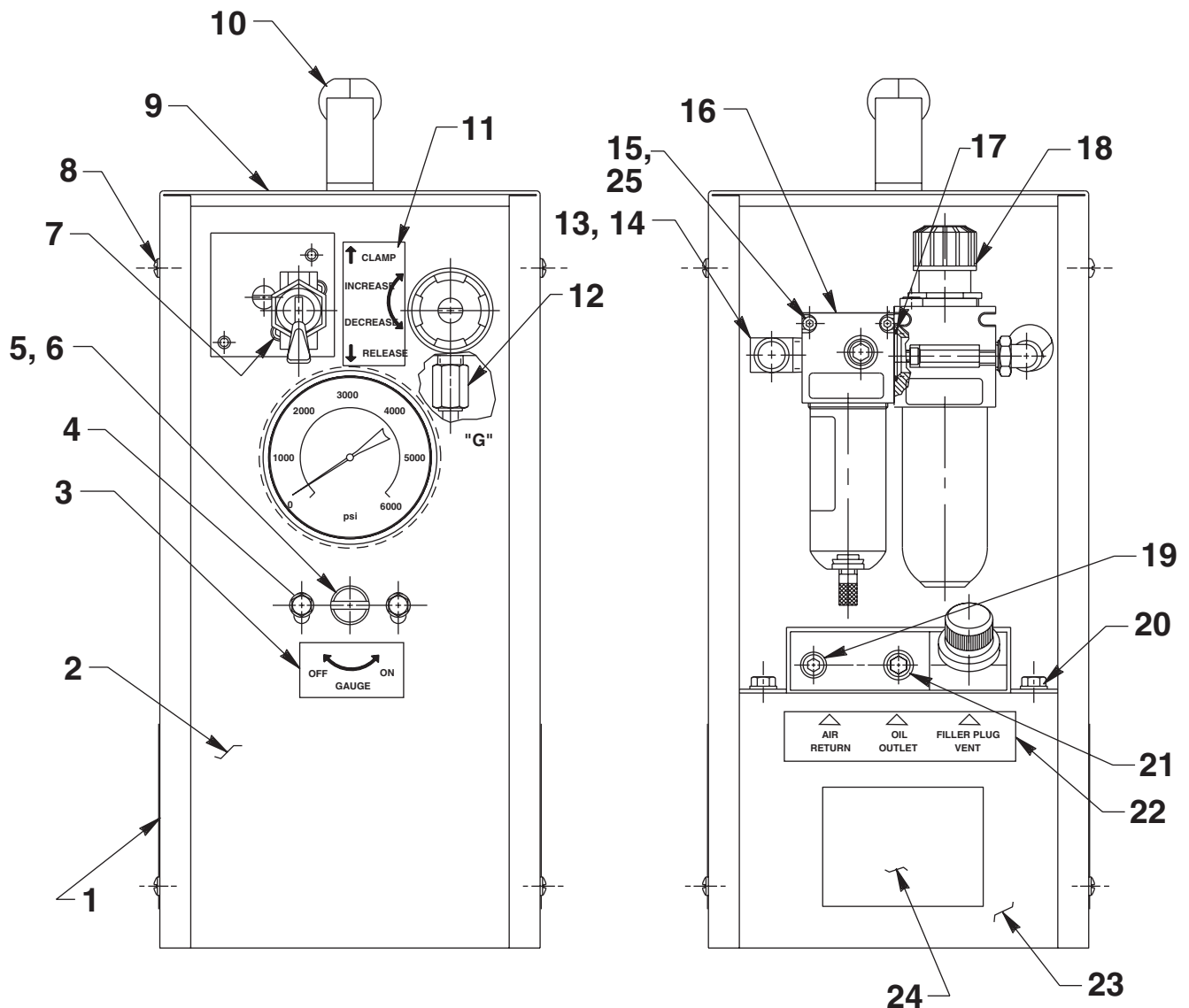


MODEL F
AIR/HYDRAULIC TWO-STAGE BOOSTER-PAC®



Parts List, Form No. 101683, Back sheet 1 of 4

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

