

To Protect Your Warranty, Use Only ENERPAC Hydraulic Oil.

Enerpac recommends that all kit components be installed to insure optimum performance of the repaired product.

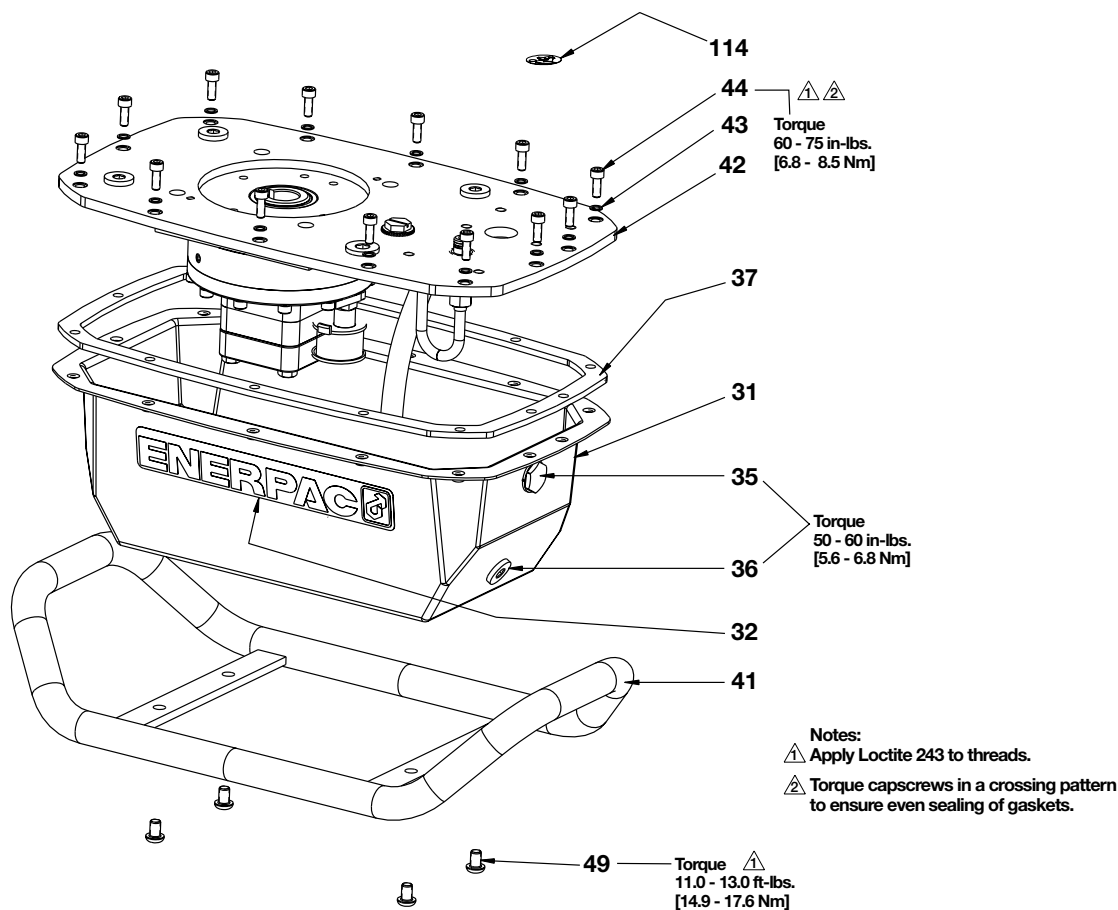


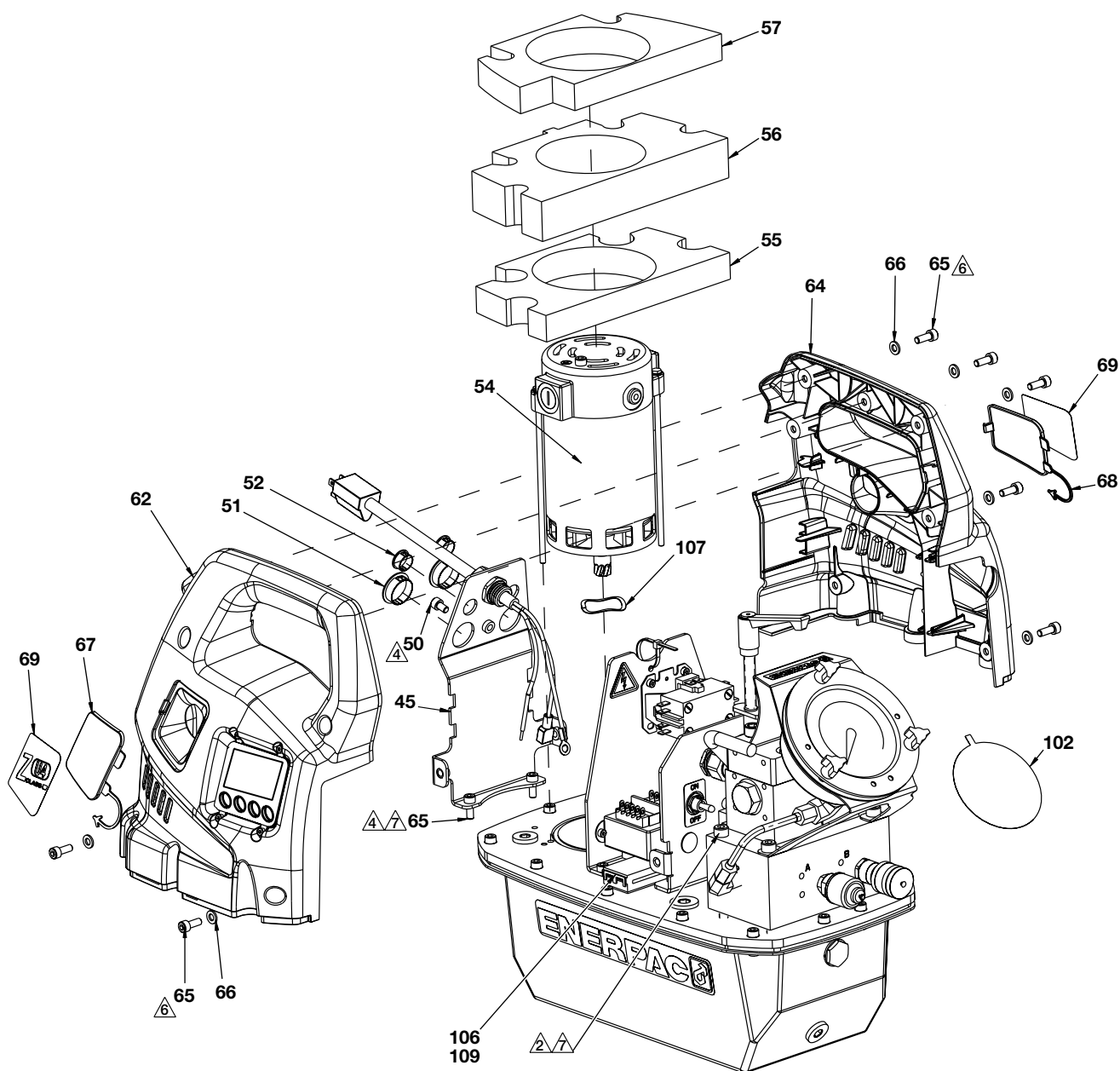
Figure 1, Reservoir Assembly

Repair Parts List for Figure 1

Item	Part Number	Qty.	Description	Item	Part Number	Qty.	Description
31	DC9379025SR	1	Reservoir, 4L (includes items 32, 35, 36 and 37)	41	◆ SBZ-4	1	Skid Bar w/o Heat Exch.
	DC8136025SR	1	Reservoir, 8L (includes items 32, 35, 36 and 37)		◆ SBZ-4L	1	Skid Bar w/ Heat Exch.
32	★ DC9596026	2	Decal, Enerpac	42	(See Figure 3)	1	Assembly, Pump
35	DC85900SR	1	Sight Glass, 4L and 8L	43	★ S3037	13	Gasket
36	DC8249006	1	Plug, Magnetic, SAE #8	44	CBE619028-1A	13	Screw, SHCS M6 x 16
37	★ DC9551920	1	Gasket, Reservoir	49	CBE817028-1E	4	BHCS M8 x 12 mm
				114	DC9920026	1	Decal, Read Instructions

★ Items included in and available only as part of Repair Kit ZU4TK.

◆ Skid bar includes screws, item 49.



Notes:

- △ Torque to 16 - 19 ft-lbs. [21.7 - 25.8 Nm]
- △ Torque to 84 - 108 in-lbs. [9.5 - 12.2 Nm]
- △ Torque to 18 - 26 in-lbs. [2.0 - 2.9 Nm]
- △ Apply Loctite 545 to threads.

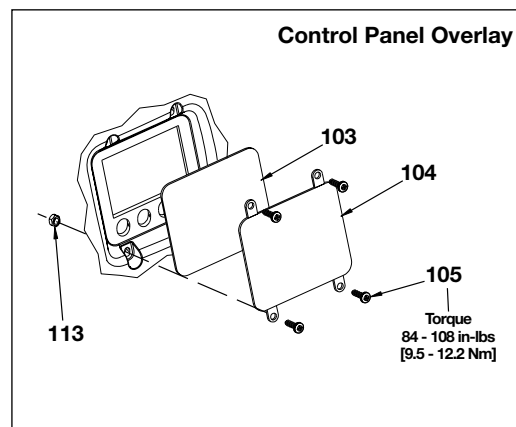


Figure 2A, Pump Assembly (exploded view)

Repair Parts List for Figures 2A and 2B

Item	Part Number	Qty.	Description	Item	Part Number	Qty.	Description
