

SERIES 100 ROTARY HAND PUMP AND MODEL 111 COUNTER ASSEMBLY

Owner's Operation & Safety Manual Models FR110, FR112, FR113

SAFETY INSTRUCTIONS

To ensure safe and efficient operation, it is essential to read and follow each of these warnings and precautions.

- Improper use or installation of this product can cause serious bodily injury or death.
- Do NOT smoke near pump or use pump near an open flame when pumping flammable fluids. Fire could result.
- 3. A Fill-Rite filter should be used on pump outlet to ensure that no foreign material is transferred to fuel tank.
- Use gasoline and oil resistant thread sealant or sealant tape on all threaded joints to protect against leakage.
- Storage tank or barrel should be anchored to prevent tipping in both the full and empty conditions.
- To minimize static electricity build-up, keep nozzle in contact with container being filled.

WARNING

This product should not be used for fluid transfer into aircraft. This product is not suited for use with fluids for human consumption or fluids containing water.

Fluid Compatibility

If in doubt about compatibility of a specific fluid, contact supplier of fluid to check for any adverse reactions to the wetted materials.

The 100 is compatible with the following fluids:

- Gasoline, Diesel, Heptane, Kerosene, Stoddard Solvent, Light Oils, Mineral Spirits
- Do NOT use the 100 with the following fluids:
- Water, Sulfuric Acid, Naptha, Methanol, Methyl Ethyl Ketone (MEK), Acetone, Ammonia, Benzene, Bleach, Chlorine

SAFETY APPROVAL



INSTALLATION

NOTE: All pipe threads must have a sealant to protect against leaks. Use sealant tape provided with the pump, or use a gasoline and oil resistant pipe sealant.

- 1. Screw suction pipe into pump inlet flange and tighten.
- Extend suction pipe into tank or barrel opening to within 3" of bottom of tank or barrel. Do not rest suction pipe on bottom.
- Screw inlet flange of pump completely and securely into undamaged tank or barrel bung.

PUMPS WITH HOSE AND NOZZLE

Screw one end of hose into pump discharge opening and the nozzle to other end of hose.

PUMPS WITH DISCHARGE SPOUTS

4. Screw discharge spout assembly into top of pump.

PUMPS WITH METER, HOSE AND NOZZLE

4. Screw street elbow into top of pump, nipple into street elbow, meter onto nipple. Note: Position the meter to the right of the handle facing operator for ease of operator viewing. Screw one end of hose into meter outlet and the nozzle to the other end of hose.

COUNTER INSTALLATION

- 1. Remove crank from shaft.
- Remove two screws directly above horizontal centerline of pump.
- 3. Push drive gear onto shaft with flat in gear hole located on longer flat of shaft.
- Position counter on pump and attach with two screws and two washers.
- 5. Reattach crank.

PUMP FLOW REVERSAL INSTRUCTIONS

- 1. Remove the Vacuum Breaker (item 2) and install a pipe plug.
- 2. Take out Check Valve Assembly (item 25).
- 3. Turn the handle backwards for reverse flow, normal direction for normal flow.

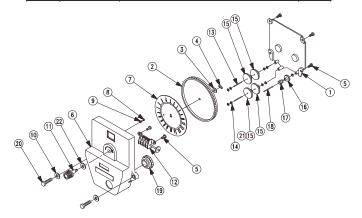
TROUBLESHOOTING

IF PUMP FAILS TO PRIME: Check suction line for leaks or obstructions. Check vanes and slots for nicks, burrs or wear. Check rotor for excessive wear or damage.

LOW PUMPING CAPACITY: Remove and clean screen. Check for leaks in suction line. Check rotor and vanes for excessive wear and damage. Check for dirty filter on outlet side.

PUMP FLUID LEAKAGE: Clean O-ring seal and seat area. Replace seal. Replace vacuum breaker. Tighten covers and joints. Check for dirty filter on outlet side.

