

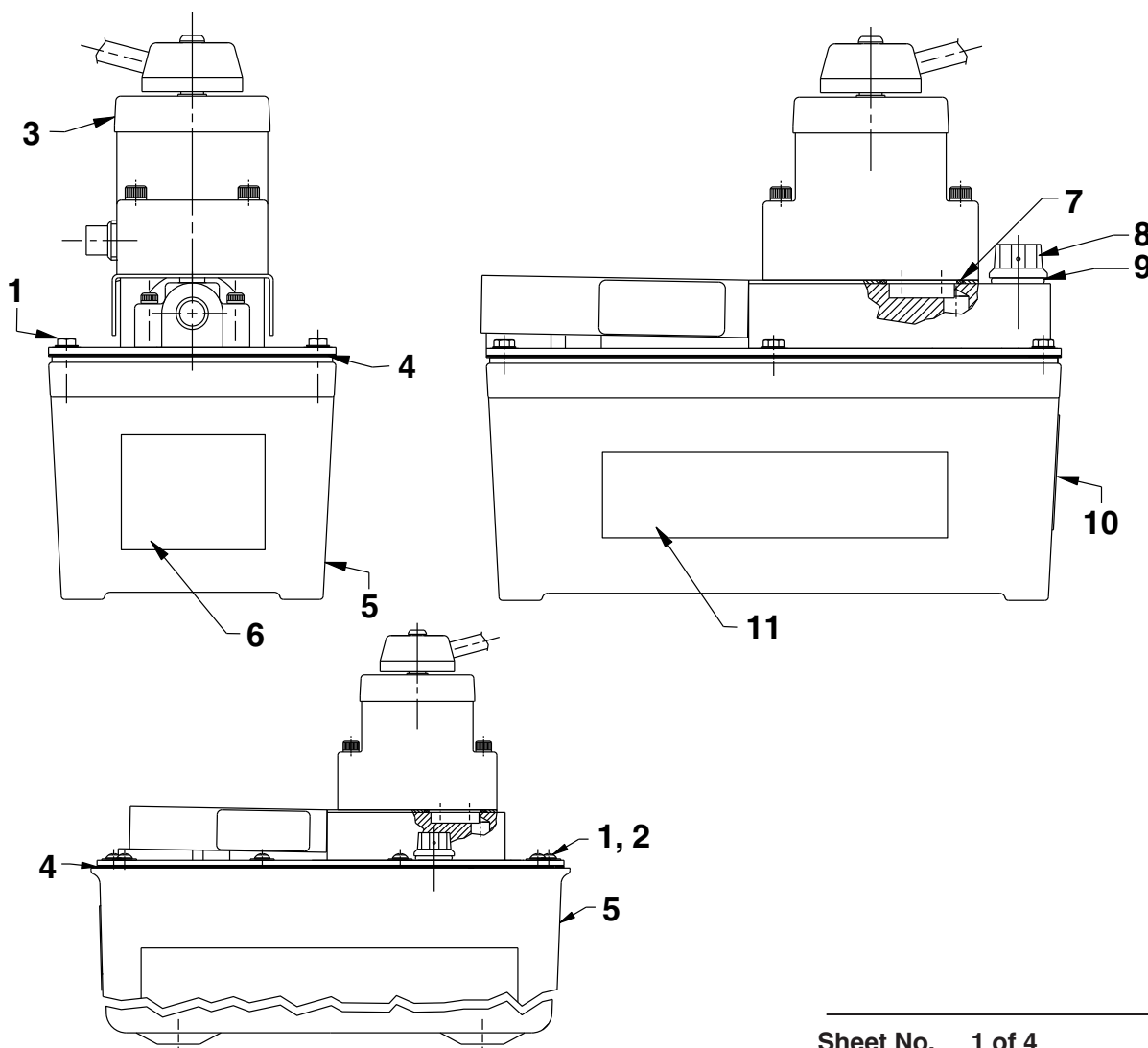
MODEL F AIR HYDRAULIC PUMP

This section covers these following pumps:

PA6-JWI	PA6D-CONT	PA6DN	PA6D2N
PA6-JWI-10	PA6DE	PA6DV	PA6D2V
PA6-JWI-210	PA6DM	PA6D2	70130-Y12-4 (PA6DM-DES-50)
PA6-JWI-275	PA6DM-DE-STA-CO	PA6D2-CONT	
PA6D	PA6DM-1	PA6D2-MC	
PA6D-AUS	PA6DM-2	PA6D2E	

- More models are listed in Parts List 101652.-

Note: These views may not be exact representations of your pump due to the variation of pumps listed, but all parts have been accounted for and are in this parts list.