45	DC9405111	1	Back Bracket	64	DC9641424	1	Enclosure, Right ZU4
47	B1223503	1	O-Ring	65	CBE619028-1A	15	SHCS M6X1X10
48	DC9538021	1	Lock Nut 20mm	66	CAE1060108-1A	9	6mm Washer
50	CBE615028-1A	2	SHCS M6X10mm	67	DC9414424	1	Brush Cap, Left
51	DC9435009	2	Dome Plug 1"	68	DC9413424	1	Brush Cap, Right
52	DC9436009	2	Dome Plug 16mm	69	★DC9598026	1	Decal, Brush Cap
54	(See Figure 8)	1	Motor, 115V ZU4	70	★DD1432037	1	Gasket, Valve
		1	Motor, 230V ZU4	71	(See RPS L2908)	1	Valve, Torque Wrench
55	DC9401298	1	Baffle, Lower ZU4	102	DD1393026	1	Label
56	DC9400298	1	Baffle, Middle ZU4	103	DC8241037	1	Gasket, Overlay
57	DC9400298	1	Baffle, Upper ZU4	104	DC8240026	1	Overlay
58	(See Figure 4)	1	Assembly, Middle Bracket	105	CBE415028-1A	4	SHCS M4
59	DC9444960	1	Power Cord - 115V 15 Amp	106	DC9740969	1	Ferrite
	DC9445960	1	Power Cord - 230V w/NEMA 5-15 plug	107	DC9661066	1	Washer, Wavy
	DC8288960	1	Power Cord - 230V European plug, CE RF Compliant.	108	DC9653028	2	Bolt, #10-32 x 6.5"
60	(See Figure 4)	1	Assembly, Front Bracket	109	DC9951405	1	Velcro, 2"
61	DC6876647	5	Cable Tie, Black	113	CBE1040120-1D	4	Nut, M4
62	DC9640424	1	Enclosure, Left ZU4	115	B1080066	2	Washer, Lock
				148	DC8260026	1	Decal, Spec (not shown)
				320	DC7078900	1	Kit, Overlay (not shown)

★ Items included in and available only as part of Repair Kit ZU4TK.

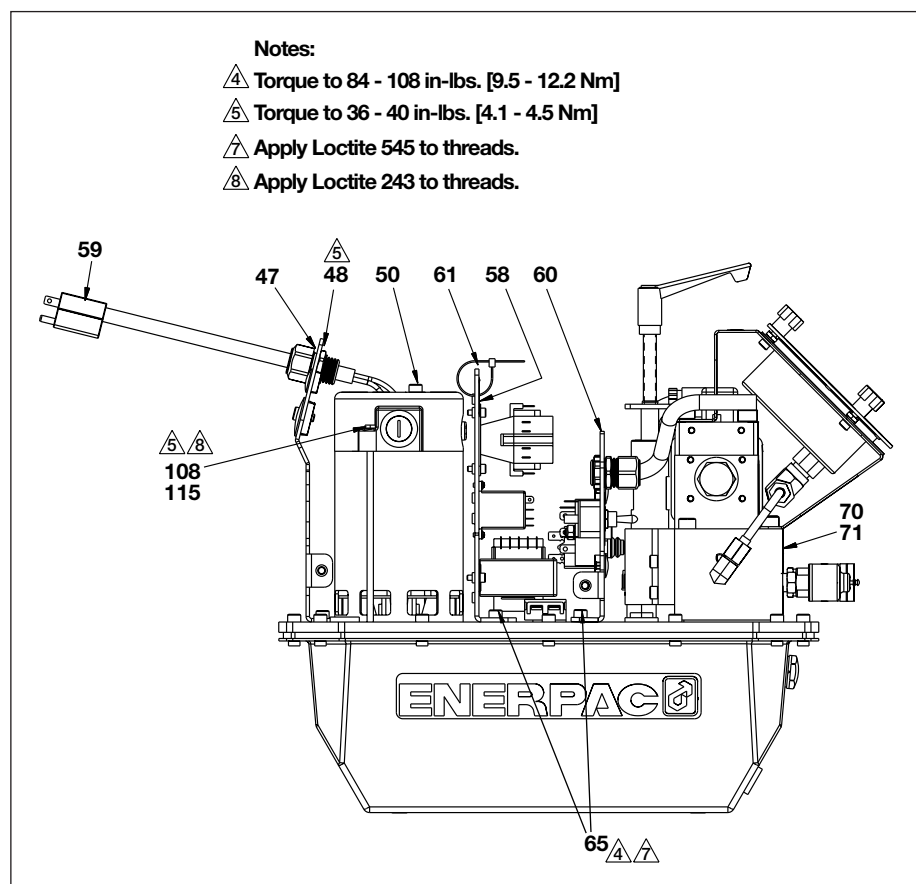
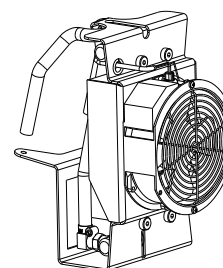


