

Repair Parts Sheet

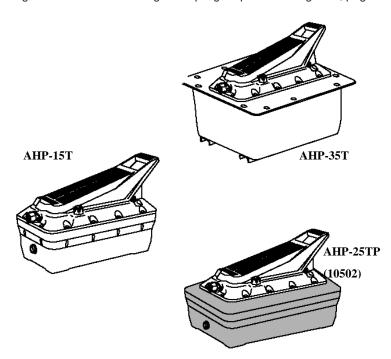
Turbo II Air Hydraulic Pump

Model 10500, 10502, 10504 (AHP-15T, AHP-25TP, AHP-35T))

Install all kit components to insure optimum performance of the repaired unit.

NOTE: Storing the pump in the vertical position may cause it to lose its prime. If pump loses its prime:

- 1. Remove cover.
- 2. Remove relief valve.
- 3. Fill chamber with oil.
- 4. Replace relief valve. Apply Loctite 545 to threads and torque to 10-12 ft-lbs. [14-16 Nm].
- 5. Replace pump cover. Tighten fasteners according to torquing sequence on Figure 1, page 2.



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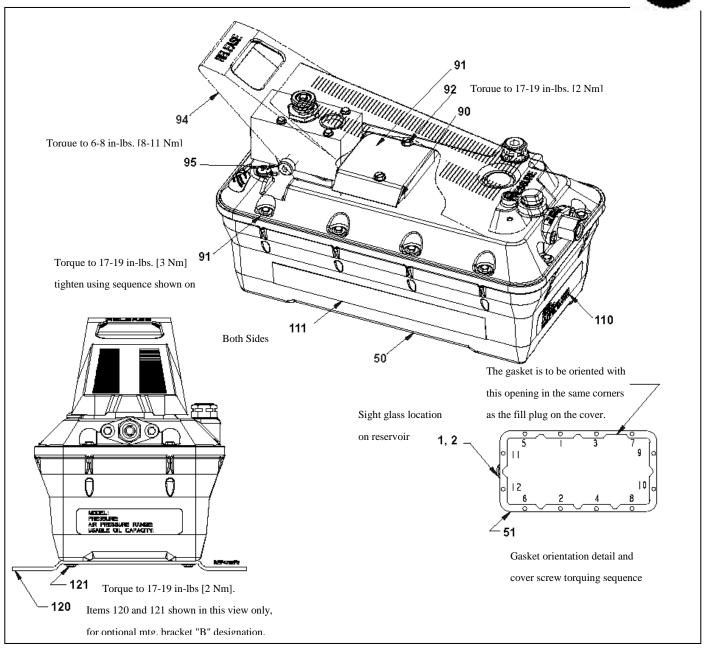


Figure 1

	Repair Parts List for Figure 1										
Item	Part Number	Qty.	Description		Item	Part Number	Qty.	Description			
1	DA12288022	1	Sight Glass		92	DC1523028	2	Slotted Hex Washer Head Scr.			
2	★ B1908503	1	O Ring		94	DA4849218	1	Treadle			
50	DC4321900SR	1	Reservoir, 2 L, Yellow		95	DA4236242	2	Shoulder Screw			
	DC4320900SR	1	Reservoir, 5 L, Black		111	DC1146026	2	Decal, Esco (AHP-15T, AHP-35T)			
51	★ DC4027167	1	Reservoir Gasket, 2 L			DC825026	2	Decal, Esco (AHP-25TP)			
	DC714517	1	O-ring Gasket Cover, 5 L		110	DA4296026	1	Model No. Decal			
54	DA5938028	12	Hi Lo Screw		120	DA5389111	1	Mounting Bracket			
90	DA8625116	1	Muffler		121	DA5938028	4	Hi Lo Screw			
91	DA5690098	1	Muffler Cover								