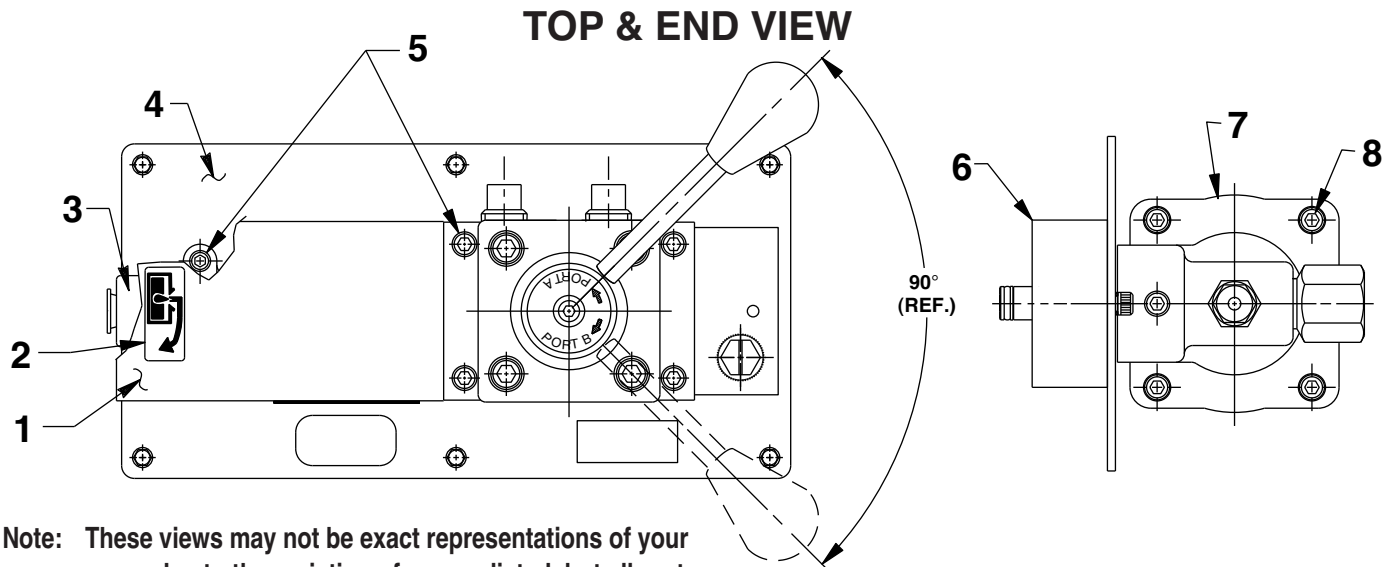


Two gallon reservoir

Parts List, Form No. 101950, Back sheet 1 of 4

Item No.	Part No.	No. Req'd	Description
1	211060	6	Screw (#9-15 X 1" Lg.; Torque to 25/30 in. lbs.; For PA6-JWI, PA6-JWI-10, PA6D, PA6D-AUS & PA6D-CONT)
	252168	10	Screw (Torque to 35/45 in. lbs.; For PA6-JWI-210, PA6-JWI-275, PA6D2, PA6D2-CONT & PA6D2-MC)
	252952	10	Screw (1/4-20 UNC X 3/4 Lg.; Note: Apply Loctite 242 or equiv.; Torque to 35/40 in. lbs.; For PA6DM-2)
	252952	12	Screw (1/4-20 UNC X 3/4 Lg.; Note: Apply Loctite 242 or equiv.; Torque to 35/40 in. lbs.; For PA6DM-1)
	215952	6	Screw (10-24 X 5/8; Torque to 25/35 in. lbs., oiled; For PA6DM, PA6DM-DE-STA-CO & PA6DM-DES-50)
3	52514	1	Manual Pump Mount Valve (For PA6-JWI, PA6-JWI-10, PA6-JWI-210, PA6-JWI-275, PA6D, PA6DM, PA6DM-DE-STA-CO, PA6DM-1, PA6DM-2, PA6D2, PA6D2-MC & PA6DM-DES-50; See Form #100661)
4	*33853	1	Reservoir Gasket (For PA6-JWI, PA6-JWI-10, PA6D, PA6D-AUS, PA6D-CONT, PA6DE, PA6DM, PA6DM-DE-STA-CO, PA6DN, PA6DV & PA6DM-DES-50)
	*47409	1	Reservoir Gasket (For PA6-JWI-210, PA6-JWI-275, PA6DM-2, PA6D2, PA6D2-CONT, PA6D2-MC, PA6D2E, PA6D2N, PA6D2V)
	46271	1	Reservoir Gasket (For PA6DM-1)
5	61243	1	Reservoir (For PA6-JWI, PA6-JWI-10, PA6D, PA6D-AUS & PA6D-CONT)
	61165	1	Reservoir (2 gal. plastic; For PA6-JWI-210, PA6-JWI-275, PA6D2, PA6D2-CONT & PA6D2-MC)
	40063OR9	1	Reservoir (2 gal. metal; For PA6DM-2)
	41300WH2	1	Reservoir (2 quarts metal; For PA6DM, PA6DM-DE-STA-CO & PA6DM-DES-50)
	64153OR9	1	Reservoir (1 gal. metal; For PA6DM-1)
6	*305494	1	Decal (For PA6-JWI-210, PA6-JWI-275, PA6DM-2, PA6D2, PA6D2-CONT, PA6D2-MC, PA6D2E, PA6D2N, PA6D2V & PA6DM-1)
