

Pow'r Riser Lifting Jacks PR Series - 200 Ton Air Models

L54724 Rev. J 06/24

For Date Codes Beginning with the Letter "B" thru "C"

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.

Note: This illustration is for reference only.
The appearance of your unit may differ from
the unit shown.

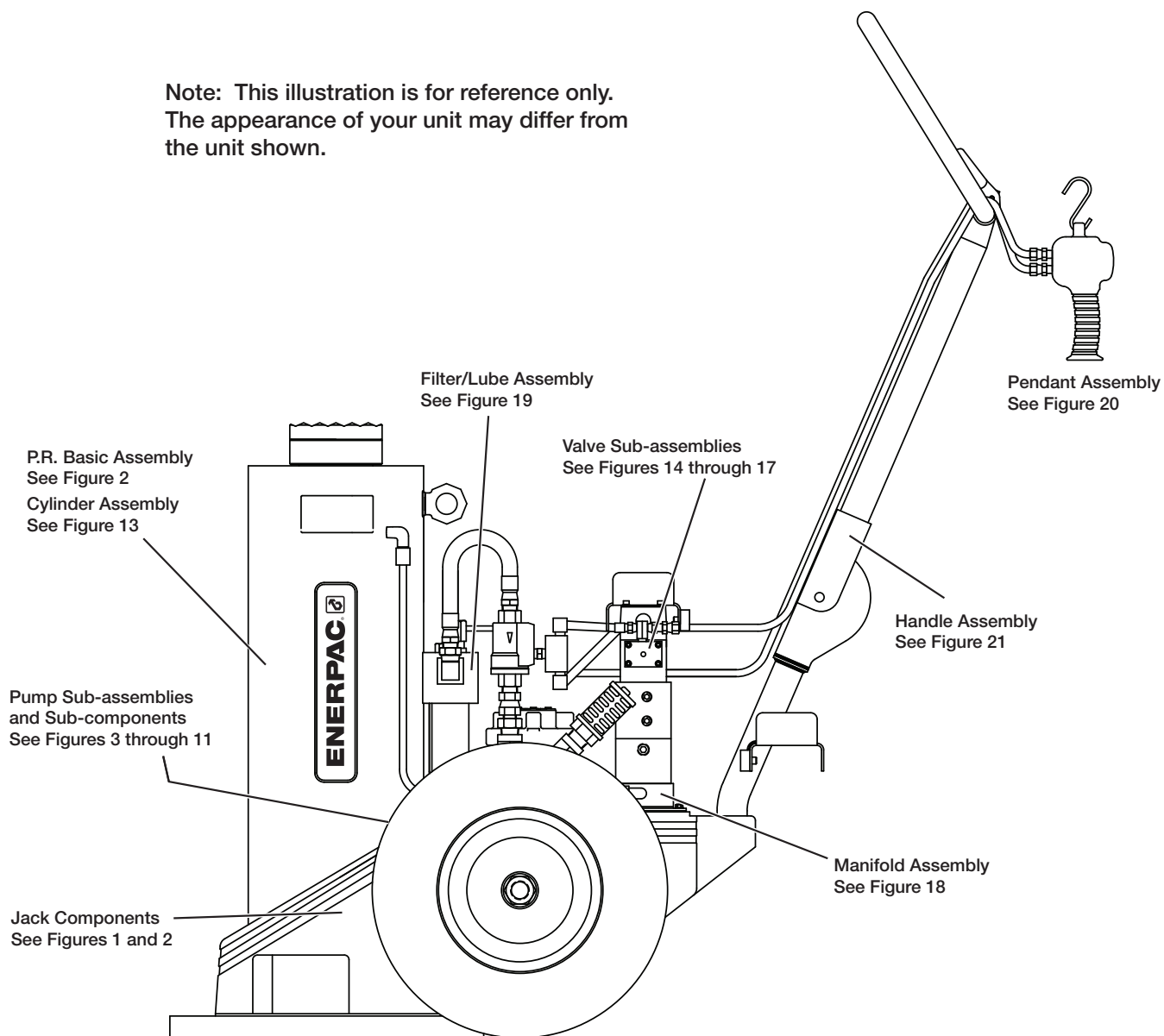
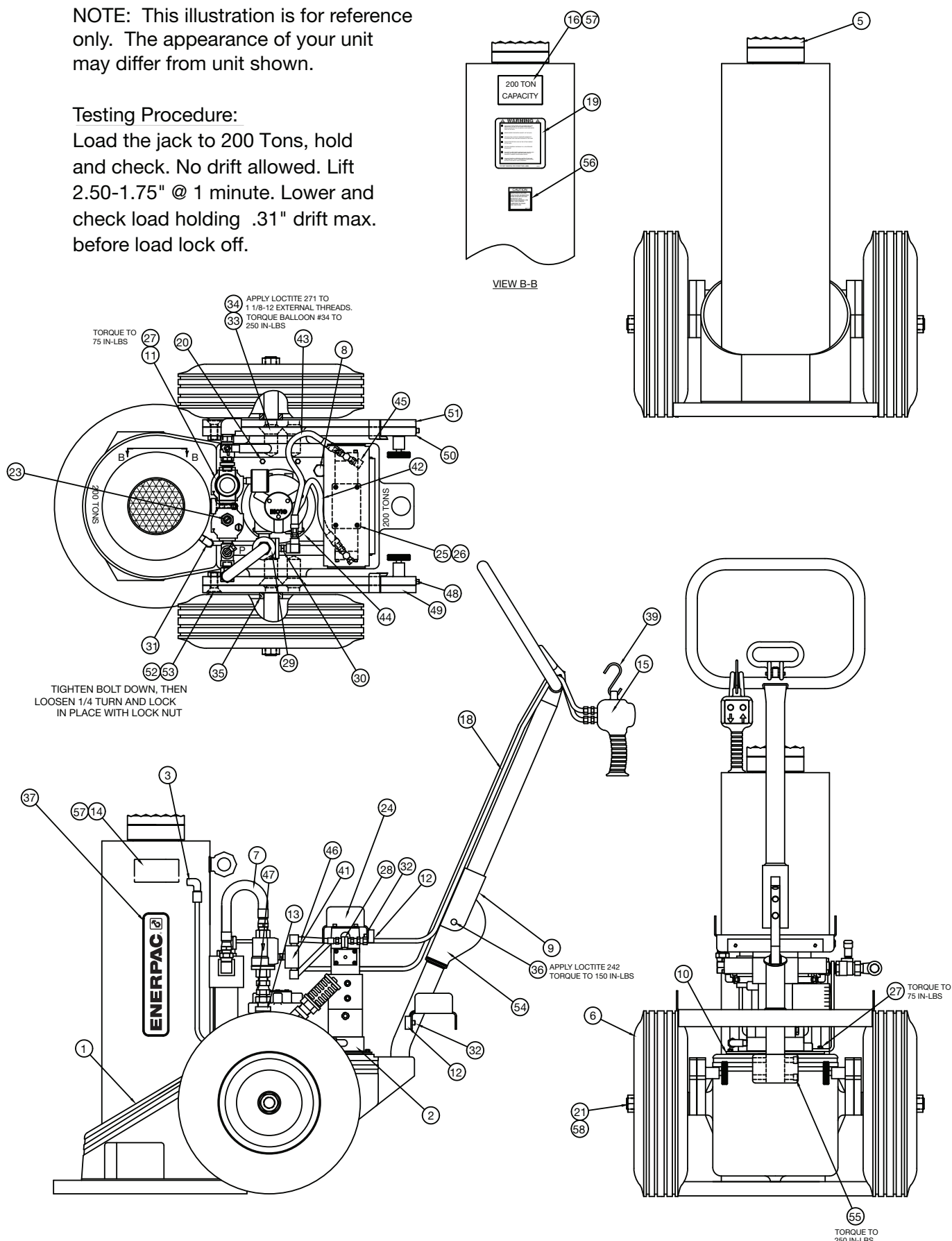


Figure 1 - Main Assembly

NOTE: This illustration is for reference only. The appearance of your unit may differ from unit shown.

Testing Procedure:

Load the jack to 200 Tons, hold and check. No drift allowed. Lift 2.50-1.75" @ 1 minute. Lower and check load holding .31" drift max. before load lock off.



