

# **MALABAR**

**INTERNATIONAL**

***AIRCRAFT MAINTENANCE & SUPPORT EQUIPMENT***

***OWNER'S MANUAL FOR MALABAR MODEL***

## **PF53361-89**

***2 GALLON FLUID DISPENSER***

***READ  
AND  
SAVE***

**THIS  
INSTRUCTION  
MANUAL**

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

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

## GENERAL DESCRIPTION, OPERATION, SERVICE AND PARTS BREAKDOWN

### ***MALABAR MODEL PF53361-89 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 -----	MOBIL JET II	
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
Hose length -----	120 in	3048 mm
Net weight (empty)-----	14 lbs	6.4 kg
Filter rating -----	3 micron nominal	
Fluid tank -----	stainless steel	

#### **GENERAL DESCRIPTION:**

The Malabar Model PF53361-89 is a 2 gallon fluid dispenser used to service various commercial aircraft. The hand pump dispenser consists of a reservoir, pump assembly, filter assembly, fillport assembly, fluid meter and a fluid delivery hose with a coupling.

#### **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:**

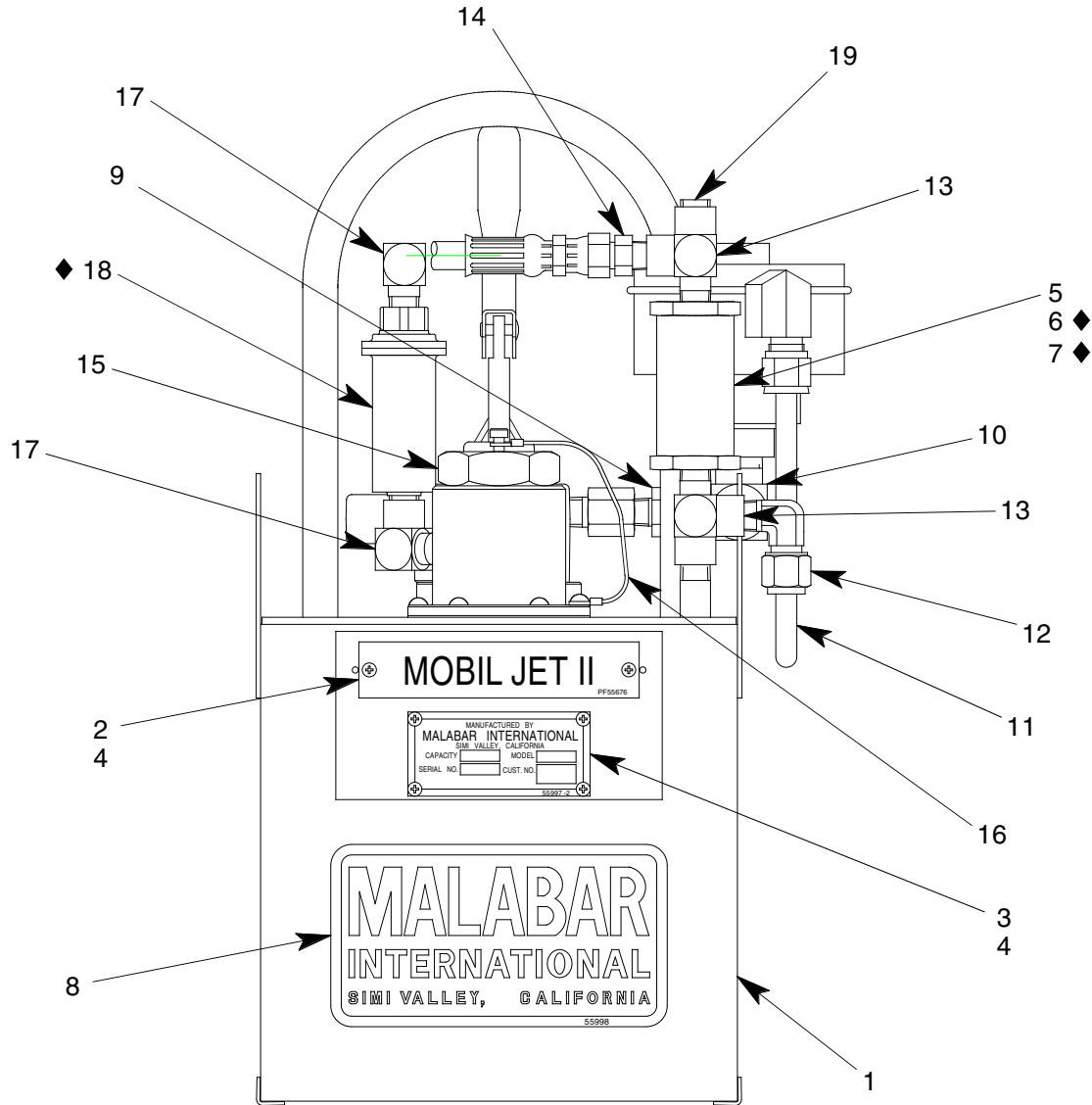
Refer to figure 1A & 1B for unit assembly (see sheets 3 & 4) or figure 2 for pump assembly (see sheet 5).

