

Pow'R-LOCK™ Portable Lift System PL200 Series Models (air-operated)

L4076 Rev. G 05/2026

For date codes beginning with the letters "A", "B" and "D"

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.

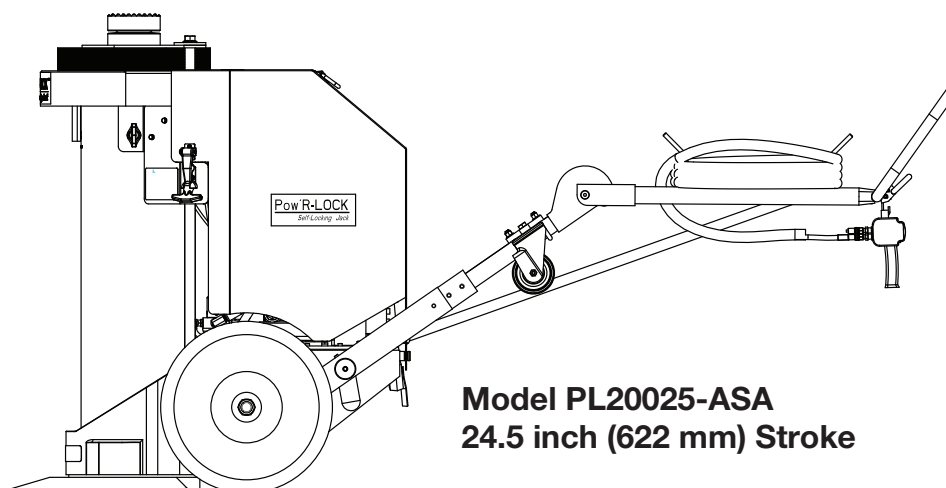
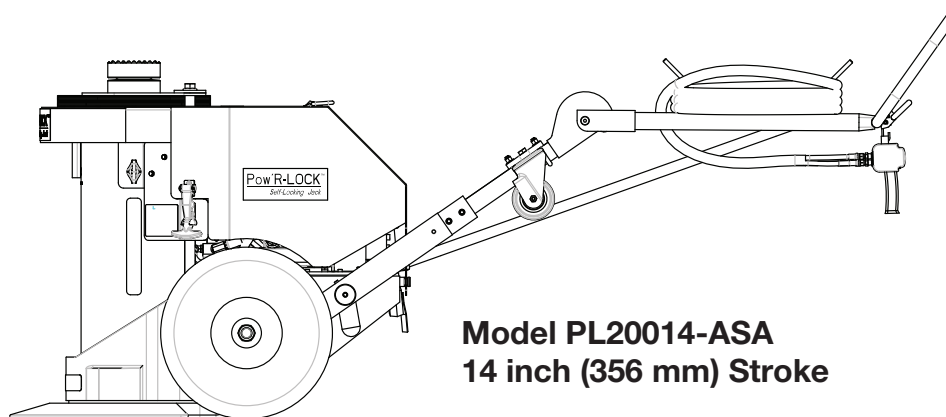
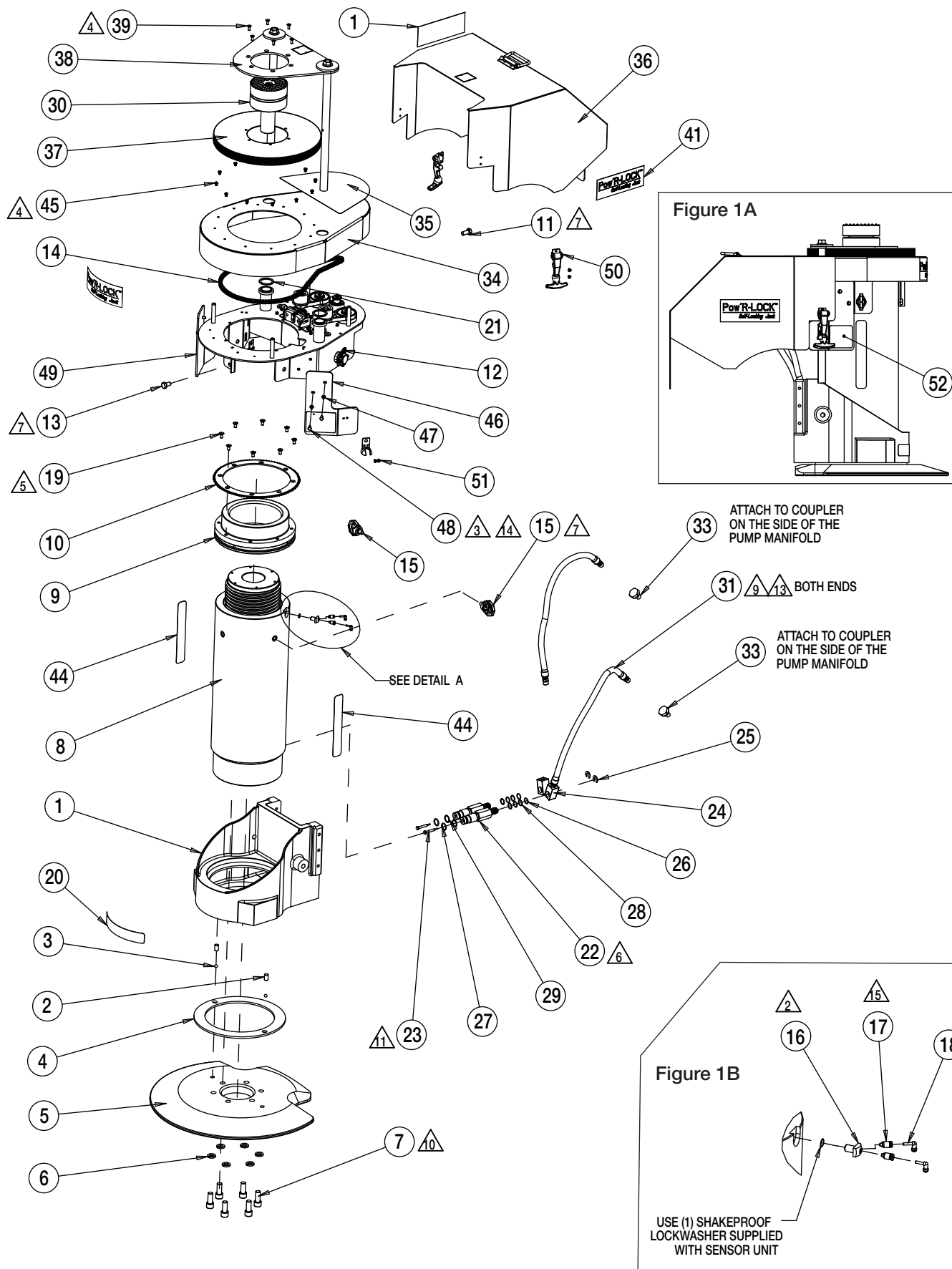


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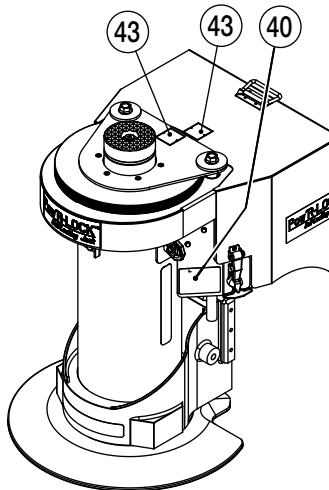
Figure 1 - Subassembly, Hydraulic Cylinder, Locknut and Locknut Chain Drive



Repair Parts List (Refer to Figures 1A and 1B)

Item	Part Number	Qty.	Description	Item	Part Number	Qty.	Description
1	DD4593500	1	Base, Pow'r Lock Cylinder	29	★ B1117565	2	Back-Up Washer
2	42275E	2	Base Pin	30	DD4880045SR	1	Load Cap Assembly, Swivel
3	44968E	2	Ball, Rubber, 3/8" 70	31	DD4760646	2	Hose, Cylinder to Pump
4	★ 43286E	1	Gasket	33	DC1392900	2	Coupler Half, Male
5	DD4552101	1	Base Plate	34	DD4384500	1	Chain Cover (top half)
6	93947E	6	Lockwasher, 5/8"	35	DD4913098	1	Cover, Inner Shroud
7	B1407028X	6	Screw, SHCS, 5/8-11 x 1.5" Zinc Plated	36	DD4884424	1	Shroud, Outer (short jacks)
8	DD4488900SR	1	Cylinder, 14 Inch Stroke	36	DD4899424	1	Shroud, Outer (tall jacks)
	DD4492900SR	1	Cylinder, 24.5 Inch Stroke		DD4756446	1	Boot, Short, Pow'r Lock
9	DD4483004	1	Locknut, Cylinder	37	DD4758446	1	Boot, Tall, Pow'r Lock
10	DD4585228	1	Sprocket, Locknut		DD4860500	1	Weldment, Anti-Rotation Bracket (short jacks)
11	CBE1223046-1B	1	HHCS, M12 x 25 Zinc Plated	38	DD4861500	1	Weldment, Anti-Rotation Bracket (tall jacks)
12	DD4379900SR	1	Chain Cover (bottom half)		CBE619028-1B	6	Screw, FHCS, M6 x 16 Zinc Plate
13	CBE1221046-1B	1	Screw, HHCS M12 x 20 Zinc Plated	39	DD4912026	1	Decal, Product Specification
14	DD4701063	1	Chain, #35 128 Links	40	DD4809026	3	Decal, Pow'r Lock
15	DD4544008	2	Lifting Eye, Cylinder	41	CU682026	2	Warning Decal, 2.0 x 2.12"
16	DD4296372	1	Sensor Unit, Air Proximity	43	DC9596026	2	Decal, Enerpac (short jacks)
17	DD4687097	2	Fitting, 10-32, x 5/32 PTC, Straight	44	DD4871026	2	Decal, Enerpac (tall jacks)
18	DD5245097	2	Fitting, Elbow 5/32" Tube Male to Female	45	CBE613028-1E	12	Screw, BHCS M6 x 8 Zinc Plated
19	CBE819028-1B	8	Screw, FHCS M8 x x 16 Zinc Plated	46	DD4917111	1	Bracket Extension, Bolt-On (Left-Hand)
20	DD4810026	1	Decal, 200 Ton Model	47	CAE1060108-1A	4	Flat Washer, M6
21	DD4885037	2	Gasket, Pow'r Lock Cover	48	CBE619046-1B	4	Bolt, Hex, M6 x 16 Zinc Plated
22	DD4606038	2	Adapter, Hydraulic Cylinder	49	DD4918111	1	Bracket Extension, Bolt-On (Right-Hand)
23	43320E	2	Inline Screen	50	DD4389070	2	Strap Assembly, Cover
24	CJ204190	2	Coupler Body, Air Pump	51	CSA5008003-1A	8	Pop Rivet, M5 x 8
25	CF874044	2	Retaining Ring	52	DD5572026	1	Decal, Warning
26	★ B1017903	4	O-Ring	★Item included in PL200K Seal Kit.			
27	★ B1117903	2	O-Ring				
28	★ B1017565	4	Back-Up Washer				

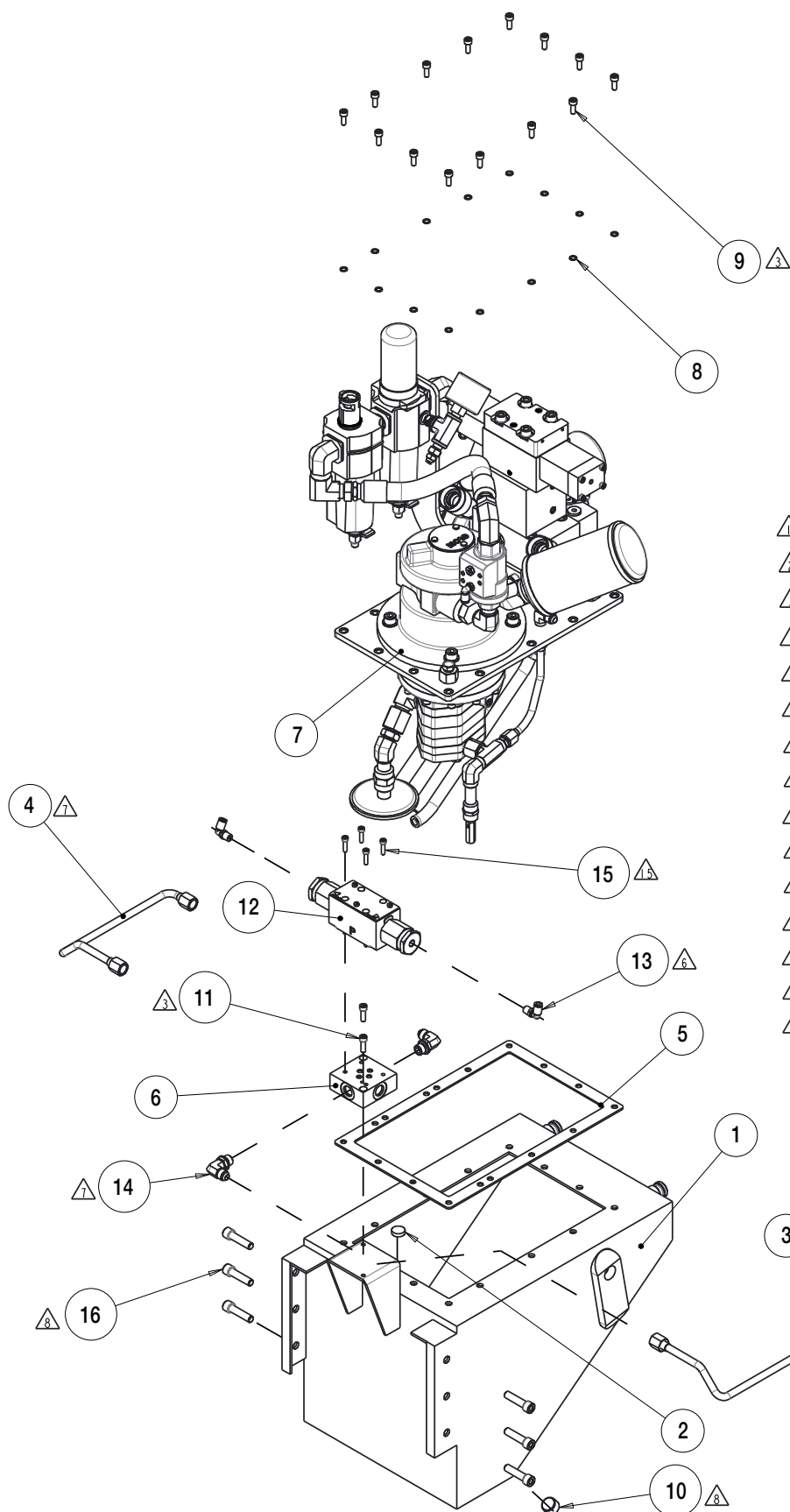
Figure 1C



NOTES:

- | | |
|---|---|
| ① TORQUE TO 16-19 FT-LBS [1.8-2.15 Nm] | ⑨ TORQUE TO 600 MIN IN-LBS [67.79 Nm] |
| ② TORQUE TO 50 IN-LBS [5.66 Nm] | ⑩ TORQUE TO 225 FT-LBS [305.05 Nm] |
| ③ TORQUE TO 50-60 IN-LBS [5.65-6.78 Nm] | ⑪ STAKE (3) PLACES |
| ④ TORQUE TO 65 IN-LBS [7.35 Nm] | ⑫ SNUG, BACK OFF 1/4 TURN |
| ⑤ TORQUE TO 80 IN-LBS [9.04 Nm] | ⑬ APPLY LOCTITE 545. |
| ⑥ TORQUE TO 100 IN-LBS [11.30 Nm] | ⑭ APPLY LOCTITE 243 |
| ⑦ TORQUE TO 220 IN-LBS [24.86 Nm] | ⑮ TORQUE TO 12-18 IN-LBS [1.36-2.03 Nm] |
| ⑧ TORQUE TO 250 IN-LBS [28.25 Nm] | |

Figure 2A - Pump and Reservoir Assembly



NOTES:

- ⚠ TORQUE TO 16-19 FT-LBS [1.8-2.15 Nm]
- ⚠ TORQUE TO 50 IN-LBS [5.66 Nm]
- ⚠ TORQUE TO 50-60 IN-LBS [5.65-6.78 Nm]
- ⚠ TORQUE TO 65 IN-LBS [97.35 Nm]
- ⚠ TORQUE TO 80 IN-LBS [9.04 Nm]
- ⚠ TORQUE TO 100 IN-LBS [11.30 Nm]
- ⚠ TORQUE TO 220 IN-LBS [24.86 Nm]
- ⚠ TORQUE TO 250 IN-LBS [28.25 Nm]
- ⚠ TORQUE TO 600 MIN IN-LBS [67.79 Nm]
- ⚠ TORQUE TO 225 FT-LBS [305.05 Nm]
- ⚠ STAKE (3) PLACES
- ⚠ SNUG, BACK OFF 1/4 TURN
- ⚠ APPLY LOCTITE 545
- ⚠ APPLY LOCTITE 243
- ⚠ TORQUE TO 35 IN-LBS [3.9 Nm]

Repair Parts List (Refer to Figure 2A)			
Item	Part Number	Qty.	Description
1	DD3949025	1	Reservoir, Hydraulic
2	C187018	1	Magnet
3	DD4777268	1	Tube, Hydraulic Supply
4	DD4778268	1	Tube, Hydraulic Return
5	★ 85469E	1	Gasket, Reservoir
6	DD4682840	1	Subplate
7	DD4295900SR	1	Assembly, Coverplate
8	S3037	14	Gasket
9	CBE619028-1A	14	SHCS, M6-1 x 16 Zinc
10	A1010245	1	Flush Plug, 1/2" with Sealant
11	93582E	2	SHCS, 1/4-20 x 3/4" Long
12	DD4717660	1	Valve, Directional Control
13	F100097-52	2	Connector, 0.125-27, 90 Degree Male
14	F100094-53	2	Elbow, 37 Degree Flare, Straight Thread
15	B1325028X	4	SHCS, 10-24 x 0.75 Zinc Plated
16	B1073028X	6	SHCS, 3/8-16 x 1.50 Long
★Item included in PL200K Seal Kit.			

