

Repair Parts Sheet

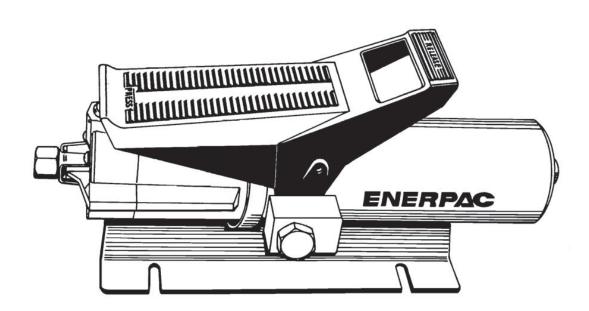
PA-133, 7001, PA-135, PA-136 AIR HYDRAULIC PUMP

L1252 Rev. N 10/15

PA135 - For Date Codes Beginning with the Letter "A" or "B" PA133, 7001 & PA136 - For Date Codes Beginning with the Letter "C" or "D"

To Protect Your Warranty, Use Only ENERPAC Hydraulic Oil.

Enerpac recommends that all kit components be installed to insure optimum performance of the repaired product.



PA-133, 7001, PA-135, PA-136 Air Hydraulic Pump

			Repair Parts List for Figure 1	
Item	Part Number	Qty.	Description	Fig. No.
1	DA5816900SR	1	Air Motor Assembly	
2A	CH210110	1	Spring	
2BB	*	1	Ball Seal	
2CC	*	1	O-Ring	
2D	*	2	Ball Seat	
2DD	CF318028	4	Cap Screw	
2E	*	2	Ball	
2EE	*	1	Conical Spring	
2FF	*	1	Filter	
2G	CH411013	1	Ball Guide	
2H	*	1	Ball	
2HH	DC1563013	1	Ball Guide	
2L	CH202950SR	1	Relief Valve Assy. (PA133 & PA135) (incl. items 9, 10, 14)	4
2L	CH207950SR	1	Relief Valve Assy. (PA136) (incl. items 9, 10, 14)	4
2N	DA2686299SR	1	Coupling V-Retainer	
2Z	*	1	Gasket	
5	A8009108SR	1	Washer (PA133) (incl. items 2A, 8, 52)	
5	DA1221108SR	1	Washer (PA135) (incl. items 2A, 8, 52)	
5	A8015108SR	1	Washer (PA136) (incl. items 2A, 8, 52)	
6	DA5290900SR1	1	Release Guide Assembly (incl. items 2BB, 2DD, 2EE, 2Z, 10)	2
7	CH203950SR	1	Hydraulic Cylinder Assy (PA133, 7001) (incl. items 2D, 2E, 8, 10)	5
7	DA1227950SR	1	Hydraulic Cylinder Assembly (PA135) (incl. items 2D, 2E, 8, 10)	5
7	CH208950W	1	Hydraulic Cylinder Assembly (PA136) (incl. items 2D, 2E, 8, 10)	5
8	CB180040	1	Plunger (PA133)	
8	DA1219040	1	Plunger (PA135)	
8	CB185040	1	Plunger (PA136)	
9	*	1	Ball Seat	
10	*	4	Gasket	
11	CL166950SR	1	Hydraulic Body Assembly	
14	*	1	Plug	
19	*	1	Back-Up Washer	
24	CF692950W	1	Coupler Assembly (incl. items 2D, 2G, 2H, 10)	3
26	CB108005SR	1	Base	
27	B1320028	2	Screw	
29	CB241218W	1	Treadle	
31	CF180900SR	1	Reservoir Assembly	
32	CL164950SR	1	Reservoir Cap (incl. item 19, 53)	
34	A8001018SR	1	Filter Kit	
35	CK352950SR	1	Poppet Guide Assembly	
36	CL163950SR1	1	Coupler Kit	
52	<u>★</u>	1	Rubber Washer	
53	<u> </u>	1	O-Ring	
54B	<u> </u>	1	Air Piston (new style)	
55B	<u> </u>	1	Glyd Ring	
56	•	1	O-Ring	

[★] Indicates items included in and available only as part of Pump Repair Kit PA133K3.

NOTE: The back-up washer, Item 19 (B1014565) may be purchased separately from Pump Repair Kit PA133K3.

NOTE: Changes have been made in the design of the shuttle piston, end cover, and air cylinder that improve air motor performance. The new parts will not work when used with the existing old-style parts. If one of these parts requires replacement, a complete new air motor (DA5816900SR) must be used.

[♦] Indicates items included in and available only as part of Air Piston Repair Kit CK354950SR.

