

Pow'r Riser Lifting Jacks PR Series - 60 Ton Air Models

L54721 Rev. F 04/22

For Date Codes Beginning with the Letter "A"

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.

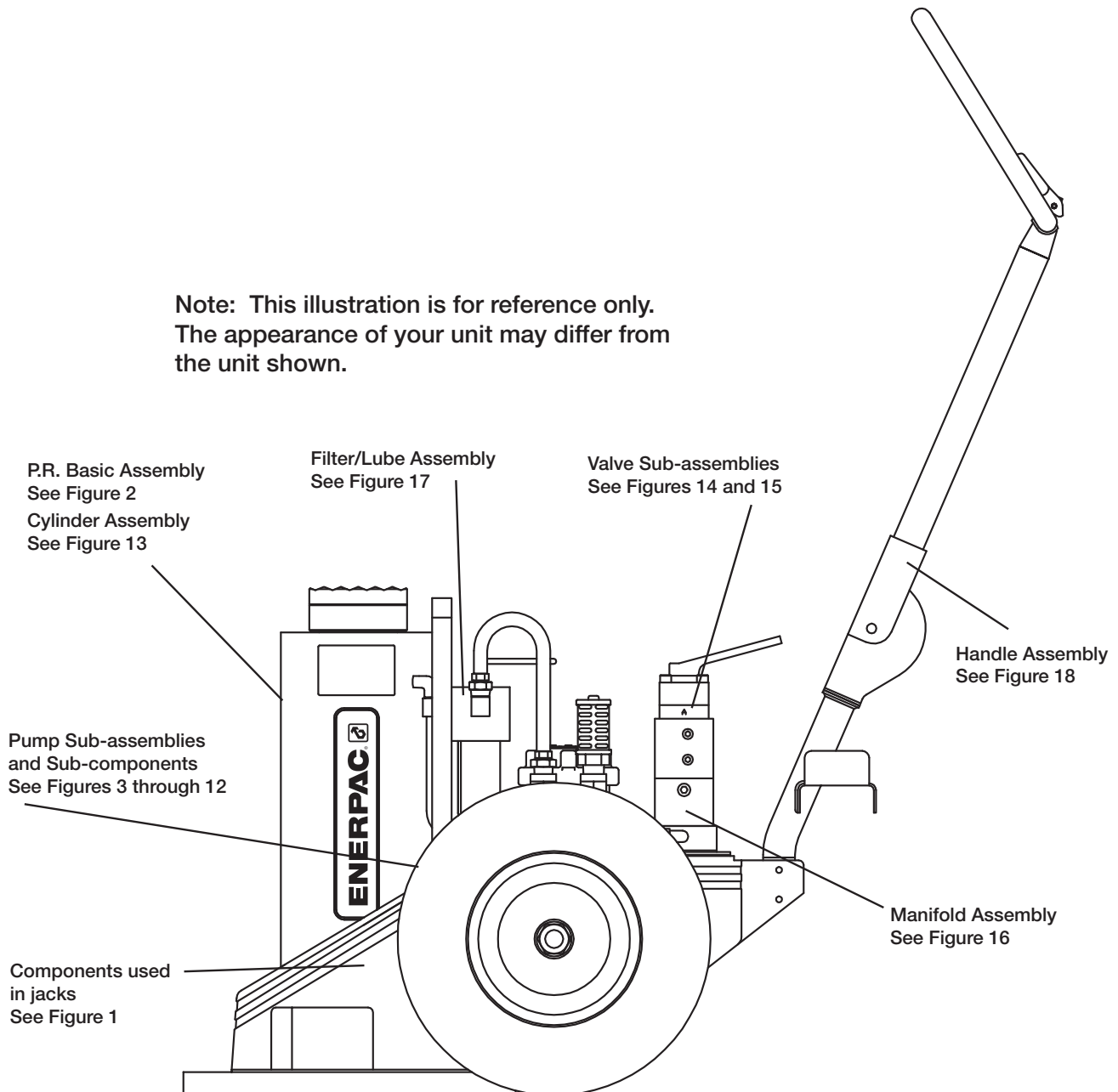


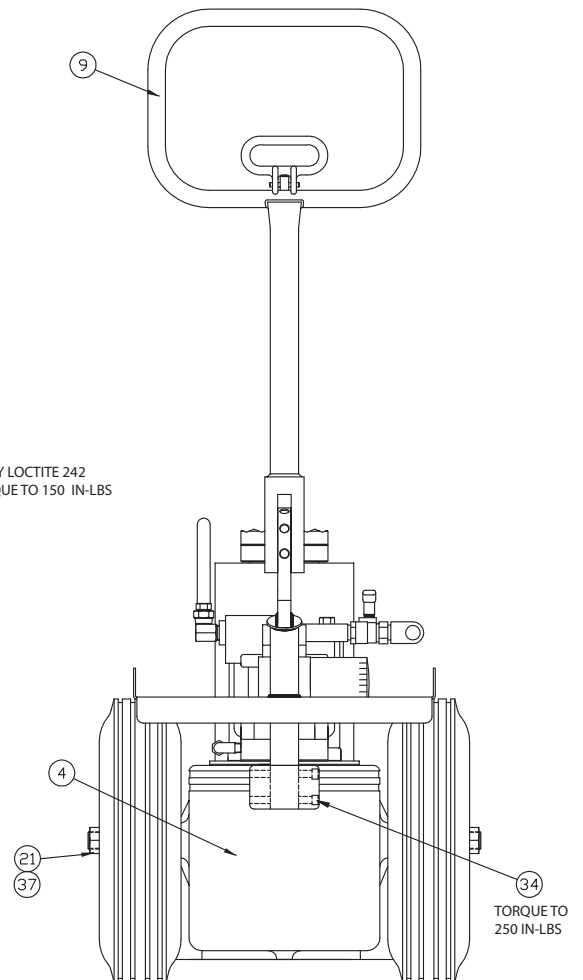
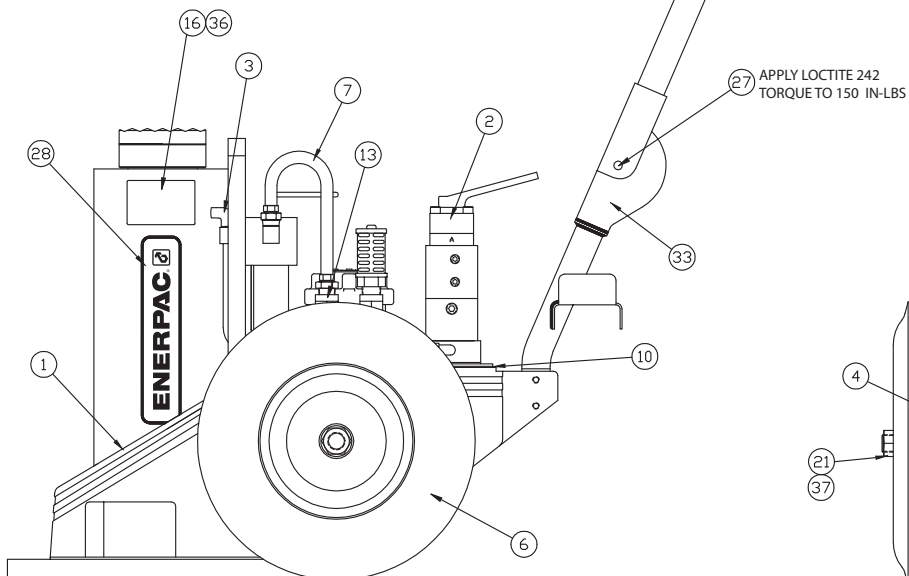
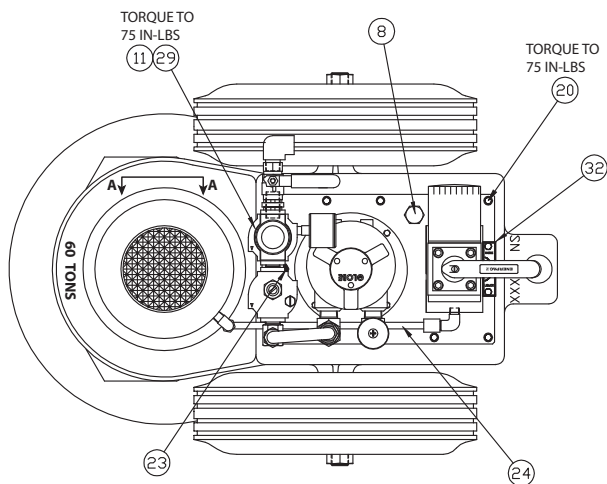
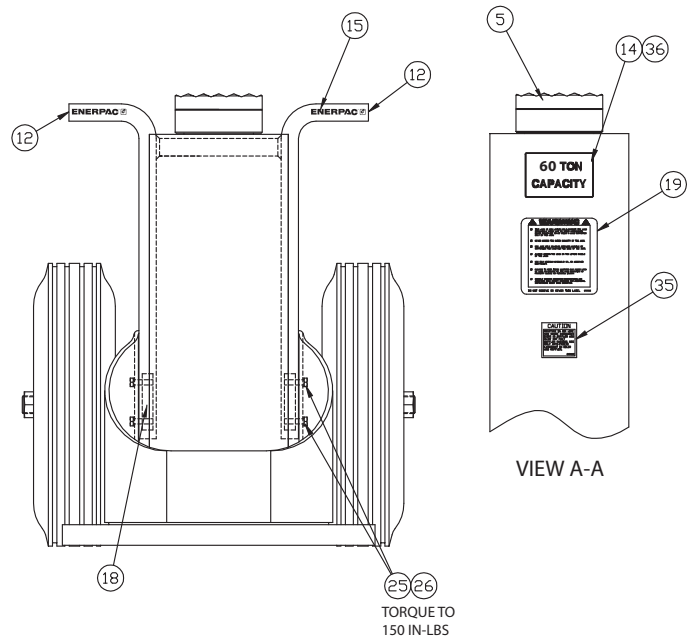
Figure 1 - Main Assembly