7	*16684	1	O-ring (1-3/16 X 1" X 3/32; For PA6D, PA6D, PA6D-CONT, PA6DM, PA6DM-DE-STA-CO, PA6DM-1, PA6DM-2, PA6DN, PA6D2, PA6D2-CONT, PA6D2-MC, PA6D2N & PA6DM-DES-50)
	18874	1	O-ring (1-3/16 X 1" X 3/32; For PA6DV & PA6D2V)
	17718	1	O-ring (1-3/16 X 1" X 3/32; For PA6DE & PA6D2E)
	*12779	1	O-ring (15/16 X 13/16 X 1/16; For PA6-JWI, PA6-JWI-10, PA6-JWI-210 & PA6-JWI-275)
8	251689	1	Filler/Breather Cap (For all except PA6-LUAM)
	252642	1	Filler/Breather Cap (For PA6-LUAM)
	18999	2	O-ring (13/16 X 5/8 X 3/32; For PA6DV & PA6D2V)
	250157	2	O-ring (13/16 X 5/8 X 3/32; For PA6DE & PA6D2E)
10	251762	1	Warning Decal (For all except PA6-JWI, PA6-JWI-10, PA6-JWI-210, PA6-JWI-275, PA6D2-CONT & PA6D2-MC)
	251762-CE	1	Warning Decal (For PA6DM-DE-STA-CO)
11	309219CE	2	Decal (For PA6DM-1, PA6DM-2, PA6D2, PA6D2-CONT & PA6D2-MC)
	305496	1	Decal (For PA6D-AUS, PA6DM-DE-STA-CO & PA6DM-DES-50)
	305496CE	1	Decal (For PA6D, PA6D-CONT & PA6DM)
			PARTS INCLUDED BUT NOT SHOWN
	252168	4	Screw (1/4-10 X 1 Lg.; For PA6D2, PA6D2-CONT & PA6D2-MC; For pump mounting purposes only.)
	10479	2	Plug Fitting (1/4 PTF; For PA6D-CONT & PA6D2-CONT)
	210995	1	Decal (Return & Pressure; For PA6D-CONT & PA6D2-CONT)
	251319	1	Plug Fitting (1/4 PTF; For PA6-JWI, PA6-JWI-10, PA6-JWI-210 & PA6-JWI-275)

Part numbers marked with an asterisk (*) are contained in a Repair Kit.
See back sheet 4 of 4 for individual repair kit information.



Note: These views may not be exact representations of your pump due to the variation of pumps listed, but all parts have been accounted for and are in this parts list.