**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 6 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 4) and rod seal (item 14) 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 4), rod seal (item 14) and gasket (item 13) immediately if leakage is discovered. A repair parts kit (P/N PF2-75PK) is available and recommended to keep on hand at your facility. Refer to sheet 6 for the complete list of parts contained in the repair parts kit.

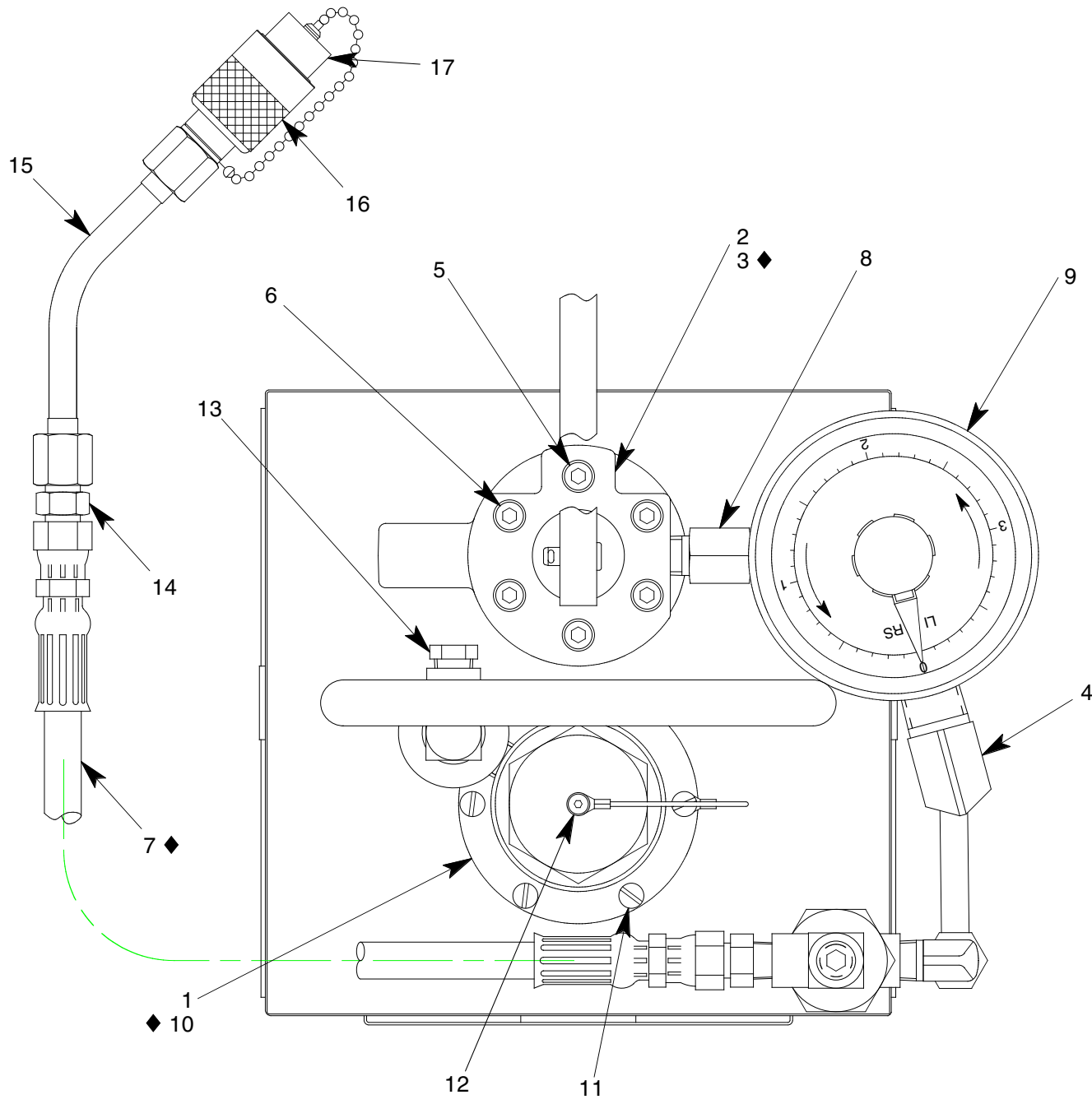


◆ PART OF REPAIR PARTS KIT

FIGURE 1A

**PF53361-89 UNIT ASSEMBLY**

NO.	QTY	PART NO.	PART NAME	NO.	QTY	PART NO.	PART NAME
1	1	PF56086	FLUID TANK	11	1	732-010	TUBING, 3/8 O.D.
2	1	PF55676	PLACARD, MOBIL JET II	12	1	722-014	ELBOW, 3/8 TUBE x 1/4 NPT
3	1	55997-2	NAMEPLATE	13	2	713-048	TEE, RUN, 1/4 NPT
4	6	397-010	SELF TAPPING SCREW, 6-32	14	1	721-004	CONNECTOR, 3/8 37° x 1/4 NPT
5	1	PF71272	FILTER ASSY	15	1	PF56073	FILL CAP
