Date: August 7, 2015

MALABAR



INTERNATIONAL

AIRCRAFT MAINTENANCE & SUPPORT EQUIPMENT

OWNER'S MANUAL FOR MALABAR MODEL

PF55966-24PWS

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 PF55966-24PWS 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		689 kPa
Volume per stroke	2.5 cubic in	41 cc
Relief valve setting	$125 \pm 10 \text{ psig}$	862 ± 69 kPa
Hose length	48 in	1219 mm
Net weight (empty)	12 lbs	5.4 kg
Filter rating	1 micron nominal	J
Fluid tank color	blue	

GENERAL DESCRIPTION:

The Malabar Model PF55966-24PWS 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, pressure gauge, fluid meter and a fluid delivery hose with a coupling and a gravity fill adapter assembly.

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

ILLUSTRATED PARTS LIST:

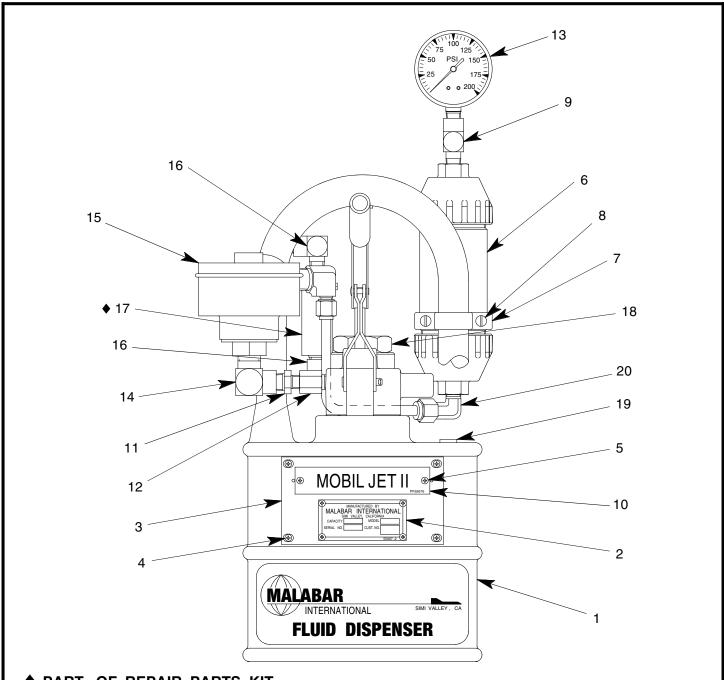
Refer to figure 1A & 1B for unit assembly (see sheets 3 & 4) or figure 2 for pump assembly (see sheet 5) or figure 3 for filter assembly (see sheet 6).

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.
- 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 17 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 PF2-95PK) 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.

