

INSTALLATION INSTRUCTIONS

FFV Sure-Fill® with Top-Off for Dispensers with 7-3/4" To 9-3/4" Cup Clearance

PARTS LIST

Refer to Page 2 for illustration of items listed below. See Page 5 for breakdown of parts for Item 1.



WARNING: Check 24VAC transformer and valve wiring for shorts to valve mounting plate or cabinet. Remove shorts before installing valve. Shorts of either power supply lead to cabinet or valve plate will cause damage to the Sure-Fill® valve module.

Part No. 83377-004Q with Mounting Block (CCUSA P/N Not Applicable)

Parts itemized below are included with this valve.

Item	Description	IMI Wilshire P/N	CCUSA P/N
1	FFV Valve Asy with Sure-Fill® Electronic Control	48271-124	
2	FFV Mounting Block	48280	11828
3	Front Valve Cover	82453-001	14503
4	Rear Valve Cover	82454	14504
5	Instructions	83720-005	

Part No. 83377-016Q without Mounting Block (CCUSA P/N Not Applicable)

Parts itemized below are included with this valve.

Item	Description	IMI Wilshire P/N	CCUSA P/N
1	FFV Valve Asy with Sure-Fill® Electronic Control	48271-124	
2	Front Valve Cover	82453-001	14503
3	Back Valve Cover	82454	14504
4	Instructions	83720-005	

Fill out the Manufacturer's Final Inspection Check List form and return the self-addressed mailer immediately.

Sure-Fill® is a Registered Trademark of IMI Wilshire, Inc.