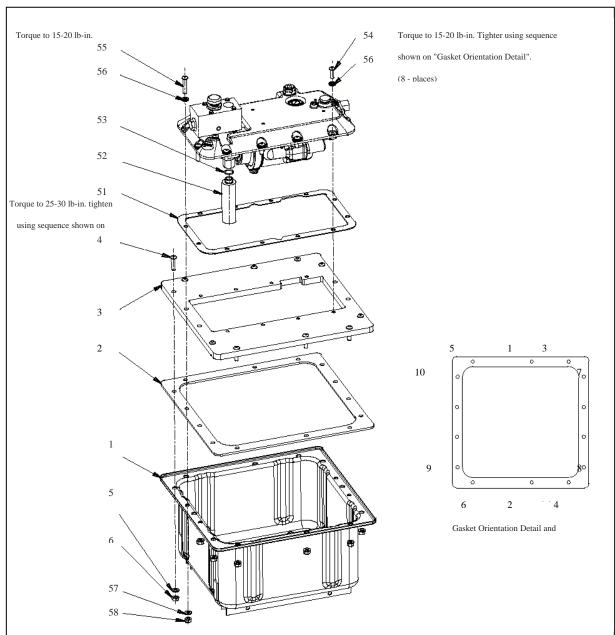


Figure 2

	Repair Parts List for Figure 2									
Item	Part Number	Qty.	Description		Item	Part Number	Qty.	Description		
1	DA11741025	1	2 Gallon reservoir		53	B1221503	1	0-Ring		
2	DA11720037	1	Reservoir Gasket Top Plate		54	B2521028	8	BHC Screw250-20x. 75 lg.		
3	DA11730101	1	Plate		55	DC4487028	4	Cap screw		
4	B2525028	10	BHC Screw		56	DC1063108	12	Sealing Washer		
5	B1015066	14	Washer, Lock, .250		57	B1015066	4	Lock Washer .250		
6	B1001122	14	Hex Nut (.250-20)		58	B1001122	4	Hex Nut (.250-20)		
51	DA7933167	1	Gasket		110	DA6197028	4	Screw		
52	DC460900SR	1	Intake Tube							

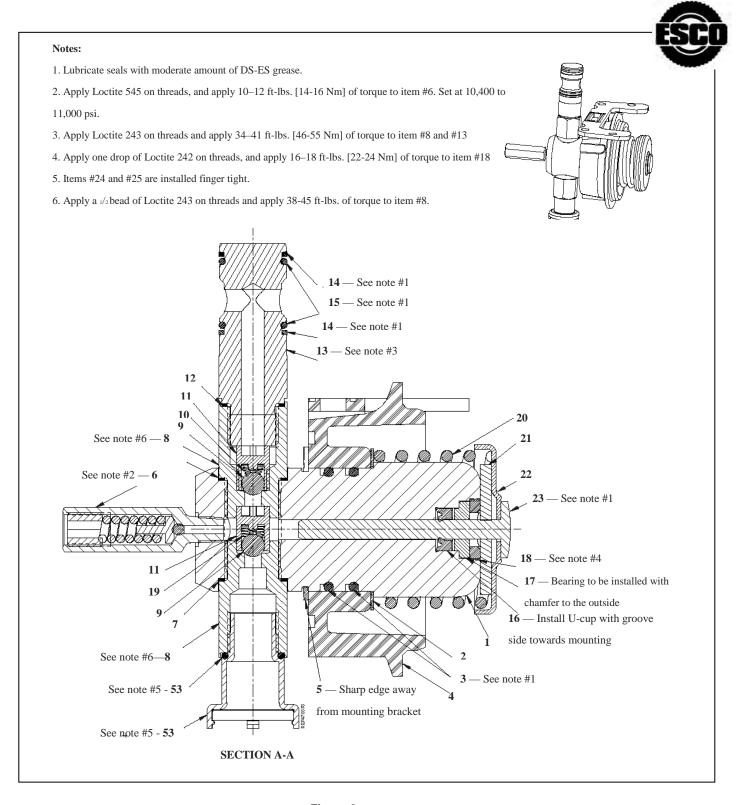


Figure 3

			Repair Parts L	ist	for Fig	ure 3		
Item	Part Number	Qty.	Description		Item	Part Number	Qty.	Description
1	DC114030	1	Hydraulic Cylinder, Turbo 10 KSI		14	★ DA4974367	2	Backup Ring
2	DA4298108	1	Washer		15	★ B1016803	2	O-Ring - Glok
3	★ B1258503	2	O-Ring		16	★ CB918041	1	U-Cup 10 KSI
4	DA4287111	1	Mtg. Bracket		17	★ CB624108	1	Bearing 10 KS
5	DA4343044	1	Bowed Ret. Ring		18	★ DA1204044	1	Bearing Retainer 10 KSI
6	DA8802900SR	1	Relief Valve Assembly		19	★ DA6911210	1	Conical Spring
7	★ DA3811167	2	Copper Gasket		20	DA4285110	1	Spring
8	DC283290 5 R	2	Seat		21	DA6600108	1	Rubber Washer 10 KSI
9	★ B1007016	2	1/4" Dia. Ball		22	DA4284108	1	Spring Washer, Turbo, 10 KSI
10	★ DA4874110	1	Conical Spring		23	CB180040	1	Plunger, 10 KSI
11	★ DA3682013	2	Ball Guide		24	★ DC4440	1	Poppet
12	★ DC170167	1	Copper Gasket		52	DC442900SR	1	Intake Tube Assembly
13	DC5268SR	1	Pressure Tube 10 KSI		53	★ B1221503	1	O-Ring Ref. C403503
* Items	included as part of	Repair Ki	t: (DC2222900K) Also included in com	plet	e Pump F	Repair Kit PATG110	0K.	