Figure 2B - Assembled Views

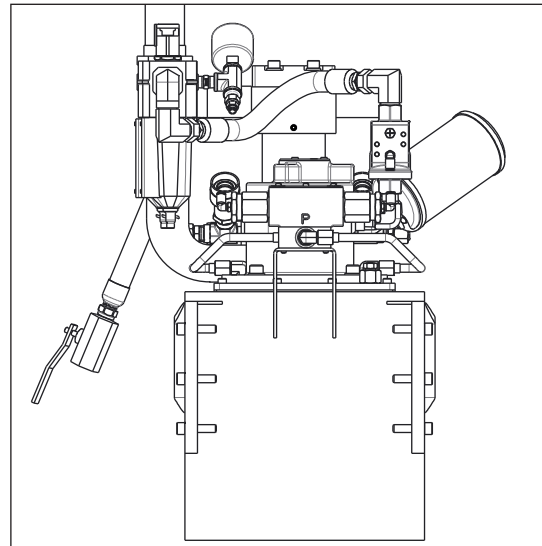
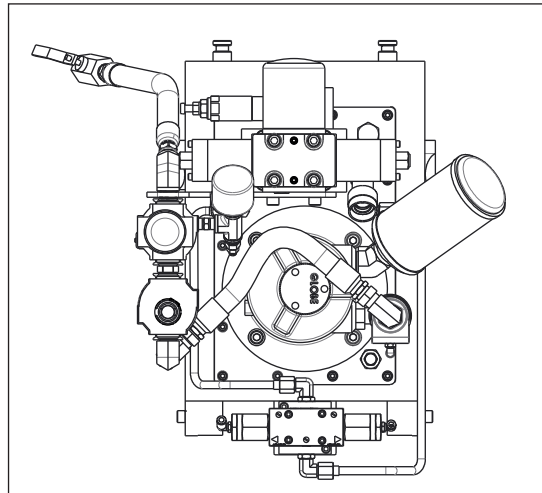
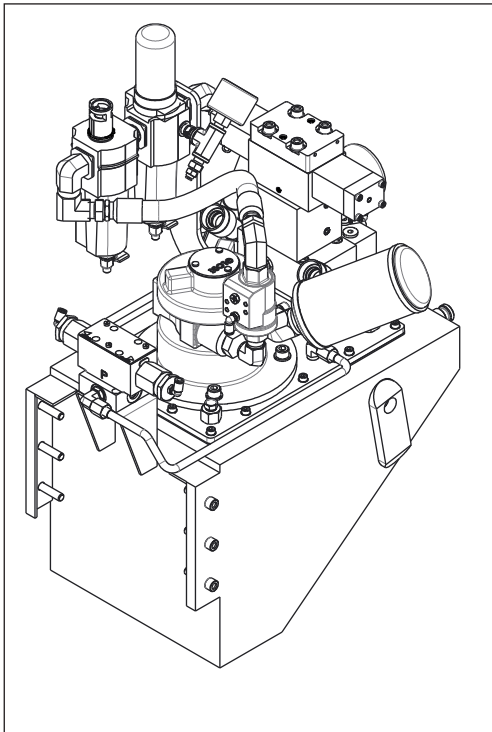
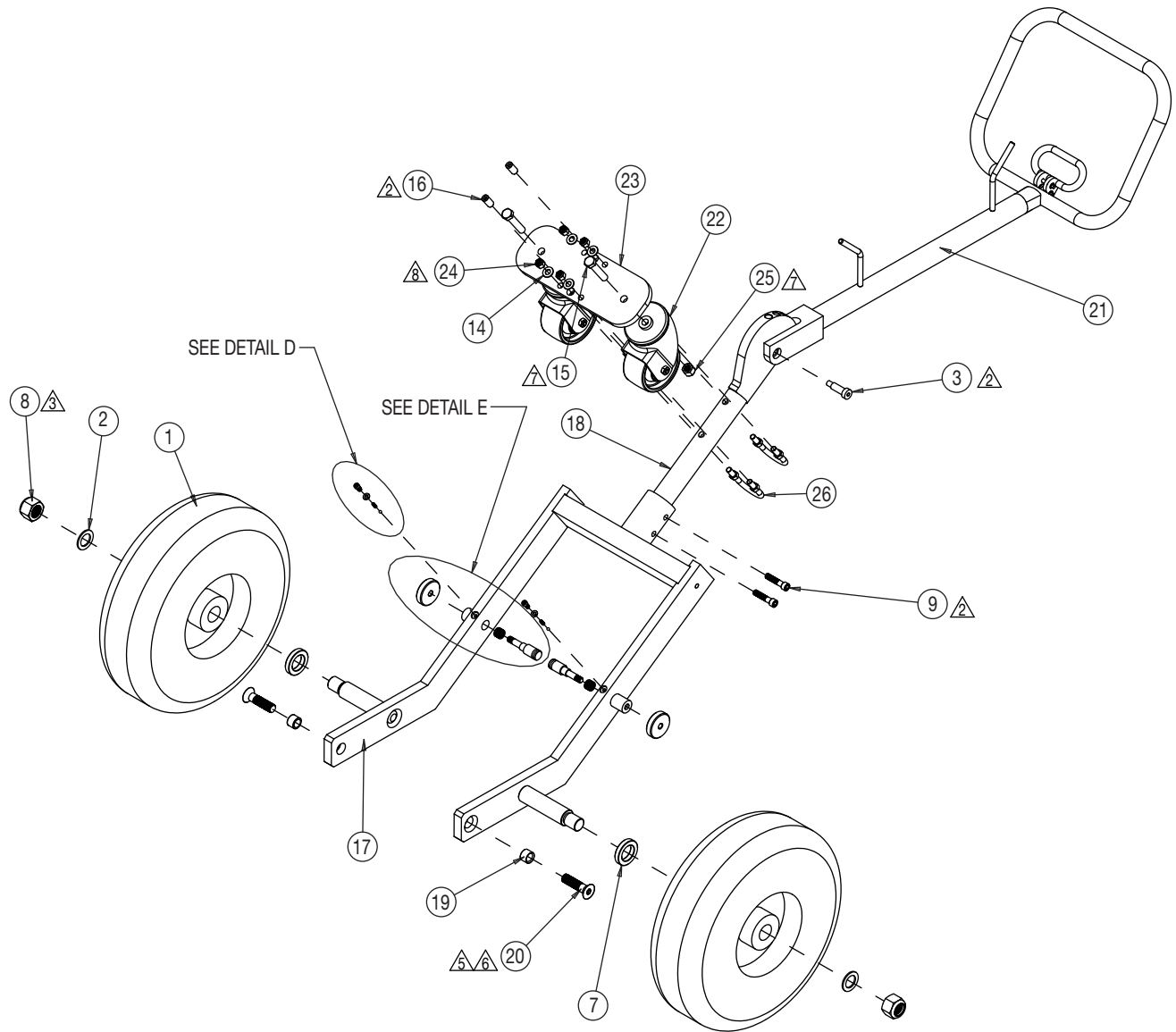


Figure 3A - Handle Assembly, Wheels and Tires



NOTES:

- △2 TORQUE TO 220 IN-LBS [24.86 Nm]
- △3 TIGHTEN SNUG TIGHT. THEN BACK OFF 1/4 TURN
- △5 APPLY NEVER SEIZE
- △6 TORQUE TO 85 FT-LBS [115.25 Nm]
- △7 TORQUE TO 45-50 FT-LBS [61.0-67.8 Nm]
- △8 TORQUE TO 140-150 IN-LBS [15.8-16.9 Nm]

Repair Parts List (Refer to Figures 3A and 3B)			
Item	Part Number	Qty.	Description
1	41944E	2	Tire, Semi-Pneumatic
2	41945E	2	Spacer
3	41983E	1	Screw, Shoulder
4	43323E	2	Plunger
5	43324E	2	Spring
6	43327E	2	Spring
7	43331E	2	Spacer, Axle
8	46053E	2	Hex Lock Nut, 1" -8
9	84692E	2	Screw, 3/8-16 x 1.75"
10	88508E	2	Knob, Adjustment
11	B1003028X	2	Screw, SHCS, 1/4-20 x 0.50", Zinc
12	B1005016	2	Ball, 3/16" Diameter
13	B1015066	2	Washer, Lock, 0.25"
14	B1026108X	4	Washer, 3/8" Zinc Plate
15	B1598046X	2	Screw, Hex 1/2-13 x 2-1/2" Zinc,
16	BC5016027AX	2	Setscrew, Cup Point, 1/2-13 x 1" Zinc
17	DD4603500	1	Weldment, Axle
18	DD4604500	1	Weldment, Lower Handle
19	DD4696186	2	Spacer, Axle Fork
20	DD4736047	2	Screw, FHSC, 5/8-18 x 2.5"
21	DD4737900SR	1	Handle, Upper Sub Assembly (See Figure 4)
22	DD5848706	2	Caster, Pow'r Lock
23	DD5849101	1	Plate, Caster, Pow'R Lock
24	DD5864021	4	Nut, Lock 3/8"-16 Grade 5 Zinc
25	DD5865021	2	Nut, Lock 1/2"-13 Grade 5 Zinc
26	F100089-9	2	U-Bolt 3/8-16 x 1-1/4" pipe

**Figure 3B - Handle Lock Pin Assembly
(Details D and E)**

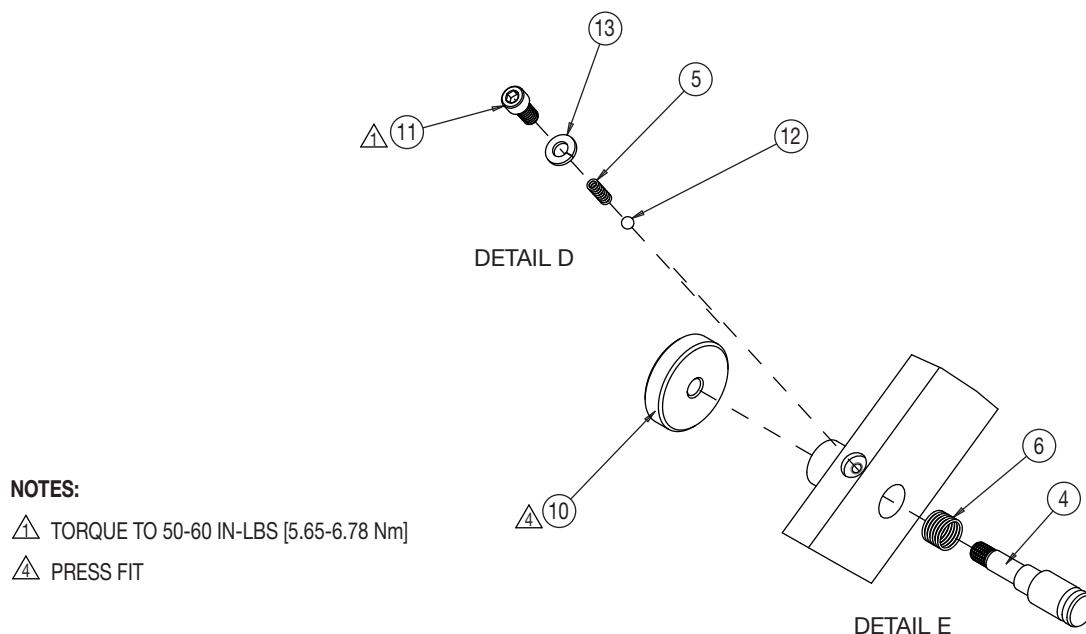
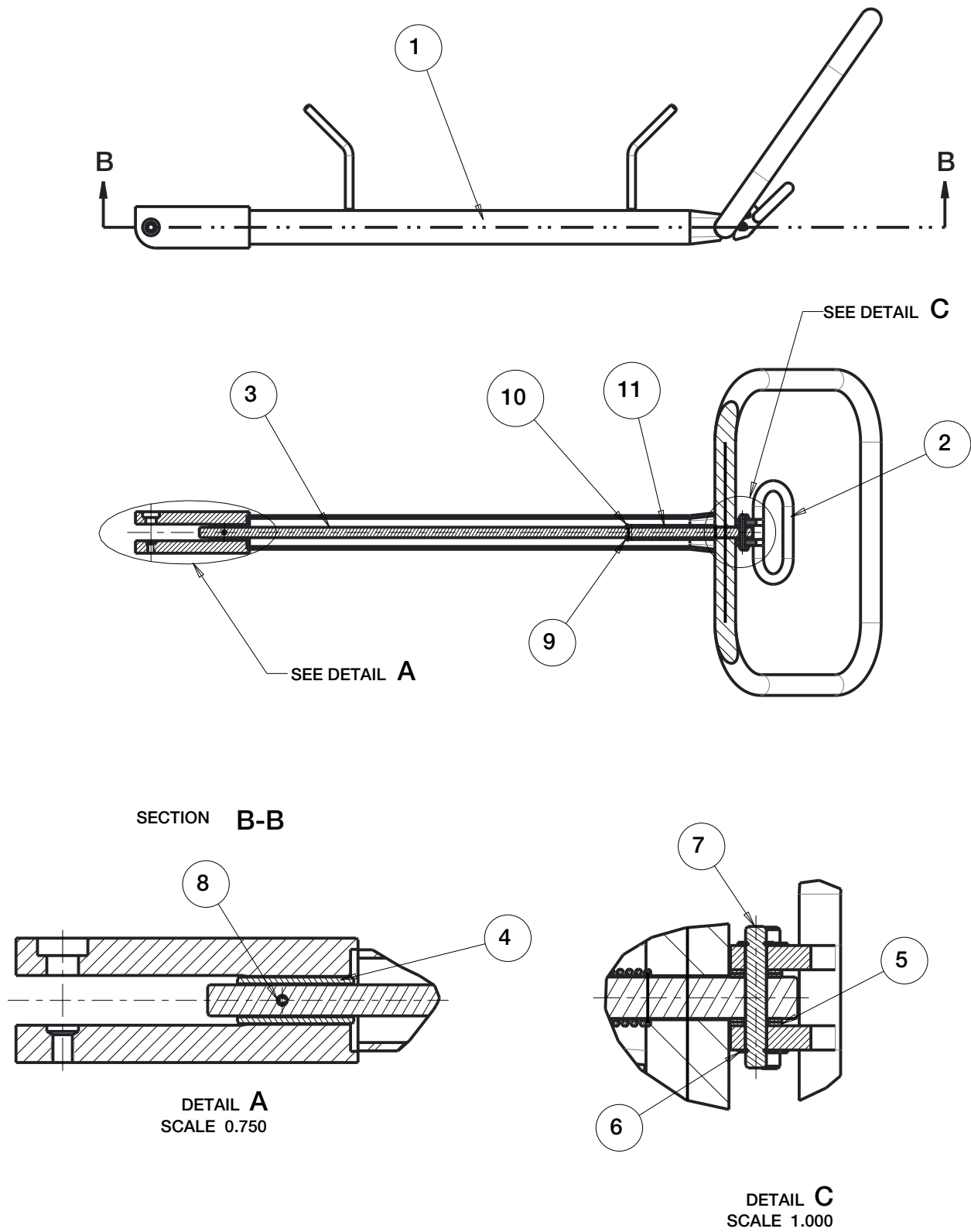
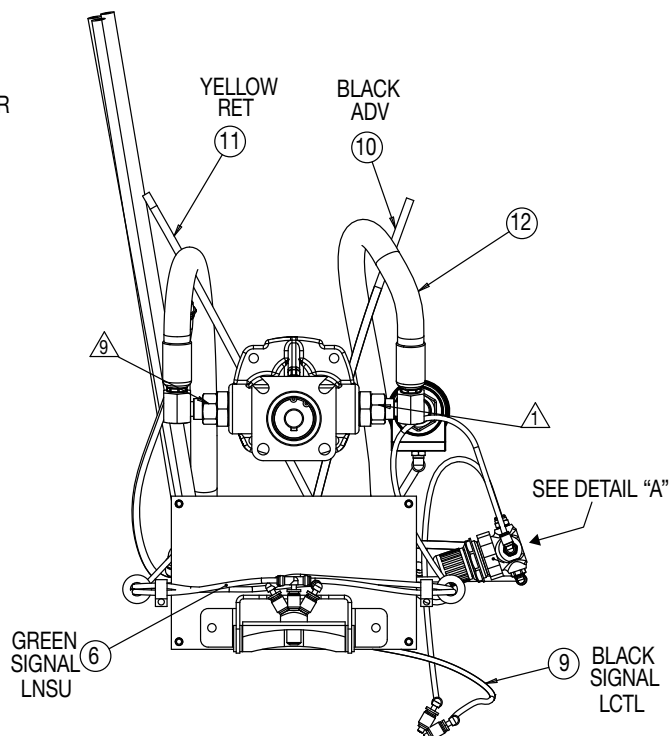
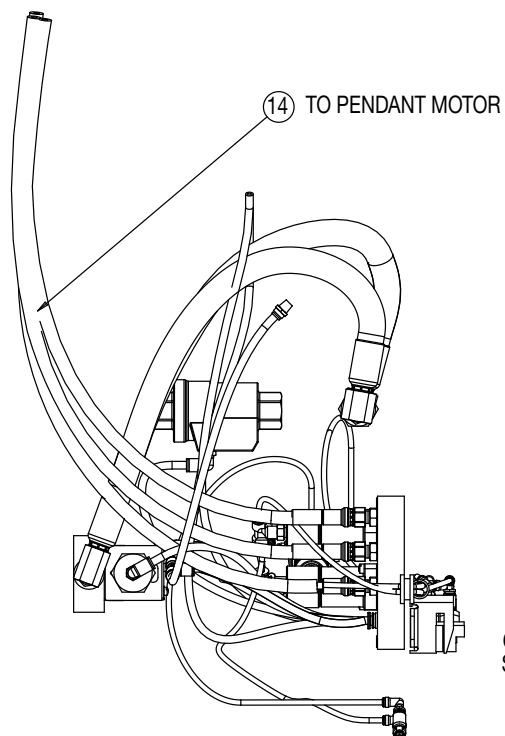