FFV Sure-Fill® Valve

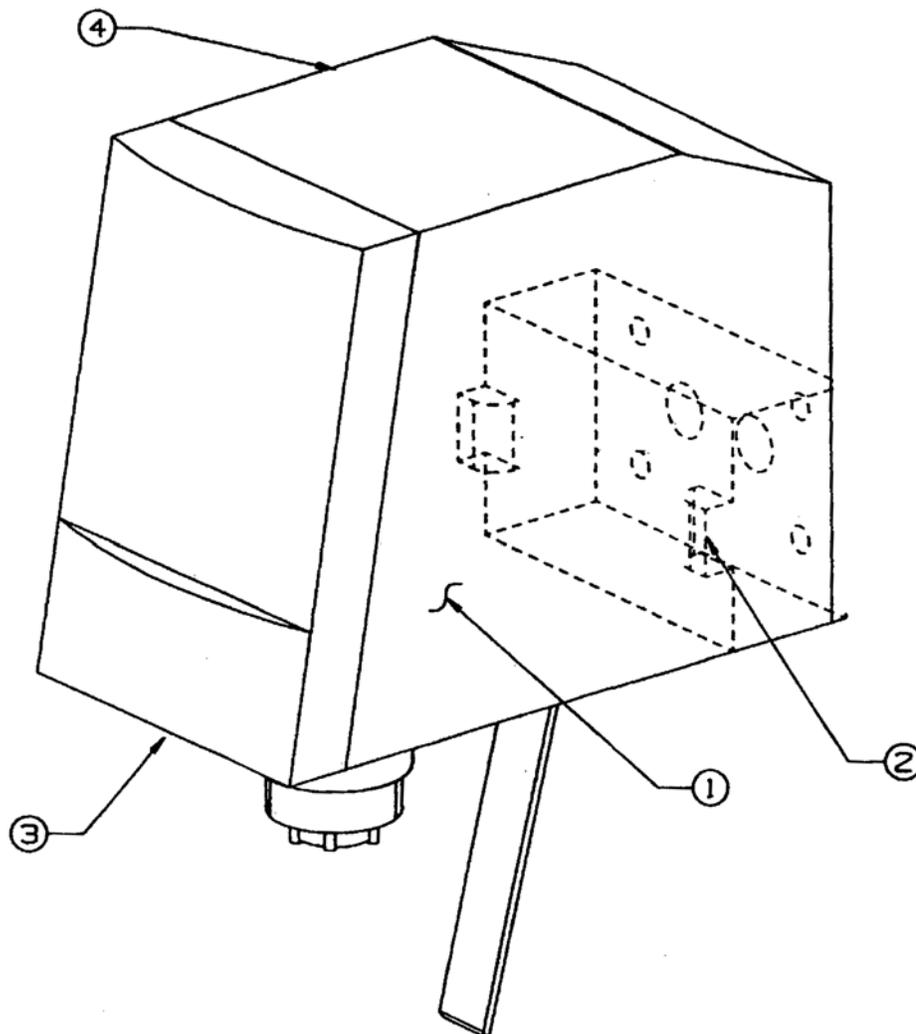


FIGURE 1

SURE-FILL® VALVE OPERATION

The IMI Wilshire Sure-Fill® Valve will automatically fill a cup with beverage. Filling of the cup is started by placing a cup against the valve lever. Once the cup has started to fill, release the cup and filling will continue until the cup is full. The valve will automatically shut off when the cup is full and the beverage foam contacts the valve lever. A slight overflow of the beverage foam (or liquid) is required to ensure proper operation.

The Sure-Fill® valve includes a beverage TOP-OFF feature which will top-off drink height in the cup automatically after the foam has settled. The Sure-Fill® valve has two TOP-OFF cycles. An adjustable time delay is provided to set the delay time for the foam to settle before the start of either TOP-OFF cycle. This time delay is adjusted by a potentiometer located at the front of the electronics module (see Step 12 on Page 4).

IMI Wilshire recommends the use of an inclined cup grid to enhance Sure-Fill® operation and to minimize wetting the outside of the cup.

The recommended kit to provide proper incline of the cup rest is:

	IMI Wilshire P/N	CCUSA P/N
Sabre Style 18" Tower:		
Angle Cup Rest	82900-120	
Sabre Style & Stainless Steel 23" Tower:		
Angle Cup Rest	84934	
225 Stainless Steel Tower:		
Concord Angle Cup Rest	64885-002	
Revere Angle Cup Rest	64876-004	
Omega:		
Angle Cup Rest	82969-300	
D80 Counter Top:		
3/8" Splash Plate, Required	82809-001	
Angle Cup Rest	84111-001	
For All Other Dispensers:		
Shim Kit	83921-002	

Plastic Sabre Style Towers:

The standard cup rest is removed and replaced with a tilted cup rest to provide the proper cup rest tilt.

Stainless Steel and Sabre Style Towers:

The 9-3/4" tower will have a replacement cup rest that will provide the proper cup-rest tilt. The 7-3/4" 225 tower will require the splash plate to be replaced with an extended splash plate to provide proper cup rest tilt.

All other dispensers use a shim kit if there is no known cup rest kit. The shim kit is available for tilting the cup rest. The shims attach to the bottom of the cup rest which will incline the cup rest up at the front edge. The cup rest, when it is installed on the dispenser, is then inclined down in the direction of the splash plate.

INSTALLATION OF SURE-FILL® VALVE

1. Shut off syrup and soda water at valve mounting block.
2. Purge dispensing valve of syrup and soda water.
3. Remove the FFV valve that is to be converted to a Sure-Fill® Valve.
4. Check the o-rings and replace if necessary.
5. Lubricate o-rings on mounting block and install FFV Sure-Fill® valve.
6. Check the grey wire coming from the lever to be sure it has a slight loop above the lever. Check that this wire is not restrained or pinched. If this wire is pulled tight, it will not allow the lever to move freely and the valve will not function properly.
7. Connect valve to 24 VAC power.



CAUTION - Verify that valve power wires are not restricting lever operation when valve is placed on the mounting block.

8. Turn syrup and soda water back on at the valve mounting block. When the shutoff valves are turned back on, check and repair any leaks.
9. The FFV Sure-Fill® performs more efficiently if the cup rest is inclined down towards the splash plate. The recommended pitch is between 12 to 14 degrees to ensure that the foam (or liquid) contacts the lever when the cup is full.

10. Test valve operation by pressing the cup against the lever and releasing cup. When foam or liquid touches the lever, the valve will shut off.

NOTE: When using the FFV Sure-Fill® Valve, it is recommended to use a minimum of 1/3 of a cup of ice and wait approximately one second before releasing cup. This will ensure enough weight is in the cup to hold the lever back and allow the valve to continue to operate.

