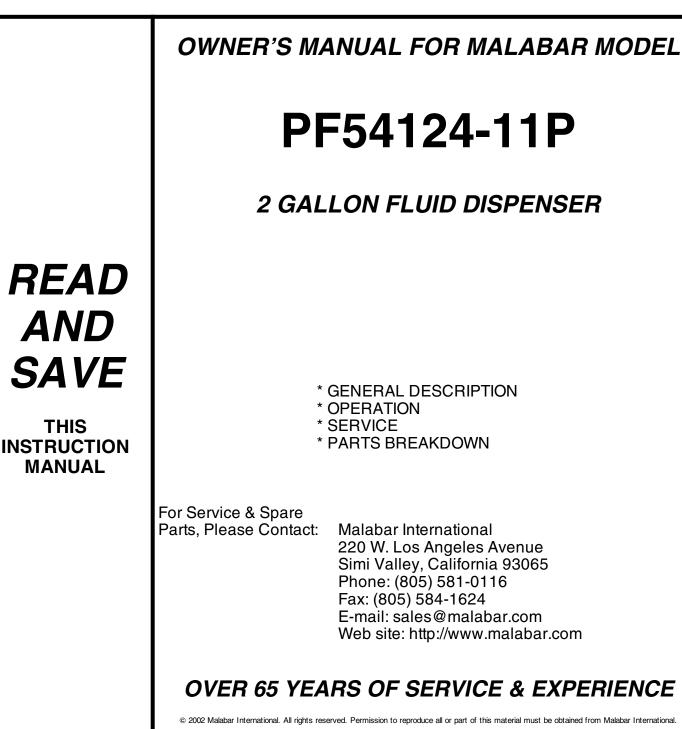
MALABAR

INTERNATIONAL

AIRCRAFT MAINTENANCE & SUPPORT EQUIPMENT



GENERAL DESCRIPTION, OPERATION, SERVICE AND PARTS BREAKDOWN

MALABAR MODEL PF54124-11P 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-83282	
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	50 ± 5 psig	345 ± 34 kPa
Hose length		2134 mm
Net weight (empty)		6.8 kg
Filter rating		
Fluid tank color	red	

GENERAL DESCRIPTION:

The Malabar Model PF54124-11P is a 2 gallon fluid dispenser used to service various commercial aircraft. The hand pump dispenser consists of a reservoir, pump assembly, 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. Close by-pass valve.

2. Connect the hose to the aircraft service point.

3. Use full steady pumping strokes when operating pump assembly.

4. Open by-pass valve to allow fluid to drain to reservoir.

5. 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).

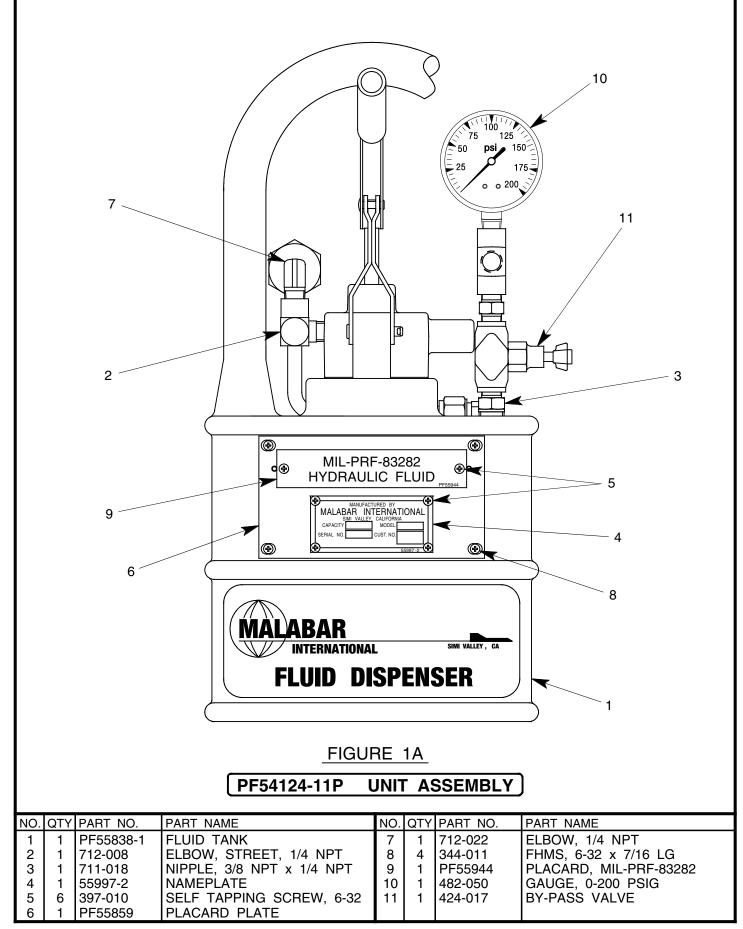
SERVICING:

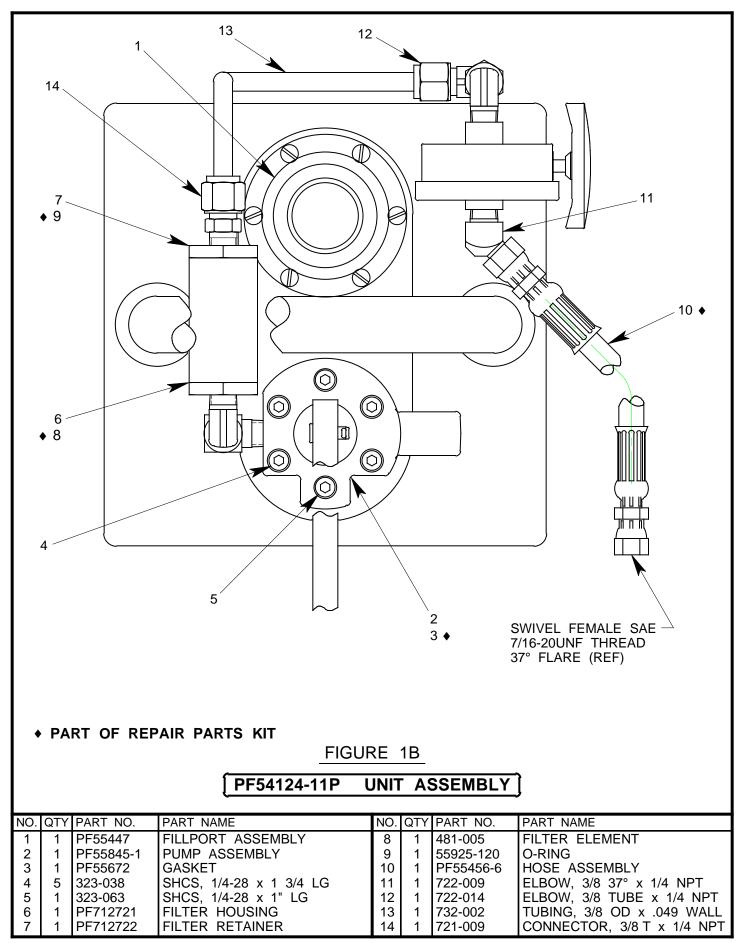
1. The frequency of filter change depends on operating conditions. Generally, changes should be made every 3-4 months or sooner if more than normal resistance is felt on the pumping stroke at low pressure. Refer to item 8 in figure 1B (see sheet 4) to change element.

