

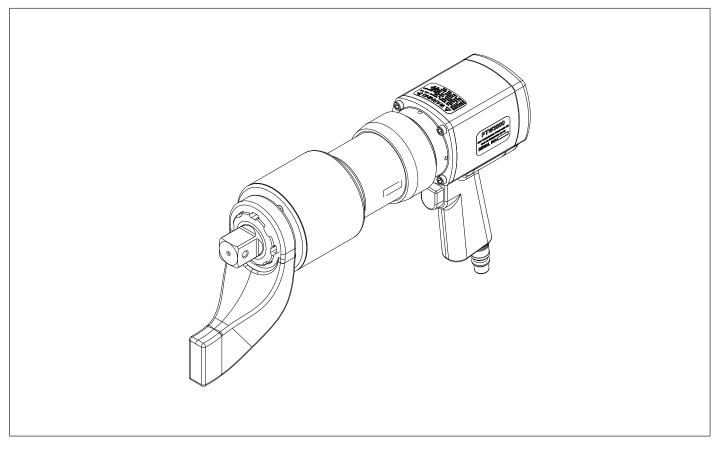
# **Repair Parts Sheet**

# Pneumatic Torque Wrench Model PTW3000

Document	Document	Document	Product Date Code
Number	Revision	Revision Date	Beginning With
L4083	F	04/2017	Α

## **NOTICE:**

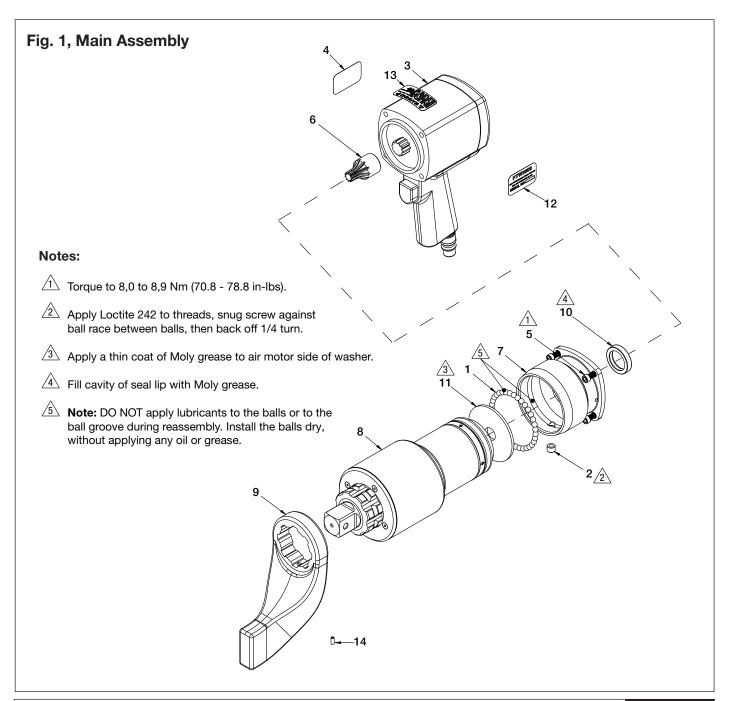
Enerpac recommends that all parts included in a service assembly or repair kit be installed to ensure optimum performance of the repaired product.



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**APPRING** Disconnect tool from air supply before beginning any maintenance or repairs. Appropriate shop safety procedures are to be followed during disassembly and reassembly to minimize any possibility of injury.