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

Testing Procedure:

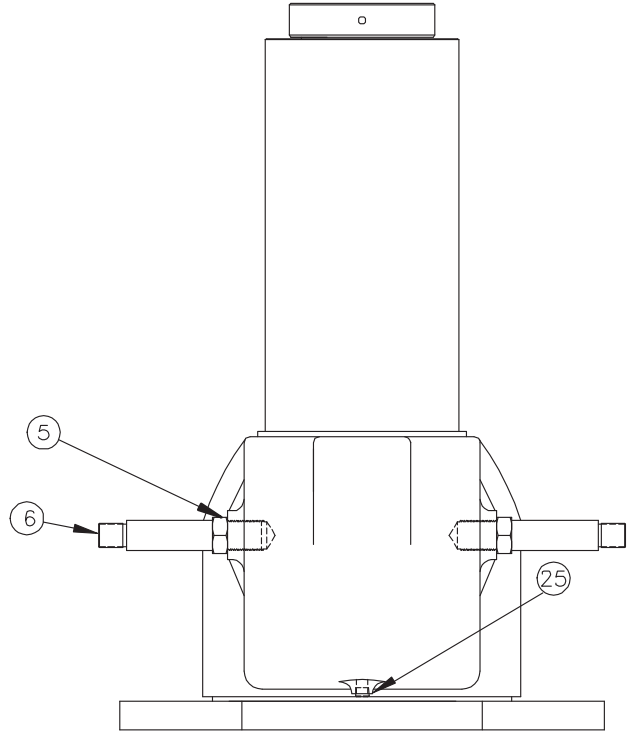
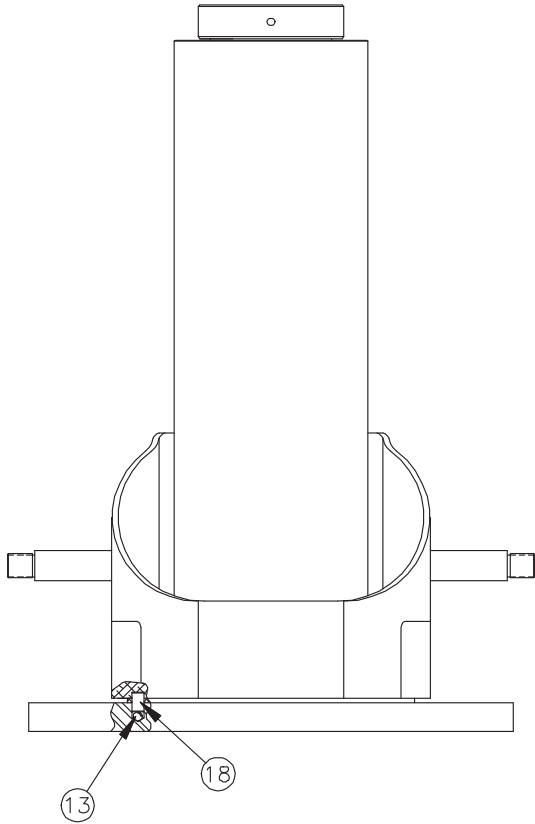
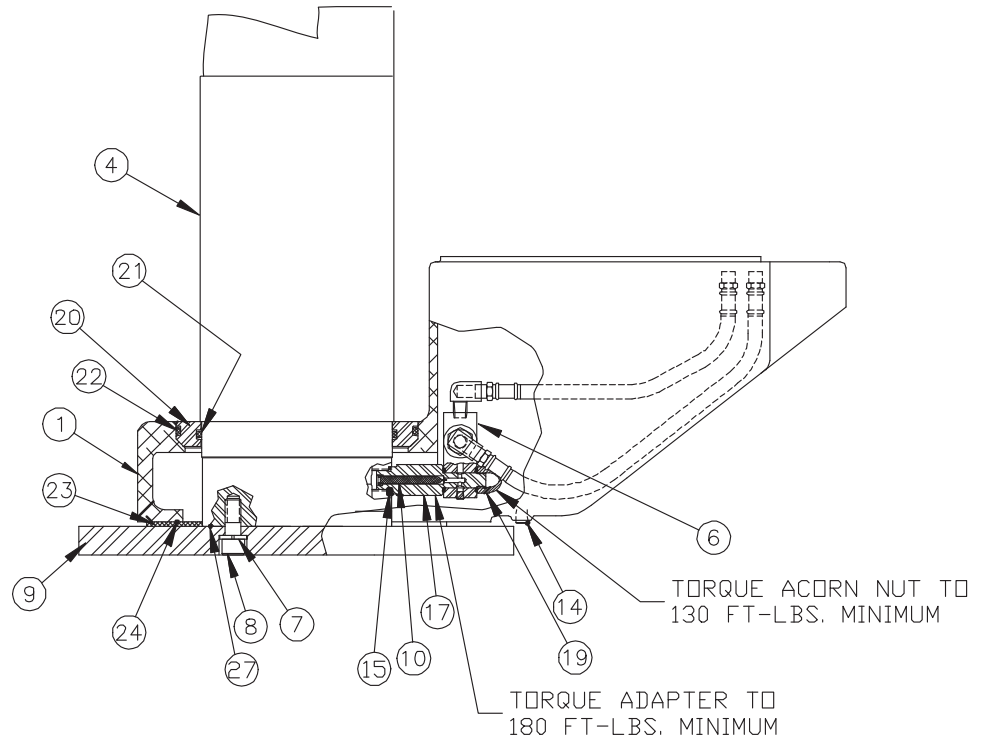
Load the jack to 60 tons, hold and check.
No drift allowed.

Lift 2.25-1.50" @ 1 minute. Lower and
check load holding. 0.31" drift max.
before load lock off.



