

# **MALABAR**

**INTERNATIONAL**

***AIRCRAFT MAINTENANCE & SUPPORT EQUIPMENT***

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

## **PF53481-133P**

***5 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 PF53481-133P  
5 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-5606	
Reservoir capacity -----	5 U.S. gal	18.9 liters
Pump outlet pressure -----	100 psig	689 kPa
Volume per stroke-----	3.0 cubic in	49 cc
Hose length-----	240 in	6096 mm
Net weight (empty)-----	35 lbs	15.9 kg
Filter rating-----	3 micron nominal	
Fluid tank color-----	red	

**GENERAL DESCRIPTION:**

The Malabar Model PF53481-133P is a 5 gallon fluid dispenser used to service various commercial aircraft. The hand pump dispenser consists of a reservoir, pump assembly, filter assembly, lockable fillport assembly, fluid meter and a fluid delivery hose with an elbow 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:**

1. Connect the elbow assembly to the aircraft service point.
2. Use full steady pumping strokes when operating pump assembly during replenishing.
3. Disconnect the elbow assembly from the aircraft service point and store the unit in a dry, dust free location.

**ILLUSTRATED PARTS LIST:**

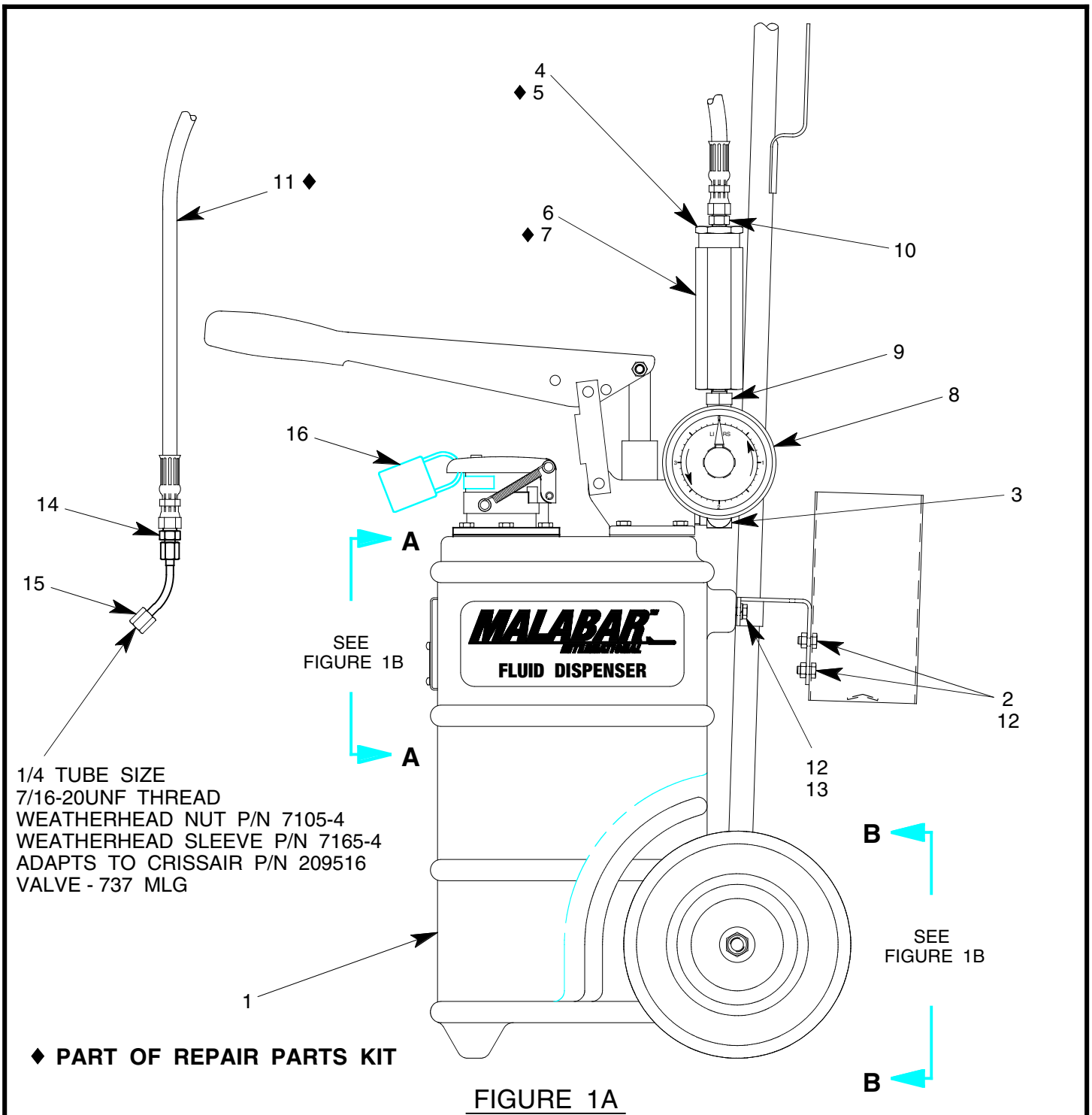
Refer to figure 1A, 1B & 1C for unit assembly (see sheets 3, 4 & 5) or figure 2 for pump assembly (see sheet 6).