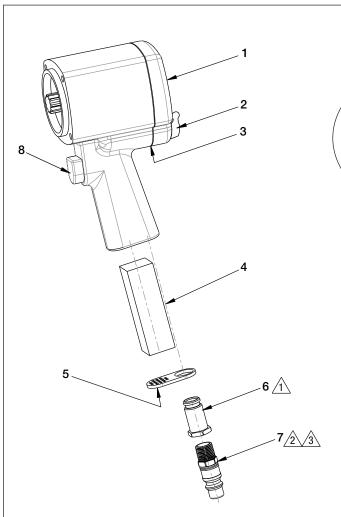
Repair Parts List, Fig. 1						Fig. 1		L4083
Item	Part Number	Qty.	Description		Item	Part Number	Qty.	Description
1	★ B1007016	35	Ball, 1/4" Diameter		9	* ◆ DD5340900SR	1	Reaction Arm (standard)
2	★ BF3804027A	1	Set Screw, Cup Point		10	★ DD5344476	1	Seal, Radial Lip
3	+ (See Fig. 2)	1	Assembly, Air Motor		11	★ DD5356108	1	Washer, Delrin
4	+ DD4500026	1	Decal, Brand PTW		12	+ DD5385026	1	Decal, PTW3000
5	★ DD4608028	4	SHCS, M6 x 1 - 14, SS		13	+ DD5496026	1	Decal, Warning
6	DD5168229SR	1	Pinion, Input, PTW		14	* ◆ DD5448600SR	1	Set Screw, Reaction Arm
7	DD5169101SR	1	Plate, Adaptor PTW		-	✿ DD5587600SR	A/R	Grease, Moly, 16 oz, 454 g
8	♦ (See Fig. 3)	1	Assembly, Gear Box					(A/R = Order as required)

- ◆ Included in service assembly TW3000RSR, Gearbox Assembly with Reaction Arm.
- \* Included in service assembly RATWS, Standard Reaction Arm.
- ★ Included in service assembly DD5356108SR, Swivel Hardware Kit.

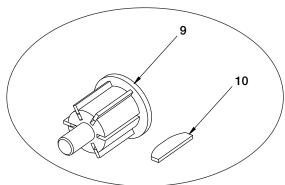
   + Included in service assembly DD3237900SR, Air Motor Assembly Kit.

♣ Apply Moly grease as described in Fig. 1. See notes <a>3</a> and <a>4</a>

Note: Items included in service assemblies are not sold separately.



# Fig. 2, Air Motor Assembly



## Notes:

Install nut (item 6) so that it is snug against exhaust deflector plate (item 5). Torque to 4,1 to 6,7 Nm (3-5 ft-lbs). Note: Plate may crack if nut is tightened excessively.



Apply Loctite 545 to threads of coupling (item 7).



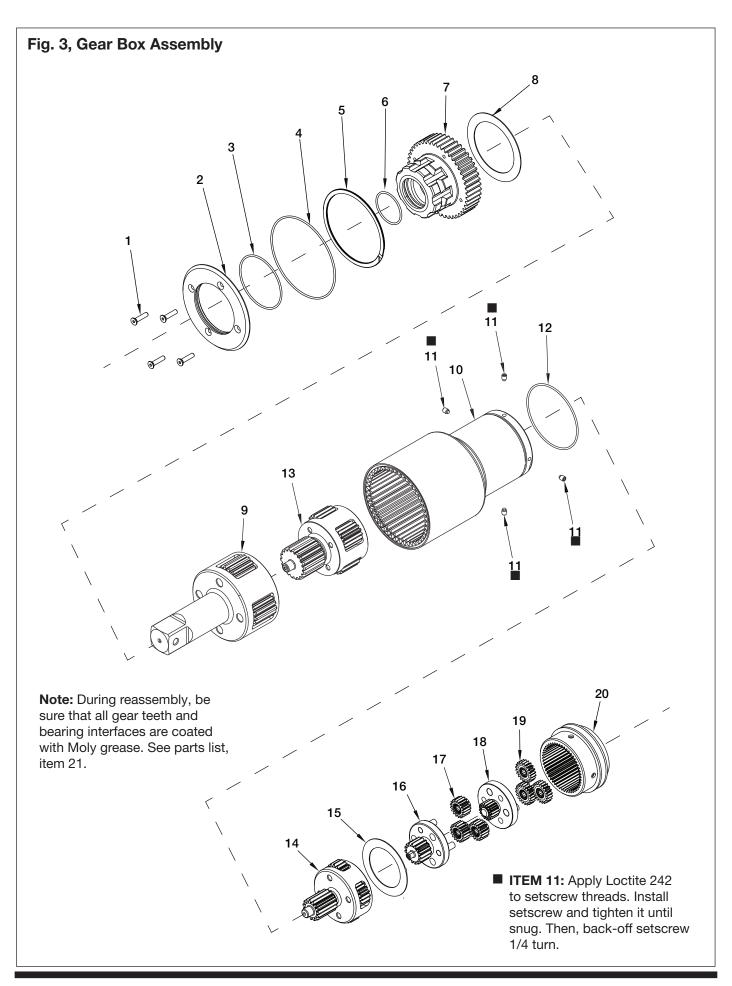
Torque coupling (item 7) to 33,9 to 61,0 Nm (25 - 45 ft-lbs) while holding nut (item 6) with a wrench, to prevent it from turning.

