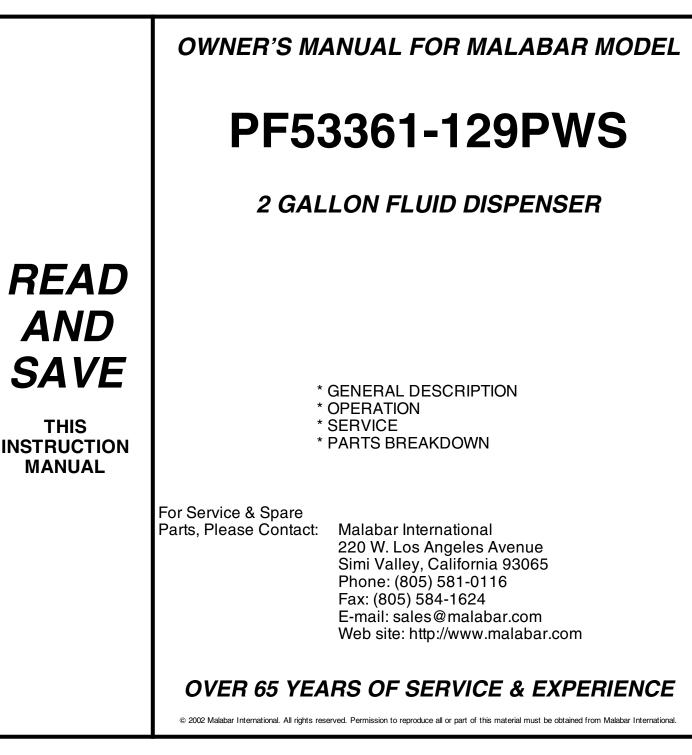
Date: October 25, 2018

# MALABAR

# INTERNATIONAL

AIRCRAFT MAINTENANCE & SUPPORT EQUIPMENT



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

# MALABAR MODEL PF53361-129PWS 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	EASTMAN TURBO OIL 2380	
Reservoir capacity	2 U.S. gal	7.6 liters
Pump outlet pressure	100 psig	689 kPa
Volume per stroke	2.5 cubic in	41 cc
Relief valve setting		862 ± 69 kPa
Hose length		2134 mm
Net weight (empty)		5.4 kg
Filter rating		-
Fluid tank color	green	

#### **GENERAL DESCRIPTION:**

The Malabar Model PF53361-129PWS 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, 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:**

 Remove dust plug from hose coupling and connect the hose coupling to the aircraft service point or connect coupling to gravity fill adapter assembly.
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), figure 2 for pump assembly (see sheet 5) or figure 3 for filter assembly (see sheet 6).