Item No.	Part No.	No. Req'd	Description
1	351134BK2	1	Foot Plate (For all except PA6-JWI, PA6-JWI-10, PA6-JWI-210, PA6-JWI-275 & PA6D-AUS)
2	251757	1	Decal (For all except PA6D-CONT, PA6D2-CONT & PA6D2-MC)
3	37199	1	Air Intake Manifold (For all except PA6-JWI, PA6-JWI-10, PA6-JWI-210, PA6-JWI-275, PA6D-CONT, PA6D2-CONT & PA6D2-MC)
	309246	1	Air Intake Manifold (For PA6D-CONT, PA6D2-CONT, PA6D2-MC, PA6-JWI, PA6-JWI-10, PA6-JWI-210 & PA6-JWI-275)
4	421166BK2	1	Cover Plate (For PA6-JWI, PA6-JWI-10, PA6D, PA6D-AUS, PA6D-CONT, PA6DE, PA6DM, PA6DM-DE-STA-CO, PA6DN, PA6DV & PA6DM-DES-50)
	58705BK2	1	Cover Plate (For PA6-JWI-210, PA6-JWI-275, PA6DM-2, PA6D2, PA6D2-CONT, PA6D2-MC, PA6D2E, PA6D2N & PA6D2V)
	58751BK2	1	Cover Plate (For PA6DM-1)
5	11151	6	Screw (10-24 UNC X 1-1/4 Lg.; Torque to 50/60 in. lbs.; For all except PA6D-CONT & PA6D2-CONT)
	11151	2	Screw (10-24 UNC X 1-1/4 Lg.; Torque to 50/60 in. lbs.; For PA6D-CONT & PA6D2-CONT)
	10020	4	Screw (1/4-20 UNC X 1-1/4 Lg.; For PA6D-CONT & PA6D2-CONT; For mounting manifold)
6	58695	1	Manifold (For PA6D, PA6D-AUS, PA6D-CONT, PA6DE, PA6DM, PA6DM-DE-STA-CO, PA6DN, PA6DV & PA6DM-DES-50)
	45837	1	Manifold (For PA6D-CONT & PA6D2-CONT)
	58691	1	Manifold (For PA6-JWI & PA6-JWI-10)
	58692	1	Manifold (For PA6-JWI-210 & PA6-JWI-275)
	58714	1	Manifold (For PA6DM-2, PA6D2, PA6D2-CONT, PA6D2-MC, PA6D2E, PA6D2N & PA6D2V)
	58750	1	Manifold (For PA6DM-1)
7	64767	1	Pump Body
8	17428	4	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.)
PARTS INCLUDED BUT NOT SHOWN			
	11127	2	Plug Fitting (3/8 NPTF)
	205724	1	Attention Decal (For PA6DV & PA6D2V)
	250328	1	Attention Decal (For PA6DE & PA6D2E)
	251762	1	Warning Decal

