

MALABAR

INTERNATIONAL

AIRCRAFT MAINTENANCE & SUPPORT EQUIPMENT

OWNER'S MANUAL FOR MALABAR MODEL

PF53361-109PWS

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 PF53361-109PWS
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
Relief valve setting-----	125 ± 10 psig	862 ± 69 kPa
Overall hose length -----	84 in	2134 mm
Net weight (empty)-----	12 lbs	5.4 kg
Water stop filter rating-----	1 micron nominal	
Fluid tank color-----	green	

GENERAL DESCRIPTION:

The Malabar Model PF53361-109PWS 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, lockable fillport assembly, pressure gauge and a fluid delivery hose with a hose 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), 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 (item 10) must be installed, otherwise unit will not pump fluid.
2. NOTE: The relief valve should not be removed. The relief valve is set to by-pass oil back to the reservoir at 125 ± 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.

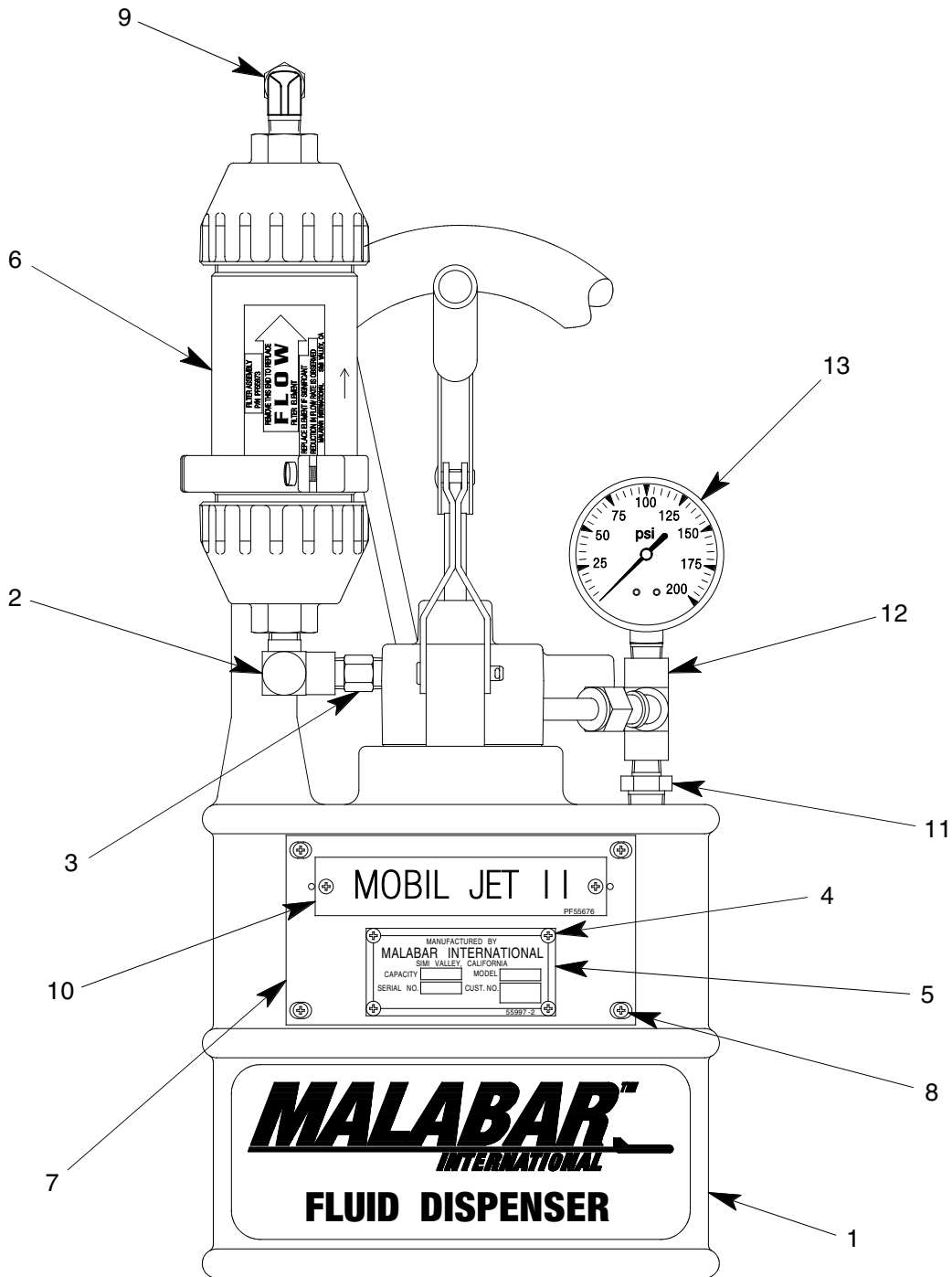
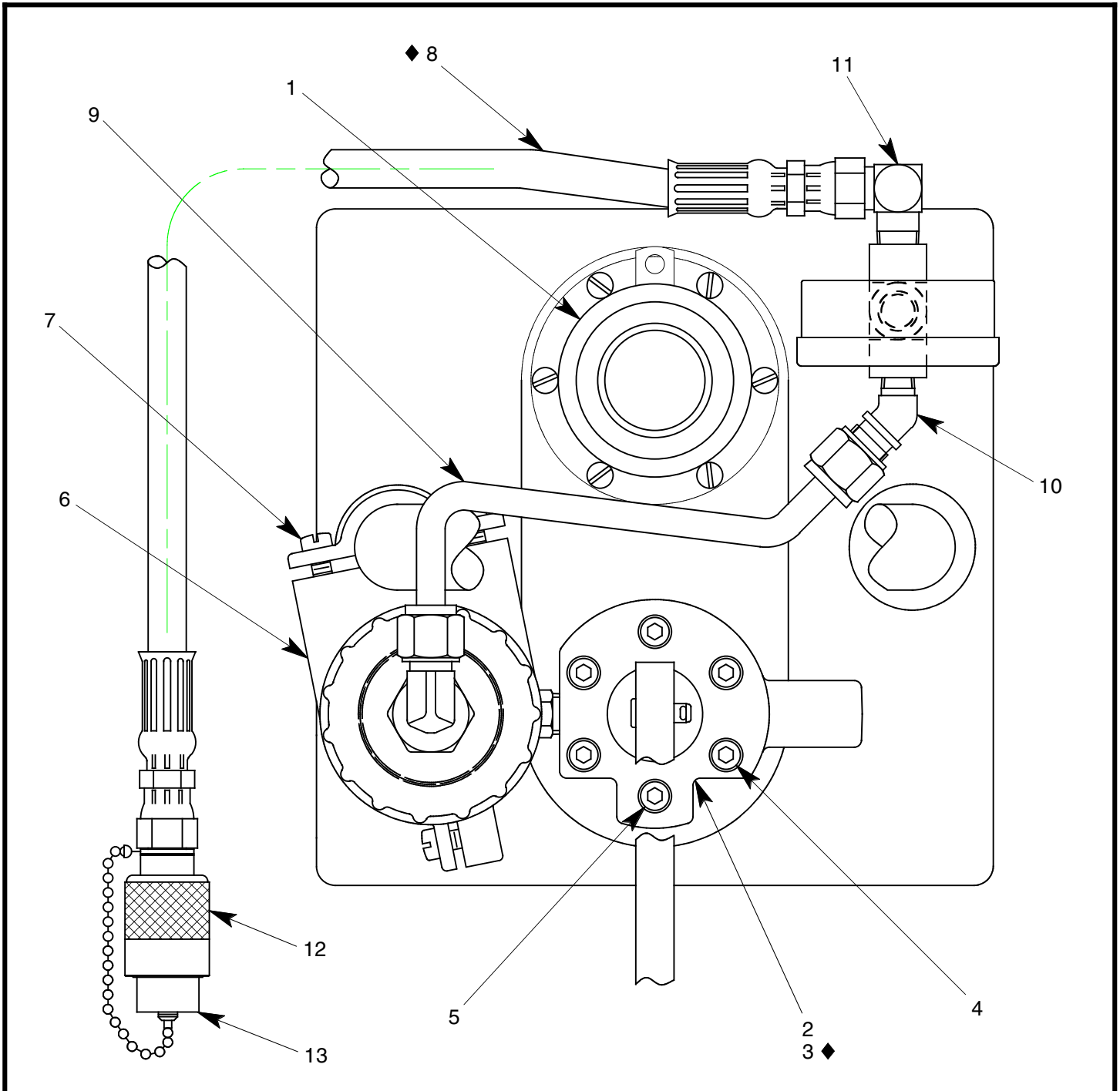