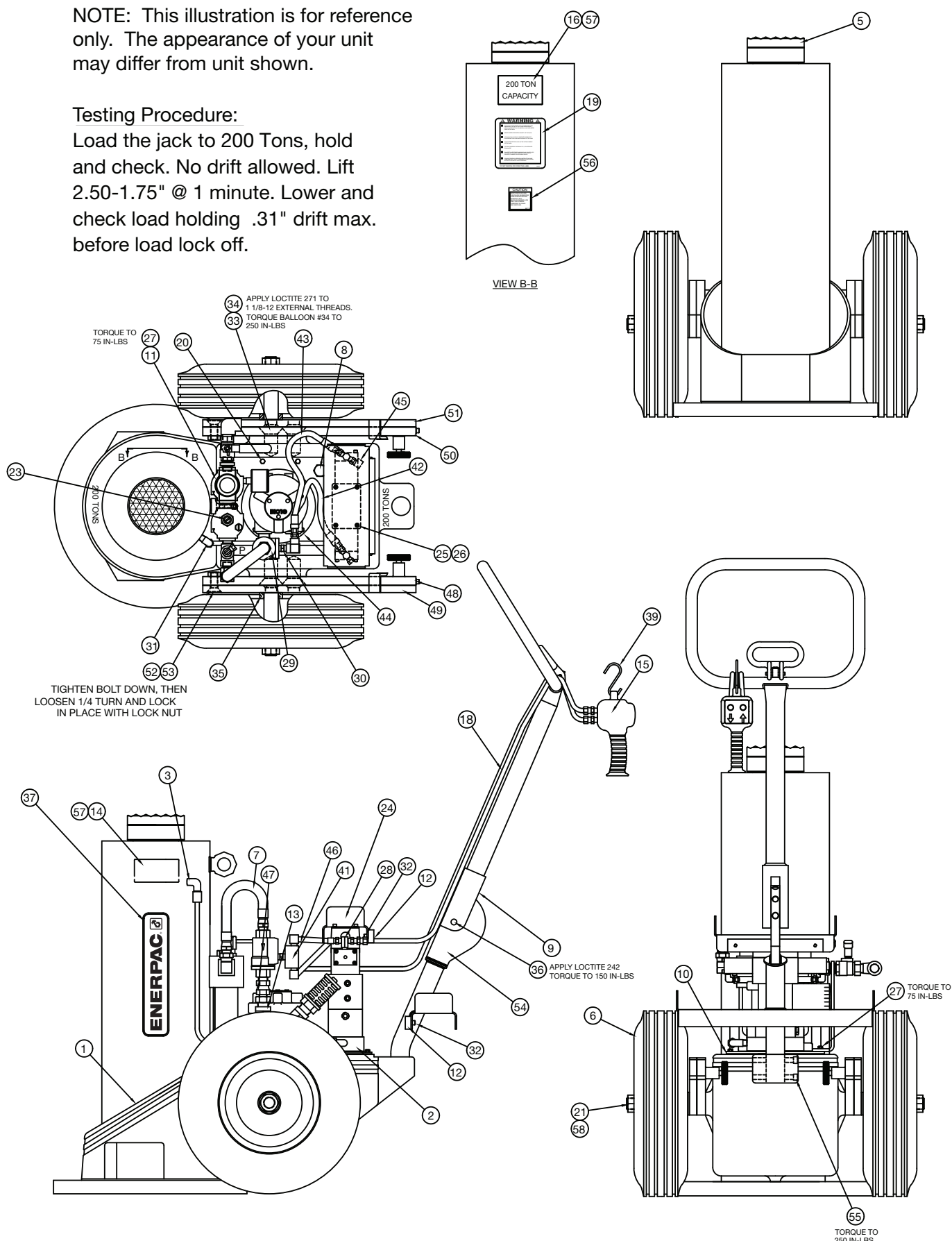
Repair Parts List (Refer to Figure 1 on page 2)				
Item	Model		Qty.	Description
	PRASA20016L	PRASA20027L		
1	(See Fig. 2)	(See Fig. 2)	1	PR Basic Asm
2	(See Fig. 3A & 3B)	(See Fig. 3A & 3B)	1	Subassy, Pump and Air Motor
3	40085E	40085E	1	Male Elbow 3/8-3/8"
5	42208E	42208E	1	Load Cap PR Long Stm
6	41944E	41944E	2	Tire/Rim Assembly
7	41779E	41779E	1	Air Tubing
8	88743E	88743E	1	Plug Hex O-Ring
9	(See Fig. 21)	(See Fig. 21)	1	Handle Assembly
10	85469E	85469E	1	Gasket
11	(See Fig. 19)	(See Fig. 19)	1	Filter Lube/Regulator Asm
12	43314E	- - -	2	Spacer, Adapter Lock Ring
	- - -	43314E	3	Spacer, Adapter Lock Ring
13	86243E	86243E	1	Male Elbow
14	43653E	43372E	1	Decal, Blank
15	(See Fig. 20)	(See Fig. 20)	1	Pendant, Air
16	43373E	43373E	1	Label 200 Ton Capacity
18	41965E	41965E	1	Hose
19	89292E	89292E	1	Decal, Warning PWR R
	DD9743026	DD9743026	1	Decal, Warning PWR R, starting with Date Code "C"
20	B2005046E	B2005046E	12	Screw 1/4-20 x 3/4" St
21	46053E	46053E	2	1"-8 Hex Lock Nut
23	69264E	69264E	1	Breather Vent
24	- - -	42505E	1	Hanger, 10" Lock Ring
25	- - -	42552E	4	SHCS, #10-32 x 1/2" SS
26	- - -	93940E	4	Lockwasher, #10
27	B2007046E	B2007046E	2	Washer Hd. Screw 1/4-20 x 3/4"
28	42968E	42968E	2	Swivel Tee, 1/8"
29	DS1024660	DS1024660	1	Control Valve, Air
30	45970E	45970E	1	Nipple, Male 1/4" x 1/8"
31	43658E	43620E	1	Tube
32	93580E	- - -	4	SHCS, 1/4-20 x 3/8"
	- - -	93580E	6	SHCS, 1/4-20 x 3/8"
Note: Refer to page 5 for Figure 1, items 33 through 58				

Figure 1 - Main Assembly (Continued)

NOTE: This illustration is for reference only. The appearance of your unit may differ from unit shown.

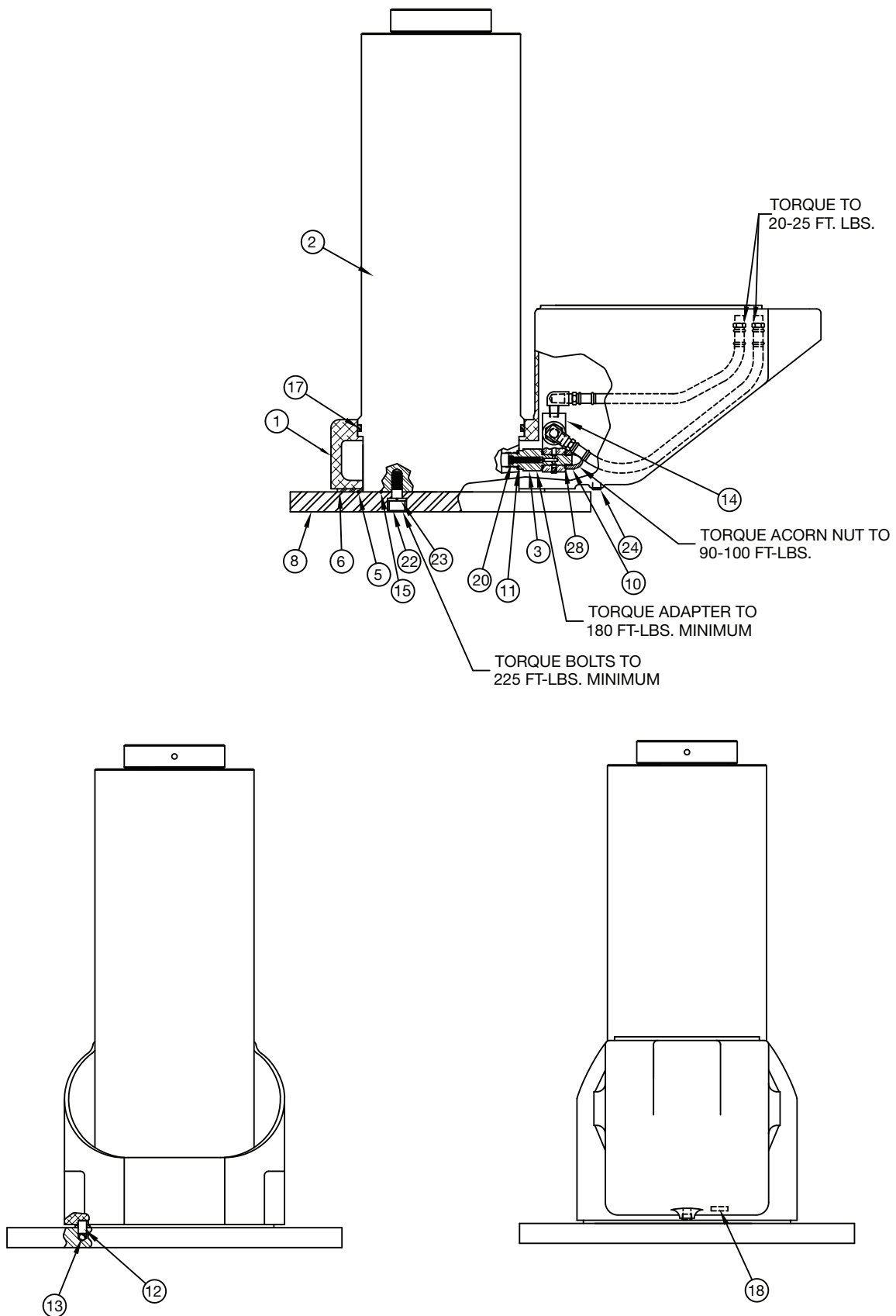
Testing Procedure:

Load the jack to 200 Tons, hold and check. No drift allowed. Lift 2.50-1.75" @ 1 minute. Lower and check load holding .31" drift max. before load lock off.