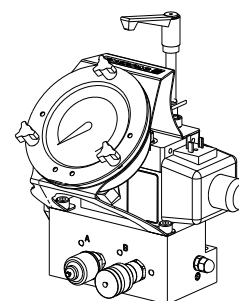
Figure 2B, Pump Assembly (side view)

Heat Exchanger (Optional Accessory)



See Repair Parts Sheet L2752

Control Valve & Manifold Assemblies (item 71)



See Repair Parts Sheet L2908

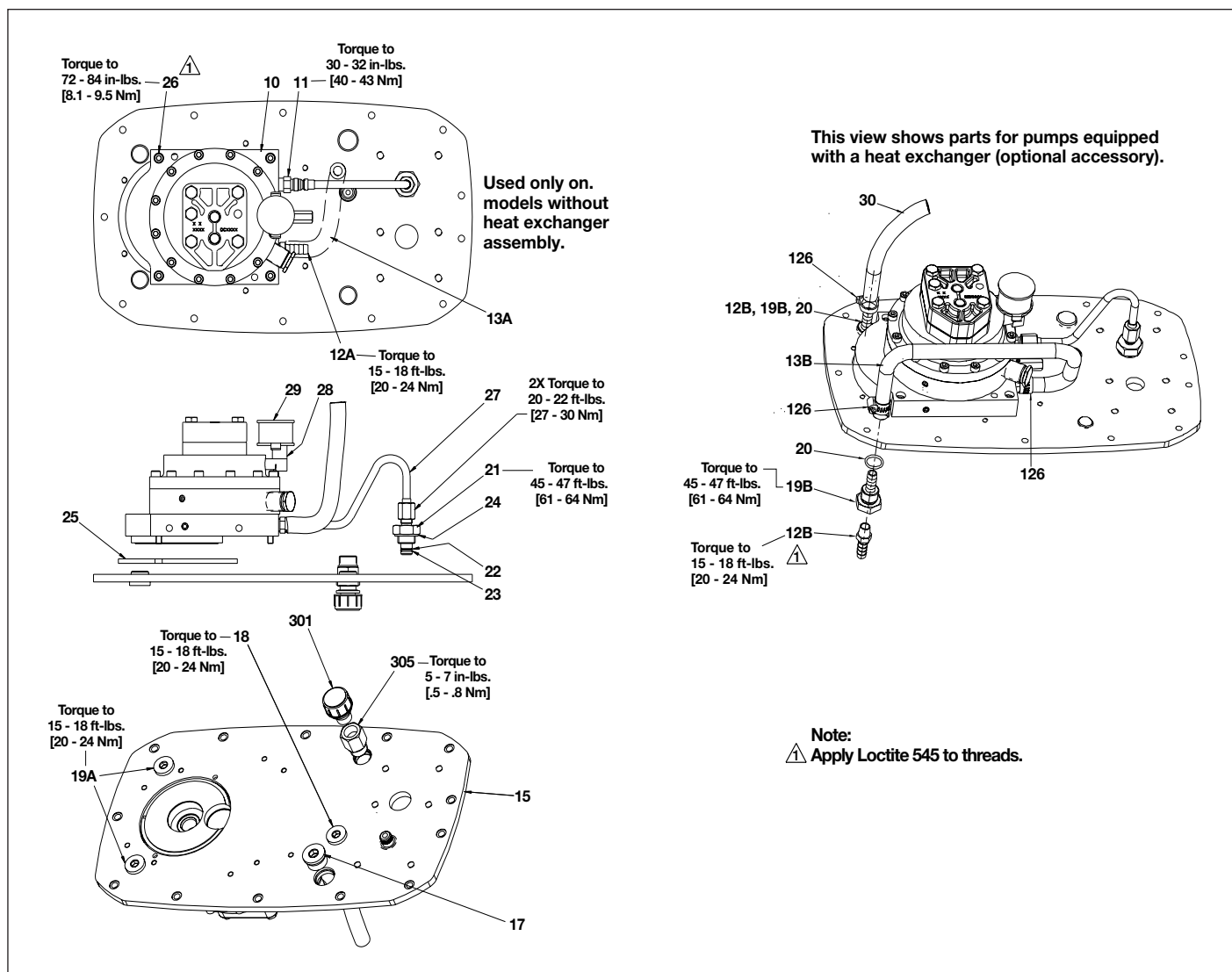


Figure 3, Pump Coverplate and Element Assembly

Repair Parts List for Figure 3

Item	Part Number	Qty.	Description	Item	Part Number	Qty.	Description
10	(See RPS L2596)	1	Pump Element Assy.	22	★ BSS0368D	1	Back-up
11	F100094-246	1	Fitting 5-4 FTX-S	23	★ B1012803	1	O-Ring
12A	F100097-16	1	Fitting, Standard Pump	24	★ DC9271167	1	Copper Gasket
12B	F100097-16	2	Fitting, Heat Exc. Pump	25	★ DC9551920	1	Gasket, Universal Pump
13A	DC9335646	1	Hose, Bypass 8"	26	CBE621028-1A	2	SHCS, M6 X 20
13B	DC9416646	1	Hose, Heat Exc. Pump 23"	27	DC9447920	1	Tube Assy, Steel, ZU
15	DC9407101	1	Cover Plate, Universal	28	DC9600268	1	Intake Tube, 1.6" 4L & 8L
17	B1007006	1	Plug SAE #10	29	DC9178118	1	Intake Filter
18	B1006006	1	Plug, Socket, SAE #8	30	DC9418646	1	Return Hose, Heat Exc.
19A	B1006006	2	Plug, SAE #8 Std. Pump	126	DC9639299	2	Clamp, Heat Exc. Pump
19B	DC9273097	2	Fitting, Heat Exc. Pump	301	DC8250006	1	Breather Assembly
20	★ B1908503	2	O-Ring, Heat Exc. Pump	305	F100096-38	1	Adapter Fitting
21	DC9173690	1	Connector Fitting				

★ Items included in Seal Kit ZU4TK.

See Figure 10 for electrical diagram.