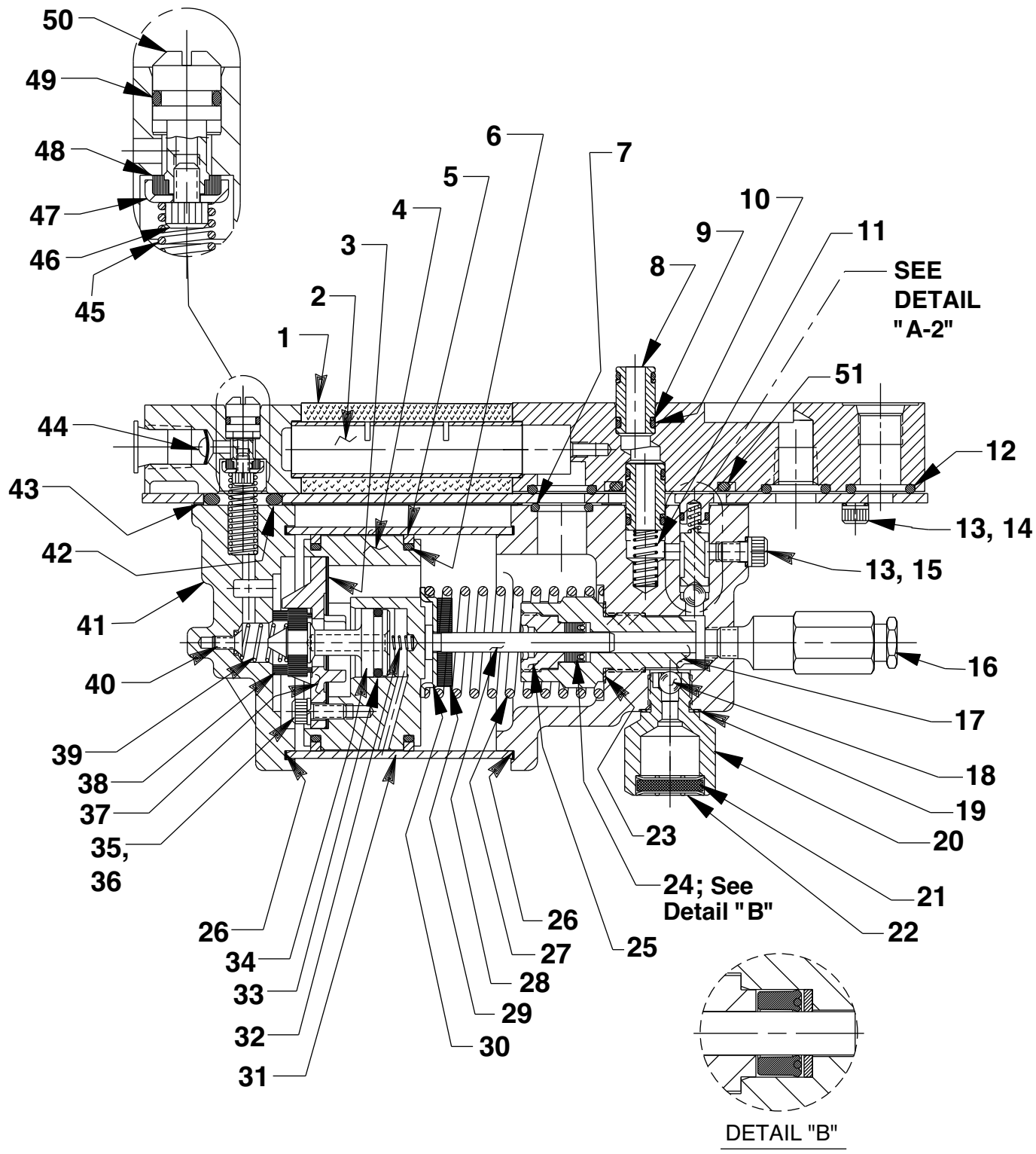
Part numbers marked with an asterisk (*) are contained in a Repair Kit.
See back sheet 4 of 4 for individual repair kit information.

Sheet No. 2 of 4

Rev. 13 Date: 2 Dec 2009

BASIC PUMP ASSEMBLY

Note: These views may not be exact representations of your pump due to the variation of pumps listed, but all parts have been accounted for and are in this parts list.



