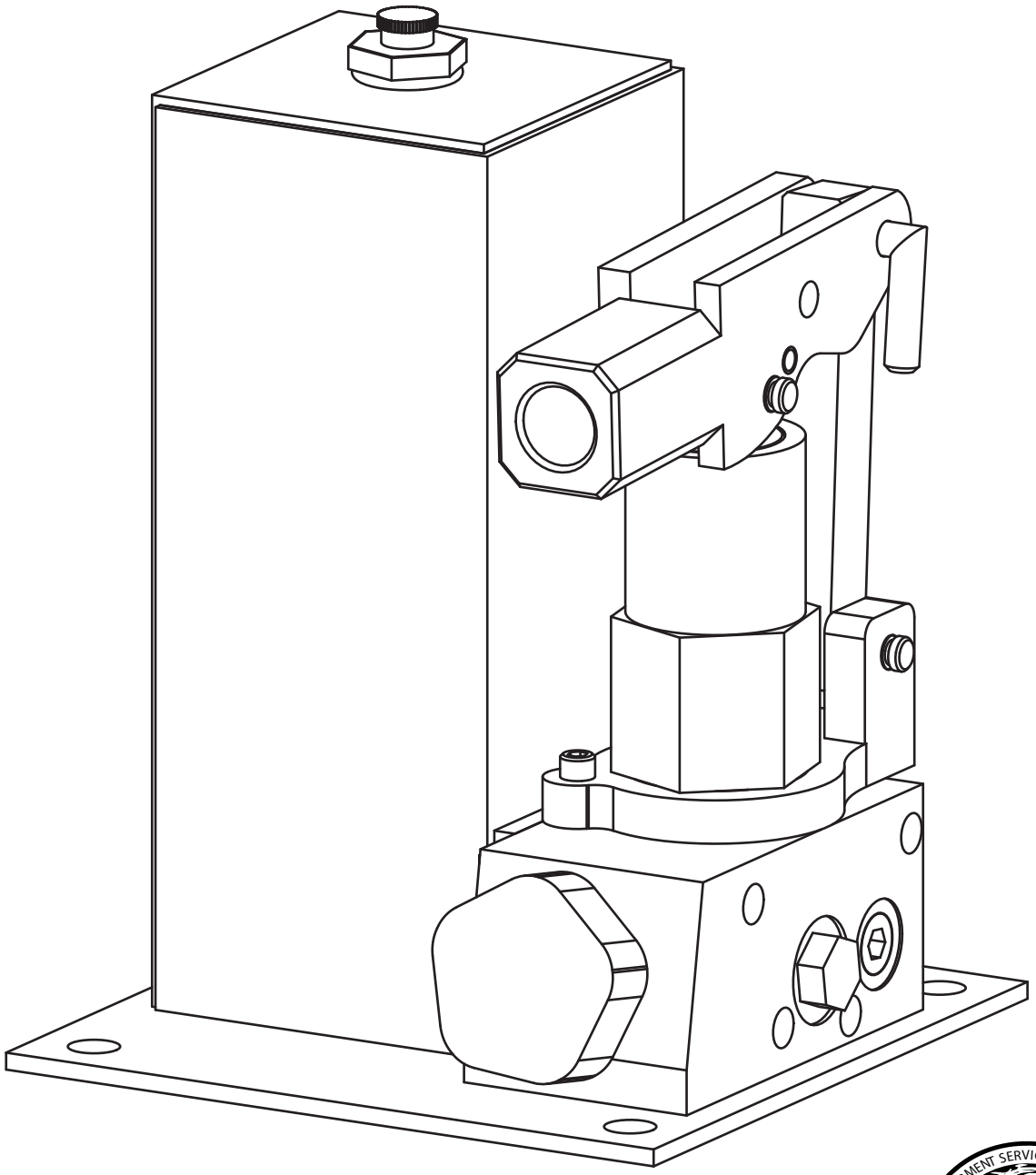
SIMPLEX®
A Division Of Templeton, Kenly & Co., Inc.