Figure 4 - Upper Handle Sub Assembly

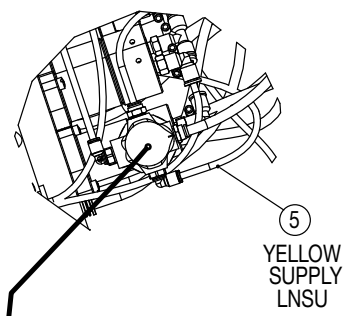


Repair Parts List (Refer to Figure 4)			
Item	Part Number	Qty.	Description
1	* DD4705500	1	Weldment, Upper Handle
2	* 42368E	1	Lever, Handle Lock
3	* DD4703107	1	Rod, Handle
4	* 41600E	1	Sleeve
5	* 88429E	4	Washer, 1/4" Stainless Steel
6	* 42340E	4	Pin Ring
7	* 42338E	2	Pin, Handle Lever
8	* 42497E	1	Roll Pin, 5/32 x 7/8
9	* 41613E	1	E-Ring, .8/.82 x .042
10	* 41614E	1	Washer, 9/16 ID x 3/32 Inch
11	* 41602E	1	Spring, 0.656 x 9.50
* Item included in DD4737900SR Upper Handle Sub Assembly			

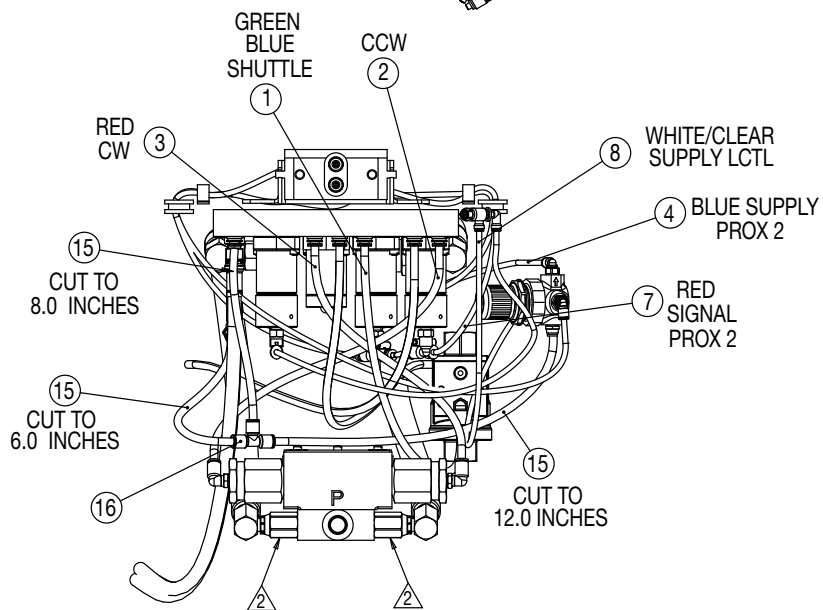
Figure 5 - Air and Hydraulic Lines



Detail "A"



SET TO 6 PSI WITH INPUT
PRESSURE SET TO 100 PSI.



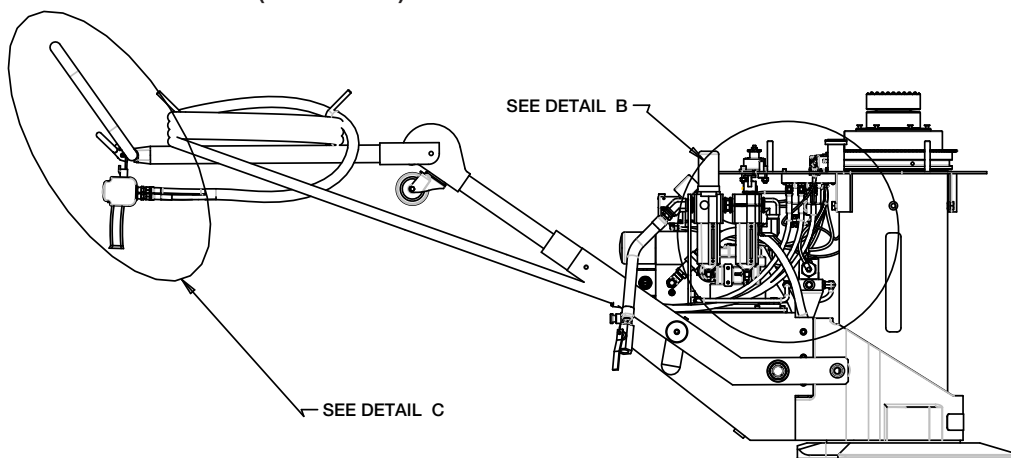
NOTES:

⚠ TORQUE TO 60 FT-LBS [81.34 Nm] FOR (2) #8 SAE HOSE FITTINGS

⚠ TORQUE TO 420 IN-LBS [47.45 Nm] FOR (2) #6 SAE HOSE FITTINGS

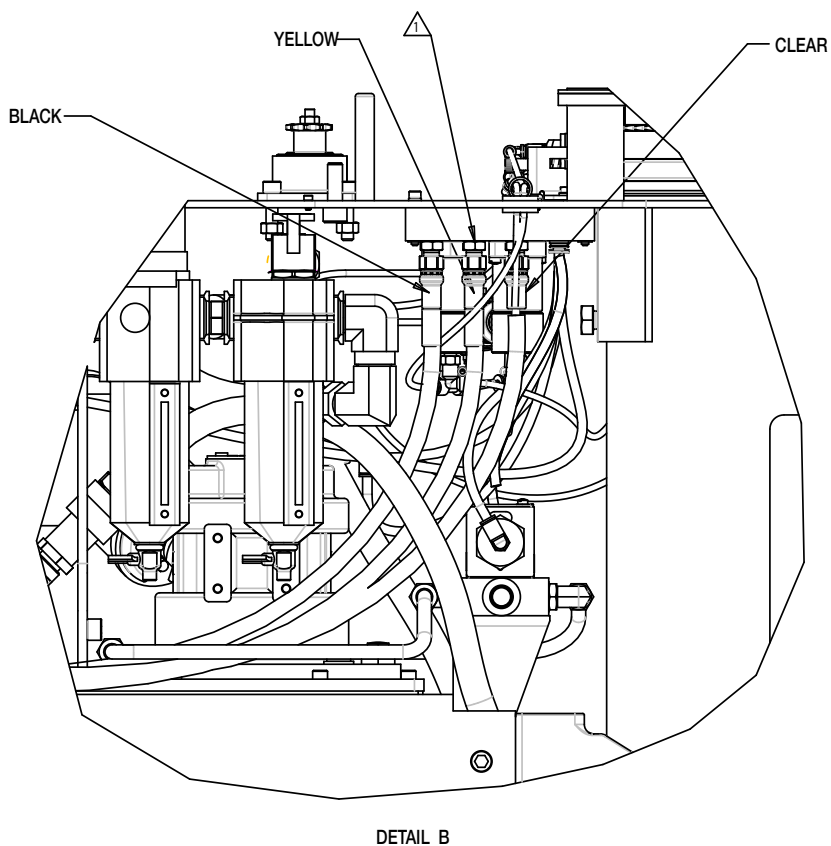
Repair Parts List (Refer to Figure 5)			
Item	Part Number	Qty.	Description
1	DD4822268SR	1	Tubing, 1/4" Green, Shuttle
2	DD4821268SR	1	Tubing, 1/4" Blue, Counter-Clockwise
3	DD4823268SR	1	Tubing, 1/4" Red, Clockwise
4	DD4826268SR	1	Tubing, 5/32" Blue, Supply, Proximity #2 Sensor
5	DD4830268SR	1	Tubing, 5/32" Yellow, Supply LNSU
6	DD4827268SR	1	Tubing, 5/32" Green, Signal LNSU
7	DD4828268SR	1	Tubing, 5/32" Red, Signal, Proximity #2 Sensor
8	DD4829268SR	1	Tubing, 5/32" White, Supply LCTL
9	DD4825268SR	1	Tubing, 5/32" Black, Signal LCTL
10	DD4820268SR	1	Tubing, 1/4" Black, Advance
11	DD4824268SR	1	Tubing, 1/4" Yellow, Retract
12	DD4742646	2	Hose, Hydraulic Motor Tall
14	DD4761900	1	Hose Assembly, 20 Foot Air Pendant
15	DD5248268SR	1	Tubing, 1/4" White, Supply
16	DD5685097	1	Fitting, Tee .25 Tube Connector
Note: Tubing is pre cut to the proper length for Model PL200025-ASA. For Model PL200014-ASA, tubing can be cut to a shorter length (as required) if it is too long.			

Figure 6A - Air Lines and Pendant (View 1 of 3)



Note: Access cover and various other parts are removed in these views for illustrative purposes.

Figure 6B - Air Lines and Pendant (View 2 of 3)



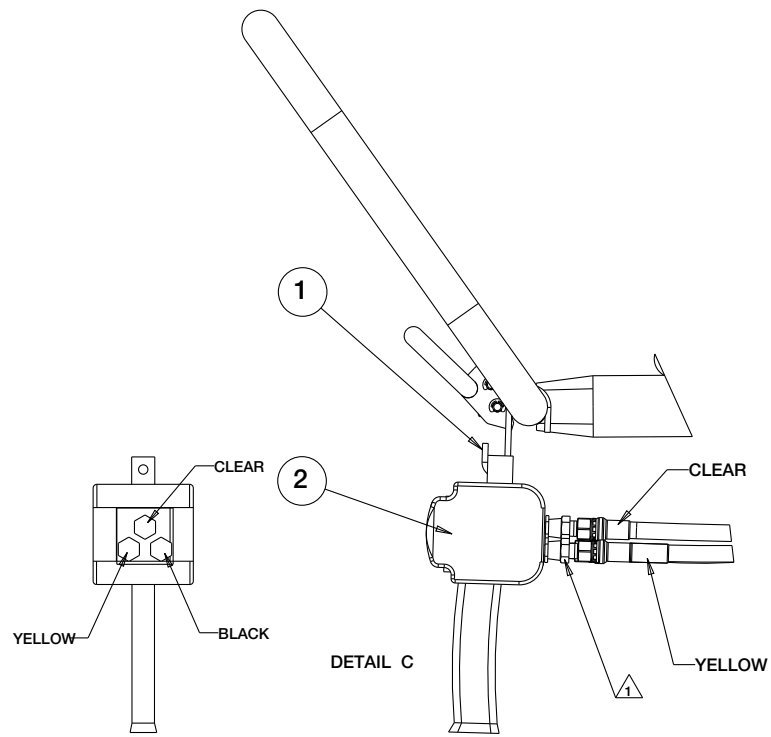
NOTES:

△ TORQUE TO 70-90 IN*LBS [7.9-10.2 Nm]

Repair Parts List (Refer to Figures 6A through 6C)

Item	Part Number	Qty.	Description
1	42367E	1	S-Hook, Pendant
2	41950SR	1	Motor Pendant, Air (See Figure 8)

Figure 6C - Air Lines and Pendant (View 3 of 3)



PENDANT AIR CONNECTIONS
(REAR VIEW)
NOTES:

 TORQUE TO 70-90 IN*LBS [7.9-10.2 Nm]

Figure 7 - Hydraulic and Pneumatic Diagram

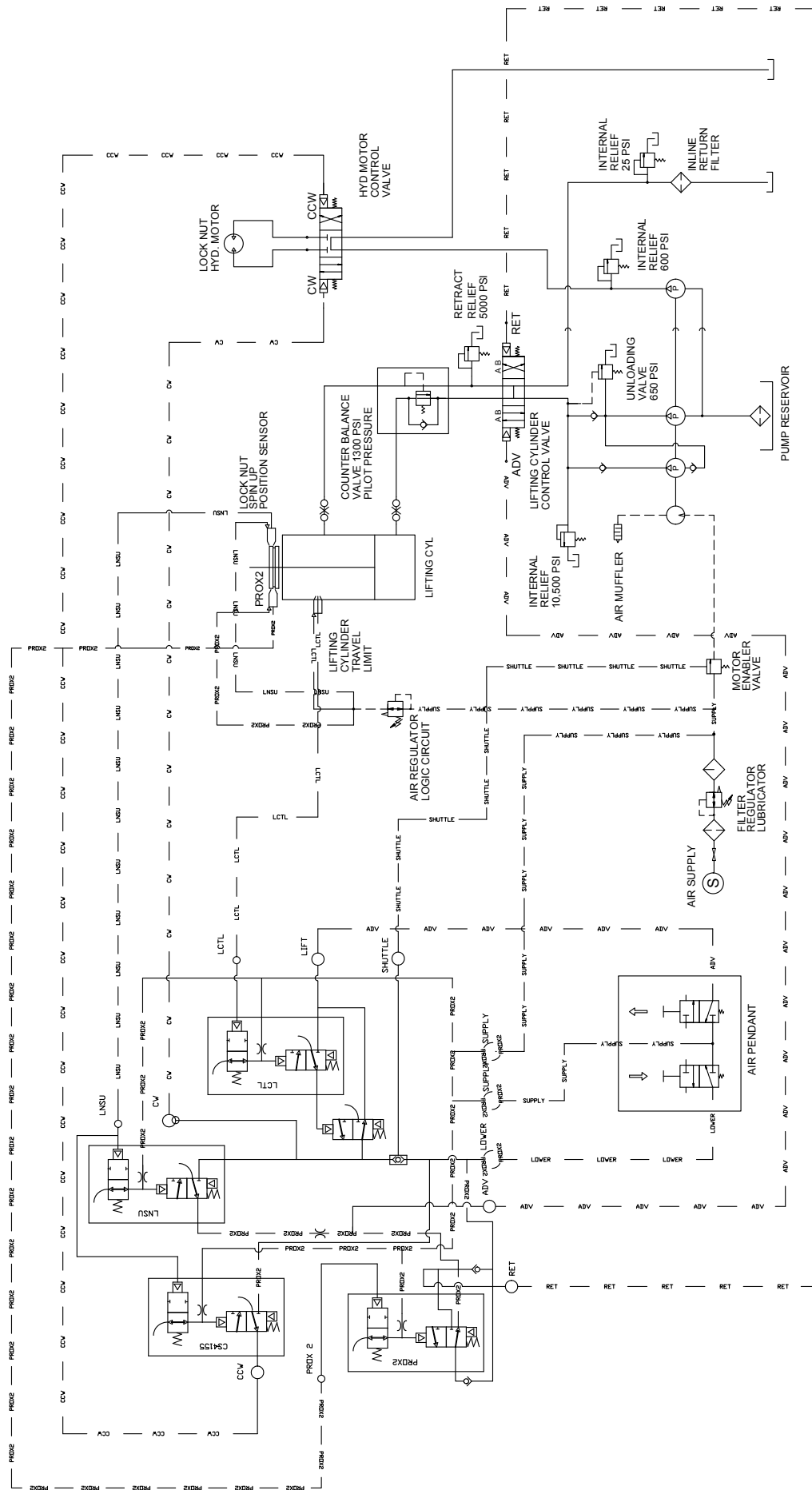
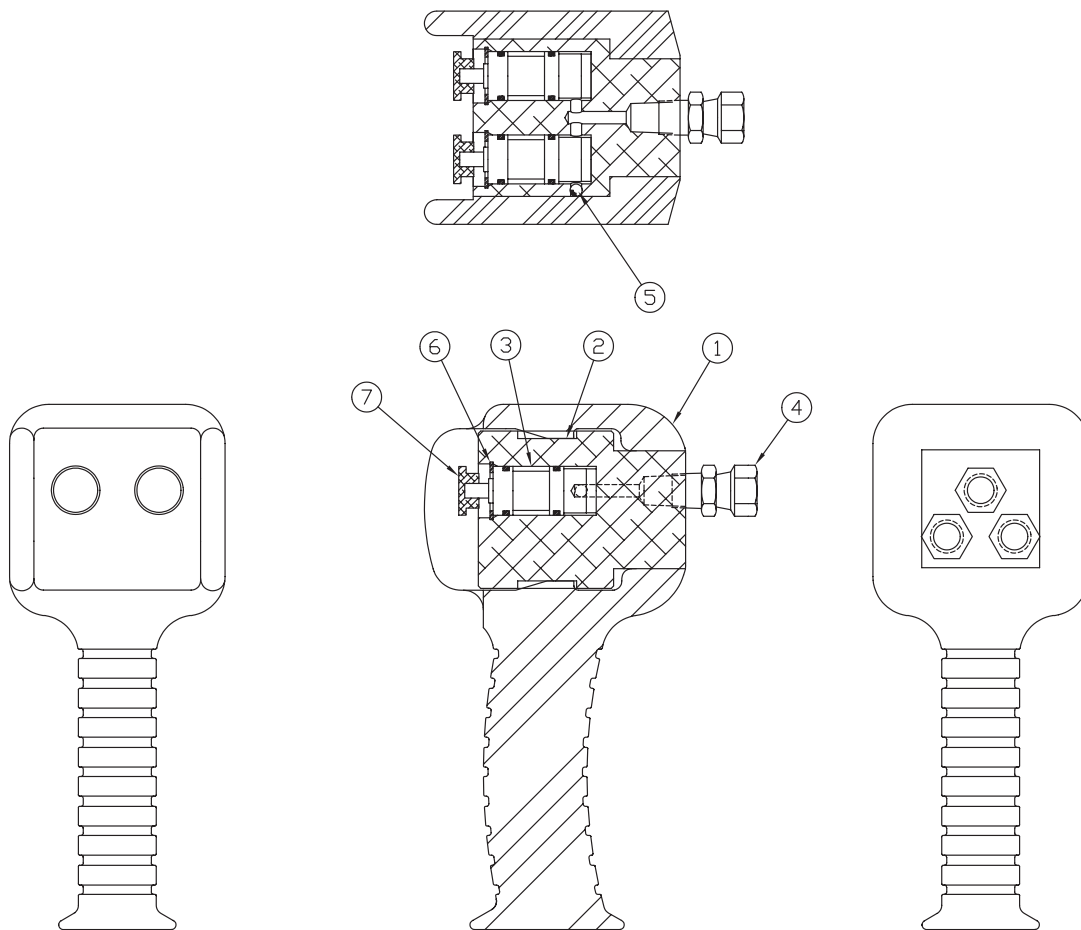


