

Repair Parts Sheet

Electric Torque Wrench Model ETW1000

Document	Document	Document	Product Date Code
Number	Revision	Revision Date	Beginning With
L4086	D	04/2017	Α

NOTICE:

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

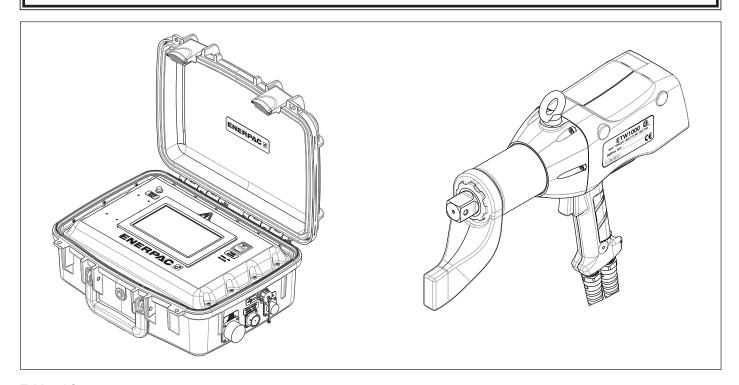
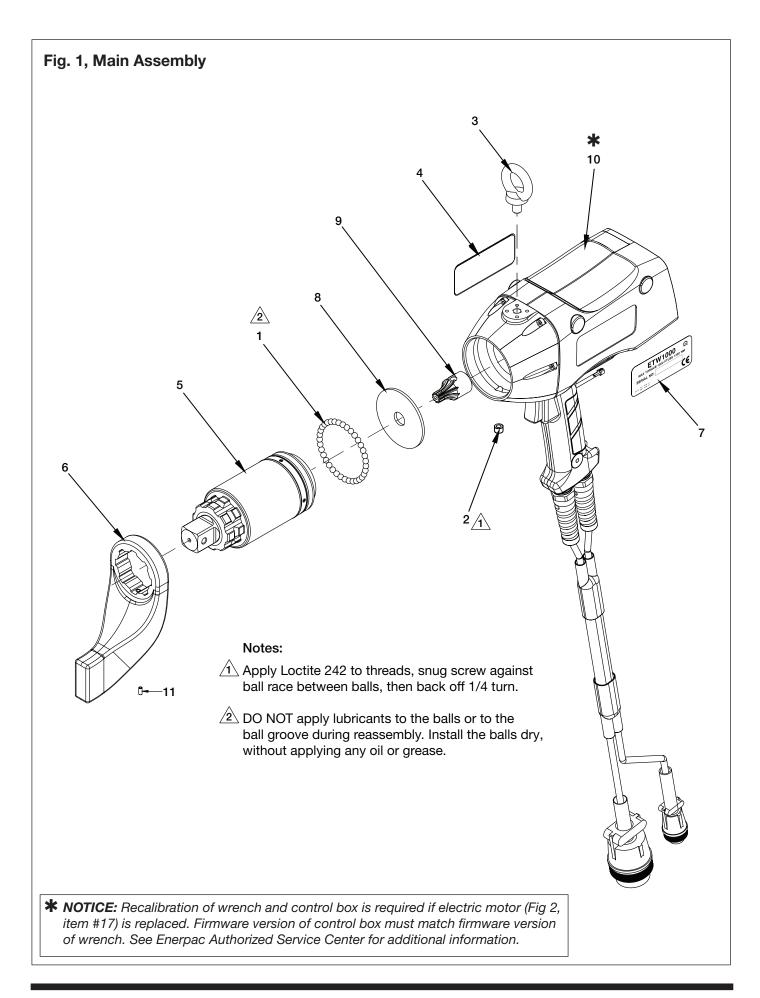


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▲ WARNING Before beginning any maintenance, repair, adjustment or inspection procedures, disconnect electrical control box cord from AC power supply. Disconnect wrench electrical cables from control box. Failure to observe these precautions could result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



	L4086			
Item	Part Number	Qty.	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	*◆DD5340900SR	1	Reaction Arm (standard)	
7	DD5352026	1	Decal, ETW1000, 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	

- \blacklozenge Item included in service assembly TW1000RSR, Gear Box Assembly with Reaction Arm.
- * Item included in service assembly RATWS, Standard Reaction Arm.
- \bigstar 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.