FIGURE 1A

PF53361-109PWS UNIT ASSEMBLY

NO.	QTY	PART NO.	PART NAME	NO.	QTY	PART NO.	PART NAME
1	1	PF55838-3	FLUID TANK	8	6	344-011	FHMS, 6-32 x 7/16 LG
2	1	712-008	ELBOW, STREET, 1/4 NPT	9	1	722-014	ELBOW, 3/8 TUBE x 1/4 NPT
3	1	711-047	NIPPLE, HEX, 1/4 NPT x 1 1/2	10	1	PF55676	PLACARD
4	4	397-010	SELF TAPPING SCREW, 6-32	11	1	711-018	NIPPLE, 3/8 NPT x 1/4 NPT
5	1	55997-2	NAMEPLATE	12	1	715-002	CROSS, 1/4 NPT
6	1	PF55873	FILTER ASSEMBLY	13	1	482-050	GAUGE, 0-200 PSIG
7	1	PF55859	PLACARD PLATE				



◆ PART OF REPAIR PARTS KIT

FIGURE 1B

PF53361-109PWS UNIT ASSEMBLY

NO.	QTY	PART NO.	PART NAME	NO.	QTY	PART NO.	PART NAME
1	1	PF55921	LOCKABLE FILLPORT ASSY	8	1	PF55456-1	HOSE ASSEMBLY
2	1	PF55845-1	PUMP ASSEMBLY	9	1	732-010	TUBING, 3/8 OD x .065 WALL
3	1	PF55672	GASKET	10	1	722-022	ELBOW, 45°, 1/4 NPT x 3/8 T
4	5	323-038	SHCS, 1/4-28 x 1 3/4 LG	11	1	722-005	ELBOW, 90°, 1/4 NPT x 3/8 37°
5	1	323-063	SHCS, 1/4-28 x 1" LG	12	1	736-013	COUPLING
6	1	PF55871-1	YOKE CLAMP	13	1	PF55987	DUST PLUG & CHAIN
7	3	342-010	SCREW, FIL HD, 1/4-20 x 1" LG				