**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 7 in figure 1A (see sheet 3) to change element.

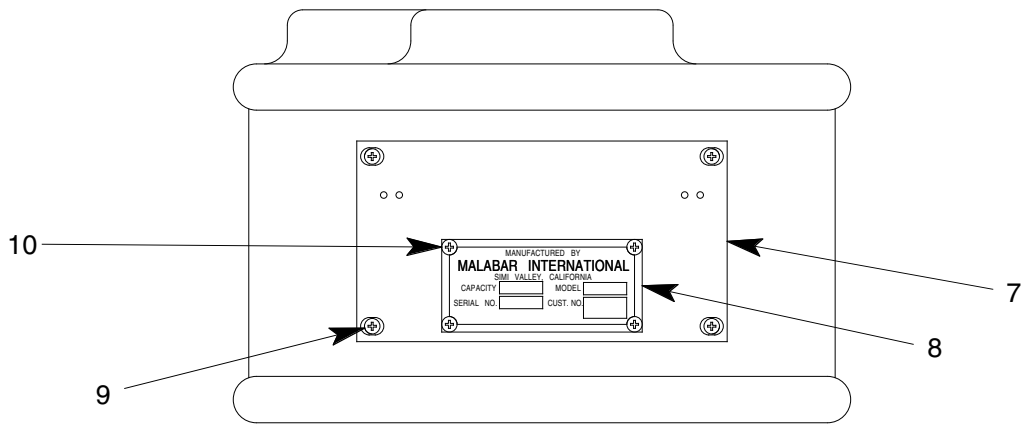
**REPAIR AND REPLACEMENT:**

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 14) and rod seal (item 15) 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 14) and rod seal (item 15) immediately if leakage is discovered. A repair parts kit (P/N PF5-49PK) 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.

