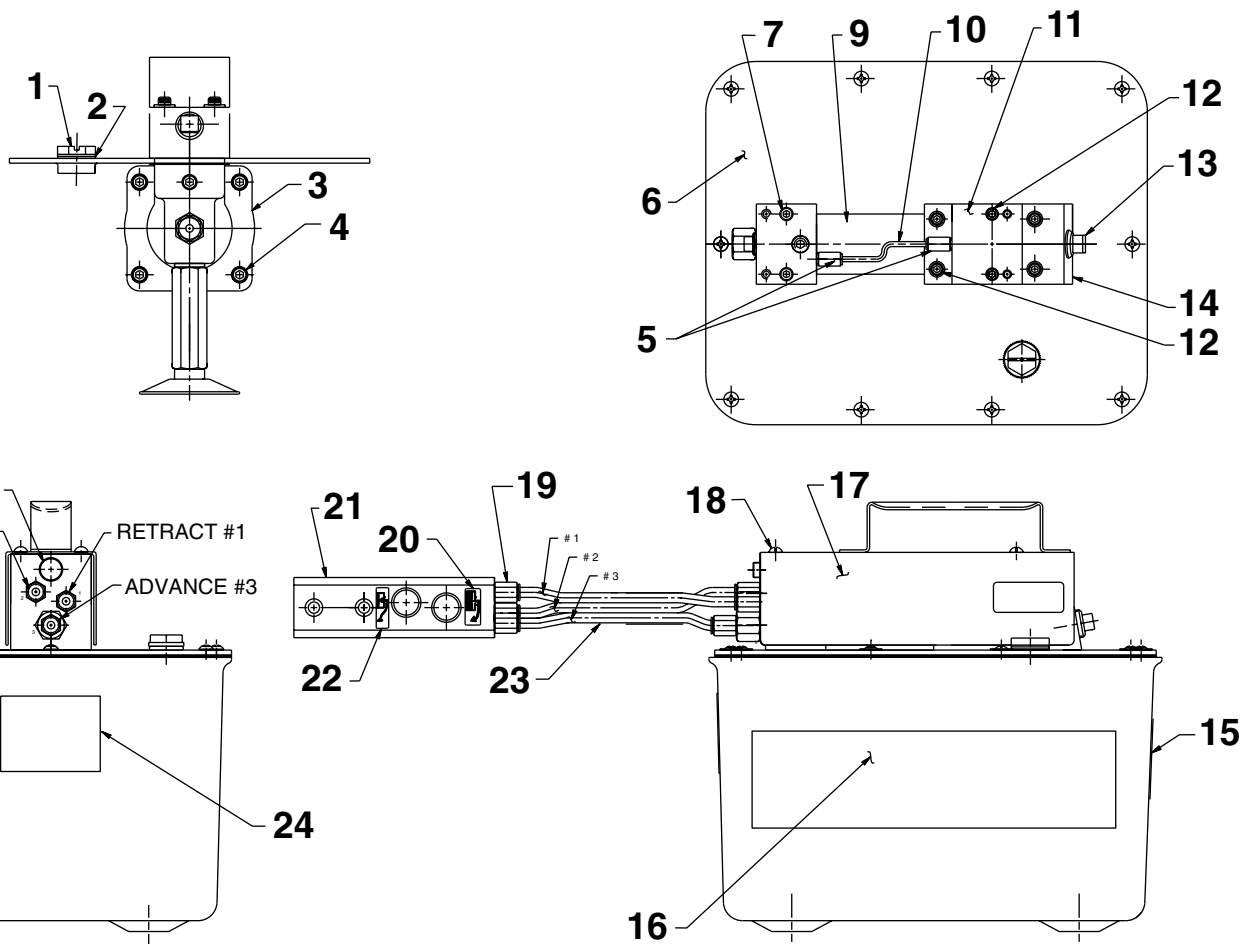


MODEL F AIR HYDRAULIC PUMP



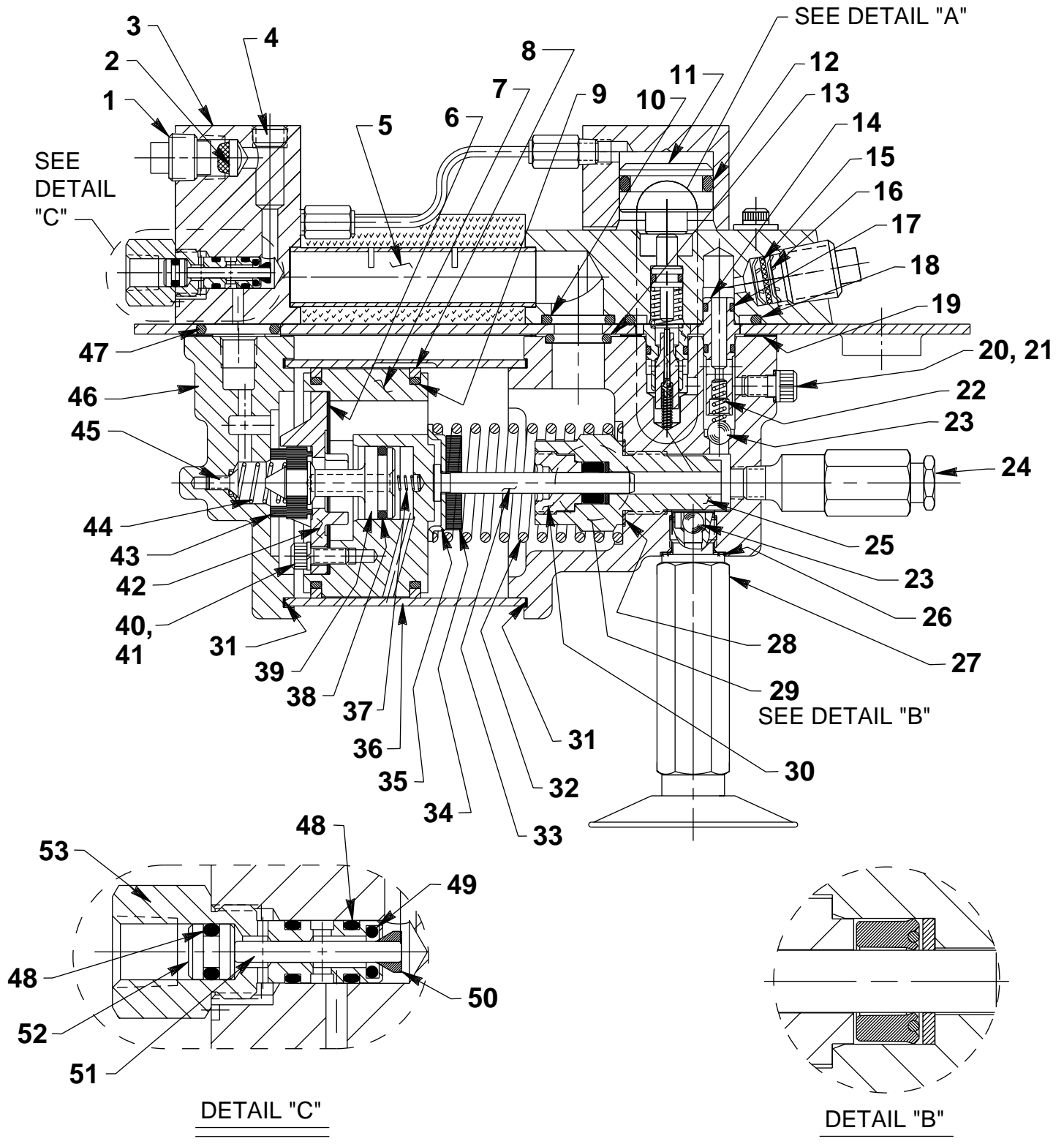
Parts List, Form No. 108175, Back sheet 1 of 3

Item No.	Part No.	No. Req'd	Description
1	251689	1	Filler Breather Cap
2	*10273	1	O-ring (.81 x .62 Nitrile)
3	64767	1	Pump Body
4	17428	4	Soc. Hd. Screw (1/4-20 x 3-1/2; Torque to 85/95 in. lbs. oiled; NOTE: Cross torque in increments of 30 in. lbs.)
5	250725	2	Straight Fitting
6	58706BK2	1	Cover Plate
7	14423	2	Soc. Hd. Screw (10-24 x 2)
9	*29992	1	Foam Tube
10	14281	.3'	Nylon Tubing
11	34759	1	Piston Release Valve Body
12	11151	6	Soc. Hd. Screw (10-24 x 1-1/4; Torque to 50/60 in. lbs.)
13	11127	1	Plug Fitting (3/8 NPTF)
14	58682	1	Release Valve Body
15	251762	1	Warning Decal
16	309219CE	2	Trade Name Decal
17	41605BK2	1	Shroud
18	10164	4	Rnd. Hd. Screw (10-24 x 3/8)
19	250464	6	Straight Fitting (1/8 NPTF)
20	251759	1	Instruction Decal (PUMP)
21	421265	1	Air Operated Hand Control
22	251760	1	Instruction Decal (RELEASE)
23	253690	12'	Pneumatic Ribbon Hose (NOTE: Connect hose to hand control and pump as shown. Hose must connect to corresponding to numbers on the hand control and pump unit.)
24	*305494	1	Instruction Decal (Oil Lube)
25	61165	1	Reservoir
26	*47409	1	Reservoir Gasket
27	252168	10	Pan Hd. Screw (1/4-10 x 1)



Part numbers marked with an asterisk (*) are contained in Standard Repair Kit No. 300852.

