

Repair Parts Sheet

Electric Torque Wrench Model ETW6000

Document	Document	Document	Product Date Code
Number	Revision	Revision Date	Beginning With
L4089	D	04/2017	

NOTICE:

Enerpac recommends that all parts included in a service assembly or repair kit be installed to ensure optimum performance of the repaired product.

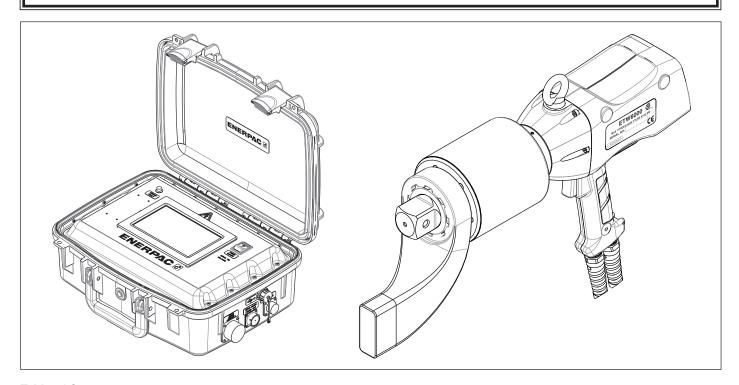
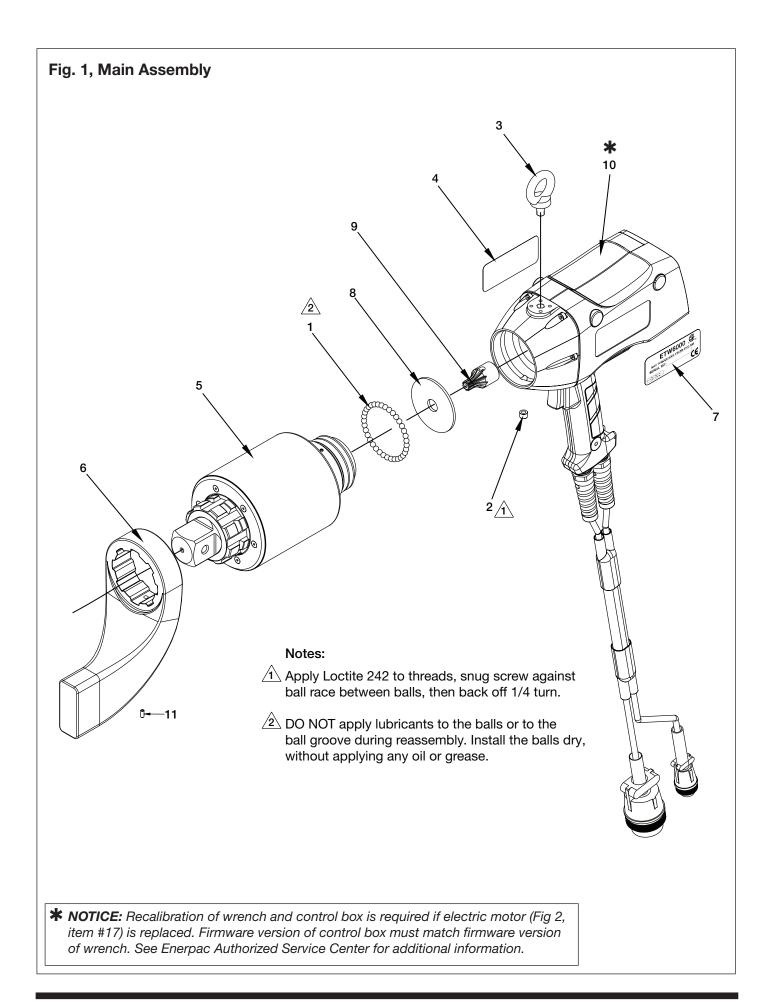


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▲ WARNING Before beginning any maintenance, repair, adjustment or inspection procedures, disconnect electrical control box cord from AC power supply. Disconnect wrench electrical cables from control box. Failure to observe these precautions could result in death or serious personal injury.



	Repa	ir Par	ts List, Fig. 1	L4089
Item	tem Part Number Qty. Description		Description	
1	★ B1007016	35	Ball, 1/4" diameter	
2	★BF3804027A	1	Set Screw	
3	CAA1100028-4C	1	Eyebolt	
4	+DD4517026	4	Decal, Brand ETW	
5	♦ (See Fig. 3)	1	Assembly, Gear Box	
6	* ♦ DD5342900SR	1	Reaction Arm (standard)	
7	DD5355026	1	Decal, ETW6000, Serial No.	
8	☆ DD5356108	1	Washer, Delrin, ETW	
9	DD5357229	1	Pinion, Input, ETW	
10	+ (See Fig. 2)	1	Assembly, Motor and Housing,	
11	* ♦ DD5448600SR	1	Set Screw, Reaction Arm	

- ♦ Item included in service assembly TW6000RSR, Gear Box Assembly with Reaction Arm.
- * Item included in service assembly RATWS, Standard Reaction Arm.
- ★ Item included in service assembly DD5356108SR, Swivel Hardware Kit.
- + Item included in service assembly DD5388900SR, Electric Motor Service Assembly.

