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MALABAR

INTERNATIONAL

AIRCRAFT MAINTENANCE & SUPPORT EQUIPMENT

OWNER'S MANUAL FOR MALABAR MODEL

PF55518-1P

2 GALLON FLUID DISPENSER

***READ
AND
SAVE***

**THIS
INSTRUCTION
MANUAL**

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

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OVER 50 YEARS OF SERVICE & EXPERIENCE

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GENERAL DESCRIPTION, OPERATION, SERVICE AND PARTS BREAKDOWN

MALABAR MODEL PF55518-1P 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-H-5606	
Reservoir capacity	2 U.S. gal	7.6 liters
Pump outlet pressure	500 psig	3447 kPa
Volume per stroke	1.4 cubic in	23 cc
Relief valve setting	500 ± 10 psig	3447 ± 69 kPa
Hose length	84 in	2134 mm
Net weight (empty)	15 lbs	6.8 kg
Filter rating	3 micron nominal	
Fluid tank color	red	

GENERAL DESCRIPTION:

The Malabar Model PF55518-1P is a 2 gallon fluid dispenser used to service the airbus landing gear. The hand pump dispenser consists of a reservoir, pump assembly, filter assembly, check valve, relief valve, by-pass valve, pressure gauge 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. Close by-pass valve.
2. Connect the high pressure valve 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 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).

HYDRAULIC DIAGRAM:

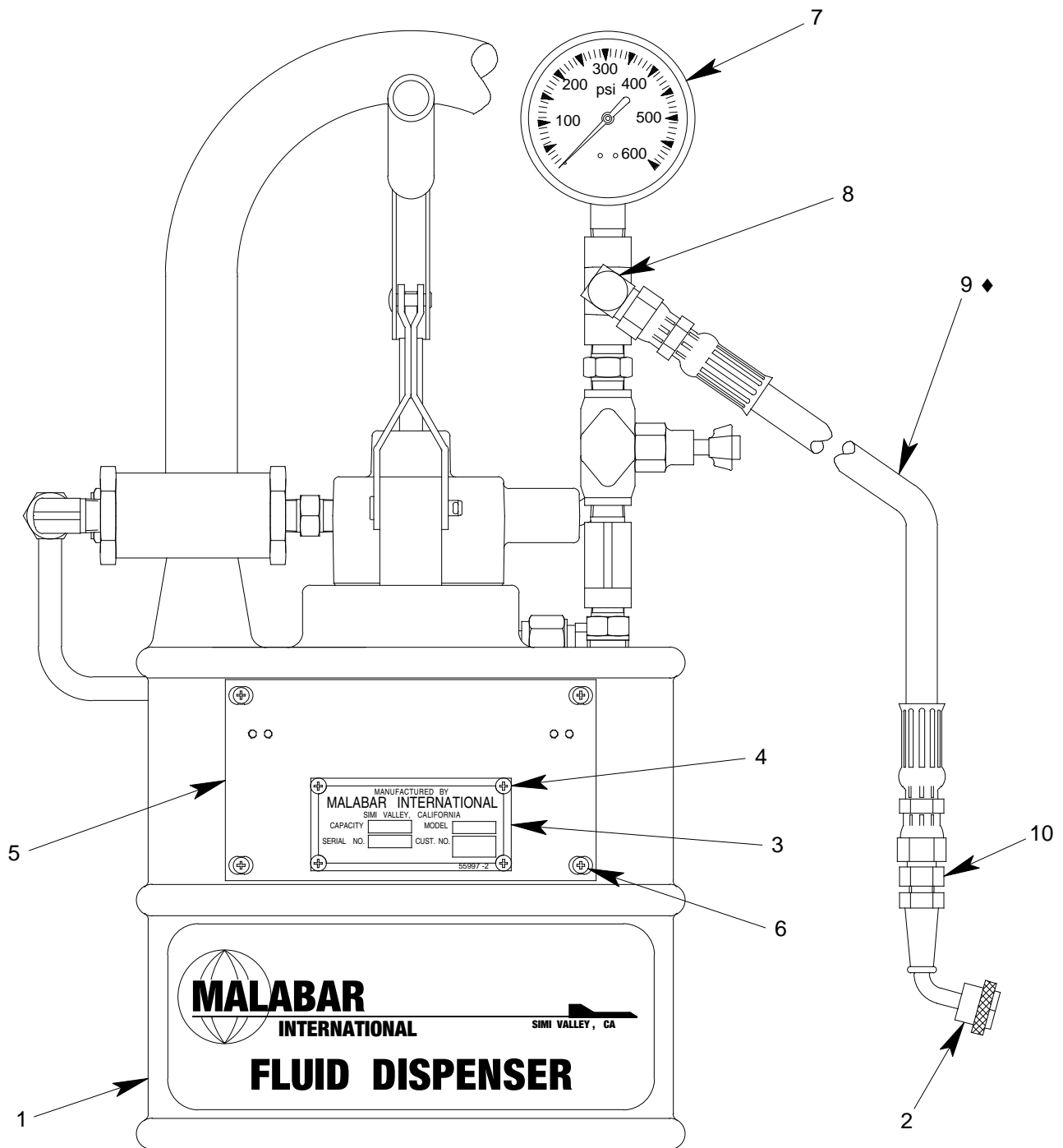
Refer to figure 3 for hydraulic diagram (see sheet 7).

