Date: February 6, 2014

# **MALABAR**



### **INTERNATIONAL**

## AIRCRAFT MAINTENANCE & SUPPORT EQUIPMENT

## OWNER'S MANUAL FOR MALABAR MODEL

# PF53481-105P

## 5 GALLON FLUID DISPENSER

# READ AND SAVE

THIS
INSTRUCTION
MANUAL

- \* GENERAL DESCRIPTION
- \* OPERATION
- \* SERVICE
- \* PARTS BREAKDOWN

For Service & Spare

Parts. Please Contact: Malabar International

220 W. Los Angeles Avenue Simi Valley, California 93065 Phone: (805) 581-0116

Fax: (805) 584-1624

E-mail: sales@malabar.com Web site: http://www.malabar.com

## **OVER 65 YEARS OF SERVICE & EXPERIENCE**

© 2002 Malabar International. All rights reserved. Permission to reproduce all or part of this material must be obtained from Malabar International.

#### GENERAL DESCRIPTION, OPERATION, SERVICE AND PARTS BREAKDOWN

## MALABAR MODEL PF53481-105P 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	MIL-PRF-5606	
Reservoir capacity	5 U.S. gal	18.9 liters
Pump outlet pressure		689 kPa
Volume per stroke	3.0 cubic in	49 cc
Hose length	288 in	7315 mm
Net weight (empty)	35 lbs	15.9 kg
Filter rating		ū
Fluid tank color		

#### **GENERAL DESCRIPTION:**

The Malabar Model PF53481-105P is a 5 gallon fluid dispenser used to service various commercial aircraft. The hand pump dispenser consists of a reservoir, pump assembly, filter assembly, fluid meter and a fluid delivery hose with a high pressure valve.

#### 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 high pressure valve to the aircraft service point.
- 2. Use full steady pumping strokes when operating pump assembly during replenishing.
- 3. Disconnect the high pressure valve from the aircraft service point and store the unit in a dry, dust free location.

#### **ILLUSTRATED PARTS LIST:**

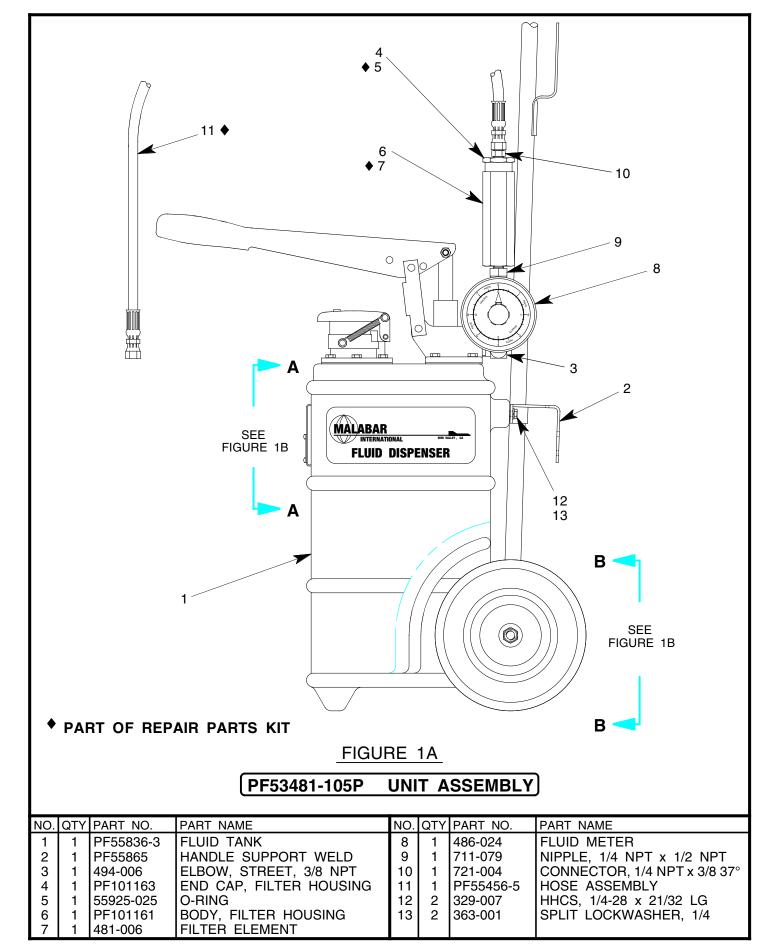
Refer to figure 1A, 1B & 1C for unit assembly (see sheets 3, 4 & 5) or figure 2 for pump assembly (see sheet 6).