Parts List

Form No. 101950

Item No.	Part No.	No. Req'd	Description	Item No.	Part No.	No. Req'd	Description
1	*29992	1	Foam Tube	16	-----	-	Relief Valve (When ordering a replacement relief valve refer to stamped number on the outside of the relief valve. See note below. Apply loctite 592 [Power Team #905516] or equiv. & torque to 150/170 in. lbs.)
2	28387	1	Muffler	17	45278	1	Piston Cylinder (Torque to 90/100 ft. lbs. oiled)
3	*28239	1	Gasket	18	*10375	1	Ball (1/4 Dia.; For PA6-JWI, PA6-JWI-10, PA6D, PA6D-AUS, PA6D-CONT, PA6DE, PA6DM, PA6DM-DE-STA-CO, PA6DM-1, PA6DN, PA6DV & PA6DM-DES-50)
4	52390	1	Piston Body		*10423	1	Ball (9/32 Dia.; For all except PA6-JWI, PA6-JWI-10, PA6D, PA6D-AUS, PA6D-CONT, PA6DE, PA6DM, PA6DM-DE-STA-CO, PA6DM-1, PA6DN & PA6DV)
5	*14265	2	Piston Ring	19	*10261	1	Special Washer (3/4 X 19/32 X 1/32)
6	*251835	2	O-ring (2-5/16 x 2-1/8 x 3/32; For all except PA6DE, PA6DV, PA6D2E & PA6D2V)	20	308893	1	Filter Adapter (Torque to 40/50 ft. lbs., oiled; For PA6-JWI, PA6-JWI-10, PA6D, PA6D-AUS, PA6D-CONT, PA6DE, PA6DM, PA6DM-DE-STA-CO, PA6DM-1, PA6DN, PA6DV & PA6DM-DES-50; See sheet 4 of 4 for pumps with 2 gal. reservoirs.)
	251865	2	O-ring (2-5/16 x 2-1/8 x 3/32; For PA6DV & PA6D2V)	21	214578	1	Filter (For all reservoir sizes except 2 gal. reservoirs built after June 1, 1998)
	251866	2	O-ring (2-5/16 x 2-1/8 x 3/32; For PA6DE & PA6D2E)	22	214586	1	Retaining Ring (.63 X .015; For all reservoir sizes except 2 gal. reservoirs built before June 1, 1998; PA6-JWI-210, PA6-JWI-275, PA6D, PA6D-AUS, PA6DM, PA6DM-DE-STA-CO, PA6DM-1 & PA6DM-DES-50)
7	*10272	1	O-ring (3/4 X 9/16 X 3/32; For all except PA6DE, PA6DV, PA6D2E & PA6D2V)		214586	2	Retaining Ring (.63 X .015; For all reservoir sizes except 2 gal. reservoirs built after June 1, 1998; For PA6-JWI-210, PA6-JWI-275, PA6D, PA6D-AUS, PA6DM, PA6DM-DE-STA-CO, PA6DM-1 & PA6DM-DES-50)
	18998	1	O-ring (3/4 X 9/16 X 3/32; For PA6DV & PA6D2V)	23	10263	1	Special Washer (1" X .765 X 1/32)
	250194	1	O-ring (3/4 X 9/16 X 3/32; For PA6DE & PA6D2E)	24	*13934	1	U-cup & Backup
8	21094	2	Bushing	25	*304295	1	Retainer (See "INSTRUCTIONS FOR RETAINER REPLACEMENT" on back sheet 4 of 4.)
9	*11863	4	Backup Washer (1/2 X 3/8 X 1/16)	26	*17429	2	Backup Washer (2-15/16 X 2-3/4 X .045)
10	*10268	4	O-ring (1/2 X 3/8 X 1/16; For all except PA6DV, PA6DE, PA6D2E & PA6D2V)	27	*13938	1	Spring (1.452 O.D. X 4-7/16 Lg.)
	19775	4	O-ring (1/2 X 3/8 X 1/16; For PA6DV & PA6D2V)	28	28226	1	Piston
	17716	4	O-ring (1/2 X 3/8 X 1/16; For PA6DE & PA6D2E)	29	203143	1	Bumper
11	*16448	1	Spring (5/16 O.D. x 13/16 Lg.)	30	210994	1	Spring Guide
12	*10276	2	O-ring (1" X 3/4 X 1/8; For PA6-JWI-210, PA6-JWI-275, PA6DM-2, PA6D2, PA6D2-CONT, PA6D2-MC & PA6D2N)				CONTINUED
	10276	3	O-ring (1" X 3/4 X 1/8; For PA6-JWI, PA6D, PA6D-AUS, PA6D-CONT, PA6DM, PA6DM-DE-STA-CO, PA6DM-1, PA6DN & PA6DM-DES-50)				Part numbers marked with an asterisk () are contained in a Repair Kit. See back sheet 4 of 4 for individual repair kit information.
	*10276	4	O-ring (1" X 3/4 X 1/8; For PA6-JWI-10)				
	19026	3	O-ring (1" X 3/4 X 1/8; For PA6DV)				
	19026	2	O-ring (1" X 3/4 X 1/8; For PA6D2V)				
	250188	4	O-ring (1" X 3/4 X 1/8; For PA6DE)				
	250188	2	O-ring (1" X 3/4 X 1/8; For PA6D2E)				
13	*10442	1	Special Washer (3/8 X 1/4 X 1/32; For PA6-JWI-210, PA6-JWI-275, PA6DM-2, PA6D2, PA6D2-CONT, PA6D2-MC, PA6D2E, PA6D2N & PA6D2V)				
	*10442	2	Special Washer (3/8 X 1/4 X 1/32; For all except PA6-JWI-210, PA6-JWI-275, PA6DM-2, PA6D2, PA6D2-CONT, PA6D2-MC, PA6D2E, PA6D2N & PA6D2V)				
14	10807	1	Screw (1/4-20 UNC X 1/2 Lg.; For PA6-JWI, PA6-JWI-10, PA6D, PA6D-AUS, PA6D-CONT, PA6DE, PA6DM, PA6DM-DE-STA-CO, PA6DN-1, PA6DN, PA6DV & PA6DM-DES-50)				
15	10002	1	Screw (1/4-20 UNC X 3/8 Lg.; Torque to 90/110 in. lbs.)				
				31	37434	1	Air Cylinder (Note: Locate groove on upper half (top) of pump with chamfered tube end towards rear head as shown.)

