Date: January 6, 2017

MALABAR



INTERNATIONAL

AIRCRAFT MAINTENANCE & SUPPORT EQUIPMENT

OWNER'S MANUAL FOR MALABAR MODEL

PF55966-28PWS

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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GENERAL DESCRIPTION, OPERATION, SERVICE AND PARTS BREAKDOWN

MALABAR MODEL PF55966-28PWS 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	Turbine oil	
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 ± 69 kPa
Hose length		1219 mm
Net weight (empty)	12 lbs	5.4 kg
Filter rating		-
Fluid tank color	Green	

GENERAL DESCRIPTION:

The Malabar Model PF55966-28PWS 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, pressure gauge, fluid meter and a fluid delivery hose with a coupling.

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

ILLUSTRATED PARTS LIST:

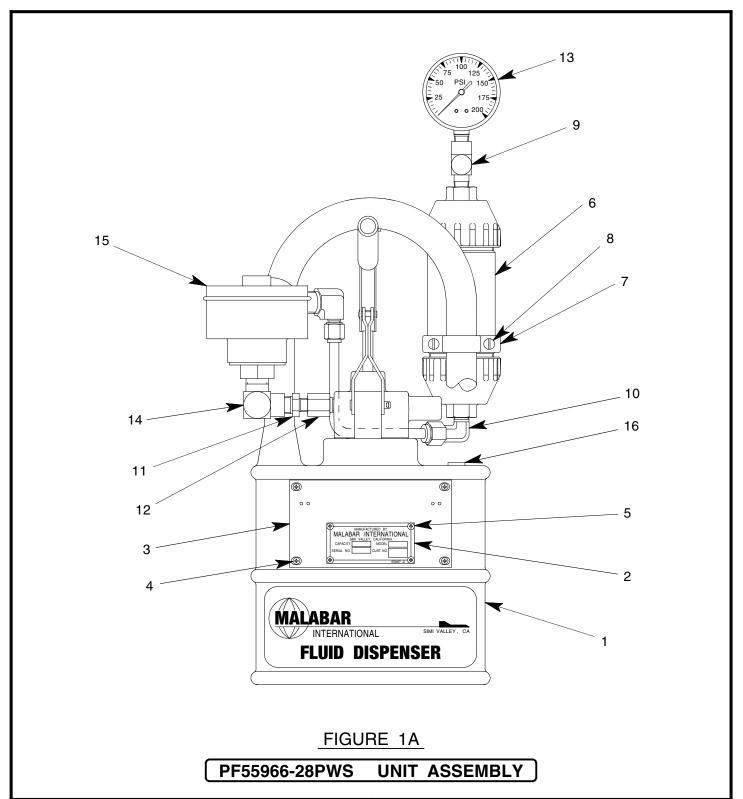
Refer to figure 1A & 1B for unit assembly (see sheets 3 & 4) or figure 2 for pump assembly (see sheet 5) or figure 3 for filter assembly (see sheet 6).

SERVICING:

