POWER TEAM
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Form No. 101894

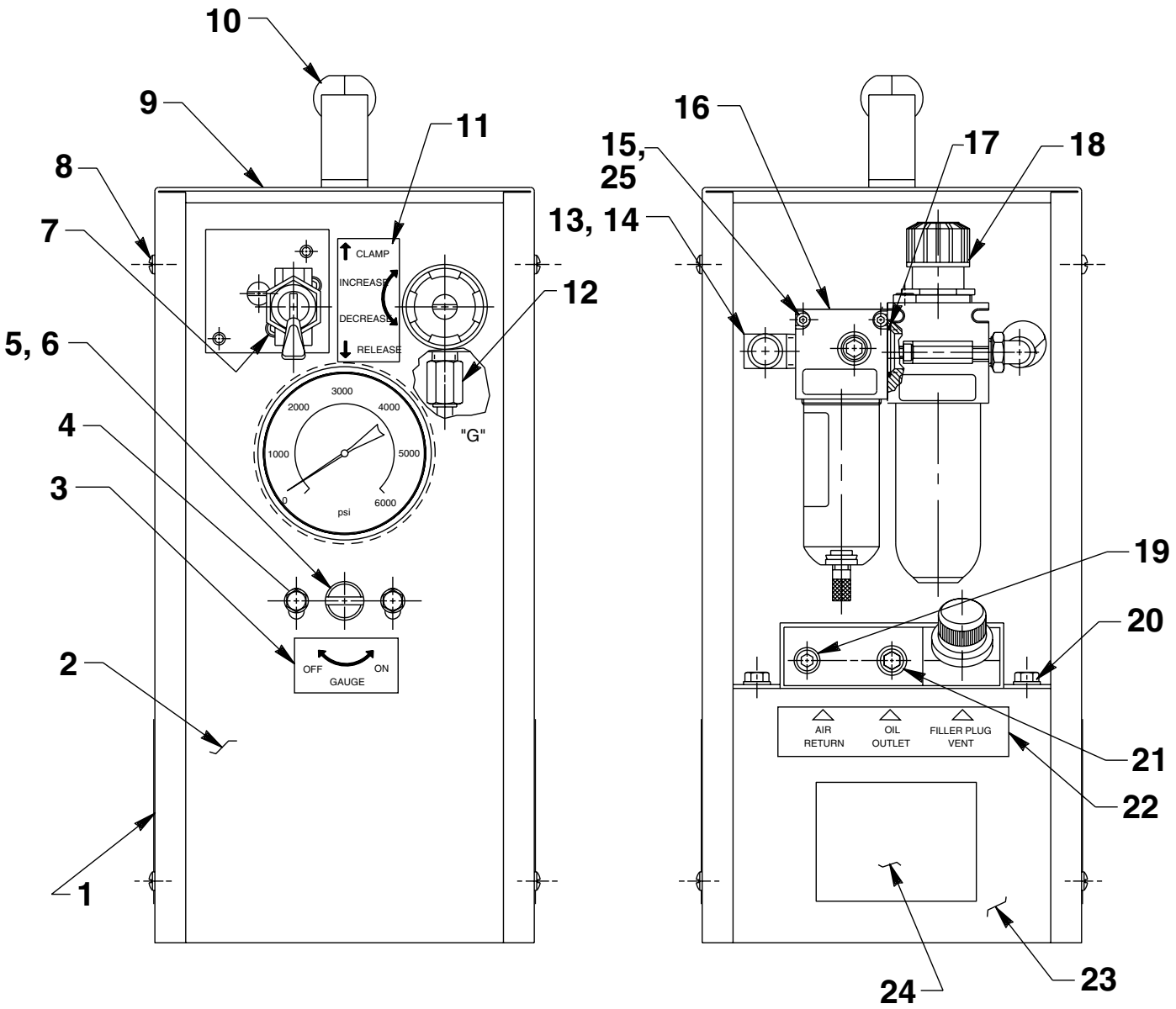
Parts List for:

100180

MODEL G

AIR/HYDRAULIC TWO-STAGE BOOSTER-PAC®

Rated Cpacity: 4,475 PSI at 125 PSI Air Max.



