Date: May 2, 2013

MALABAR



INTERNATIONAL

AIRCRAFT MAINTENANCE & SUPPORT EQUIPMENT

OWNER'S MANUAL FOR MALABAR MODEL

PF54124-8PWS

2 GALLON FLUID DISPENSER

READ AND SAVE

THIS INSTRUCTION MANUAL

- * GENERAL DESCRIPTION
- * OPERATION
- * SERVICE
- * PARTS BREAKDOWN

For Service & Spare

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OVER 65 YEARS OF SERVICE & EXPERIENCE

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GENERAL DESCRIPTION, OPERATION, SERVICE AND PARTS BREAKDOWN

MALABAR MODEL PF54124-8PWS 2 GALLON FLUID DISPENSER

CAUTION: AIRCRAFT MANUFACTURER'S SPECIFICATIONS AND

INSTRUCTIONS MUST BE FOLLOWED. IN THE EVENT OF

CONTRADICTION BETWEEN AIRCRAFT

MANUFACTURER'S SPECIFICATIONS AND MALABAR'S,

AIRCRAFT MANUFACTURER'S WILL PREVAIL.

SPECIFICATIONS:

Fluid	MIL-PRF-83282	
Reservoir capacity	2 U.S. gal	7.6 liters
Pump outlet pressure	100 psig	689 kPa
Volume per stroke	2.5 cubic in	41 cc
Relief valve setting	125 ± 10 psig	$862 \pm 69 \text{ kPa}$
Hose length	84 in	2134 mm
Net weight (empty)	12 lbs	5.4 kg
Filter rating		_
Fluid tank color	red	

GENERAL DESCRIPTION:

The Malabar Model PF54124-8PWS is a 2 gallon fluid dispenser used to service various commercial aircraft. The hand pump dispenser consists of a reservoir, pump assembly, relief valve, water stop filter assembly, and a fluid delivery hose.

PREPARATION FOR USE:

The unit is shipped fully assembled. Fill reservoir at fillport with approved fluid. Operate hand pump assembly a few strokes to bleed all air out of the system. The unit is now ready for use.

OPERATION:

- 1. Remove dust plug from hose and connect the hose to the aircraft service point.
- 2. Use full steady pumping strokes when operating pump assembly during replenishing.
- 3. Disconnect the hose from the aircraft service point, replace the dust plug and store the unit in a dry, dust free location.

ILLUSTRATED PARTS LIST:

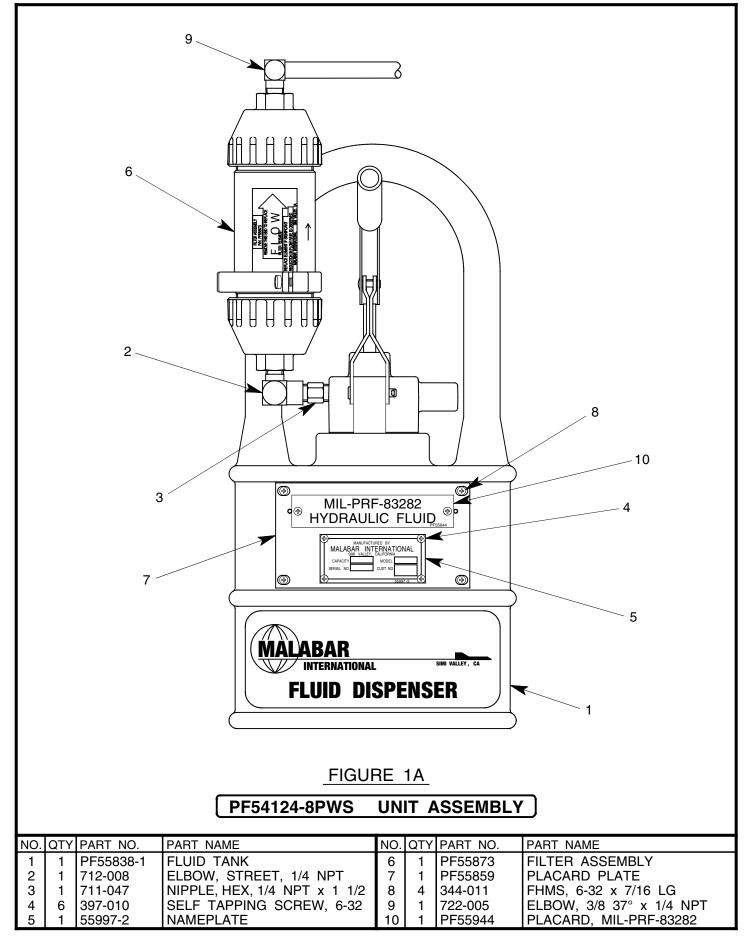
Refer to figure 1A & 1B for unit assembly (see sheets 3 & 4), figure 2 for pump assembly (see sheet 5) or figure 3 for filter assembly (see sheet 6).