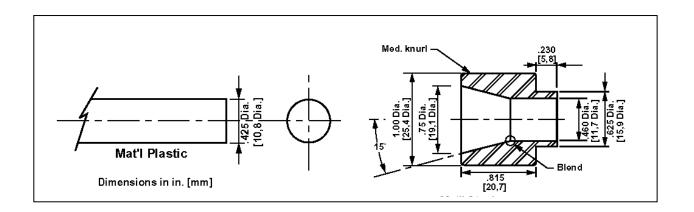


Figure 4, U-cup Installation Tools



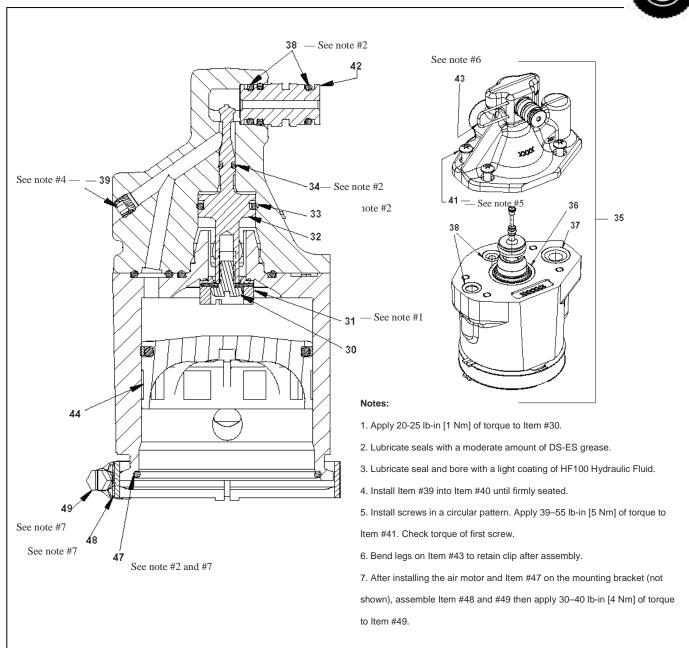


Figure 5

Repair	Repair Parts List for Figure 5							
Item	Part Number	Qty.	Description					
30	★ DA7085028	1	Screw – .250-20 Special					
31	★ DA3706120	1	B/U Washer					
32	★ DC2234051	1	Piston					
33	★ B1013503	1	O-Ring					
34	★ B1001503	1	O-Ring(.12 x .25 x .06)					
35	DC2200900SR	1	Air Motor, Complete					
36	★ B1260503	1	O-Ring					

Item	Part Number	Qty.	Description
39	A1006245	1	1/16 Flush Plug w/Sealant
41	DC2261628	4	Screw, Torx (.25-20 x .75 lg.)
42	DC2182099	1	Extension Fitting, Air Motor
43	★ DA5521149	1	Retaining Pin
44	DA4122051SR	1	Air Motor Piston Assembly
47	★ B1282503	1	O-Ring
48	DA2687111	2	Clamp Brk.

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37	★ B1014503	1	O-Ring Ref M760041	49	DA2686299	1	Hose Clamp
38	★ B1009503	4	O-Ring Ref K1041				

★Items included in and available only as part of Repair Kit DC2234900SR. Also included in complete Pump Repair Kit PATG1100K.