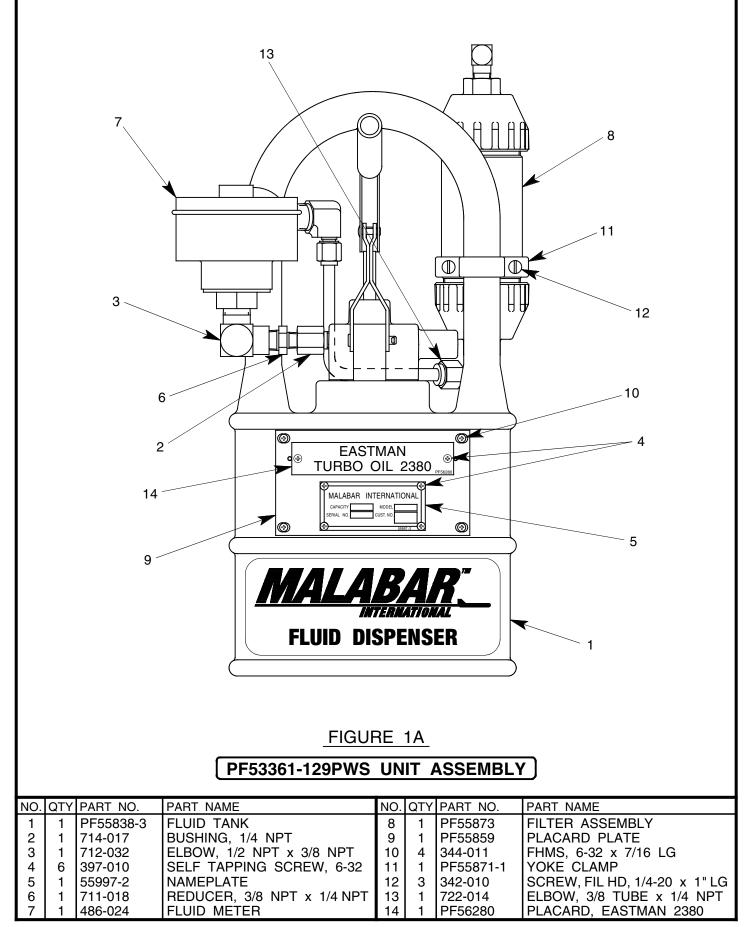
#### **SERVICING:**

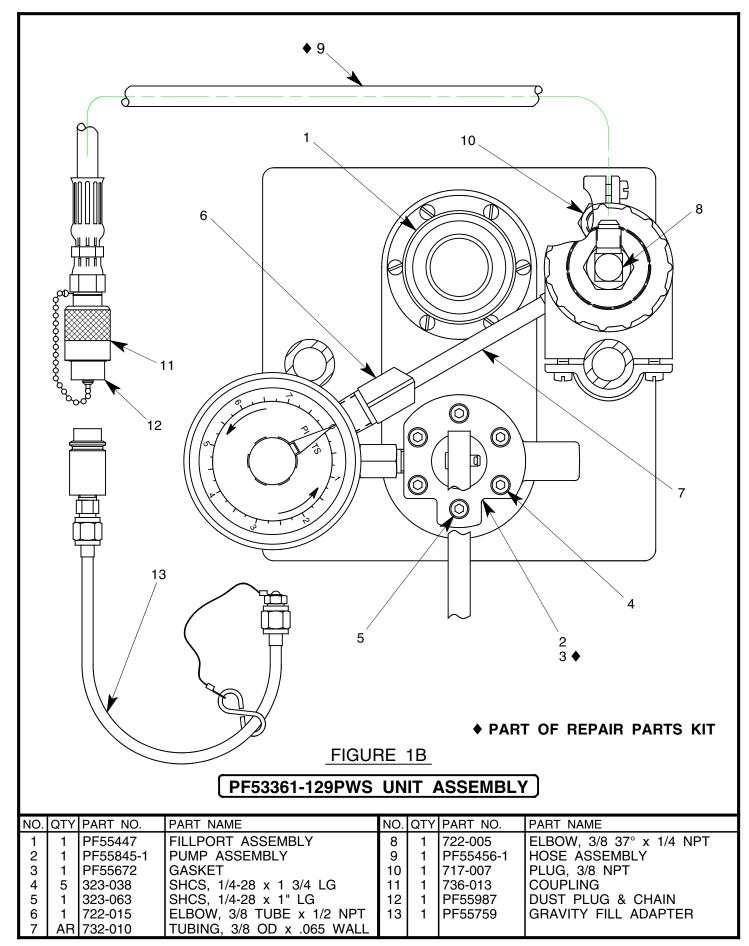
1. The frequency of filter change depends on operating conditions. Generally, changes should be made every 3-4 months or sooner if more than normal resistance is felt on the pumping stroke at low pressure. Refer to item 10 in figure 3 (see sheet 6) to change element. Proper element must be installed, otherwise unit will not pump fluid.

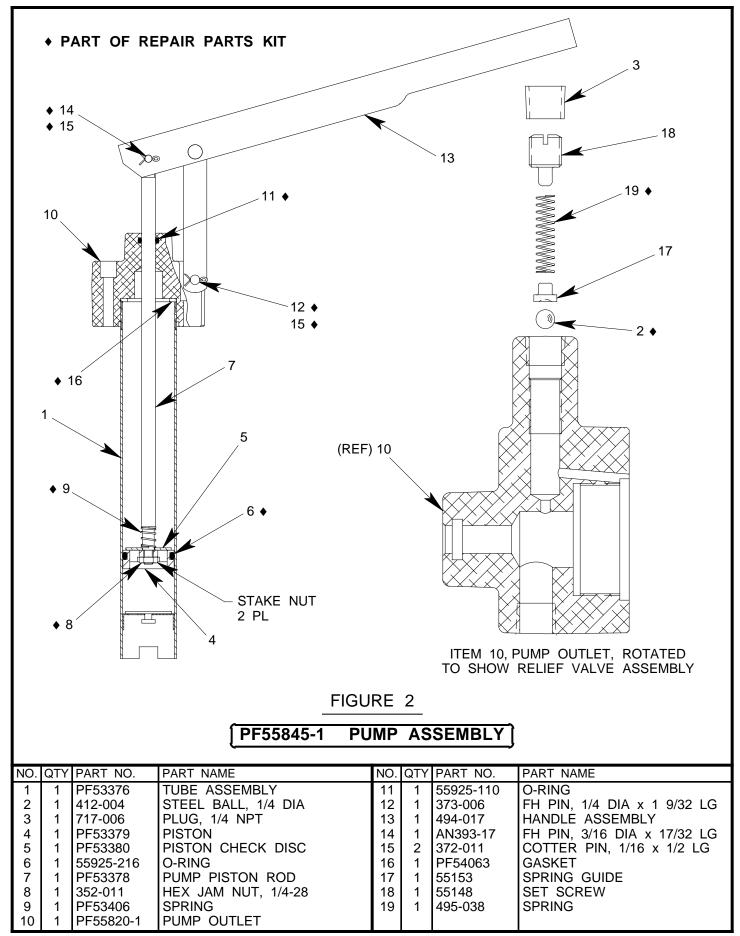
2. <u>NOTE</u>: The relief valve should not be removed. The relief valve is set to by-pass oil back to the reservoir at 125  $\pm$  10 PSIG.