Sheet No.	**1 of 4**
Rev. 4	**Date: 28 Apr. 1999**

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Item No.	Part No.	No. Req'd	Description
1	**211638**	2	Trade Name Decal
2	**42626PU2**	1	Front Panel
3	**15407**	1	Decal
4	**15416**	2	Cap Screw (#10-24 X 3/4 Lg.)
5	**200685**	1	Knob
6	**10132**	1	Set Screw (8-32 UNC X 1/4 Lg.; Apply Loctite)
7	**17094**	2	Cap Screw (8-32 UNC X 5/8 Lg.)
8	**14394**	8	Screw (10-16 X 3/8 Lg.)
9	**50700WH2**	1	Top Cover
10	**41756**	2	Half Handle Grip
11	**203134**	1	Pump/Release Decal
12	**251054**	1	Straight Fitting
13	**15373**	1	Elbow
14	**14794**	1	Plastic Cap
15	**252064**	2	Cap Screw (#8-32 UNC X 1-3/4 Lg.)
16	**351109**	1	Filter Ass'y
17	**10273**	1	O-ring (13/16 X 5/8 X 3/32)
18	**252030**	1	Air Lubricator
19	**10427**	3	Pressure Plug (1/8 NPTF)
20	**211060**	6	Screw (#9-15 X 1" Lg.; Torque to 25/30 in. lbs.)
21	**10479**	1	Pipe Plug
22	**15408**	1	Decal
23	**58775PU2**	1	Back Panel
24	**350492**	1	Decal
25	**10240**	2	Lockwasher

PARTS INCLUDED BUT NOT SHOWN

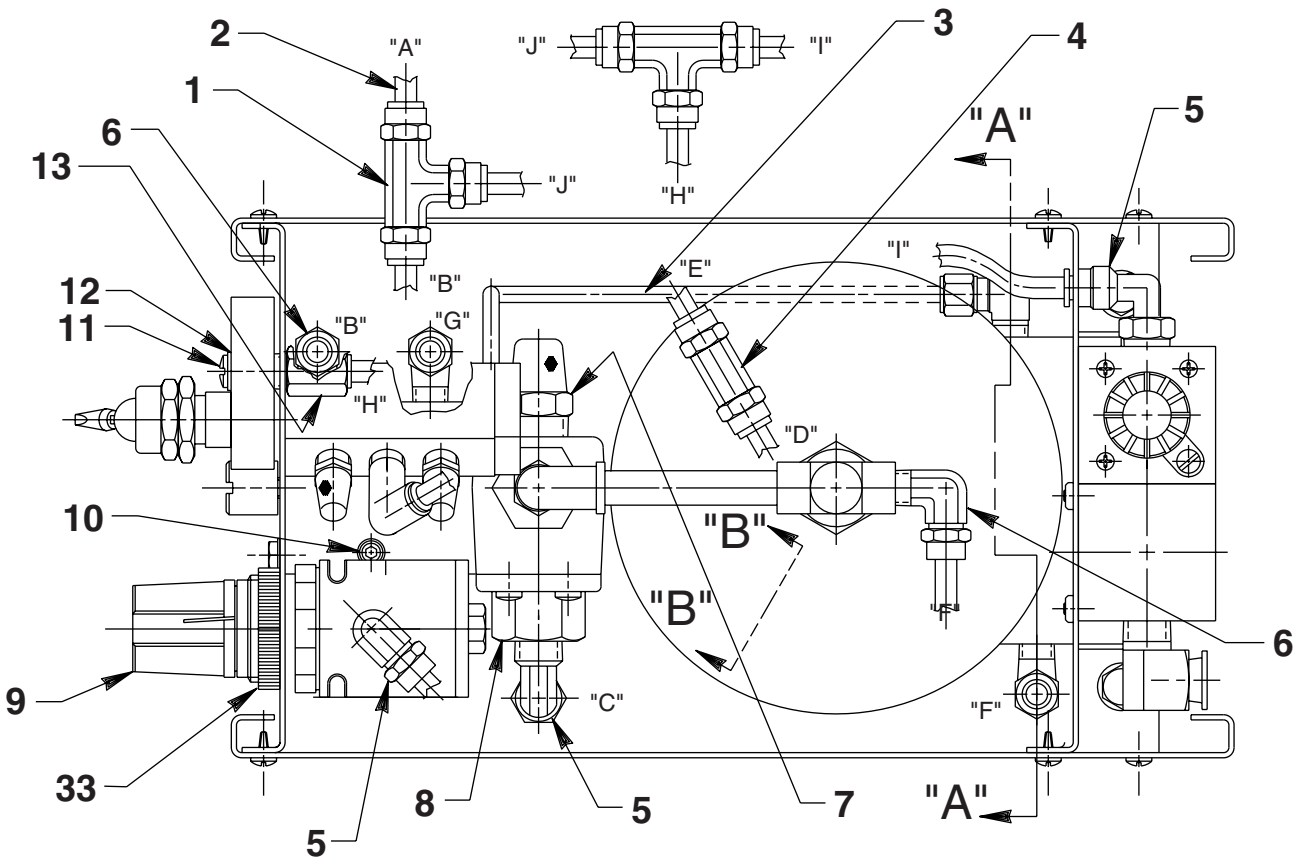
211060	4	Screw (#9-15 X 1" Lg.; Torque to 25/30 in. lbs.; For pump mounting purposes only)