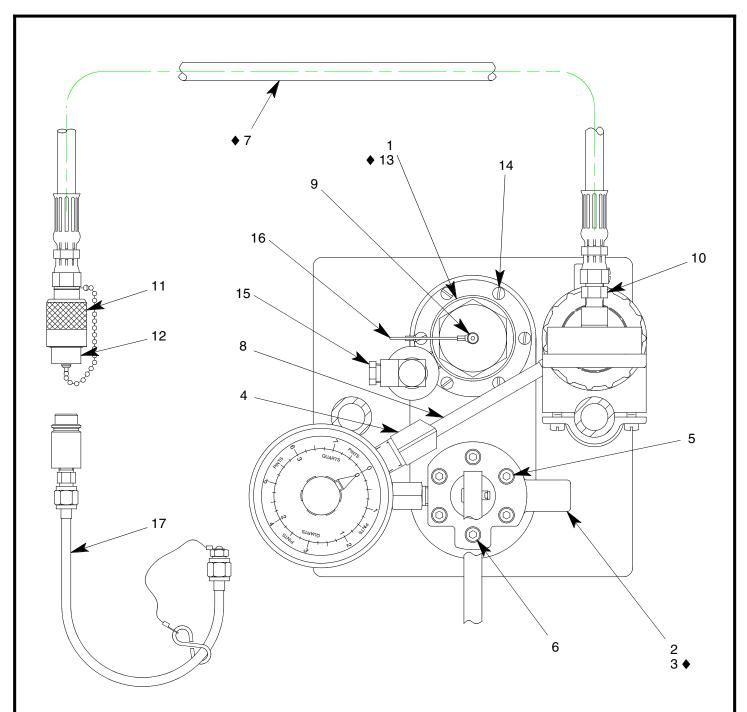


♦ PART OF REPAIR PARTS KIT

FIGURE 1A

PF55966-24PWS UNIT ASSEMBLY

							-
NO.	QTY	PART NO.	PART NAME	NO.	QTY	PART NO.	PART NAME
1	1	PF55838-5	FLUID TANK	11	1	711-018	NIPPLE, 3/8 NPT x 1/4 NPT
2	1	55997-2	NAMEPLATE	12	1	714-017	BUSHING, 1/4 NPT
3	1	PF55859	PLACARD PLATE	13	1	482-050	GAUGE, 0-200 PSIG
4	4	344-011	FHCS, 6-32 x 7/16 LG	14	1	712-032	ELBOW, 1/2 NPT x 3/8 NPT
5	6	397-010	SELF TAPPING SCREW, 6-32	15	1	486-024	FLUID METER
6	1	PF55873	FILTER ASSEMBLY	16	2	712-008	ELBOW, STREET, 1/4 NPT
7	1	PF55871-1	YOKE CLAMP	17	1	483-013	DESICCANT DRYER
8	3	342-010	SCREW, FIL HD, 1/4-20 x 1" LG	18	1	PF56073	FILL CAP
9	1	713-048	TEE, RUN, 1/4 NPT	19	1	717-007	PLUG, 3/8 NPT
10	1	PF55676	PLACARD	20	1	722-014	ELBOW, 3/8 TUBE x 1/4 NPT

