Date: December 23, 2015

MALABAR



INTERNATIONAL

AIRCRAFT MAINTENANCE & SUPPORT EQUIPMENT

OWNER'S MANUAL FOR MALABAR MODEL

PF53481-118PWS

5 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 PF53481-118PWS 5 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	TURBO OIL 2197	
Reservoir capacity	5 U.S. gal	18.9 liters
Pump outlet pressure	100 psig	689 kPa
Volume per stroke	3.0 cubic in	49 cc
Relief valve setting		$862 \pm 69 \text{ kPa}$
Hose length	288 in	7315 mm
Net weight (empty)	35 lbs	15.9 kg
Filter rating	1 micron nominal	J
Fluid tank color	yellow	

GENERAL DESCRIPTION:

The Malabar Model PF53481-118PWS is a 5 gallon fluid dispenser used to service various commercial aircraft. The hand pump dispenser consists of a reservoir, pump assembly, water stop filter assembly, 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. 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:

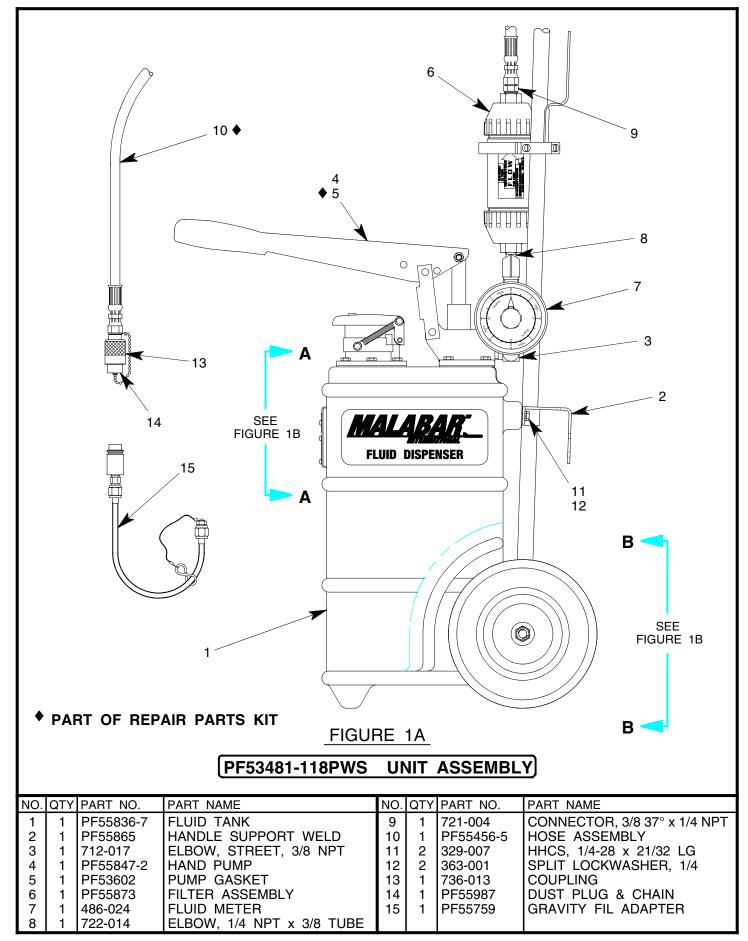
Refer to figure 1A, 1B & 1C for unit assembly (see sheets 3, 4 & 5) or figure 2 for pump assembly (see sheet 6).

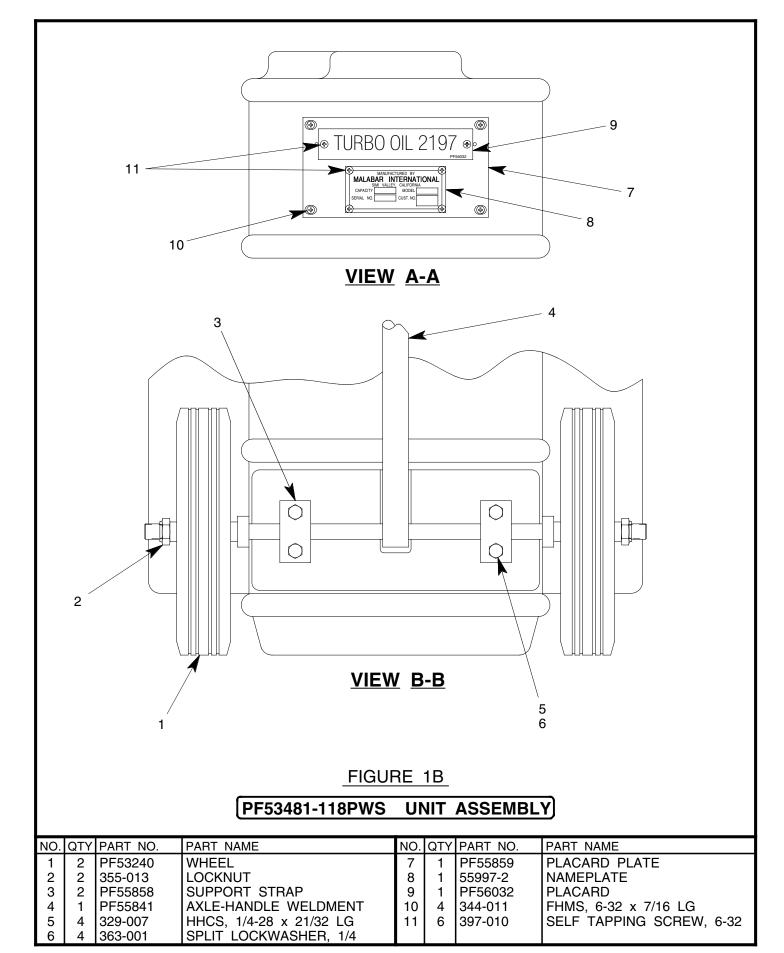
SERVICING:

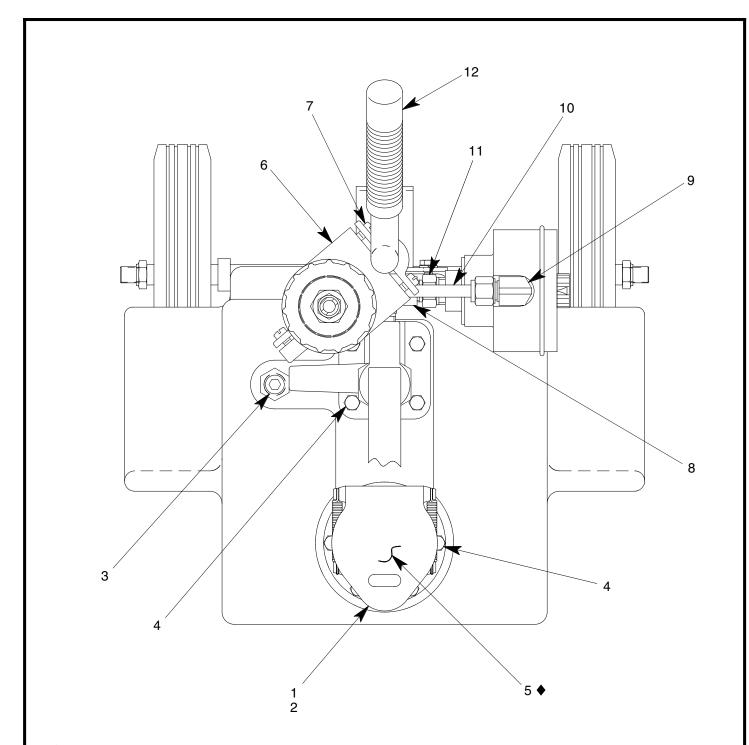
- 1. The frequency of filter change depends on operating conditions. Generally, changes should be made every 3-4 months or sooner if more than normal resistance is felt on the pumping stroke at low pressure. Refer to item 10 in figure 3 (see sheet 7) to change element. Proper element must be installed, 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 14) and rod seal (item 15) are normally the first to wear (see sheet 6). This is usually indicated by leakage of fluid past the piston or rod. It is advisable to change piston seal (item 14) and rod seal (item 15) immediately if leakage is discovered. A repair parts kit (P/N PF5-28PK) is available and recommended to keep on hand at your facility. Refer to sheet 8 for the complete list of parts contained in the repair parts kit.