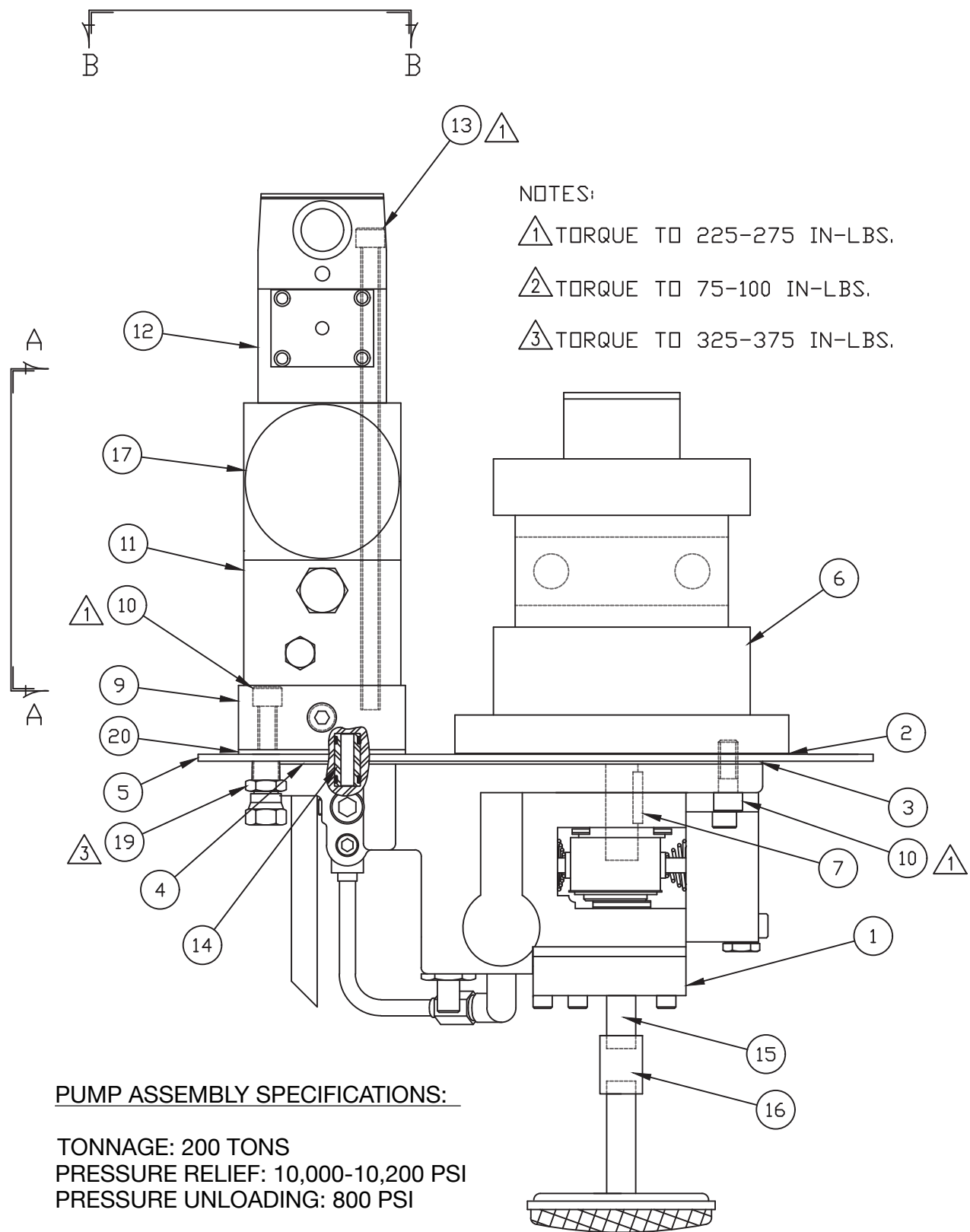
Repair Parts List (Continued - Refer to Figure 1 on page 4)				
Item	Model		Qty.	Description
	PRASA20016L	PRASA20027L		
33	43326E	43326E	4	Threaded Insert
34	43328E	43328E	4	FHCS 3/4-10 x 2.00"
35	43331E	43331E	2	Spacer, PR Axle
36	41983E	41983E	1	Screw Shoulder
37	89967E	89967E	1	Enerpac Logo - Large
39	42367E	42367E	1	S-Hook, Pendant
41	DQ2201660SR	DQ2201660SR	1	Shuttle Valve
42	43099E	43099E	1	Hose, 3/16" 10.5" Lg
43	43098E	43098E	1	Hose, 3/16" 12.25" Lg
44	42667E	42667E	2	Reducer, 1/4" - 1/8"
45	42966E	42966E	1	Street Elbow, 1/8"
46	18970E	18970E	2	Street Elbow, 1/4", 90 Deg.
47	42967E	42967E	1	Swivel, Straight, 1/2"
48	43342E	43342E	1	Axle Assembly, Left Side
49	43338E	43338E	1	Axle Weldment, Left Side
50	43343E	43343E	1	Axle Assembly, Right Side
51	43340E	43340E	1	Axle Weldment, Right Side
52	42810E	42810E	2	FHCS 5/8-18 x 1.75"
53	93882E	93882E	2	Hex Nut, 5/8" x 18
54	42281E	42281E	1	Lower Weldment, 5" PR
55	84692E	84692E	2	SHCS 3/8-16 x 1.75"
56	88111E	88111E	1	Label, Caution, Filter Lube
57	46539E	46539E	2	Decal, Overlay, not used on Date Code "C"
58	41945E	41945E	2	Spacer
N/S	DD9657900SR	DD9657900SR	2	Cord Managemet Bracket Assembly, starting with Date Code "C"
Note: Refer to page 3 for Figure 1, items 1 through 32 N/S = Not Shown				

Figure 2 - 43659SR, 43321SR Pow'r Riser Basic Assembly



Repair Parts List (Refer to Figure 2)				
Item	Model		Qty.	Description
	PRASA20016L	PRASA20027L		
BASIC ASSY	43659SR	43321SR		
1	41886E	41886E	1	Housing Mach P. R.
2	(See Fig. 13)	(See Fig. 13)	1	200 Ton Cylinder Assy.
3	43317E	43317E	1	Adapter O.C. Valve
5	◆	◆	1	O-Ring Power Riser
6	43286E	43286E	1	Gasket Base
8	43285E	43285E	1	200 Ton P.R. Base
10	46740E	46740E	1	Acorn Nut 5/8-11
11	◆	◆	1	Gasket Adapter
12	42275E	42275E	2	PR Base Pin
13	44968E	44968E	2	Rubber Ball 3/8" 70
14	(See Fig. 12)	(See Fig. 12)	1	O.C. Valve and Hoses
15	◆	◆	1	O-Ring 7" x 7-1/4"
17	◆	◆	1	O-Ring 9" x 9-1/2"
18	66021E	66021E	1	Magnet
20	43320E	43320E	1	Incline Screen - 200 Ton
22	93605E	93605E	6	SHCS 5/8-11 x 1.5" Lg.
23	93947E	93947E	6	Lock Washer 5/8"
24	93950E	93950E	1	1/4" Soc Pipe Plug
28	68183E	68183E	2	Gasket Plug
◆ Included in 54411K Repair Kit				

Figure 3A - 69769SR Pump and Motor Sub-Assembly (Date Code "B" only)
DD9772900SR Pump and Motor Sub-Assembly (Date Code "B" thru "C")



Repair Parts List (Refer to figures 3A and 3B)			
Item	Part Number	Qty.	Description
1	69445SR	1	Pump Asm 4P.
	Pump Element	1	See RPS L2596 For MPE Pump Element , starting with Date Code "C"
2	★	1	Gasket-Motor, not used on Date Code "C"
3	★	1	Gasket-Pump @ Motor
	DC9551920SR	1	Gasket-Pump, starting with Date Code "C"
4	★	1	Gasket-Pump @ Valve, not used on Date Code "C"
5	DD6038101E	1	Cover Plate, Reservoir
	DD9585101	1	Cover Plate, Reservoir, starting with Date Code "C"
6	● ■	1	Air Motor
	DA4930259	1	Air Motor, starting with Date Code "C"
7	69026E	1	Pin Dowel 3/16-1
9	(See Fig 18)	1	Manifold Asm NPR
10	86184E	5	SHCS 3/8-16 x 1-1/2"
11	(See Fig 17)	1	Locking Valve w/relief
12	(See Fig 15)	1	Control Valve Asm.
13	42737E	4	SHCS 3/8-16 x 8.0"
14	68963SR	1	Adapter Assy, not used on Date Code "C"
15	69442E	1	Nipple, 1/4" NPT x 1.5"L
	DC9178118	1	Inlet Screen, starting with Date Code "C"
16	80241E	1	Pipe Coupling, 1/4"
	DC9603268	1	Inlet Tube, starting with Date Code "C"
17	(See Fig 11)	1	Filter Block Asm
18	561604E	1	Roll Pin 1/8 x 3/8" LG
19	41964E	2	Swivel Fitting
20	DD6106037E	1	Valve Gasket
21	B1013028X	2	SHCS, 1/4-20 x 1.25" Lg

★ Included in 54177K Repair Kit
 ● Included in 6028099E Gast Motor Repair Kit. Gast Motor Marking 112GDcT4
 ■ Included in DD8985814E Motor Repair Kit

**Figure 3B - 69769SR Pump and Motor Sub-Assembly
DD9772900SR Pump and Motor Sub-Assembly**

NOTE:

 TORQUE TO 75-100 IN-LBS.

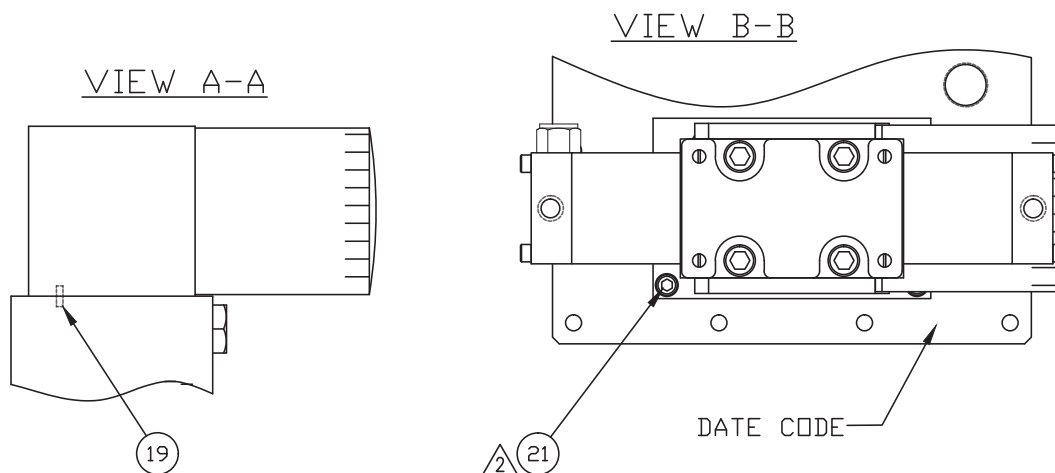
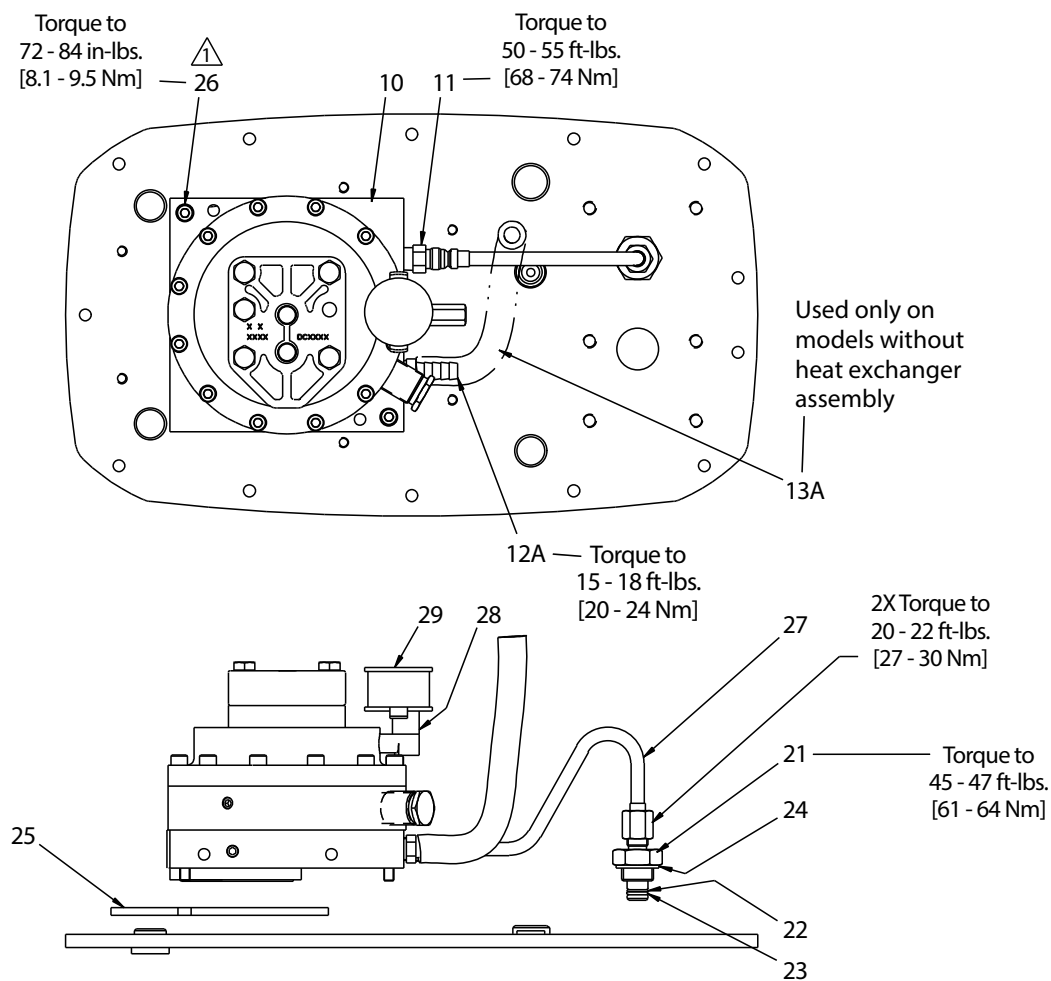