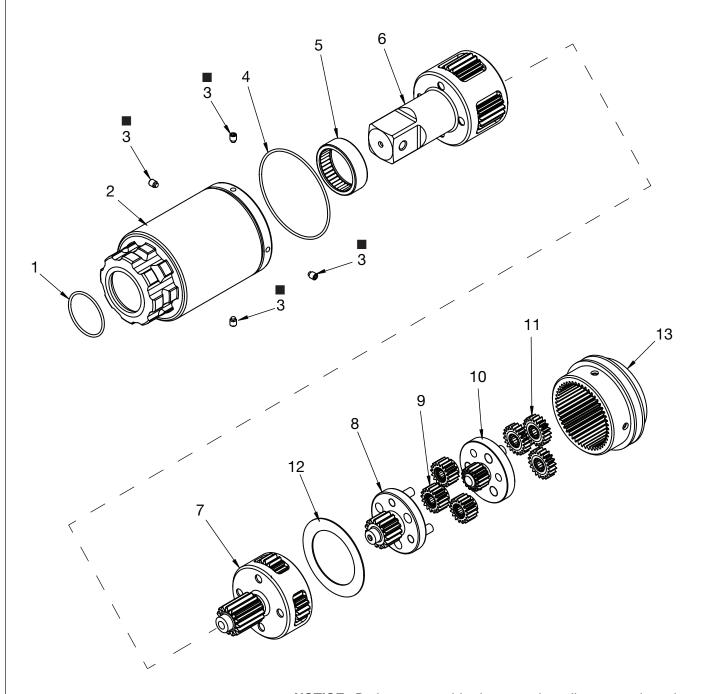
	Repair Parts List, Fig. 2					
Item	Part Number	Qty.	Description			
1	3 B1279503	1	O-Ring (service only)			
2	③ CBE413028-1E	2	Screw, BHCS, M4 x 8MM LG GR 10.9 Zinc			
3	CCE1050108-6A	2	Lock Washer (Bulkhead)			
4	3 DD3659028	14	Screw, SHC, M5 x 0.8 x 14 Stainless Steel			
5	3 	9	Standoff			
6	▲ ② DD3793960	1	Switch Wires			
7	1 DD3969186	4	Light Pipe (display)			
8	≉ 	1	Printed Circuit Board w/display (includes firmware)			
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	3 DD5679028	3	Screw, M5 x 8 Philips Pan Hd			
25	② DD5680028	1	Nut, M12 x 1.75			
26	9 F100299-27	3	Clamp, Cable			

- 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 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.

Fig. 3, Gear Box Assembly

NOTICE: Recalibration of wrench and control box is required if any gear box components are replaced. See Enerpac Authorized Service Center for additional information.



NOTICE: During reassembly, be sure that all gear teeth and bearing interfaces are coated with Moly grease. See Fig. 3 parts list, item 14.

■ ITEM 3: Apply Loctite 242 to setscrew threads. Install setscrew and tighten it until snug. Then, back-off setscrew 1/4 turn.