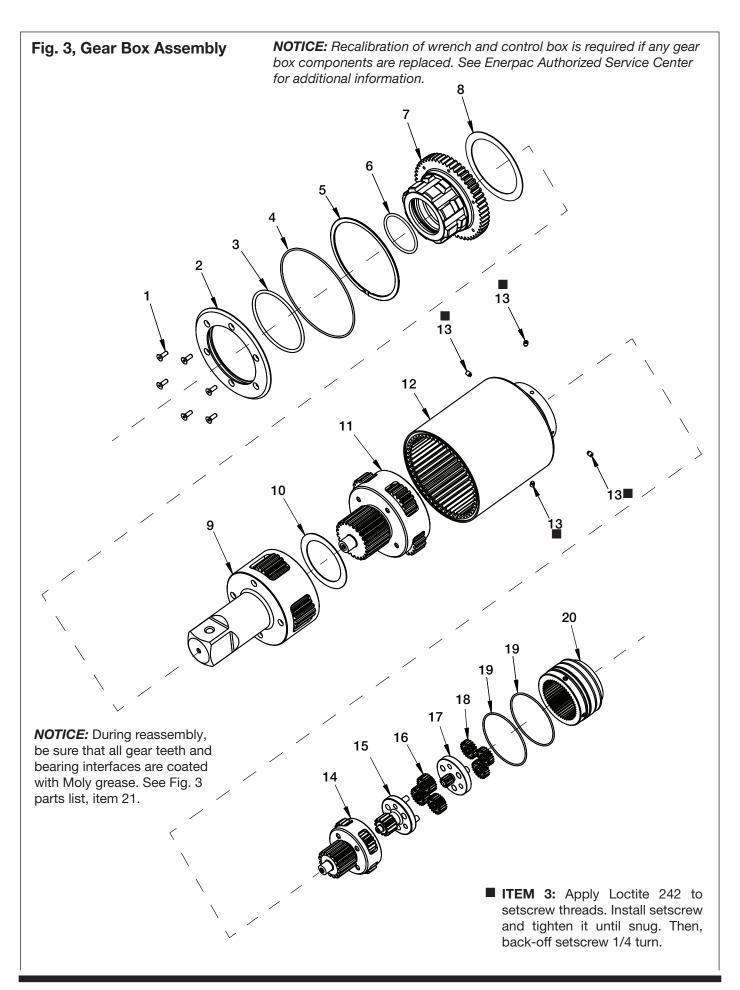
Fig. 2, Electric Motor and Keypad Display 19 1 22 11. 10 5<u>1</u>4 Route to "A" on item 8. (PC Board) Route to item 17. (motor) 20 . 26 13 Route to "B" on item 8. 16 23 (PC board) **©** Notes: 1 Tighten finger-tight only. 2 Torque to 40 - 49 in-lbs [54.1 - 66.2 Nm]. **3** Torque to 21 - 26 in-lbs [28.9 - 35.4 Nm]. 4 Apply Loctite® 242 to threads.

*** NOTICE:** Recalibration of wrench and control box is required if electric motor (item #17) is replaced. Firmware version of control box must match firmware version of wrench. See Enerpac Authorized Service Center for additional information.

	Repa	ir Parts Li	st, Fig. 2 L4089
Item	Part Number	Qty.	Description
1	❸ B1279503	1	O-Ring (service only)
2	❸ CBE413028-1E	2	Screw, BHCS, M4 x 8MM LG GR 10.9 Zinc
3	CCE1050108-6A	2	Lock Washer (Bulkhead)
4	9 DD3659028	14	Screw, SHC, M5 x 0.8 x 14 Stainless Steel
5	❸ 	9	Standoff
6	▲ ❷ DD3793960	1	Switch Wires
7	1 DD3969186	4	Light Pipe (display)
8	≉ 	1	Printed Circuit Board w/display (Firmware Version 1.2)
9	1 DD3971354	1	Lens (display)
10	DD3972375	1	Keypad (display)
11	1 DD3973026	1	Label (display)
12	1 DD3974689	1	Shield (display)
13	2 DD3977144	1	Trigger
14	② DD3979110	1	Spring, Trigger
15	❸ DD3980251	1	Square Key, 5mm x 20mm, Rounded Ends
16	❸ DD3982117	1	Hanger
17	DD3985259	1	Motor, Electric
18	2 DD4109028	1	Screw, Shoulder, .25 Dia x .75 L, 10-24
19	3 	5	Screw, Flat Head Cap, M2.50 x .45 x 5
20	❸ DD5119017	1	Cable Holder, 1/2"
21	DD5165101	1	Adapter Plate
22	DD5351900	1	Housing
23	DD5421960	1	Cable, Servo Power and Control
24	❸ DD5679028	3	Screw, M5 x 8 Philips Pan Hd
25	② DD5680028	1	Nut, M12 x 1.75
26	❸ F100299-27	3	Clamp, Cable

- 1 Item included in DD5963900 PCB Repair Kit ETW.
- 2 Item included in DD5964900 Trigger Repair Kit ETW.
- 1 Item included in DD5965900 Hardware Repair Kit ETW Handle Assembly.
- ▲ Item included in a repair kit but may also be ordered separately.
- * Firmware version of wrench printed circuit board must match firmware version of control box. Contact Enerpac Authorized Service Center for additional information.

NOTICE: Except as indicated, items included in repair kits are not sold separately.