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. NOTE: The relief valve should not be removed. The relief valve is set to by-pass oil back to the reservoir at 500 ± 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 4) and rod seal (item 14) 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 4), rod seal (item 14) and static seal (item 13) immediately if leakage is discovered. A repair parts kit (P/N PF2-57PK) 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.

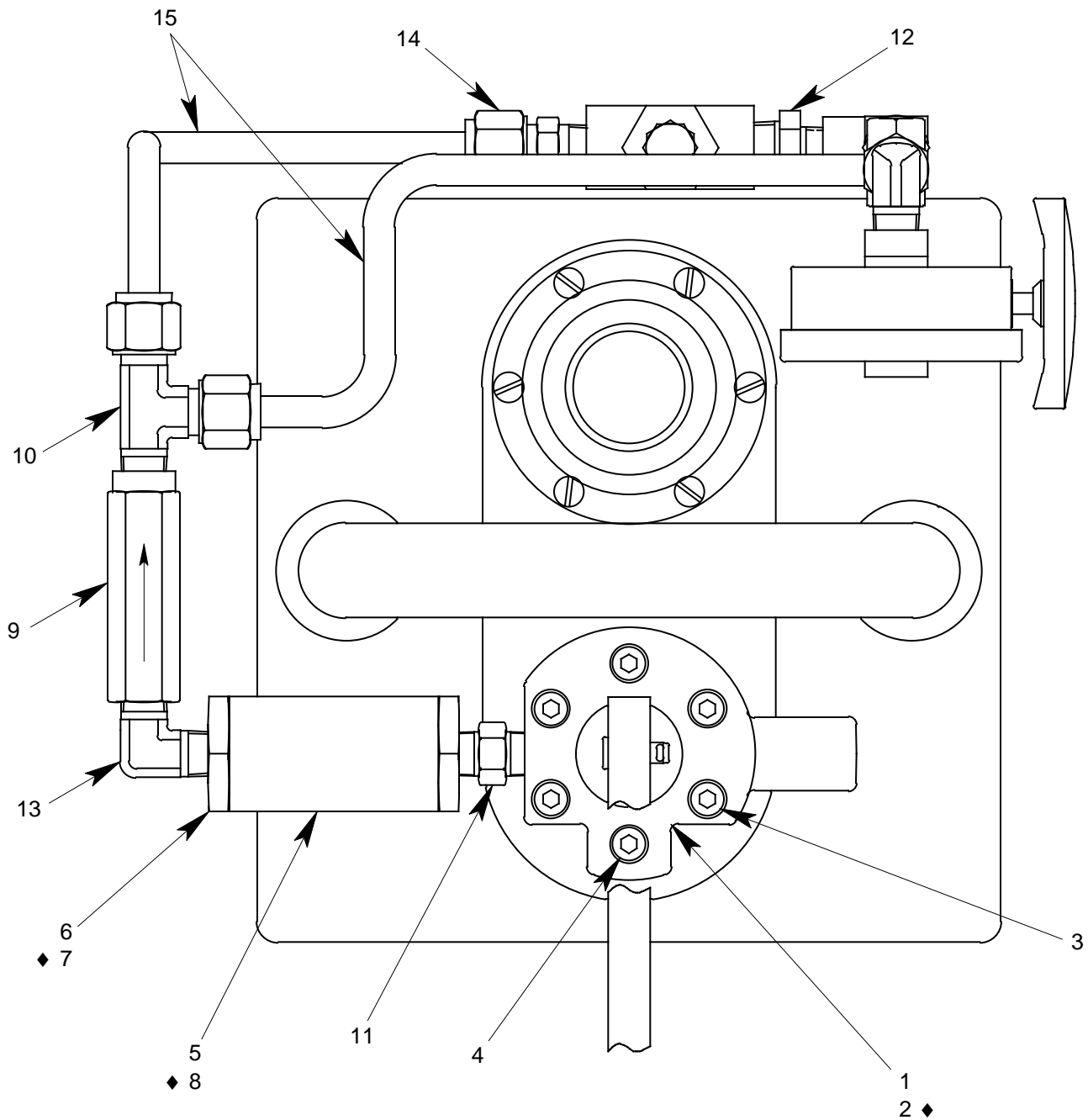


◆ PART OF REPAIR PARTS KIT

FIGURE 1A

PF5518-1P UNIT ASSEMBLY

NO.	QTY	PART NO.	PART NAME	NO.	QTY	PART NO.	PART NAME
1	1	PF55838-1	FLUID TANK	6	4	344-011	FHMS, 6-32 x 7/16 LG
2	1	719-045	HIGH PRESSURE VALVE	7	1	482-014	GAUGE, 0-600 PSI
3	1	55997-2	NAMEPLATE	8	1	722-005	ELBOW, 1/4 NPT x 3/8 37°
4	4	397-010	SELF TAPPING SCREW, 6-32	9	1	PF55566-2	HOSE ASSEMBLY
5	1	PF55859	PLACARD PLATE	10	1	721-103	CONNECTOR, 3/8 T x 1/8 NPT



◆ PART OF REPAIR PARTS KIT

FIGURE 1B

PF5518-1P UNIT ASSEMBLY

NO.	QTY	PART NO.	PART NAME	NO.	QTY	PART NO.	PART NAME
1	1	PF55525	PUMP ASSEMBLY	9	1	422-013	CHECK VALVE
2	1	PF55672	GASKET	10	1	723-009	UNION TEE, 3/8 TUBE x 1/4 NPT
3	5	323-038	SHCS, 1/4-28 x 1 3/4 LG	11	1	711-003	NIPPLE, 1/4 NPT
4	1	323-063	SHCS, 1/4-28 x 1" LG	12	1	711-018	NIPPLE, 3/8 NPT x 1/4 NPT
5	1	PF712721	FILTER HOUSING	13	1	712-022	ELBOW, 1/4 NPT
6	1	PF712722	FILTER RETAINER	14	1	721-009	CONNECTOR, 3/8 T x 1/4 NPT
7	1	55925-120	O-RING	15	1	732-002	TUBING, 3/8 OD x .049 WALL
8	1	481-005	FILTER ELEMENT				