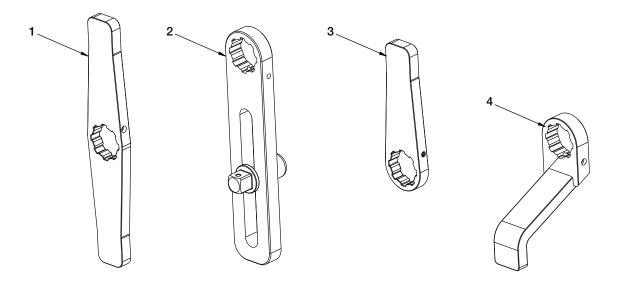
	Repair Parts List, Fig. 3						
Item		Part Number	Qty.	Description			
1	♦ ★◆	(not sold separately)	1	O-Ring, Small			
2	▲★◆	DD5440600SR	1	Gear Housing, TW1000			
3	♦ ★◆	(not sold separately)	4	Set Screw			
4	♦ ★◆	(not sold separately)	1	O-Ring, Large			
5	▲★◆	DD5458600SR	1	Needle Roller Bearing, Drive Stage, TW1000			
6	▲★◆	DD5441600SR	1	Assembly, Drive Stage, TW1000			
7	7 ▲★◆ DD5447600SR		1	Gear Carrier, Third Stage, TW1000			
8	▲ *◆	DD5445600SR	1	Gear Carrier, Second Stage, TW1000			
9	▲❖★◆	DD5446600SR	1	Planetary Gears, Second Stage, TW1000			
10	▲ *◆	DD5443600SR	1	Gear Carrier, First Stage, TW1000			
11	▲❖★◆	DD5444600SR	1	Planetary Gears, First Stage, TW1000			
12	♦ ★◆	(not sold separately)	1	Thrust Washer			
13	▲ ★◆	DD5442600SR	1	Ring Gear, TW1000			
14	û	DD5587600SR	A/R	Grease, Moly, 16 oz, 454 g			

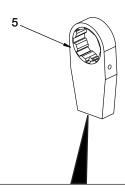
- ♣ Item included in MKTW1000K Maintenance Kit.
- ★ Item included in service assembly TW1000SR, Replacement Gear Box Assembly.
- ◆ Item included in service assembly TW1000RSR, Replacement Gear Box Assembly with Reaction Arm.

 (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 Molybdenum Disulfide grease.
- ▲ Item included in a service assembly, but may also be ordered separately.

A/R = Order as required.

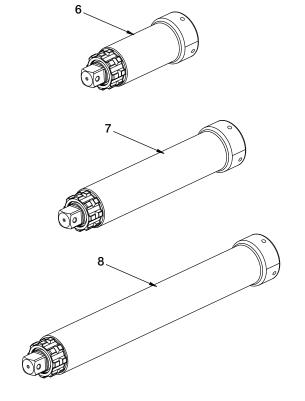
Fig. 4A, Accessories



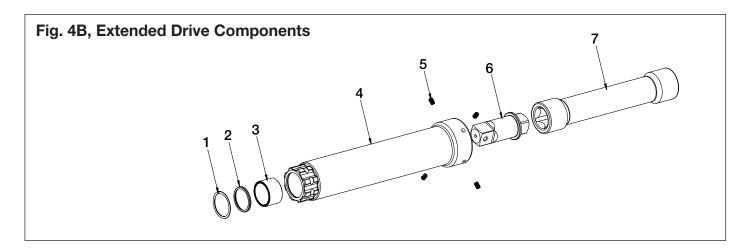


▲ WARNING Failure to observe and comply with the following instructions could result in failure of the blank reaction arm (item 5) during use. Death or personal injury could occur. Property damage may also occur.

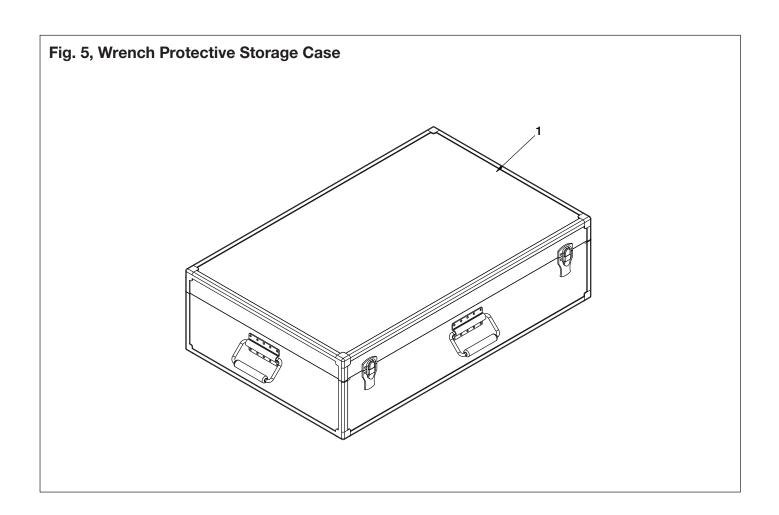
- The blank reaction arm is NOT heat treated at the factory prior to shipment. It must be heat treated before use. DO NOT use the blank reaction arm if it has not been heat treated.
- The blank reaction arm is manufactured from SAE 4140-AQ alloy steel. Final heat treatment to Rockwell hardness Rc 38-42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