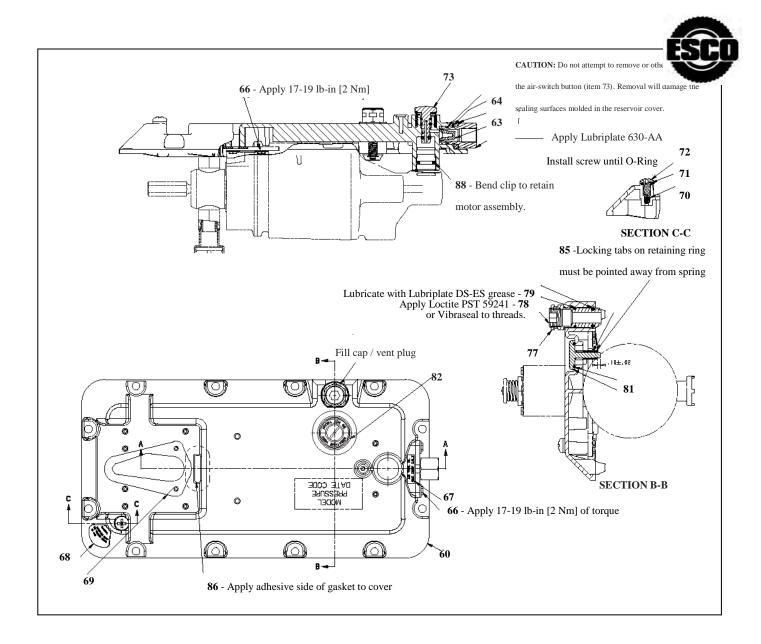


Figure 6

	Repair Parts List for Figure 6									
Item	Part Number	Qty.	Description		Item	Part Number	Qty.	Description		
60	DC3913900SR	1	Cover Assy. (includes 61-87)		73	Not serviceable	1	Air Button		
61	DA5295034	1	Swivel Coupler		77	DA4871118	1	Breather		
62	★ DA5015118SR	1	Filter		78	A1009245	1	3/8 Flush Plug W/Sealant		
63	DA4847799	1	Stamped Bracket		79	★ DA5349503	1	O Ring (Wear Coated)		
64	DA5026349	1	Ret. Ring		80	★ B1010503	1	O Ring		
65	★ B1220503	1	O Ring Ref B839503		81	DC708440	1	Poppet		
66	DA5938028	6	Hi Lo Screw		82	U972038026-2	1	Breather Vent Decal		
67	U972038026-3	1	Air Tool Oil Decal		83	B1224503	1	O Ring Ref J711041		
68	DA7931026	1	Caution Decal		84	DC821110	1	Compression Spring		
69	★ DA6957037	1	Gasket		85	DC4077160	1	3/16" Retainer		
70	★ DA4390118	1	Filter		86	★ DA6956037	1	Gasket		
71	★ B1005503	1	O Ring		88	★ DA5521149	1	Retaining Pin		
72	DC1522028	1	Phillips Heads Screw							
* Item	s included in Pump R	epair Kit	PATG1100K.							



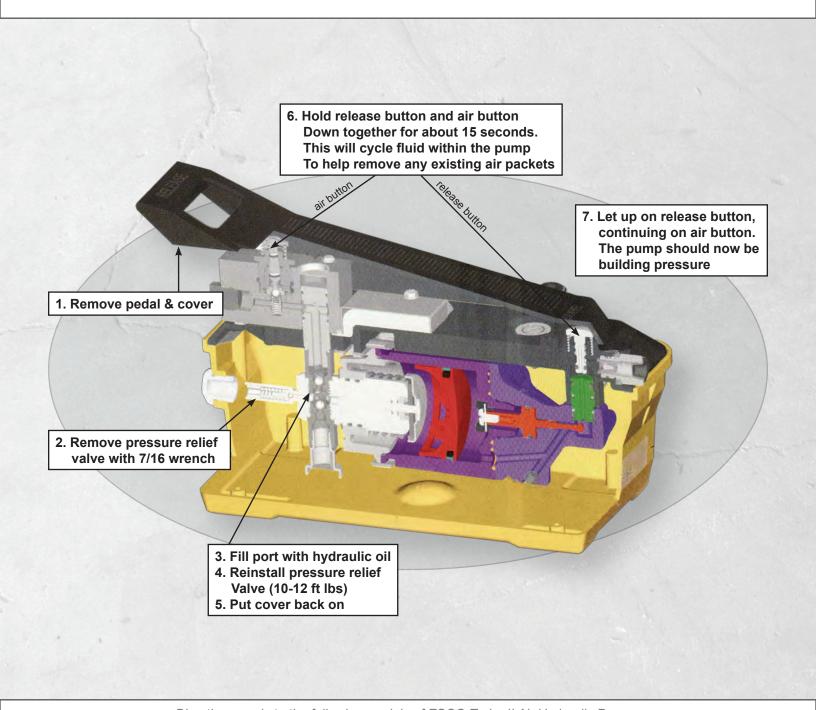
Notes: 1. Torque Item #19 to 72—78 ft-lbs. [98-105 Nm] with threads lubricated 2. Torque Item #11 to 17—19 in-lbs. [2 Nm] 3. Lubricate all seals and mating surfaces w/DS-ES Grease prior to assembly unless otherwise noted. 4. Prior to assembling Item #6 seat, coin seat with a i. 219 ball to a force of 95—105 lbs. [444 N] See note 4 15 6 — See note 4 7 8 9 11 12 11 See note 2