Figure 3C - Starting With Date Code "C"

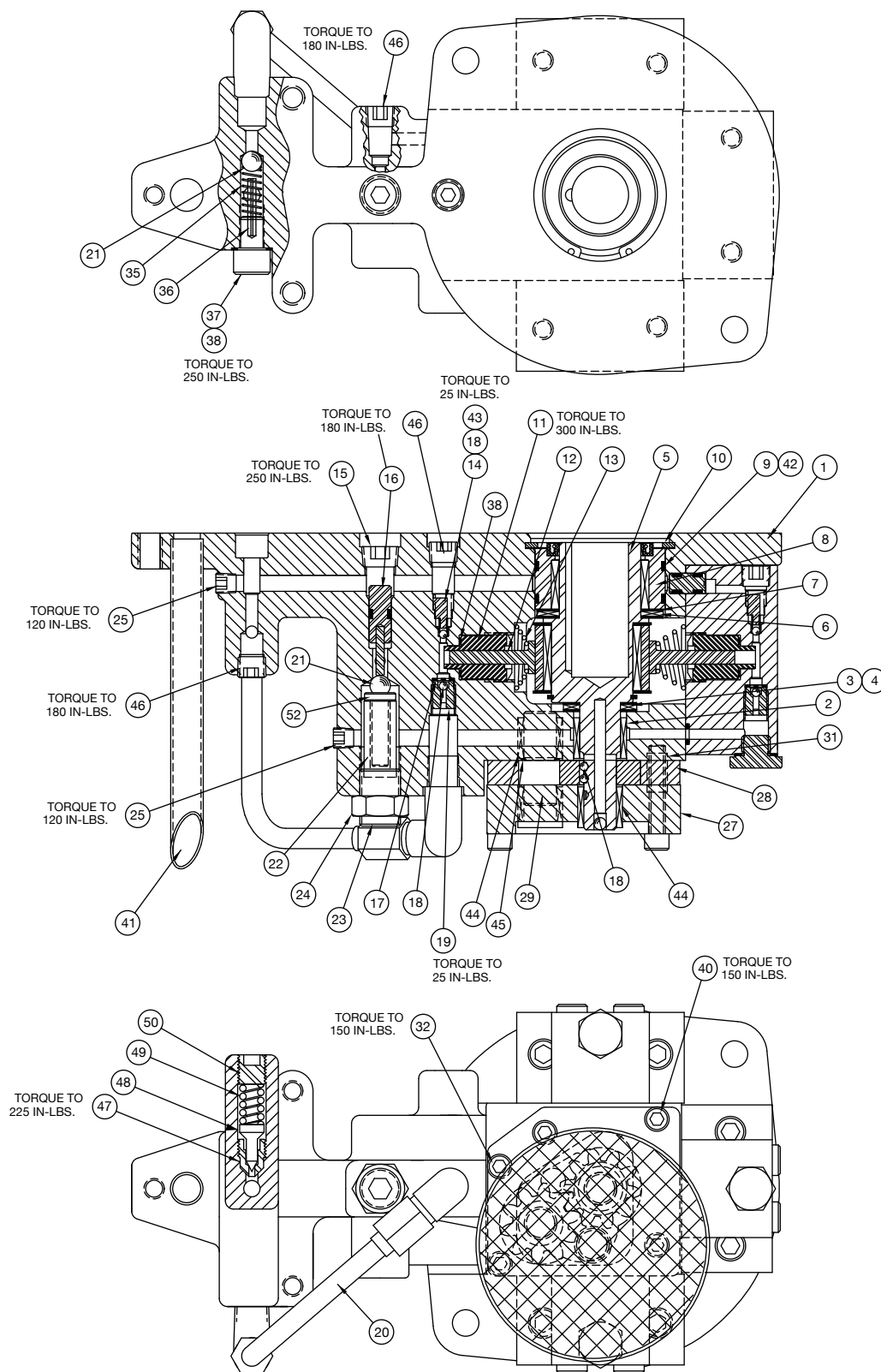


Notes:

Apply Loctite 545 to threads before installation.

Repair Parts List (Refer to figures 3C) Starting With Date Code "C"			
Item	Part Number	Qty.	Description
10	Pump Element	1	see RPS L2596 for MPE
11	F100094-246	1	Fitting 5-4 FTX-S
12A	F100097-16	1	Fitting, Standard Pump
13A	DC9335646	1	Hose, Bypass 8"
21	DC9173690	1	Connector Fitting
22	★BSS0368D	1	Back-up
23	★B1012803	1	O-Ring
24	★DC9271167	1	Copper Gasket
25	★DC9551920	1	Pump Gasket
26	CBE621028-1A	2	SHCS, M6 X 20
27	DD9587900	1	Tube, ASM Steel
28	DC9603268	1	Intake Tube, 6.5" 40L
29	DC9178118	1	Intake Filter
★ Items included in Seal Kit ZE3K			

Figure 4A - 69445SR Pump Assembly



Repair Parts List (Refer to Figures 4A and 4B)							
Item	Part Number	Qty.	Description	Item	Part Number	Qty.	Description
1	44917E	1	Pump Body 4 Piston	27	68849E	1	Plate-Bottom
2	68360E	1	Bearing, Roller	28	68855E	1	Gearset, 3/8" Clydesdale
3	66033E	1	Thrust Bearing	29	68850E	1	Shaft-Idler
4	66474E	2	Thrust Washer	30	68884E	1	Screen
5	(See Fig. 7)	1	Eccentric Shaft Assembly	31	68922E	2	Tube-Guide .22
6	66106E	1	Thrust Bearing	32	89148E	1	SHCS 1/4-28 x 1-1/2"
7	66108E	2	Thrust Washer	35	68225E	1	Spring
8	(See Fig. 5)	1	Adapter-Shaft Asm.	36	81332E	1	Roll Pin 1/8 x 15/16"
9	★	2	O-Ring 1-7/8 x 2" Ure	37	68226E	1	Screw, Ball Stop
10	68978E	1	Retaining Ring	38	85726E	2	Gasket 25/64 x 19/32"
11	68915E	1	Adaptor .210 Piston	40	68255E	4	SHCS 1/4-28 x 1-3/4"
12	68830E	1	Piston .210 Dia.	41	68569E	1	Tube Return
13	68340E	1	Spring, Piston	42	★	2	Shaft Adp Backup Was.
14	68810E	1	Ball Stop	43	66042E	1	Spring
15	93950E	1	1/4" Soc Pipe Plug	44	68891E	3	Bearing
16	(See Fig. 6)	1	Unloading Piston Assy	45	68892E	1	Ring-Retaining
17	66043E	1	Ball Retainer	46	A1007245	3	Pipe Plug 1/8" Flush
18	90906E	5	Ball 1/8"	47	▲	1	Seat - Ext Relief
19	66046E	1	Intake Seat	48	▲	1	Cone - Ext Relief
20	68851SR	1	Tube Asm	49	▲	1	Spring - Relief Valve
21	91701E	2	Ball 5/16"	50	66083E	1	Relief Valve Adj. Screw
22	43671E	1	Unloading Spring	52	43673E	1	Spring Cap Unload Valve
23	43674E	1	Set Screw Unloading Valve	53	(See Fig. 8)	3	Piston Blk .210
24	43675E	1	Hex Nut Unloading Valve	54	B1356028	6	SHCS
25	97641E	2	1/16" Soc Pipe Plug	55	82687E	6	SHCS 5/16-24 x 5/8"

★ Included in 54177K Repair Kit ▲ Included in 55057K Relief Kit
Note: Not used starting with Date Code "C"

Figure 4B - 69445SR Pump Assembly

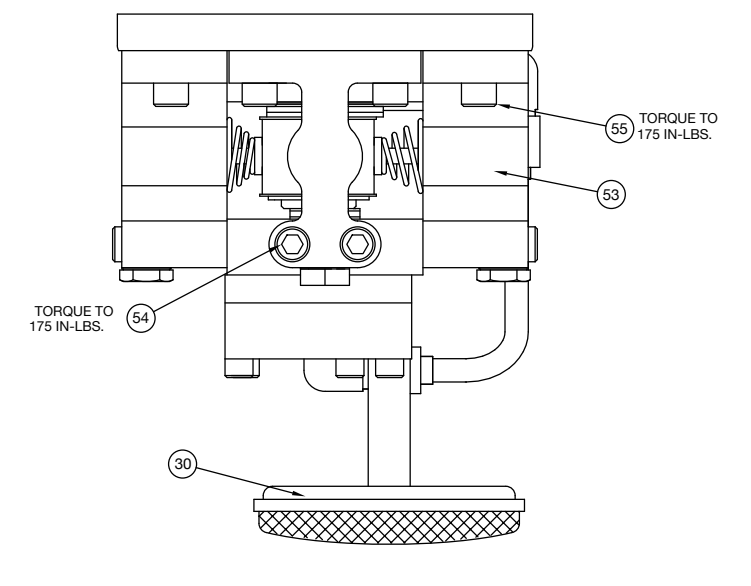
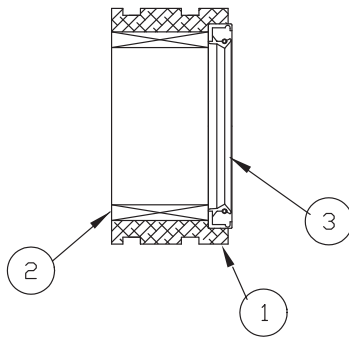