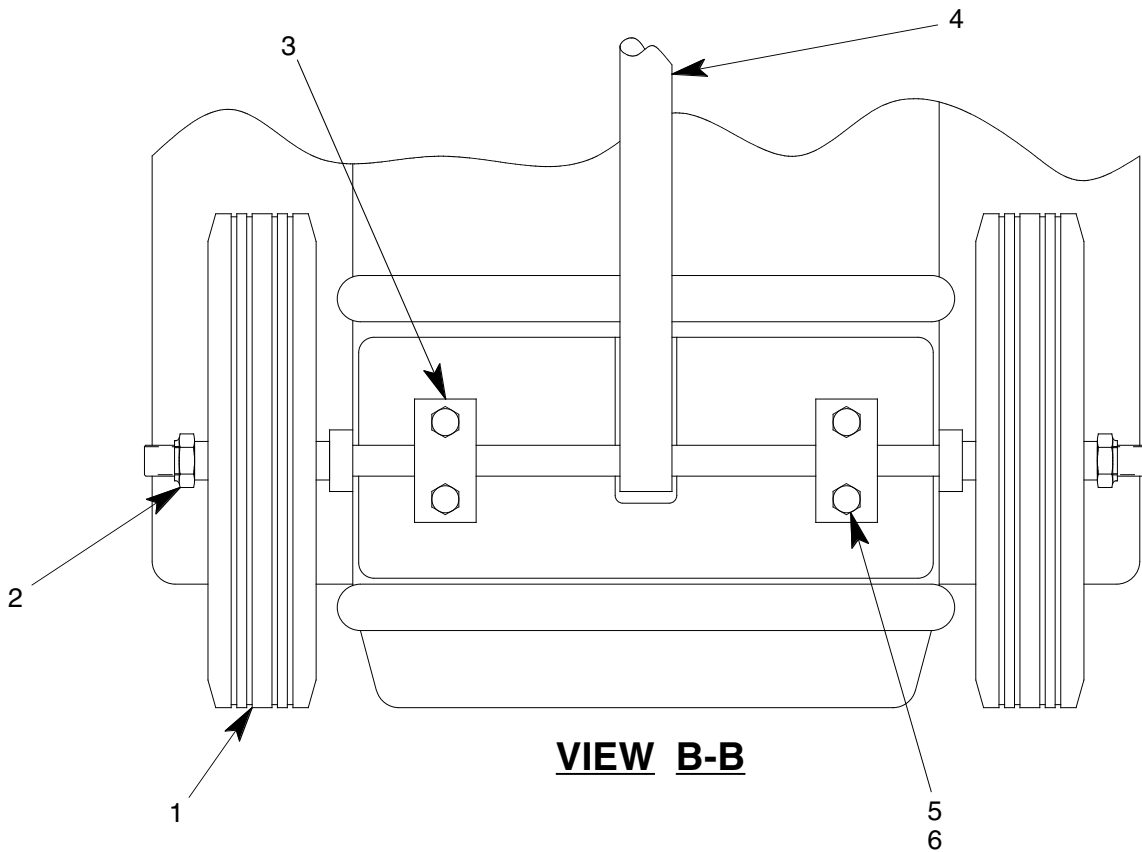


**PF53481-133P UNIT ASSEMBLY**

NO.	QTY	PART NO.	PART NAME	NO.	QTY	PART NO.	PART NAME
1	1	PF55836-1	FLUID TANK	9	1	711-079	NIPPLE, 1/4 NPT x 1/2 NPT
2	2	355-007	NUT, SELF LOCK, 1/4-28	10	1	721-004	CONN., 3/8 37° x 1/4 NPT
3	1	712-017	ELBOW, STREET, 3/8 NPT	11	1	PF55456-3	HOSE ASSEMBLY
4	1	PF101163	END CAP, FILTER HOUSING	12	4	329-007	HHCS, 1/4-28 x 21/32 LG
5	1	55925-025	O-RING	13	2	363-001	SPLIT LOCKWASHER, 1/4
6	1	PF101161	BODY, FILTER HOUSING	14	1	721-102	CONN., 3/8 37° x 1/4 37°
7	1	481-006	FILTER ELEMENT	15	1	PF55507-6	ELBOW ASSY
8	1	486-020	FLUID METER, LITERS	16	REF		LOCK SUPPLIED BY OTHERS



