Date: December 21, 2006

# **MALABAR**



#### INTERNATIONAL

## AIRCRAFT MAINTENANCE & SUPPORT EQUIPMENT

## OWNER'S MANUAL FOR MALABAR MODEL

## PF55481-1P

## 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 PF55481-1P 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	PGW	
Reservoir capacity	2 U.S. gal	7.6 liters
Pump outlet pressure		1034 kPa
Volume per stroke		16.4 cc
Hose length		2134 mm
Net weight (empty)		6.8 kg
Filter rating		J
Fluid tank color		

#### **GENERAL DESCRIPTION:**

The Malabar Model PF55481-1P is a 2 gallon fluid dispenser used to service various commercial aircraft. The hand pump dispenser consists of a reservoir, pump assembly, relief valve, filter assembly, check valve, by-pass valve, 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. 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 & 1C for unit assembly (see sheets 3, 4 & 5) or figure 2 for pump assembly (see sheet 6).

#### **HYDRAULIC DIAGRAM:**

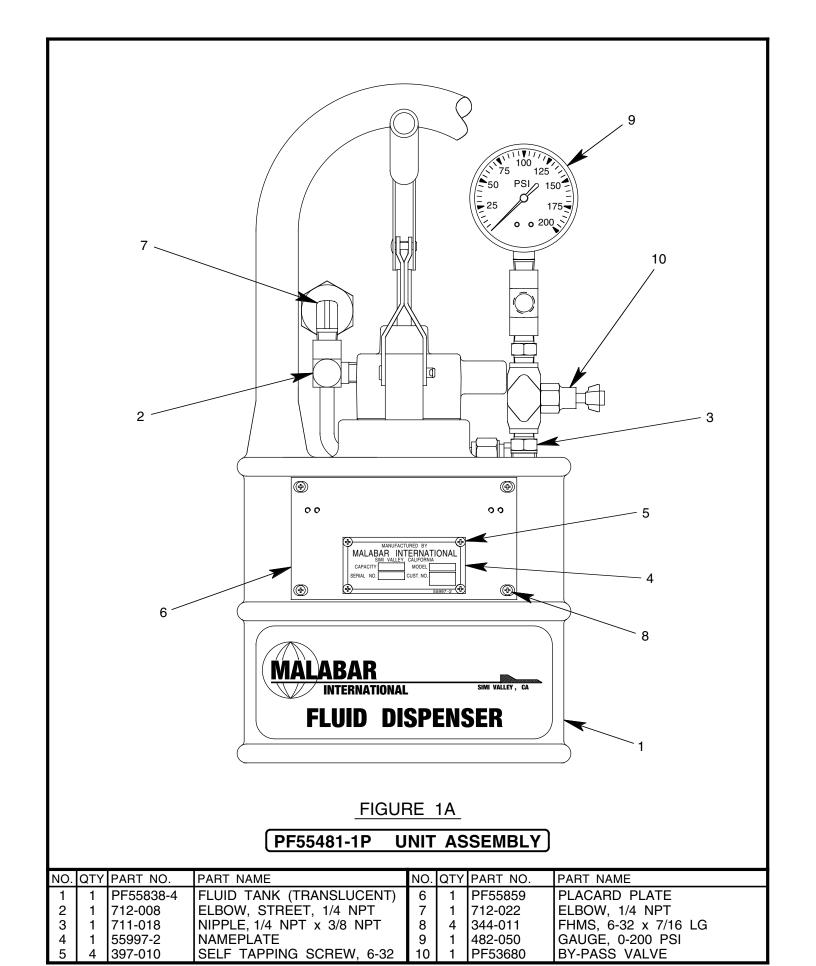
Refer to figure 3 for hydraulic diagram (see sheet 7).