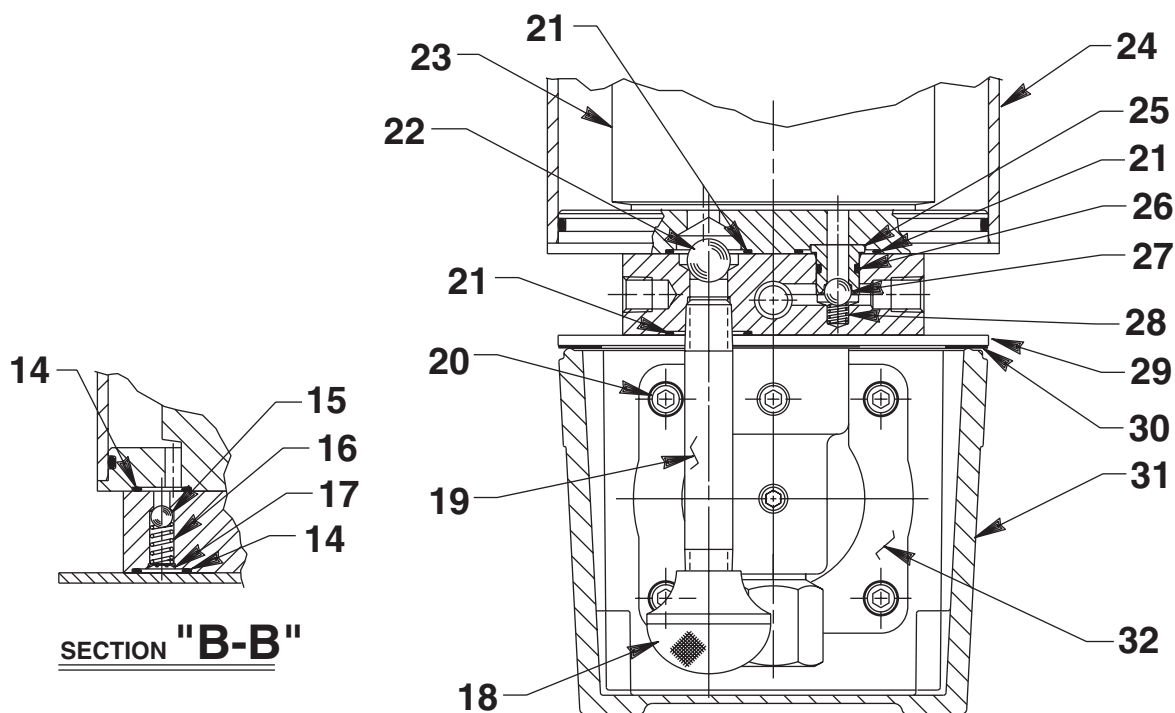
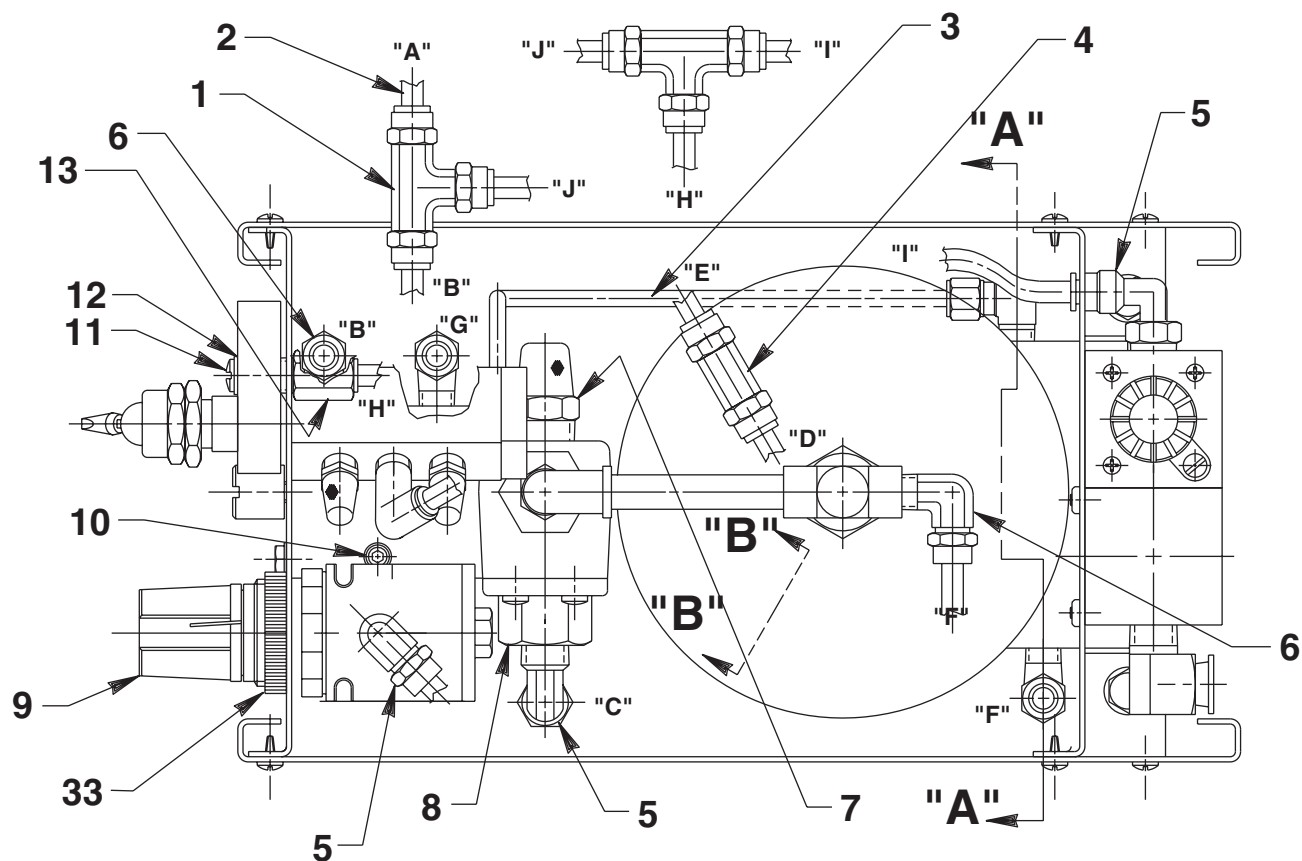
211060	4	Screw (#9-15 X 1" Lg.; Torque to 25/30 in. lbs.; For pump mounting purposes only)
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Refer to any operating instructions included with this product for detailed information about operation, testing, disassembly, reassembly, and preventive maintenance.