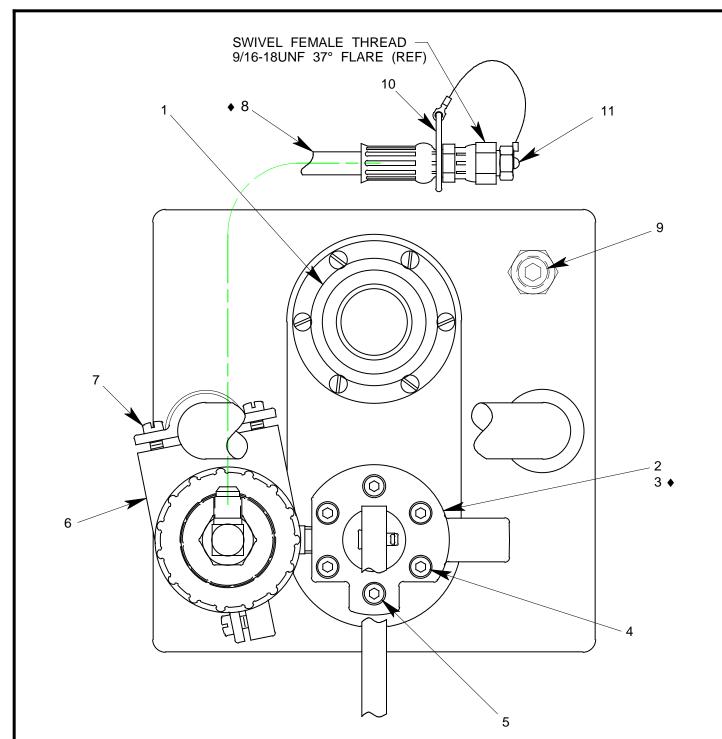
SERVICING:

- 1. The frequency of filter change depends on operating conditions. Generally, changes should be made every 3-4 months or sooner if more than normal resistance is felt on the pumping stroke at low pressure. Refer to item 10 in figure 3 (see sheet 6) to change element. Proper element must be installed, otherwise unit will not pump fluid.
- 2. NOTE: The relief valve should not be removed. The relief valve is set to by-pass oil back to the reservoir at 125 ± 10 PSIG.

REPAIR AND REPLACEMENT:

No definite time schedule can be established for the overhaul of the pump assembly for the replacement of the various moving parts. The number of times the pump assembly is operated materially affect the life of the working parts. The moving piston seal (item 6) and rod seal (item 11) are normally the first to wear (see sheet 5). This is usually indicated by leakage of fluid past the piston or rod. It is advisable to change piston seal (item 6), rod seal (item 11) and gasket (item 16) immediately if leakage is discovered. A repair parts kit (P/N PF2-41PK) is available and recommended to keep on hand at your facility. Refer to sheet 7 for the complete list of parts contained in the repair parts kit.