Figure 7

ltem	Part Number	Qty.	Description	Item	Part Number	Qty.	Description
1	★ DA5025349	1	Ret. Ring	11	DA4294028	4	Thd. Form Screw
2	DA4848108	1	Spring Washer	12	★ B1006564	1	B/U Washer
3	★ DA4831020	1	Cap	13	★ B1001503	1	O-Ring (.12 x .25 x .06)
4	DA4832040	1	Release Plunger	14	★ B1003503	1	O-Ring (.19 x .31 x .06) BUNA
5	★ DA6971110	1	Spring	15	★ B1008564	1	Back-up Washer
6	★ CB581290	1	Ball Seat	16	★ B1118903	1	O-Ring
7	* P20037	1	Gasket	17	R515245-2	1	Plug
8	★ CL344167	1	Gasket	18	★ CJ656110	1	Spring
9	* B1006016	1	7/32" Dia. Ball	19	DA4872013	1	Release Guide
10	DA4833190	1	Manifold	20	★ DA7572013	1	Ball Guide







Directions apply to the following models of ESCO Turbo II Air Hydraulic Pumps: **10500, 10502 and 10504**





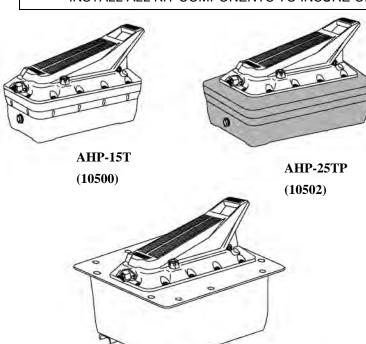


Repair Parts Sheet

Turbo Air Hydraulic Pump

Model 10500, 10502, 10504 (AHP-15T, AHP-25TP, AHP35T)

INSTALL ALL KIT COMPONENTS TO INSURE OPTIMUM PERFORMANCE OF THE REPAIRED PUMP.



NOTE: Storing the pump in the vertical position may cause it to loose its prime. If pump looses its prime:

- Remove cover.
- 2. Remove relief valve.
- 3. Fill chamber with oil.
- Replace relief valve. Apply Loctite 545 to threads and torque to 10-12 ft-lbs. [14-16 Nm].
- Replace pump cover. Tighten every other fastener around the perimeter of the cover in one continuous direction. Torque screws to 25-30 in-lbs.

Model Number	Use Repair Part Kit:
AHP-15T (10500)	PAT1053K1
AHP-25TP (10502)	PAT1105K
AHP-35T (10504)	910018AK1

AHP-35T (10504)

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CAUTION

AHP Air Hydraulic Pumps and all tire tools, should be used only by persons properly trained according to OSHA regulation #29CFR1910.177, "Servicing Single-Piece & Multi-Piece Wheels."

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Figure 1 - AHP-15T (10500) & AHP-25TP (10502) Reservoir Cover & Treadle

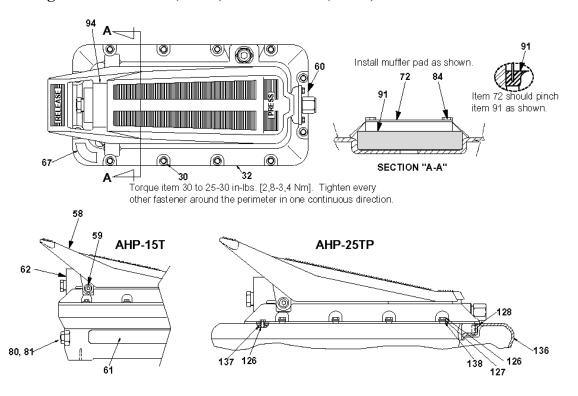
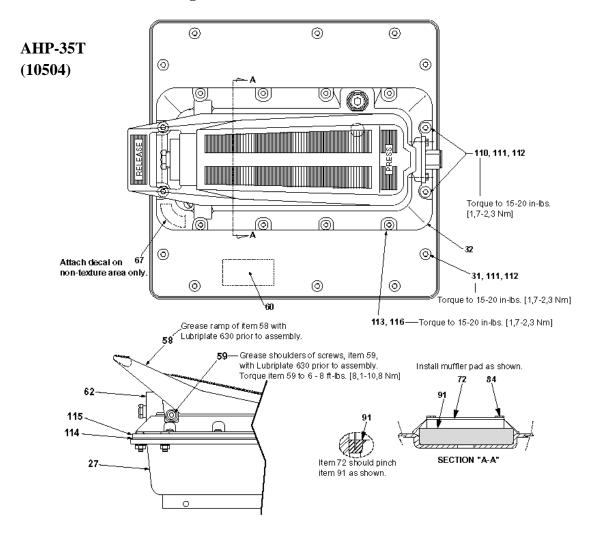