**VIEW A-A**

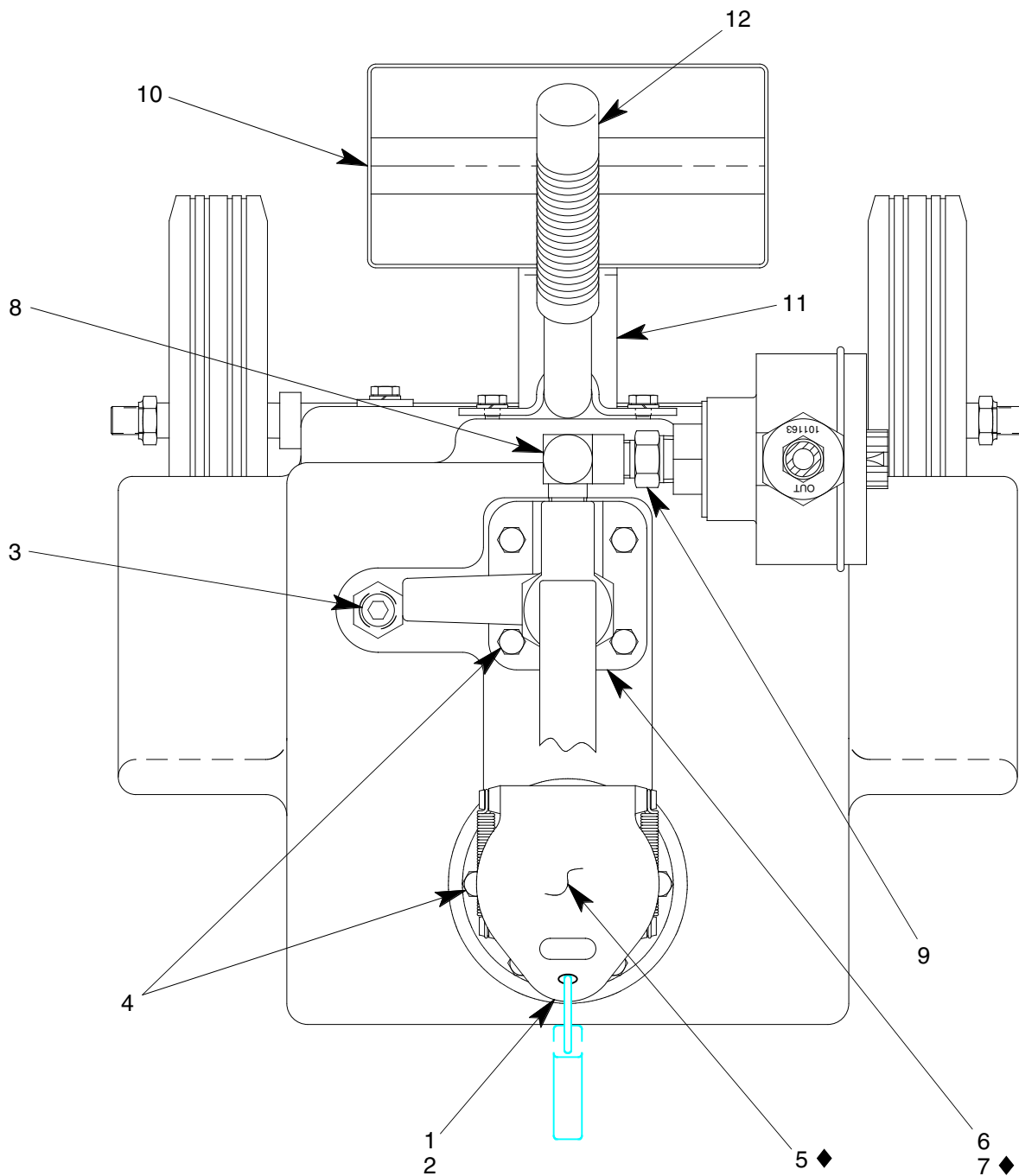


**VIEW B-B**

**FIGURE 1B**

**PF53481-133P UNIT ASSEMBLY**

NO.	QTY	PART NO.	PART NAME	NO.	QTY	PART NO.	PART NAME
1	2	PF53240	WHEEL	6	4	363-001	SPLIT LOCKWASHER, 1/4
2	2	355-013	LOCKNUT	7	1	PF55859	PLACARD PLATE
3	2	PF55858	SUPPORT STRAP	8	1	55997-2	NAMEPLATE
4	1	PF55841	AXLE-HANDLE WELDMENT	9	4	344-011	FHMS, 6-32 x 7/16 LG
5	4	329-007	HHCS, 1/4-28 x 21/32 LG	10	4	397-010	SELF TAPPING SCREW, 6-32