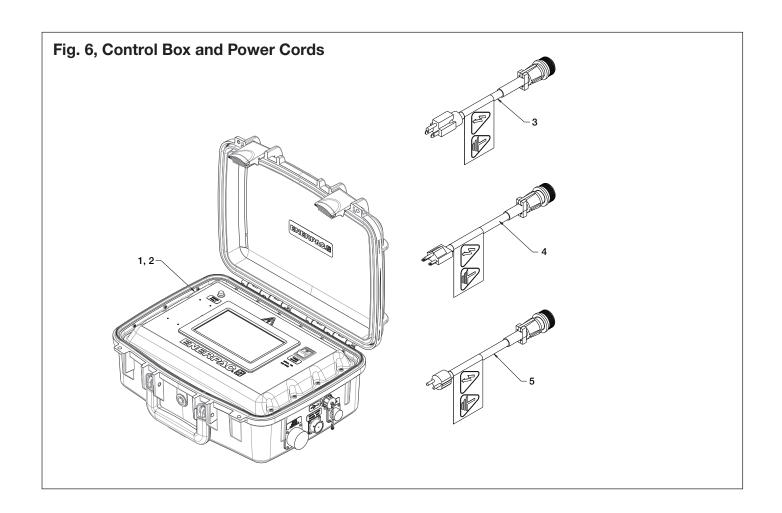
Repair Parts List, Fig. 4A L4086					
Item	Part Number	Qty.	Description		
		1	Reaction Arm, Straight, Double		
1	DSATWS	1	Screw, 1/4 - 28 x 2" long		
		1	Nylon Hex Nut, 1/4 - 28		
		1	Reaction Arm, Sliding		
2	SLRATWS	1	Screw, 1/4 - 28 x 2 - 1/4" long		
		1	Nylon Hex Nut, 1/4 - 28		
		1	Reaction Arm, Straight		
3	SRATWS	1	Screw, 1/4 - 28 x 2" long		
		1	Nylon Hex Nut, 1/4 - 28		
		1	Reaction Arm, Extended		
4	ERATWS	1	Screw, 1/4 - 28 x 2" long		
		1	Nylon Hex Nut, 1/4 - 28		
		1	Reaction Arm, Blank		
5	BLTWS	1	Screw, 1/4 - 28 x 2" long		
		1	Nylon Hex Nut, 1/4 - 28		
6	EDCTMC	1	Extended Drive, 6" long		
0	ED6TWS	1	Screw, 1/4 - 28 x 3/8" long		
7	ED40TMC	1	Extended Drive, 12" long		
7	ED12TWS	1	Screw, 1/4 - 28 x 3/8" long		
8	ED10TMC	1	Extended Drive, 18" long		
0	ED18TWS	1	Screw, 1/4 - 28 x 3/8" long		
NOTICE: Mounting hardware not shown. See Figure 1 for standard reaction arm.					



Repair Parts List, Fig. 4B L4086							
Itama	Drive Model / Part Number				Description		
Item	ED6TWS	ED12TWS ED18TWS		Qty.	Description		
1	DD6632249SR	DD6632249SR	DD6632249SR	1	Snap Ring		
2	DD6633503SR	DD6633503SR	DD6633503SR	1	O-Ring		
3	DD6636039SR	DD6636039SR	DD6636039SR	1	Bushing		
4	DD6621001SR	DD6622001SR	DD6623001SR	1	Housing		
5	DD6638027SR	DD6638027SR	DD6638027SR	1	Set Screw (package of four)		
6	DD6560229SR	DD6560229SR	DD6560229SR	1	Square Drive		
7	DD6626104SR	DD6627104SR	DD6628104SR	1	Drive Extension		



	L4086			
Item Part Number Qty. Description				
1	1 DD4727530 1 Protective Storage Case			

