Date: August 24, 2016

MALABAR



INTERNATIONAL

AIRCRAFT MAINTENANCE & SUPPORT EQUIPMENT

OWNER'S MANUAL FOR MALABAR MODEL

PF53361-108PWS

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 PF53361-108PWS 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	Petroleum-based	
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	$125 \pm 10 \text{ psig}$	862 ± 69 kPa
Hose length	84 in	2134 mm
Net weight (empty)	12 lbs	5.4 kg
Filter rating	1 micron nominal	J
Fluid tank color	green	

GENERAL DESCRIPTION:

The Malabar Model PF53341-108PWS 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, desiccant dryer, liquid level gauge and a fluid delivery hose.

PREPARATION FOR USE:

The unit is shipped fully assembled. Attach desired coupling to fillport elbow and fill reservoir 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:

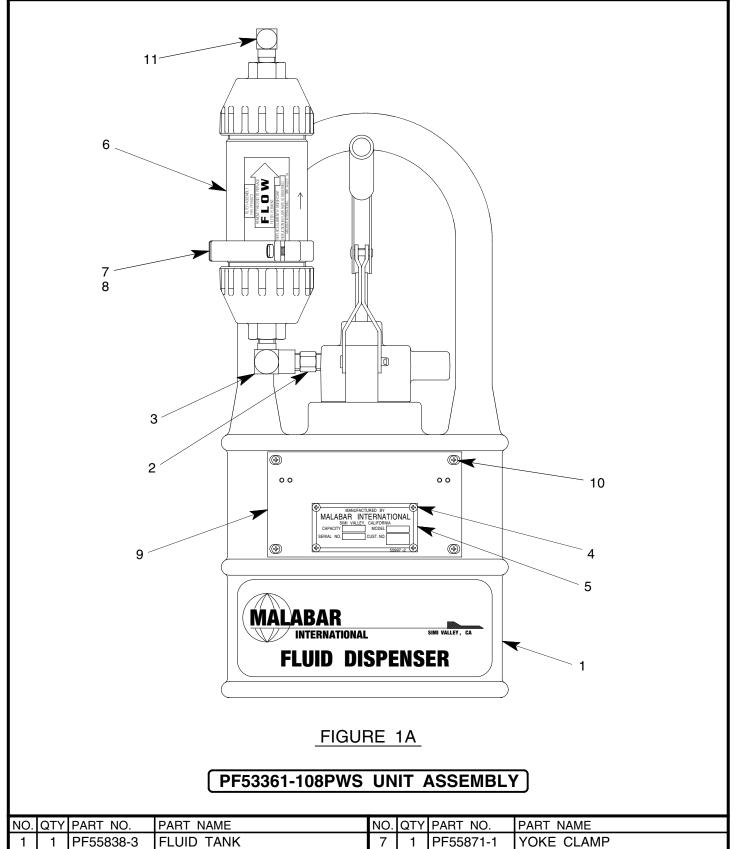
Refer to figure 1A & 1B for unit assembly (see sheets 3 & 4), figure 2 for pump assembly (see sheet 5) or figure 3 for filter assembly (see sheet 6).

SERVICING:

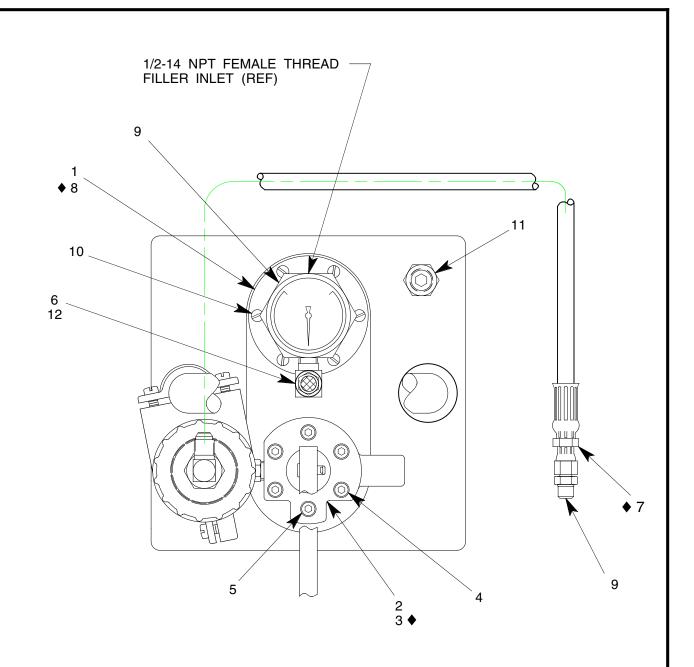
- 1. The frequency of filter change depends on operating conditions. Generally, changes should be made every 3-4 months or sooner if more than normal resistance is felt on the pumping stroke at low pressure. Refer to item 10 in figure 3 (see sheet 6) to change element. Proper element must be installed, otherwise unit will not pump fluid.
- 2. NOTE: The relief valve should not be removed. The relief valve is set to by-pass oil back to the reservoir at 125 ± 10 PSIG.
- 3. The frequency of desiccant dryer change depends on operating conditions. Generally changes should be made when the crystals inside the chamber change color from black to amber. Refer to item 13 in figure 1A (see sheet 3) to change desiccant dryer.

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 PF2-99PK) 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.



NO.	QTY	PART NO.	PART NAME	NO.	QTY	PART NO.	PART NAME
1	1	PF55838-3	FLUID TANK	7	1	PF55871-1	YOKE CLAMP
2	1	711-047	NIPPLE, 1/4 NPT	8	3	342-010	SCREW, FIL HD, 1/4-20 x 1" LG
3	1	712-008	ELBOW, STREET, 1/4 NPT	9	1	PF55859	PLACARD PLATE
4	4	397-010	SELF TAPPING SCREW, 6-32	10	4	344-011	FHMS, 6-32 x 7/16 LG
5	1	55997-2	NAMEPLATE	11	1	722-005	ELBOW, 3/8 37° x 1/4 NPT
6	1	PF55873	FILTER ASSEMBLY				