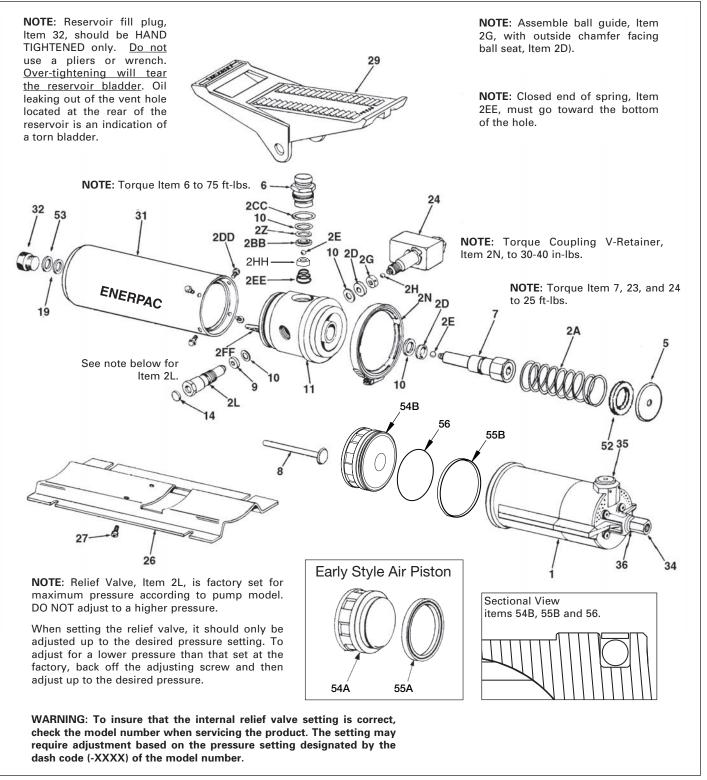


Figure 1, PA133, 7001, PA135, PA136 Air Hydraulic Pump

IMPORTANT:

Early style air piston assembly (items 54A and 55A) is no longer available.

If replacement is required, new style air piston assembly (items 54B, 55B and 56) must be used. Order Repair Kit CK354950SR.

To replace an early style air piston assembly:

- Remove early style style air piston (item 54A) and U-Cup seal (item 55A) from open end of air motor (item 1). These parts will not be reused and can be discarded.
- If not pre-installed, install O-Ring (item 56) and Glyd Ring (item 55B), into groove on new style air piston (item 54B).
- Apply grease to Glyd Ring (item 55B).
- Install new style air piston assembly (items 54B, 55B and 56) through open end of air motor (item 1).

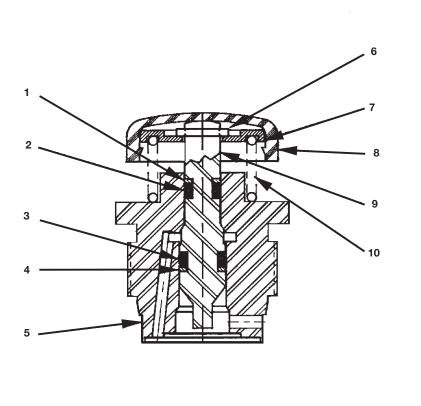


Figure 2, Release Plunger

Repair Parts List for Figure 2			
Item	Part Number	Qty.	Description
1	*	1	Back-Up Washer
2	*	1	O-Ring
3	*	1	O-Ring
4	*	1	Back-Up Washer
5	DA5290900SR1	1	Release Guide Assembly
6	*	1	Retaining Ring
7	DA4848108	1	Spring Washer
8	*	1	Cap
9	DA4832040	1	Release Plunger
10	*	1	Spring

[★] Indicates items included in and available only as part of Release Plunger Kit DA4832040KR.

NOTE: The Release Plunger Repair Kit (DA4832040KR) and Release Guide Assembly (DA5290900SR1) also include items 2BB, 2CC, 2E, 2EE, 2Z, and 10 from the Air Pump Assembly (Figure 1).

NOTE: Repair Kit PA133K3 includes (1) DA4832040KR.

NOTE: Pumps manufactured prior to November 1991 have a release plunger assembly that uses a roller in place of the cap now being used. The roller (CB923281), dowel pin (CH200061), and spring washer (CH198108) are available for service in Roller Replacement Kit CB923281SR. To replace the release plunger or release body, order a complete assembly (DA5290900SR1).

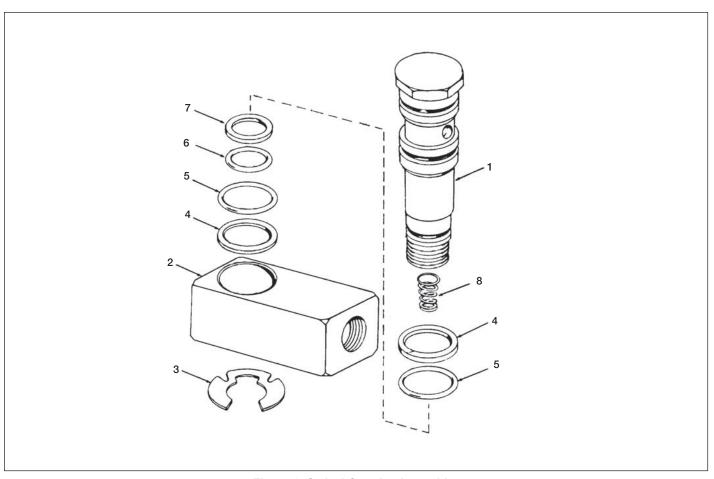


Figure 3, Swivel Coupler Assembly

Repair Parts List for Figure 3			
Item	Part Number	Qty.	Description
1	CJ205416	1	Coupler Stem
2	CJ204190	1	Coupler Body
3	*	1	Retaining Ring
4	*	2	Back-Up Washer
5	*	2	O-Ring
6	*	1	O-Ring
7	*	1	Back-Up Washer
8	*	1	Spring

[★] Indicates items included in and available only as part of Swivel Coupler Kit CF692950K1.