Repair Parts List, Fig. 2			ist, Fig. 2 L4083
Item	Part Number	Qty.	Description
1	+ DD3136259	1	Air Motor
2	DD5858147SR	1	Directional Control Knob
3	DD5914037SR	1	Gasket
4	+ DD3236116SR	1	Foam, Muffler - Air Motor
5	(included with item 1)	1	Exhaust Deflector Plate
6	(included with item 1)	1	Nut, Air Inlet
7	+ DD4847095SR	1	Coupling, Male 1/2" x 3/8" NPT
8	DD5855144SR	1	Trigger Kit (includes roll pin)
9	DD5472600SR	1	Replacement Rotor for Air Motor
10	DD5820600SR	1	Replacement Vanes for Air Motor (set of 6)
11	❖ DD5859016SR	1	Detent Service Kit (parts not shown)

<sup>+</sup> Included in service assembly DD3237900SR, Air Motor Assembly Kit.

❖ Detent service kit includes ball and spring for directional control spool (not shown).

Note: Items included in service assemblies and kits are not sold separately.



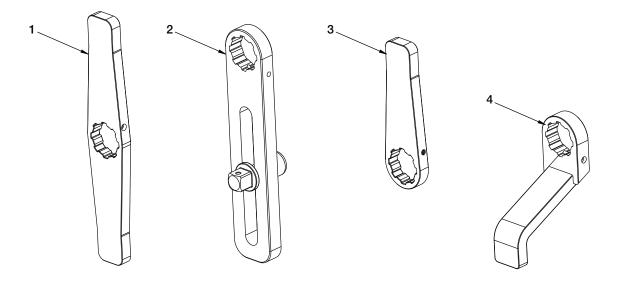
	Repair Parts List, Fig. 3						
Item	Part Number	Qty.	Description				
1	♦ ★ ◆ (not sold separately)	4	Cap Screw, Socket Head Flat				
2	★◆ DD5460600SR	1	Housing Cap, TW3000				
3	♦ ★ ◆ (not sold separately)	1	O-Ring, Housing Cap (small)				
4	♦ ★ ◆ (not sold separately)	1	O-Ring, Housing Cap (large)				
5	♦ ★ ◆ (not sold separately)	1	Retaining Ring				
6	♦ ★ ◆ (not sold separately)	1	O-Ring, Housing Head				
7	★◆ DD5461600SR	1	Housing Head, TW3000				
8	♦ ★ ◆ (not sold separately)	1	Thrust Washer				
9	★◆ DD5463600SR	1	Assembly, Drive Stage, TW3000				
10	★◆ DD5462600SR	1	Gear Housing, TW3000				
11	♦ ★ ◆ (not sold separately)	4	Set Screw				
12	♦ ★ ◆ (not sold separately)	1	O-Ring, Housing				
13	★◆ DD5470600SR	1	Gear Carrier, Fourth Stage, TW3000				
14	★◆ DD5469600SR	1	Gear Carrier, Third Stage, TW3000				
15	♦ ★ ◆ (not sold separately)	1	Thrust Washer, High Speed				
16	★◆ DD5467600SR	1	Gear Carrier, Second Stage, TW3000				
17	♦★ DD5468600SR	1	Planetary Gears, Second Stage, TW3000				
18	★ ◆ DD5465600SR	1	Gear Carrier, First Stage, TW3000				
19	♦★ DD5466600SR	1	Planetary Gears, First Stage, TW3000				
20	★ ◆ DD5464600SR	1	Ring Gear, TW3000				
21	✿ DD5587600SR	A/R	Grease, Moly, 16 oz, 454 g				