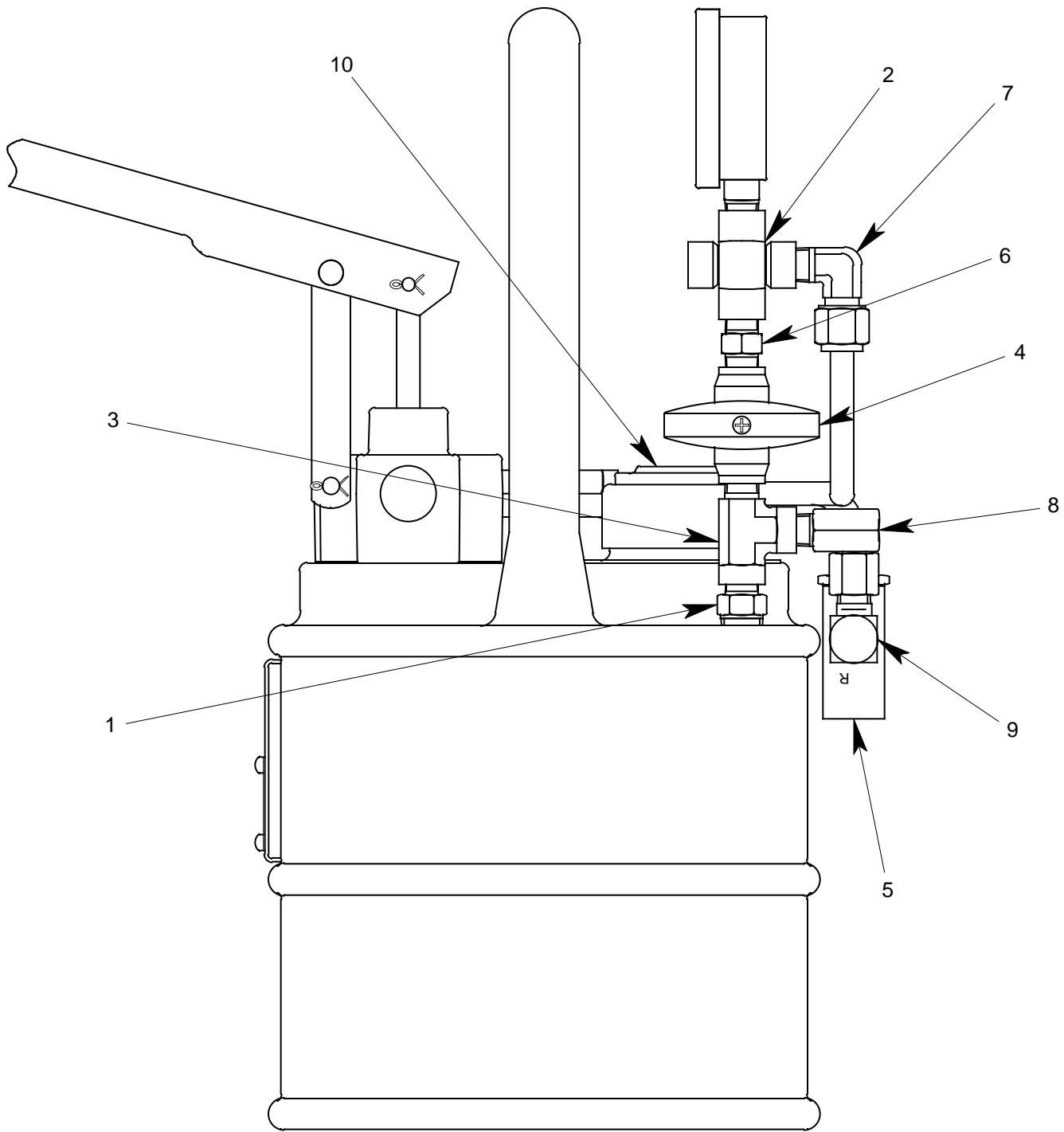


FIGURE 1C

PF55518-1P UNIT ASSEMBLY

NO.	QTY	PART NO.	PART NAME	NO.	QTY	PART NO.	PART NAME
1	1	711-018	NIPPLE, 1/4 NPT x 3/8 NPT	6	1	711-003	NIPPLE, 1/4 NPT
2	1	715-002	CROSS, 1/4 NPT	7	1	722-014	ELBOW, 3/8 TUBE x 1/4 NPT
3	1	713-012	RUN TEE, 1/4 NPT	8	1	719-013	ELBOW, SWIVEL, 1/4 NPT
4	1	424-017	BY-PASS VALVE	9	1	712-008	ELBOW, STREET, 1/4 NPT
5	1	423-002	RELIEF VALVE	10	1	PF55447	FILLPORT ASSEMBLY