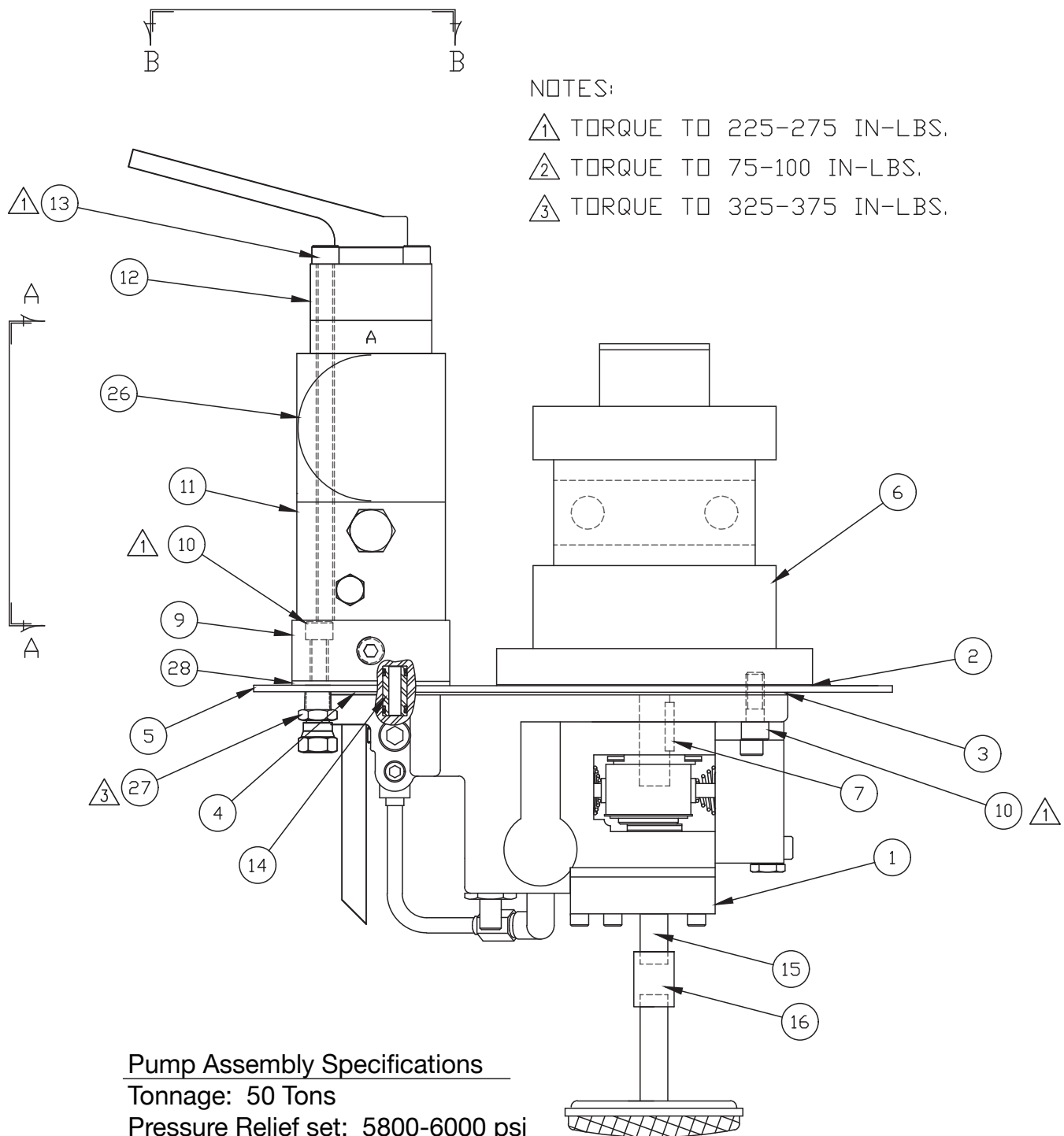
Repair Parts List (Refer to figure 1)				
Item	Model		Qty.	Description
	PRAMA06014L	PRAMA06027L		
1	(See Fig. 2)		1	PR Basic Asm
2	(See Fig. 3)		1	Pump Sub Asm 60 Ton Air
3	40085E	40085E	1	Male Elbow 3/8-3/8" Ferulok
5	42208E	42208E	1	Load Cap PR Long Stm
6	41944E	41944E	2	Tire/Rim Assembly
7	41779E	41779E	1	Air Tubing Power Rise
8	88743E	88743E	1	Plug Hex O-Ring
9	(See 18)		1	Handle Assembly
10	85469E	85469E	1	Gasket
11	(See Fig. 17)		1	Filter Lube Asm 100T
12	43021E	N/A	2	Square Hole Plug PR
13	86244E	86244E	1	Street Elbow
14	42369E	42369E	1	Label 60 Ton Capacity
11	42358E	N/A	1	Lifting Bar 24" PR
16	42437E	42438E	1	Model Label
18	42365E	N/A	2	Nut Plt - Lift Bar
19	89292E	89292E	1	Decal, Warning PWR R
20	B2005046	B2005046	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	42362E	42412E	1	Tube 6024
25	42363E	N/A	4	HCS 5/16-18 x1.25 Plt.
26	93942E	N/A	4	Lock Washer 5/16
27	41983E	41983E	1	Screw Shoulder
28	89967E	89967E	1	Enerpac Logo - Large
29	B2007046	B2007046	2	Washer Hd. Screw 1/2-20 x 3/4"
31	88187E	88187E	1	Enerpac Logo
32	86027E	86027E	1	Control Valve Plate
33	41598E	41598E	1	Lower Weldment 4" PR
34	B1075028	B1075028	2	SHCS 3/8-16 x 1.75"
35	88111E	88111E	1	Label, Caution, Filter/Lube
36	46539E	46539E	1	Decal, Overlay
37	41945E	41945E	2	Spacer

Figure 2 - 42333SR, 42409SR P. R. Basic Assembly



Repair Parts List (Refer to figure 2)				
Item	Model		Qty.	Description
	PRAMA06014L	PRAMA06027L		
BASIC ASSY	42333SR	42409SR		
1	41886E	41886E	1	Housing Mach P. R.
4	(See Fig. 13)		1	60 Ton Cyl Asm
5	85477E	85477E	2	Jam Nut
6	(See Fig. 12)		1	OC Valve/Hoses
7	93947E	93947E	6	Lock Washer 5/8"
8	93605E	93605E	6	SHCS 5/8-11 x 1.5 Lg.
9	45811E	43788E	1	60 Ton P. R. Base
10	89754E	89754E	1	Screen - 2" Nipple
13	44968E	44968E	2	Rubber Ball 3/8" 70
14	93950E	93950E	1	1/4 Soc Pipe Plug
15	◆	◆	1	Gasket Adapter
16	41948E	41948E	2	Axle Shaft
17	41942E	41942E	1	Adapter O.C. Valve
18	42275E	42275E	2	PR Base Pin
19	46740E	46740E	1	Acorn Nut 5/8-11
20	41940E	41940E	1	Ring 100 Ton
21	◆	◆	1	O-Ring 6-3/4 x 7-1/4"
22	◆	◆	1	O-Ring 9 x 9-1/2"
23	◆	◆	1	Gasket Base
24	◆	◆	1	O-Ring Power Riser
25	66021E	66021E	1	Magnet
27	◆	◆	1	O-Ring 6" x 6-1/4"
28	◆	◆	1	Gasket Plug
◆ Included in 54411K Repair Kit.				