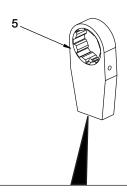
- ♣ Included in MKTW3000K Maintenance Kit.
- ★ Included in service assembly TW3000SR, Replacement Gearbox Assembly.
- ♦ Included in service assembly TW3000RSR, Replacement Gearbox Assembly with Reaction Arm. (See Figure 1 for reaction arm and set screw)
- Item includes set of three planetary gears with bearings.
  During reassembly, be sure that all gear teeth and bearing interfaces are coated with Moly grease.

A/R = Order as required.

Note: Items included in service assemblies are not sold separately.

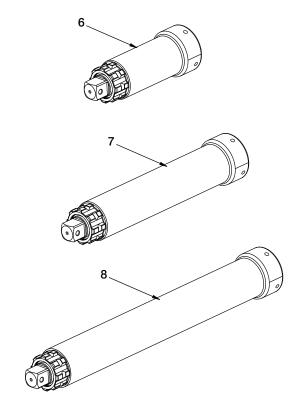
Fig. 4A, Accessories





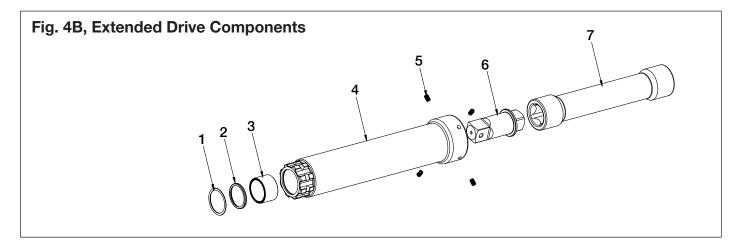
▲ WARNING Failure to observe and comply with the following instructions could result in failure of the blank reaction arm (item 5) during use. Death or personal injury could occur. Property damage may also occur.

- 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.

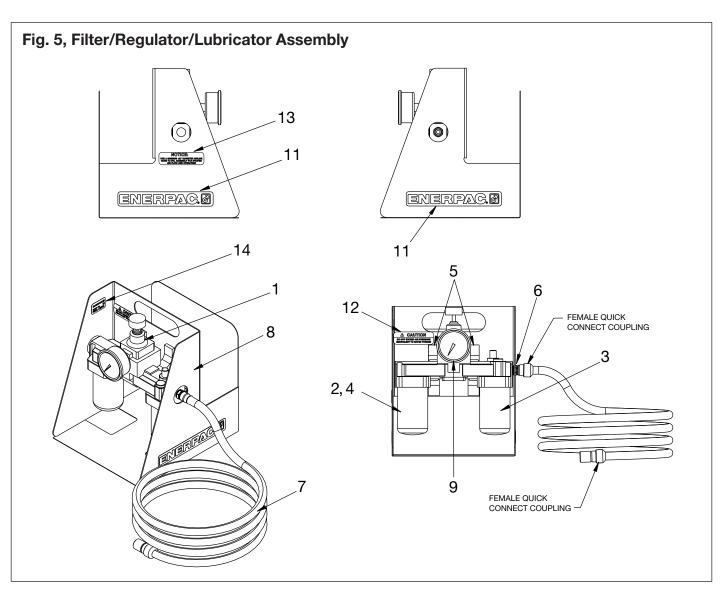


NOTICE: See Fig. 4B for service parts for items 6, 7 and 8.