Figure 5 - 68829SR Adapt-Shaft Assembly

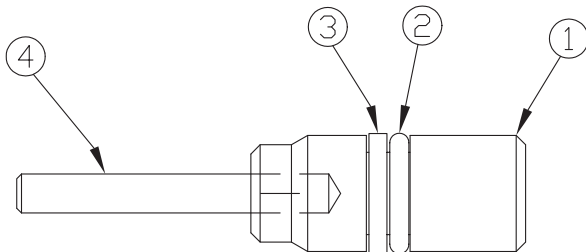


Repair Parts List (Refer to Figure 5)

Item	Part Number	Qty.	Description
1	68912E	1	Adapter Shaft
2	66030E	1	Bearing
3	★	1	Seal

★Included in Repair Kit 54177K
Note: Not used starting with Date Code "C"

Figure 6 - 43766SR Unloading Piston Assembly

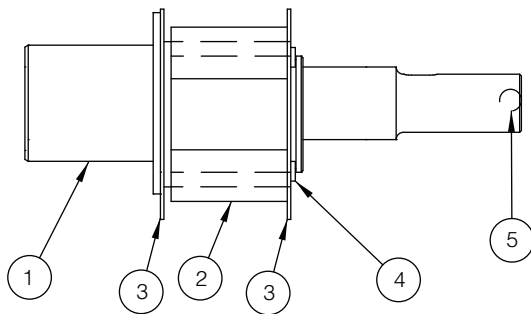


Repair Parts List (Refer to Figure 6)

Item	Part Number	Qty.	Description
1	43765E	1	Unload Piston
2	5602009E	1	O-Ring
3	43768E	1	Back-Up Washer
4	43686E	1	Roll Pin

Note: Not used starting with Date Code "C"

Figure 7 - 68906SR Eccentric Shaft Assembly

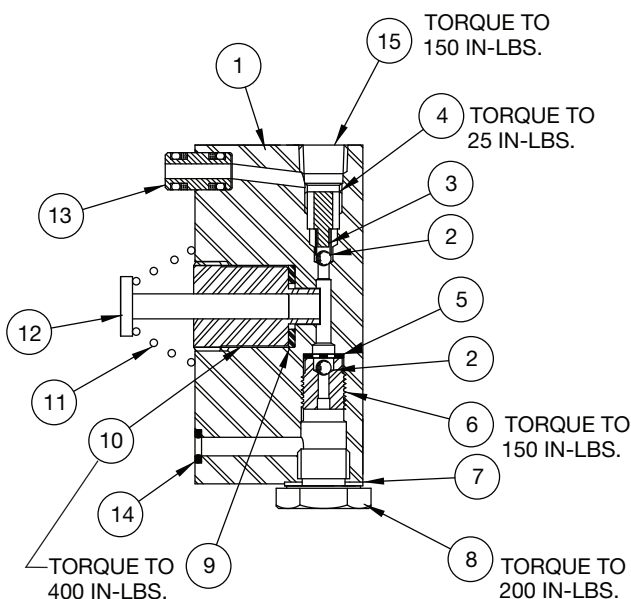


Repair Parts List (Refer to Figure 7)

Item	Part Number	Qty.	Description
1	68907E	1	Eccentric Shaft, 7/8"
2	68818SR	1	Eccentric Asm.
3	69475E	2	Bearing Washer
4	67863E	1	Retaining Ring
5	90548E	1	Ball

Note: Not used starting with Date Code "C"

Figure 8 - 68832SR Piston Block Assembly

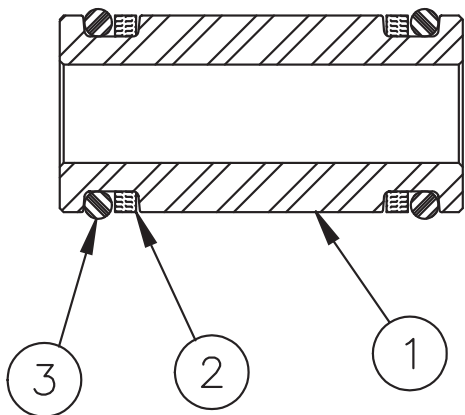


Repair Parts List (Refer to Figure 8)

Item	Part Number	Qty.	Description
2	90906E	2	Ball 1/8"
3	66042E	1	Spring
4	68810E	1	Ball Stop
5	66043E	1	Ball Retainer
6	66046E	1	Intake Seat
7	86269E	1	Gasket 29/64 x 5/8"
8	68825E	1	Plug, Piston Block
9	85726E	1	Gasket 25/64 x 19/32"
10	68915E	1	Adaptor .210 Piston
11	68340E	1	Spring, Piston
12	68830E	1	Piston, .210 Dia.
13	68970SR	1	Adapter Assy.
14	★	1	O-Ring 3/16 x 5/16"
15	A1007245	1	Pipe Plug 1/8" Flush

★Included in Repair Kit 54177K
Note: Not used starting with Date Code "C"

Figure 9 - 68963SR Adapter Assembly



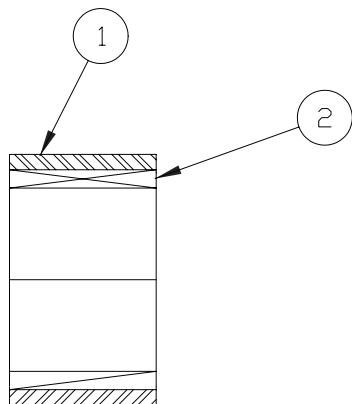
Repair Parts List (Refer to Figure 9)

Item	Part Number	Qty.	Description
1	88073E	1	Valve Adapter
2	★	2	B-U Ring
3	5602012E	2	O-ring, 3/8 x 1/2"

★ Included in Repair Kit 54177K

Note: Not used starting with Date Code "C"

Figure 10 - 68818SR Eccentric Bearing Assembly

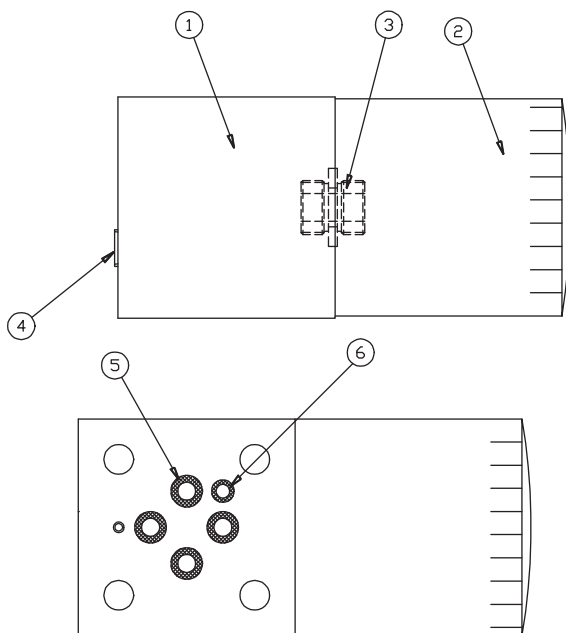


Repair Parts List (Refer to Figure 10)

Item	Part Number	Qty.	Description
1	68913E	1	Ring, Eccentric
2	68060E	1	Bearing, Sleeve

Note: Not used starting with Date Code "C"

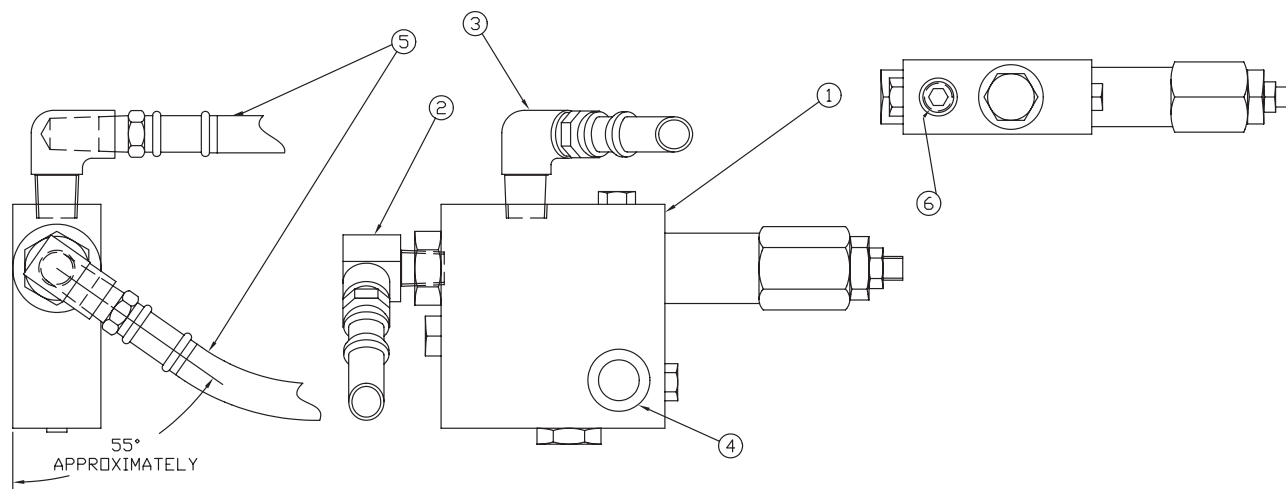
Figure 11 - 69740USR Filter Block Assembly



Repair Parts List (Refer to Figure 11)

Item	Part Number	Qty.	Description
1	69546E	1	Filter Block
2	69670E	1	Oil Filter Power Pump
3	69144E	1	Adapter Filter
4	93950E	2	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"