6	1	481-005	FILTER ELEMENT	16	1	370-049	LANYARD
7	1	55925-120	O-RING	17	2	712-008	ELBOW, STREET, 1/4 NPT
8	1	55998	STICKER, MALABAR	18	1	483-013	DESICCANT DRYER
9	1	711-018	NIPPLE, 3/8 NPT x 1/4 NPT	19	1	717-006	PLUG, 1/4 MPT
10	1	712-032	ELBOW, 1/2 NPT x 3/8 NPT				



◆ PART OF REPAIR PARTS KIT

FIGURE 1B

**PF53361-89 UNIT ASSEMBLY**

NO.	QTY	PART NO.	PART NAME	NO.	QTY	PART NO.	PART NAME
1	1	PF56136	RISER	10	1	483-016	GASKET
2	1	PF53415A-1	PUMP ASSEMBLY	11	6	341-009	RHCS, 10-32 x 1/2 LG
3	1	PF55672	GASKET	12	1	330-016	SHSS, SELF-LKG, 3/16 x 1/4
4	1	722-015	ELBOW, 3/8 TUBE x 1/2 NPT	13	1	483-005	BREATHER
5	1	323-063	SHCS, 1/4-28 x 1" LG	14	1	721-006	CONN., 3/8 37° x 3/8 37°
6	5	323-038	SHCS, 1/4-28 x 1 3/4 LG	15	1	PF55817	ELBOW ASSEMBLY
7	1	PF55456	HOSE ASSEMBLY	16	1	736-013	COUPLING
8	1	714-017	BUSHING, 1/4 NPT	17	1	PF55987	DUST PLUG & CHAIN
9	1	486-020	FLUID METER				