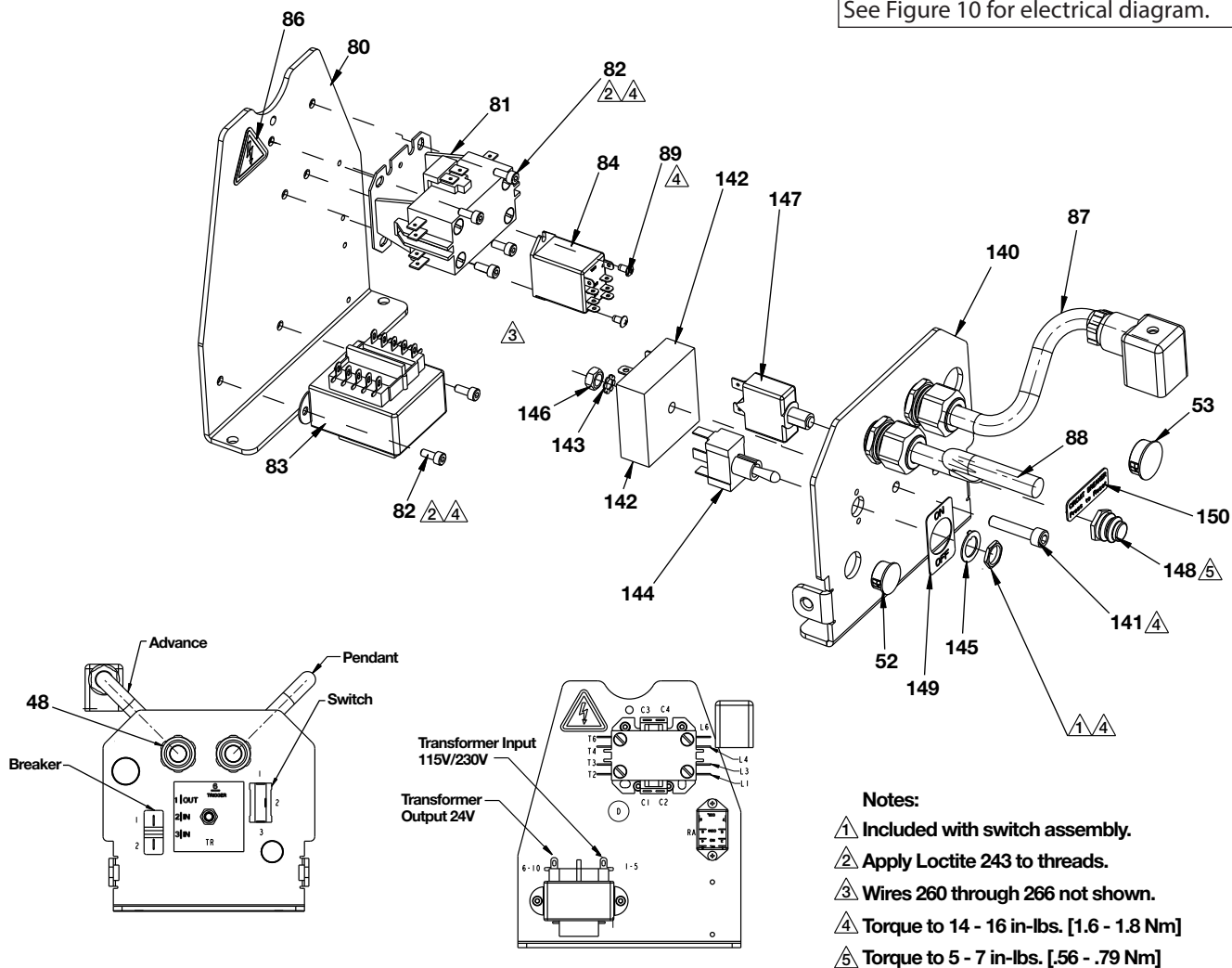


Figure 4, Front and Middle Bracket Assemblies

Repair Parts List for Figure 4

Item	Part Number	Qty.	Description	Item	Part Number	Qty.	Description
48	DC9538021	2	Locking Nut, 20mm	143	CCE1060108-6A	1	Starwasher, 6mm
52	DC9436009	1	Plug, Dome, 16mm	144	DC8307372	1	Switch, Motor
53	DC9437009	1	Plug, Dome, 20mm	145	DC8230108	1	Ring, Locking
80	DC8354111	1	Bracket, Middle, PT/BTW	146	CBE1060120-1D	1	Nut, 6mm
81	DC8193398	1	Contactor	147	DC8309380	1	Circuit Breaker, 12A (230V)
82	CBE415028-1A	6	Screw, SHCS M4 x 10		DC8308380	1	Circuit Breaker, 25A (115V)
83	DC8279480SR	1	Transformer	148	DC8200380	1	Cap, Circuit Breaker
84	DC8280980	1	Relay	149	DC8292026	1	Decal, On-Off
86	DC9922026	1	Decal, High Voltage	150	DC8237026	1	Decal, CB Reset
87	DD1273960	1	Cable, Solenoid	260	▲ DC8317960	1	Wire, Contactor to timer
88	DD1275900	1	Pendant Assy (See Fig. 5)	261	▲ DD1263960	1	Power Cable, Solenoid
89	DA3639028	2	Self Tapping Screw	263	▲ DC8314960	2	Wire, Transformer Output
140	DC8353111	1	Bracket, Front, PT/BTW	264	▲ DC8313960	2	Wire, Contactor to Transformer
141	CBE625028-1A	1	Screw, M6 x 1 x 30 Zinc	266	▲ DD1264960	1	Wire, Contactor to relay and timer
142	DC8281784	1	Timer, 15 Sec. BTW				

▲ Items 260 through 266 not shown.