Figure 12 - 42353SR OC Valve Subassembly

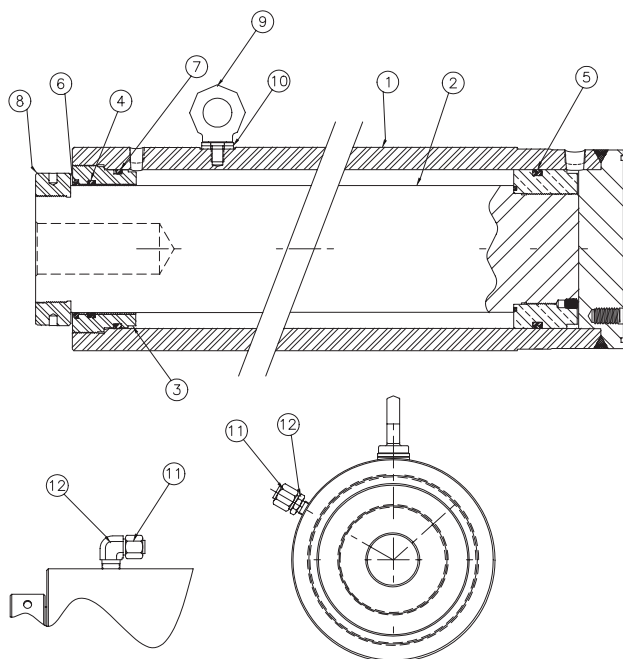


Repair Parts List (Refer to Figure 12)

Item	Part Number	Qty.	Description	Item	Part Number	Qty.	Description
1	69522MSR	1	O.C. Valve Asm New PR	5	42354E	2	Hose 1/4 x 17" Nw PR
2	18970E	1	Elbow 1/4" 90 Deg Strt	6	84084E	1	3/8" Pipe Plug - Flush
3	42352E	1	Elbow 1/4-3/8" 90 Strt	N/S	94414E	1	Ball 7/16"
4	68183E	2	Gasket-Plug				

N/S = Not Shown

Figure 13 - 43656SR, 43316SR Cylinder Assembly

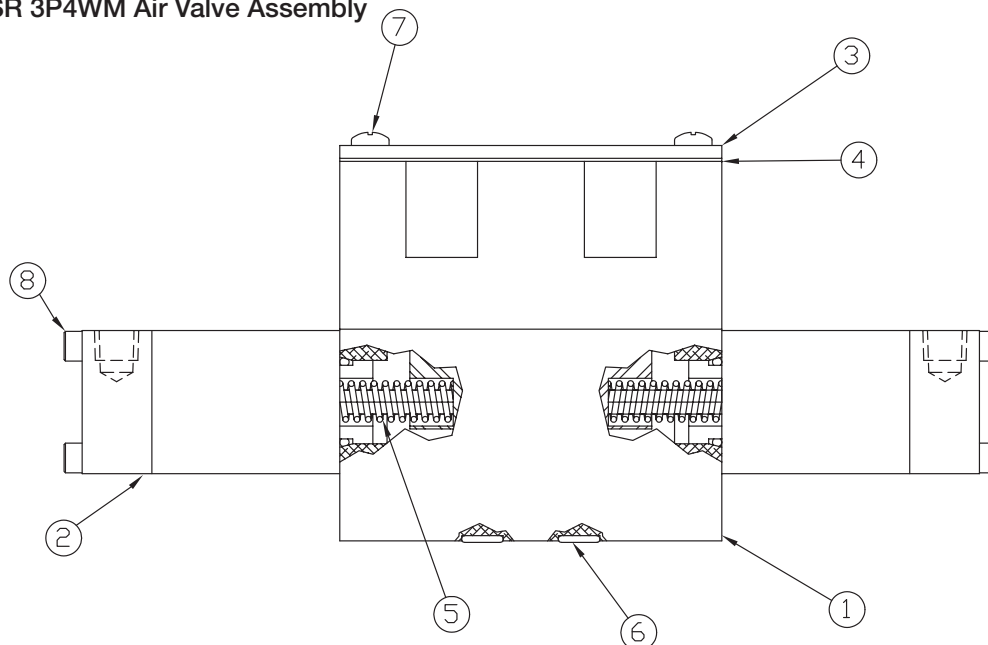


Repair Parts List (Refer to Figure 13)

Model	PRASA20016L	PRASA20027L		
Item	Asm. 43656SR	Asm. 43316SR	Qty.	Description
1	43654E	43304E	1	Cylinder Weldment
2	43660SR	43296SR	1	Piston Rod Asm.
3	43299E	43299E	1	200 Ton Head Gland
4	*	*	1	T-Seal Rod 5.5" Dia
5	*	*	1	T-Seal Piston 7-1/4"
6	*	*	1	Wiper 5.5" Rod Dia
7	*	*	1	O-Ring 7" x 7-7/8"
8	43298E	43298E	1	Ring
9	43308E	---	2	Swivel Eye Bolt 1/2"
	---	43308E	1	Swivel Eye Bolt 1/2"
10	44888E	---	2	Washer Eyebolt
	---	44888E	1	Washer Eyebolt
11	45664E	45664E	1	O-Ring Face Seal Plug
12	44865E	45666E	1	O-Ring Ftg, 3/8" NPT

* Included in 54410K Repair Kit

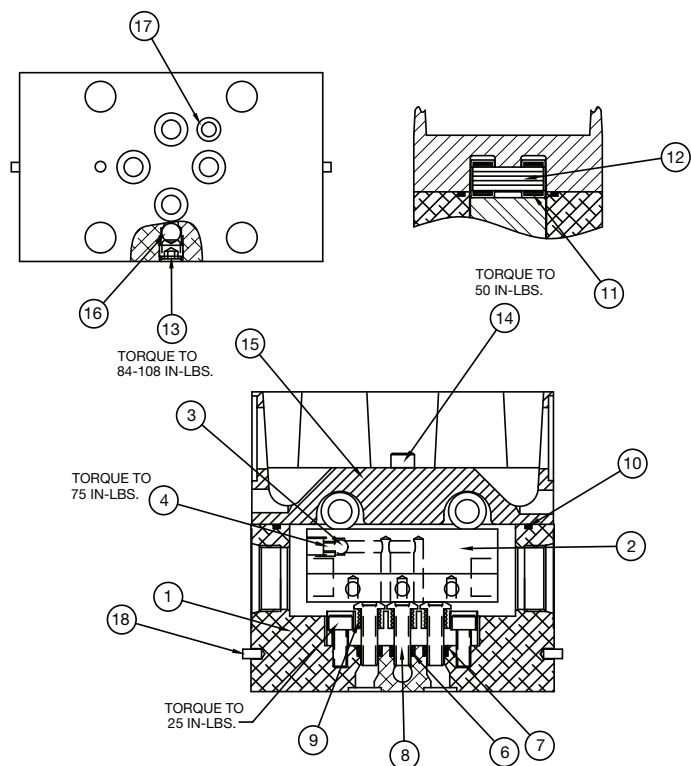
Figure 14 - 41949SR 3P4WM Air Valve Assembly



Repair Parts List (Refer to Figure 14)

Item	Part Number	Qty.	Description	Item	Part Number	Qty.	Description
1	(See Fig. 15)	1	Valve Assembly TC	5	68711E	2	Spring
2	(See Fig. 16)	2	Air Cyl Assembly	6	56020112E	4	O-Ring 5/16 x 7/16"
3	68388E	1	Cover, Valve	7	98250E	4	Screw
4	68389E	1	Gasket Cover	8	41959E	8	SHCS #10-24 x 3.25"

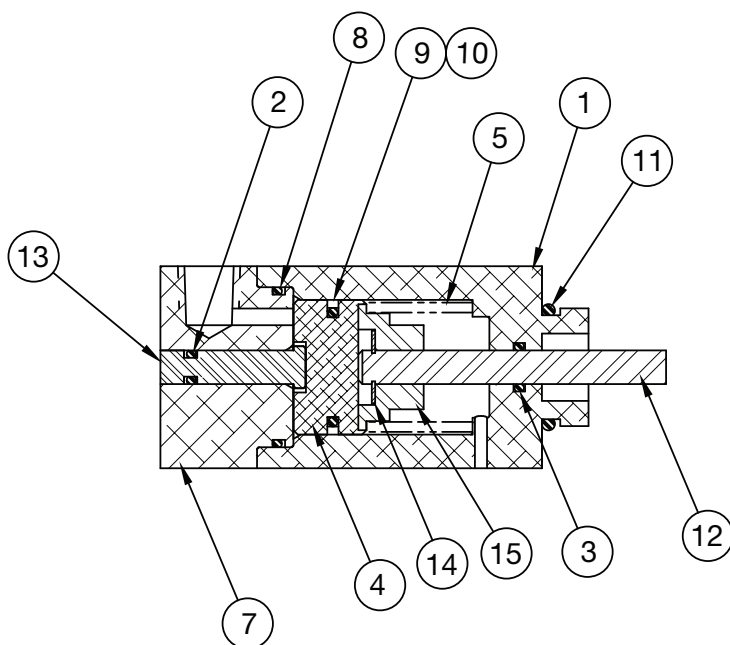
Figure 15 - 68710SR Valve Assembly TC



Repair Parts List (Refer to Figure 15)