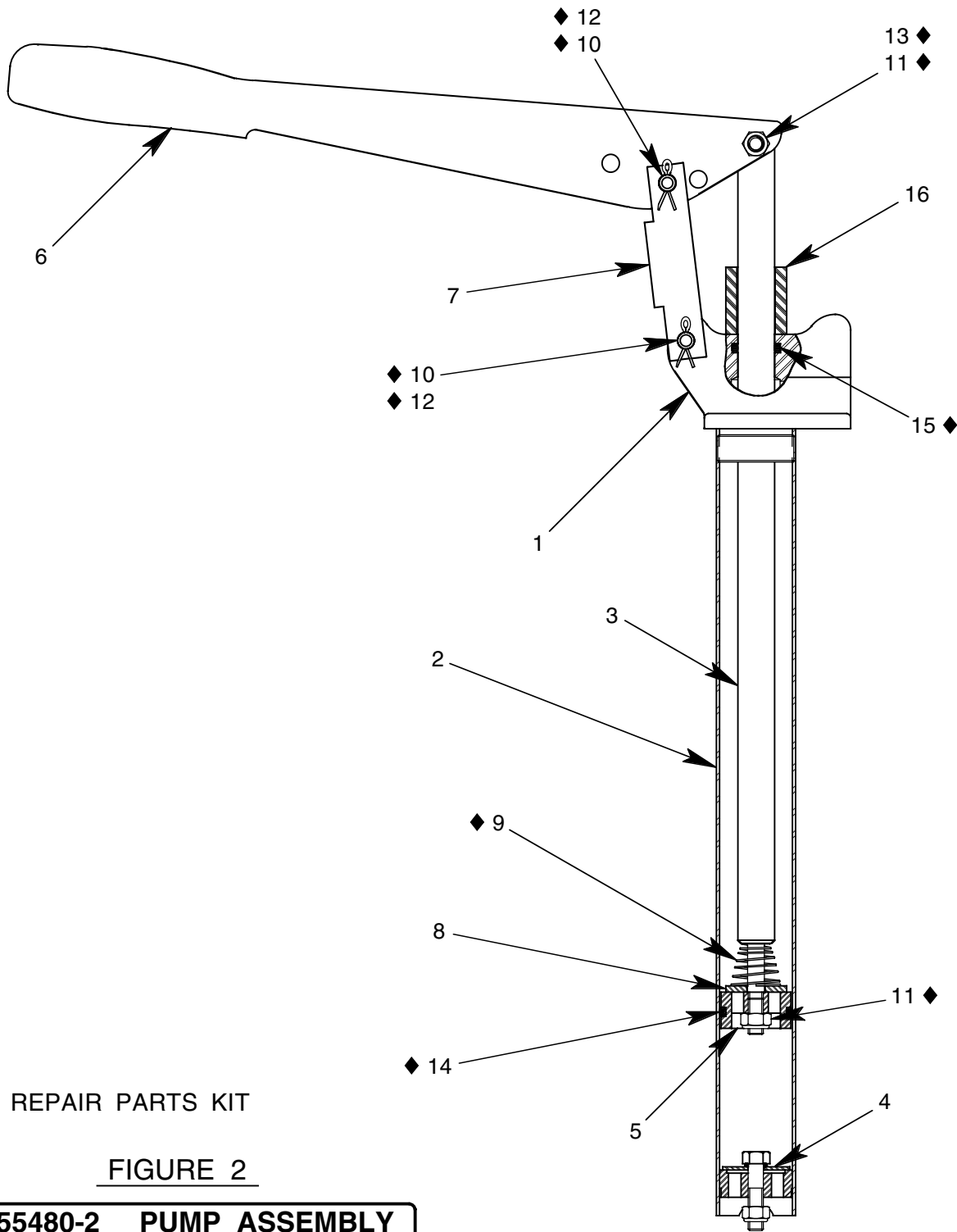


◆ PART OF REPAIR PARTS KIT

FIGURE 1C

**PF53481-133P UNIT ASSEMBLY**

NO.	QTY	PART NO.	PART NAME	NO.	QTY	PART NO.	PART NAME
1	1	PF55956	FILLPORT ASSEMBLY	7	1	PF53602	GASKET
2	1	PF53628	GASKET, FILLPORT	8	1	712-017	ELBOW, STREET, 3/8 NPT
3	1	717-007	PLUG, 3/8 NPT	9	1	711-022	NIPPLE, 3/8 NPT x 1/2 NPT
4	10	329-007	HHCS, 1/4-28 x 21/32 LG	10	1	PF53842	BOX
5	1	55925-329	O-RING	11	1	PF55865	HANDLE SUPPORT WELD
6	1	PF55480-2	PUMP ASSEMBLY	12	1	494-006	HANDLE GRIP



◆ PART OF REPAIR PARTS KIT

FIGURE 2

**PF55480-2 PUMP ASSEMBLY**

NO.	QTY	PART NO.	PART NAME	NO.	QTY	PART NO.	PART NAME
1	1	PF55466	PUMP BODY	9	1	PF53600	SPRING
2	1	PF53514	TUBE	10	2	PF53518	PIN
3	1	PF53515	PLUNGER ROD	11	2	355-021	SELF LOCK NUT, 5/16-24
4	1	PF53594	VALVE ASSEMBLY	12	2	372-001	COTTER PIN, 3/32 x 3/4 LG
5	1	PF53599	PLUNGER BODY	13	1	AN5-12A	HHCS, 5/16-24 x 1 11/32
6	1	PF53517	HANDLE	14	1	55925-218	O-RING
7	1	PF53533	LINK	15	1	55925-210	O-RING
8	1	PF53535	VALVE PLATE	16	1	PF55867	HANDLE STOP

**PF5-49PK REPAIR PARTS KIT**

QTY	PART NO.	PART NAME
1	PF55456-3	HOSE ASSEMBLY
1	481-006	FILTER ELEMENT
1	55925-025	O-RING
1	55925-329	O-RING
1	PF53602	PUMP GASKET
1	PF53600	SPRING
2	PF53518	PIN
2	355-021	SELF LOCK NUT, 5/16-24
2	372-001	COTTER PIN, 3/32 DIA x 3/4 LG
1	AN5-12A	HHCS, 5/16-24 x 1 11/32 LG
1	55925-218	O-RING
1	55925-210	O-RING
1	PF5-49PKDOC	REPAIR PARTS KIT LIST