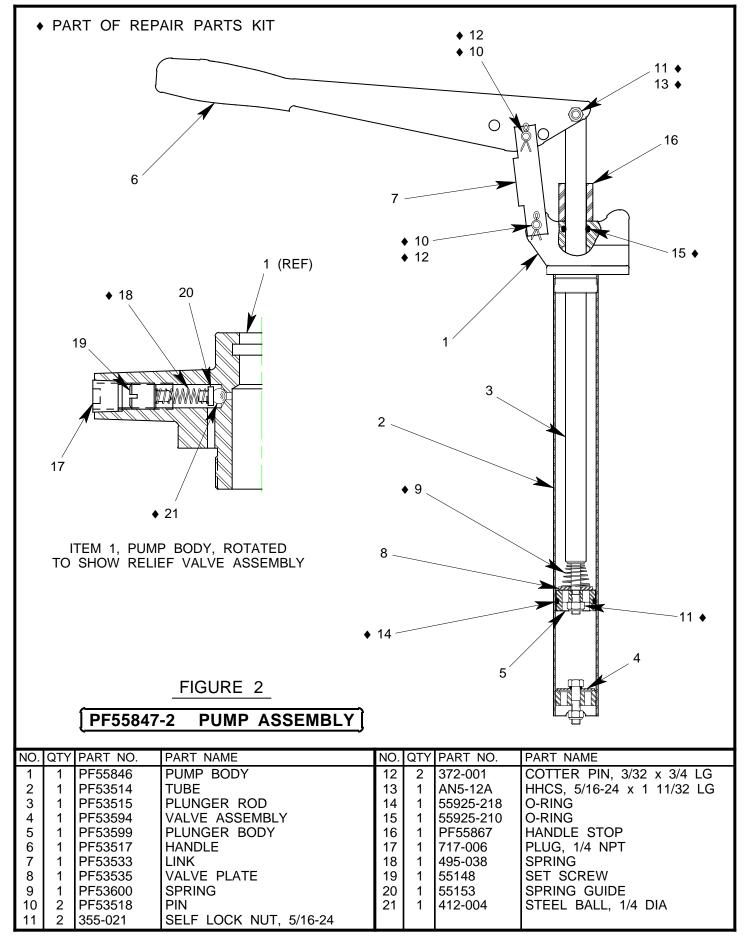


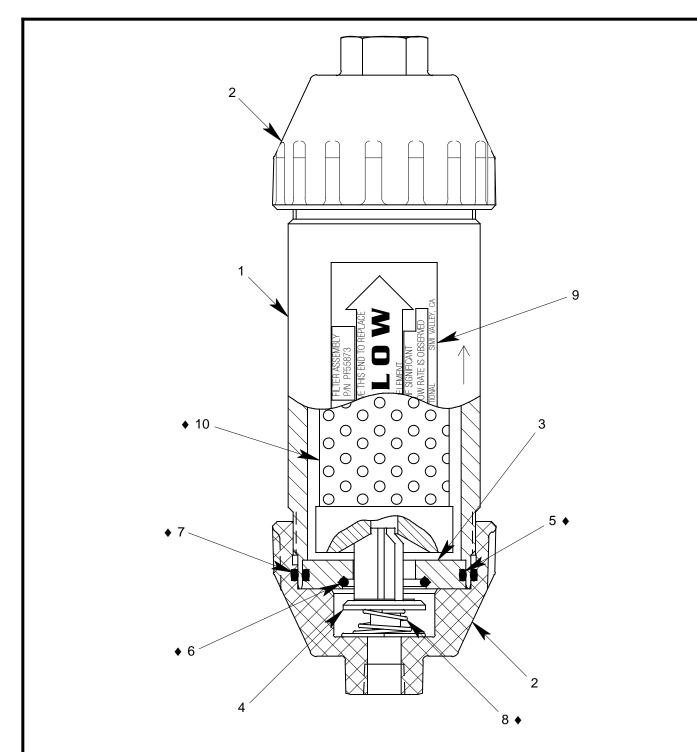
♦ PART OF REPAIR PARTS KIT

FIGURE 1C

PF53481-118PWS UNIT ASSEMBLY

NO.	QTY	PART NO.	PART NAME	NO.	QTY	PART NO.	PART NAME
1	1	PF53549	FILLPORT ASSEMBLY	7	3	342-010	SCREW, FL HD, 1/4-20 x 1" LG
2	1	PF53628	FILLPORT GASKET	8	1	712-017	ELBOW, STREET, 3/8 NPT
3	1	717-007	PLUG, 3/8 NPT	9	1	722-015	ELBOW, 1/2 NPT x 3/8 TUBE
4	10	329-007	HHCS, 1/4-28 x 21/32 LG	10	A/R	732-010	TUBING, 3/8 OD x .065 WALL
5	1	55925-329	O-RING	11	1	711-022	NIPPLE, 1/2 NPT x 3/8 NPT
6	1	PF55871-2	YOKE CLAMP	12	1	494-006	HANDLE GRIP





◆ 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

PF5-28PK REPAIR PARTS KIT QTY PART NO. PART NAME PF55456-5 HOSE ASSEMBLY O-RING 55925-329 1 PF53602 PUMP GASKET PF53600 1 **SPRING** 2 PF53518 PIN 2 SELF LOCK NUT, 5/16-24 355-021 2 COTTER PIN, 3/32 DIA x 3/4 LG 372-001 HHCS, 5/16-24 x 1 11/32 LG AN5-12A 55925-218 **O-RING** 1 55925-210 O-RING 495-038 **SPRING** 1 412-004 STEEL BALL, 1/4 DIA 55925-135 **O-RING** 55925-120 **O-RING** 2 55925-140 **O-RING** 1 495-039 **SPRING** 1 481-068 FILTER ELEMENT PF5-28PKDOC REPAIR PARTS KIT LIST