◆ PART OF REPAIR PARTS KIT

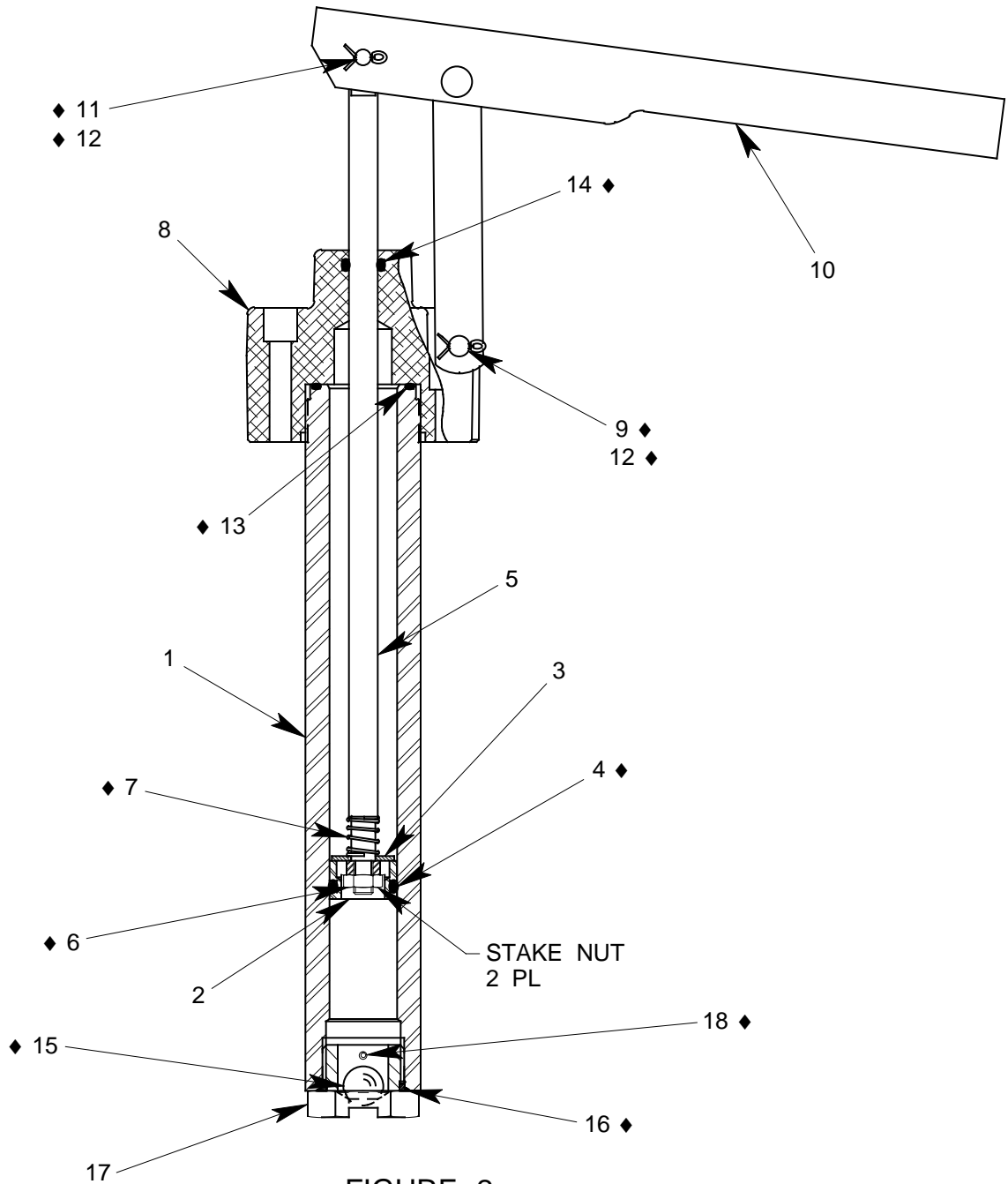