Figure 8 - Motor Pendant

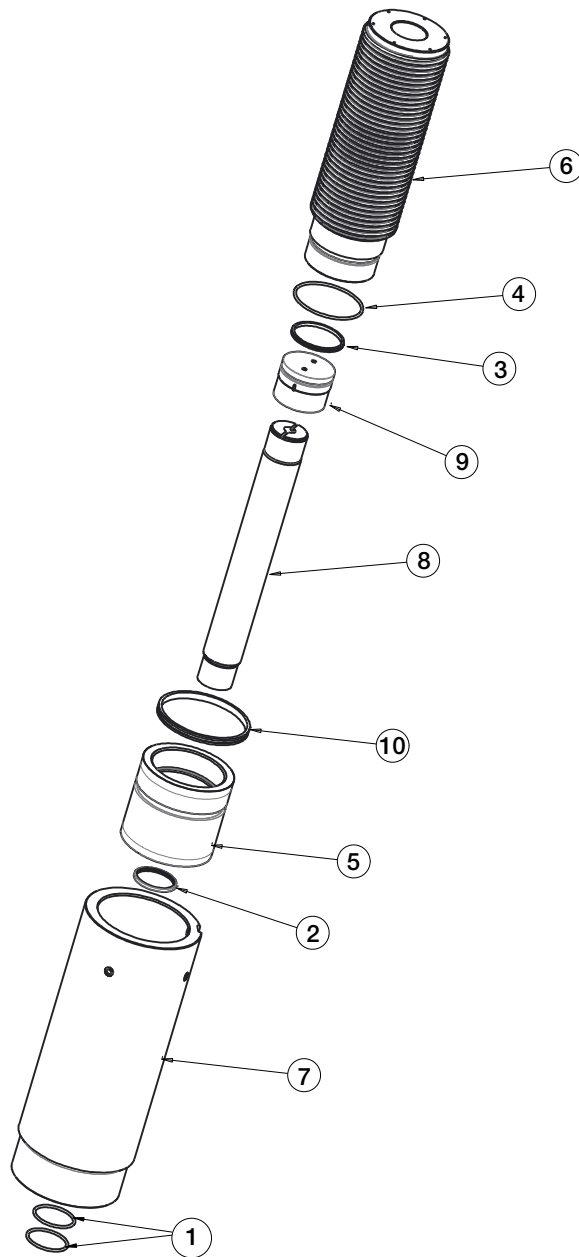


Repair Parts List (Refer to Figure 8)

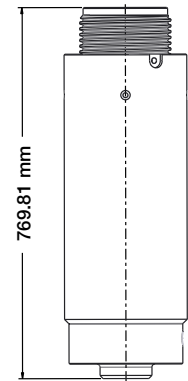
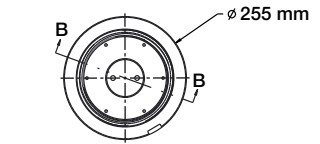
Item	Part Number	Qty.	Description
1	■ 41968E	1	Pendant Body
2	■ 41969E	1	Block Air Pendent
3	■ 41963E	2	Cartridge-Air
4	■ 42381E	3	Swivel ADP 1/8"
5	■ 6069613E	3	Ball 5/32"
6	■ 68808E	2	Retaining Ring
7	■ 41970E	2	Cartridge Cap

■ Item included in 41950SR Motor Pendant Service Assembly.

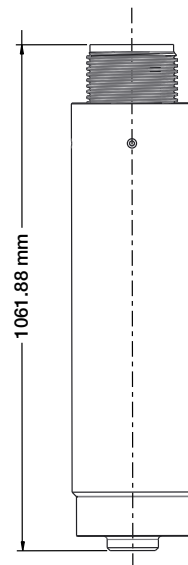
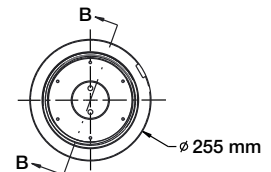
Figure 9A - Hydraulic Cylinder



- ⚠ APPLY LOCTITE 243.
- ⚠ TORQUE TO 70-80 FT-LBS [95-108 Nm].
- ⚠ APPLY NEVER SEIZE TO THREADS.
- ⚠ TORQUE TO 200 FT-LBS [271 Nm].
- ⚠ TORQUE TO 175 FT-LBS [237 Nm].



**ASSEMBLED HEIGHT
PL20014-ASA**

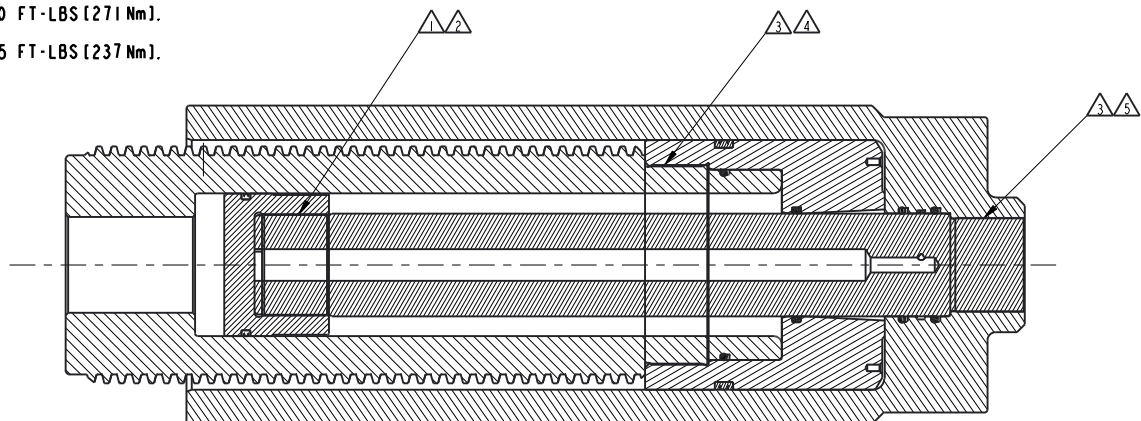


**ASSEMBLED HEIGHT
PL20025-ASA**

Repair Parts List (Refer to Figure 9A and 9B)				
Item	Part Number		Qty.	Description
	Model PL20014-ASA	Model PL20025-ASA		
01	◆ B1339403	◆ B1339403	2	O-Ring, Polyurathane -339
02	◆ B1339514	◆ B1339514	1	GT Ring, Rod Seal -339
03	◆ DD5822476	◆ DD5822476	1	Seal Assembly, Piston
04	◆ B1358403	◆ B1358403	1	O-Ring, Polyurathane -358
05	DD4468040	DD4468040	1	Plunger, Lower
06	DD4469040	- - -	1	Plunger, Upper, 14" Stroke
	- - -	DD4493040	1	Plunger, Upper, 24.5" Stroke
07	DD4485030	- - -	1	Base, Cylinder, 14" Stroke
	- - -	DD4490030	1	Base, Cylinder, 24.5" Stroke
08	DD4486416	- - -	1	Stem, 14" Stroke
	- - -	DD4491416	1	Stem, 24.5" Stroke
09	DD4487051	DD4487051	1	Piston, Retract
10	◆ DD4538476	◆ DD4538476	1	GT Ring, Piston (metric)
◆Item included in DD4488900K Cylinder Seal Kit.				

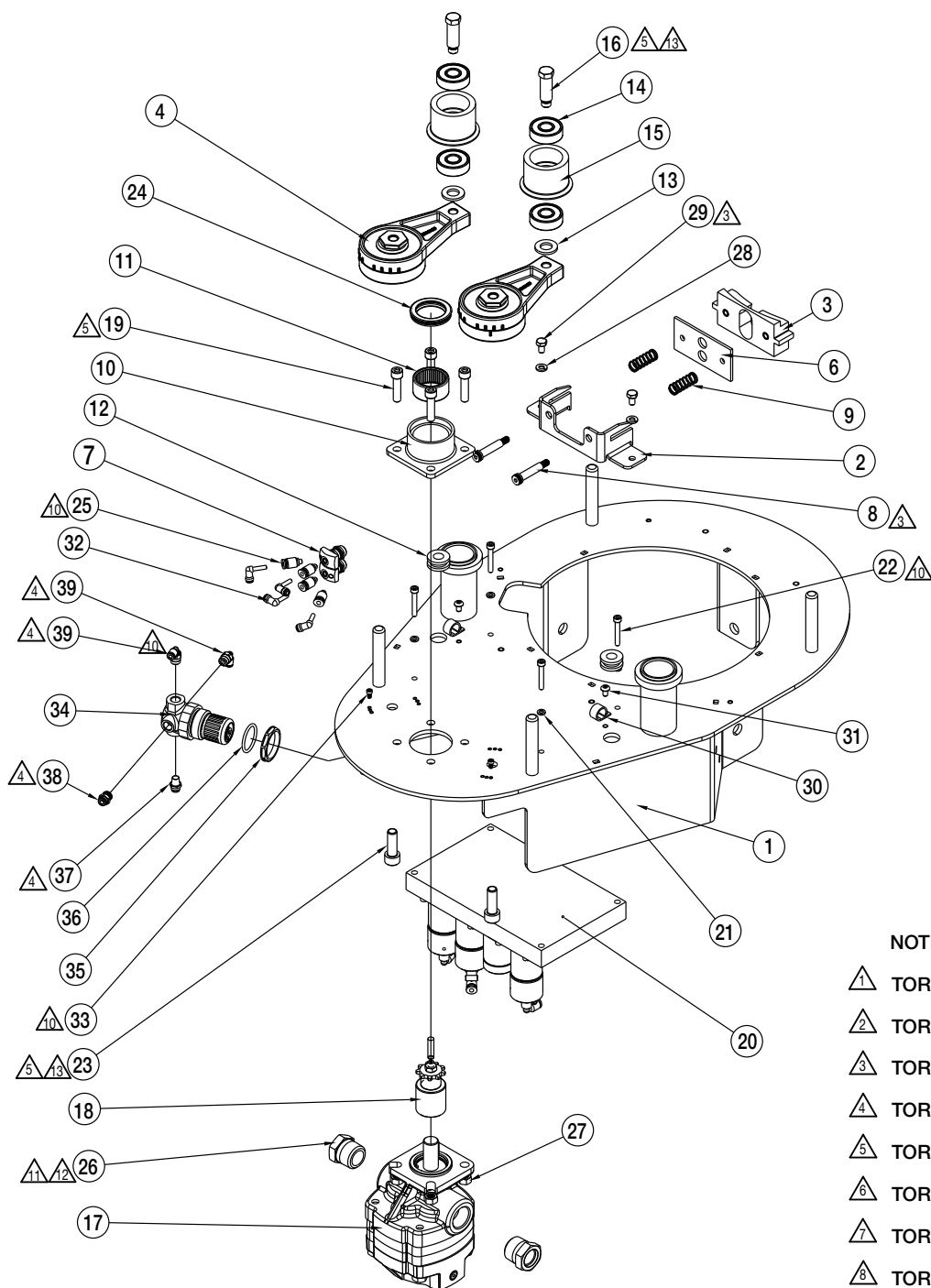
Figure 9B - Sectional View

- △ APPLY LOCTITE 243.
- △ TORQUE TO 70-80 FT-LBS [95-108 Nm].
- △ APPLY NEVER SEIZE TO THREADS.
- △ TORQUE TO 200 FT-LBS [271 Nm].
- △ TORQUE TO 175 FT-LBS [237 Nm].



Note: Invert cylinder when testing to eliminate air in the cylinder

Figure 10 - Lower Chain Cover Assembly

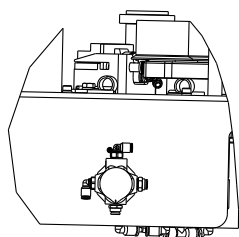


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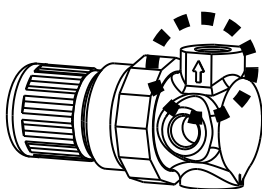
- △1 TORQUE TO 10 FT-LBS [1.13 Nm]
- △2 TORQUE TO 45 IN-LBS [5.08 Nm]
- △3 TORQUE TO 50 IN-LBS [5.65 Nm]
- △4 TORQUE TO 80 IN-LBS [9.04 Nm]
- △5 TORQUE TO 100 IN-LBS [11.30 Nm]
- △6 TORQUE TO 200 IN-LBS [22.60 Nm]
- △7 TORQUE TO 360 IN-LBS [40.67 Nm]
- △8 TORQUE TO 375 IN-LBS [42.37 Nm]
- △9 TORQUE TO 550 IN-LBS [56.49 Nm]
- △10 TORQUE TO 10 IN-LBS [1.5 Nm]
- △11 TORQUE TO 125 FT-LBS [170 Nm]
- △12 APPLY LOCTITE 545.
- △13 APPLY LOCTITE 243

Item 34 Installation:

SIDE VIEW

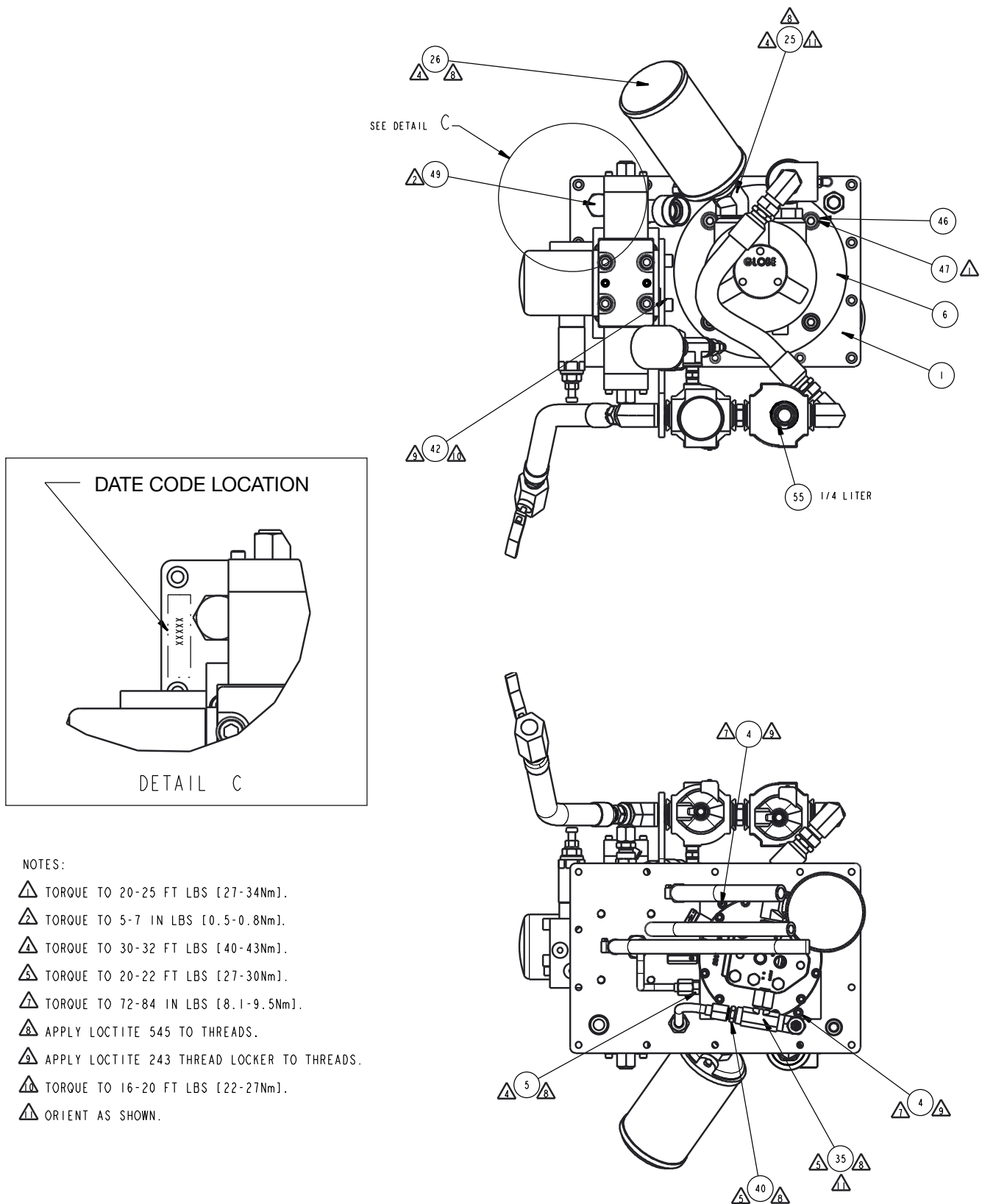


ARROW MUST FACE UP WHEN INSTALLED



Repair Parts List (Refer to Figure 10)			
Item	Part Number	Qty.	Description
1	DD4382500	1	Weldment, Cover (bottom)
2	DD4598111	1	Bracket, Shoe Assembly
3	DD4595900	1	Assembly, Locknut Shoe
4	DD4683103	2	Tensioner, Chain
6	DD4596101	1	Plate, Backer Shoe
7	DD4296372	2	Sensor Unit, Air Proximity
8	DD4685130	2	Screw, Shoulder, 1/4-20 x 1.25
9	DD4684110	2	Spring, Compression, 0.48 x 1.25"
10	DD4612001	1	Bearing Housing
11	66030E	1	Roller Bearing, 1-1/4 x 1/2 x 3/4" wide
12	DD4624808	2	Grommet, Rubber
13	CAE1120108-1A	2	Washer, M12
14	DD4902155	4	Bearing, Double Seal
15	DD4896281	2	Roller, Chain
16	DD4765242	2	Bolt, Tensioner Roller
17	DD4718259	1	Motor, Hydraulic, Chain Drive
18	DD4009900	1	Gear, Pinion, Hydraulic Motor
19	B1351028X	4	SHCS, 5/16-18 x 1.25" Long
20	▲ DD4694840	1	Manifold, Air Logic
21	B1080066X	4	Lock Washer, #10 Zinc
22	B1332028X	4	Screw, SHC, #10-32 x 1.25, Zinc Plated
23	CBE1025028-1A	2	SHCS, M10 x 30
24	45930	1	Shaft Seal, G5
25	DD4687097	4	Fitting, 10-32 x 5/32 PTC, Straight
26	DD4772095	2	Adapter, 3/4" NPT #8 SAE
27	DD4757122	4	Nut, Lock, 5/16-18 Grade 2
28	CCE1060108-5A	2	Lock Washer, M6
29	CBE615046-1B	2	HHCS, M6 x 10 Zinc Plated
30	DD4797017	2	Clip, 1/2" Cable
31	CBE513028-1E	2	BHCS, M5 x 8, Zinc Plated
32	DD5245097	4	Fitting, Elbow, 5/32 Tube, Male to Female
33	DD5246028	2	Screw, SHC, #6-32 x 0.25, Zinc Plated
34	DD5683664	1	Valve, Reducing Air, 10 psi
35	DD5684021	1	Nut, Panel Mount, Metal
36	B1256503	1	O-Ring
37	F100097-33	1	Fitting, .125 NPT Male, .25 Tube
38	DD5687097	1	Fitting, .125 NPT Male, .156 Tube
39	DC8066097	2	Elbow, 1/8 x 5/32 #3109-04-11
▲ Note: Air logic unit contains no user-replacable or user servicable parts.			

Figure 11A - Pump and Coverplate Assembly (View 1 of 3)



Repair Parts List (Refer to Figure 11A)			
Item	Part Number	Qty.	Description
1	DD4233101	1	Plate, Reservoir Cover
4	CBE621028-1A	2	SHCS M6x20 Zinc
5	F100094246	1	Connector, Flare
6	DD4436259	1	Air Motor
25	F100095-108	1	Elbow, Street, 45 Degree, 3/4 CD45-S
26	DD4791116	1	Muffler, Air Exhaust
35	F100095-35	1	0.25 NPT Tee
40	F100094-5	1	Male Connector
42	B1065028X	2	3/8-16 SHCS, 0.75" Lg.
46	CAE1100108-1A	4	Washer, 10mm Zinc
47	CBE1027028-1A	4	SHCS, M10 x 35
49	B1022006	1	Hex Plug
55	DD5142835	1	Lubricant, Air Motor
★Item included in PL200K Seal Kit.			

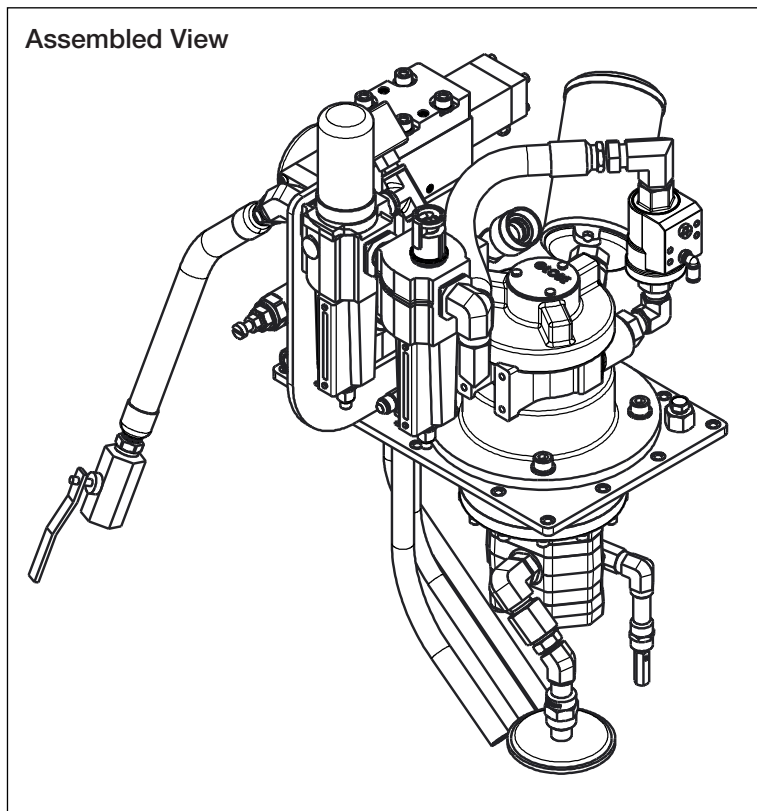
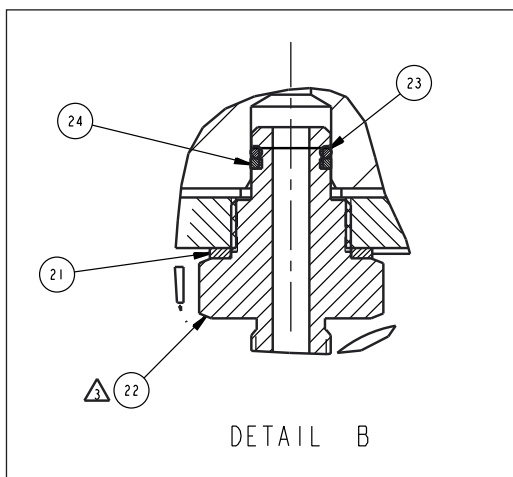
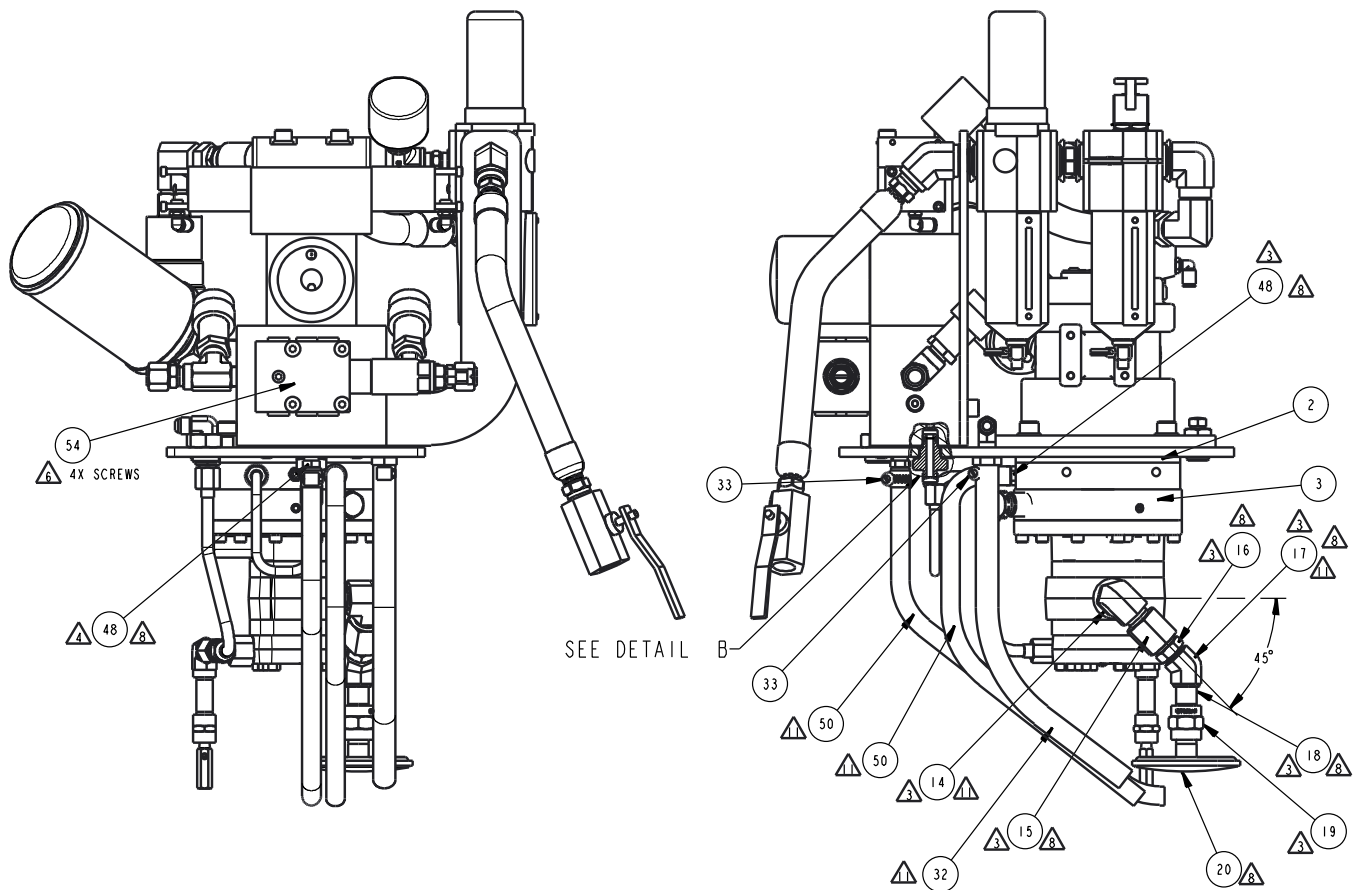


Figure 11B - Pump and Coverplate Assembly (View 2 of 3)

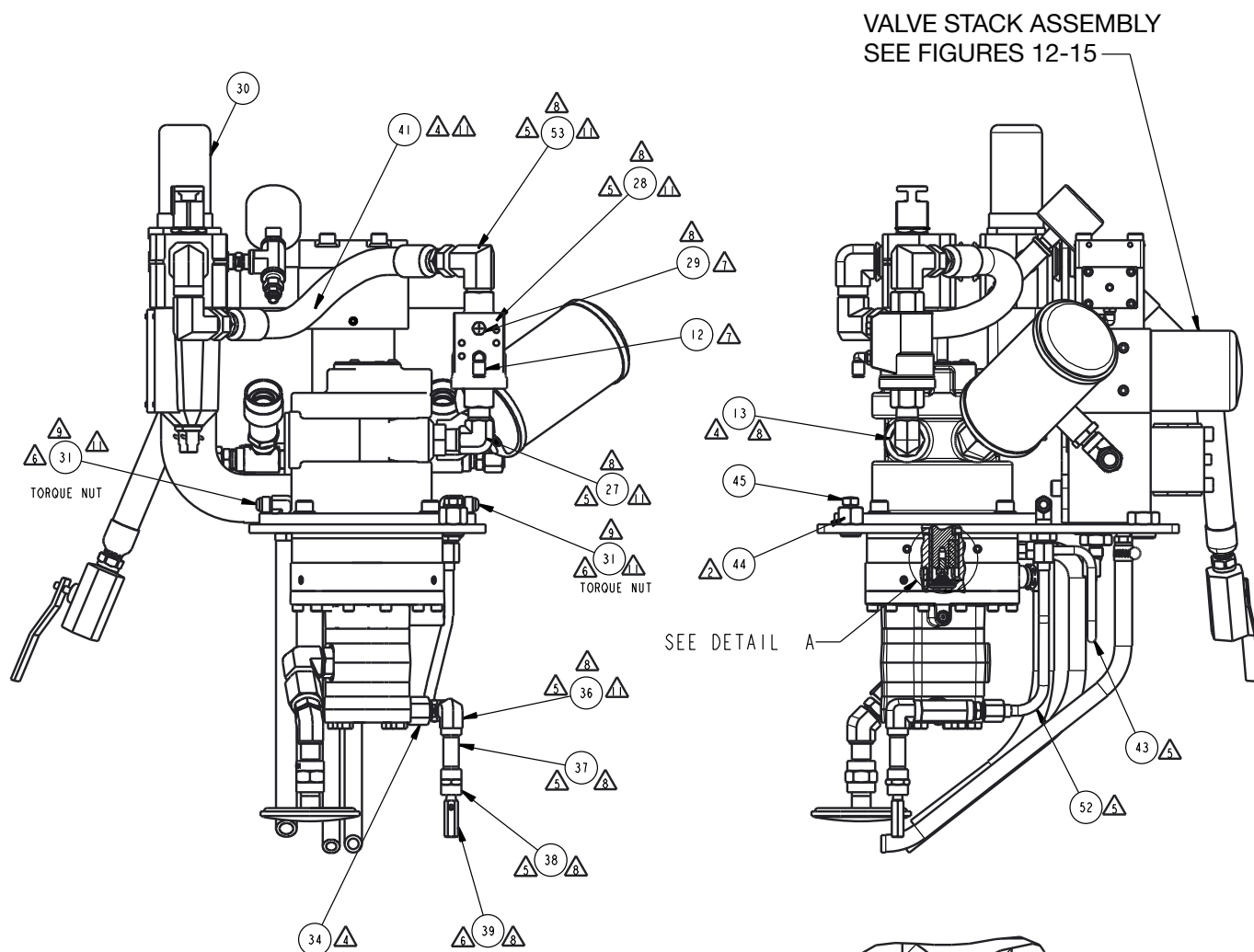


NOTES:

- ▲ TORQUE TO 45-47 FT LBS [61-64Nm].
- ▲ TORQUE TO 30-32 FT LBS [40-43Nm].
- ▲ TORQUE TO 15-18 FT LBS [20-24Nm].
- ▲ APPLY LOCTITE 545 TO THREADS.
- ▲ ORIENT AS SHOWN.

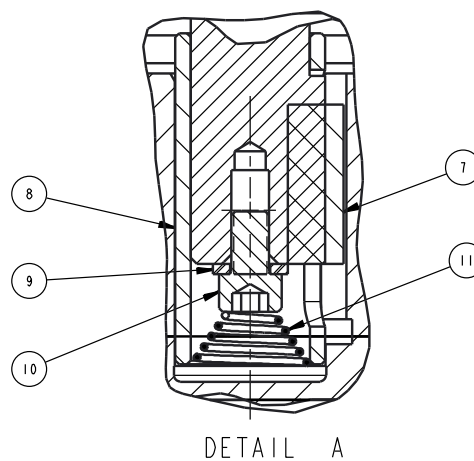
Repair Parts List (Refer to Figure 11B)			
Item	Part Number	Qty.	Description
2	★ DC95511920	1	Gasket, Air Reservoir/Motor Z
3	DD3954900SR	1	Assembly, Pump
14	F100096-48	1	NPT-SAE Adapter
15	DD4676095	1	Fitting, Adapter
16	F100095-49	1	Reducer, Pipe Thread, 1/2 x 3/8
17	CU235096	1	Street Elbow, 0.375-18, 45 Degree
18	F100431-63	1	Nipple, 0.375 NPTF, 1.5 inch
19	CJ649096	1	Fitting
20	DD4627118	1	Filter, Intake
21	DC9271167	1	Gasket, Copper, 0.75 x 1.017 x 0.064
22	DC9173690	1	Connector, Tube/Fitting
23	B1012803	1	O-Ring, (0.38 x 0.50 x 0.06) Poly
24	BSS0368D	1	Ring, Back-up
32	DD4677646	1	Hose, Return Tube, 13"
33	DC9639299	2	Hose Clamp, Steel, 3/8-7/8"
48	F100097-16	2	Fitting, Hose Barb, 0.25 NPT
50	DD2645646	2	Hose, Rubber, 3/8" ID x 16" Lg.
54	DD5146900SR	1	Valve, Overcenter, Torque Adjust
★Item included in PL200K Seal Kit.			