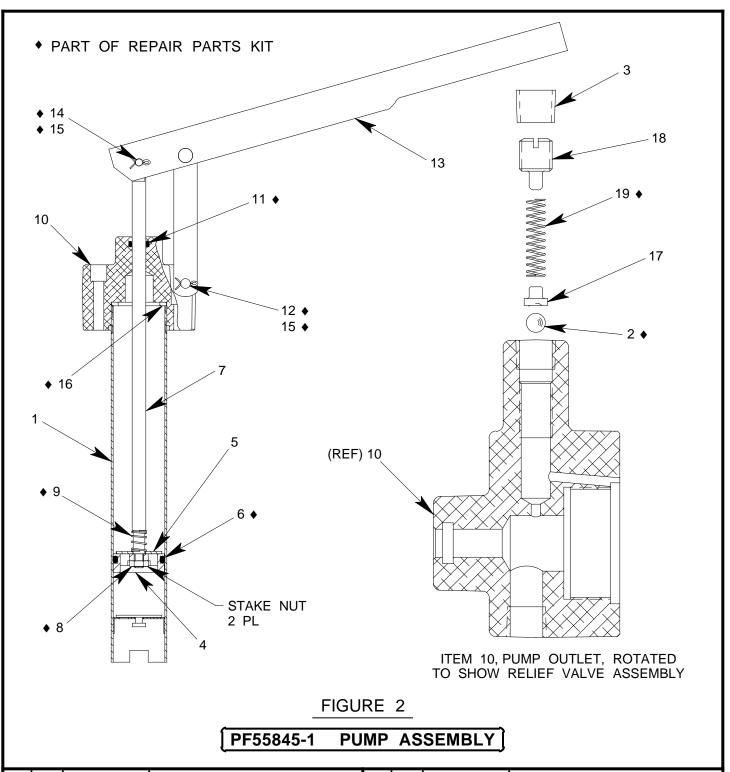


PART OF REPAIR PARTS KIT

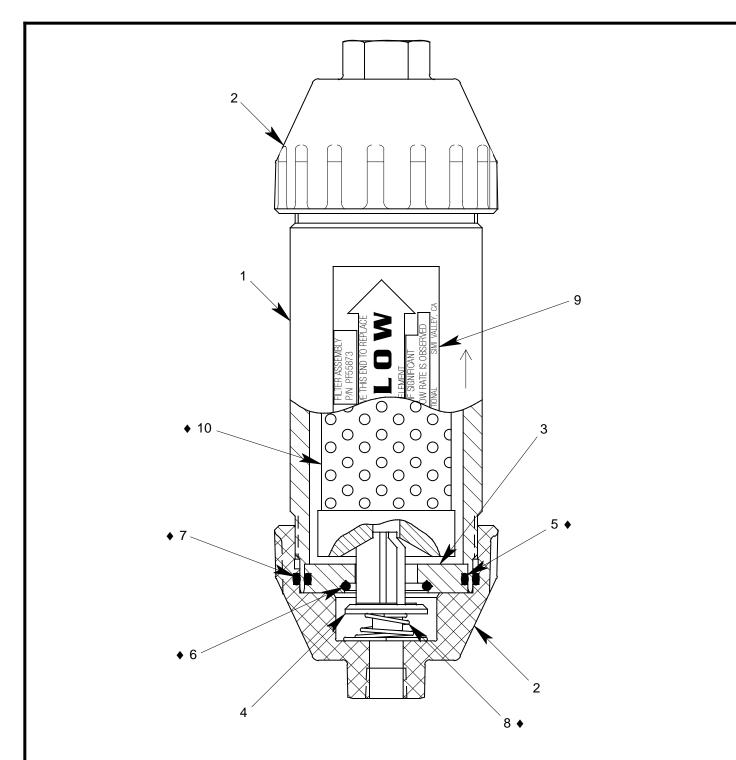
FIGURE 1B

PF53361-108PWS UNIT ASSEMBLY

NO.	QTY	PART NO.	PART NAME	NO.	QTY	PART NO.	PART NAME
1	1	PF56079	RISER	7	1	PF55456-1	HOSE ASSEMBLY
2	1	PF55845-1	PUMP ASSEMBLY	8	1	483-016	GASKET
3	1	PF55672	GASKET	9	1	721-042	CONNECTOR, 1/4 37° x 1/4 SAE
4	5	323-038	SHCS, 1/4-28 x 1 3/4 LG	10	6	341-009	RHCS, 10-32 x 1/2 LG
5	1	323-063	SHCS, 1/4-28 x 1" LG	11	1	717-007	PLUG, SOCKET HEAD
6	1	712-008	ELBOW, STREET, 1/4 NPT	12	1	483-005	BREATHER, 1/4 NPT



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

PF2-99PK REPAIR PARTS KIT QTY PART NO. PART NAME PF55456-6 HOSE ASSEMBLY 55925-216 O-RING 1 55925-110 **O-RING** PF53406 **SPRING** 1 FLAT HEAD PIN, 1/4 DIA x 1 9/32 LG 1 373-006 2 COTTER PIN, 1/16 x 1/2 LG 372-011 FLAT HEAD PIN, 3/16 DIA x 17/32 LG AN393-17 PF54063 **GASKET** 1 495-038 **SPRING** 1 412-004 STEEL BALL, 1/4 DIA 55925-135 1 O-RING **O-RING** 1 55925-120 2 O-RING 55925-140 **SPRING** 1 495-039 481-068 FILTER ELEMENT HEX JAM NUT, 1/4-28 1 352-011 1 PF55672 **GASKET** 1 483-016 GASKET, FLANGE PF2-99PKDOC REPAIR PARTS KIT LIST