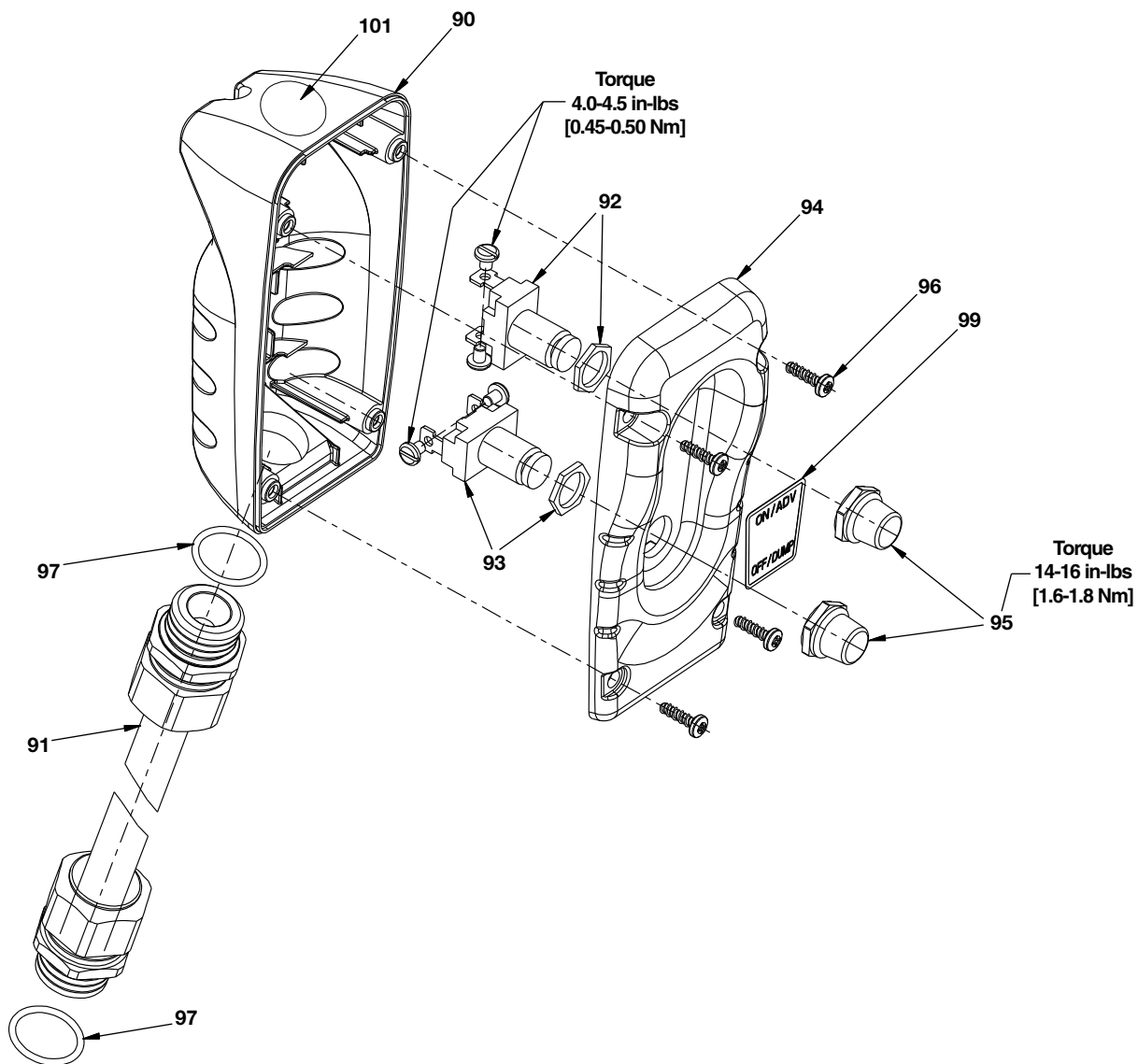
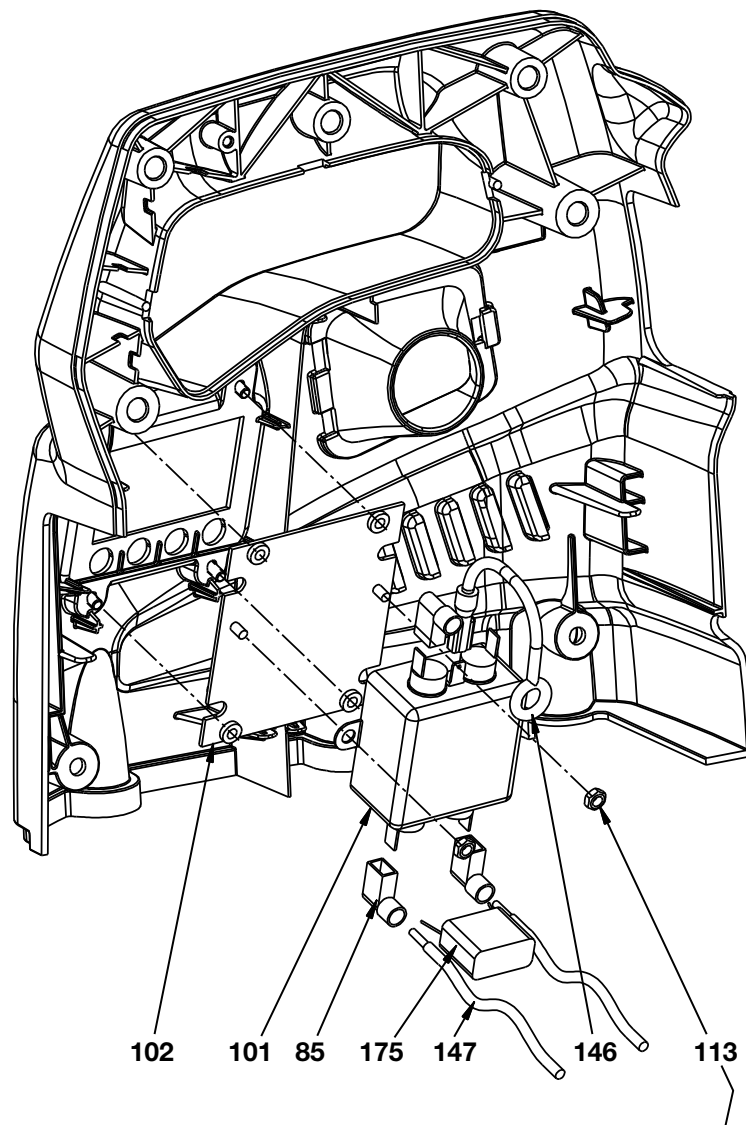


Figure 5, Pendant Assembly

Repair Parts List for Figure 5

Item	Part Number	Qty.	Description	Item	Part Number	Qty.	Description
90	DC9425424	1	Enclosure, Lower	95	DC8284379	2	Switch Cover
91	DD1276960	1	Pendant Wire, BTW	96	DC9428008	4	Screw, Hi-Low #8 x 1/2
92	DC8282379	1	Pendant Button, NO	97	B1223503	2	O-Ring
93	DC8283379	1	Pendant Button, NC	99	DC8127026	1	Decal, Pendant
94	DC8122424	1	Enclosure, Upper	101	DD1394026	1	Decal, Pressure Relief

Note: Pendant Kit DD1275900SR includes all items shown above.



Note: Apply Loctite 243

Figure 6, Shroud Assembly with R/F Filter (CE Models Only)

Repair Parts List for Figure 6

Item	Part Number	Qty.	Description	Item	Part Number	Qty.	Description
85	E1001352	4	Flag Connector, 1/4"	146	DC9583960	1	Ground Earth Wire
101	DC9580380	1	RF In-line filter	147	DD1590960	1	RF Filter Cable (brown)
102	DC8290111	1	CE Bracket	148	DD1591960	2	RF Filter Cable (blue)
113	CBE1040120-1D	2	Nut, M4	175	DC9579382	1	Capacitor, 1 Microfarad