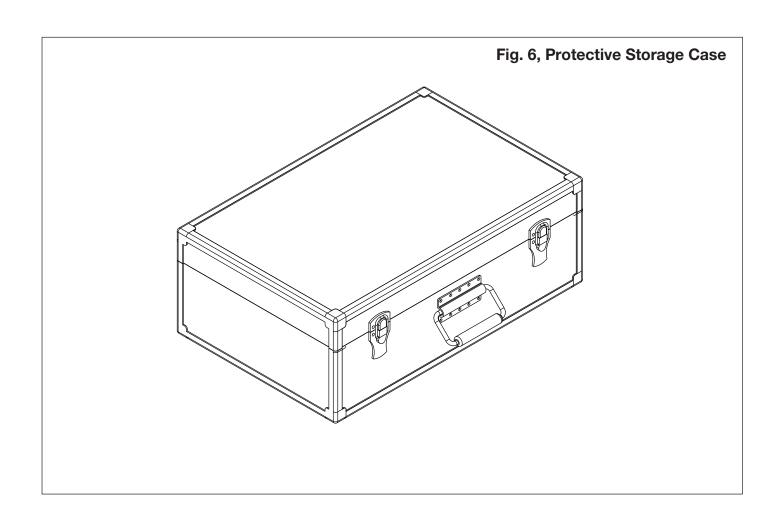
Repair Parts List, Fig. 4A L4083						
Item	Part Number	Qty.	Description			
1 DSATWS		1	Reaction Arm, Straight, Double			
	DSATWS	1	Screw, 1/4 - 28 x 2" long			
	1	Nylon Hex Nut, 1/4 - 28				
		1	Reaction Arm, Sliding			
2	SLRATWS	1	Screw, 1/4 - 28 x 2 - 1/4" long			
		1	Nylon Hex Nut, 1/4 - 28			
	1	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	ED6TWS	1	Extended Drive, 6" long (See Fig. 4B)			
0	EDOLMS	1	Screw, 1/4 - 28 x 3/8" long			
7	ED10TWC	1	Extended Drive, 12" long (See Fig. 4B)			
	ED12TWS	1	Screw, 1/4 - 28 x 3/8" long			
8	ED18TWS	1	Extended Drive, 18" long (See Fig. 4B)			
0	EDIQIMO	1	Screw, 1/4 - 28 x 3/8" long			
<b>NOTICE:</b> Mounting hardware not shown. See Figure 1 for standard reaction arm.						



Repair Parts List, Fig. 4B						
Item	Dı	rive Model / Part Nur	04.	Description		
	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	



	Repair Parts List, Fig. 5				
Item	Part Number	Qty.	Description		
1	DD5528600SR	1	Regulator Assembly		
2	DD5530600SR	1	Filter Assembly, Auto Drain		
3	DD5529600SR	1	Lubricator Unit		
4	DD5531600SR	1	Filter Element		
5	DD5532600SR	1	Mounting Bracket		
6	DD5767095SR	1	Fitting, 1/2" Male Coupling Plug x 1/2" - 14 NPT		
7	DD5534600SR	1	Hose Assembly, 10 Foot (with quick connect couplings)		
8	DD5533600SR	1	Enclosure		
9	DD5535600SR	1	Air Gauge		
10	DD5536600SR	1	Oil, Air System Lubricant (not shown)		
11	* DD4870026	2	Decal, Enerpac		
12	* DD5543026	1	Decal, Caution, Air Pressure		
13	* DD5544026	1	Decal, Notice, Air Flow		
14	* DD5578026	1	Decal, Product		
	uded as part of FRLDE	CAL Filt	er/Regulator/Lubricator Decal Set.		



Repair Parts List, Fig. 6 L4083				
Item Part Number Qty. Description				
1	DD4726530SR	1	Protective Storage Case, Models PTW3000	and PTW6000

# NOTES:

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# NOTES:

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