◆ PART OF REPAIR PARTS KIT

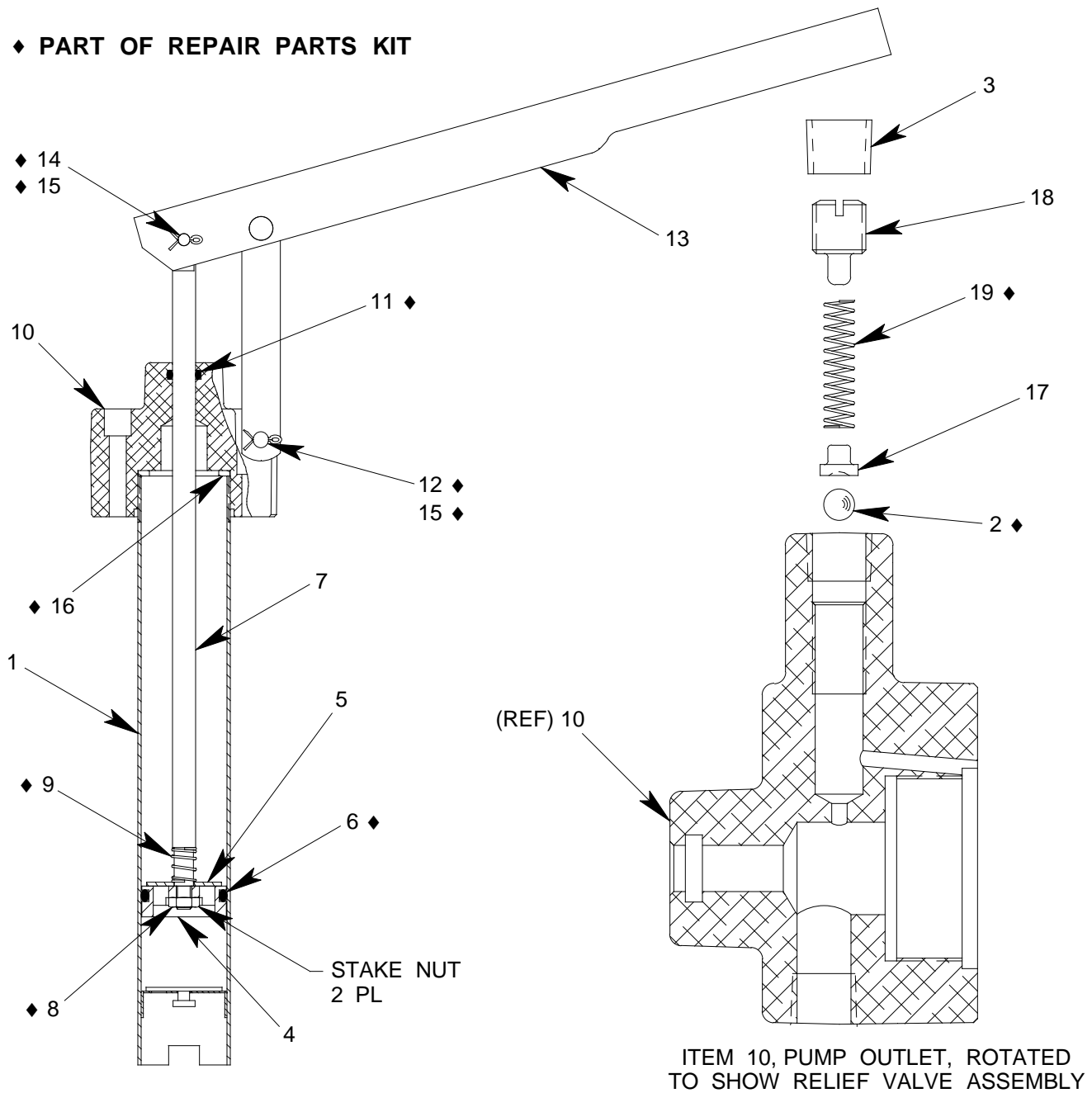
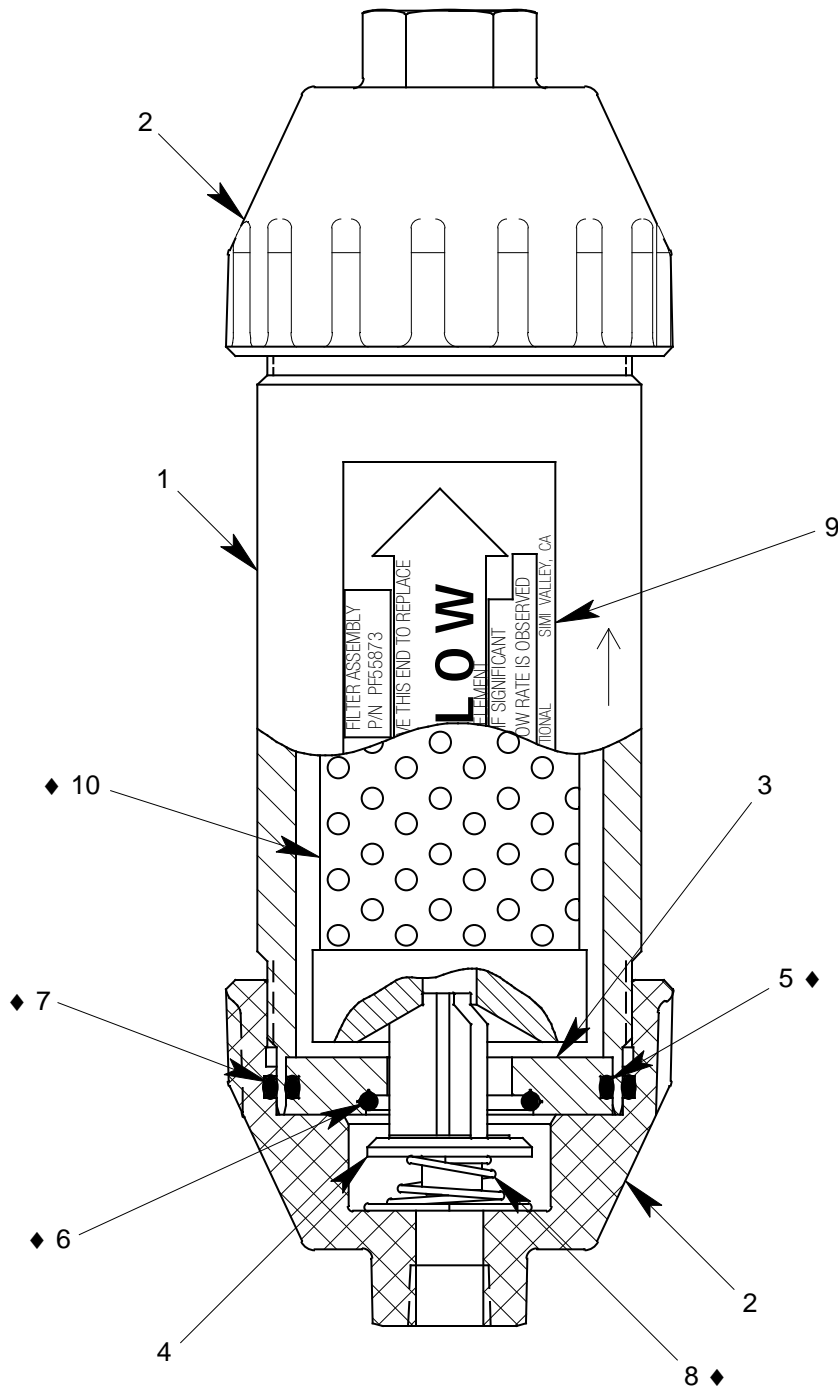


