valve setting should be from 250 to 400 psi (17,3 to 27,9 bar).
4	190	Assemble with Loctite #609.
4	Note 2	Stake threads after setting pressure.
6	149	Torque to 8 to 10 ft-lbs (10,8 to 13,5 Nm).
6	5	Torque to 47-53 in-lbs (5,3 to 6,0 Nm). Use Loctite #242 on item #5.
6	8	Torque to 9-12 in-lbs (1,0-1,3 Nm).
6	24	Attach to receptacle on shroud.
12	3, 5	Connect black wire of pendant cord (labeled "32") to terminal "A" of switch. Connect orange wire of pendant cord (labeled "33") to terminal "B" of switch.
12	5	Torque switch screw terminals to 5.0-5.5 in-lbs (0,56-0,62 Nm) after making connections.
12	7	Torque to 14-16 in-lbs (1,6-1,8 Nm).

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