BASIC PUMP ASSEMBLY



Parts List, Form No. 108175, Back sheet 2 of 3

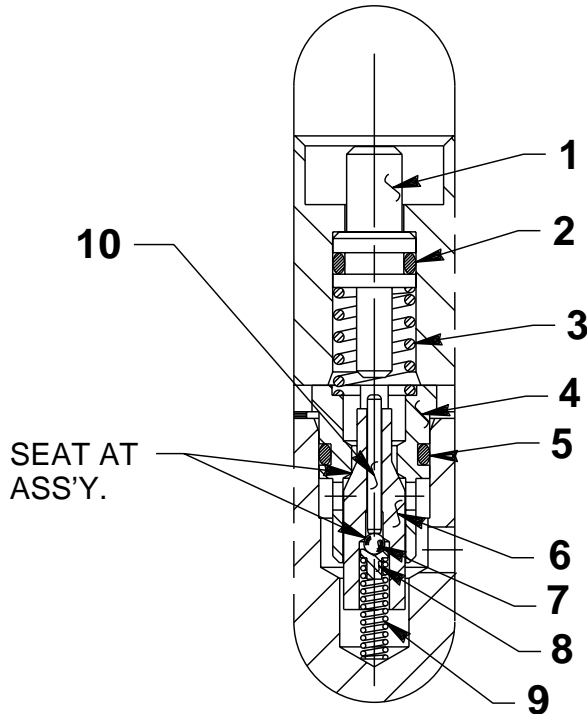
Item No.	Part No.	No. Req'd	Description	Item No.	Part No.	No. Req'd	Description
1	13272	1	Plug Fitting (1/4NPT)	30	*304295	1	Retainer (Note: See "INSTRUCTIONS FOR RETAINER REPLACEMENT" on back sheet 3 of 3.)
2	*216296	1	Filter	31	*17429	2	Backup Washer (2.94 X 2.75)
3	421941	1	Manifold	32	*13938	1	Spring (1.45 O.D. X 4.4)
4	15499	1	Plug Fitting (1/8 PTF)	33	28226	1	Piston (1/4")
5	28387	1	Muffler	34	203143	1	Bumper
6	*28239	1	Gasket	35	210994	1	Spring Guide
7	52390	1	Piston Body	36	37434	1	Air Cylinder (Note: Locate groove on upper half (top) of pump with chamfered tube end towards rear head as shown.)
8	*14265	2	Piston Ring	37	*12692	1	Spring (.18 O.D. X 1.70)
9	*251835	2	O-ring (2-1/2" X 2-5/16" X 3/32 Nitrile)	38	*211052	1	O-ring (.90 X .70)
10	*10276	1	O-ring (1.0 X .75)	39	305475	1	Exhaust Valve Stem
11	34757	1	Piston Release	40	*10241	3	Lockwasher (.33 X .20)
12	*208144	1	O-ring (1.12 X .87; Apply lubricant)	41	211054	3	Screw (10-24 X 1/2; Torque to 50/55 in. lbs.)
13	*10272	1	O-ring (.75 X .56)	42	33822	1	Piston End Plate Casting
14	34378	1	Check Valve Body	43	*28183	1	Piston Poppet
15	*250638	1	Oil Filter Disc	44	*205679	1	Spring (.49 O.D. X .92)
16	*11088	2	Internal Retaining Ring (.31 X .010)	45	*205674	1	Screw (8-32 X 3/8; Torque to 12/18 in. lbs.)
17	*12522	2	O-ring (.37 X .25)	46	51480	1	Rear Head
18	*11841	1	O-ring (1.62 X 1.37)	47	*251717	1	O-ring (1.0 X .62)
19	*351021	1	Cover Plate Gasket	48	12557	3	O-ring (.34 x .21 Nitrile)
20	*10442	1	Copper Washer (.37 X .25)	49	15023	1	O-ring (.31 x .18 Urethane)
21	10002	1	Screw (1/4-20 X 3/8; Torque to 90/110 in. lbs.)	50	250277	1	Poppet (Note: Press fit pin [Item #51] into poppet until pin end is flush with the flat bottom of poppet.)
22	*10445	1	Spring (.16 O.D. X .72)	51	250278	1	Dowel Pin (.13 x 1.00; Note: Press fit pin into poppet [Item #50] until pin end is flush with the flat bottom of poppet.)
23	*10423	2	Ball (9/32" dia.)	52	250261	1	Piston
24	21278-50	-	Relief Valve (Set at 5,100/5,700 PSI; Apply loctite 592 [Power Team #905516] or equiv. & torque to 150/170 in. lbs.)	53	360009	1	Piston Cartridge
25	45278	1	Piston Cylinder (Torque to 90/100 ft. lbs. oiled)				
26	*10261	1	Washer (.75 X .60)				
27	48007	1	Intake Filter (Torque to 40/50 ft. lbs. oiled.)				
28	*10263	1	Special Washer				
29	*13934	1	U-Cup & Backup				



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

DETAIL "A"



Item No.	Part No.	No. Req'd	Description
1	28227	1	Release Valve Button
2	*10266	1	O-ring (.37 X .25)
3	*13944	1	Spring (.36 O.D. X .50)
4	34377	1	Poppet Retainer
5	*15279	1	O-ring (.50 X .37)
6	29037	1	Release Valve Poppet
7	*14443	1	Ball (3/32")
8	209736	1	Ball Retainer
9	*13959	1	Spring (.12 O.D. X .50)
10	13937	1	Dowel Pin (.06 X .63; Note: Place tapered end toward ball.)

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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.