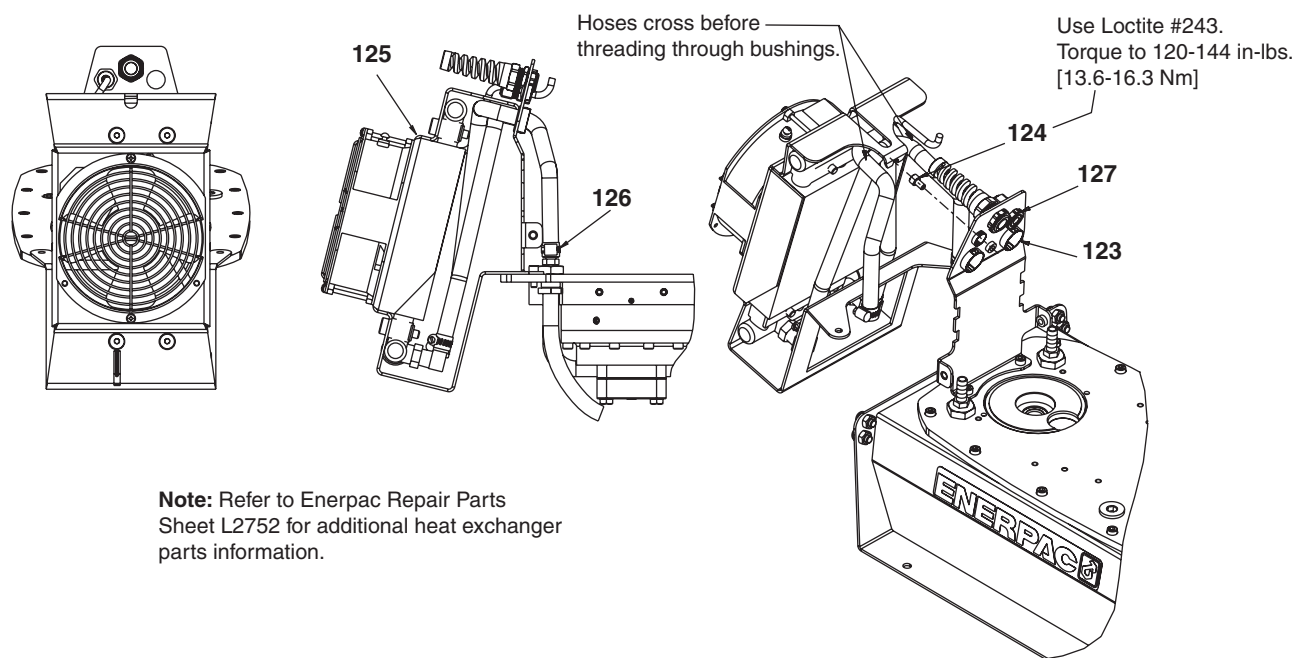


Figure 7, Heat Exchanger, 115 and 230 VAC Fan

Repair Parts List for Figure 7			
Item	Part Number	Qty.	Description
123	+ ❖ DC9690808	2	Grommet Rubber .69"-1"
124	+ ❖ CBE615028-1A	1	M6X10 SHCS
125	+ DC8375900	1	Heat Exch Assy, 115 VAC
	❖ DC8376900	1	Heat Exch Assy, 230 VAC
126	+ ❖ DC9639299	2	Hose Clamp, 3/8-7/8
127	+ ❖ DC9537021	1	Locking Nut, 16 mm
+ Items included as part of Heat Exchanger Kit ZHE-U115 (115V).			
❖ Items included as part of Heat Exchanger Kit ZHE-U230 (230V).			