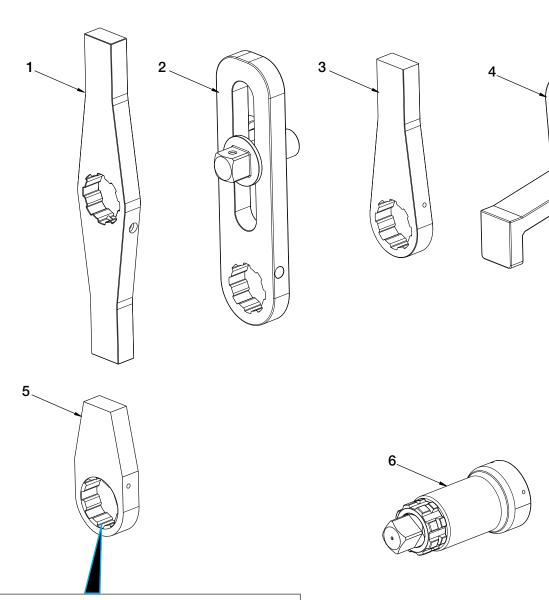


	g. 3 L4089			
Item Part Number Qty.		Qty.	Description	
1	♦ ★ ♦ (not sold separately)	6	Cap Screw, Socket Head Flat	
2	▲ ★ ◆ DD5473600SR	1	Housing Cap, TW6000	
3	♦ ★ ◆ (not sold separately)	1	O-Ring, Housing Cap (small)	
4	♦ ★ ◆ (not sold separately)	1	O-Ring, Housing Cap (large)	
5	♦ ★ ◆ (not sold separately)	1	Retaining Ring	
6	♦ ★ ◆ (not sold separately)	1	O-Ring, Housing Head	
7	▲ ★ ◆ DD5474600SR	1	Housing Head, TW6000	
8	♦ ★ ◆ (not sold separately)	1	Thrust Washer	
9	▲ ★ ◆ DD5476600SR	1	Assembly, Drive Stage, TW6000	
10	♦ ★ ◆ (not sold separately)	1	Thrust Washer, High Speed	
11	▲ ★ ◆ DD5483600SR	1	Gear Carrier, Fourth Stage, TW6000	
12	▲ ★ ◆ DD5475600SR	1	Gear Housing, TW6000	
13	♦ ★ ◆ (not sold separately)	4	Set Screw	
14	▲ ★ ◆ DD5482600SR	1	Gear Carrier, Third Stage, TW6000	
15	▲ ★ ◆ DD5480600SR	1	Gear Carrier, Second Stage, TW6000	
16	▲ ❖★◆ DD5481600SR	1	Planetary Gears, Second Stage, TW6000	
17	▲ ★ ◆ DD5478600SR	1	Gear Carrier, First Stage, TW6000	
18	▲ ❖★◆ DD5479600SR	1	Planetary Gears, First Stage, TW6000	
19	♦ ★ ◆ (not sold separately)	2	O-Ring, Housing	
20	▲ ★ ◆ DD5477600SR	1	Ring Gear, TW6000	
21	✿ DD5587600SR	A/R	Grease, Moly, 16 oz, 454 g	

- ♣ Included in MKTW6000K Maintenance Klt.
- ★ Included in service assembly TW6000SR, Replacement Gearbox Assembly.
- ◆ Included in service assembly TW6000RSR, Replacement Gearbox Assembly with Reaction Arm. (See Figure 1 for reaction arm and set screw)
- Item includes set of three planetary gears with bearings.
- ✿ During reassembly, be sure that all gear teeth and bearing interfaces are coated with Moly grease.
- ▲ Item included in a service assembly, but may also be ordered separately.

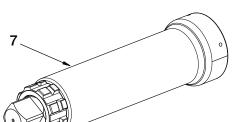
A/R = Order as required.

Fig. 4A, Accessories

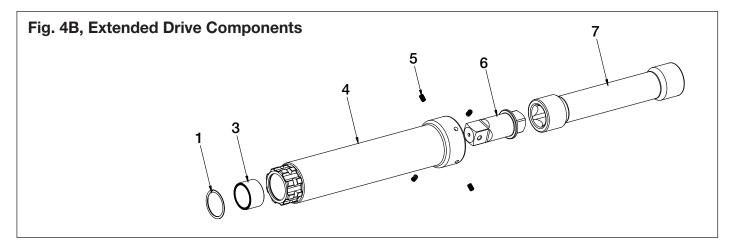


▲ WARNING Failure to observe and comply with the following instructions could result in failure of the blank reaction arm (item 5) during use. Death or personal injury could occur. Property damage may also occur.

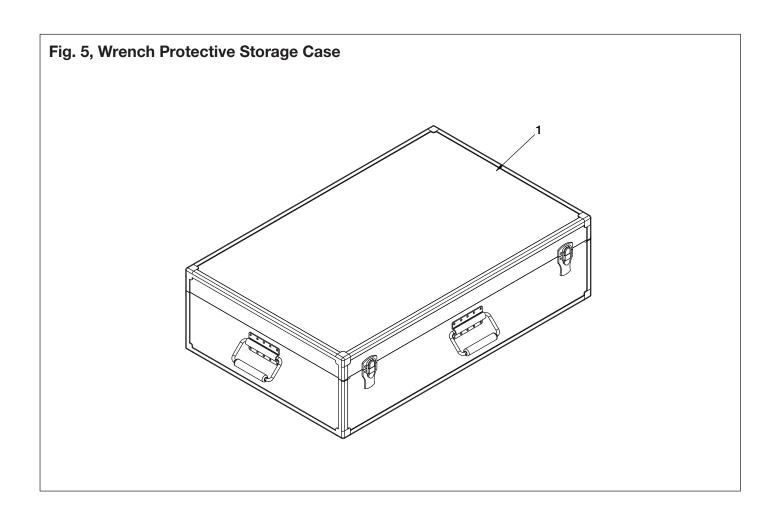
- The blank reaction arm is NOT heat treated at the factory prior to shipment. It must be heat treated before use. DO NOT use the blank reaction arm if it has not been heat treated.
- The blank reaction arm is manufactured from SAE 4140-AQ alloy steel. Final heat treatment to Rockwell hardness Rc 38-42 is required after fabrication is completed.