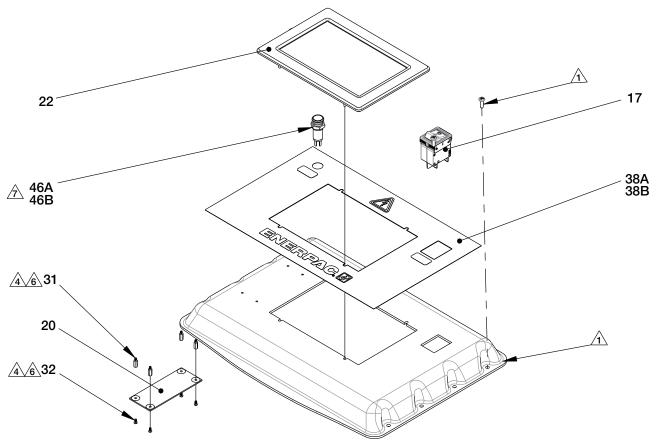


	Repair Parts List, Fig. 6 (115V Control Box)				
Item Part Number Qty. Description			Description		
1 DD5349900 1 Control Box, Electrical, 115 volt					
3	DD3718960	1 Power Cord, 115V, 60Hz (for use only with item 1)			

	Repair Parts List, Fig. 6 (230V Control Box)					
Item Part Number Qty. Description						
2	DD5350900	1 Control Box, Electrical, 230 volt				
4	DD3719960	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:

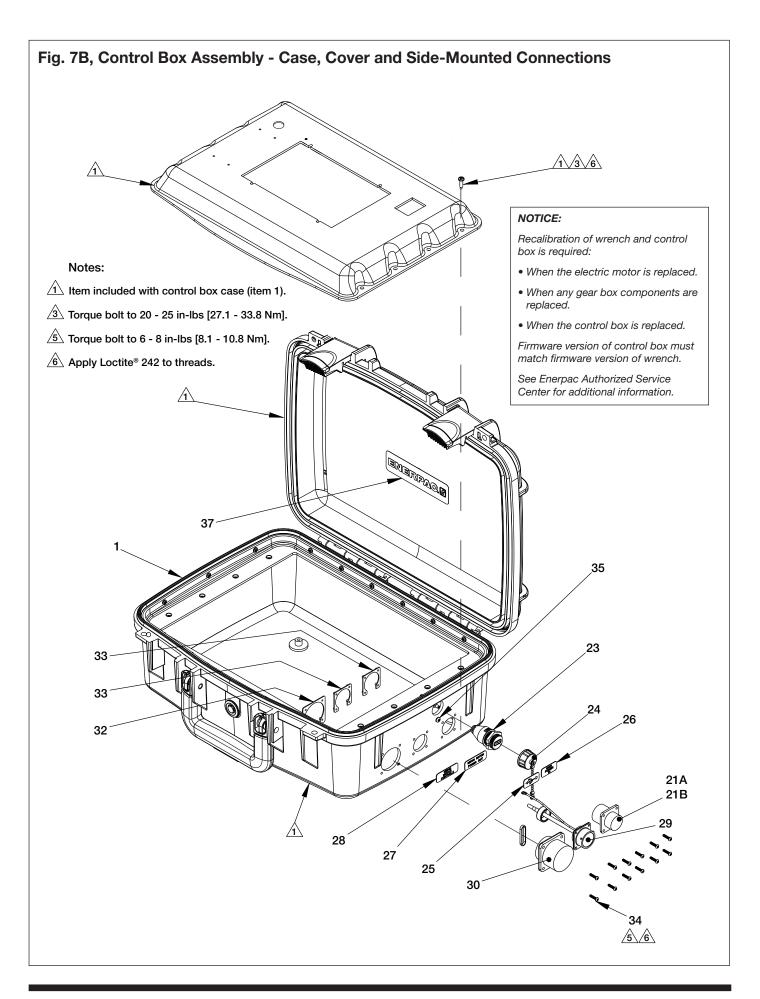
- When the electric motor is replaced.
- When any gear box components are replaced.
- When the control box is replaced.