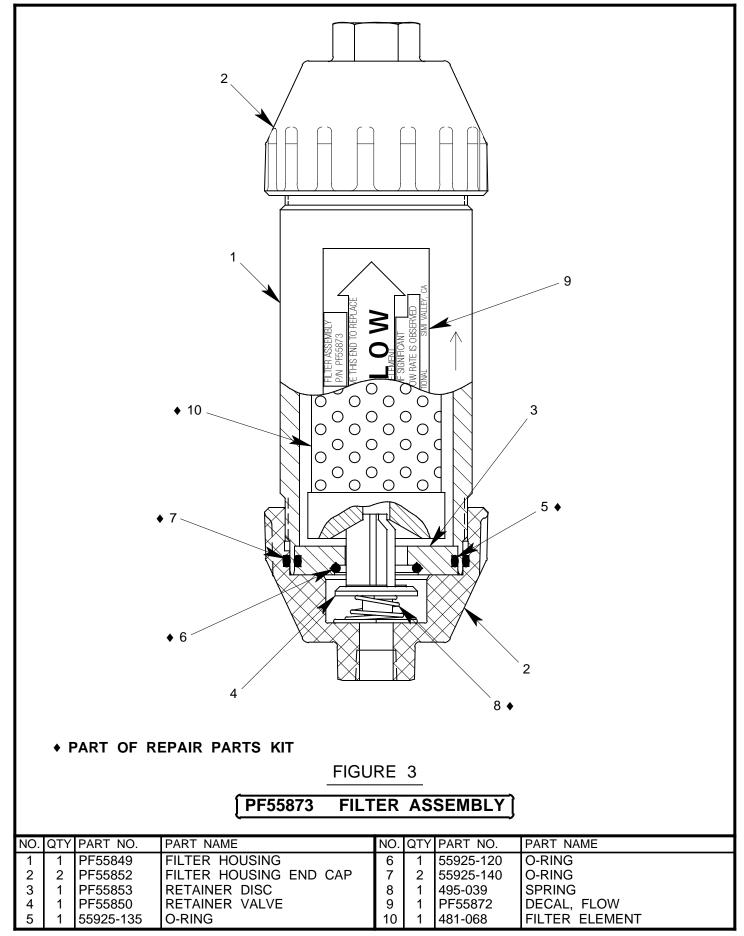
# **REPAIR AND REPLACEMENT:**

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 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 PF2-41PK) 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.









2TY PART NO. PART NAME 1 PF55456-1 HOSE ASSEMBLY 1 S5922-16 1 S5922-10 1 S72-006 FLAT HEAD PIN, 1/4 DIA x 1 9/32 LG 2 72-011 COTTER PIN, 1/16 x 1/2 LG 1 AN333-17 FLAT HEAD PIN, 3/16 DIA x 17/32 LG 1 AN333-17 FLAT HEAD PIN, 3/16 DIA x 17/32 LG 1 495-038 SPRING 1 495-038 SPRING 1 495-039 STEEL BALL, 1/4 DIA 1 55922-130 O-RING 2 55922-140 O-RING 2 55922-140 O-RING 1 491-068 FILTER ELEMENT 1 495-088 SPRING 1 491-086 FILTER ELEMENT 1 9F2-41PKDOC REPAIR PARTS KIT LIST 1 PF2-41PKDOC	PF2-41PK REPAIR PARTS KIT		
1   55925-216   O-RING     1   55925-110   O-RING     1   PF53406   SPRING     1   373-006   FLAT HEAD PIN, 1/4 DIA x 1 9/32 LG     2   372-011   COTTER PIN, 1/16 x 1/2 LG     1   AN393-17   FLAT HEAD PIN, 3/16 DIA x 17/32 LG     1   AN393-17   FLAT HEAD PIN, 3/16 DIA x 17/32 LG     1   PF54063   GASKET     1   495-038   SPRING     1   412-004   STEEL BALL, 1/4 DIA     1   55925-135   O-RING     1   55925-140   O-RING     2   55925-140   O-RING     1   495-039   SPRING     1   481-068   FILTER ELEMENT     1   352-011   HEX JAM NUT, 1/4-28     1   PF55672   GASKET			
	1   PF55456-1     1   55925-216     1   55925-110     1   PF53406     1   373-006     2   372-011     1   AN393-17     1   PF54063     1   495-038     1   412-004     1   55925-135     1   55925-140     1   495-039     1   481-068     1   352-011     1   PF55672	HOSE ASSEMBLY O-RING O-RING FLAT HEAD PIN, 1/4 DIA x 1 9/32 LG COTTER PIN, 1/16 x 1/2 LG FLAT HEAD PIN, 3/16 DIA x 17/32 LG GASKET SPRING STEEL BALL, 1/4 DIA O-RING O-RING O-RING FILTER ELEMENT HEX JAM NUT, 1/4-28 GASKET	