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"

Sheet No. 2 of 4

Rev. 2

Date: 8 June 1999

Parts List, Form No. 101683, Back sheet 2 of 4

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 assembly)
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. 300887.
AR= As Required (Order length of tubing as needed according to the chart below).

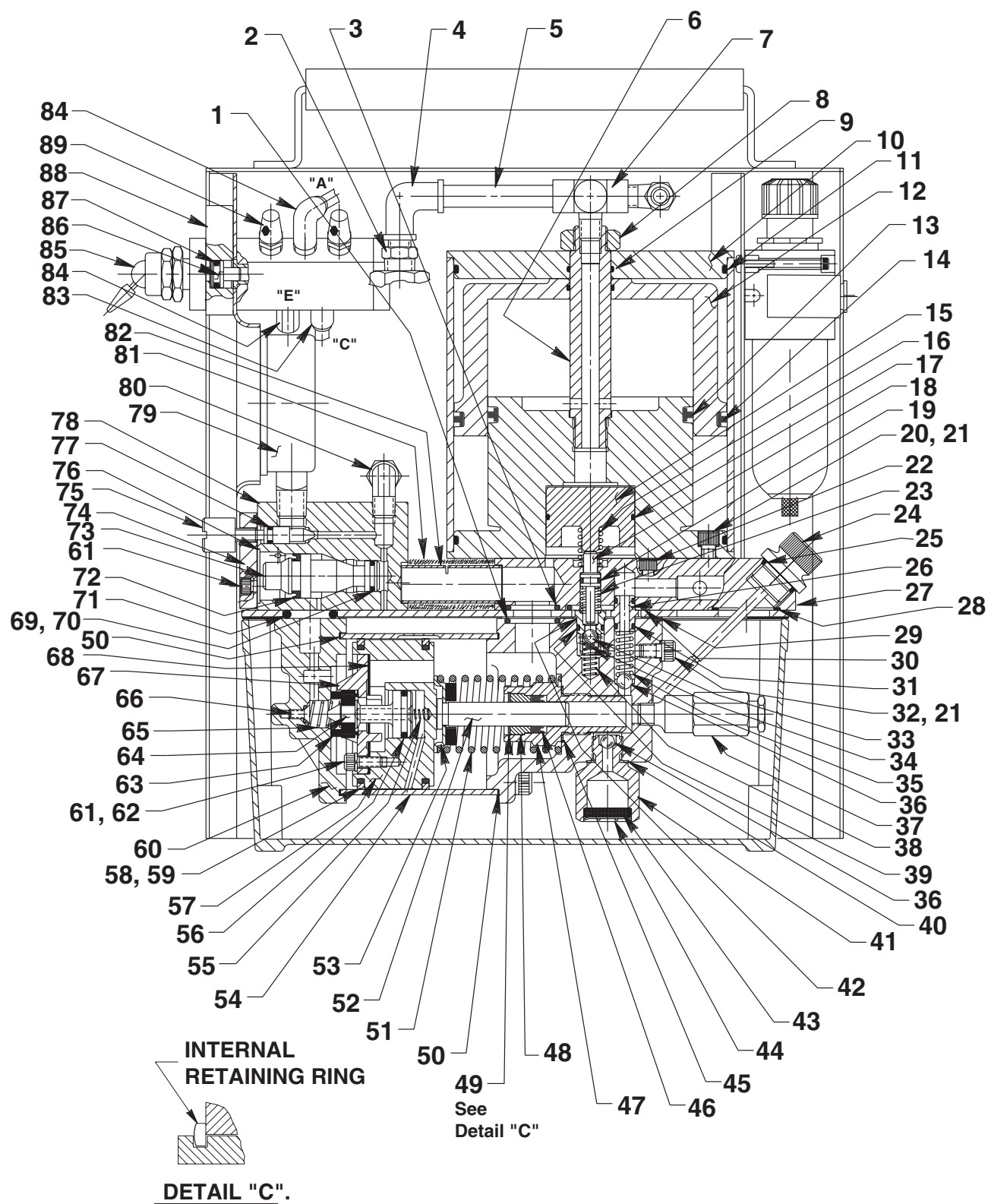
SERVICE INSTRUCTIONS FOR TUBE HOOK-UP

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



Parts List, Form No. 101683, Back sheet 3 of 4

Item No.	Part No.	No. Req'd	Description	Item No.	Part No.	No. Req'd	Description
1	*10272	1	O-ring (3/4 X 9/16 X 3/32)	44	214578	1	Filter
2	16449	1	Nipple	45	*10263	1	Copper Washer (1" X .765 X 1/32)
3	*10276	1	O-ring (1" X 3/4 X 1/8)	46	*14121	1	U-cup Packing
4	12890	1	Elbow Fitting	47	33959	1	Cylinder
5	15456	1	Straight Fitting	48	202624	1	Retainer (See "INSTRUCTIONS FOR RETAINER REPLACEMENT" on sheet 4 of 4.)
6	200341	1	Tube Stud (Apply Loctite)	49	11034	1	Retaining Ring
7	14538	1	Tee	50	*17429	2	Backup Ring
8	10394	1	Hex Nut (5/8-18 UNF)	51	*13938	1	Spring (1.452 O.D. X 4-7/16 Lg.)
9	*10303	2	O-ring (7/8 X 3/4 X 1/16)	52	28400	1	Piston
10	35229	1	Cover	53	211082	1	Spring Guide
11	*15379	2	O-ring (4-15/16 X 4-3/4 X 3/32)	54	351122	1	Air Cylinder (Locate groove on upper half (top) of pump with chamfered tube end towards rear head as shown)
12	35227	1	Piston	55	*12692	1	Spring (3/16 O.D. X 1-11/16 Lg.)
13	*15381	1	T-Seal w/Ring (Smooth side of backup ring to be against seal)	56	*211052	1	O-ring (.900 X .706 X .097)
14	*15380	1	T-Seal w/Ring Packing (Smooth side of backup ring to be against seal)	57	52390	1	Piston Body
15	200343	1	Return Piston	58	*251835	2	O-ring (2-5/16 x 2-1/8 x 3/32)
16	*14960	1	Compression Spring (1/2 O.D. X 1" Lg.)	59	*14265	2	Piston Ring
17	*14875	1	O-ring (1-5/8 X 1-1/2 X 1/16)	60	51480	1	Rear Head
18	29365	1	Release Valve Button	61	211054	5	Screw (#10-24 X 1/2 Lg.; Torque to 50/55 in. lbs.)
19	*10266	1	O-ring (3/8 X 1/4 X 1/16)	62	10241	3	Lockwasher (For #10 bolt)