Figure 2 - AHP-35T (10504) Reservoir Cover & Treadle





			REPAIR PARTS LIST FO	OR FIG	URES 1 and 2		
Item	Part Number	Qty.	Description	Item	Part Number	Qty.	Description
27	DA5528025	1	3.5 Qt. Reservoir (AHP- 15T)	84	CU874028	2	Screw
	DC975286	1	5 Qt. Reservoir (AHP- 25TP)	91	DA8625116	1	Muffler
	DA11741025	1	2 Gal Reservoir (AHP- 35T)	94	DA6773026	1	Decal
30	DA5938028	16	Hi Lo Screw (AHP-15T)	110	★ DA6197028	4	Screw (AHP-35T)
31	B2525028	10	BHC Screw	111	B1001122	14	Hex Nut (AHP-35T)
32	DA4890020SR	1	Yellow Cover Ass.y See Figure 3.	112	B1015066	14	Washer (AHP-35T)
58	DA4849218	1	Treadle	113	★ DC1063108	8	Sealing Washer (AHP-35T)
59	DA4236242	2	Shoulder Screw	114	★ DA11720037	1	Resv. Gasket (AHP- 35T)
60	DA10143026	1	Model Number Decal (blank)	115	DA11730101	1	Plate (AHP-35T)
61	DC1146026	1	ESCO Decal (AHP-15T, AHP-35T)	116	B2521028	8	BHC Screw (AHP- 35T)
	DC825026	1	ESCO Decal (AHP-25TP)	126	DC1161046	16	Hex Hd. Mach. Screw (AHP-25TP)
62	DA4836900SR	1	Release Valve Ass.y See Figure 9.	127	*DC1162108	12	Sealing Washer (AHP-25TP)
67	DA5789026	1	Caution Decal	128	★ DC714517	1	O-Ring Gasket Cover (AHP-25TP)
72	DA5690098	1	Muffler Cover	137	DC973101	2	Plate Reservoir Cover (AHP-25TP)
80	DC85900SR	1	Sight Glass Ass.y. (AHP-15T, AHP-25TP)	138	*DC1160186	12	Nylon Spacer (AHP- 25TP)
81	B1016123	1	Hex Nut (AHP-15T, AHP- 25TP) Included in DC85900SR (above)				
★ Iter	ns included in and	availab	ole only as part of Repair Kit.	See fror	nt cover for the cor	rect Re	epair Kit for your pump.



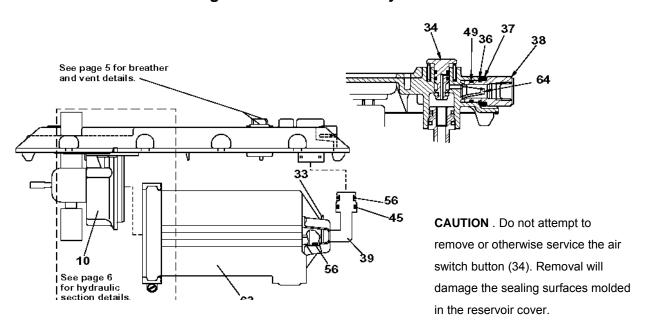


Figure 3 - Cover Assembly Side View

Replacement Reservoir Cover Includes:

1. air button assembly (34)

2. reservoir safety relief (44,65,66,75)

5. valve block-hydraulic tube seals (50, 51)

6. valve block gasket (95)

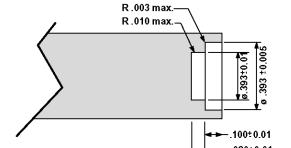
See Item 32 on page 2 for part numbers for the

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	REPAIR PARTS LIST FOR FIGURE 3							
Item	Part Number	Quantity	Description	Item	Part Number	Quantity	Description	
10	DA4287111	1	Mounting Bracket	39	DA7059900	1	Elbow Assembly	
33	HPP179017	1	Retaining Ring	45	★ DA5521149	1	Retaining Pin	
34	not serviceable	1	Air Button Assembly	49	★ B1220503	1	O-Ring	
36	HDA5026349	1	Retaining Ring	56	* B1009503	2	O-Ring (included with DA7059900 Elbow Assembly above)	
38	DA5295034	1	Swivel Coupler	63	DA4283900SR	1	Air Motor Assembly	
				64	★ DA5015118SR	1	Filter	

Figure 4- Cover Assembly Tool

Use the cover assembly tool to push the retaining ring (Figure 5, item 132) onto the poppet (Figure 5, item 130).