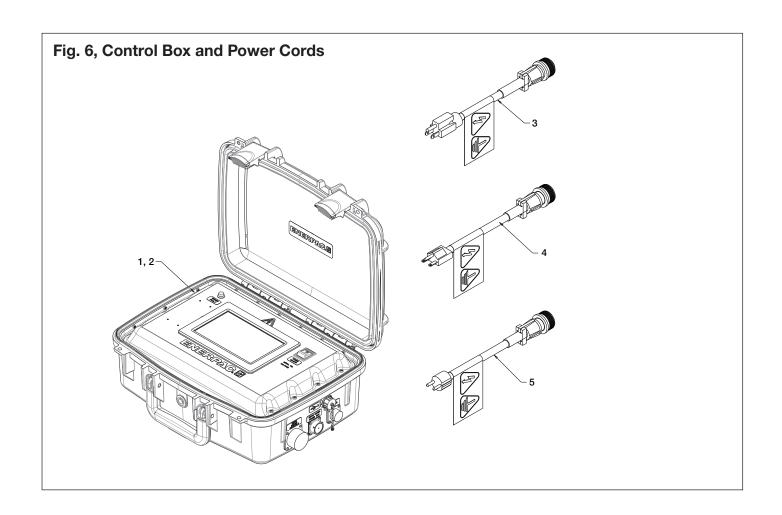
	Repair Parts List, Fig. 4A L4089					
Item	Part Number	Qty.	Description			
		1	Reaction Arm, Straight, Double			
1	DSATWL	1	Screw, 1/4 - 28 x 3" long			
		1	Nylon Hex Nut, 1/4 - 28			
		1	Reaction Arm, Sliding			
2	SLRATWL	1	Screw, 1/4 - 28 x 3" long			
		1	Nylon Hex Nut, 1/4 - 28			
		1	Reaction Arm, Straight			
3	SRATWL	1	Screw, 1/4 - 28 x 3" long			
		1	Nylon Hex Nut, 1/4 - 28			
		1	Reaction Arm, Extended			
4	ERATWL	1	Screw, 1/4 - 28 x 3" long			
		1	Nylon Hex Nut, 1/4 - 28			
		1	Reaction Arm, Blank			
5	BLTWL	1	Screw, 1/4 - 28 x 3" long			
		1	Nylon Hex Nut, 1/4 - 28			
6	ED6TWL	1	Extended Drive, 6" long			
0	EDOIAAF	1	Screw, 1/4" - 28 by 3/8"long			
7	ED12TWL	1	Extended Drive, 12" long			
'	ED121VVL	1	Screw, 1/4" - 28 by 3/8"long			
NOTICE: Mounting hardware not shown. See Figure 1 for standard reaction arm.						



	Repair Parts List, Fig. 4B										
Itama	Drive Model	/ Part Number	Otre	Description							
Item	ED6TWL	ED12TWL	Qty.	Description							
1	DD6634249SR	DD6634249SR	1	Snap Ring							
3	DD6637039SR	R DD6637039SR		Bushing							
4	DD6624001SR	DD6625001SR	1	Housing							
5	DD6638027SR	DD6638027SR	1	Set Screw (package of four)							
6	DD6631229SR	DD6631229SR	1	Square Drive							
7	DD6629104SR	DD6630104SR	1	Drive Extension							



Repair Parts List, Fig. 5					
Item Part Number Qty. Descrip		Description			
1	DD4728530	1	Protective Storage Case		

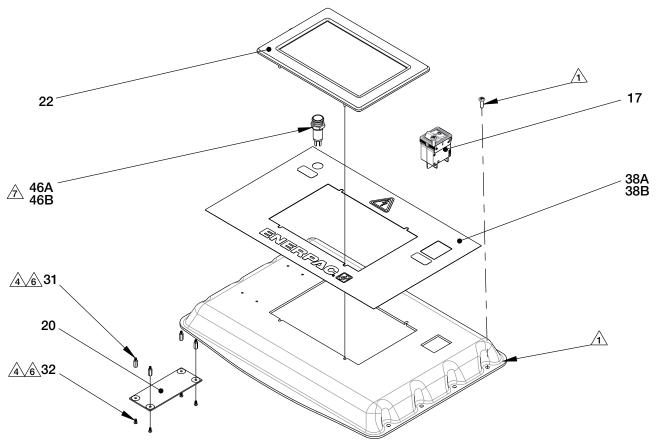


	Repair Parts List, Fig. 6 (115V Control Box)						
Item	Part Number	Qty.	Description				
1	DD5349900	1 Control Box, Electrical, 115 volt					
3	DD3718960	1	Power Cord, 115V, 60Hz (for use only with item 1)				

	Repair Parts List, Fig. 6 (230V Control Box)							
Item	Item Part Number Qty.		Description					
2	DD5350900	1	Control Box, Electrical, 230 volt					
4	DD3719960	1	Power Cord, 230V, 50Hz (for use only with item 2)					
5	DD3720960	1	Power Cord, 230V, 60Hz (for use only with item 2)					

NOTICE: Control box AND wrench must be recalibrated when a new control box is ordered. Firmware version of control box must match firmware version of wrench. See Enerpac Authorized Service Center for additional information.





- 1 Item included with control box case. See Figure 7B for additional information.
- 4 Tighten item 31 finger tight.
- 6 Apply Loctite® 242 to threads.
- Apply heat shrink tubing over electrical connections.

