Date: May 28, 2004

MALABAR



INTERNATIONAL

AIRCRAFT MAINTENANCE & SUPPORT EQUIPMENT

OWNER'S MANUAL FOR MALABAR MODEL

PF53361-47PWS

2 GALLON FLUID DISPENSER

READ AND SAVE

THIS
INSTRUCTION
MANUAL

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

For Service & Spare

Parts, Please Contact: Malabar International

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OVER 65 YEARS OF SERVICE & EXPERIENCE

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MALABAR MODEL PF53361-47PWS 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	MOBIL JET II	
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		862 ± 69 kPa
Hose length	84 in	2134 mm
Net weight (empty)	12 lbs	5.4 kg
Filter rating	1 micron nominal	•
Fluid tank color	green	

GENERAL DESCRIPTION:

The Malabar Model PF53361-47PWS 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, lockable fillport 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. 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 and store the unit in a dry, dust free location.

ILLUSTRATED PARTS LIST:

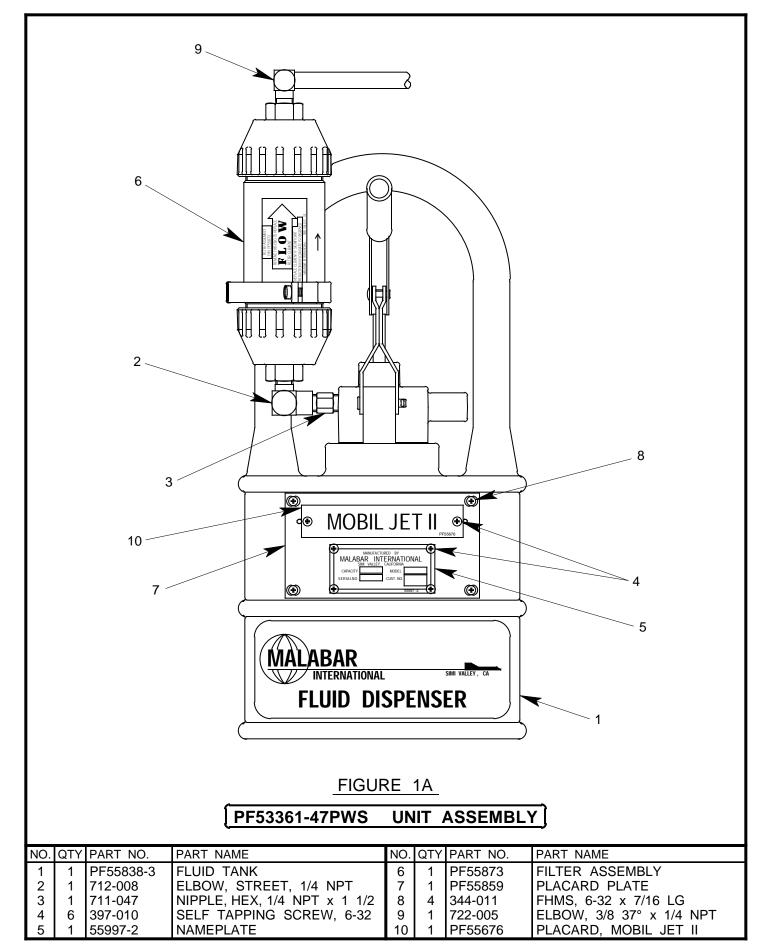
Refer to figure 1A & 1B for unit assembly (see sheets 3 & 4), figure 2 for pump assembly (see sheet 5) or figure 3 for filter assembly (see sheet 6).

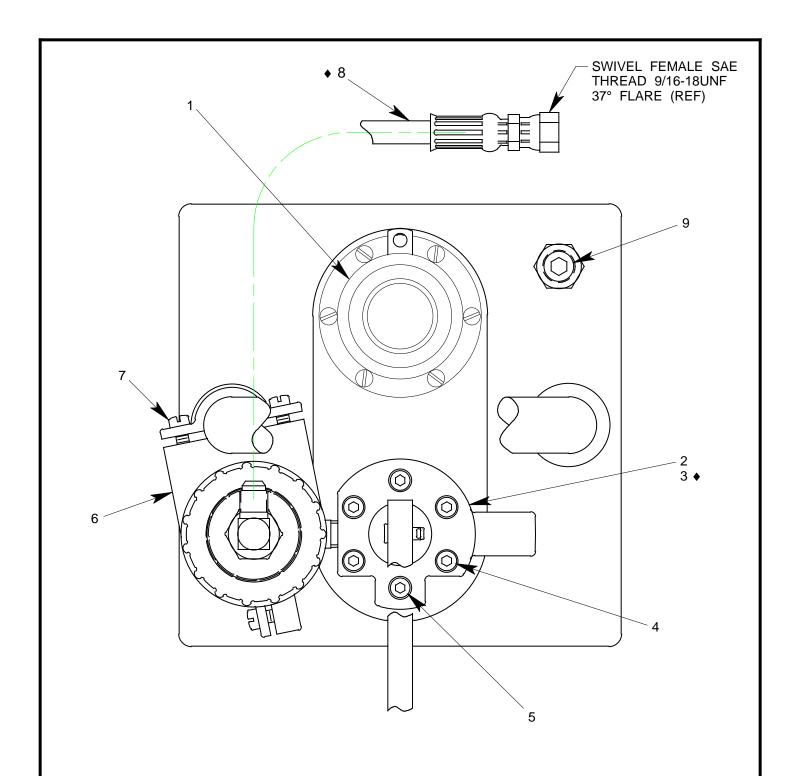
SERVICING:

- 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 bypass 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.



