Date: August 21, 2013

MALABAR



INTERNATIONAL

AIRCRAFT MAINTENANCE & SUPPORT EQUIPMENT

OWNER'S MANUAL FOR MALABAR MODEL

PF54124-32P

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 PF54124-32P 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-5606	
Reservoir capacity	2 U.S. gal	7.6 liters
Pump outlet pressure	100 psig	689 kPa
Volume per stroke		41 cc
Hose length	84 in	2134 mm
Net weight (empty)	12 lbs	5.4 kg
Filter rating	3 micron absolute	J
Fluid tank color		

GENERAL DESCRIPTION:

The Malabar Model PF54124-32P is a 2 gallon fluid dispenser used to service various commercial aircraft. The hand pump dispenser consists of a reservoir, pump assembly, filter assembly, lockable fillport assembly, fluid meter, pressure gauge 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 desired end fitting and connect the end fitting to the aircraft service point.
- 2. Use full steady pumping strokes when operating pump assembly during replenishing.
- 3. Disconnect the end fitting from the aircraft service point, replace 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).

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 6 in figure 1A (see sheet 3) to change element.

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 4) and rod seal (item 14) 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 4), rod seal (item 14) and gasket (item 13) immediately if leakage is discovered. A repair parts kit (P/N PF2-91PK) is available and recommended to keep on hand at your facility. Refer to sheet 6 for the complete list of parts contained in the repair parts kit.

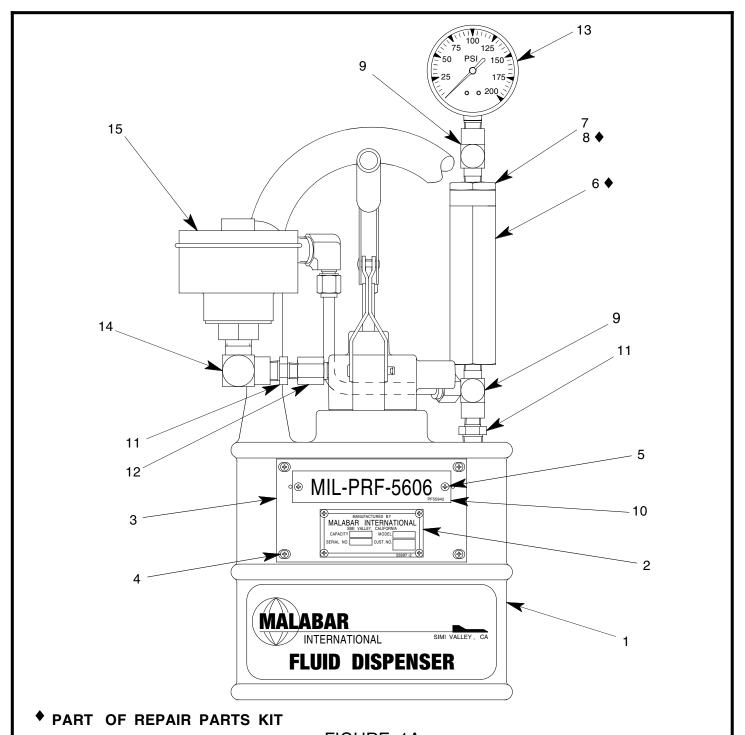
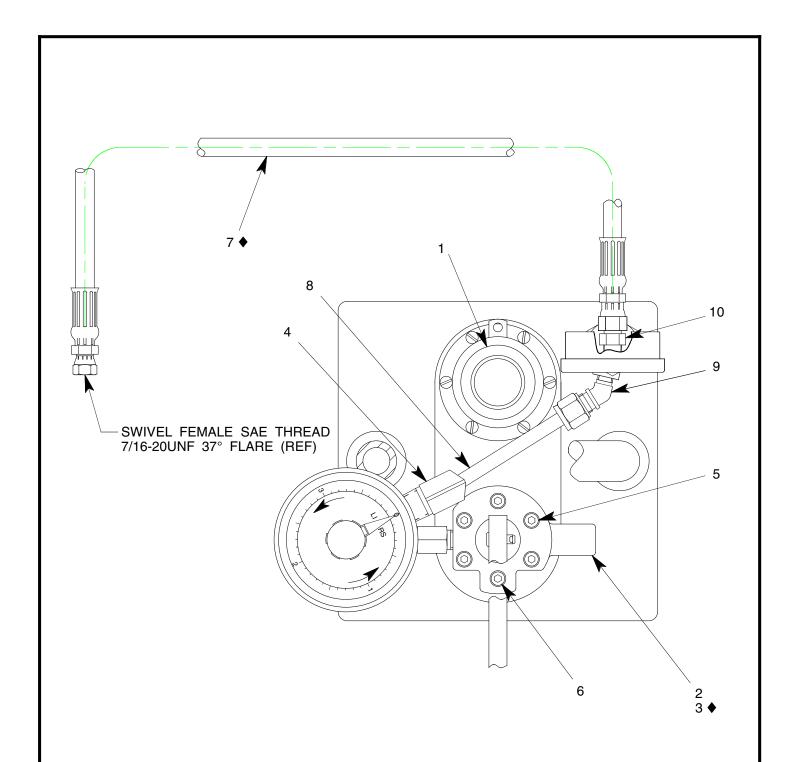