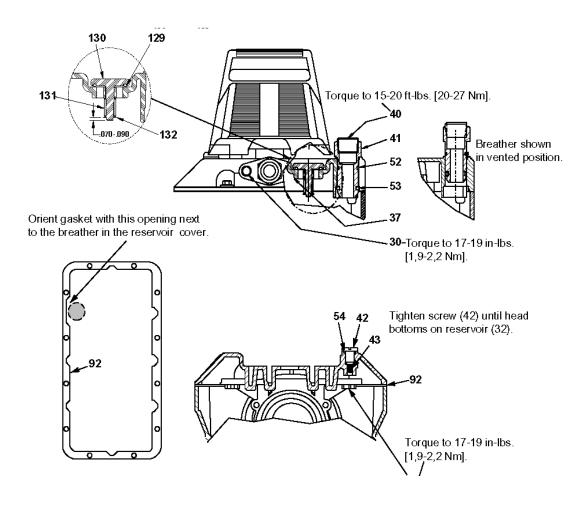


Figure 5 - Reservoir End View

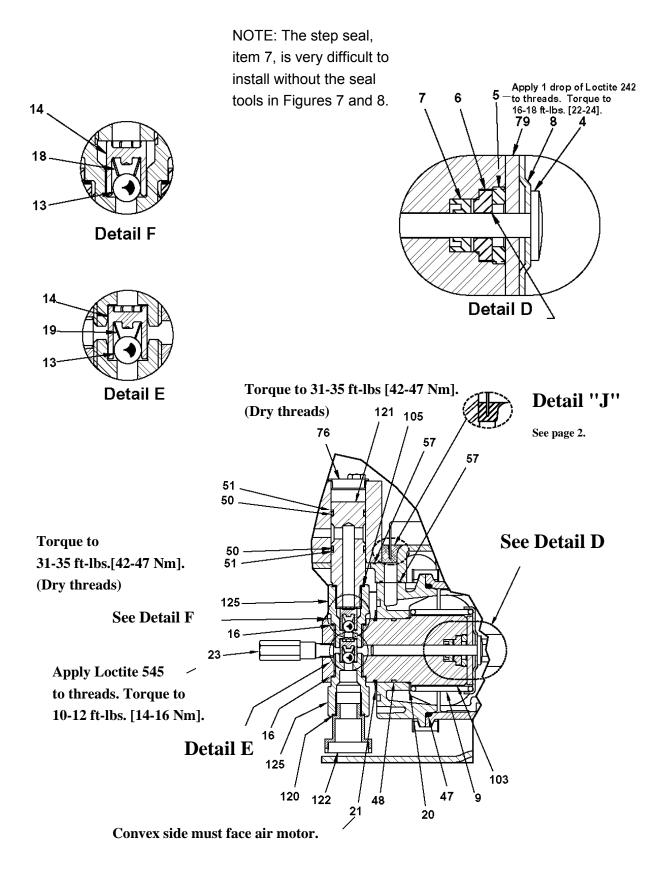
	REPAIR PARTS LIST FOR FIGURE 5							
Item	Part Number	Quantity	Description	Item	Part Number	Quantity	Description	
30	DA5938028	6	Hi Lo Screw	54	★ B1005503	1	Seal	
37	DA4847799	1	Stamped Bracket	92	★ DA6328167	1	Resv. Gasket (AHP-15T)	
40	†A1009245	1	Plug		★ DA7933167	1	Resv. Gasket (AHP-35T)	
41	DA4871118SR	1	Breather Assembly	129	▲ ★ DC1224503	1	O-Ring	
42	DC1522028	1	Phillips Head Screw	130	★ DC708044SR	1	Cover Relief Assembly	
43	DA4390118	1	Filter	131	▲ ★ DC821110	1	Compression Spring	
52	† ▲ ★DA5349503	1	Wear Coated O-Ring	132	▲ ★ DC822044	1	Star Washer	
53	† ★ B1010503	1	O-Ring					

[★]Items included in and available only as part of Repair Kit. See front cover for the correct Repair Kit for your pump. † Included as part of breather assembly DA4871118SR.