Figure 11C - Pump and Coverplate Assembly (View 3 of 3)



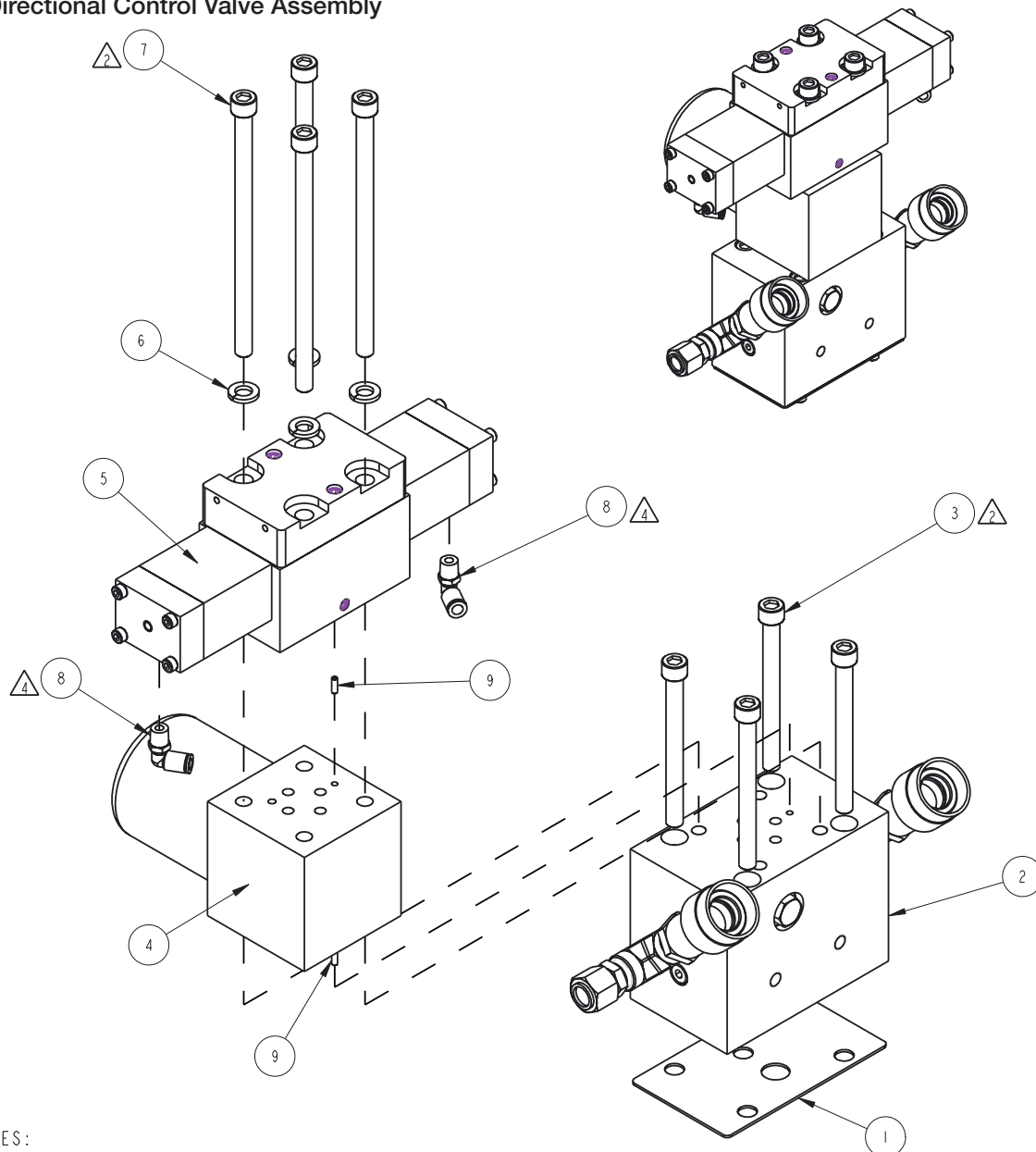
NOTES:

- 2 TORQUE TO 5-7 IN LBS [0.5-0.8Nm].
- 4 TORQUE TO 30-32 FT LBS [40-43Nm].
- 5 TORQUE TO 20-22 FT LBS [27-30Nm].
- 6 TORQUE TO 15-18 FT LBS [20-24Nm].
- 7 TORQUE TO 72-84 IN LBS [8.1-9.5Nm].
- 8 APPLY LOCTITE 545 TO THREADS.
- 9 APPLY LOCTITE 243 THREAD LOCKER TO THREADS.
- 11 ORIENT AS SHOWN.



Repair Parts List (Refer to Figure 11C)			
Item	Part Number	Qty.	Description
7	DC8091251	1	Stepped Key, 8mm/6mm
8	DA4918038	1	Sleeve
9	CAE1060108-1A	1	Flat Washer M6
10	CBE615028-1A	1	SHCS, M6x10mm Lg Zinc Plated
11	BSS5509D-330	1	Spring, Conical
12	F100097-52	1	Connector, 0.125-27 90 Deg. Male
13	F100095-50	1	Reducer, Pipe Thread
27	86243E	1	Elbow, Male, 1/2" NPT Pipe
28	DS10024660E	1	Air Control Valve
29	DC352118	1	Breather Vent
30	DD4475900SR	1	Assembly, Filter-Regulator-Lubricator
31	F100094-172	2	Elbow, 37 Degree Flare Bulkhead, 3/8"
34	F100096-37	1	Pipe Adapter, Female
36	F100095-7	1	Street Elbow, 0.25"
37	F100431-14	1	Nipple, 0.250 NPTF, 2"
38	F100095-40	1	Pipe Connector, 0.125 x 2.50
39	DD4626900SR	1	Relief Valve, 1/8" NPTF
41	DD4782900	1	Hose Assembly, Air motor to FRL
43	DD4713268	1	Tube Assembly, Pressure
44	F100096-9	1	Adapter, Female Pipe, 8-1/4" F50GS
45	69264E	1	Breather, Vent
52	DD4712268	1	Tube Assembly, Gear Pump
53	41763E	1	Swivel, Male, 1/2" NPTF

Figure 12 - Directional Control Valve Assembly



NOTES:

1. THIS DRAWING REPRESENTS THE ASSEMBLY, PUMP VALVE SECTION. SHOWN ON (SHT 1 OF 2) PART NUMBER DD4399900.

2 TORQUE TO 20-25 FT LBS [27-34 Nm].

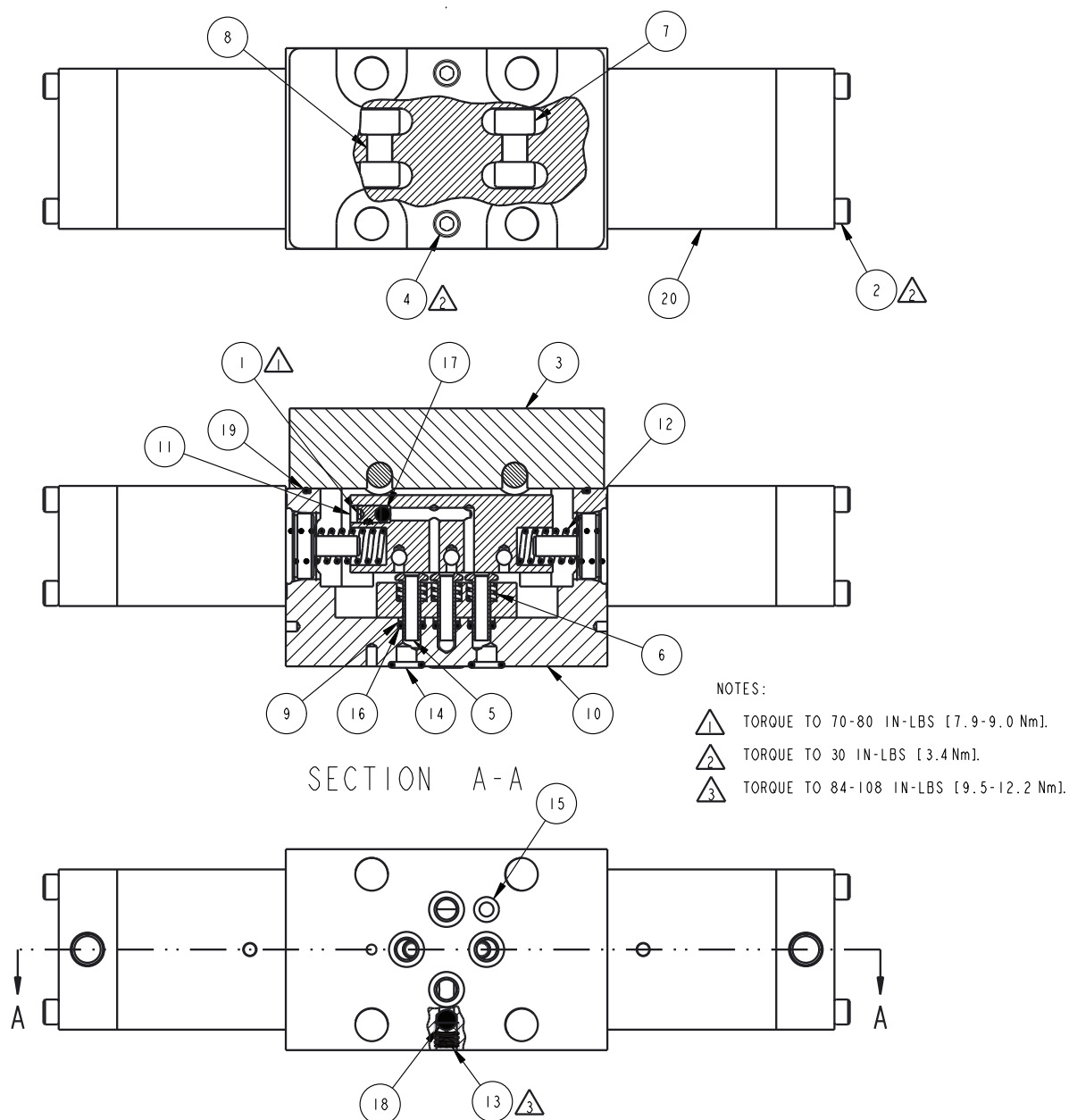
3 APPLY LOCTITE 545 TO THREADS.

4 TORQUE TO 70-90 IN-LBS [7.9-10.2 Nm].

Repair Parts List (Refer to Figure 12)

Item	Part Number	Qty.	Description	Item	Part Number	Qty.	Description
01	DD4695037	1	Gasket, Valve	06	C432108	4	Lock Washer
02	(See Fig.14)	1	Manifold 2 Assembly	07	42366E	4	SHCS, 3/8-16 x 6.5
03	B1091028X	4	Screw, SHCS 3/8-16 x 4" Zinc Plt	08	F100097-52	2	Connector, 0.125-27 90 Deg.
04	(See Fig. 15)	1	Filter Block, With Relief Assembly	09	B1049057	2	Spring Pin
05	(See Fig. 13)	1	Solenoid, Air 4W/3P				

Figure 13 - Air Solenoid Valve Assembly



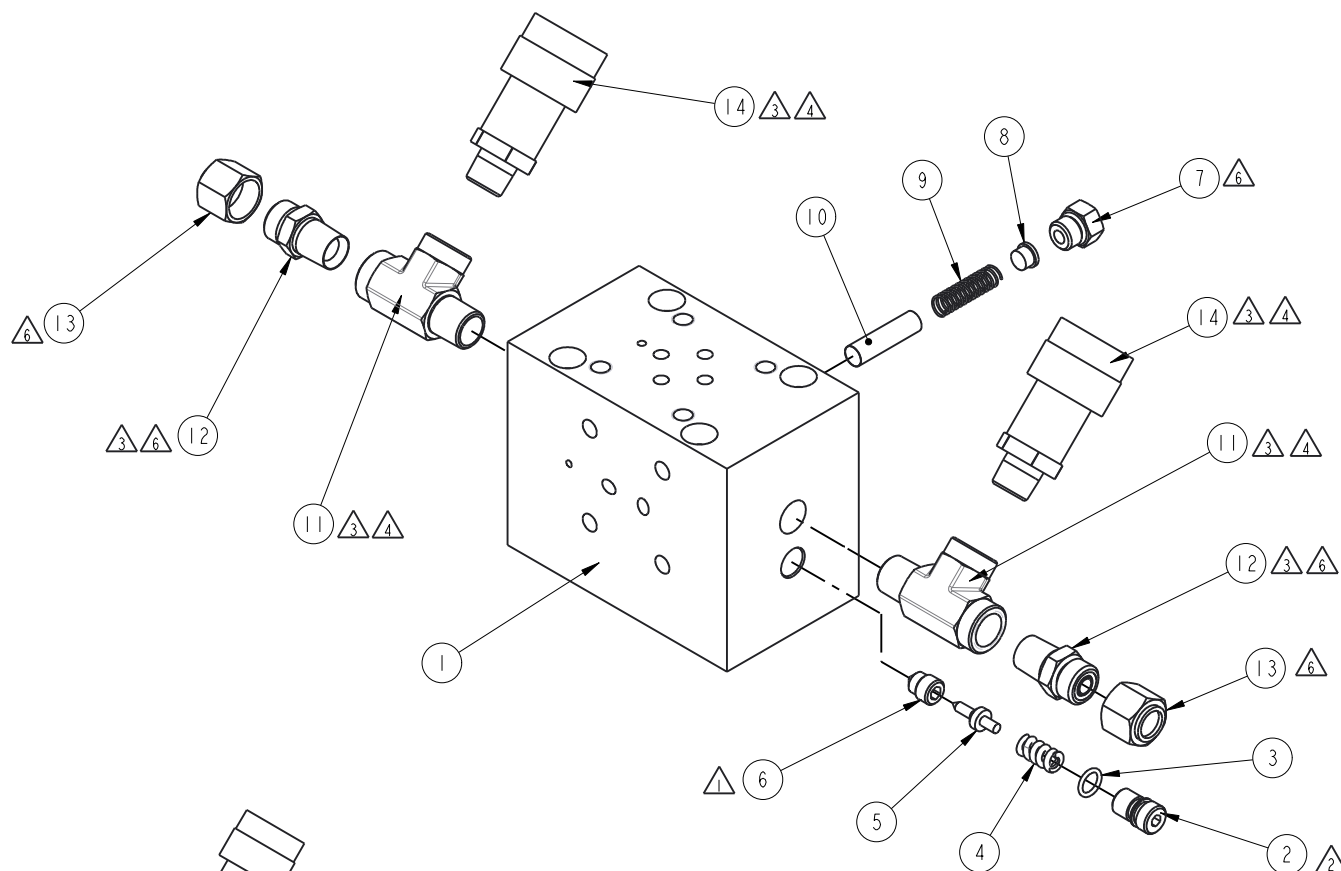
Repair Parts List (Refer to Figure 13)

Item	Part Number	Qty.	Description	Item	Part Number	Qty.	Description
01	† 40254E	1	Set Screw, 1/4-28 x 1/4 Cup	11	† 68709E	1	Slider, Tandem Center
02	† 41959E	8	SHCS # 10-24 x 3.25"	12	† 68711E	2	Spring
03	† 46272E	1	Valve Top Plate, Machined	13	† 94418E	1	Set Screw, 5/16-18 x 1/4 Cup
04	† 68264E	2	SHCS #10-32 x 1" Long, Plated	14	★† 56020112E	4	O-Ring, 5/16 x 7/16 URE
05	† 68383E	3	Seal, Metal	15	★† B1003503	1	O-Ring, 0.19 x 0.31 x 0.06" Buna
06	† 68384E	3	Spring	16	★† B1004503	3	O-Ring
07	† 68385E	4	Roller Bearing, 5/16 x 1/2 x 5/16"	17	† B1005016	1	Ball, 3/16" Diameter
08	† 68390E	2	Pin, Bearing	18	† B1007016	1	Ball, 1/4" Diameter
09	★† 68391E	3	Back-up Washer	19	★† B1246503	1	O-Ring
10	† 68708E	1	Valve Body	20	† DD2956900SR	2	Air Cylinder Assembly

† Item included in DD4401900SR Air Solenoid Service Assembly.

★ Item included in PL200K Seal Kit.

Figure 14 - Manifold 2 Assembly



NOTES:

- ▲ TORQUE TO 15-17 FT-LBS (20-23 Nm)
- ▲ SCREW IN TO A RELIEF VALVE PRESSURE OF 4,500-5,000 PSI (310-344 Bar).
- ▲ APPLY TEFLON TAPE TO THREADS, LEAVING 1-2 FIRST THREADS EXPOSED.
- ▲ TORQUE TO 44-53 FT-LBS (60-72 Nm). ORIENT AS SHOWN
- ▲ TORQUE TO 16-18 FT-LBS (21-24 Nm)
- ▲ TORQUE TO 25-27.5 FT-LBS (33.8-37.3 Nm).