NOTE: Standard relief valves are set at 10,100/10,700 PSI.
Relief valves pre-set at special settings are available.
Refer to your pump model number or contact
Power Team Technical Services.

Sheet No. 3 of 4

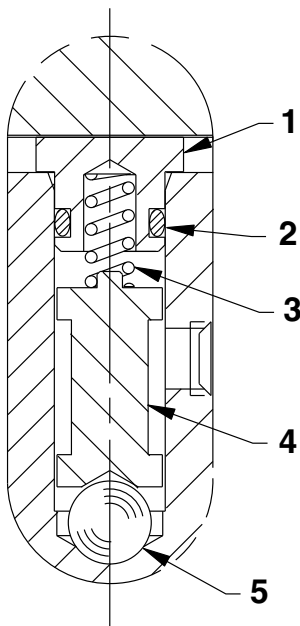
Rev. 13 Date: 2 Dec 2009

Parts List, Form No. 101950, Back sheet 3 of 4

Item No.	Part No.	No. Req'd	Description	Item No.	Part No.	No. Req'd	Description
32*	12692	1	Spring (3/16 O.D. X 1-11/16 Lg.)	47	28198	1	Seal Guide (For all except PA6-JWI, PA6-JWI-10, PA6-JWI-210, PA6-JWI-275, PA6D-CONT, PA6D2-CONT & PA6D2-MC)
33	*211052	1	O-ring (.900 X .706 X .097; For all except PA6DE, PA6DV, PA6D2E & PA6D2V)	48	*28182	1	Air Valve Poppet (For all except PA6-JWI, PA6-JWI-10, PA6-JWI-210, PA6-JWI-275, PA6D-CONT, PA6D2-CONT & PA6D2-MC)
	250192	1	O-ring (.900 X .706 X .097; For PA6DV & PA6D2V)	49	*10267	1	O-ring (7/16 X 5/16 X 1/16; For PA6D, PA6D-AUS, PA6DM, PA6DM-DE-STA-CO, PA6DM-1, PA6DM-2, PA6DN, PA6D2, PA6D2N & PA6DM-DES-50)
	250193	1	O-ring (.900 X .706 X .097; For PA6DE & PA6D2E)		18974	1	O-ring (7/16 X 5/16 X 1/16; For PA6DV & PA6D2V)
34	305475	1	Exhaust Valve Stem		13472	1	O-ring (7/16 X 5/16 X 1/16; For PA6DE & PA6D2E)
35	*10241	3	Lockwasher (For #10 bolt)	50	33841	1	Actuator Button (For all except PA6-JWI, PA6-JWI-10, PA6-JWI-210, PA6-JWI-275, PA6D-CONT, PA6D2-CONT & PA6D2-MC)
36	211054	3	Screw (#10-24 X 1/2 Lg.; Torque to 50/55 in. lbs.)	51	*11841	1	O-ring (1.62 x 1.37 Nitrile, For all except PA6DV, PA6DE, PA6D2E & PA6D2V)
37	33822	1	Piston End Plate Casting		19035	1	O-ring (1.62 x 1.37 Nitrile, For PA6DV & PA6D2V)
38	*28183	1	Piston Poppet		251695	1	O-ring (1.62 x 1.37 Nitrile, For PA6DE & PA6D2E)
39	*205679	1	Spring (.485 O.D. X .915 Lg.)	PARTS INCLUDED BUT NOT SHOWN			
40	*205674	1	Screw (8-32 UNC X 3/8 Lg.; Torque to 12/18 in. lbs.)	14972	1	Plug Fitting (1/4 PTF; Replaces air pressure valve; For PA6D-CONT, PA6D2-CONT & PA6D2-MC)	
41	51480	1	Rear Head	15024	1	Straight Fitting (1/4 PTF; For PA6-JWI & PA6-JWI-10)	
42	*251717	1	O-ring (1" x 5/8 x 3/16; For all except PA6DE, PA6DV, PA6D2E & PA6D2V)				
	251718	1	O-ring (1" x 5/8 x 3/16; For PA6DV & PA6D2V)				
	251719	1	O-ring (1" x 5/8 x 3/16; For PA6DE & PA6D2E)				
43	351021	1	Gasket				
44	*216296	1	Filter Disc				
45	12691	1	Spring (3/8 O.D. X 1-1/2 Lg.; For all except PA6-JWI, PA6-JWI-10, PA6-JWI-210, PA6-JWI-275, PA6D-CONT, PA6D2-CONT & PA6D2-MC)				
			Torque to 4/10 in. lbs.				
46	13936	1	Screw (8-32 UNC x 1/4 Lg.; For all except PA6-JWI, PA6-JWI-10, PA6-JWI-210, PA6-JWI-275, PA6D-CONT, PA6D2-CONT & PA6D2-MC)				