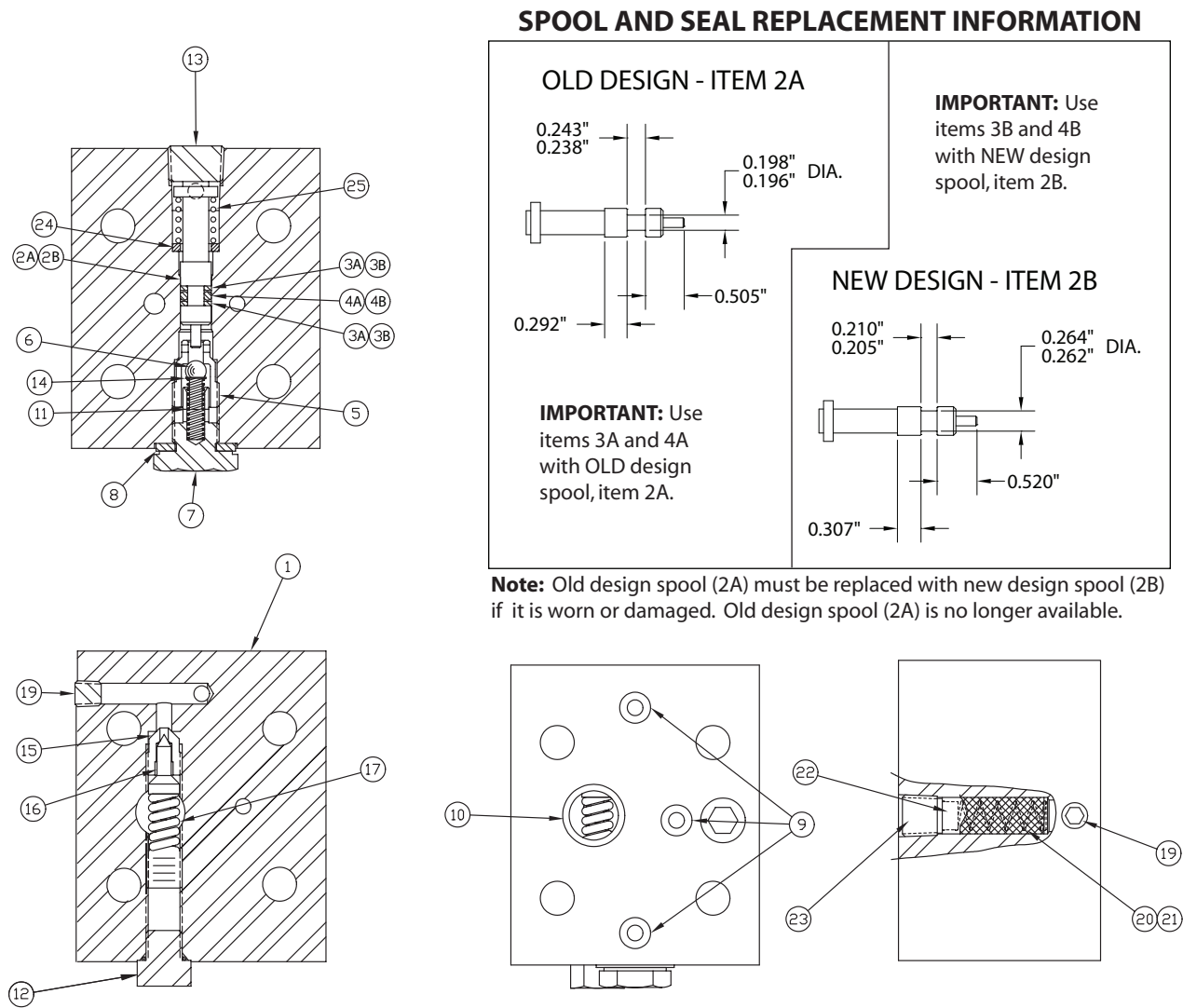
Item	Part Number	Qty.	Description
1	68708E	1	Body-Valve
2	68709E	1	Slider
3	90548E	1	Ball
4	40254E	1	Screw
6	5602009E	3	O-Ring
7	68391E	3	Back-up Washer
8	68383E	3	Seal
9	68384E	3	Spring
10	5602038E	1	O-Ring
11	68385E	4	Bearing, Roller
12	68390E	2	Pin Bearing
13	94418E	1	Set Screw, 5/16-18 x 1/4"
14	68264E	2	Screw
15	68381E	1	Plate-Top
16	92549E	1	Ball, 1/4"
17	5602008E	1	O-Ring
18	69636E	2	Roll Pin

Figure 16 - 41954SR Air Cylinder Assembly



Repair Parts List (Refer to Figure 16)			
Item	Part Number	Qty.	Description
1	42744E	1	Body Air Cylinder
2	5602006E	1	O-Ring 1/8-1/4"
3	5602010E	1	O-Ring 1/4-3/8"
4	42747E	1	Air Cylinder Piston
5	42749E	1	Spring, Air Cylinder
7	41956E	1	End Cap
8	5602023E	1	O-Ring 1-1/16 x 1-3/16"
9	68497E	1	Seal
10	5602017E	1	O-Rng 11/16 x 13/16
11	5603910E	1	O-Ring SAE Port #10
12	42746E	1	Push Pin Air Valve
13	41958E	1	Override Pin
14	42750E	1	E-Ring 1/4" Shaft
15	42748E	1	Spring Plate Air Valve

Figure 17 - 42480SR Locking Valve Subassembly (with relief)

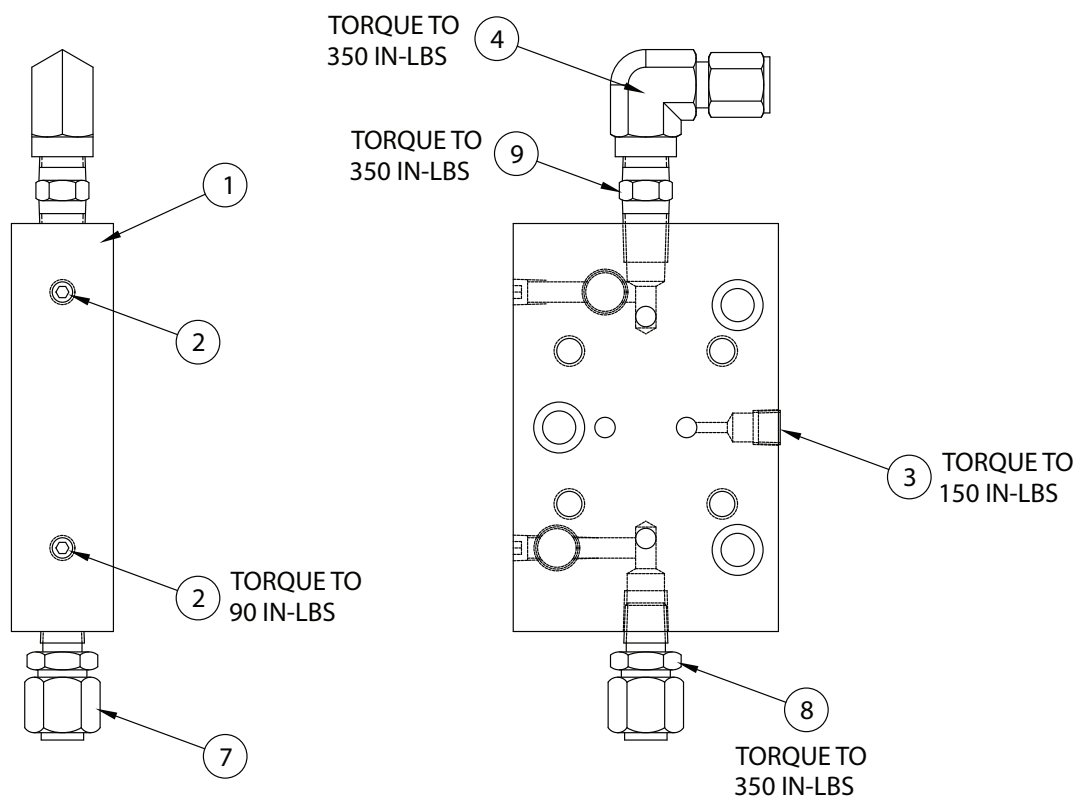


Repair Parts List (Refer to figure 17)

Item	Part Number	Qty.	Description	Item	Part Number	Qty.	Description
1	42307E	1	Locking Valve Body - Relief	12	68258E	1	Plug SAE #4
2A	(not available)	1	Spool Piston (old design)	13	84084E	1	Spring Washer
2B	42727E	1	Spool Piston (new design)	14	69870E	1	Spring Eyelet Lock
3A	5608106E	2	Backup Washer 8-106	15	▲	1	Seat - Ext Relief
3B	❖	2	Backup Washer TEF -010	16	▲	1	Cone - Ext Relief
4A	5602106E	1	O-Ring 3/16 x 3/8"	17	▲	1	Spring - Relief Valve
4B	❖	1	O-Ring 1/4 x 3/8"	18	66083E	1	Relief Valve Adjusting Scr.
5	68590E	1	Seat	19	40049E	3	1/16" Pipe Plug - Flush
6	92526E	1	Ball 9/32"	20	69518E	1	Screen O.C. Valve
7	69508E	1	Plug - Adapt P.R. Lock	21	42423E	1	Screen O.C. Valve
8	68183E	1	Gasket - Plug	22	69517E	1	Screen Cap
9	56020102E	3	O-Ring 1/4 x 3/8" Ureth	23	82522E	1	Pipe Plug 1/4" Flush
10	56020162E	1	O-Ring 5/8 x 3/4" Ureth	24	42726E	1	Washer PR Lock Block
11	68870E	1	Compression Spring	25	68871E	1	Compression Spring

❖ Included in 55057K Relief Kit ▲ Included with item 2B

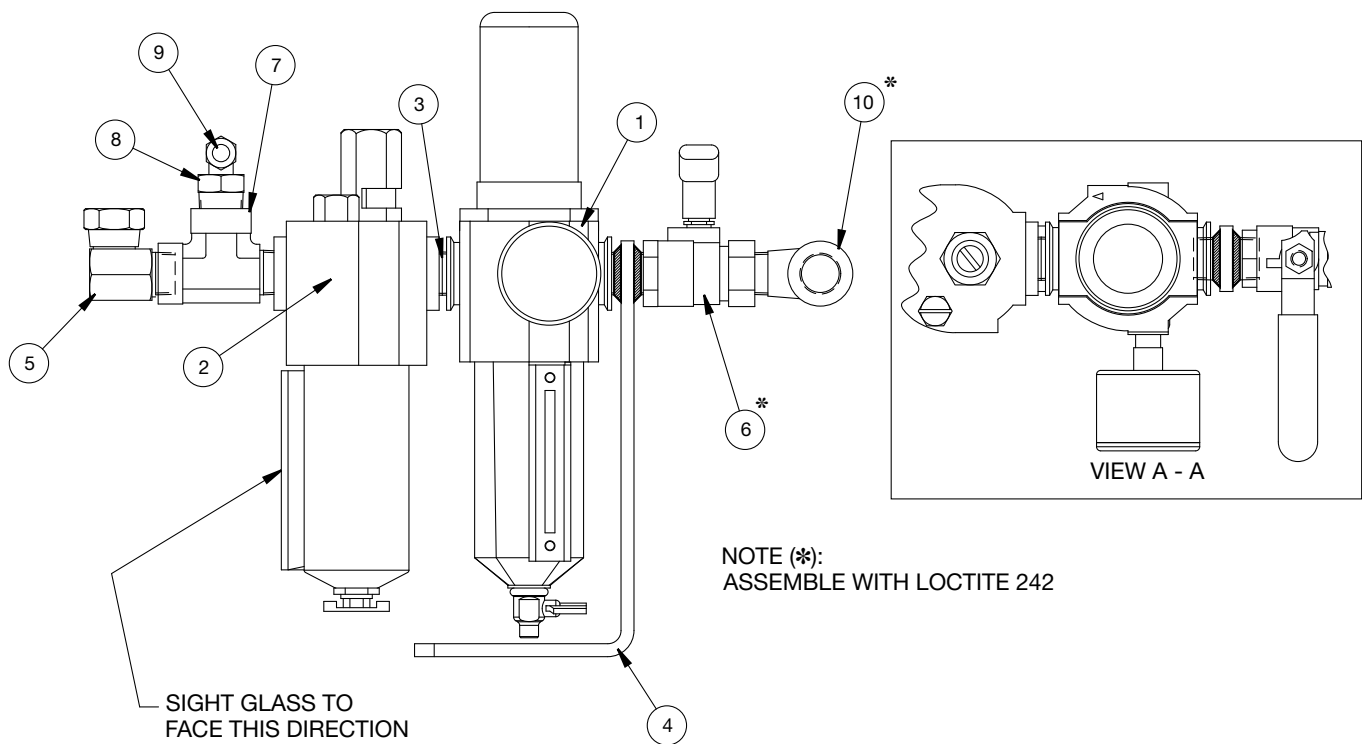
Figure 18 - 69749SR Manifold Assembly



Repair Parts List (Refer to figure 18)