Figure 3A - 69767SR Pump and Motor Sub-Assembly



Repair Parts List (Refer to figures 3A and 3B)			
Item	Part Number	Qty.	Description
1	(See Fig. 4)	1	Pump Asm 60T PR 8AM
2	★	1	Gasket-Motor
3	★	1	Gasket-Pump @ Motor
4	★	1	Gasket-Pump @ Valve
5	DD6038101E	1	Cover Plate, Reservoir
6	❖ ■	1	Air Motor 8AMNRV28A
7	69026E	1	Pin Dowel 3/16-1
9	(See Fig. 16)	1	Manifold Asm NPR
10	86184E	5	SHCS 3/8-16 x 1-1/2
11	(See Fig. 15)	1	Locking Valve w/relief
12	(See Fig. 14)	1	4 W Valve Asm Man Mtg.
13	42383E	4	SHCS 3/8-16 x 8.0
14	(See Fig. 9)	1	Adapter Assy.
15	69442E	2	Nipple 1/4 NPT x 1.5L"
16	80241E	2	Pipe Coupling 1/4"
19	561604E	1	Roll Pin 1/8 x 3/8 Lg.
26	(See Fig. 11)	1	Filter Block Asm
27	41964E	2	Swivel Fitting
28	DD6106037E	1	Valve Gasket
29	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 - 69767SR Pump and Motor Sub-Assembly

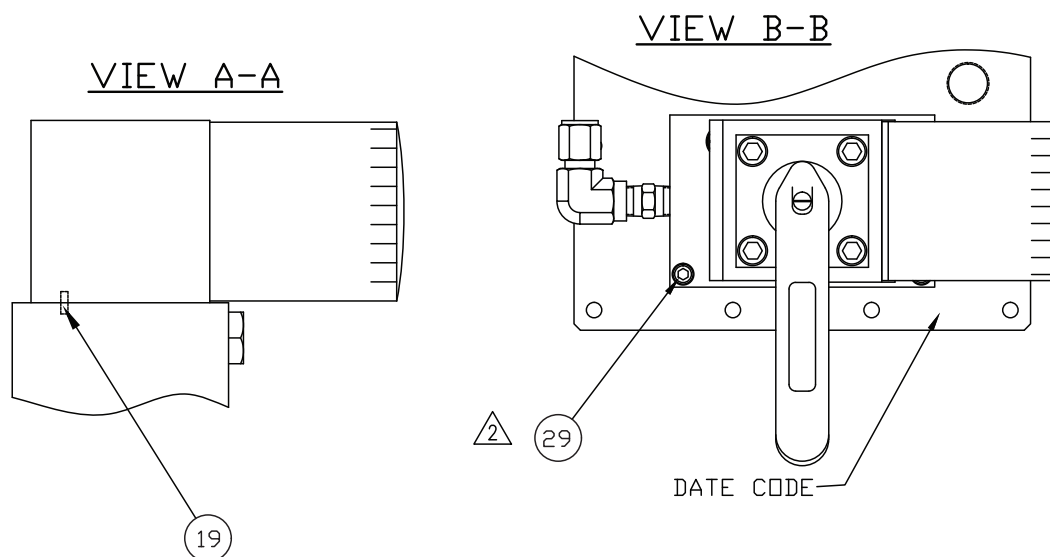
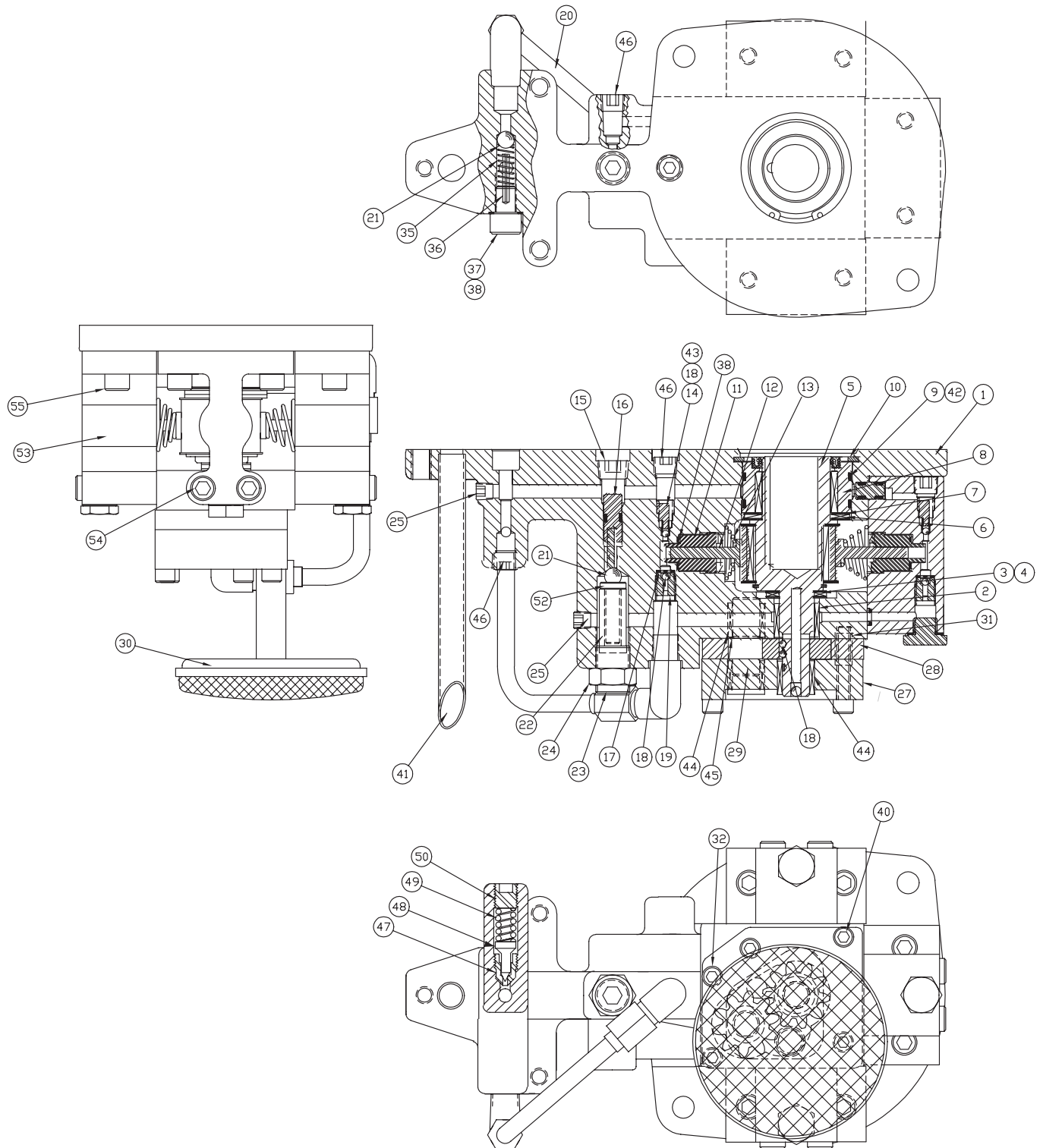
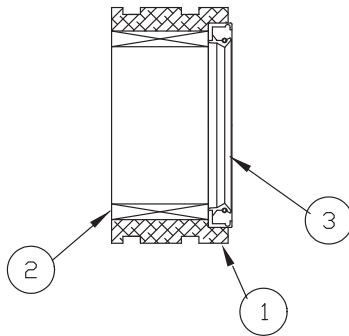


Figure 4 - 43819SR Pump Assembly



Repair Parts List (Refer to figure 4)							
Item	Part Number	Qty.	Description	Item	Part Number	Qty.	Description
1	43769E	1	Pump Body 2 Piston	28	68848E	1	Gear Set
2	68360E	1	Bearing, Roller	29	68850E	1	Shaft-Idler
3	66033E	1	Thrust Bearing	30	★	1	Screen
4	66474E	2	Thrust Washer	31	68894E	2	Tube-Guide .11
5	(See Fig. 7)	1	Eccentric Shaft Assembly	32	68255E	4	SHCS 1/4-28 x 1-3/4"
6	66106E	1	Thrust Bearing	34	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	68909E	1	Adaptor .255 Dia.	39	43673E	1	Spring Cap Unload Valve
12	68222E	1	Piston .255 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	81093E	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	53	(See Fig. 8)	1	Piston Blk .255
23	43674E	1	Set Screw Unloading Valve	54	69392E	2	SHCS 5/16-24 x 1.75"
24	43675E	1	Hex Nut Unloading Valve	55	82687E	2	SHCS 5/16-24 x 5/8"
25	97641E	2	1/16 Soc Pipe Plug	N/S	6028096E	1	Air Muffler
27	68849E	1	Plate-Bottom				
★ Included in 54177K Repair Kit. ▲ Included in 55057K Relief Kit. N/S = Not Shown.							