P160A SERIES PUMP
REPAIR PART SHEET

PART SHEET #': 54449
REV. A
08/05



EQUIPMENT SERVICE ASSOCIATION
ESA
REBUILDERS OF TOOLS & EQUIPMENT
USA MEMBER CANADA

P160A SERIES HAND PUMPS

CAUTION: READ THESE INSTRUCTIONS PRIOR TO OPERATING THE PUMP

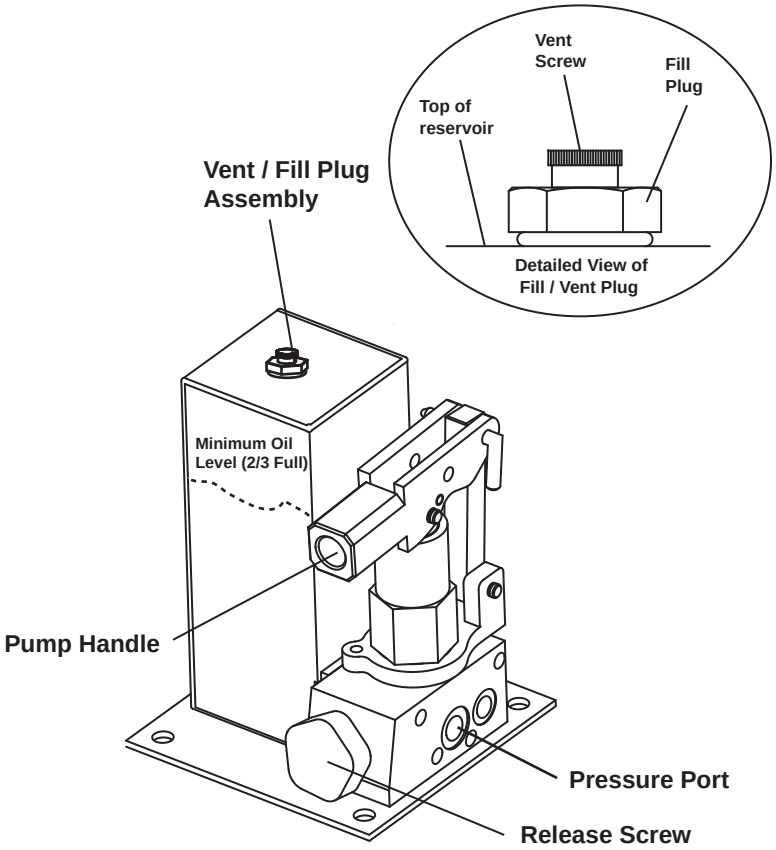
OPERATING INSTRUCTIONS

1. Open FILL PLUG of the hand pump and check OIL LEVEL in the reservoir. The reservoir should be approximately 2/3 FULL. Use a clean wooden dip stick to check oil level. Only use SIMPLEX Hydraulic Fluid.

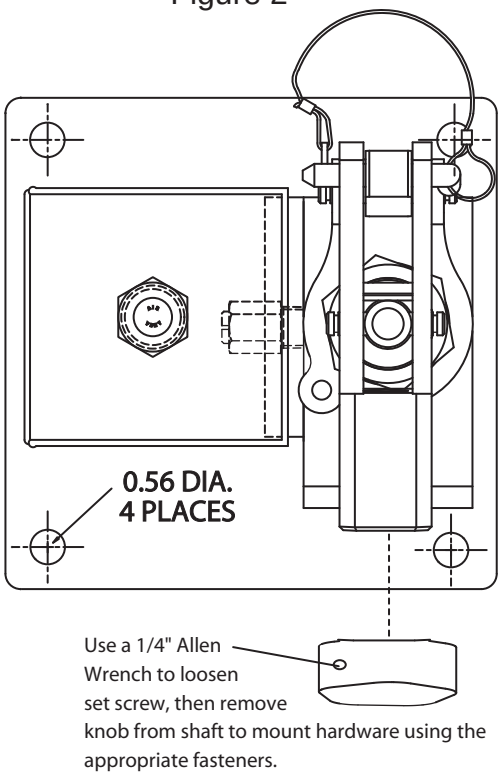
2. Close fill plug and open AIR VENT approximately one full turn. Remove 3/8" pipe plug from outlet port of the pump. Connect pressure line to cylinder or system and to the outlet of the pump. (pressure port). Refer to figure two(2) for mounting hole sizing and procedure.