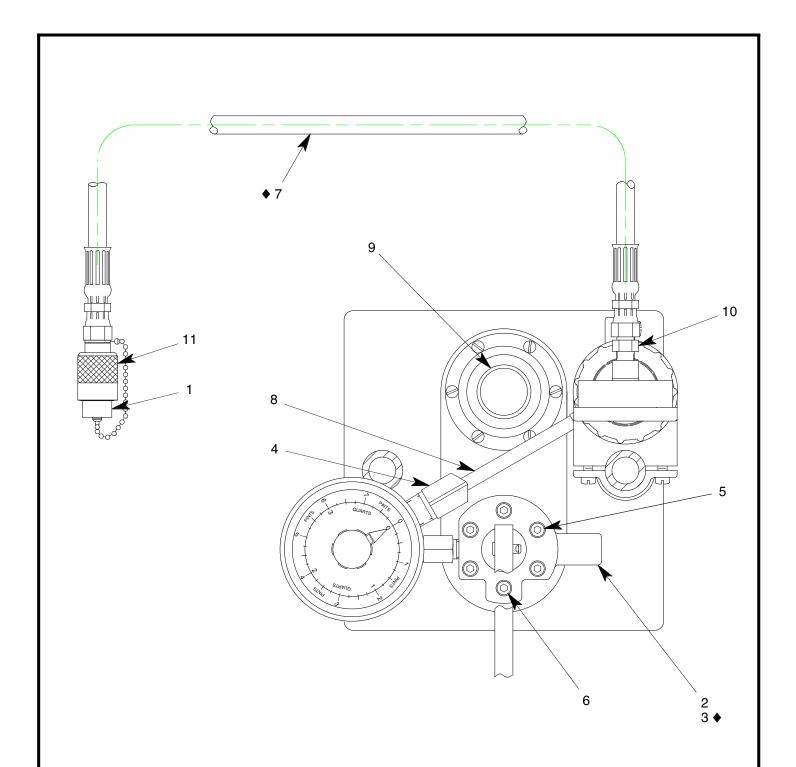
- 1. The frequency of filter change depends on operating conditions. Generally, changes should be made every 3-4 months or sooner if more than normal resistance is felt on the pumping stroke at low pressure. Refer to item 10 in figure 3 (see sheet 6) to change element. Proper element must be installed, otherwise unit will not pump fluid.
- 2. <u>NOTE:</u> 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.



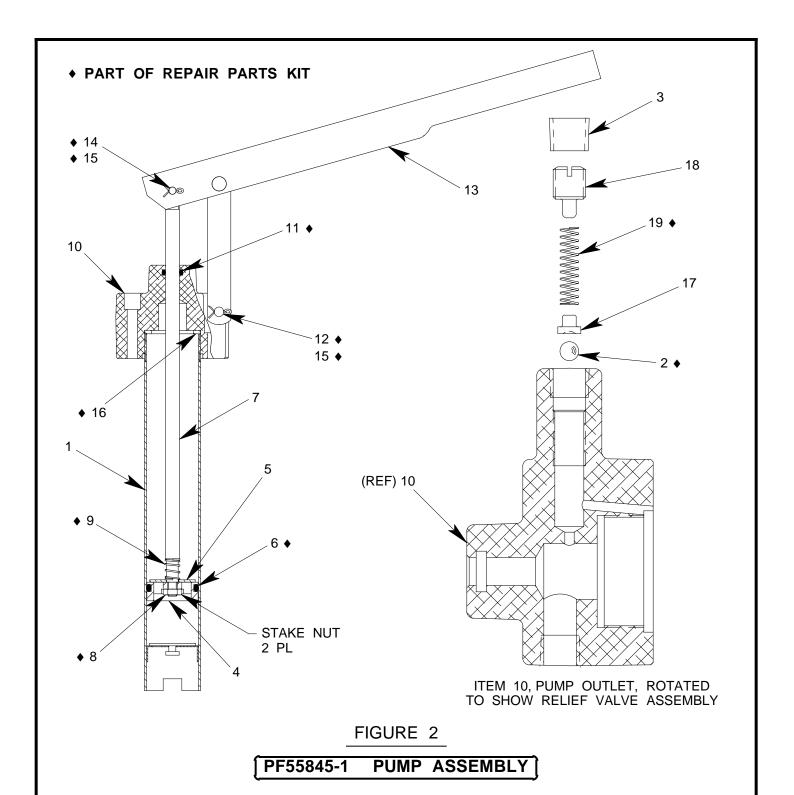
NO. QTY PART NO. PART NAME NO. QTY PART NO. PART NAME 1 1 PF55838-3 FLUID TANK 9 1 713-048 TEE, RUN, 1/4 NPT 2 1 55997-2 **NAMEPLATE** 10 1 717-007 ELBOW, 3/8 TUBE x 1/4 NPT 3 PF55859 PLACARD PLATE 711-018 NIPPLE, 3/8 NPT x 1/4 NPT 1 11 1 4 344-011 FHCS, 6-32 x 7/16 LG 714-017 BUSHING, 1/4 NPT 4 12 1 SELF TAPPING SCREW, 6-32 5 397-010 482-050 GAUGE, 0-200 PSIG 4 13 1 ELBOW, 1/2 NPT x 3/8 NPT PF55873 FILTER ASSEMBLY 712-032 6 1 14 1 7 YOKE CLAMP 15 FLUID METER 1 PF55871-1 486-024 8 SCREW, FIL HD, 1/4-20 x 1" LG 16 717-007 PLUG, 3/8 NPT 342-010