Figure 5 - 68829SR Adapt-Shaft Assembly

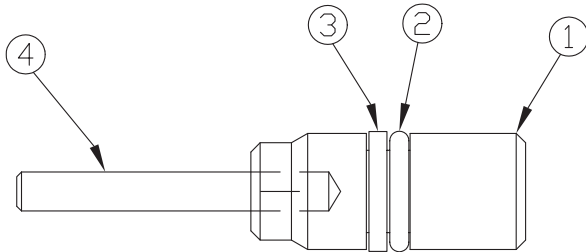


Repair Parts List (Refer to figure 5)

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

★Included in Repair Kit 54177K.

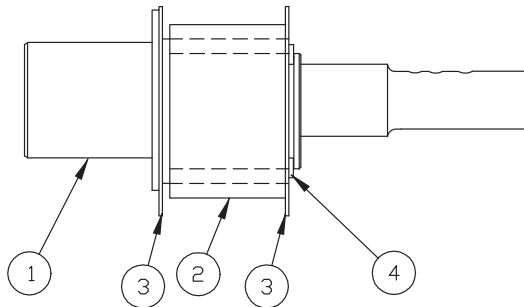
Figure 6 - 43766SR Unloading Piston Assembly



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

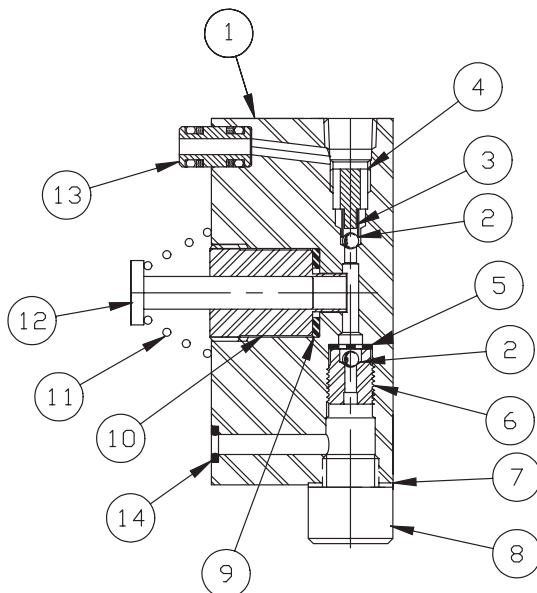
Figure 7 - 69211SR Eccentric Shaft Assembly



Repair Parts List (Refer to figure 7)

Item	Part Number	Qty.	Description
1	68907E	1	Eccentric Shaft
2	(See Fig. 10)	1	Eccentric Bearing Assembly
3	69475E	2	Bearing Washer
4	67863E	1	Retaining Ring
5	90548E	1	Ball

Figure 8 - 68898SR Piston Block Assembly

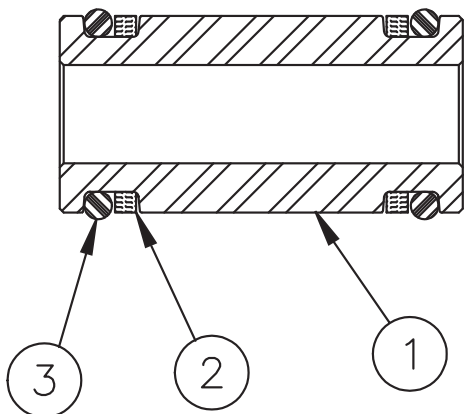


Repair Parts List (Refer to figure 8)

Item	Part Number	Qty.	Description
1	68501E	1	Piston Block, Machined
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	68909E	1	Adaptor .255 Dia.
11	68340E	1	Spring, Piston
12	68222E	1	Piston, .255 Dia.
13	68970E	1	Adapter Assy.
14	★	1	O-Ring 3/16 x 5/16"
15	81093E	1	Pipe Plug 1/8" Flush

★Included in Repair Kit 54177K.

Figure 9 - 68963SR Adapter Assembly

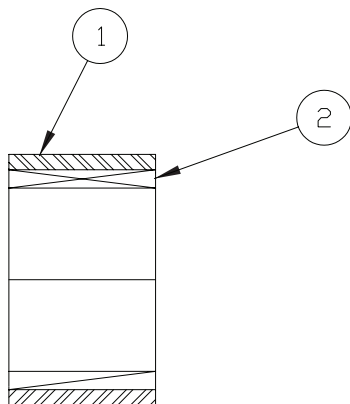


Repair Parts List (Refer to figure 9)

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.

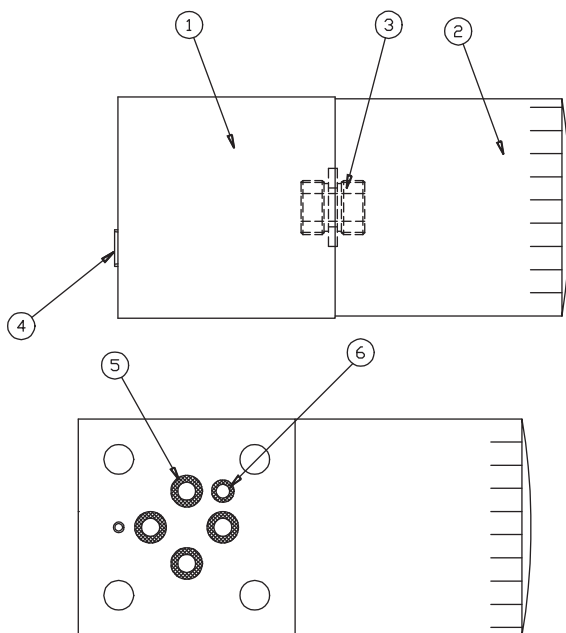
Figure 10 - 69081SR Eccentric Bearing Assembly



Repair Parts List (Refer to figure 10)

Item	Part Number	Qty.	Description
1	68218E	1	Ring, Eccentric
2	68060E	1	Bearing, Sleeve

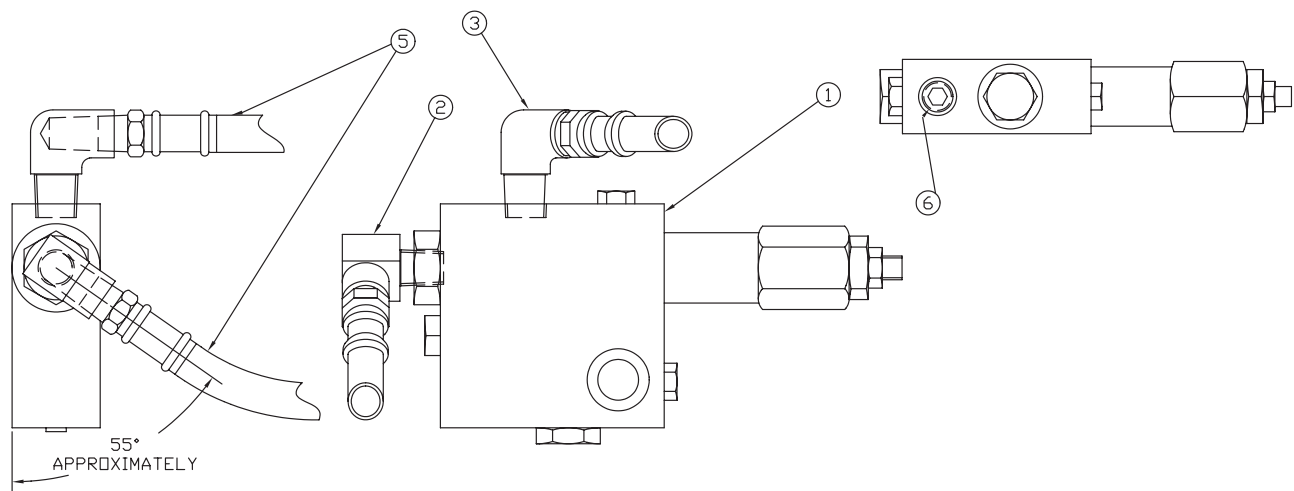
Figure 11 - 69740USR Filter Block Assembly