NOTICE:

Recalibration of wrench and control box is required:

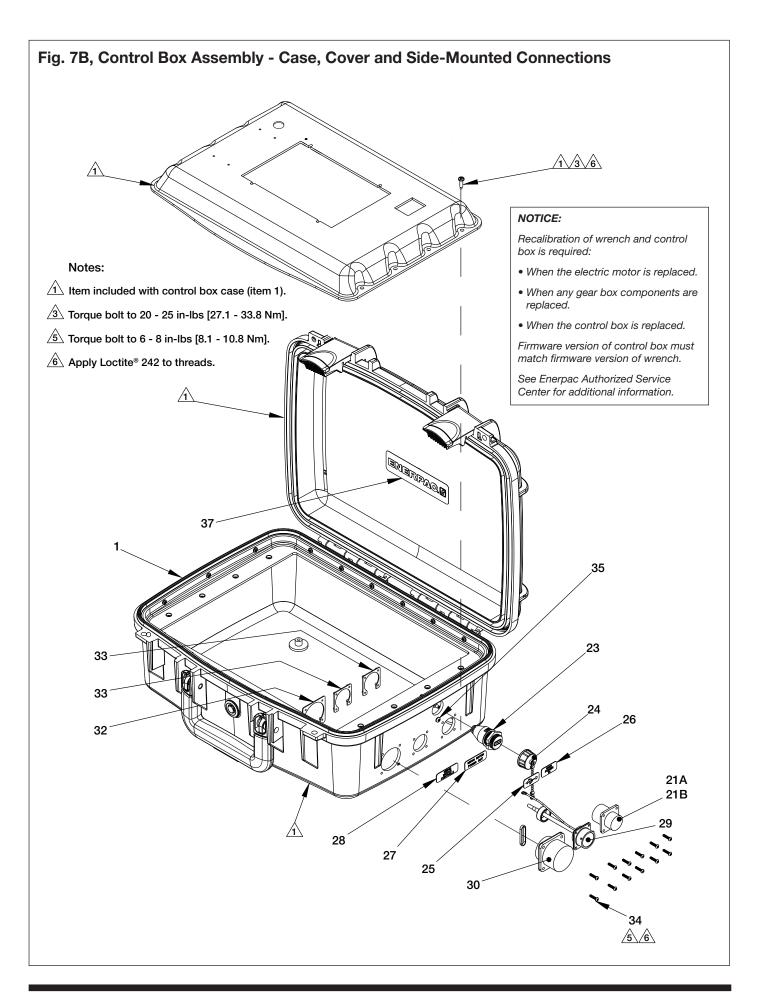
- When the electric motor is replaced.
- When any gear box components are replaced.
- When the control box is replaced.

Firmware version of control box must match firmware version of wrench.

See Enerpac Authorized Service Center for additional information.

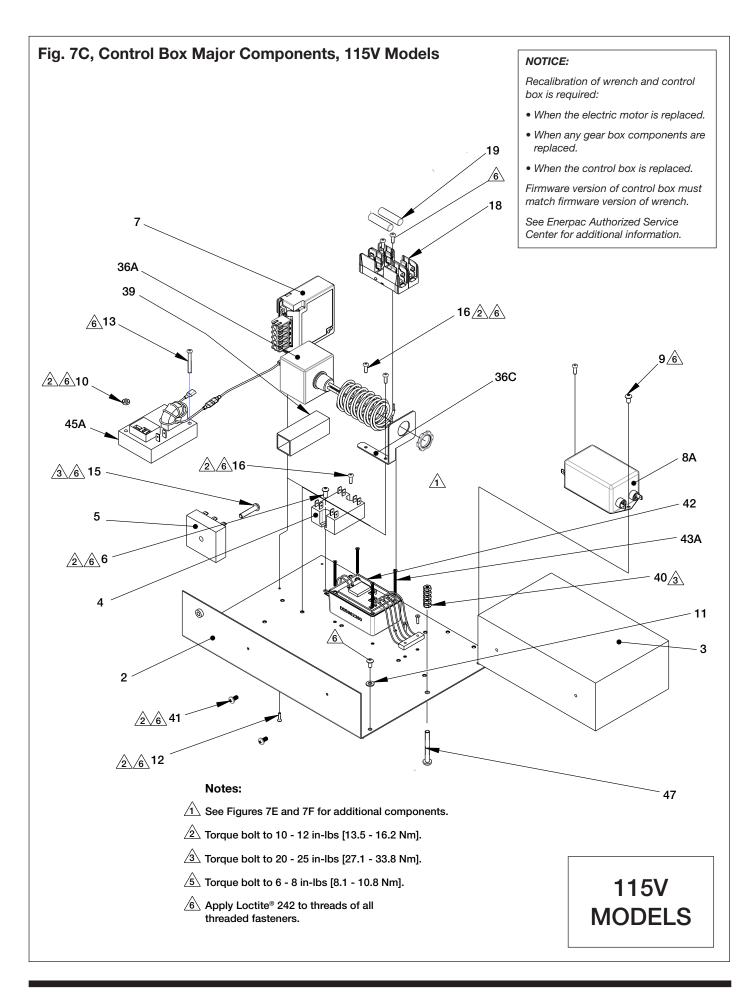
		Re	Fig. 7A	L4089	
Item		Part Number	Q	ty.	Description
Item		Part Number	115V Models	230V Models	Description
17		DD3717372	1	1	Switch, Main Power
20	6	DD3725827	1	1	Printed Circuit Board (Intermediate)
22	* 6	DD3731380	1	1	Touchscreen Panel, Computer (includes microSD memory card - see Fig. 7F, item #66)
31	6	DD3752111	4	4	Standoff
32	6	DD3753028	4	4	Screw, BHSC, M2.5 x .45 x 5
38A		DD5985026	1	-	Decal, Control Box Panel, 115V
38B		DD5398026	-	1	Decal, Control Box Panel, 230V
46A		DD6017380	1	-	LED, Dual Color
46B		DD5984380	-	1	LED, Dual Color