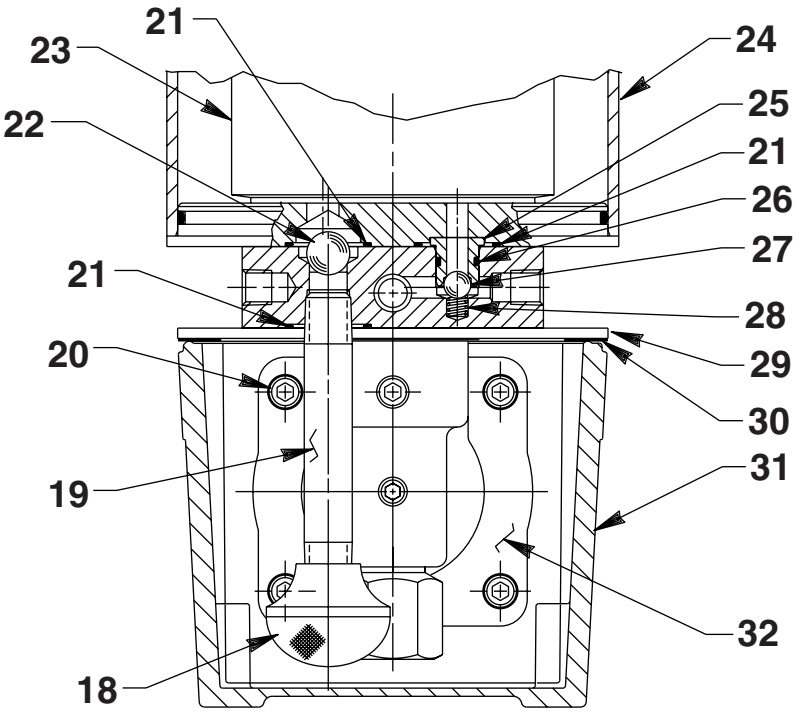
Refer to any operating instructions included with this product for detailed information about operation, testing, disassembly, reassembly, and preventive maintenance.

Items found in this parts list have been carefully tested and selected. **Therefore: Use only genuine Hytec replacement parts!**

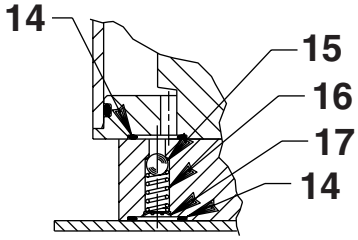
Additional questions can be directed to our Technical Services Department.

TOP & END VIEW





SECTION "A-A"



SECTION "B-B"