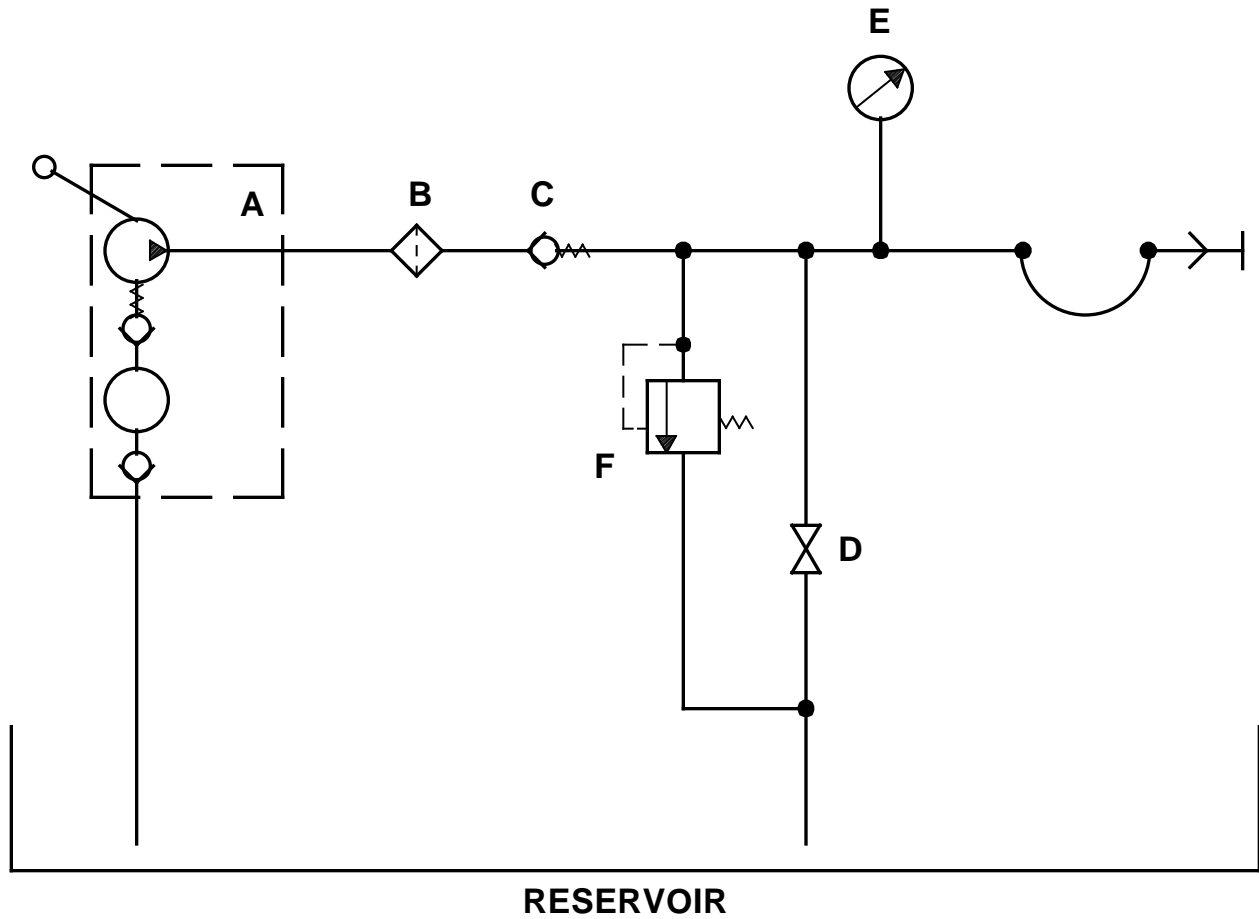