◆ PART OF REPAIR PARTS KIT

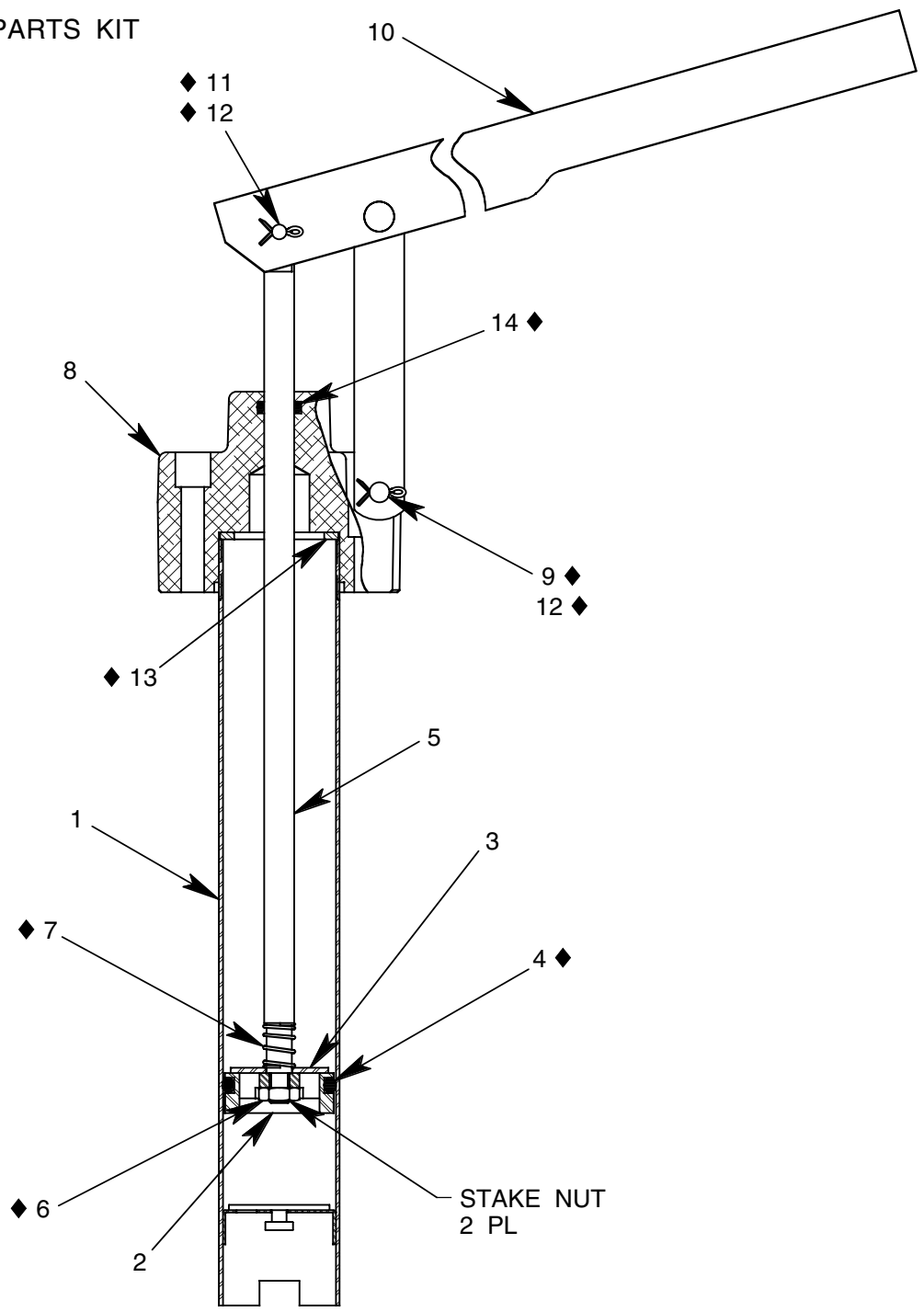


FIGURE 2

**PF53415A-1 PUMP ASSEMBLY**

NO.	QTY	PART NO.	PART NAME	NO.	QTY	PART NO.	PART NAME
1	1	PF53376	TUBE ASSEMBLY	8	1	PF55685	PUMP OUTLET
2	1	PF53379	PISTON	9	1	373-006	FH PIN, 1/4 DIA x 1 9/32 LG
3	1	PF53380	PISTON CHECK DISC	10	1	494-017	HANDLE ASSEMBLY
4	1	55925-216	O-RING	11	1	AN393-17	FH PIN, 3/16 DIA x 17/32 LG
5	1	PF53378	PUMP PISTON ROD	12	2	372-011	COTTER PIN, 1/16 x 1/2 LG
6	1	352-011	HEX JAM NUT, 1/4-28	13	1	PF54063	GASKET
7	1	PF53406	SPRING	14	1	55925-110	O-RING

**PF2-75PK REPAIR PARTS KIT**

QTY	PART NO.	PART NAME
1	PF55456	HOSE ASSEMBLY
1	481-005	FILTER ELEMENT
1	55925-120	O-RING
1	PF55672	GASKET
1	PF53406	SPRING
1	AN393-17	FLAT HEAD PIN, 3/16 DIA x 17/32 LG
1	352-011	HEX JAM NUT, 1/4-28
2	372-011	COTTER PIN, 1/16 DIA x 1/2 LG
1	373-006	FLAT HEAD PIN, 1/4 DIA x 1 9/32 LG
1	55925-216	O-RING
1	55925-110	O-RING
1	PF54063	GASKET
1	483-016	GASKET, FLANGE
1	483-013	DESICCANT DRYER
1	PF2-75PKDOC	REPAIR PARTS KIT LIST