3. BLEED AIR from system by opening the release screw and by operating the PUMP HANDLE approximately 12 TIMES through full stroke. Close the release screw. Actuate sufficiently to raise the cylinder at least one half stroke (make sure that the hand pump is higher then the cylinder). Then by opening the release screw and retracting the cylinder, all air trapped in the connecting line and cylinder should be completely expelled

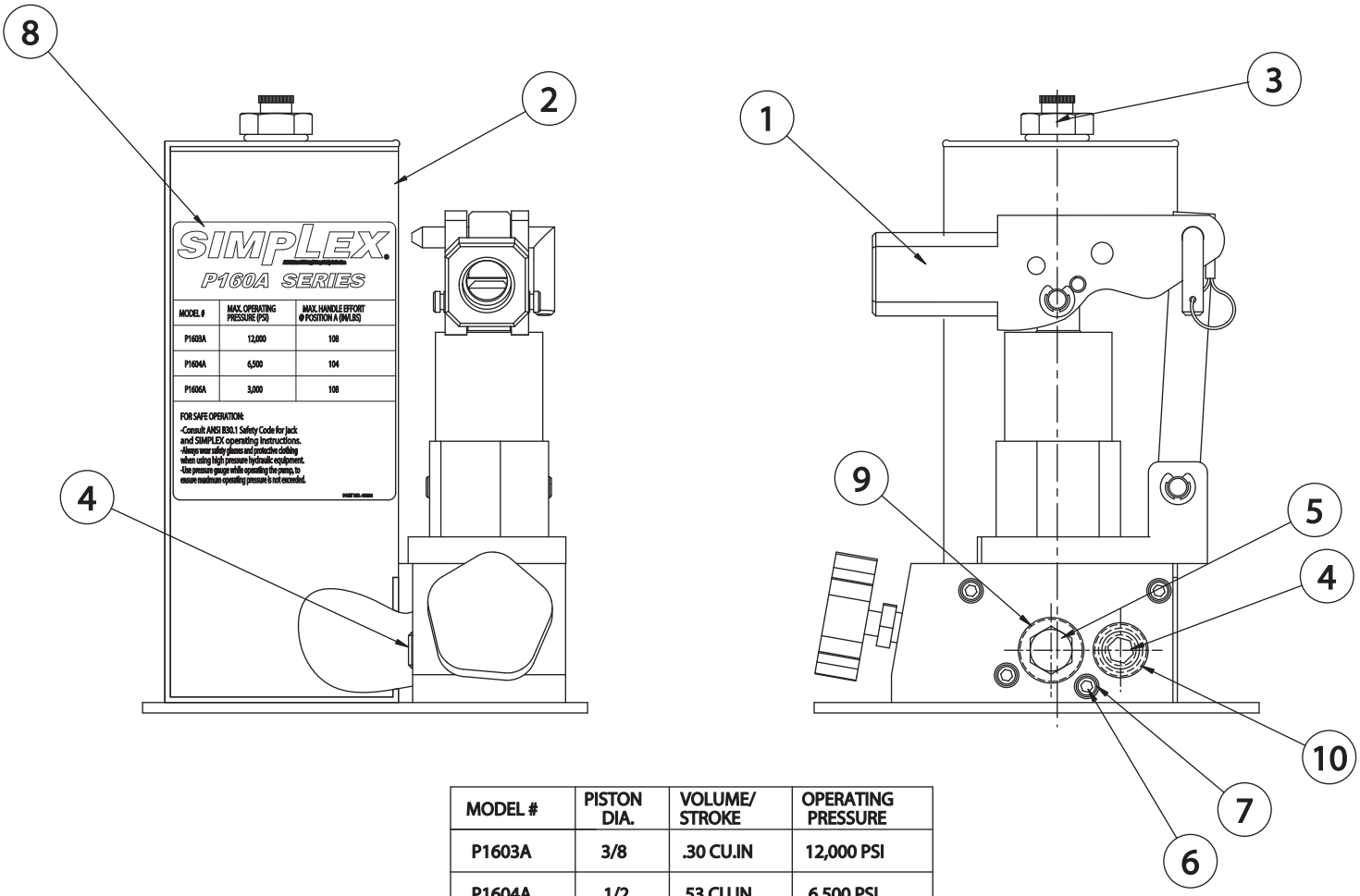
4. The RELEASE SCREW must be FULLY TIGHTENED for RAISING THE LOAD and HOLDING PRESSURE. To RELEASE PRESSURE or lower the load from the cylinder or hydraulic system, OPEN the RELEASE SCREW to allow oil to return to the reservoir.