NOTE: The Swivel Coupler Kit (CF692950W) contains items 2D, 2H, and 10 from the Air Pump Assembly (Figure 1).

NOTE: Repair Kit PA133K3 includes (1) CF692950K1.

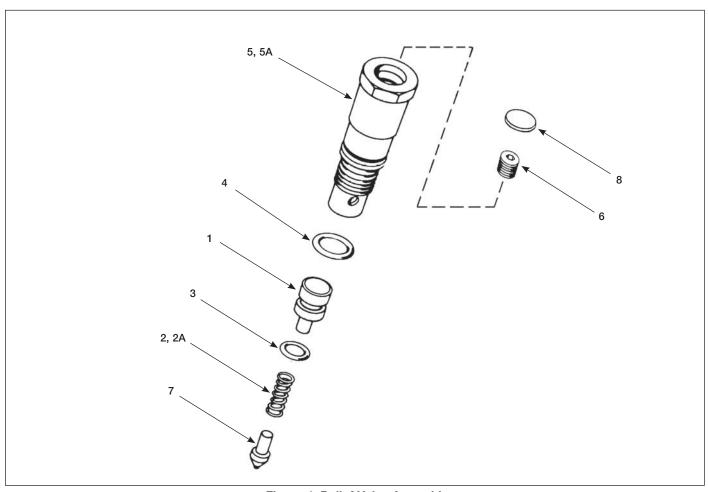


Figure 4, Relief Valve Assembly

	Repair Parts List for Figure 4			
Item	Part Number	Qty.	Description	
1	A8005007	1	Plug	
2	*	1	Spring (PA133 & PA135)	
2A	*	1	Spring (PA136)	
3	*	1	O-Ring	
4	*	1	O-Ring	
5	CH202950SR	1	Release Valve Assembly (PA133 & PA135)	
5A	CH207950SR	1	Release Valve Assembly (PA136)	
6	L86028	1	Set Screw	
7	CH180950W	1	Ball Guide Assembly	
8	*	1	Plug	

[★] Indicates items included in and available only as part of Relief Valve Repair Kit CH202950K.

NOTE: The Relief Valve Repair Kit also includes Items 9 and 10 from the Air Pump Assembly, Figure 1.

NOTE: Relief Valve Repair Kit CH202950K contains two sizes of springs (item 2/2A). Use the spring from the kit that matches the spring removed from the relief valve.

NOTE: Repair Kit PA133K3 includes (1) CH202950K.

NOTE: Relief valve adjustments should only be performed by an Enerpac Authorized Service Center utilizing prescribed procedures and proper test equipment.

Apply one drop of Loctite #242 to threads or stake threads in Item 7 in only one place after assembly.

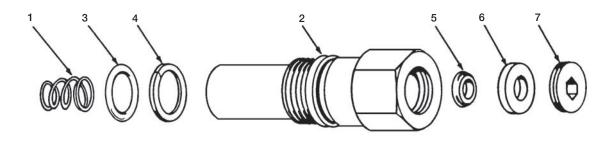


Figure 5, Hydraulic Cylinder

- 1			for Figure 5
Item	Part Number	Qty.	Description
Model P	A133, 7001		
1	*	1	Spring
2	CH203950SR	1	Hydraulic Cylinder Assembly
3	*	1	O-Ring
4	*	1	Back-Up Washer
5	*	1	U-Cup
6	*	1	Back-Up Bearing
7	*	1	Bearing Retainer
Model P	A135		
1	*	1	Spring
2	DA1227950SR	1	Hydraulic Cylinder Assembly
3	*	1	O-Ring
4	*	1	Back-Up Washer
5	*	1	U-Cup
6	*	1	Back-Up Bearing
7	*	1	Bearing Retainer
Model P	A136		
1	*	1	Spring
2	CH208950W	1	Hydraulic Cylinder Assembly
3	*	1	O-Ring
4	*	1	Back-Up Washer
5	*	1	U-Cup
6	*	1	Back-Up Bearing
7	*	1	Bearing Retainer

[★] Indicates items included in and available only as part of Hydraulic Cylinder Repair Kit HCRK1.

NOTE: HCRK1 is a universal kit and will service any of the three hydraulic cylinders listed.

NOTE: Hydraulic Cylinder Repair Kit HCRK1 also includes Items 2D, 2E, and 10 from the Air Pump Assembly (Figure 1).

NOTE: Repair Kit PA133K3 includes (1) HCRK1.

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