11. Adjust soda and syrup valve flow rates and ratio per the FFV Brixing Instructions.

Top-Off Feature Adjustment

12. The two Top-Off cycles can be eliminated by turning the white screw on the potentiometer counterclockwise to the minimum position. Use a small screwdriver, similar to Item 12, shown on Assembly Diagram, Page 6, to adjust the potentiometer.
13. The cycle time between Top-Off's can be increased by turning this same screw on the potentiometer clockwise. Turn the screw in small increments, and check to determine which setting provides the desired height of drink in cup.

TROUBLE SHOOTING INFORMATION

1. If valve does not operate, check the following, referencing Sure-Fill® wiring diagram:
 - No 24 VAC power supply.
 - Loose wires on any connector or valve assembly, referencing Sure-Fill® wiring diagram.
 - Lever in contact with splash plate.
 - Ice in contact with lever on cup rest.
 - Inoperative cup lever switch.
 - Grey wire location.
 - Power connectors located near lever causing short.
 - Coating on switch must cover all exposed electrical connections.
 - Valve Cover Mounting Bracket (Item 18) must not touch Valve Retainer Bracket (Item 16).
2. Make sure lever is not hitting splash plate during operation. If lever is in contact with the splash plate, the valve will turn off.
3. If the valve shuts off immediately after starting to dispense a drink, the lever may be getting wet when the valve is activated. Make sure the star nozzle is installed and the nozzle does not leak. Also, check for leaks at the mounting block.
4. If valve lever does not allow valve switch to turn off, verify that the lever screw (Item 7) is tight. Check that all lever parts are correctly assembled to the valve as shown on Page 6. Check that the tower is not leaning and is approximately perpendicular with respect to the counter. If the valve switch is closed, then the valve switch should be checked using the diagram on Page 8 to ensure it is installed properly. If switch is closed when the valve body is level and the proper lever assembly has been verified, the switch assembly is defective and must be replaced.
5. If valve does not shut off and drink spills out of cup, check to ensure cup rest is inclined towards the splash plate for proper contact with the lever. The cup grid must be inclined at 12 to 14 degrees.
6. If valve does not shut off after the foam hits the lever, check the following:
 - Check for good electrical contact and that the grey wire is not open between the wire and the lever (see attached wiring diagram).
 - Check that the grey wire on the lever has enough slack to allow the lever to return to the off position.
 - Check that the tower is level and not leaning back. If the tower is not level, it allows increased pressure on the switch by the lever, not allowing the lever to return to the normal off position. Dispenser must be in a level upright position for proper operation of the valve.
 - Check Item 4 above for additional information.



- If the valve continues to run after the above checks are made, then the electronic module may be defective, and the device must be replaced.
7. Additional information and service may be obtained by calling the following:
- A. The Coca-Cola Company 1-800-241-COKE (2693)
 - B. IMI Wilshire, Inc. 1-800-238-3600
Ask for Parts and Service Coordinator
Monday through Friday 8:00 a.m. - 5:30 p.m. EST

REPLACEMENT PARTS LIST FOR FFV SURE-FILL® WITH TOP-OFF FEATURE

Item	Description	IMI Wilshire P/N	CCUSA P/N
1	Sure-Fill® Lever	83903-005	
2	Screw, 6-32 x 3/16	60003-095	
3	Green, Valve Lever Spring	23746-001	
3A	Plastic Spacer, Stabilizer	84997	
4	O-Ring	31525-020	11498
5	Washer, Nylon	27176-001	11210
6	Nylon Washer	60068-052	
7	Nylon Screw, 10-32 x 1/2	60068-051	
8	Switch (Part of Item 10)	18054-002	
9	Electronic Module , Only (Part of Item 10)	60068-127	
10	Electronic Module Harness & Lever Assy. (Includes Items 1,2,8,9)	82716-008	
11	Star Nozzle	48265-103	11588
12	Screwdriver (Used to adjust potentiometer. Not supplied with kit.)	60018-043	
13	Screw, 6-32 X 3/16	60003-095	
14	Nut, 6-32	60004-035	
18	Valve Cover Mounting Brkt	82463-101	
The following parts are listed on the diagram, Page 6, for identification purposes only. They are not supplied as part of the kit:			
15	Switch Hold Down Screw		
16	Valve Retaining Bracket C-Frame		