FIGURE 1A

PF54124-32P UNIT ASSEMBLY

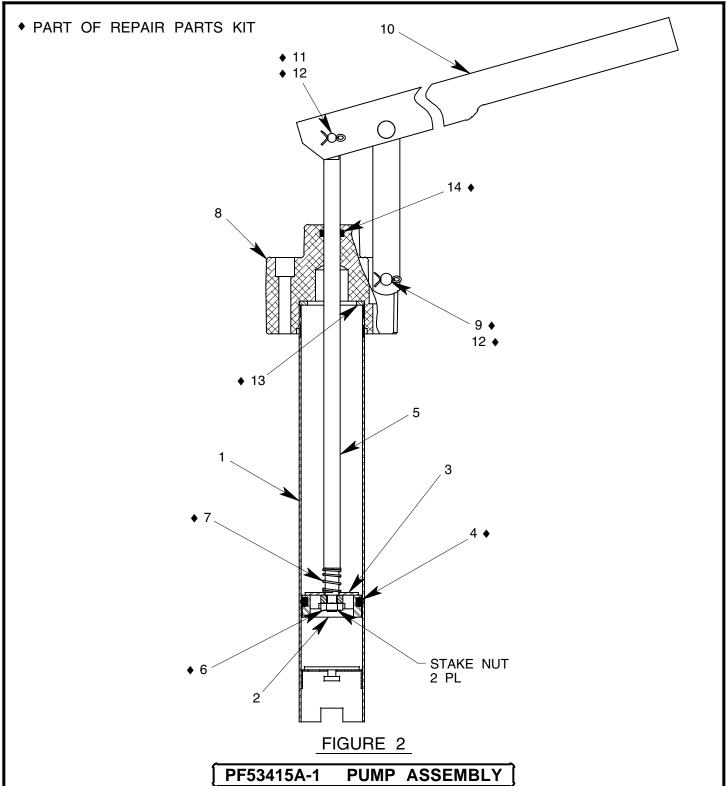
NO.	QTY	PART NO.	PART NAME	NO.	QTY	PART NO.	PART NAME
1	1	PF55838-1	FLUID TANK	9	2	713-048	TEE, RUN, 1/4 NPT
2	1	55997-2	NAMEPLATE	10	1	PF53931	PLACARD
3	1	PF55859	PLACARD PLATE	11	2	711-018	NIPPLE, 3/8 NPT x 1/4 NPT
4	4	344-011	FHCS, 6-32 x 7/16 LG	12	1	714-017	BUSHING, 1/4 NPT
5	6	397-010	SELF TAPPING SCREW, 6-32	13	1	482-050	GAUGE, 0-200 PSIG
6	1	481-038	FILTER ELEMENT	14	1	712-032	ELBOW, 1/2 NPT x 3/8 NPT
7	1	PF101160	FILTER ASSEMBLY	15	1	486-020	FLUID METER
8	1	55925-025	O-RING				



◆ PART OF REPAIR PARTS KIT FIGURE 1B

PF54124-32P UNIT ASSEMBLY

NO.	QTY	PART NO.	PART NAME	NO.	QTY	PART NO.	PART NAME
1	1	PF55948	LOCKING FILLPORT ASSY	6	1	323-063	SHCS, 1/4-28 x 1" LG
2	1	PF53415A-1	PUMP ASSEMBLY	7	1	PF55470-6	HOSE ASSEMBLY
3	1	PF55672	GASKET	8	1	732-010	TUBING, 3/8 OD x .065 WALL
4	1	722-015	ELBOW, 3/8 TUBE x 1/2 NPT	9	1	722-022	ELBOW, 45°, 3/8 T x 1/4 NPT
5	5	323-038	SHCS, 1/4-28 x 1 3/4 LG	10	1	721-004	CONN, 3/8 37° x 1/4 NPT



NO.	QTY	PART NO.	PART NAME	NO.	QTY	PART NO.	PART NAME
1	1	PF53376	TUBE ASSEMBLY	8	1	PF55685	PUMP OUTLET
2	1	PF53379	PISTON	9	1	373-006	FH PIN, 1/4 DIA x 1 9/32 LG
3	1	PF53380	PISTON CHECK DISC	10	1	494-017	HANDLE ASSEMBLY
4	1	55925-216	O-RING	11	1	AN393-17	FH PIN, 3/16 DIA x 17/32 LG
5	1	PF53378	PUMP PISTON ROD	12	2	372-011	COTTER PIN, 1/16 x 1/2 LG
6	1	352-011	HEX JAM NUT, 1/4-28	13	1	PF54063	GASKET
7	1	PF53406	SPRING	14	1	55925-110	O-RING

PF2-91PK REPAIR PARTS KIT QTY PART NO. PART NAME HOSE ASSEMBLY PF55470-6 FILTER ELEMENT 481-038 1 55925-025 O-RING PF55672 **GASKET** 1 PF53406 **SPRING** 1 AN393-17 FLAT HEAD PIN, 3/16 DIA x 17/32 LG 1 HEX JAM NUT, 1/4-28 COTTER PIN, 1/16 DIA x 1/2 LG 352-011 1 2 372-011 FLAT HEAD PIN, 1/4 DIA x 1 9/32 LG 1 373-006 1 55925-216 O-RING 55925-110 **O-RING** 1 PF54063 **GASKET** 1 PF2-91PKDOC REPAIR PARTS KIT LIST