FIGURE 2

PF55525 PUMP ASSEMBLY

NO.	QTY	PART NO.	PART NAME	NO.	QTY	PART NO.	PART NAME
1	1	PF55441	PUMP TUBE	10	1	494-017	HANDLE ASSEMBLY
2	1	PF55452	PUMP PISTON	11	1	AN393-17	FH PIN, 3/16 DIA x 17/32 LG
3	1	PF55453	PUMP PISTON DISC	12	2	372-011	COTTER PIN, 1/16 x 1/2 LG
4	1	55925-115	O-RING	13	1	55925-024	O-RING
5	1	PF53378	PUMP PISTON ROD	14	1	55925-110	O-RING
6	1	352-011	HEX JAM NUT, 1/4-28	15	1	412-006	STEEL BALL, 1/2 DIA
7	1	PF53406	SPRING	16	1	55925-912	O-RING
8	1	PF55685	PUMP OUTLET	17	1	PF55442	VALVE BODY
9	1	373-006	FH PIN, 1/4 DIA x 1 9/32 LG	18	1	371-017	ROLL PIN, 3/32 DIA x 7/8 LG



- A - HAND PUMP ASSEMBLY
- B - FILTER
- C - CHECK VALVE
- D - BY-PASS VALVE
- E - GAUGE
- F - RELIEF VALVE

FIGURE 3

HYDRAULIC DIAGRAM

PF2-57PK REPAIR PARTS KIT

QTY	PART NO.	PART NAME
1	PF55566-2	HOSE ASSEMBLY
1	PF55672	GASKET
1	55925-120	O-RING
1	481-005	FILTER ELEMENT
1	373-006	FLAT HEAD PIN, 1/4 DIA x 1 9/32 LG
2	372-011	COTTER PIN, 1/16 DIA x 1/2 LG
1	AN393-17	FLAT HEAD PIN, 3/16 DIA x 17/32 LG
1	55925-024	O-RING
1	PF53406	SPRING
1	412-006	STEEL BALL, 1/2 DIA
1	55925-110	O-RING
1	55925-912	O-RING
1	55925-115	O-RING
1	352-011	HEX JAM NUT, 1/4-28
1	371-017	ROLL PIN, 3/32 DIA x 7/8 LG
1	PF2-57PKDOC	REPAIR PARTS KIT LIST