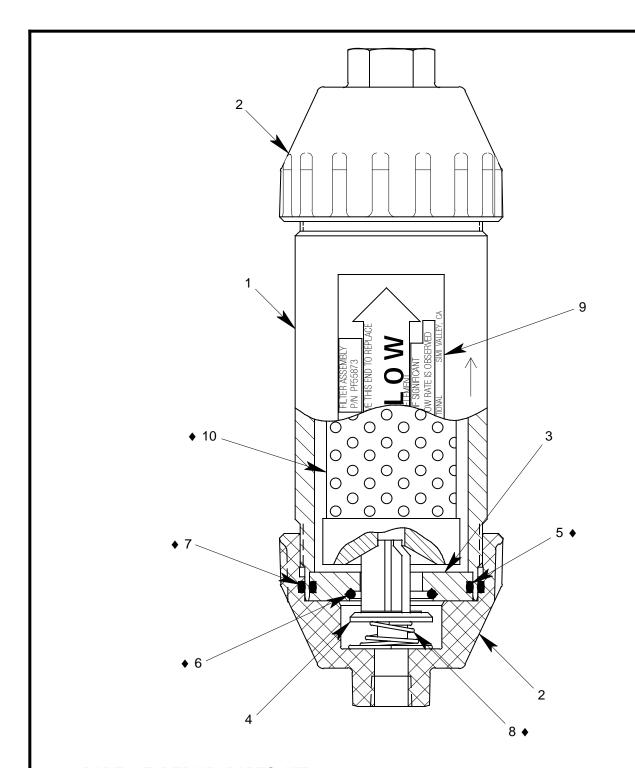
♦ PART OF REPAIR PARTS KIT FIGURE 1B

PF55966-28PWS UNIT ASSEMBLY

NO.	QTY	PART NO.	PART NAME	NO.	QTY	PART NO.	PART NAME
1	1	PF55987	DUST PLUG & CHAIN	7	1	PF55456-1	HOSE ASSEMBLY
2	1	PF55845-1	PUMP ASSEMBLY	8	AR	732-010	TUBING, 3/8 OD x .065 WALL
3	1	PF55672	GASKET	9	1	PF55447	FILLPORT ASSEMBLY
4	1	722-015	ELBOW, 3/8 TUBE x 1/2 NPT	10	1	721-004	CONN, 3/8 37° x 1/4 NPT
5	5	323-038	SHCS, 1/4-28 x 1 3/4 LG	11	1	736-013	COUPLING
6	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
1 55925-110 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 0-RING O-RING 2 55925-120 O-RING 1 495-039 SPRING 1 481-068 FILTER ELEMENT 1 352-011 HEX JAM NUT, 1/4-28 1 PF55672 GASKET			
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1 495-038 SPRING 1 412-004 STEEL BALL, 1/4 DIA 1 55925-135 O-RING 2 55925-120 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 1 PF55672 GASKET			
1 412-004 STEEL BALL, 1/4 DIA 1 55925-135 O-RING 1 55925-120 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 1 PF55672 GASKET			
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2 55925-140 O-RING 1 495-039 SPRING 1 481-068 FILTER ELEMENT 1 352-011 HEX JAM NUT, 1/4-28 1 PF55672 GASKET			
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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			
	1	PF2-41PKDOC	REPAIR PARTS KIT LIST