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"

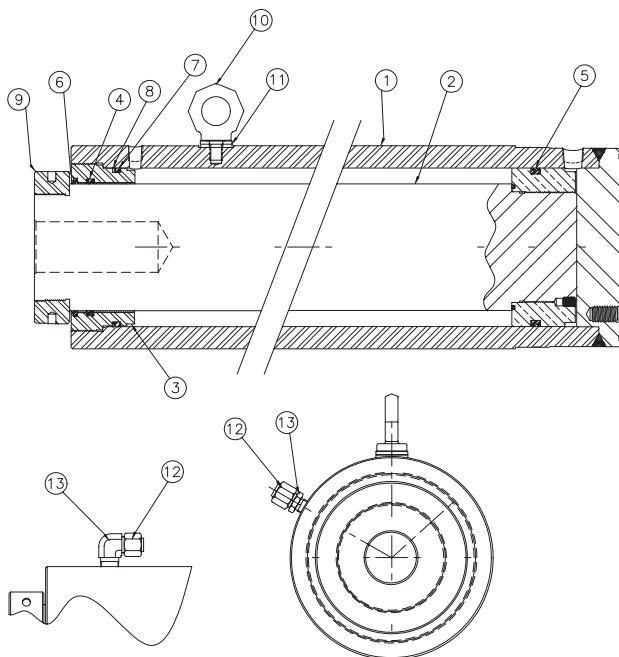
Figure 12 - 42353SR OC Valve Subassembly



Repair Parts List (Refer to figure 12)

Item	Part Number	Qty.	Description
1	69522MSR	1	O.C. Valve Asm New PR
2	18970E	1	Elbow 1/4" 90 Deg Strt
3	42352E	1	Elbow 1/4-3/8" 90 Strt
5	42354E	2	Hose 1/4 x 17" Nw PR
6	84084E	1	3/8" Pipe Plug - Flush
N/S = Not Shown.			

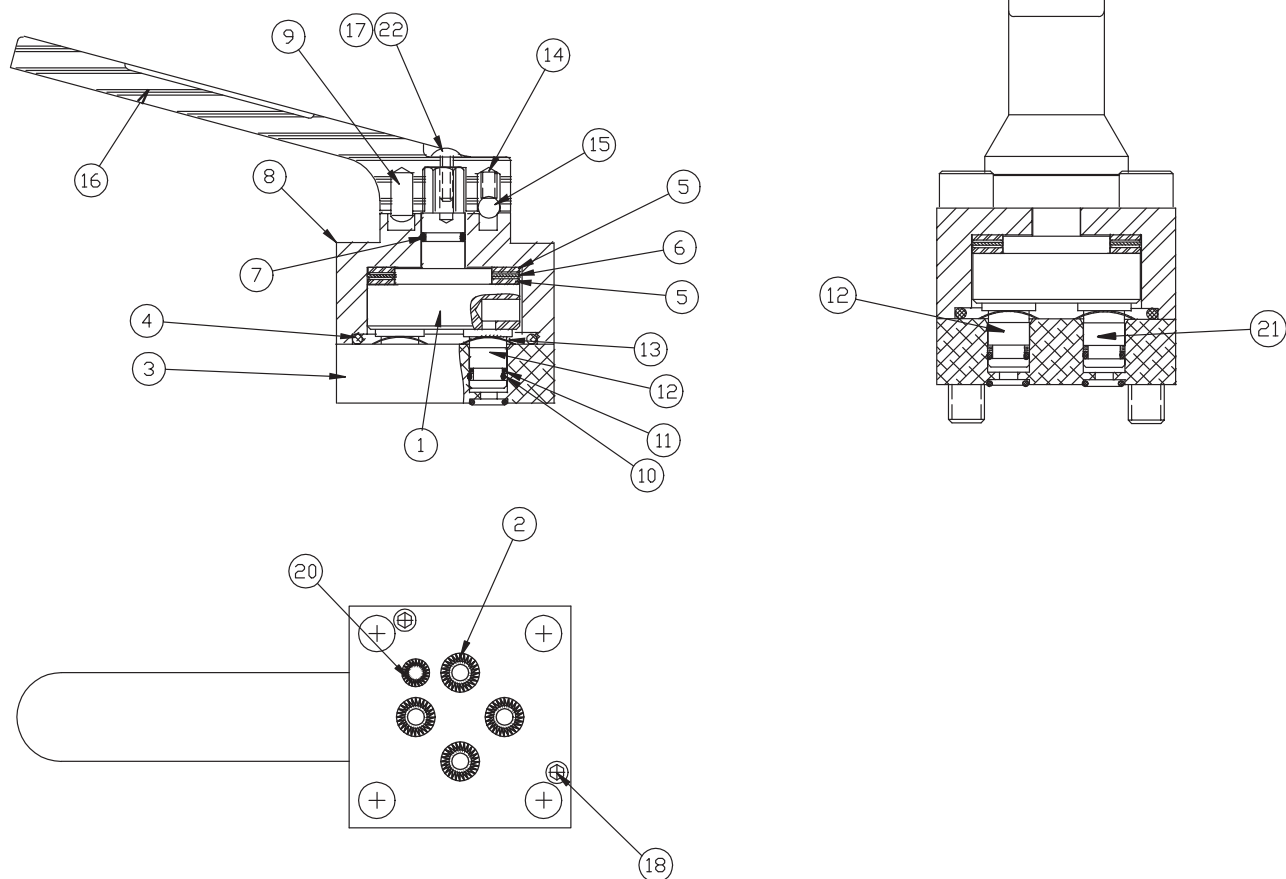
Figure 13 - 42330SR, 42435SR Cylinder Assembly



Repair Parts List (Refer to figure 13)

Item	Model PRAMA06014L Asm. 42330SR	Model PRAMA06027L Asm. 42435SR	Qty.	Description
1	42290E	42429E	1	Cylinder Weldment
2	42329SR	42427SR	1	Piston Rod Asm.
3	42411E	42411E	1	60 Ton Head Gland
4	*	*	1	T-Seal Rod 4" Dia
5	*	*	1	T-Seal Piston 5-1/4
6	*	*	1	Wiper 4" Rod Dia
7	*	*	1	O-Ring 5" x 5-1/4"
8	*	*	1	B-U Washer
9	41925E	41925E	1	Ring
10	N/A	43308E	1	Swivel Eye Bolt 1/2"
11	N/A	44888E	1	Washer Eyebolt
12	45664E	45664E	1	O-Ring Face Seal Plug
13	44865E	45666E	1	O-Ring Ftg, 3/8" NPT
* Included in 54401K Repair Kit. N/A = Not Available.				