20	10006	4	Cap Screw (1/4-20 UNC X 5/8 Lg.; Torque to 90/110 in. lbs.)	63	*28183	1	Piston Poppet
21	*10442	5	Washer (3/8 X 1/4 X 1/32)	64	305475	1	Exhaust Valve Stem
22	11151	4	Cap Screw (10-24 UNC X 1-1/4 Lg.; Torque to 90/110 in. lbs.)	65	205679	1	Compression Spring (.485 O.D. X .915 Lg.)
23	*13944	1	Compression Spring (3/8 O.D. X 1/2 Lg.)	66	205674	1	Screw (8-32 UNC X 3/8 Lg.; Torque to 12/18 in. lbs.)
24	252085	1	Dipstick Assembly	67	33822	1	Piston End Plate
25	*10273	1	O-ring (13/16 X 5/8 X 3/32)	68	*28239	1	Gasket
26	34378	1	Check Valve Body	69	*10268	1	O-ring (1/2 X 3/8 X 1/16)
27	65124	1	Valve Body	70	208672	1	Glyd Ring
28	*15175	1	O-ring (1-1/4 X 1-1/8 X .062)	71	*251717	1	O-ring (1" x 5/8 x 3/16)
29	*351021	1	Gasket	72	*15374	1	Packing
30	*11841	1	O-ring (1-5/8 x 1-3/8 x 1/8)	73	35230	1	Poppet
31	*12522	2	O-ring (3/8 X 1/4 X 1/16)	74	200340	1	End Cap
32	10002	1	Cap Screw (1/4-20 UNC X 3/8 Lg.; Torque to 90/110 in. lbs.)	75	203135	1	Stem Gauge Saver
33	*10375	1	Steel Ball (1/4 Dia.; Seat at assembly)	76	*10304	1	O-ring (1" X 7/8 X 1/16)
34	25685	1	Ball Retainer	77	*15023	1	O-ring (5/16 X 3/16 X 1/16)
35	*10445	1	Compression Spring (5/32 O.D. X 3/4 Lg.)	78	50699	1	Valve Body
36	*10423	2	Steel Ball (9/32 Dia.)	79	17946	1	Pressure Gauge
37	21278-48	1	Relief Valve (Set at 4,900/5,300PSI)	80	11278	2	Tube Elbow
38	*14624	1	Compression Spring (1/4 O.D. X 3/4 Lg.)	81	*29992	1	Foam Tube
39	*13943	1	O-ring (1/2 X 3/8 X 1/16)	82	200389	1	Muffler
40	*10261	1	Copper Washer (3/4 X 19/32 X 1/32)	83	250464	1	Straight Fitting
41	48010	1	Filter Adapter (Torque to 40/50 ft. lbs. oiled)	84	250463	3	90° Elbow Fitting
42	34377	1	Poppet Retainer	85	15376	1	Air Valve
43	214586	1	Internal Retaining Ring	86	203128	1	Piston Plunger
				87	*16949	1	U-cup Packing
				88	37186	1	Valve Body
				89	15458	2	Muffler

Part numbers marked with an asterisk (*) are included in Repair Kit No. 300887.

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

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.