- **16** Item included in DD5967900 Intermediate PCB Repair Kit ETW.
- 1 Item included in DD5968900 Touchscreen Repair Kit ETW.
- ▲ Item included in a service assembly, but may also be ordered separately.
- * Firmware version of control box must match firmware version of wrench. Always check wrench firmware version whenever replacing the touchscreen panel or the microSD memory card. Contact Enerpac Authorized Service Center for additional information.



		Repair Parts	L4089	
Itom	Dort Number	Qty.		December
Item	Part Number	115V Models	230V Models	Description
1	DD5274530	1	1	Case, Control Box (includes lid and top panel)
21A	⑦ DD3726960	1	-	Connector and Cable Assy., 115V Power In
21B	⑪ DD3801960	-	1	Connector and Cable Assy., 230V Power In
23	® DD3733380	1	1	USB Socket and Cable Assembly
24	® DD3734380	1	1	Cover, USB Port (with ball chain)
25	® DD3738026	1	1	Decal, Data Output
26	① ⑦ DD3739026	1	1	Decal, Main Power In
27	⑥ DD3740026	1	1	Decal, Servo Motor Power Out
28	⑤ DD3741026	1	1	Decal, Servo Motor Controls
29	⑥ DD3746960	1	1	Connector and Cable Assy., Servo Motor Power Out
30	⑤ DD3747960	1	1	Connector and Cable Assy., Servo Motor Controls
32	⑤ DD6254021	1	1	Nut Plate, #4-40, Servo Motor Controls
33	®⊘® DD6255021	2	2	Nut Plate, #4-40, Servo Motor Power Out & Control Box Power In
34	⊕765 DD6252028	12	12	Screw, BHCS, #4-40 x 1/2
35	® DD3758028	1	1	Screw, Thread Forming #6-19
37	DD4971026	2	2	Decal, Control Box, Enerpac

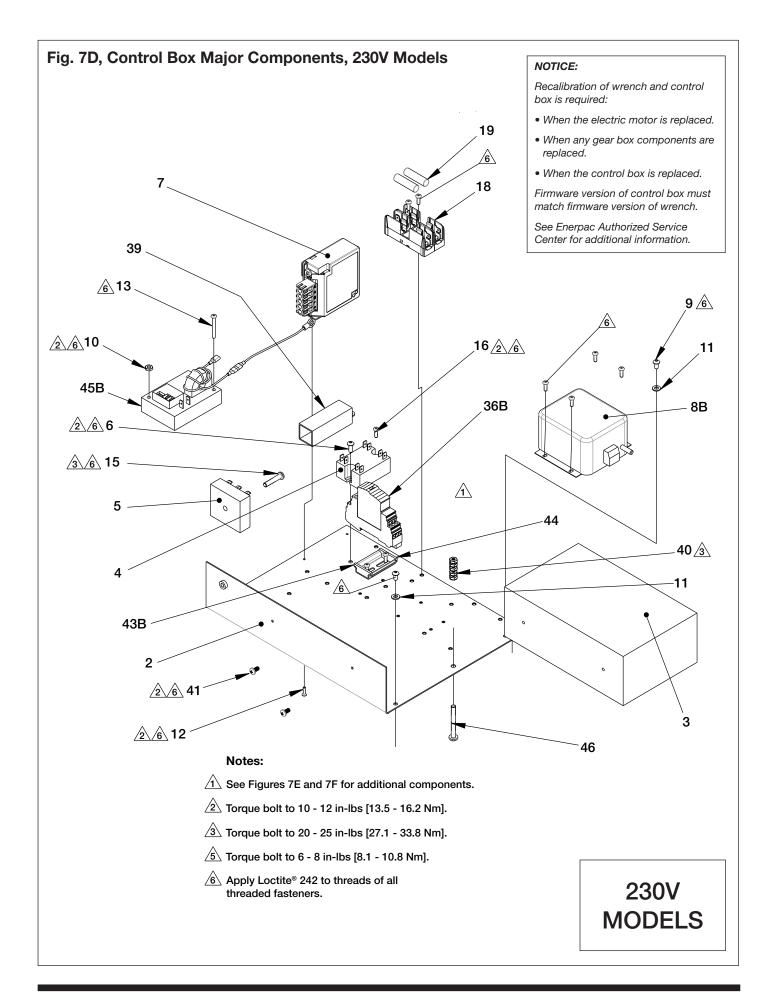
- ⑤ Item included in DD5977900 Data Cable Connector Repair Kit ETW.
- ® Item included in DD5978900 Power Cable Connector Repair Kit ETW.
- $\ensuremath{{@|}}$ Item included in DD5979900 Mains Power Connector Repair Kit 115V ETW.
- ® Item included in DD5980900 USB Cable Repair Kit ETW.
- ① Item included in DD6055900 Mains Power Connector Repair Kit 230V ETW.