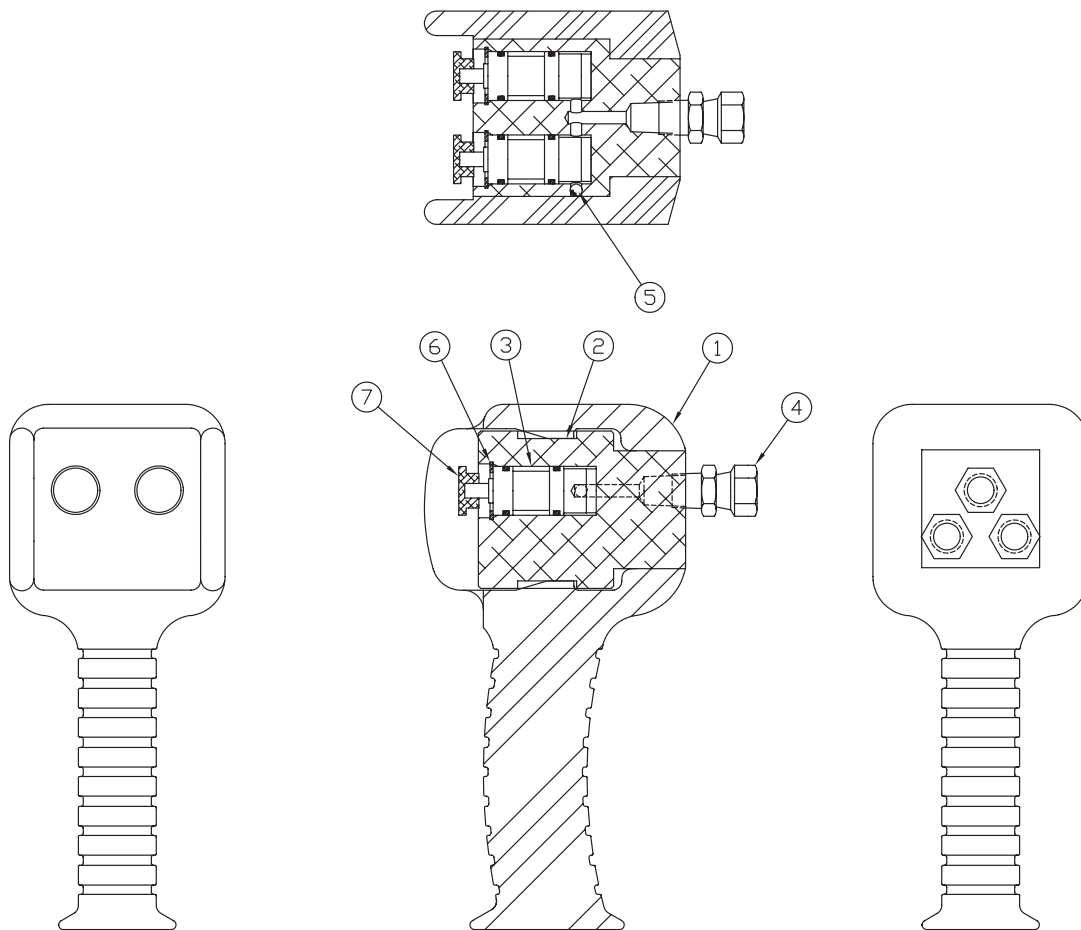
Item	Part Number	Qty.	Description	Item	Part Number	Qty.	Description
1	69429E	1	Manifold Pow'r Riser	7	45664E	1	O-Ring Face Seal Plug
2	40049E	2	1/16" Pipe Plug - Flush	8	45663E	1	O-Ring Face Tube Ftg 1/4"
3	81093E	1	Pipe Plug 1/8" Flush	9	4100067E	1	Nipple 1/4"
4	43166E	1	Elbow 90 3/8 - 1/4"				

Figure 19 - DS1019900SR Filter Lube Assembly



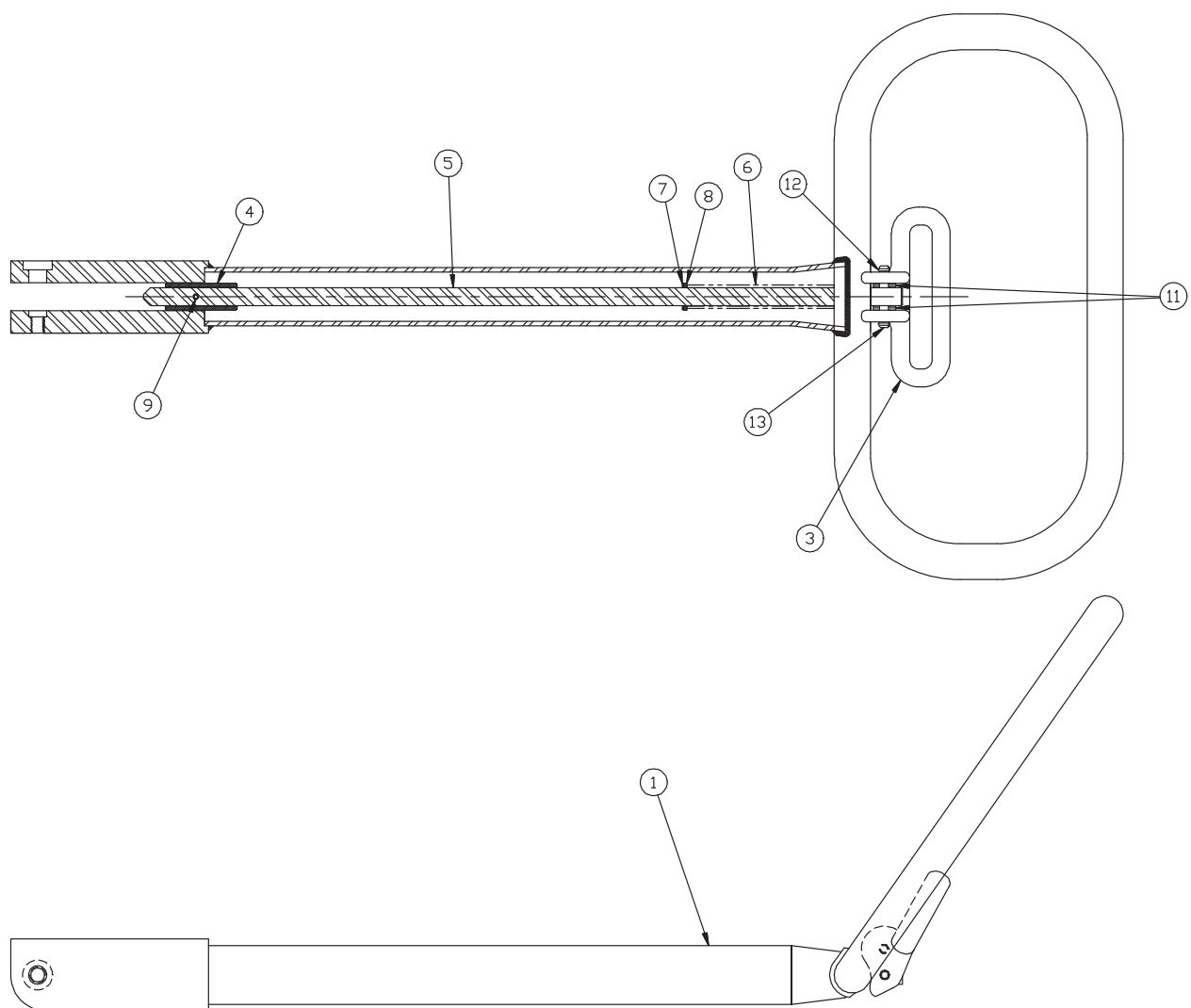
Repair Parts List (Refer to Figure 19)			
Item	Part Number Models PRASA20016L and PRASA20027L	Qty.	Description
1	DS1018118	1	Filter/Regulator
2	86242E	1	Air Lubricator
3	69998	1	Pipe Nipple 1/2" BRS
4	42511E	1	Bracket/Nipple Weldment
5	41763E	1	Swivel Male 1/2" NPTF
6	85851E	1	Air Valve
7	42378E	1	Male Run Tee 1/2"
8	42377E	1	Pipe Adpter, 1/2-1/8"
9	42380E	1	Swivel Adapter, 1/8"-90
10	86244E	1	Street Elbow

Figure 20 - 41950SR Motor Pendant



Repair Parts List (Refer to Figure 20)			
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

Figure 21 - 41961SR Upper Handle Assembly



Repair Parts List (Refer to Figure 21)

Item	Part Number	Qty.	Description	Item	Part Number	Qty.	Description
1	41595E	1	Upper Weldment	8	41614E	1	Washer 9/16" ID x 3/32"
3	42368E	1	Handle Lock Lever	9	42497E	1	Roll Pin 5/32 x 7/8"
4	41600E	1	Sleeve	11	88429E	4	Washer SS 1/4"
5	41601E	1	Handle Rod	12	42340E	4	Pin Ring
6	41602E	1	Spring . 656 x 9.50"	13	42338E	2	Pin Handle Lever
7	41613E	1	E-Ring .8/.82 x .042				