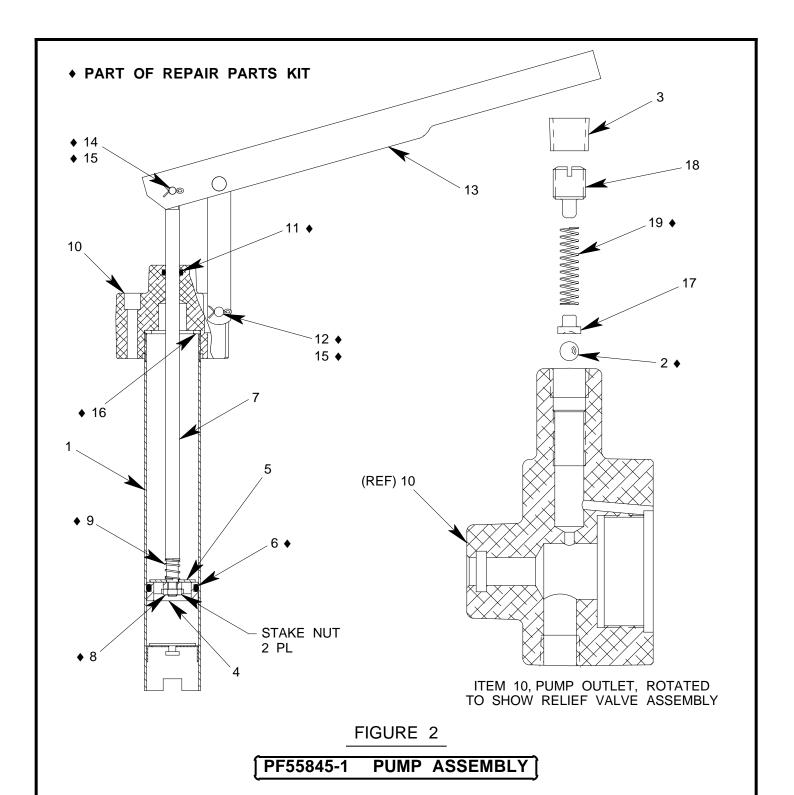


◆ PART OF REPAIR PARTS KIT

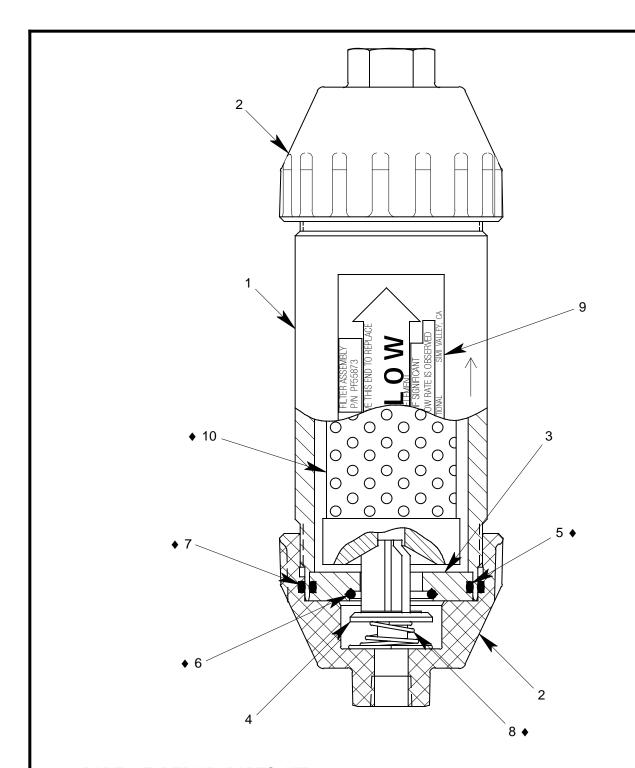
FIGURE 1B

PF53361-47PWS UNIT ASSEMBLY

NO.	QTY	PART NO.	PART NAME	NO.	QTY	PART NO.	PART NAME
1	1	PF55921	FILLPORT ASSY, LOCKABLE	6	1	PF55871-1	YOKE CLAMP
2	1	PF55845-1	PUMP ASSEMBLY	7	3	342-010	SCREW, FIL HD, 1/4-20 x 1" LG
3	1	PF55672	GASKET	8	1	PF55456-1	HOSE ASSEMBLY
4	5	323-038	SHCS, 1/4-28 x 1 3/4 LG	9	1	717-007	PLUG, 3/8 NPT
5	1	323-063	SHCS, 1/4-28 x 1" LG				



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



◆ 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

ART NAME PART NAME 1 PF545456-1 ORING ORING ORING SPRING SPRING SPRING ORING SPRING ORIGING ORIGIN		_	(112 11111 11217 1111)
1 55925-216 O-RING 1 PF53406 SPRING 1 373-006 FLAT HEAD PIN, 1/4 DIA x 1 9/32 LG 2 372-011 COTTER PIN, 1/16 x 1/2 LG 1 AN393-17 FLAT HEAD PIN, 3/16 DIA x 17/32 LG 1 PF54063 GASKET 1 495-038 SPRING 1 412-004 STEEL BALL, 1/4 DIA 1 55925-135 O-RING 1 55925-135 O-RING 2 55925-140 O-RING 1 495-039 SPRING 1 481-068 FILTER ELEMENT 1 352-011 HEX JAM NUT, 1/4-28 GASKET	-		PART NAME
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1 352-011 HEX JAM NUT, 1/4-28 1 PF55672 GASKET			
1 PF55672 GASKET	1		
			HEX JAM NUT, 1/4-28
1 PF2-41PKDOC REPAIR PARTS KIT LIST			
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