[▲] Included as part of cover Relief Assembly DC708044SR.



Figure 6 - Hydraulic Section Detail



REPAIR PARTS LIST FOR FIGURE 6							
Item	Part Number	Quantity	Description	Item	Part Number	Quantity	Description
4	CB180040	1	Plunger	48	★ B1258503	1	O-Ring
5	★ DA1204044	1	Bearing Retainer	50	★ B1016803	2	O-Ring
6	★ CB624108	1	Back-Up Bearing	51	★ DA4974367	2	Back-Up Ring
7	HCB918041	1	U-Cup	57	★ DA12342037	1	Gasket Set
8	DA4284108	1	Spring Washer	76	*DA5854009	1	Caplug
9	DA4285110	1	Spring	79	*DA6600108	1	Rubber Washer
13	HB1007016	1	Ball	103	DC114030	1	Cylinder
14	HDA3682013	2	Ball Guide	105	*DC170167	1	Copper Gasket
16	HDA3811167	2	Copper Gasket	120	★ B1221503	1	O-Ring
18	DA4874110	1	Conical Spring	121	DC5268SR	1	Pressure Tube Ass.y.
19	HDA6911210	1	Conical Spring	122	DC442900SR	1	Intake Tube Ass.y. (AHP-15T, AHP-25T)
20	★ DA4298108	1	Washer		DC460900SR	1	Intake Tube Ass.y. (AHP-35T)
21	★ DA4343044	1	Bowed Retaining Ring	105	* DC170167	1	Copper Gasket
23	DA8802900SR	1	Relief Valve Assembly	125	DC283290SR	2	Seat
47	★ B1282503	1	O-Ring		•	•	•

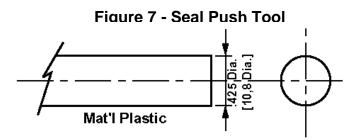
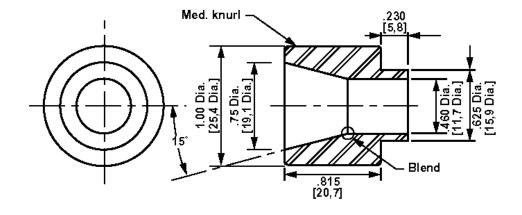


Figure 8^{Dim}Sears Guidentool

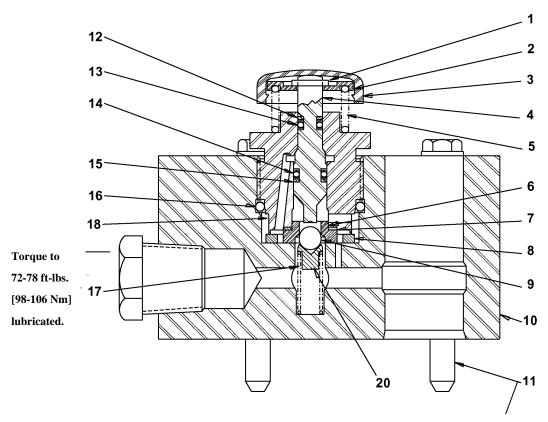


Mat'l Plastic

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Figure 9 - Release Valve



Torque to 17-19 in-lbs. [1,9-2,2 Nm]

	REPAIR PARTS LIST FOR FIGURE 9							
Item	Part Number	Qty.	Description	Item	Part Number	Qty.	Description	
1	★ DA5025349	1	Retaining Ring	11	DA4294028	4	Thread Forming Screw	
2	DA4848108	1	Spring Washer	12	★ B1006564	1	Back-Up Washer	
3	★ DA4831020	1	Cap	13	★ B1001503	1	O-Ring	
4	DA4832040	1	Release Plunger	14	★ B1003503	1	O-Ring	
5	★ DA6971110	1	Spring	15	★ B1008564	1	Back-Up Washer	
6	★ CB581290	1	Ball Seat	16	★ B1118903	1	O-Ring	
7	★ P20037	1	Gasket	17	* CJ656110	1	Spring	
8	★ CL344167	1	Gasket	18	DA4872013SR	1	Release Guide Ass.y.	
9	★ B1006016	1	Ball	20	★ DA7572013	1	Ball Guide	
10	DA4836900SR	1	Complete Valve Ass.y.			•		

★Items included in and available only as part of Release Valve Repair Kit DA4836900K1.

One Release Valve Repair Kit is included in the Pump Repair Kit. See front cover for the correct Repair Kit for your pump.