#### **SERVICING:**

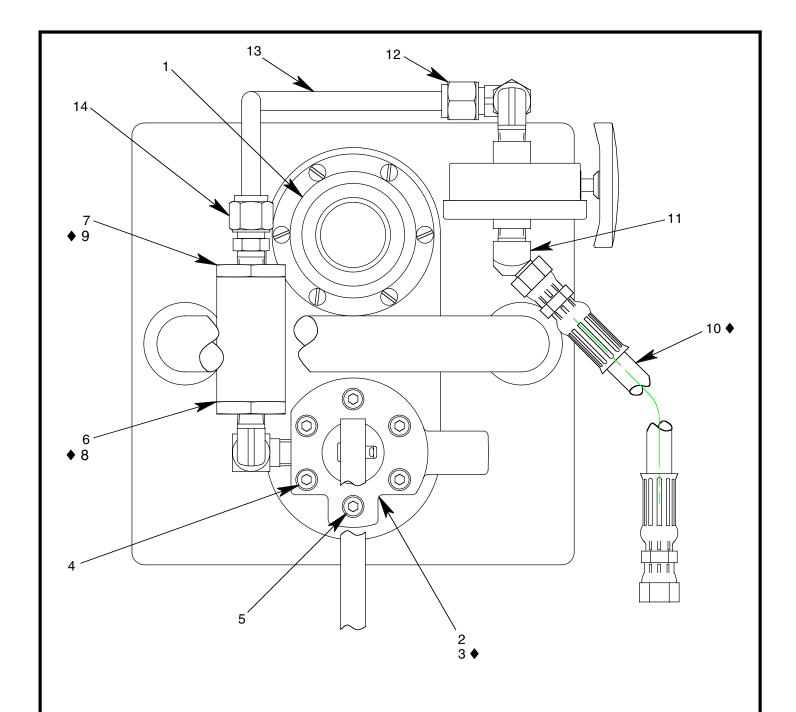
1. The frequency of filter change depends on operating conditions. Generally, changes should be made every 3-4 months or sooner if more than normal resistance is felt on the pumping stroke at low pressure. Refer to item 8 in figure 1B (see sheet 4) to change element.

#### 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 6). 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 static seal (item 13) immediately if leakage is discovered. A repair parts kit (P/N PF2-78PK) 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.



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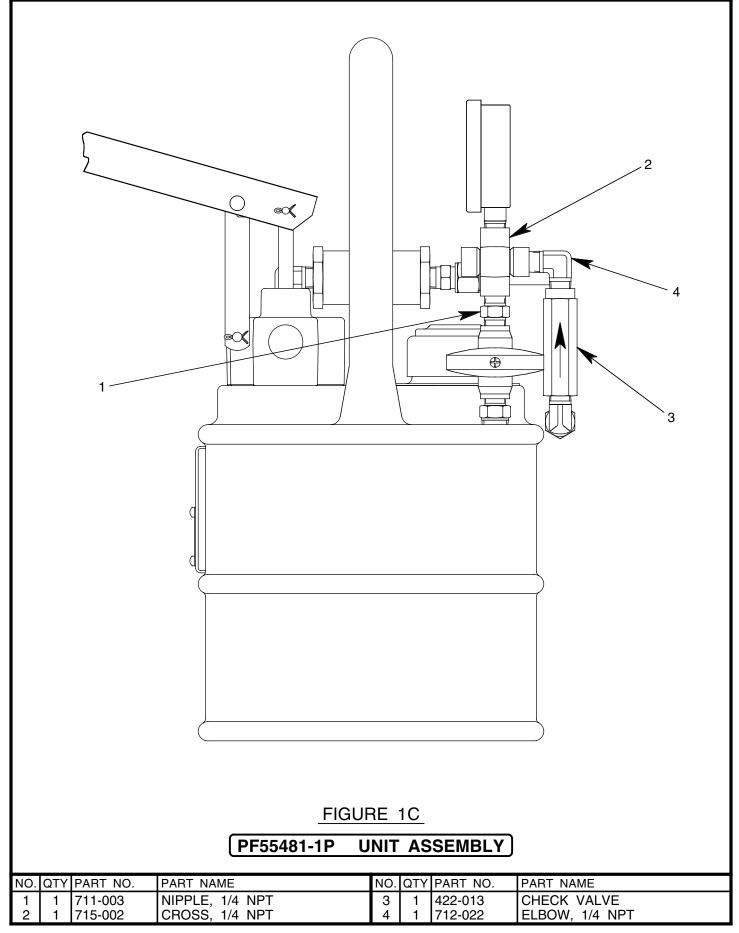