Mounting Procedure
Figure 2



P160A SERIES HAND PUMPS

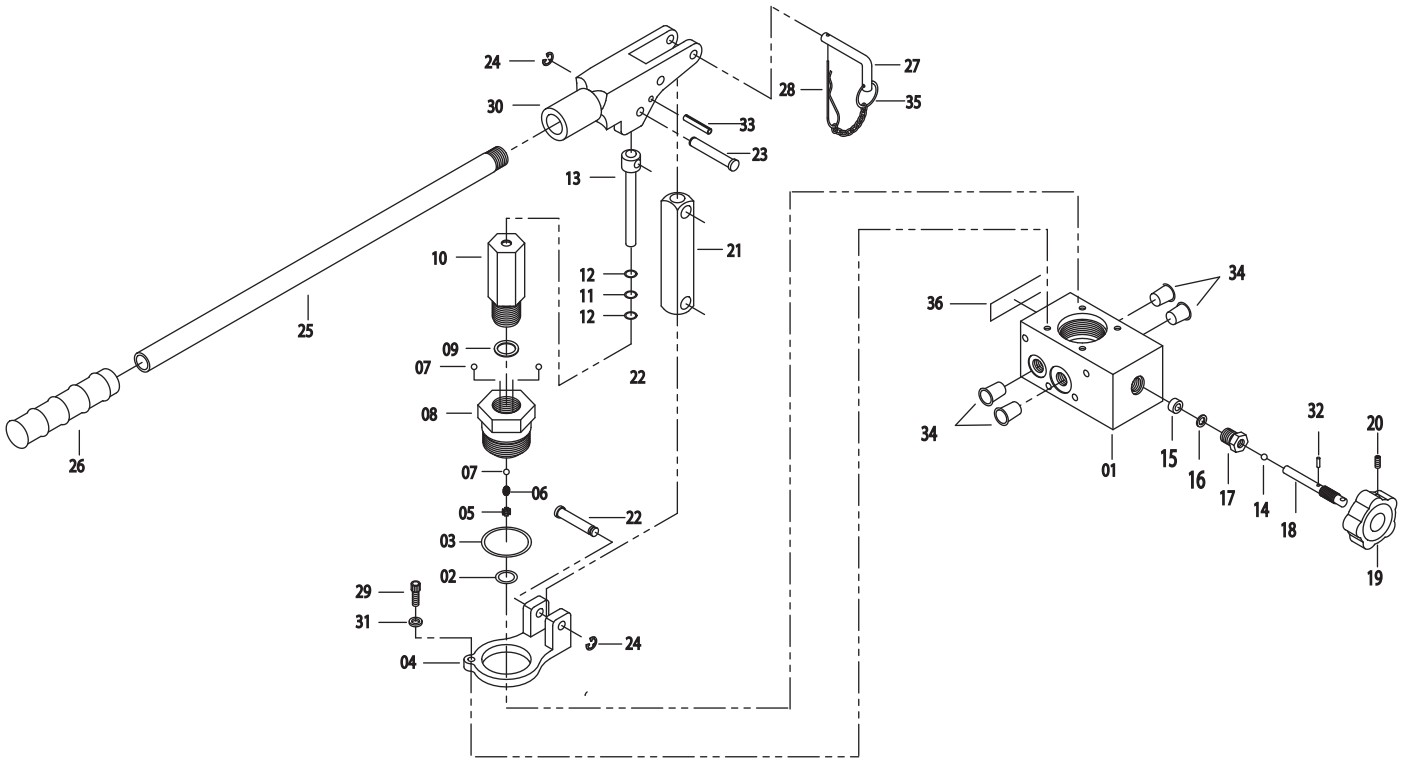


MODEL #	PISTON DIA.	VOLUME/ STROKE	OPERATING PRESSURE
P1603A	3/8	.30 CU.IN	12,000 PSI
P1604A	1/2	.53 CU.IN	6,500 PSI
P1606A	3/4	1.33 CU.IN	3,000 PSI