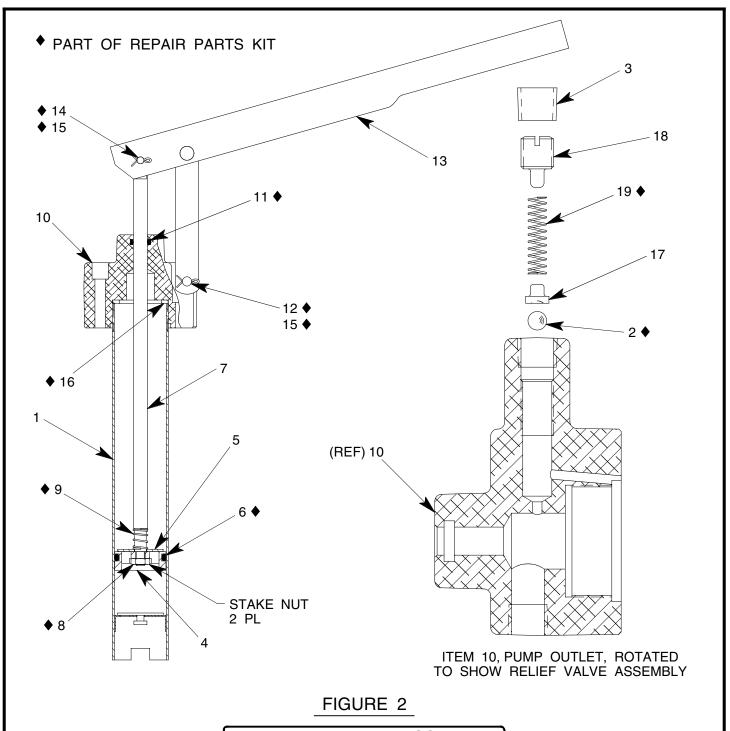


♦ PART OF REPAIR PARTS KIT

FIGURE 1B

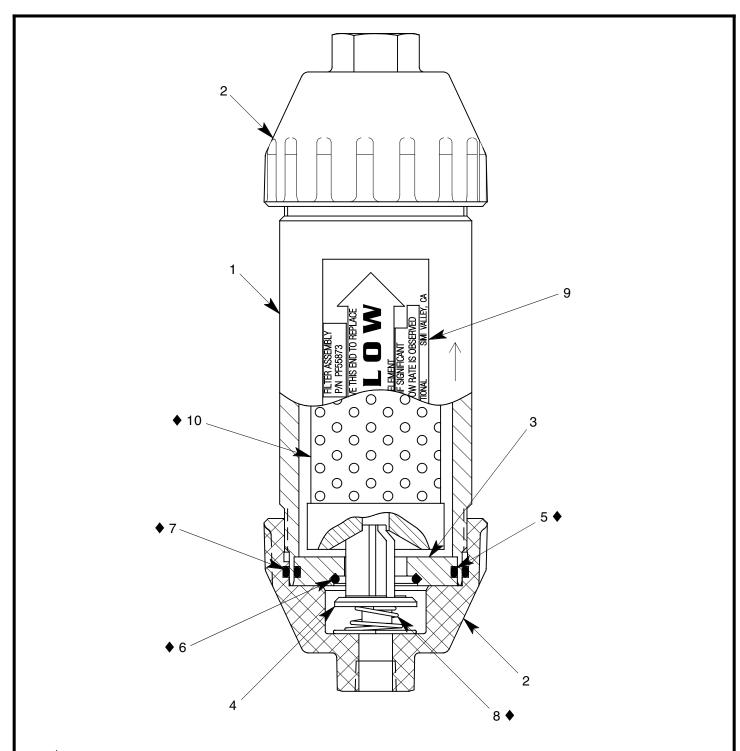
PF55966-24PWS UNIT ASSEMBLY

NO.	QTY	PART NO.	PART NAME	NO.	QTY	PART NO.	PART NAME
1	1	PF56136	RISER	10	1	721-004	CONN, 3/8 37° x 1/4 NPT
2	1	PF55845-1	PUMP ASSEMBLY	11	1	736-013	COUPLING
3	1	PF55672	GASKET	12	1	PF55987	DUST PLUG & CHAIN
4	1	722-015	ELBOW, 3/8 TUBE x 1/2 NPT	13	1	483-016	GASKET, FLANGE
5	5	323-038	SHCS, 1/4-28 x 1 3/4 LG	14	6	341-009	RHCS, 10-32 x 1/2 LG
6	1	323-063	SHCS, 1/4-28 x 1" LG	15	1	483-005	BREATHER, 1/4 MPT
7	1	PF55456-17	HOSE ASSEMBLY	16	1	370-049	LANYARD, 6" LG
8	AR	732-010	TUBING, 3/8 OD x .065 WALL	17	1	PF55759	GRAVITY FILL ADAPTER
9	1	330-016	SHSS, 3/16 DIA x 1/4 LG, 8-32				



PF55845-1 PUMP ASSEMBLY

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

PF2-95PK REPAIR PARTS KIT QTY PART NO. PART NAME PF55456-17 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 373-006 1 COTTER PIN, 1/16 x 1/2 LG 2 372-011 FLAT HEAD PIN, 3/16 DIA x 17/32 LG 1 AN393-17 1 PF54063 GASKET 1 495-038 **SPRING** 1 412-004 STEEL BALL, 1/4 DIA 55925-120 1 **O-RING** 1 55925-135 **O-RING** 2 O-RING 55925-140 1 **SPRING** 495-039 481-068 FILTER ELEMENT 1 352-011 HEX JAM NUT, 1/4-28 1 PF55672 **GASKET** 483-013 DESICCANT DRYER 1 1 483-016 GASKET, FLANGE REPAIR PARTS KIT LIST PF2-95PKDOC