Item No.	Part No.	No. Req'd	Description
1	**15684**	2	Union
2	**14726**	AR	Tubing
3	**200404**	1	Oil Line
4	**250741**	1	Tee Fitting
5	**15457**	3	Elbow
6	**250463**	4	90° Elbow Fitting
7	**15459**	1	Muffler
8	**15007**	1	Quick Exhaust Valve
9	**252033**	1	Air Regulator
10	**14423**	2	Cap Screw (#10-24 X 2" Lg.; Torque to 45/55 in. lbs.)
11	**12909**	1	Machine Screw (#10-32 UNF X 1/4 Lg.)
12	***14319**	1	Copper Washer (5/16 X 3/16 X 1/32)
13	**215180**	1	Male Connector (Do not overtighten, snug fit is sufficient)
14	***11284**	2	O-ring (11/16 X 9/16 X 1/16)
15	***10375**	1	Steel Ball (1/4 Dia.; Seat at assembly)
16	***15691**	1	Compression Spring (1/4 O.D. X 5/8 Lg.)
17	**12041**	1	Retaining Ring (5/16 hole)
18	**15417**	1	Suction Line
19	**15426**	1	Pipe Nipple (Note: Wire brush and polish threads this end only and assemble Item#18.)
20	**17428**	4	Cap Screw (1/4-20 UNC X 3-1/2 Lg.; Torque to 85/95 in. lbs. oiled; Note: Cross torque in increments of 30 in. lbs.)
21	***10304**	3	O-ring (1" X 7/8 X 1/16)
22	***15005**	1	Steel Ball (9/16 Dia.; Seat at assemby)
23	**50698**	1	Piston Housing
24	**35225**	1	Cylinder Tube
25	**200338**	1	Flange Set
26	***13943**	1	O-ring (1/2 X 3/8 X 1/16)
27	***10377**	1	Steel Ball (5/16 Dia.; Seat at assembly)
28	***14070**	1	Compression Spring (1/4 O.D. X 3/8 Lg.)
29	**421245WH2**	1	Cover Plate
30	***33853**	1	Reservoir Gasket
31	**61243**	1	Reservoir
32	**64767**	1	Pump Body
33	**16614**	1	Panel Nut

Part numbers marked with an asterisk (*) are contained in Repair Kit No. 300967.
AR= As Required (Order length of tubing as needed according to the chart below).