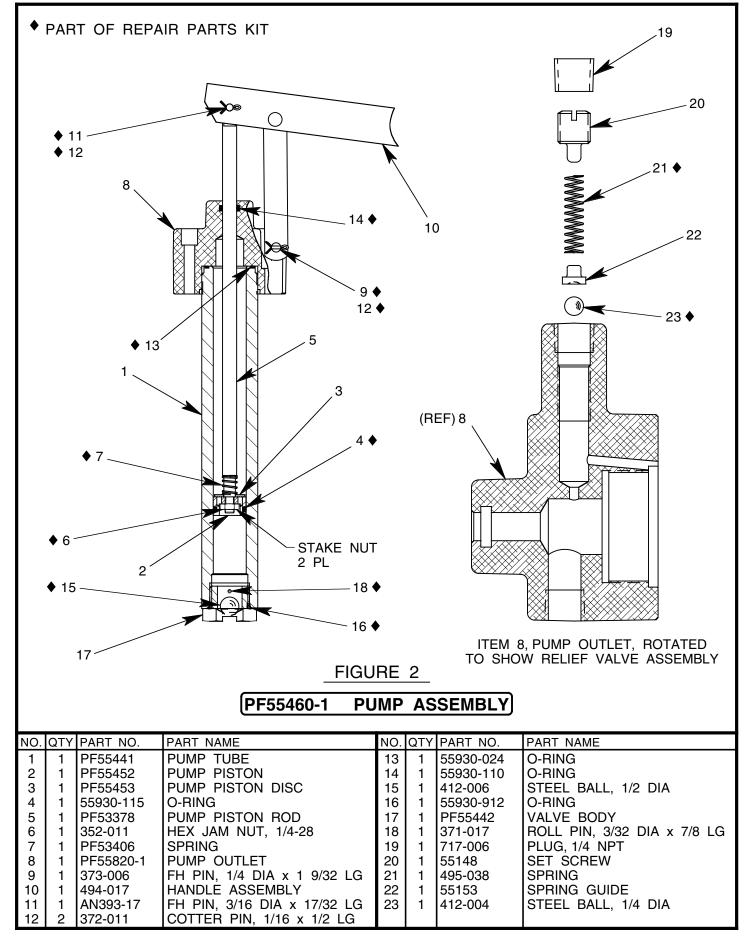
### **♦ PART OF REPAIR PARTS KIT**

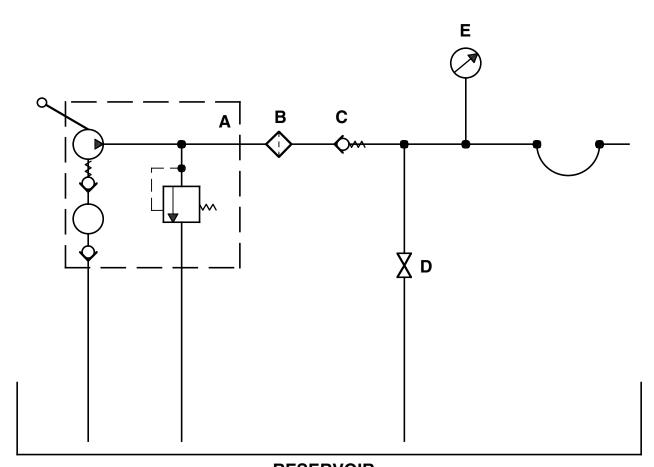
## FIGURE 1B

## PF55481-1P UNIT ASSEMBLY

NO.	QTY	PART NO.	PART NAME	NO.	QTY	PART NO.	PART NAME
1	1	PF55447	FILLPORT ASSEMBLY	10	1	PF55470-1	HOSE ASSEMBLY
2	1	PF55460-1	PUMP ASSEMBLY	11	1	722-009	ELBOW, 3/8 37° x 1/4 NPT
3	1	PF55672	GASKET	12	1	722-014	ELBOW, 3/8 TUBE x 1/4 NPT
4	5	323-038	SHCS, 1/4-28 x 1 3/4 LG	13	1	732-002	TUBING, 3/8 OD x .049 WALL
5	1	323-063	SHCS, 1/4-28 x 1" LG	14	1	721-009	CONNECTOR, 3/8 T x 1/4 NPT
6	1 1	PF712721	FILTER HOUSING				
7	1	PF712722	FILTER RETAINER				
8	1 1	481-007	FILTER ELEMENT				
9	1	55930-120	O-RING				







**RESERVOIR** 

- A HAND PUMP ASSEMBLY WITH INTEGRAL RELIEF VALVE
- B FILTER
- C CHECK VALVE
- D BY-PASS VALVE
- E GAUGE

FIGURE 3

HYDRAULIC DIAGRAM

#### PF2-78PK REPAIR PARTS KIT QTY PART NO. PART NAME PF55470-1 HOSE ASSEMBLY PF55672 **GASKET** 1 55930-120 **O-RING** 1 FILTER ELEMENT 481-007 1 373-006 FLAT HEAD PIN, 1/4 DIA x 1 9/32 LG 372-011 COTTER PIN, 1/16 DIA x 1/2 LG AN393-17 FLAT HEAD PIN, 3/16 DIA x 17/32 LG 55930-024 O-RING 1 PF53406 **SPRING** STEEL BALL, 1/2 DIA 412-006 1 55930-110 1 O-RING 55930-912 **O-RING O-RING** 1 55930-115 HEX JAM NUT, 1/4-28 1 352-011 371-017 ROLL PIN, 3/32 DIA x 7/8 LG 1 1 495-038 SPRING STEEL BALL, 1/4 DIA 1 412-004 REPAIR PARTS KIT LIST PF2-78PKDOC