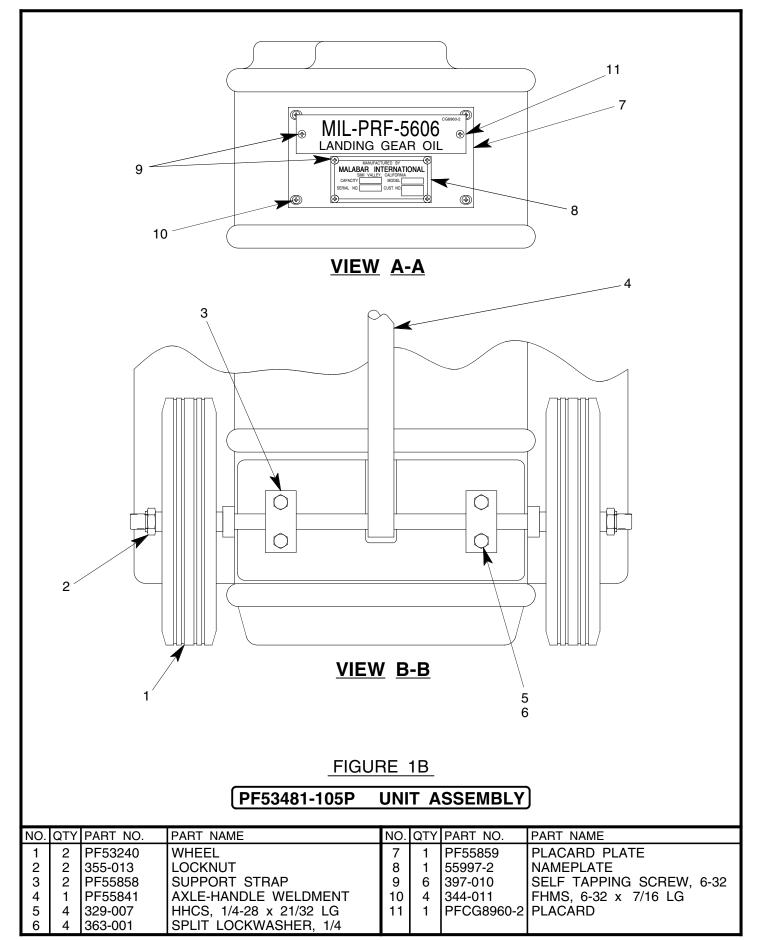
#### **SERVICING:**

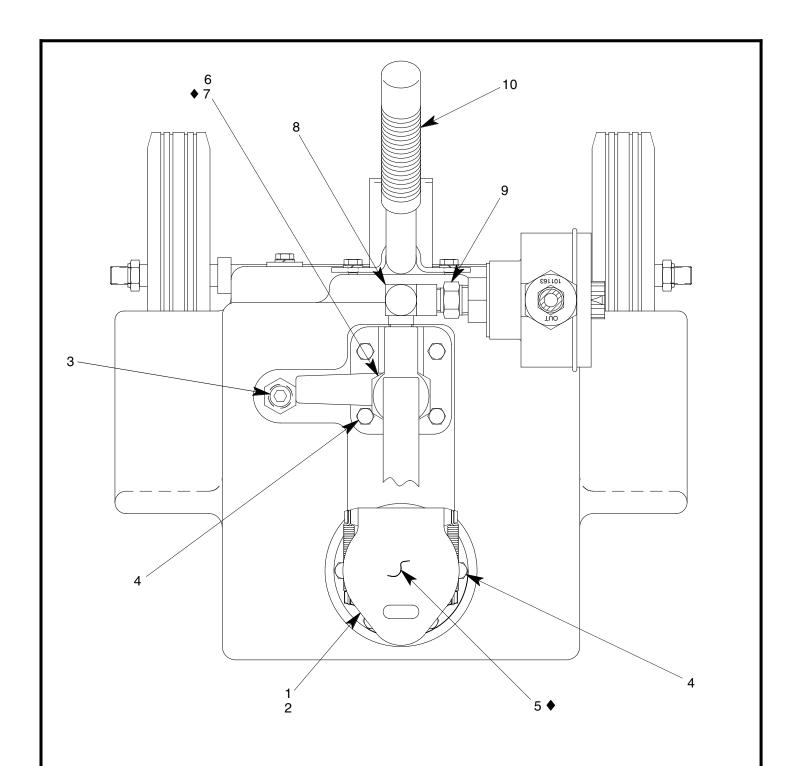
1. The frequency of filter change depends on operating conditions. Generally, changes should be made every 3-4 months or sooner if more than normal resistance is felt on the pumping stroke at low pressure. Refer to item 7 in figure 1A (see sheet 3) to change element.