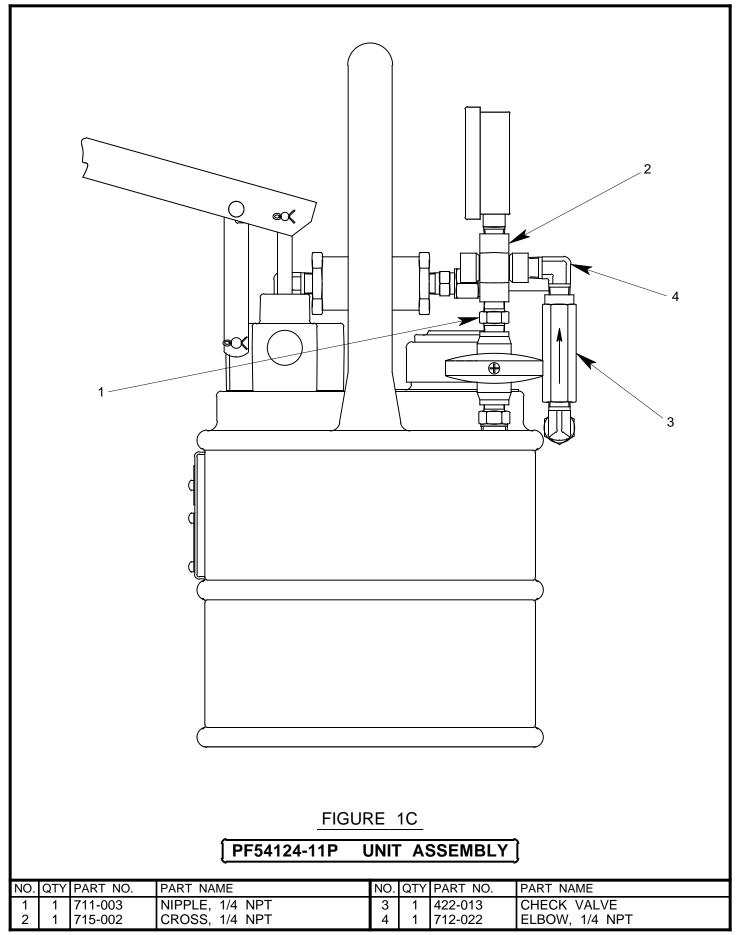
2. <u>NOTE:</u> The relief value should not be removed. The relief value is set to by-pass oil back to the reservoir at 50 ± 5 PSIG.

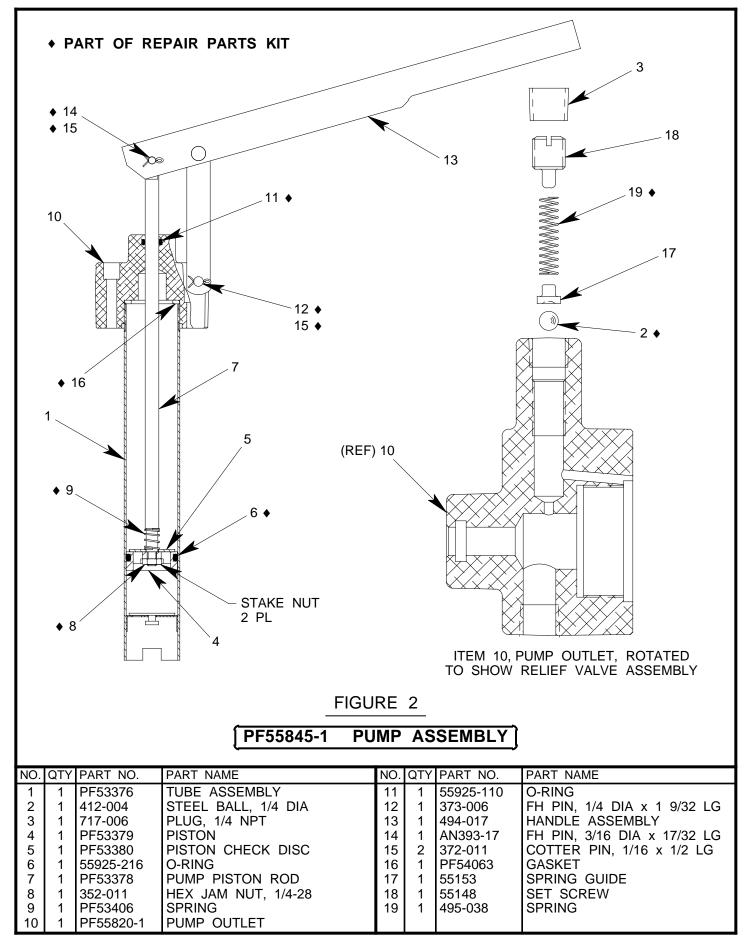
REPAIR AND REPLACEMENT:

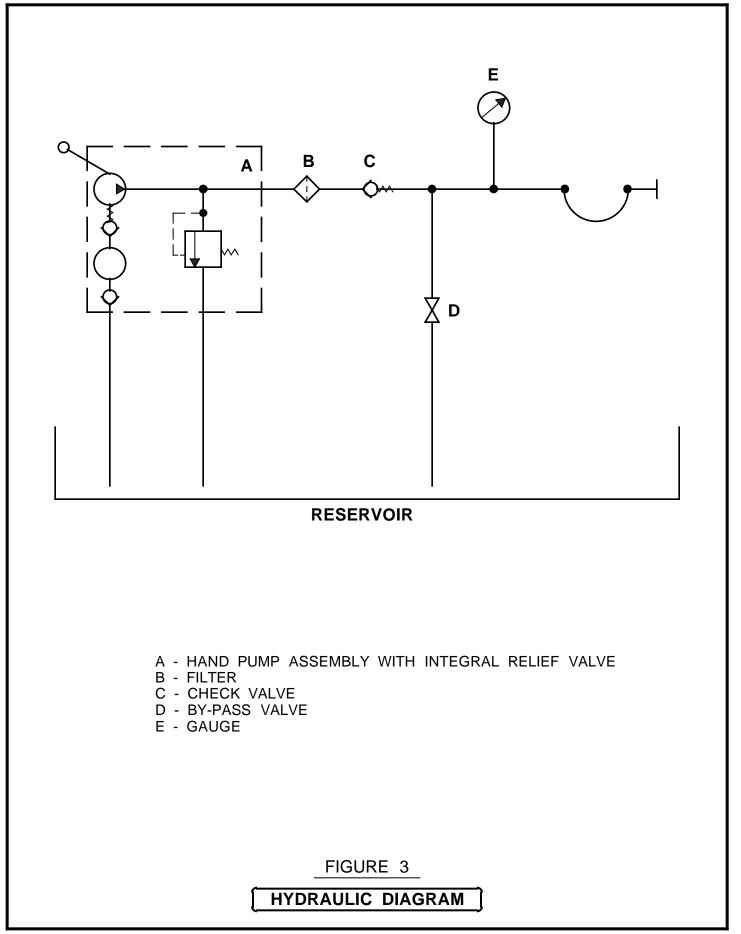
No definite time schedule can be established for the overhaul of the pump assembly for the replacement of the various moving parts. The number of times the pump assembly is operated materially affect the life of the working parts. The moving piston seal (item 6) and rod seal (item 11) are normally the first to wear (see sheet 6). 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 PF2-59PK) 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.











	PF2-59PK REPAIR PARTS KIT			
	PART NO.	PART NAME		
1 1 1 1 1 1 1 1 1 1 1 2 1	PART NO. PF55456-6 PF54063 PF55672 55925-120 55925-216 481-005 495-038 PF53406 AN393-17 373-006 352-011 372-011 412-004 PF2-59PKDOC	PART NAME HOSE ASSEMBLY GASKET O-RING O-RING O-RING FILTER ELEMENT SPRING FLAT HEAD PIN, 3/16 DIA x 17/32 LG FLAT HEAD PIN, 1/4 DIA x 1 9/32 LG HEX JAM NUT, 1/4-28 COTTER PIN, 1/16 x 1/2 LG STEEL BALL, 1/4 DIA REPAIR PARTS KIT LIST		