NOTE: The wiring harness (Item 10) is assembled at the factory. The attached switch has a conformal coating to prevent moisture from affecting performance. If the harness or the switch becomes defective, replacement parts must be conformal coated or sealed with light coat of silicone sealant at any exposed electrical connection, such as the screw on the lever or the quick-connects on the switch. The switch used on this assembly is a special sealed switch, IMI Wilshire P/N 18054-002, CCUSA P/N not applicable.

SURE-FILL® FFV VALVE ASSEMBLY DIAGRAM

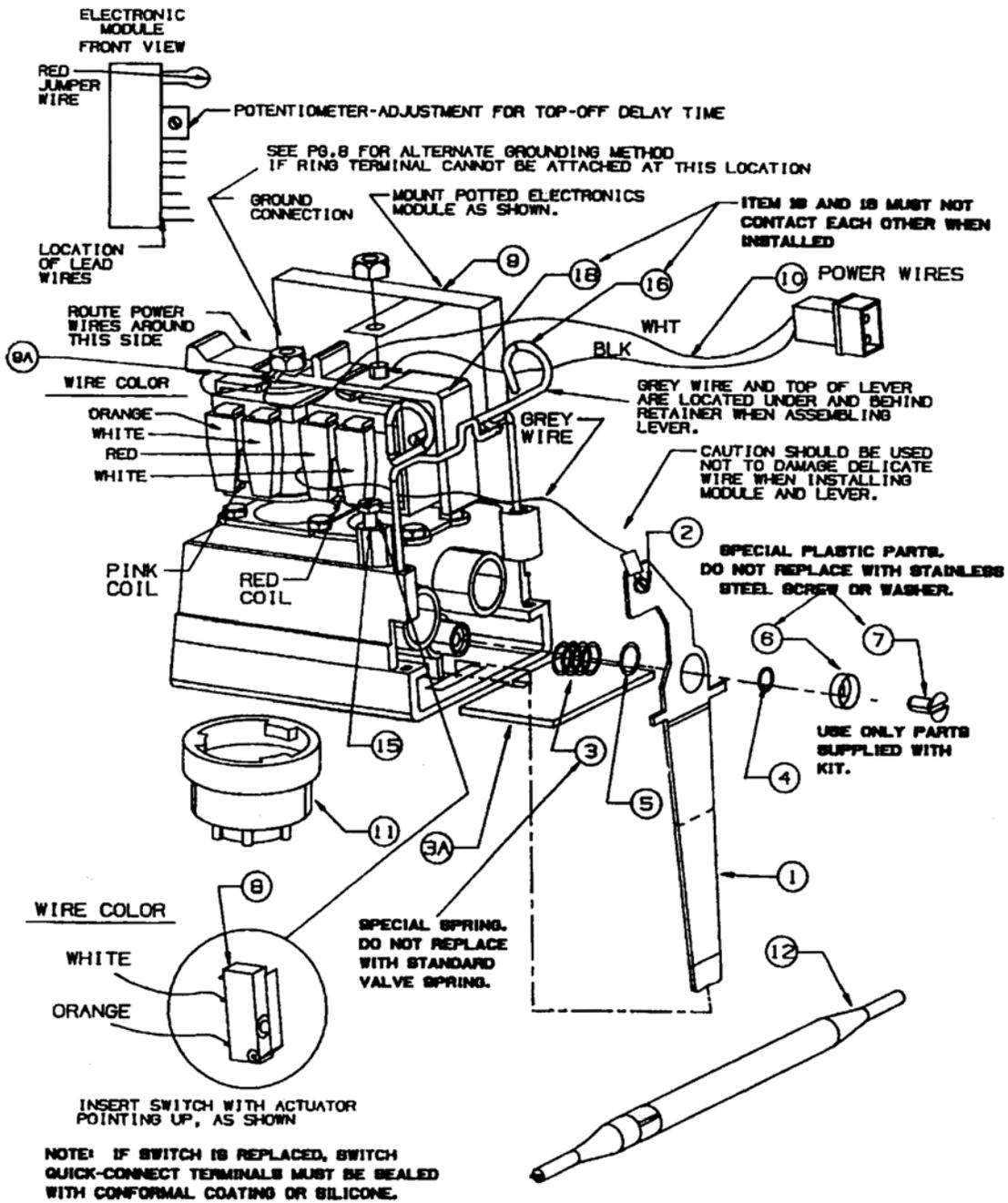


FIGURE 2

SURE-FILL® WIRING DIAGRAM WITH TOP-OFF

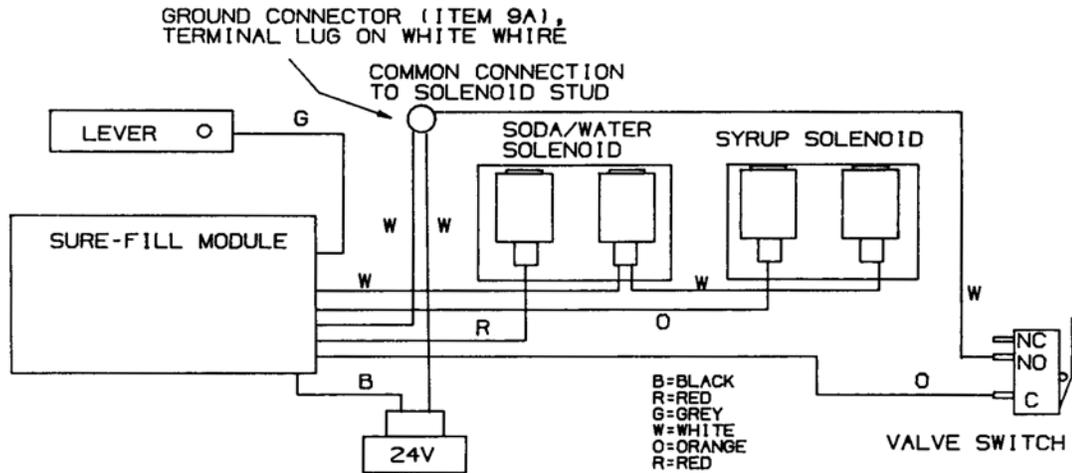


FIGURE 3

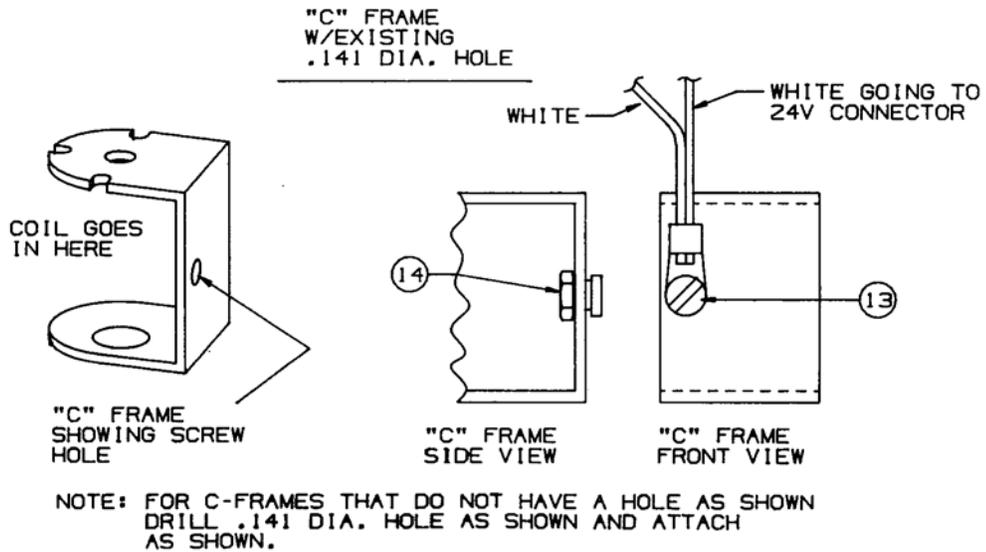


FIGURE 4 Alternate Method of Grounding (see page 4, item #10)