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

See Enerpac Authorized Service Center for additional information.

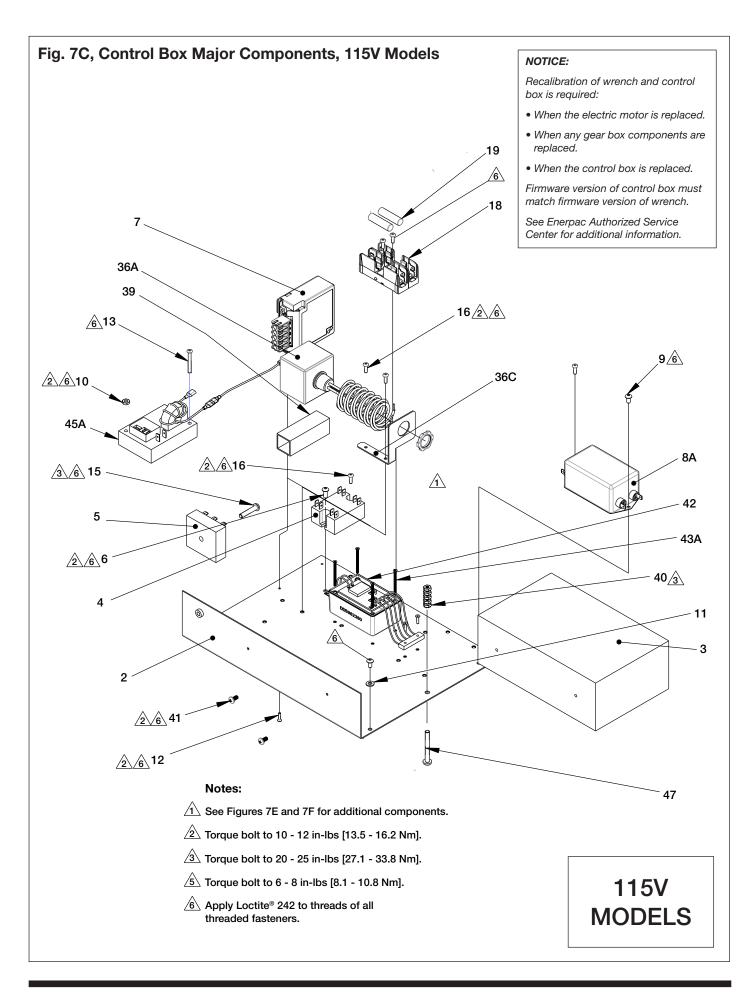
	Repair Parts List, Fig. 7A L4086							
Item	Part Number	Q	ty.	Description				
Item	Part Number	115V Models	230V Models	Description				
17	DD3717372	1	1	Switch, Main Power				
20	6 DD3725827	1	1	Printed Circuit Board (Intermediate)				
22	≉ ⊚ DD3731380	1	1	Touchscreen Panel, Computer (includes microSD memory card - see Fig. 7F, item #66)				
31	⑤ DD3752111	4	4	Standoff				
32	9 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				

- 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 List, Fig. 7B L4086							
Itama	Doub Number	Q	ty.	Description				
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	⊕ 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	⊕⑦⑥ 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				