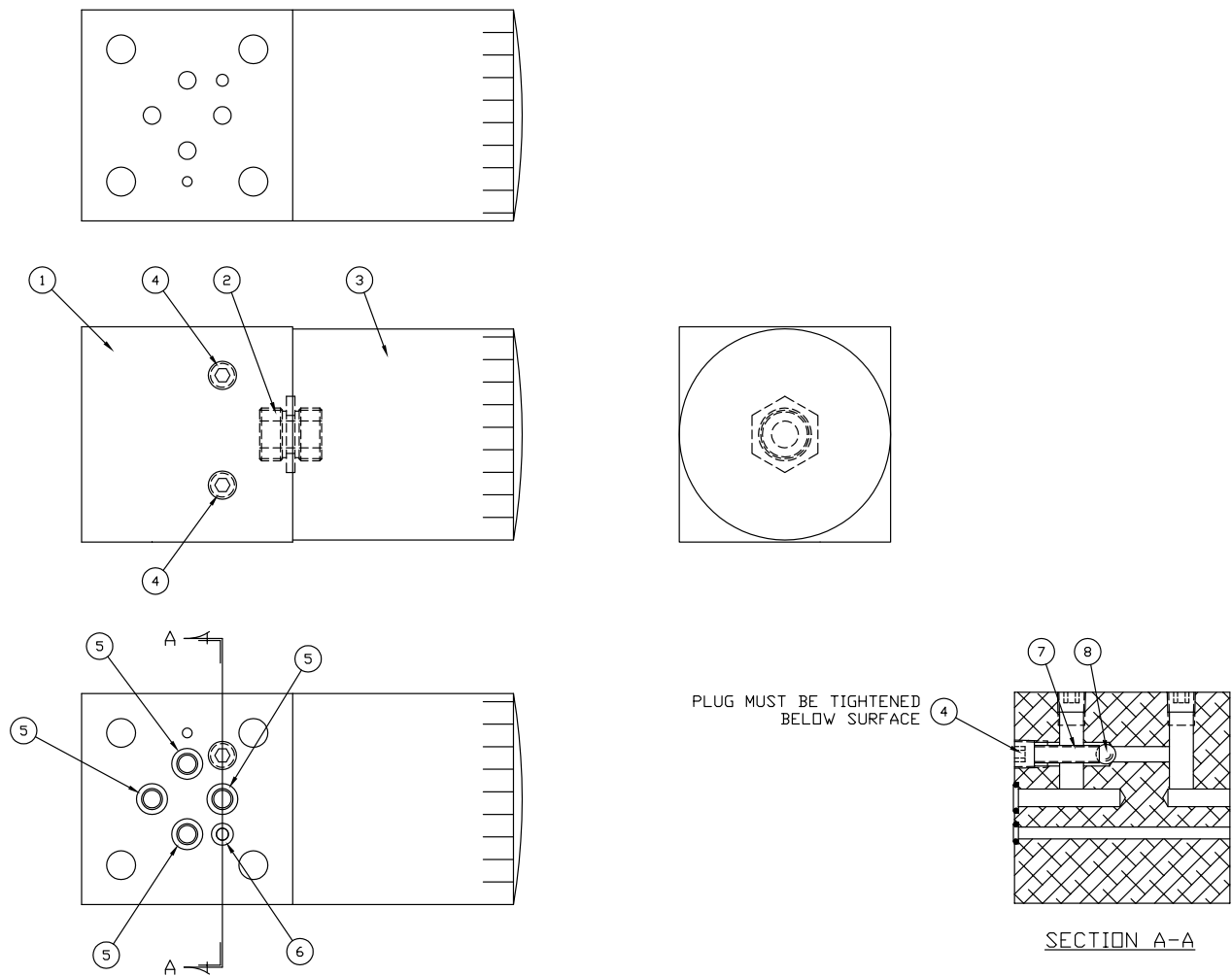
Repair Parts List (Refer to Figure 14)

Item	Part Number	Qty.	Description	Item	Part Number	Qty.	Description
01	÷ DD4589840	1	Manifold, Hyd Over Center Valve	08	÷ 69517E	1	Screen Cap
02	÷ 43274E	1	Screw, Adjusting	09	÷ 43423E	1	Spring, OC Valve Spring
03	⊕ B1007503	1	O-Ring -012, 70	10	÷ 69518E	1	Screen, Over Center Valve
04	⊕ 66085E	1	Spring, Relief Valve	11	÷ F100095-37	2	Street Tee, 0.375-18 NPTF
05	⊕ 68003E	1	Cone, External Relief	12	÷ 45666E	2	O-Ring, Fitting 3/8 NPTF
06	⊕ 68004E	1	Seat, External Relief	13	÷ 45664E	2	O-Ring Face Seal Plug
07	DD5141900SR	1	SAE Plug Assembly	14	÷ DC1389900	2	Female Coupler

⊕ Item included in 55057K Relief Valve Replacement Kit.

÷ Item included in DD4686900SR Manifold2 Service Assembly.

Figure 15 - Filter Block Assembly

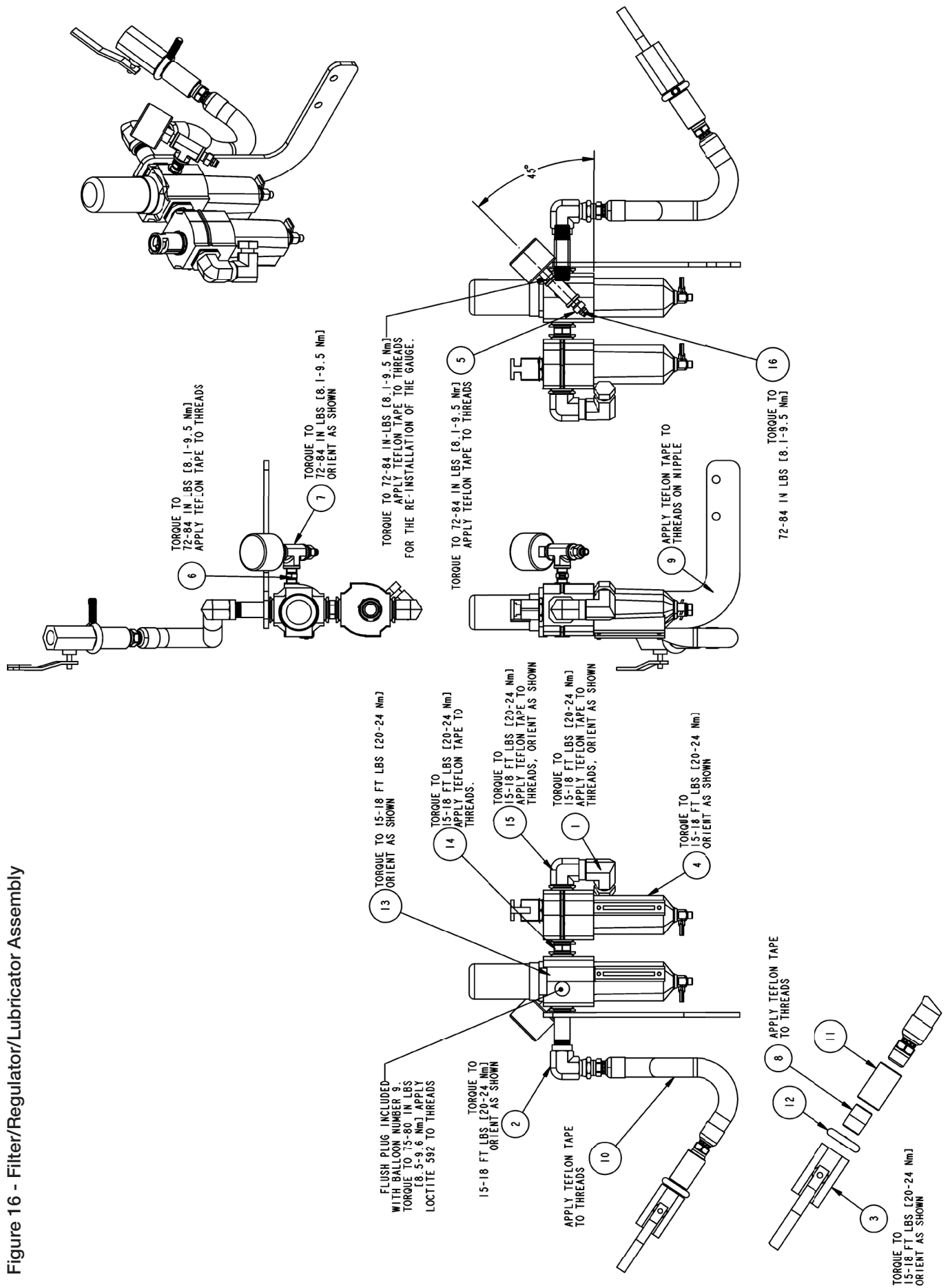


Repair Parts List (Refer to Figure 15)

Item	Part Number	Qty.	Description
1	* 46569E	1	Filter Block
2	* 69670E	1	Oil Filter Power Pump
3	* 69144E	1	Adapter Filter
4	* 93950E	3	1/4" Soc Pipe Plug
5	★ * 56020112E	4	O-Ring 5/16 x 7/16" URE
6	* 5602008E	1	O-Ring 3/16 x 5/16"
7	* 46572E	1	Spring, Compression
8	* B1007016	1	Ball, 1/4" Dia.

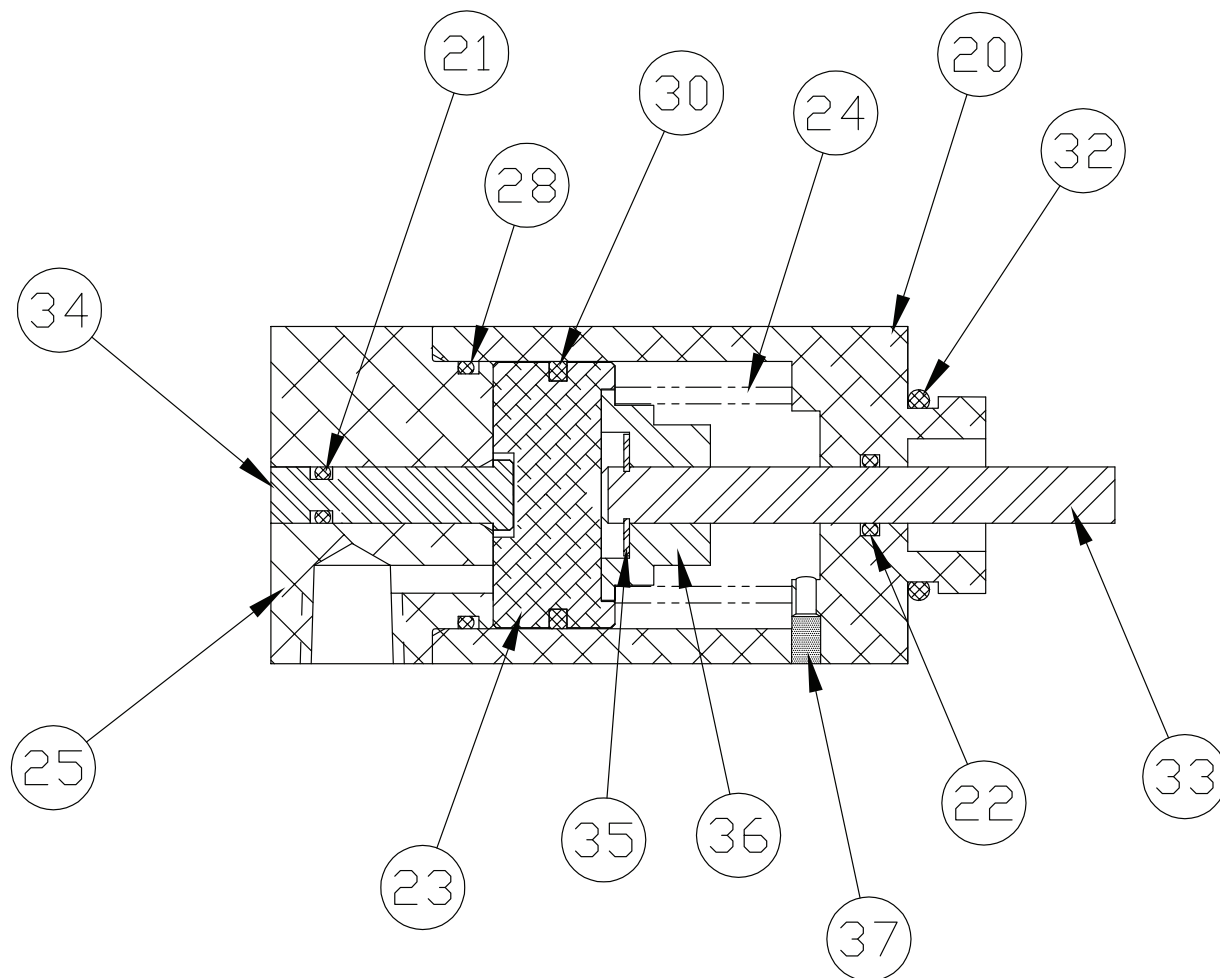
* Item included in 46568SR Filter Block Kit.
 ★ Item included in PL200K Seal Kit.

Figure 16 - Filter/Regulator/Lubricator Assembly



Repair Parts List (Refer to Figure 16)			
Item	Part Number	Qty.	Description
1	* 41763E	1	Swivel Male 1/2 NPTF
2	* 41768E	1	Swivel Female 1/2 NPT
3	* 85851E	1	Air Valve
4	* 86242E	1	Air Lubricator
5	* CH943096	1	Reducer
6	* CJ647096	1	0.250 NPTF Nipple
7	* CK907096	1	0.25 NPT Tee
8	* DC8097095	1	Fitting 1/2 NPT Nipple Zinc
9	* DD3958338	1	Assembly, Bracket FRL 200T Pow'r Lock
10	* DD4782900	1	Hose Assembly, Air Motor to FRL
11	* DD6225095	1	Fitting, Female Coupling, 1/2 NPT
12	* DD6227242	1	Eyebolt, 3/8 - 16 x 1.25 LG
13	* DS1018118	1	Filter/Regulator
14	* F100095-43	1	Pipe Nipple - 0.5 x 1.89
15	* F100095-45	1	Fitting, Street Elbow 1/2 NPT
16	* F100097-33	1	Fitting, 0.125 NPT Male, 0.25 Tube
* Item included in DD4475900SR Filter Assembly. Note: Filter/Regulator and air lubricator are manufactured by Norgren. Contact Norgren for filter elements and replacement parts.			

Figure 17 - Air Cylinder Assembly



Repair Parts List (Refer to Figure 17)

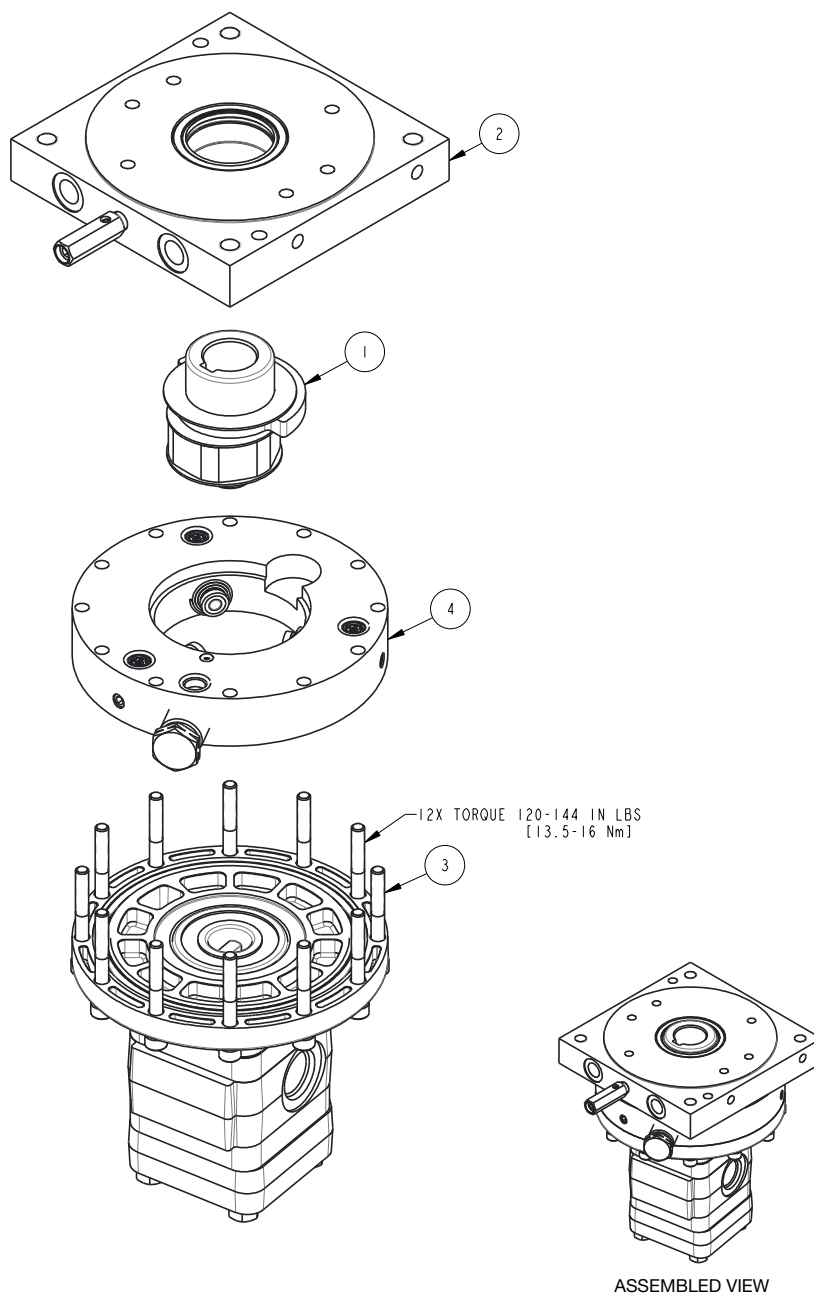
Item	Part Number	Qty.	Description
20	+ DD2756190	1	Body Air Cylinder
21	★+ B1001503	1	O-Ring, 0.12 x 0.25 x 0.06"
22	★+ B1005503	1	O-Ring
23	+ DD2758051	1	Air Cylinder Piston
24	+ 42749E	1	Spring, Air Cylinder
25	+ 41956E	1	End Cap
28	★+ B1229503	1	O-Ring
30	★+ DD2957141	1	Ring, Glide, 1-3/16"
32	★+ B1910503	1	O-Rng
33	+ 42746E	1	Push Pin Air Valve
34	+ 41958E	1	Override Pin
35	+ 42750E	1	E-Ring 1/4" Shaft
36	+ 42748E	1	Spring Plate Air Valve
37	+ DA4390118	1	Filter

+ Item included in DD2956900SR Air Cylinder Service Assembly.

★ Item included in PL200K Seal Kit.