	Repair Parts List, Fig. 7C						
Item	Part Number		Qty.	Description			
2		DD5275101	1	Subplate			
3	9	DD3724380	1	Servo Drive			
4	1	DD5285380	1	Relay, Solid State Dual Pole			
5	8	DD5286380	1	Timer, 24V			
6	1	BF1906728	1	Screw, #10-32 x .38			
7	•	DD3730380	1	Power Supply, 24 Volt DC			
8A	2	DD3781380	1	EMI Filter, 20 Amps (for 115V)			
9	2	BF1904728	2	Screw, #10-32 x .25			
10	0	B1018121	1	Nut, Hex #10-32			
11		B1085108X	1	Washer, Flat, #10, Zinc Plated			
12	0	CBA317028-1B	4	Screw, Hex, Socket, CSK Head M3 x 12			
13	0	CBA427028-1E	1	Capscrew, Button Hd M4.0 x 0.7 x 35.0			
15	8	CBA625028-1E	1	Capscrew, Button Hd M6 x 30mm			
16	9421	CCA417028-1E	6	Capscrew, Button Hd M4 x M7 x12			
18	4	DD3721378	1	Fuse Block, 2 Pole			
19	4 4	DD3722378	2	Fuse, 10 Amp			
36A	▲ 9	DD3768380	1	Surge Suppressor, 115V			
36C	9	DD3769380	1	Bracket, Mounting			
39		DD5407380	1	Wire Duct, 3.00 inch			
41	9	DD5682028	2	Screw, BHSC, 10-32 x .375			
40		DD5681028	5	Lock Nut, M6 with Tooth Washer			
42		DD6104900	1	Voltage Monitor Module (includes item 43A)			
43A		DD5983028	4	Screw, Flat Head Philips, M3 x 40L			
45A	0	DD6015960	1	Ground Fault Sensor, 115V			
47		DD6026028	1	Screw, Pan Head, Philips, M6 x 50L			

- ① Item included in DD5973900 SSR Repair Kit ETW.
- ② Item included in DD5974900 EMI Filter Repair Kit 115V ETW.
- ④ Item included in DD5976900 Fuse Block Repair Kit ETW.
- 1 Item included in DD5969900 Power Supply Repair Kit ETW.
- 3 Item included in DD5970900 Timer Repair Kit ETW.
- (9) Item included in DD5981900 Servo Drive Repair Kit ETW.
- Item included in DD5971900 Surge Suppressor Repair Kit 115V ETW.
- 10 Item included in DD6516900 Ground Fault Sensor Repair Kit 115V ETW.
- ▲ Item included in a repair kit or service assembly, but may also be ordered separately.

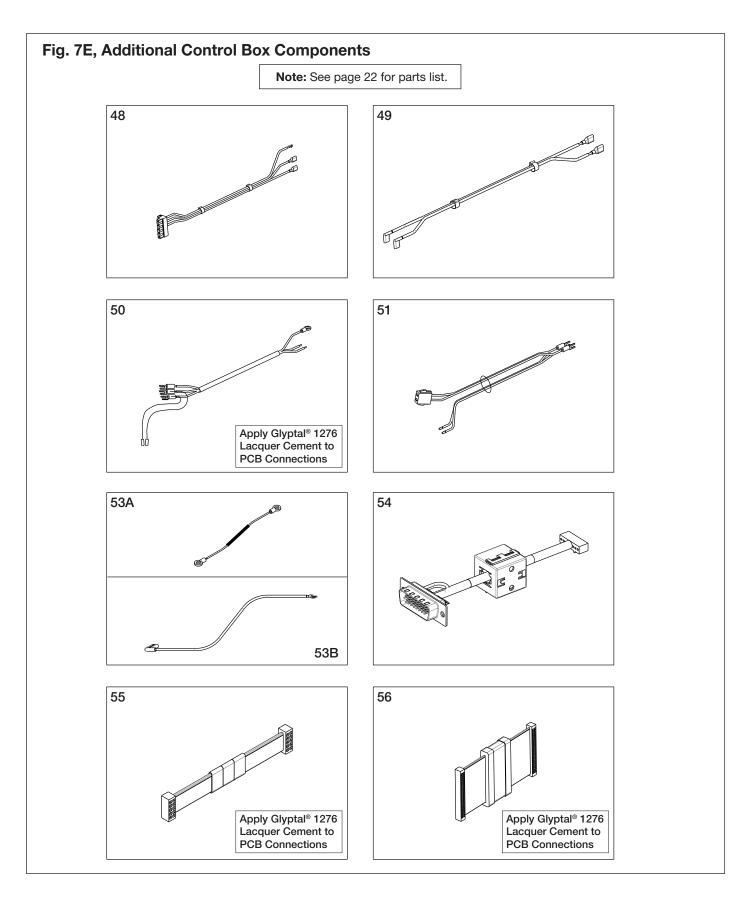
NOTICE: Except as indicated, items included in repair kits are not sold separately.