Figure 14 - 69101SR 4-Way Manual Valve Subassembly

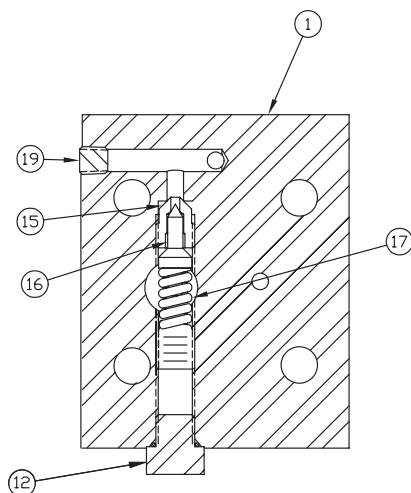
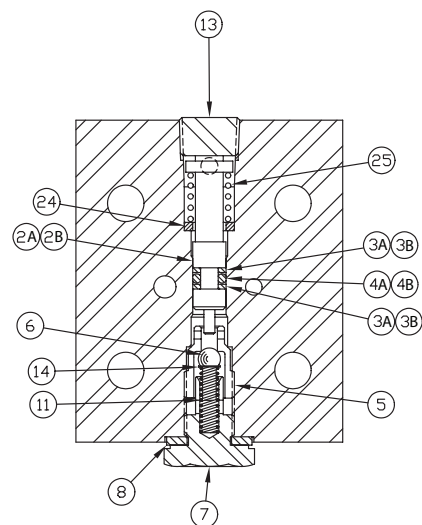


Repair Parts List (Refer to figure 14)

Item	Part Number	Qty.	Description	Item	Part Number	Qty.	Description
1	43762E	1	Valve Rotor	12	68029E	1	Seal
2	●	4	O-Ring	13	68028E	3	Spring Washer
3	68180E	1	Subplate - Valve	14	68025E	1	Detent Spring
4	●	1	O-Ring	15	92549E	1	Ball
5	68026E	2	Thrust Washer	16	69091E	1	Valve Handle
6	68155E	1	Thrust Bearing	17	44595E	1	Screw
7	●	1	O-Ring	18	85317E	2	Screw
8	69135E	1	Upper Valve Block	N/S	93598E	4	Screw
9	93804E	1	Drive Lok Pin	20	5602008E	1	O-Ring
10	●	3	O-Ring	21	68181E	2	Seal
11	●	3	Washer	22	Y0010765E	1	Lockwasher

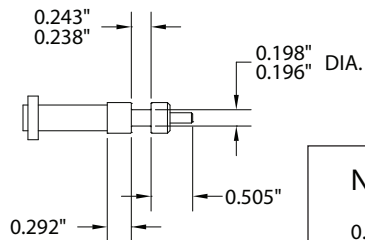
N/S = Not Shown. ● Included in Valve Kit 54490K.

Figure 15 - 42480SR Locking Valve Subassembly (with relief)



SPOOL AND SEAL REPLACEMENT INFORMATION

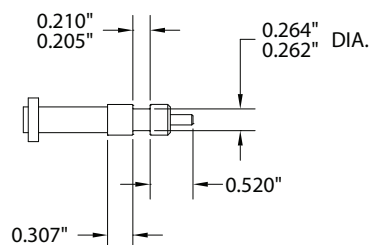
OLD DESIGN - ITEM 2A



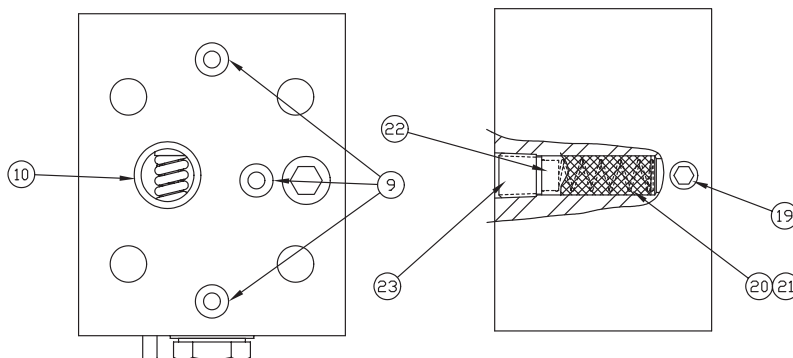
IMPORTANT: Use items 3A and 4A with OLD design spool, item 2A.

IMPORTANT: Use items 3B and 4B with NEW design spool, item 2B.

NEW DESIGN - ITEM 2B



Note: Old design spool (2A) must be replaced with new design spool (2B) if it is worn or damaged. Old design spool (2A) is no longer available.

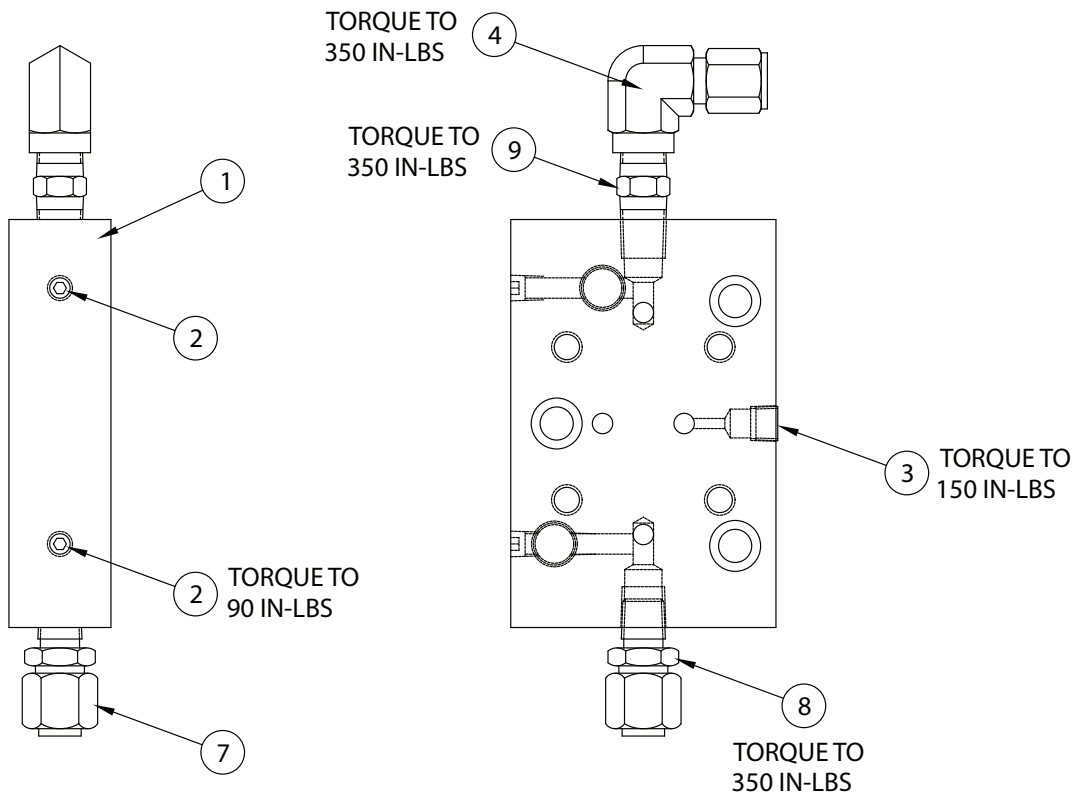


Repair Parts List (Refer to figure 15)