Figure 18 - Pump Element Assembly, Duplex

BYPASS PRESSURE CRACKING PSI (BAR)	RELIEF PRESSURE NOMINAL PSI (BAR)	1ST STAGE FLOW PER REVOLUTION IN ³ (CC)	2ND STAGE FLOW PER REVOLUTION IN ³ (CC)	WEIGHT LBS (Kg)	BYPASS CAP HEIGHT INCH (mm)
500 (35)	10,000 (700)	.252 (4.13)	0.035 (0.57)	16 (7.3)	0.99 (225.1)

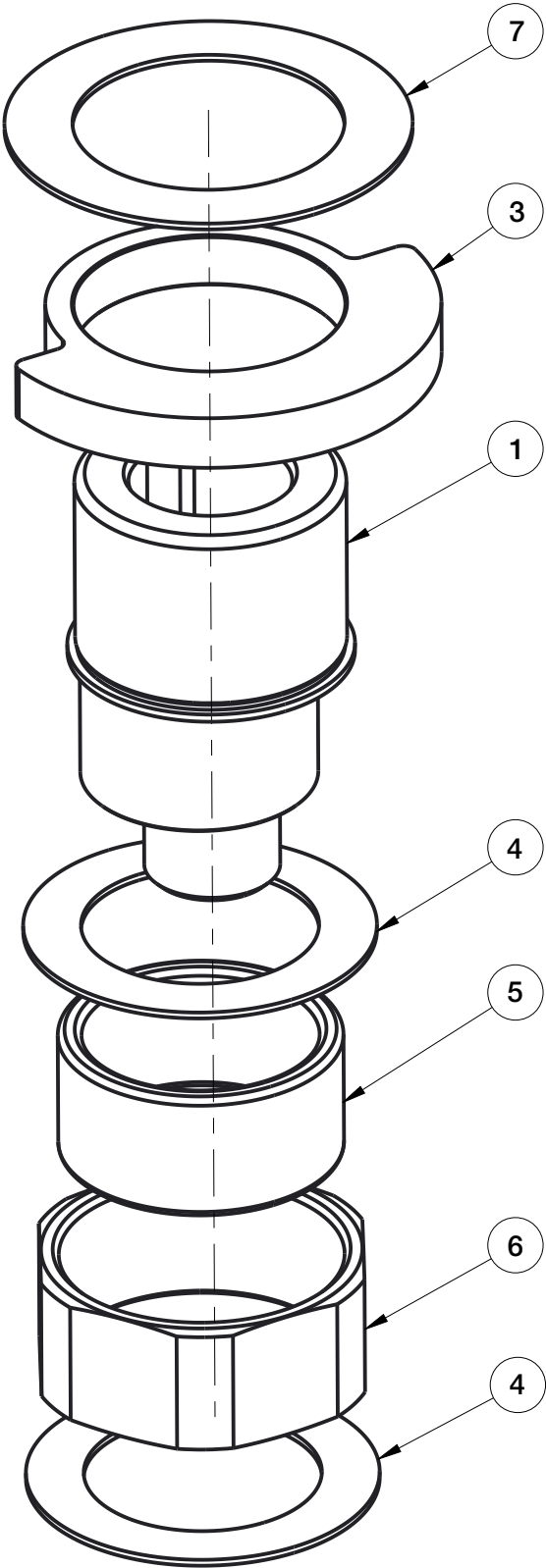


Repair Parts List (Refer to Figure 18)

Item	Part Number	Qty.	Description
1	* DC9215900SR	1	Pump Eccentric (See Fig. 19A and 19B)
2	* DC9279900SR	1	Pump Top Plate Components (See Fig. 20A and 20B)
3	* DD4625900SR	1	Gear Pump Assembly, Duplex (See Fig. 21)
4	* DD4807900SR	1	Piston Ring Assembly 3P, 500 psi (See Fig. 22)

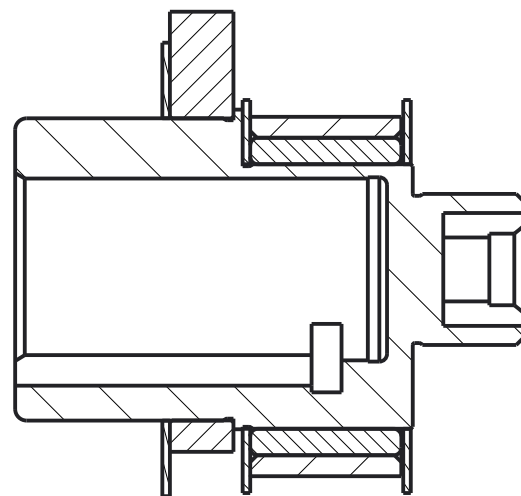
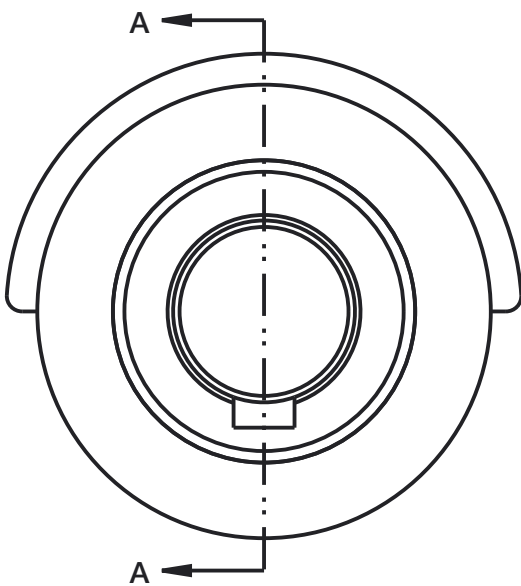
* Item included in DD3954900SR Main Pump Element Service Assembly.

Figure 19A - Pump Eccentric (View 1 of 2)



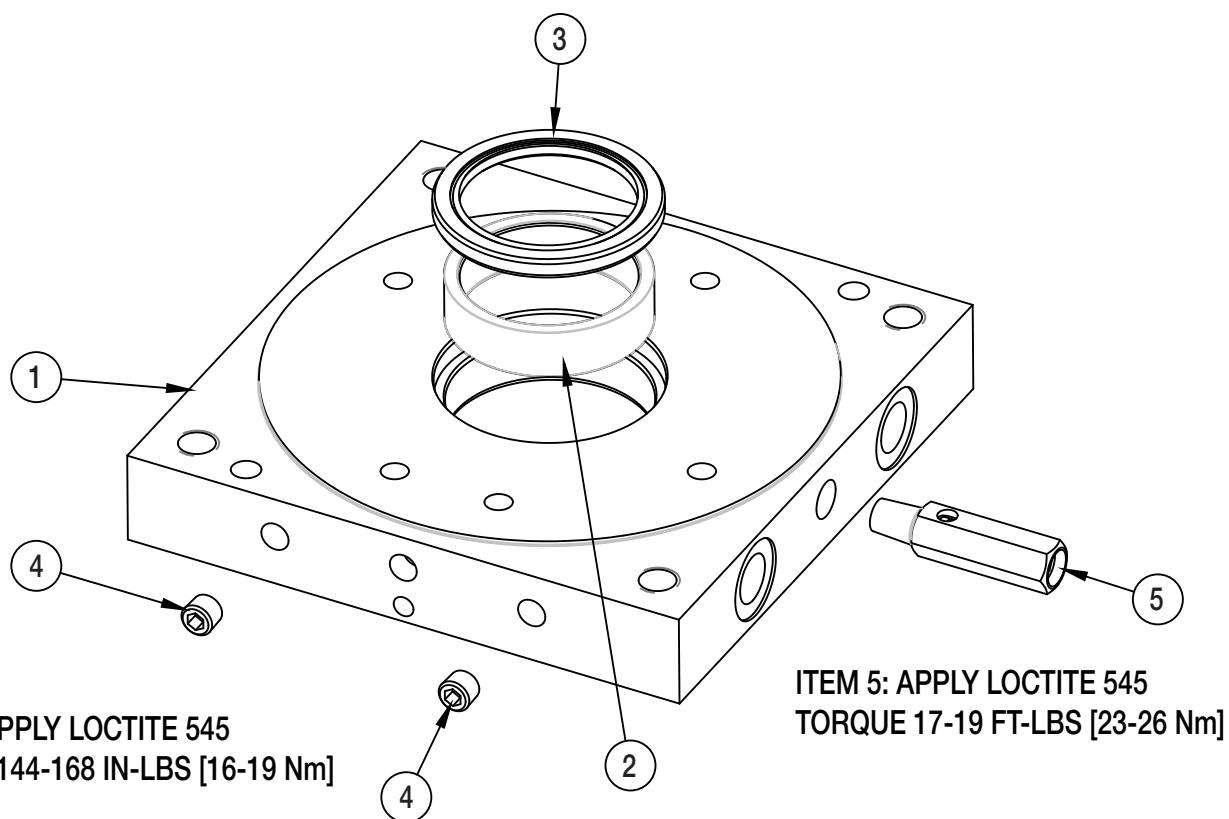
Repair Parts List (Refer to Figure 19A)			
Item	Part Number	Qty.	Description
01	❖ DC9214537	1	Eccentric
03	❖ DC9023101	1	Balance Plate
04	❖ BSS4725D	2	Ring, 35 x 52 x 1
05	❖ DC4107155	1	Needle Bearing, 35 x 42 x 20
06	❖ DC4328350	1	Hex Cam
07	❖ DD1277108	1	Washer, Locating, 40 x 60 x 1 mm
❖ Item included in DC921500SR Eccentric Assembly.			

Figure 19B - Pump Eccentric (View 2 of 2)



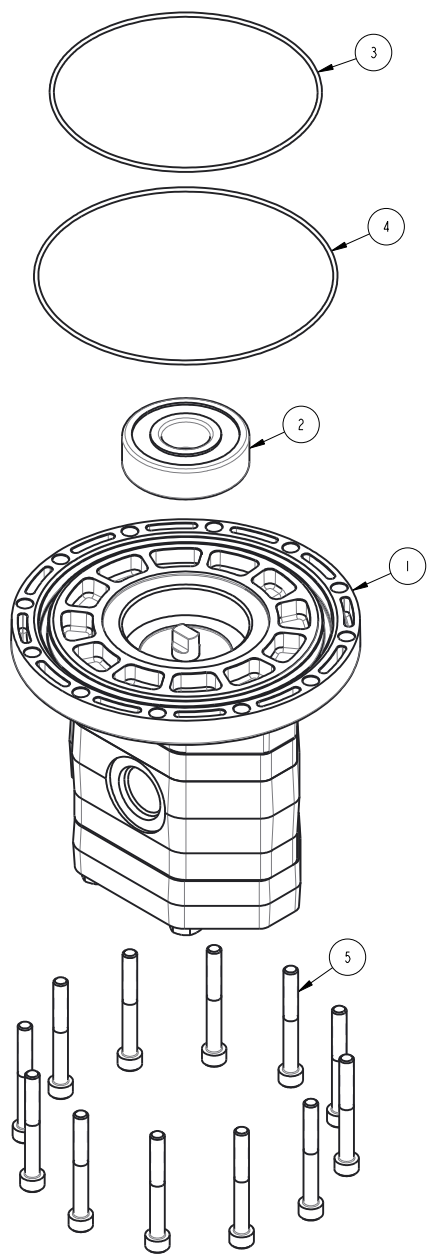
SECTION A-A

Figure 20 - Pump Top Plate Components



Repair Parts List (Refer to Figure 20)			
Item	Part Number	Qty.	Description
1	► DC8105101	1	Top Plate (piston, induction motor)
2	► DC9026155	1	Needle Bearing, 40 x 47 x 12"
3	► DC9027776	1	Oil Lip Seal, 40 x 52 x 5"
4	► A1006245	2	Flush Plug, 1/16" with Sealant
5	► DA5999900SR	1	Relief Valve, 1/8" NPT
► Item included in DC9279900SR Top Plate Assembly.			

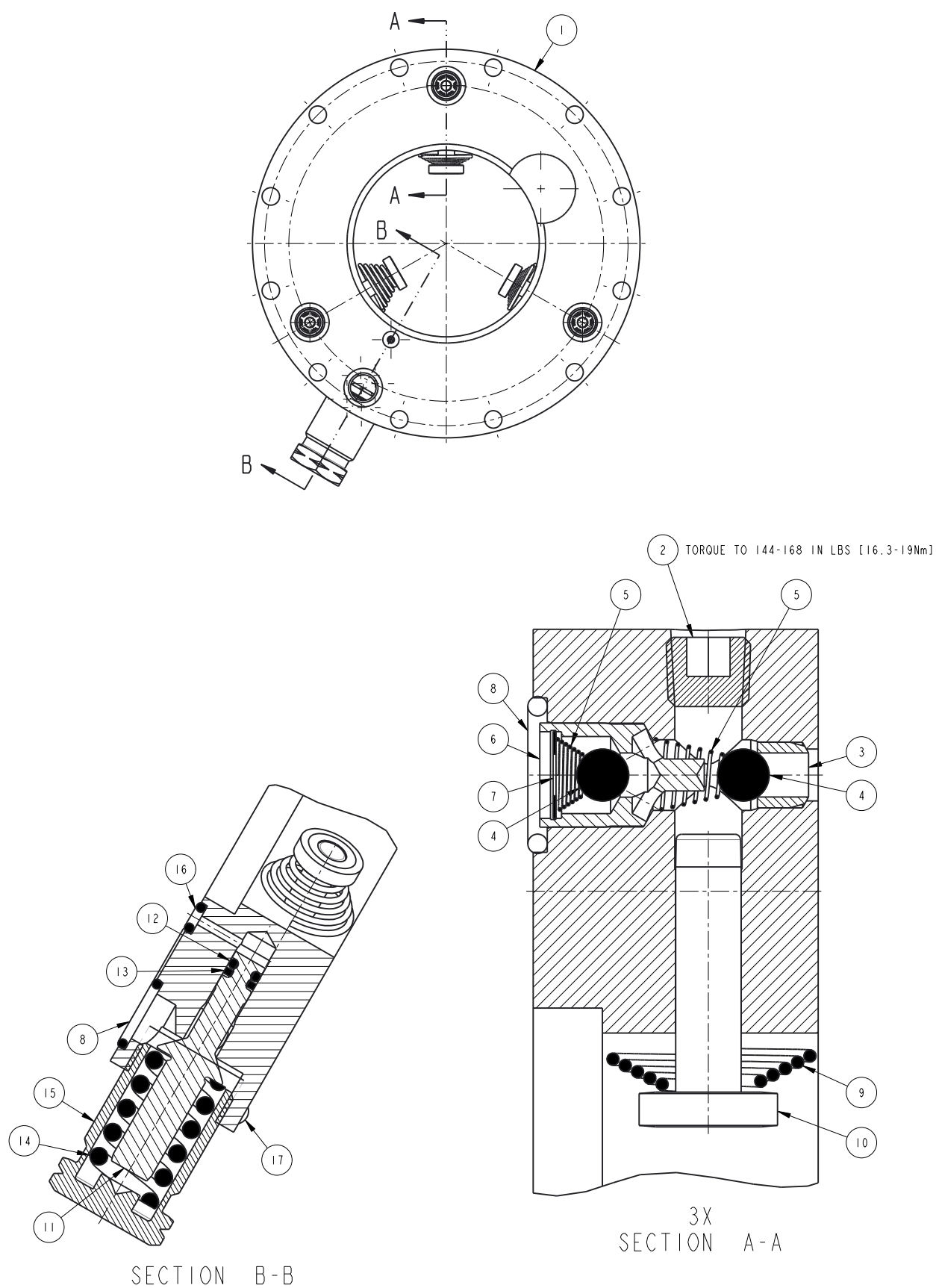
Figure 21 - Duplex Gear Pump Assembly



Repair Parts List (Refer to Figure 21)

Item	Part Number	Qty.	Description
1	✳ DD3956221	1	Assembly, Duplex Gear Pump
2	✳ DC9219155	1	Ball Bearing, 20 x 52 x 15
3	†★✳ B1400503	1	O-Ring, -046
4	†★✳ B1402503	1	O-Ring, -048
5	✳ CCA633028-1A	12	SHCS, M6 x 1.0 x 50
★ Item included in PL200K Seal Kit. ✳ Item included in DD4625900SR Gear Pump Block Service Assembly. † Item included in ZRK Z-Class MPE Seal Kit.			

Figure 22 - Piston Ring Assembly



Repair Parts List (Refer to Figure 22)			
Item	Part Number	Qty.	Description
1	✳ DC9221101	1	Piston Ring 3P MPE REF 9014
2	✳ A1006245	3	Flush Plug, 1/16" with Sealant
3	* ✳ BSS5358D	3	Piston Seat, Lower
4	* ✳ B1005016	6	BALL, 3/16"
5	* ✳ BSS5809D	6	Spring, Piston Check
6	* ✳ BSS5357D	3	Seat, Piston Upper
7	* ✳ BSS5356D	3	Retaining Ring
8	* † ✳ B1013203	4	O-Ring, Viton
9	✳ BSS5509D	3	Spring, Conical
10	✳ DC9244920	3	Piston Assembly, MPE
11	✳ DC9292051	1	Piston Bypass
12	† ✳ B1006803	1	O-Ring
13	† ✳ B1006564	1	Washer, Back-Up
14	✳ DC394110	1	Spring, Bypass
15	✳ DC8374020	1	End Cap, Bypass
16	† ✳ B1005203	1	O-Ring, Viton
17	† ✳ DC9293016	2	Ball, Nylon 3/16"
★ Item included in PL200K Seal Kit. ✳ Item included in DD4807900SR Piston Ring Service Assembly. † Item included in ZRK Z-Class MPE Seal Kit. * Item included in ZRKS Z-Class MPE Check Valve Kit.			

NOTES:

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