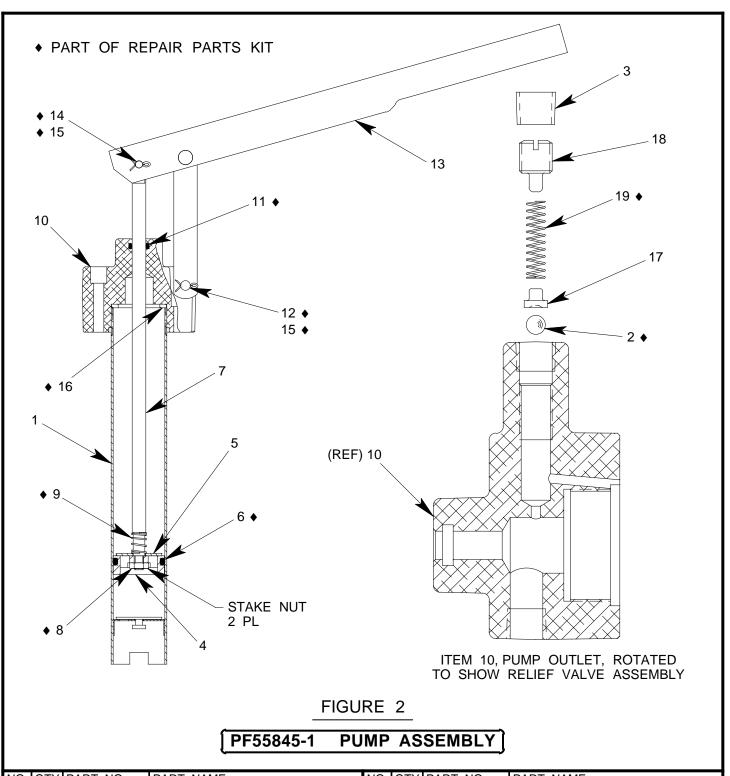


◆ PART OF REPAIR PARTS KIT

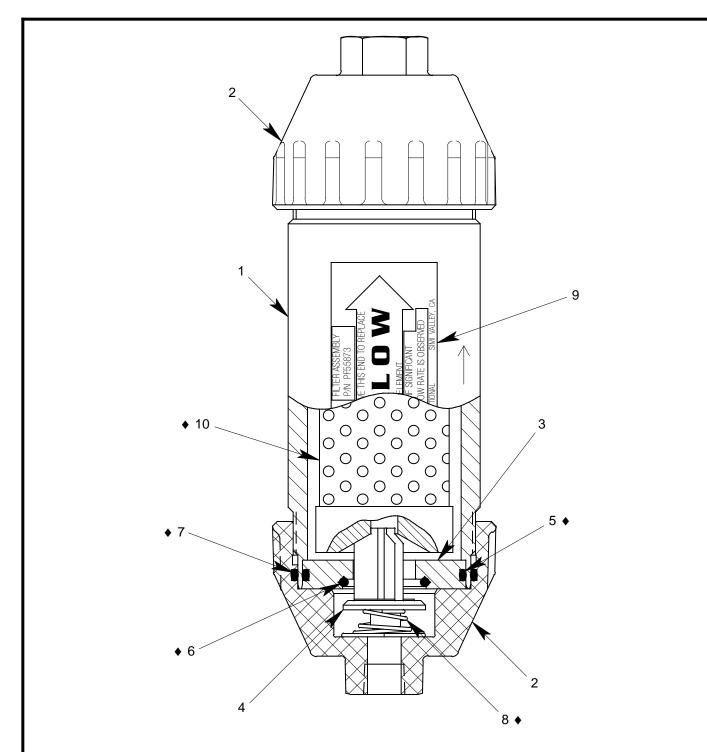
FIGURE 1B

PF54124-8PWS UNIT ASSEMBLY

NO.	QTY	PART NO.	PART NAME	NO.	QTY	PART NO.	PART NAME
1	1	PF55447	FILLPORT ASSEMBLY	7	3	342-010	SCREW, FIL HD, 1/4-20 x 1" LG
2	1	PF55845-1	PUMP ASSEMBLY	8	1	PF55456-1	HOSE ASSEMBLY
3	1	PF55672	GASKET	9	1	717-007	PLUG, 3/8 NPT
4	5	323-038	SHCS, 1/4-28 x 1 3/4 LG	10	1	491-017	S-HOOK
5	1	323-063	SHCS, 1/4-28 x 1" LG	11	1	PF55507-6	DUST PLUG & CABLE ASSY
6	1	PF55871-1	YOKE CLAMP				



NO.	QTY	PART NO.	PART NAME	NO.	QTY	PART NO.	PART NAME
1	1	PF53376	TUBE ASSEMBLY	11	1	55925-110	O-RING
2	1	412-004	STEEL BALL, 1/4 DIA	12	1	373-006	FH PIN, 1/4 DIA x 1 9/32 LG
3	1	717-006	PLUG, 1/4 NPT	13	1	494-017	HANDLE ASSEMBLY
4	1	PF53379	PISTON	14	1	AN393-17	FH PIN, 3/16 DIA x 17/32 LG
5	1	PF53380	PISTON CHECK DISC	15	2	372-011	COTTER PIN, 1/16 x 1/2 LG
6	1	55925-216	O-RING	16	1	PF54063	GASKET
7	1	PF53378	PUMP PISTON ROD	17	1	55153	SPRING GUIDE
8	1	352-011	HEX JAM NUT, 1/4-28	18	1	55148	SET SCREW
9	1	PF53406	SPRING	19	1	495-038	SPRING
10	1	PF55820-1	PUMP OUTLET				



◆ PART OF REPAIR PARTS KIT

FIGURE 3

PF55873 FILTER ASSEMBLY

NO.	QTY	PART NO.	PART NAME	NO.	QTY	PART NO.	PART NAME
1	1	PF55849	FILTER HOUSING	6	1	55925-120	O-RING
2	2	PF55852	FILTER HOUSING END CAP	7	2	55925-140	O-RING
3	1	PF55853	RETAINER DISC	8	1	495-039	SPRING
4	1	PF55850	RETAINER VALVE	9	1	PF55872	DECAL, FLOW
5	1	55925-135	O-RING	10	1	481-068	FILTER ELEMENT

PF2-41PK REPAIR PARTS KIT QTY PART NO. PART NAME PF55456-1 HOSE ASSEMBLY 55925-216 O-RING 55925-110 **O-RING** 1 **SPRING** 1 PF53406 373-006 FLAT HEAD PIN, 1/4 DIA x 1 9/32 LG 1 COTTER PIN, 1/16 x 1/2 LG 372-011 FLAT HEAD PIN, 3/16 DIA x 17/32 LG AN393-17 PF54063 **GASKET** 495-038 **SPRING** 412-004 STEEL BALL, 1/4 DIA 1 55925-135 O-RING 55925-120 **O-RING** 2 55925-140 **O-RING SPRING** 495-039 FILTER ELEMENT 481-068 1 352-011 HEX JAM NUT, 1/4-28 1 PF55672 **GASKET** PF2-41PKDOC REPAIR PARTS KIT LIST