FIGURE 2

PF55845-1 PUMP ASSEMBLY

NO.	QTY	PART NO.	PART NAME	NO.	QTY	PART NO.	PART NAME
1	1	PF53376	TUBE ASSEMBLY	11	1	55925-110	O-RING
2	1	412-004	STEEL BALL, 1/4 DIA	12	1	373-006	FH PIN, 1/4 DIA x 1 9/32 LG
3	1	717-006	PLUG, 1/4 NPT	13	1	494-017	HANDLE ASSEMBLY
4	1	PF53379	PISTON	14	1	AN393-17	FH PIN, 3/16 DIA x 17/32 LG
5	1	PF53380	PISTON CHECK DISC	15	2	372-011	COTTER PIN, 1/16 x 1/2 LG
6	1	55925-216	O-RING	16	1	PF54063	GASKET
7	1	PF53378	PUMP PISTON ROD	17	1	55153	SPRING GUIDE
8	1	352-011	HEX JAM NUT, 1/4-28	18	1	55148	SET SCREW
9	1	PF53406	SPRING	19	1	495-038	SPRING
10	1	PF55820-1	PUMP OUTLET				



◆ PART OF REPAIR PARTS KIT

FIGURE 3

PF55873 FILTER ASSEMBLY

NO.	QTY	PART NO.	PART NAME	NO.	QTY	PART NO.	PART NAME
1	1	PF55849	FILTER HOUSING	6	1	55925-120	O-RING
2	2	PF55852	FILTER HOUSING END CAP	7	2	55925-140	O-RING
3	1	PF55853	RETAINER DISC	8	1	495-039	SPRING
4	1	PF55850	RETAINER VALVE	9	1	PF55872	DECAL, FLOW
5	1	55925-135	O-RING	10	1	481-068	FILTER ELEMENT

PF2-41PK REPAIR PARTS KIT

QTY	PART NO.	PART NAME
1	PF55456-1	HOSE ASSEMBLY
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	PF54063	GASKET
1	495-038	SPRING
1	412-004	STEEL BALL, 1/4 DIA
1	55925-135	O-RING
1	55925-120	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	PF2-41PKDOC	REPAIR PARTS KIT LIST