#### 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 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 PF5-36PK) 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.





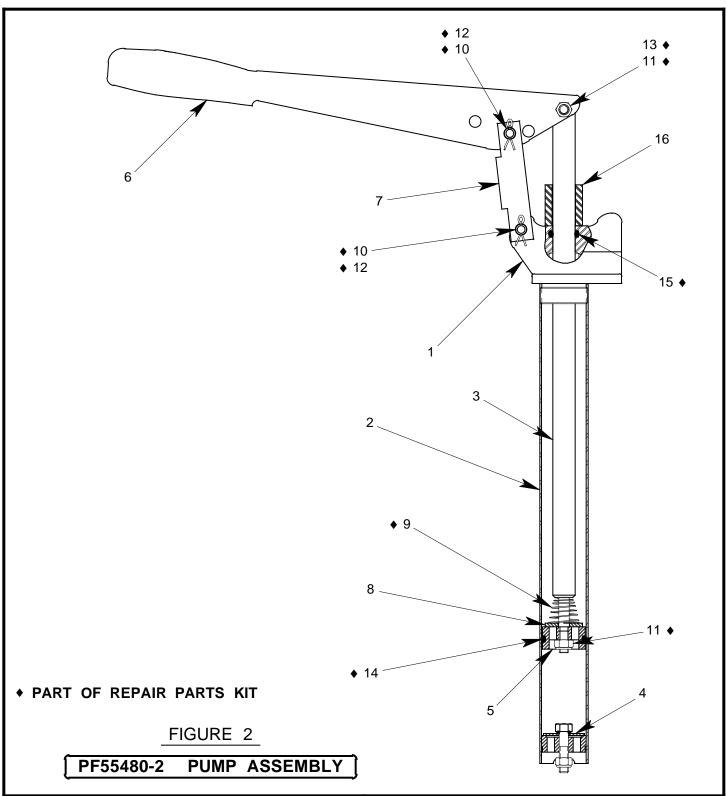


## **♦ PART OF REPAIR PARTS KIT**

FIGURE 1C

## PF53481-105P UNIT ASSEMBLY

NO.	QTY	PART NO.	PART NAME	NO.	QTY	PART NO.	PART NAME
1	1	PF53549	FILLPORT ASSEMBLY	6	1	PF55480-2	PUMP ASSEMBLY
2	1	PF53628	GASKET, FILLPORT	7	1	PF53602	GASKET
3	1	717-007	PLUG, 3/8 NPT	8	1	712-017	ELBOW, STREET, 3/8 NPT
4	10	329-007	HHCS, 1/4-28 x 21/32 LG	9	1	711-022	NIPPLE, 3/8 NPT x 1/2 NPT
5	1	55925-329	O-RING	10	1	494-006	HANDLE GRIP



NO.	QTY	PART NO.	PART NAME	NO.	QTY	PART NO.	PART NAME
1	1	PF55466	PUMP BODY	9	1	PF53600	SPRING
2	1	PF53514	TUBE	10	2	PF53518	PIN
3	1	PF53515	PLUNGER ROD	11	2	355-021	SELF LOCK NUT, 5/16-24
4	1	PF53594	VALVE ASSEMBLY	12	2	372-001	COTTER PIN, 3/32 x 3/4 LG
5	1	PF53599	PLUNGER BODY	13	1	AN5-12A	HHCS, 5/16-24 x 1 11/32
6	1	PF53517	HANDLE	14	1	55925-218	O-RING
7	1	PF53533	LINK	15	1	55925-210	O-RING
8	1	PF53535	VALVE PLATE	16	1	PF55867	HANDLE STOP

## PF5-36PK REPAIR PARTS KIT QTY PART NO. PART NAME PF55456-5 HOSE ASSEMBLY 481-006 FILTER ELEMENT 1 55925-025 **O-RING** O-RING 1 55925-329 PUMP GASKET PF53602 1 PF53600 **SPRING** PF53518 PIN SELF LOCK NUT, 5/16-24 355-021 2 COTTER PIN, 3/32 DIA x 3/4 LG 372-001 AN5-12A HHCS, 5/16-24 x 1 11/32 LG 55925-218 O-RING 55925-210 O-RING PF5-36PKDOC REPAIR PARTS KIT LIST