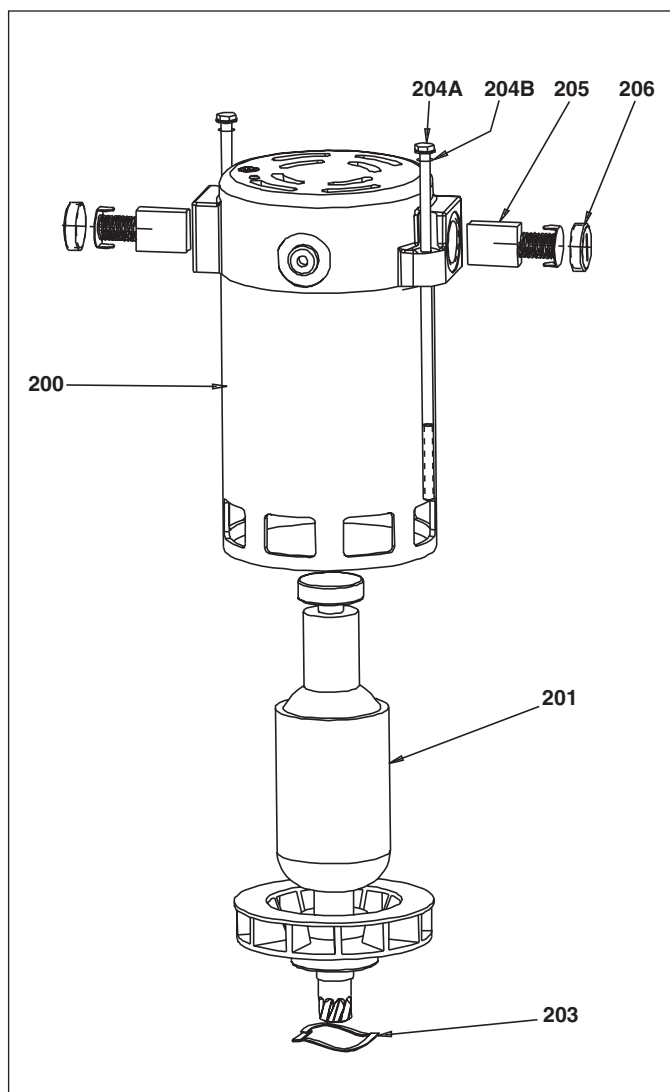


Figure 8, Motor Assembly

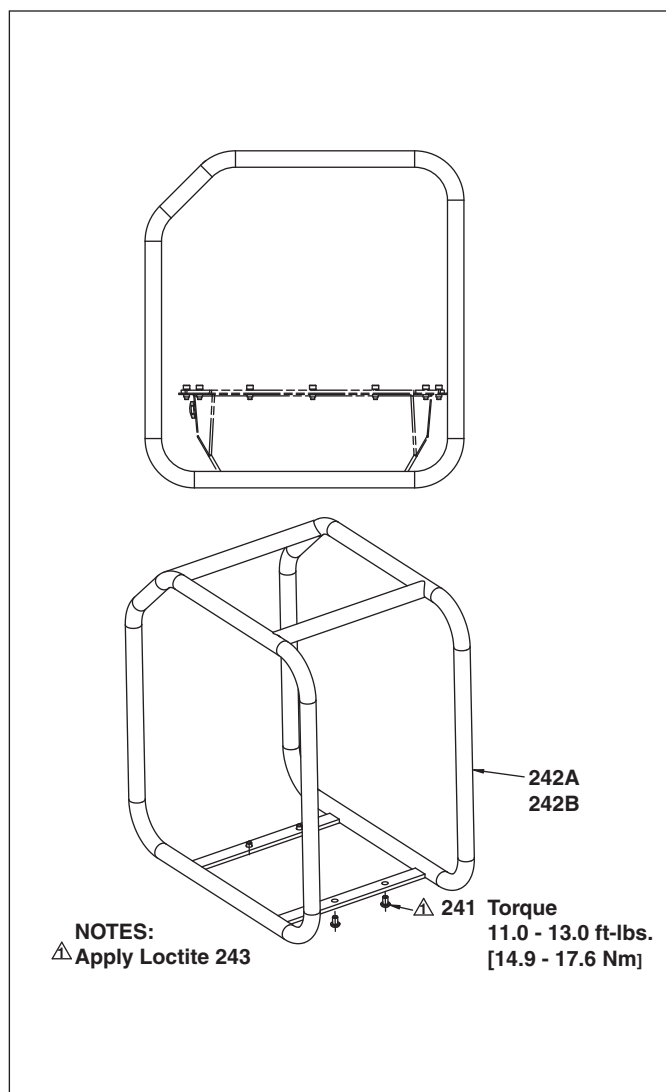
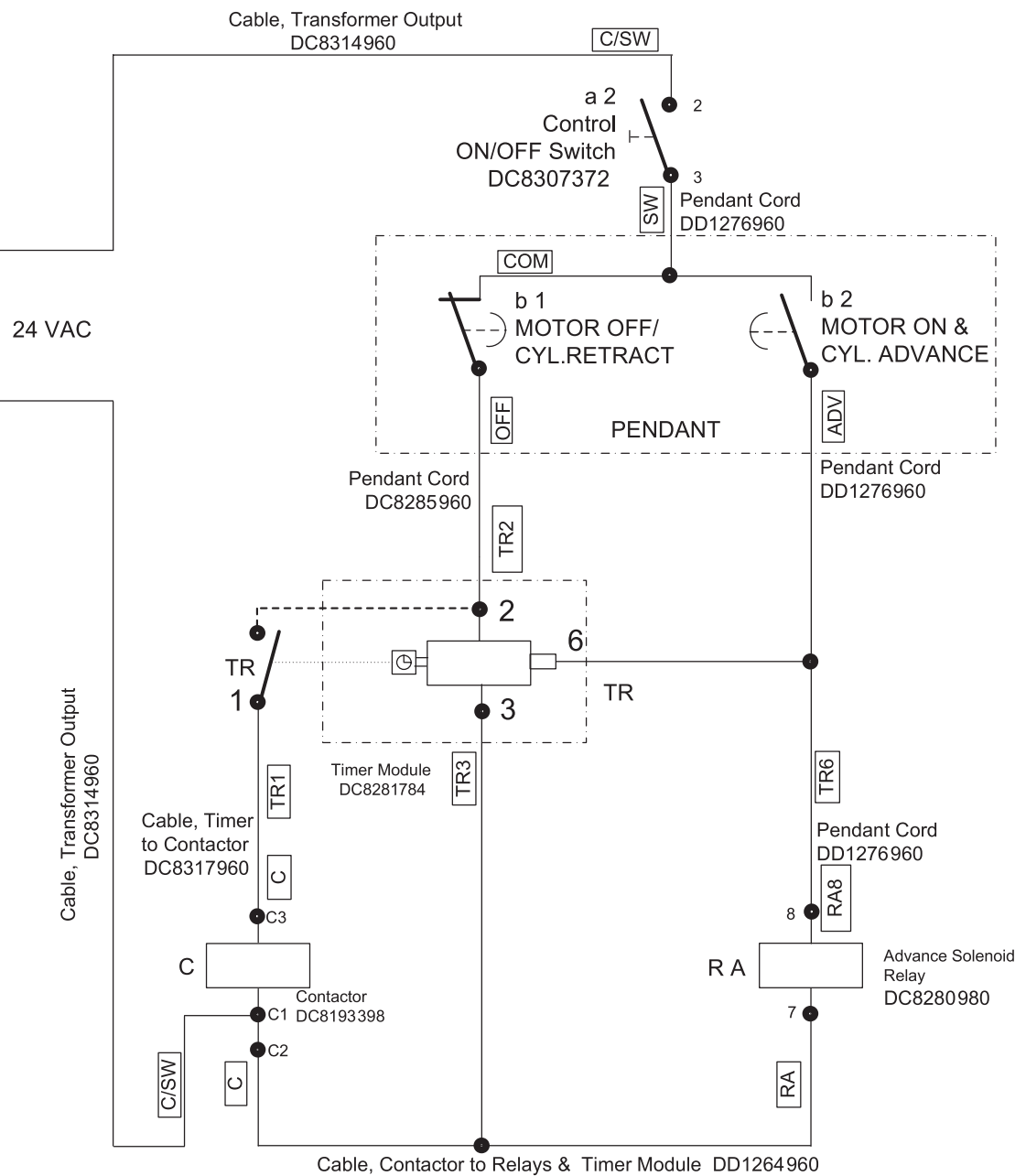


Figure 9, Roll Bar Assembly

Repair Parts List for Figure 8			
Item	Part Number	Qty.	Description
85	▲▼ E1001181	2	Terminal, Flag (not shown)
200	Not available	-	Housing (order complete motor)
201	▲ DC8246736	1	Armature, 115V, ZU4
	▼ DC8247736	1	Armature, 230V, ZU4
203	▲▼ DC9661066	1	Spring Washer
204A	▲▼ DC9653028	2	Bolt #10-32 x 6.5"
204B	▲▼ B1080066	2	Washer, Lock
205	▲▼ DC9656259	2	Brush, ZU4
206	▲▼ DC9655020	2	Brush Cap, ZU4
▲ Items included as part of DC8244259SR Motor Kit (115V).			
▼ Items included as part of DC8245259SR Motor Kit (230V).			

Repair Parts List for Figure 9			
Item	Part Number	Qty.	Description
241	❖ *CBE817028-1E	4	BHCS M8 x 12
242A	❖ DC8040920	1	Roll Cage, 4L & 8 L, w/o HX
242B	* DC8323920	1	Roll Cage, 4L & 8 L, w/ HX
❖ Items included as part of roll bar kit ZRC-04.			
* Items included as part of roll bar kit ZRC-04H.			

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FUNCTIONAL CHART:

DESCRIPTION	a2	b1	b2	RA	TR	C	M1 & M2	S1
	OFF	released	released	OFF	OFF	OFF	STOP	OFF
	ON	released	released	ON	OFF	OFF	STOP	OFF
C, M1 and M2 will be off after the time delay	ON	released	pressed and released	ON	ON	ON	RUN	ON
	ON	pressed	released	OFF	OFF	OFF	STOP	OFF

Figure 10, Electrical Diagram, ZU4 Classic Torque Wrench Pump (View 2 of 2)