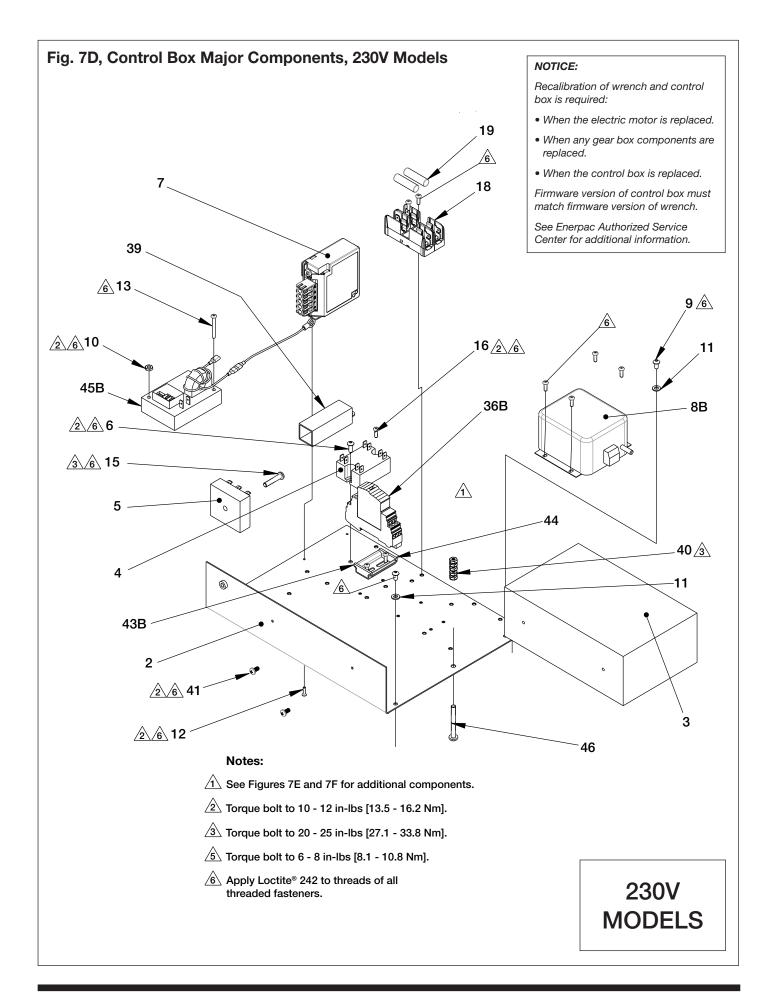
- ⑤ Item included in DD5977900 Data Cable Connector Repair Kit ETW.
- ® Item included in DD5978900 Power Cable Connector Repair Kit ETW.
- $\ensuremath{{@|}}$ Item included in DD5979900 Mains Power Connector Repair Kit 115V ETW.
- ® Item included in DD5980900 USB Cable Repair Kit ETW.
- ① Item included 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	0	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	•	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	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.

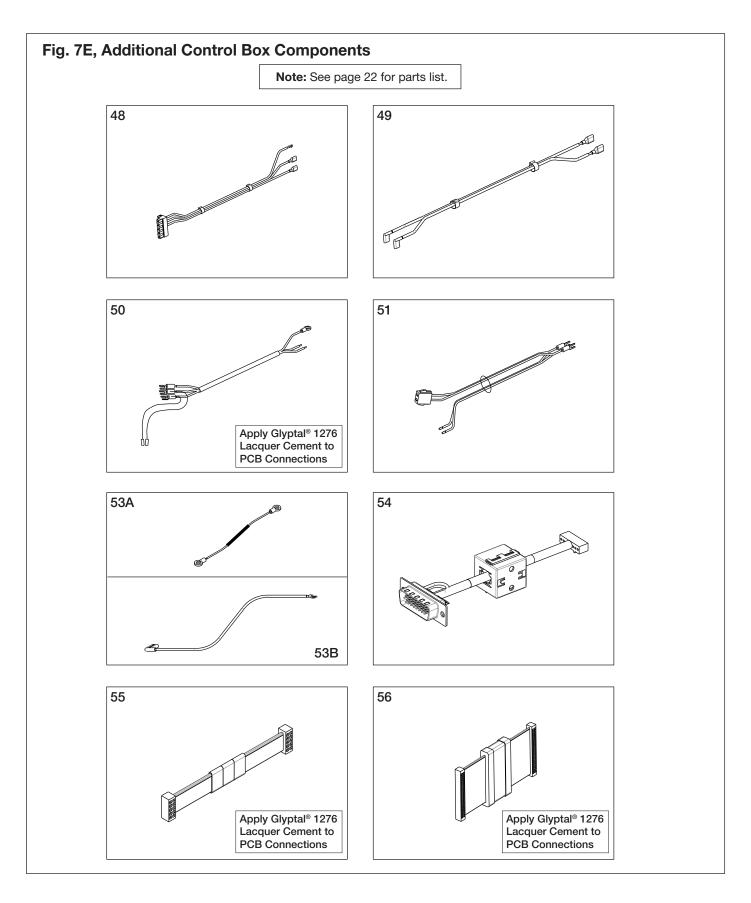
NOTICE: Except as indicated, items included in repair kits are not sold separately.