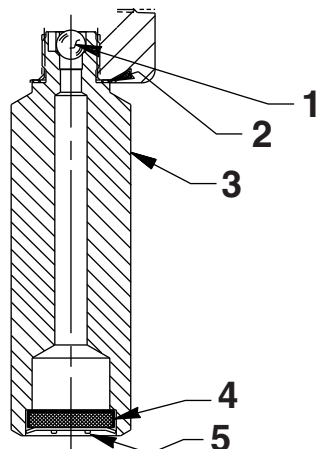
Part numbers marked with an asterisk (*) are contained in a Repair Kit see back sheet 4 of 4 for individual repair kit information.

DETAIL "A-2"



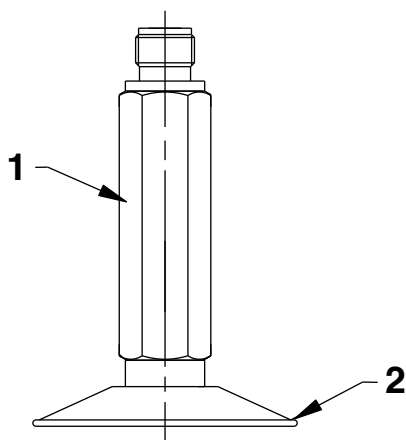
Item No.	Part No.	No. Req'd	Description
1	36497	1	Check Valve Retainer
2	*211053	1	O-ring (3/8 X 1/4 X 1/16; For all except PA6DE, PA6DV, PA6D2E & PA6D2V)
	11438	1	O-ring (3/8 X 1/4 X 1/16; For PA6DV & PA6D2V)
	17715	1	O-ring (3/8 X 1/4 X 1/16; For PA6DE & PA6D2E)
3	*10445	1	Spring (5/32 O.D. X 3/4 Lg.)
4	202568	1	Ball Guide
5	*10423	1	Ball (9/32 Dia.)

Part numbers marked with an asterisk (*) are contained in a Repair Kit see back sheet 4 of 4 for individual repair kit information.

FILTER ADAPTER ASSEMBLIES BEFORE 6/1/98**For 2 Gallon Reservoirs Only**

Item No.	Part No.	No. Req'd	Description
1	*10423	1	Ball (9/32 Dia.)
2	*10261	1	Special Washer (3/4 x 19/32 x 1/32)
3	48007	1	Filter Adapter (Torque to 40/50 ft. lbs., oiled; For PA6DM-2, PA6D2, PA6D2-CONT, PA6D2-MC, PA6D2E, PA6D2N & PA6D2V)
	48008	1	Filter Adapter (Torque to 40/50 ft. lbs., oiled; For PA6-JWI-210 & PA6-JWI-275)
4	214578	1	Filter
5	214586	1	Retaining Ring (.63 x .015)

Part numbers marked with an asterisk (*) are contained in a Repair Kit see back sheet 4 of 4 for individual repair kit information.

FILTER ADAPTER ASSEMBLIES AFTER 6/1/98**For 2 Gallon Reservoirs Only****(Reference Part Numbers 48007 or 48008)**

Item No.	Part No.	No. Req'd	Description
1	422016	1	Filter Adapter (For 48007)
	422017	1	Filter Adapter (For 48008)
2	29682	1	Filter

REPAIR KITS

No. 300844

PA6D
PA6D-AUS
PA6DM
PA6DM-1
PA6DM-DE-STA-CO
PA6DN
PA6DM-DES-50

No. 300845

PA6-JWI-210
PA6-JWI-275
PA6D2-CONT
PA6D2-MC

No. 300847

PA6-JWI
PA6-JWI-10
PA6D-CONT

No. 300850

PA6D2
PA6DM-2
PA6D2N

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.