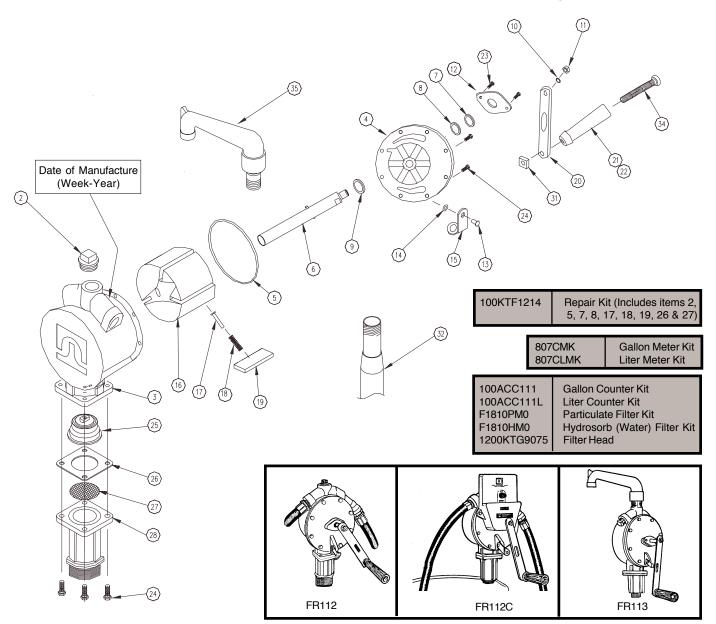
ITM. PART NO. DESCRIPTION 1 100F0890 Counter Back 2 100F0900 Dial Wheel 3 100F1040 #10L Washer	QTY.
2 100F0900 Dial Wheel 3 100F1040 #10L Washer	1 1
3 100F1040 #10L Washer	1
4 100F1050 3/16 Prong-Lock Retainer	1
5 100F1060 Screw PHMS #8 x 3/8 (Type B)	6
6 100F0880 Counter Cover	1
7 100F0910 Dial - 20 Gallon	1
100F0915 Dial - Liter	Opt.
8 100F1010 Reset Stop Pin	1
9 100F1020 Reset Stop Spring	1
10 704F3811 1/4 Washer	2
11 100F0921 Reset Knob	1
12 100F0960 Totalizer Assembly - U.S. Gallon	1
100F0961 Totalizer Assembly - Liter	Opt.
13 100F0950 Cluster Gear Shaft	2
14 800F3830 #2S Washer	9
15 100F0940 Cluster Gear (12T/33T) - U.S. Gallo	on 4
16 100F0970 Drive Gear - Totalizer	1
17 100F0990 Worm (5T) - U.S. Gallon	1
100F1001 Worm (2T) - Liter	Opt.
18 100F0980 Totalizer Shaft	1
19 100F0930 Drive Gear (41T)	1
100F0935 Drive Gear (40T) - Liter	Opt.
20 100F1070 1/4-20 x 1 HHMS	2
21 100F0945 Cluster Gear (12T/34T) - Liter	Opt.
22 1200F6565 Washer, Brass	1



100 SERIES PUM				
ITM. NO.	PART NO.	DESCRIPTION	QTY.	
1	H058G9054	8' Hose - UL Listed	1	
2	5200F1869	Vacuum Breaker	1	
3	100F0640	Pump Body	1	
4	100F0660	Cover	1	
5	100F0801	O-Ring (-159)	1	
6	100F0701	Shaft	1	
7	100F0820	Seal Washer	1	
8	100F2062	O-Ring (-114)	1	
9	30F4660	Washer	1	
10	704F3720	3/8 Lockwasher	1	
11	704F3710	3/8-16 Hex Nut	1	
12	5200F1360	Bearing Plate	1	
13	5200F1410	1/4 x 5/8 Rivet	1	
14	5200F1440	1/4 Spring Washer	1	
15	100F1180	Locking Link	1	
16	100F0680	Rotor	1	
17	100F1170	Spring Pin	3	

P	PARTS LIST						
	ITM. NO.	PART NO.	DESCRIPTION	QTY.			
	18	100F0720	Vane Spring	3			
1	19	100F0710	Vane	3			
	20	30F4540	Crank	1			
1	21	100F1085	Wood Grip	1			
1	22	100F1086	Grip Assy (Includes items 21, 31, 34)	1			
1	23	VP1400F8822	#10-24 x 1/2 TORX PH	2			
	24	100G8800	1/4-20 x 3/4 HWHTRS	12			
	25	100F0741	Check Valve Assembly	1			
	26	100F0790	Inlet Gasket	1			
1	27	100F0760	Screen	1			
1	28	100G9283	Inlet Flange	1			
	29	5200F1790	Nozzle	1			
1	31	30F5760	5/16-18 Square Nut	1			
1	32	5200F1839	Suction Pipe	1			
1	34	100F1090	5/16-18 x 4 RHMS	1			
1	35	5200F1619	Discharge Spout Assembly	Opt.			
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**For more information go to www.fillrite.com



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