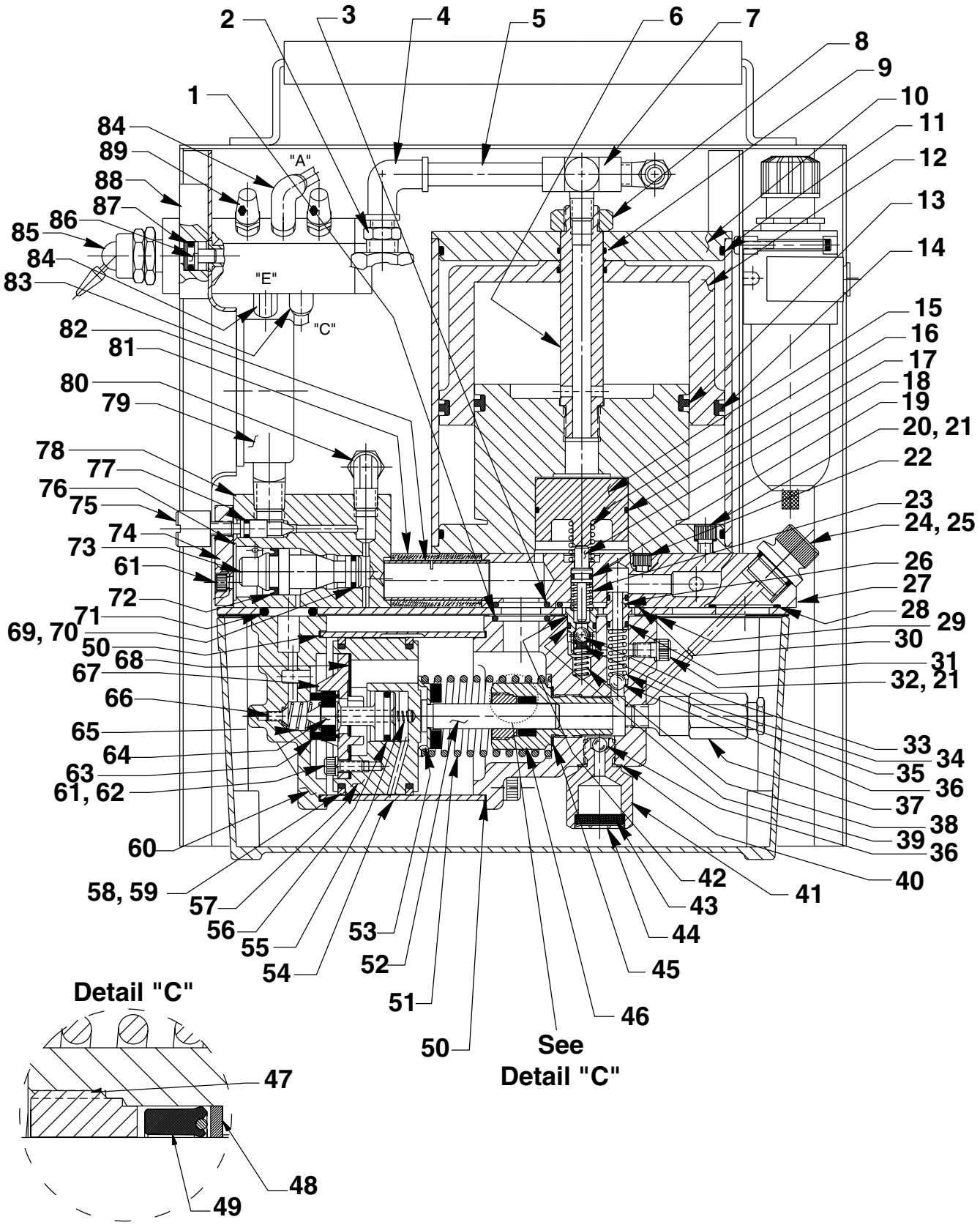
SERVICE INSTRUCTIONS FOR TUBE HOOK-UP

The assembly drawings on sheet 2 of 3 and 3 of 3 provide a cut-away view of all tube hook-ups for repair and reassembly. A hook-up is indicated between a corresponding set of parts by their matching letters. For example, "A" connects with "A", "B" connects with "B, and so forth. The appropriate length of tubing used on the hook-ups is shown in the table below.

TUBING LENGTH

Length	Location
1-3/4"	"B" - "B"
2-1/2"	"J" - "J"
5"	"I" - "I" & "E" - "E"
5-1/2"	"H" - "H"
6"	"A" - "A"
6-1/2"	"G" -"G"
7-3/4"	"D" - "D"
8-3/4"	"F" - "F"
9"	"C" - "C"

SIDE VIEW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"A"
"C"
"E"
Detail "C"
See Detail "C"

