

INSTALLATION INSTRUCTIONS

FFV Sure-Fill Module Replacement

SAFETY INSTRUCTIONS

**WARNING:**

Before starting installation, read and understand all safety label and warnings on the machine. Also review and understand all safety instructions in the owners, installation and service manuals.

Failure to comply could result in serious injury, death or damage to the equipment.

QUALIFIED SERVICE PERSONNEL

**WARNING:**

Only trained and certified electrical, plumbing and refrigeration technicians should service this unit.

All wiring and plumbing must conform to national and local codes. Failure to comply could result in serious injury, death or equipment damage.

SAFETY PRECAUTIONS

This unit has been specifically designed to provide protection against personal injury. To ensure continued protection observe the following:

**WARNING:**

Disconnect power to the unit before servicing. Follow all lock out/tag out procedures established by the user. Verify all power is off to the unit before performing any work.

Failure to comply could result in serious injury, death or damage to the equipment.

**CAUTION:**

Always be sure to keep area around the unit clean and free of clutter.

Failure to keep this area clean may result in injury or equipment damage.

! IMPORTANT:

Before replacing the sure-fill control module, check the following:

NOTE: If any of the following problems are found and repaired, retest the valve before replacing the module.

1. Measure the input voltage to the valve. It must be between 21 to 27 VAC.
2. Verify that no 24 VAC supply wires are shorted to the dispenser using the following procedure:
 - A. Shutoff 24 VAC power to valves.
 - B. Remove the valve input connector from the dispenser connector. Attach one lead of the ohmmeter to a metal surface on the dispenser and touch the other lead to the black wire and then to the white wire of the dispenser connector. If zero is indicated on the ohmmeter, it is an indication that a 24 VAC power lead is shorted to the dispenser valve mounting plate or cabinet. See diagram below.

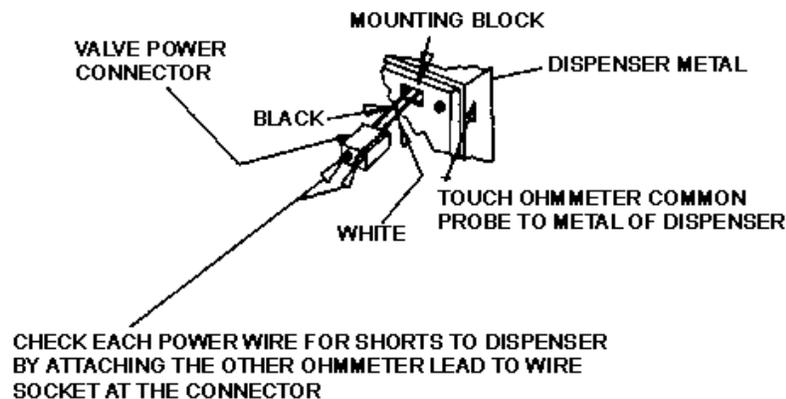


Figure 1. 24 VAC Check Points for Wire Shorts

NOTE: This short must be eliminated or it will cause the sure-fill module to malfunction and eventually fail.

- C. Turn power on after short is eliminated.
3. Check for obvious damage (i.e., broken or nicked wires or other visible damage) that might cause the valve to malfunction.
4. Check for syrup or water leaks on the valve or beverage overflowing around valve nozzle during valve operation. All leaks must be repaired or they may cause the Sure-Fill Module to malfunction.
5. If the valve will not turn on or shut off, check the following:

- A. Check that the lever is attached to the mounting bosses on the valve and verify that the bosses are not broken.

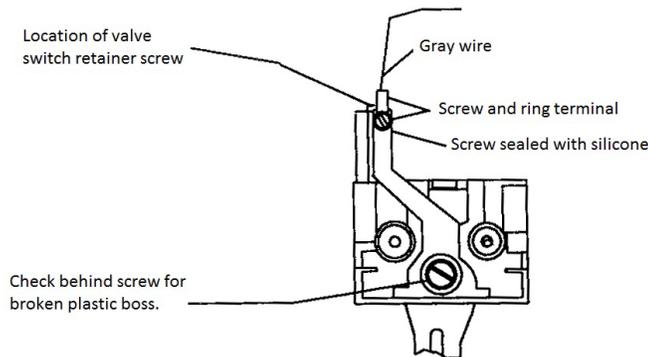


Figure 2.

- B. Check that the lever is operating the lever switch properly and that it is not preventing the lever switch from either opening or closing.
- C. The screw holding the ring terminal on the gray wire to the lever must be tight and the gray wire must not be pinched or broken.
- D. If the control will not shut off, take the lead of a voltmeter and touch one end to the lever and the other end to the ring terminal at the front of the valve. If the control shuts off, it is possible that the problem is the conductive flow control material may be missing or the insert in the water flow control of the valve may be defective.

NOTE: Do not cut any wires on the module or the warranty will be voided. If it is necessary to bypass the module to make valve operational, replace the module harness with a standard valve harness wiring and switch.

If none of the above problems are identified, proceed to Sure-Fill Module Replacement.