ITEM	DESCRIPTION	P1603A	P1604A	P1606A	QTY
01	HAND PUMP ASSEMBLY	45194	45195	45196	1.00
02	RESERVOIR WELDMENT	45814	45814	45814	1.00
03	BREATHER ASSEMBLY	69107	69107	69107	1.00
04	PIPE PLUG 3/8" FLUSH	84084	84084	84084	2.00
05	MODEL DECAL P160A SERIES	45831	45831	45831	1.00
06	SHCS 1/4-20 X 2.5 LG.	45606	45606	45606	4.00
07	LOCK WASHER 1/4	93941	93941	93941	4.00
08	SIMPLEX LOGO	88186	88186	88186	1.00
09	O-RING 1X1 3/16	*	*	*	1.00
10	O-RING 3/4X15/16	*	*	*	1.00
11	HEX ST. PIPE PLUG 3/8 NPTF	87145	87145	87145	1.00
	REPAIR KIT				

(= CONTENS, ALSO LISTED ON PAGE 4)*

P160A SERIES HAND PUMPS



ITEM	PART # P10003A	PART # P10004A	PART # P10006A	DESCRIPTION	QTY
01	6045065	6045065	6045065	Pump Block Manifold	1
02	*	6067006	6067006	O-Ring	1
03	*	6045066	6045066	O-Ring	1
04	6045067	6045067	6045067	Link Swivel	1
05	6045055	6045055	6045055	Bypass Screw	1
06	6045068	6045068	6045068	Spring	1
07	6045053	6045053	6045053	Check Ball	3
08	6045069	6045069	6045069	Check Valve	1
09	*	6045070	6045070	Brass Washer	1
10	6045071	6045091	6045093	Pump Housing	1
11	*	6067021	6045094	Back-Up Ring	1
12	*	6067020	6045095	O-Ring	2
13	6045074	6045092	6045096	Piston	1
14	6045075	6045075	6045075	Check Ball	1
15	*	6067037	6067037	Oil Seal	1
16	6045029	6045029	6045029	Washer	1
17	6067038	6067038	6067038	Packing Nut	1
18	6045076	6045076	6045076	Release Valve Bolt	1
19	6045077	6045077	6045077	Release Knob	1

ITEM	PART # P10003A	PART # P10004A	PART # P10006A	DESCRIPTION	QTY
20	6045078	6045078	6045078	Set Screw	1
21	6045079	6045079	6045079	Link	1
22	6045080	6045080	6045080	Pin	1
23	6045081	6045081	6045081	Pin	1
24	*	6067026	6067026	Retaining Ring	2
25	6045082	6045082	6045082	Handle	1
26	6067025	6067025	6067025	Handle Grip	1
27	6045083	6045083	6045083	L-Pin	1
28	6045084	6045084	6045084	Hair Cotter Pin	1
29	6045085	6045085	6045085	Screw	1
30	6045086	6045086	6045086	Yoke Assy.	1
31	6045087	6045087	6045087	Spring Washer	1
32	6045031	6045031	6045031	Pin	1
33	6045088	6045088	6045088	Pin	1
34	6045089	6045089	6045089	Cap	4
35	6045090	6045090	6045090	Connecting Chain	1
36	6045106	6045106	6045106	Decal	1
	54437	54438	54439	Seal Kit (* = contents)	1

SERVING INDUSTRY WITH PRIDE
SIMPLEX
SINCE - 1899
Templeton Kenly & Co., Inc.
QUALITY

SIMPLEX products are warranted to be free of defects in materials and workmanship under normal use for as long as the original purchaser owns them, subject to the guidelines and limitations listed. This warranty does not cover: normal wear & tear, cosmetic items, abuse, overloading, alterations, improper fluid, or use in a manner for which they are not intended. If the customer believes a product is defective, the product must be delivered, or shipped freight prepaid, to the nearest SIMPLEX Authorized Service Center for evaluation and repair.

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