Parts List, Form No. 101894, Back sheet 3 of 4

Item No.	Part No.	No. Req'd	Description
1	*10272	1	O-ring (3/4 X 9/16 X 3/32)
2	16449	1	Nipple
3	*10276	1	O-ring (1" X 3/4 X 1/8)
4	12890	1	Elbow Fitting
5	15456	1	Straight Fitting
6	200341	1	Tube Stud (Apply Loctite)
7	14538	1	Tee
8	10394	1	Hex Nut (5/8-18 UNF)
9	*10303	2	O-ring (7/8 X 3/4 X 1/16)
10	35229	1	Cover
11	*15379	2	O-ring (4-15/16 X 4-3/4 X 3/32)
12	35227	1	Piston
13	*15381	1	T-Seal w/Ring (Smooth side of backup ring to be against seal)
14	*15380	1	T-Seal w/Ring Packing (Smooth side of backup ring to be against seal)
15	200343	1	Return Piston
16	*14960	1	Compression Spring (1/2 O.D. X 1" Lg.)
17	*14875	1	O-ring (1-5/8 X 1-1/2 X 1/16)
18	29365	1	Release Valve Button
19	*10266	1	O-ring (3/8 X 1/4 X 1/16)
20	10006	4	Cap Screw (1/4-20 UNC X 5/8 Lg.; Torqueto 90/110 in. lbs.)
21	*10442	5	Washer (3/8 X 1/4 X 1/32)
22	11151	4	Cap Screw (10-24 UNC X 1-1/4 Lg.; Torque to 90/110 in. lbs.)
23	*13944	1	Compression Spring (3/8 O.D. X 1/2 Lg.)
24	252085	1	Dipstick Assembly
25	*10273	1	O-ring (13/16 X 5/8 X 3/32)
26	34378	1	Check Valve Body
27	65124	1	Valve Body
28	*15175	1	O-ring (1-1/4 X 1-1/8 X .062)
29	*351021	1	Gasket
30	*11841	1	O-ring (1-5/8 x 1-3/8 x 1/8)
31	*12522	2	O-ring (3/8 X 1/4 X 1/16)
32	10002	1	Cap Screw (1/4-20 UNC X 3/8 Lg.; Torque to 90/110 in. lbs.)
33	*10375	1	Steel Ball (1/4 Dia.; Seat at assembly)
34	25685	1	Ball Retainer
35	*10445	1	Compression Spring (5/32 O.D. X 3/4 Lg.)
36	*10423	2	Steel Ball (9/32 Dia.)
37	21278-48	1	Relief Valve (Set at 4,900/5,300PSI. Apply loctite 592 [Power Team #905516] or equiv. & torque to 150/170 in. lbs.)
38	*14624	1	Compression Spring (1/4 O.D. X 3/4 Lg.)
39	*13943	1	O-ring (1/2 X 3/8 X 1/16)
40	*10261	1	Copper Washer (3/4 X 19/32 X 1/32)
41	48010	1	Filter Adapter (Torque to 40/50 ft. lbs. oiled)
42	34377	1	Poppet Retainer
43	214586	1	Internal Retaining Ring
44	214578	1	Filter
45	*10263	1	Copper Washer (1" X .765 X 1/32)
46	421642	1	Cylinder
47	*351662	1	Retainer (Note: See "INSTRUCTIONS FOR RETAINER REPLACEMENT" on sheet 4 of 4.)
48	*12488	1	Backup Washer
49	*253095	1	U-cup Packing
50	*17429	2	Backup Ring
51	*13938	1	Spring (1.452 O.D. X 4-7/16 Lg.)
52	28400	1	Piston
53	211082	1	Spring Guide
54	351122	1	Air Cylinder (Locate groove on upper half (top) of pump with chamfered tube end towards rear head as shown)
55	*12692	1	Spring (3/16 O.D. X 1-11/16 Lg.)
56	*211052	1	O-ring (.900 X .706 X .097)
57	52390	1	Piston Body
58	*251835	2	O-ring (2-5/16 x 2-1/8 x 3/32)
59	*14265	2	Piston Ring
60	51480	1	Rear Head
61	211054	5	Screw (#10-24 X 1/2 Lg.; Torque to 50/55 in. lbs.)
62	10241	3	Lockwasher (For #10 bolt)
63	*28183	1	Piston Poppet
64	305475	1	Exhaust Valve Stem
65	205679	1	Compression Spring (.485 O.D. X .915 Lg.)
66	205674	1	Screw (8-32 UNC X 3/8 Lg.; Torque to 12/18 in. lbs.)
67	33822	1	Piston End Plate
68	*28239	1	Gasket
69	*10268	1	O-ring (1/2 X 3/8 X 1/16)
70	208672	1	Glyd Ring
71	*251717	1	O-ring (1" x 5/8 x 3/16)
72	*15374	1	Packing
73	35230	1	Poppet
74	200340	1	End Cap
75	203135	1	Stem Gauge Saver
76	*10304	1	O-ring (1" X 7/8 X 1/16)
77	*15023	1	O-ring (5/16 X 3/16 X 1/16)
78	50699	1	Valve Body
79	17946	1	Pressure Gauge
80	11278	2	Tube Elbow
81	*29992	1	Foam Tube
82	200389	1	Muffler
83	250464	1	Straight Fitting
84	250463	3	90° Elbow Fitting
85	15376	1	Air Valve
86	203128	1	Piston Plunger
87	*16949	1	U-cup Packing
88	37186	1	Valve Body
89	15458	2	Muffler

Note: Shaded areas reflect last revision(s) made to this form.

Part numbers marked with an asterisk (*) are included in Repair Kit No. 300967.

INSTRUCTIONS FOR RETAINER REPLACEMENT

Your pump's retainer is locked into place by one of the two following methods. Determine which method was used on your pump's retainer, then follow the appropriate steps to remove the old and install and stake the new.

Method 1 - Retainer shows no sign of stake marks

1. This retainer has been locked in place with a Loctite product. To replace it, a moderate amount of heat needs to be applied to the cylinder nut (in the area of the retainer) to soften the existing Loctite allowing it to be removed.

2. Install the new retainer into the cylinder nut and torque to 80/100 in. lbs. **Note: Do not use a Loctite product this time but stake the new retainer in place according to instructions in Step 3.**

3. To lock retainer into place, use a center punch positioned in the seam between the retainer and the cylinder nut and stake the new retainer in two places approximately 180° apart.

Method 2 - Retainer has two stake marks in the seam between the retainer and the cylinder nut

1. For replacement of this retainer, the stake marks must be removed. Using a 1/8" or larger diameter drill bit, remove the existing stakes by drilling a short distance into the stake marks. Remove the retainer.

2. Install the new retainer into the cylinder nut and torque to 80/100 in. lbs.

3. To lock retainer into place, use a center punch positioned in the seam between the retainer and the cylinder nut and stake the new retainer in two places approximately 180° apart.

   NOTE: Do not stake in the old stake marks.

Note: This page added at last revision(s) made to this form.