Troubleshooting Guide			
Symptoms:	Probable Causes:	Check and/or inspect:	Corrective Action:
1. Pump does not start when ON/ADV button is pressed.	a. Power cord unplugged.	a. Is the power cord plugged-in?	a. No: Plug-in the power cord.
	b. Pump on/off switch in "OFF" position.	b. Is the switch in the "OFF" position?	b. Yes: Move the switch to the "ON" position.
	c. No power or line voltage too low.	c. Does the power outlet provide the required voltage and current? Check description, check line voltage, check line fuses/circuit breaker.	c. No: Replace blown fuses and/or change over to an outlet with the appropriate voltage and current rating.
	d. Power cord damaged.	d. Are there any visible damages (kinks, loose wire, missing insulation, etc.) on the power cord?	d. Yes: Replace the power cord.
	e. Pendant cord damaged.	e. Are there any visible damages (kinks, loose wire, missing insulation, etc.) on the pendant cord?	e. Yes: Replace the pendant cord.
	f. Pump circuit breaker (A1) tripped.	f. Is the pump circuit breaker button extended?	f. Yes: Push the pump circuit breaker button to reset.
	g. Motor brushes need replacement.	g. Are the brushes worn down (.25" or less), damaged or burnt-out?	g. Yes: Replace the brushes.
	h. Transformer (m3) defective. ♦	h. Is 24 VAC present at the transformer secondary terminals?	h. No: Replace the transformer (m3).
	i. Relay (RA) defective. ♦	i. Is the relay (RA) energized when the ON/ADV button (b2) is depressed?	i. No: Replace the relay (RA).
	j. Timer module (TR) defective. ♦	j. Does the timer Module "TR" contact close when the ON/ADV button (b2) is depressed?	j. No: Replace the timer module (TR).
	k. Contactor (C) defective. ♦	k. Do the contactor "C" contacts close when the ON/ADV button (b2) is depressed?	k. No: Replace the contactor (C).
	l. Pump element mechanically blocked. ♦	l. Does the motor (M1) try to start but not rotate when the motor is switched-on?	l. Yes: Remove and inspect the pump element. Repair or replace if necessary. Refer to Enerpac Repair Parts Sheet L2596 for additional information.
	a. Power cord damaged.	a. Is there any visual damage (kinks, loose wire, missing insulation, etc.) on the power cord?	a. Yes: Replace the power cord.
	b. Line voltage too low.	b. Does the power outlet provide the required voltage and current? Check description, check line voltage, check line fuses/circuit breaker.	b. No: Replace blown fuses and/or change over to an outlet with the appropriate voltage and current rating.
	c. Pump circuit breaker (A1) tripped.	c. Is the pump circuit breaker button extended?	c. Yes: Push the pump circuit breaker button to reset.
	d. Automatic shut-off has occurred.	d. Does the pump motor shut off approximately 15-20 seconds after the ON/ADV button is released?	d. Yes: Normal operation. Timer module (T1) automatically shuts-off pump if the ON/ADV button is not depressed again within approximately 15-20 seconds.
	2. Pump stops running during idle or normal operation.		

♦ It is recommended that these troubleshooting steps be performed by an Enerpac Authorized Service Center. To find your nearest Enerpac Authorized Service Center, please visit us at www.enerpac.com. Contact information for Enerpac worldwide locations can be found on the back page of this document.



WARNING: Disconnect power cord from outlet before removing pump shroud or beginning any repairs.

Important: all repair procedures should be performed only by a trained and qualified repair technician.

Troubleshooting Guide (Continued)

Symptoms:	Probable Causes:	Check and/or inspect:	Corrective Action:
3. Wrench does not advance when ON/ADV button is depressed and held down.	a. User adjustable relief valve set too low.	a. Is pressure set high enough for the bolting application?	a. No: Raise relief valve pressure. Refer to Enerpac Instruction Sheet L2906 for adjustment procedure.
	b. Torque greater than wrench capacity at full pressure.	b. Is torque wrench sized too small?	b. Yes: Use torque wrench with larger capacity.
	c. Advance flow line restricted or blocked.	c. Is a restriction in flow suspected?	c. Yes: Check couplers for full engagement.
	d. Advance solenoid coil (S1) defective. ♦	d. Is line voltage present at terminals of advance solenoid coil (S1)?	d. Yes: Replace advance solenoid coil (S1).
	e. Relay (RA) defective. ♦	e. Does the relay (RA) close when the ON/ADV button (b2) is depressed?	e. No: Replace the relay (RA).
	f. Control valve out of adjustment or damaged. ♦	f. Is the control valve operating properly?	f. No: Repair or replace control valve. Refer to Enerpac Repair Parts Sheet L2908 for additional information.
	g. Pump element worn or damaged. ♦	g. Does the pump appear to be operating properly?	g. No: Remove and inspect the pump element. Repair or replace if necessary. Refer to Enerpac Repair Parts Sheet L2596 for additional information.
	a. Return flow line restricted or blocked.	a. Is a restriction in flow suspected?	a. Yes: Check couplers for full engagement.
	b. Control valve out of adjustment or damaged. ♦	b. Is the control valve operating properly?	b. No: Repair or replace control valve. Refer to Enerpac Repair Parts Sheet L2908 for additional information.
4. Wrench will not retract when ON/ADV button is released.	c. Pump element worn or damaged. ♦	c. Does the pump appear to be operating properly?	c. No: Remove and inspect the pump element. Repair or replace if necessary. Refer to Enerpac Repair Parts Sheet L2596 for additional information.
	a. Timer module (TR) defective.	a. Does the pump continue running for more than 20 seconds after the ON/ADV button is released?	a. Yes: Replace Timer Module (TR).
5. Pump does not automatically shut-off after ON/ADV button is released.			

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Troubleshooting Guide (Continued)			
Symptoms:	Probable Causes:	Check and/or inspect:	Corrective Action:
6. Pump fails to build pressure or builds less than full pressure.	a. Low oil level.	a. Check oil level in sight glass. Is oil level low?	a. Yes: Add oil as required. Refer to Enerpac Instruction Sheet L2906 for instructions.
	b. Relief valve set too low. ♦	b. Is the relief valve set too low for the application?	b. Yes: Raise the relief valve setting. Refer to Enerpac Instruction Sheet L2906 for adjustment procedure.
	c. External system leak.	c. Is an external leak visible?	c. Yes: Repair leak(s) as required.
	d. Torque wrench malfunctioning.	d. Does the torque wrench appear to be operating properly?	d. No: Repair torque wrench in accordance with manufacturer's instructions.
	e. Control valve out of adjustment or damaged. ♦	e. Is the control valve operating properly?	e. No: Repair or replace control valve. Refer to Enerpac Repair Parts Sheet L2908.
	f. Pump element worn or damaged. ♦	f. Does the pump appear to be operating properly?	f. No: Remove and inspect the pump element. Repair or replace if necessary. Refer to Enerpac Repair Parts Sheet L2596 for additional information.
7. Pump runs hot.	a. Advance or retract flow restricted.	a. Is a restriction in flow suspected?	a. Yes: Check couplers for full engagement.
	b. High ambient temperature.	b. Is the pump running hot?	b. Yes: Install a heat exchanger.
	c. Heat exchanger airflow restricted (models equipped with heat exchanger only).	c. Is heat exchanger airflow obstructed?	c. Yes: Remove any dirt from heat exchanger vents. Be sure that airflow is not obstructed by objects or walls.
	d. Heat exchanger fan not operational (models equipped with heat exchanger only).	d. Does the fan turn-on when the pump motor is on?	d. No: Check heat exchanger fan motor and wiring. Repair or replace components as required.

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