	Repair Parts List, Fig. 7D L4086						
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	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	0 431	CCA417028-1E	9	Capscrew, Button Hd M4 x M7 x12			
18	4	DD3721378	1	Fuse Block, 2 Pole			
19	A 4	DD3722378	2	Fuse, 10 Amp			
36B	▲ Φ	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.
- 10 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.

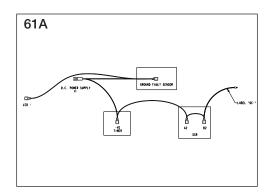
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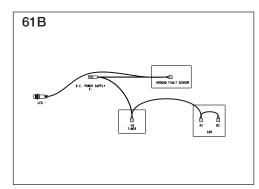


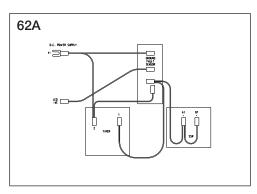
NOTICE: Figures 7C and 7F are provided for part identification purposes only. Items are drawn not to scale and may be larger or smaller than actual size.

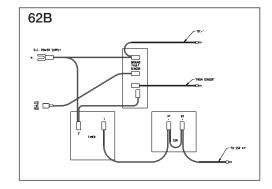


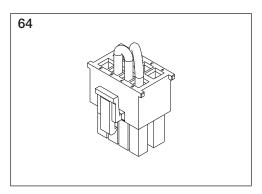
Note: See page 22 for parts list.

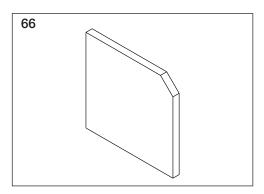


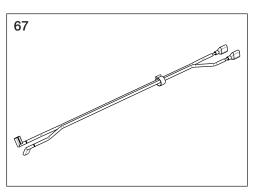


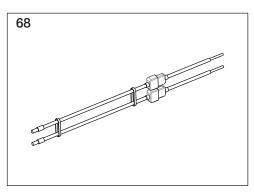














Repair Parts List, Fig. 7E and 7F							
Itam	Dord Muse	lh au	Qty.	D. andretian			
Item	Part Num	115V Models	230V Models	- Description			
48	DD3727	7960 1	1	Power Cable 2			
49	DD3728	960 1	-	Power Cable 3			
50	DD3729	960 1	1	Power Cable 4			
51	DD3735	960 1	1	Power Cable 5			
52	*	2	2	Flag Connector, Female 1/4 Inch			
53A	DD3806	960 -	1	Ground Wire, J1			
53B	DD3744	960 1	-	Ground Wire, J2			
54	DD3748	960 1	1	Harness, Servo Drive To Adapter PCB			
55	DD3749	960 1	1	Harness, Ribbon Cable HMI COM 2 to J5			
56	DD3776	960 1	1	Flat Ribbon Cable, 40 Pin HMI			
57	米	11	12	Wire Tie, 6" Long			
61A	DD6010	960 1	-	Wine Herness DC Central Wines Cet 1			
61B	DD5435	960 -	1	Wire Harness, DC Control Wires, Set 1			
62A	DD6011	960 1	-	Wire Harness DC Central Wires Set 2			
62B	DD5436	960 -	1	Wire Harness, DC Control Wires, Set 2			
63	*	2	2	Tie Wrap, Black, 8 Inch			
64	9 DD3803	3380 1	1	Safety Plug			
65	*	4	4	Wire Tie Mount			
66	* ® ® DD5675	380 1	1	Memory Card, microSD (includes firmware)			
67	DD5678	960 1	1	Wire Harness			
69	米	1	2	Pan Hd Philips Mach Screw, 4-40 x 1/4" ZP			
70	DD6013	960 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.

NOTES:

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For the location of your nearest authorized Enerpac Service Center, visit us at www.enerpac.com

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