	Repair Parts List, Fig. 7D						
Item		Part Number	Qty.	Description			
2		DD5275101	1	Subplate			
3	9	DD3724380	1	Servo Drive			
4	1	DD5285380	1	Relay, Solid State Dual Pole			
5	8	DD5286380	1	Timer, 24V			
6	1	BF1906728	1	Screw, #10-32 x .38			
7	0	DD3730380	1	Power Supply, 24 Volt DC			
8B	3	DD3723380	1	EMI Filter, 12 Amps (for 230V)			
9		BF1904728	2	Screw, 10-32 x .25			
10	0	B1018121	1	Nut, Hex #10-32			
11		B1085108X	2	Washer, Flat, #10, Zinc Plated			
12	0	CBA317028-1B	4	Screw, Hex, Socket, CSK Head M3 x 12			
13	•	CBA427028-1E	1	Capscrew, Button Hd M4.0 x 0.7 x 35.0			
15	8	CBA625028-1E	1	Capscrew, Button Hd M6 x 30mm			
16	0 431	CCA417028-1E	9	Capscrew, Button Hd M4 x M7 x12			
18	4	DD3721378	1	Fuse Block, 2 Pole			
19	4 4	DD3722378	2	Fuse, 10 Amp			
36B	▲ ①	DD3718372	1	Surge Suppressor, 230V			
39		DD5407380	1	Wire Duct, 3.00 inch			
40		DD5681028	5	Lock Nut, M6 with Tooth Washer			
41	9	DD5682028	2	Screw, BHSC, 10-32 x .375			
43B	0	DD6007111	1	DIN Rail, 35 x 7.5 x 50L			
44	0	DD6008111	1	End Cap, DIN Rail			
45B	0	DD6014960	1	Ground Fault Sensor, 230V			
46		DD6026028	1	Screw, Pan Head, Philips, M6 x 50L			

- ① Item included in DD5973900 SSR Repair Kit ETW.
- ③ Item included in DD5975900 EMI Filter Repair Kit 230V ETW.
- ④ Item included in DD5976900 Fuse Block Repair Kit ETW.
- Item included in DD5969900 Power Supply Repair Kit ETW.
- 10 Item included in DD5970900 Timer Repair Kit ETW.
- (9) Item included in DD5981900 Servo Drive Repair Kit ETW.
- $\ensuremath{\mathfrak{D}}$ Item included in DD5972900 Ground Fault Sensor Repair Kit ETW.
- $\ensuremath{\Phi}$ Item included in DD6054900 Surge Suppressor Repair Kit 230V ETW.
- ▲ Item included in a repair kit or service assembly, but may also be ordered separately.

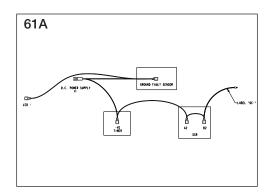
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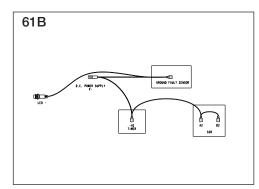


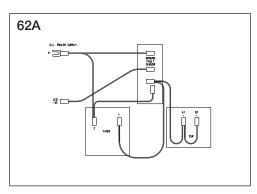
NOTICE: Figures 7C and 7F are provided for part identification purposes only. Items are drawn not to scale and may be larger or smaller than actual size.

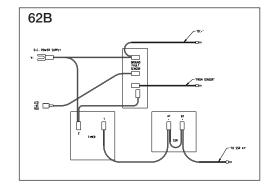


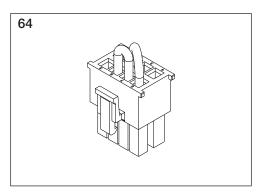
Note: See page 22 for parts list.

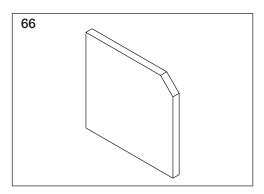


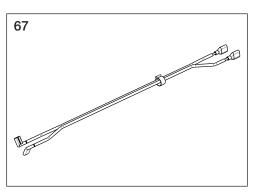


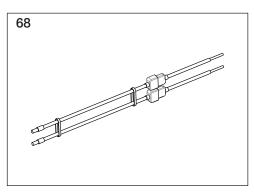














Repair Parts List, Fig. 7E and 7F L4089							
Itam	Part Number	Qty.		Description			
Item	Part Number	115V Models	230V Models	Description			
48	DD3727960	1	1	Power Cable 2			
49	DD3728960	1	-	Power Cable 3			
50	DD3729960	1	1	Power Cable 4			
51	DD3735960	1	1	Power Cable 5			
52	米	2	2	Flag Connector, Female 1/4 Inch			
53A	DD3806960	-	1	Ground Wire, J1			
53B	DD3744960	1	-	Ground Wire, J2			
54	DD3748960	1	1	Harness, Servo Drive To Adapter PCB			
55	DD3749960	1	1	Harness, Ribbon Cable HMI COM 2 to J5			
56	DD3776960	1	1	Flat Ribbon Cable, 40 Pin HMI			
57	米	11	12	Wire Tie, 6" Long			
61A	DD6010960	1	-	Wire Harness, DC Control Wires, Set 1			
61B	DD5435960	-	1	wire namess, DC Control Wires, Set 1			
62A	DD6011960	1	-	Wire Harness, DC Control Wires, Set 2			
62B	DD5436960	-	1	wire namess, DC Control Wires, Set 2			
63	米	2	2	Tie Wrap, Black, 8 Inch			
64	DD3803380	1	1	Safety Plug			
65	米	4	4	Wire Tie Mount			
66	* ® © DD5675380	1	1	Memory Card, microSD (includes firmware)			
67	DD5678960	1	1	Wire Harness			
69	*	1	2	Pan Hd Philips Mach Screw, 4-40 x 1/4" ZP			
70	DD6013960	1	-	Wire Assembly, Low Voltage Lamp, 115V			

- **6** Item included in DD5969900 Touchscreen Repair Kit ETW.
- 9 Item included in DD5981900 Servo Drive Repair Kit ETW.
- ® ETW firmware program included on micro SD memory card.
- * Item is not shown and is not available from Enerpac as a repair part (obtain locally).
- Firmware version of control box must match firmware version of wrench. Always check wrench firmware version whenever replacing the touchscreen panel or the microSD memory card. Contact Enerpac Authorized Service Center for additional information.

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