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

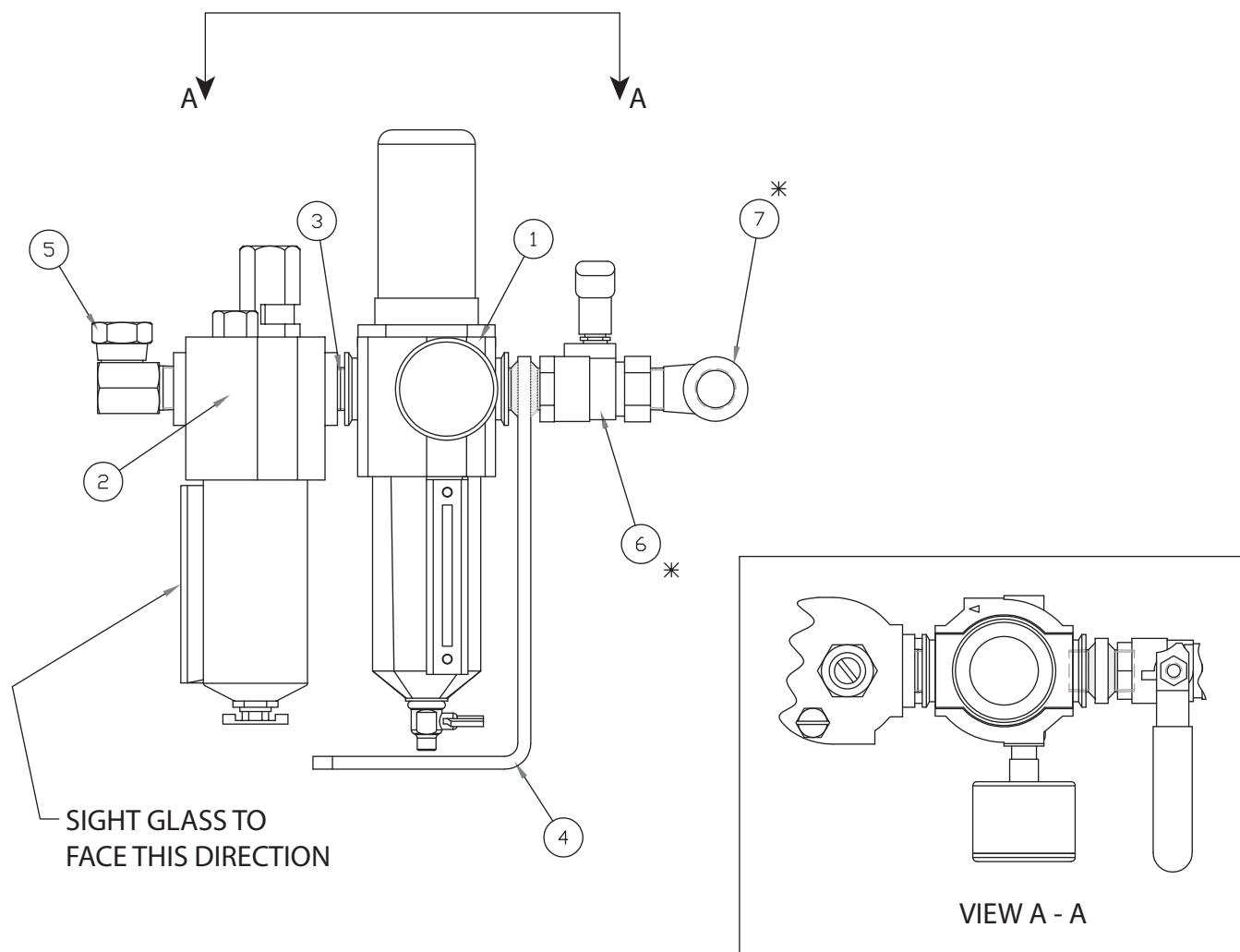
Figure 16 - 69749SR Manifold Assembly



Repair Parts List (Refer to figure 16)

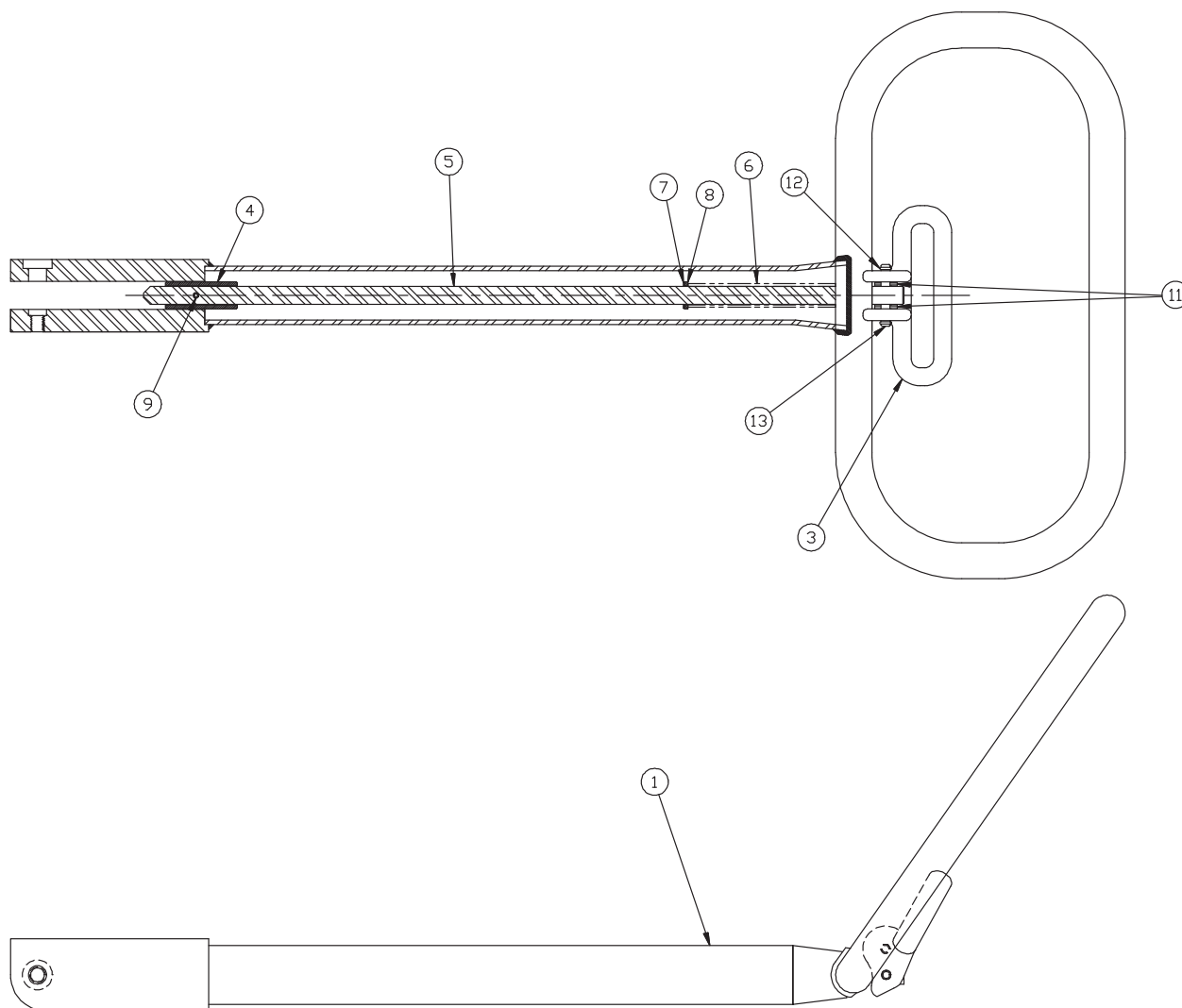
Item	Part Number	Qty.	Description	Item	Part Number	Qty.	Description
1	69429E	1	Manifold Pow'r Riser	7	45664E	1	O-Ring Face Seal Plug
2	40049E	2	1/16" Pipe Plug - Flush	8	45663E	1	O-Ring Face Tube Ftg 1/4"
3	81093E	1	Pipe Plug 1/8" Flush	9	4100067E	1	Nipple 1/4"
4	43166E	1	Elbow 90 3/8 - 1/4"				

Figure 17 - 41762SR Filter Lube Assembly



Repair Parts List (Refer to figure 17)			
Item	Part Number	Qty.	Description
1	DS1018118E	1	Air Filter
2	86242E	1	Air Lubricator
3	69998E	1	Pipe Nipple
4	42511E	1	Bracket/Nipple Weldment
5	41763E	1	Swivel Male 1/2 NPTF
6	85851E	1	Air Valve
7	86244E	1	Street Elbow

Figure 18 - 41961SR Upper Handle Assembly



Repair Parts List (Refer to figure 18)

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				