

WARNING: UNPLUG POWER TO THE DISPENSER BEFORE PERFORMING LFCV CONVERSION



ELECTRICAL WARNING ALWAYS DISCONNECT POWER TO THE DISPENSER BEFORE ATTEMPTING ANY INTERNAL MAINTENANCE. THE RESETTABLE BREAKER SWITCH SHOULD NOT BE USED AS A SUBSTITUTE FOR UNPLUGGING THE DISPENSER FROM THE POWER SOURCE TO SERVICE THE UNIT. NOTE: LIFT THE HEAD BOX COVER DOES NOT TURN OFF POWER TO THE DISPENSER. IT MUST BE PHYSICALLY UNPLUGGED.

ONLY QUALIFIED PERSONNEL SHOULD SERVICE THE INTERNAL COMPONENTS OF THE DISPENSER.

AVOID ANY CONTACT WITH WATER WHEN PLUGGING IN THE DISPENSER. THE DISPENSER MUST BE PROPERLY ELECTRICALLY GROUNDED TO AVOID SERIOUS INJURY OR FATAL ELECTRICAL SHOCK. THE POWER CORD HAS A THREE-PRONG GROUNDED PLUG. IF A THREE-HOLE GROUNDED ELECTRICAL OUTLET IS NOT AVAILABLE, USE AN APPROVED METHOD TO GROUND THE UNIT. FOLLOW ALL LOCAL ELECTRICAL CODES WHEN MAKING CONNECTIONS. EACH DISPENSER MUST HAVE A SEPARATE ELECTRICAL CIRCUIT. DO NOT USE EXTENSION CORDS. DO NOT CONNECT MULTIPLE ELECTRICAL DEVICES ON THE SAME OUTLET.

PURPOSE:

To convert the **LVV** modules to **LFCV** modules on the Bridge Tower unit.

PARTS/TOOLS LIST:

- Adaptor Harness
- Extra Tubing (Provided)
- Tube Cutter
- Extra Clamps (Provided)
- LFCV's and Fittings (Provided)
- SD Card (Provided)

1. INSTALLING LFCV

- Unplug the power to the dispenser.
- Remove the Drip Tray and Splash Plate.
- Remove the front and side panels from the unit. Refer to **Bridge Tower Installation Review**, provided with the unit, for pictures and instructions on how to remove the panels from the unit.
- Unplug the ribbon LED's from the control board and remove the dynamic ribbons by removing the four bolts holding them to the side of the unit.

NOTE: The LFCV's will be provided with the fitting installed and adaptor harness connected. Replace the Volumetric valve modules with the black LFCV syrup modules provided. It is recommended to replace one valve at a time so that tubes and wires do not get switched.

- Choose a brand **LVV** module that will be converted to a **LFCV** and then turn off the backblock associated with the chosen valve.
- Once backblock is switched to the OFF position, lift the retaining pin off of the chosen valve.
- Remove the valve by pulling out.
- Cut the line using the Tube Cutter, preferably about 1 inch away from the valve fitting.
- Note the color of the wire where the valve connects then disconnect the removed **LVV** from the Tower wire harness and set aside.
- Attach the cut tubing onto the fitting.
- Attach **LFCV** onto empty backblock and use retaining pin to secure to the unit.
- Turn the backblock back to the ON position.
- Once the **LFCV** is secure and the backblock is turned on, attach the provided adaptor harness to the valve wire harness then to the unit wire harness associated with that valve.

NOTE: The unit wire harness will be identified by the double color wires connected to it. Example: double blue, double brown, double purple etc.

- Repeat Steps E-M for the remaining Volumetric Valves.

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2. WATER MANIFOLD UPDATE

NOTE: Refer to Figure 1 below for water manifold shown outside of the unit.

- A. Replace section labeled in **YELLOW** with a single elbow fitting (PN 05-1385).
- B. If necessary, extra tubing and clamps have been provided to replace the section labeled in **RED**.

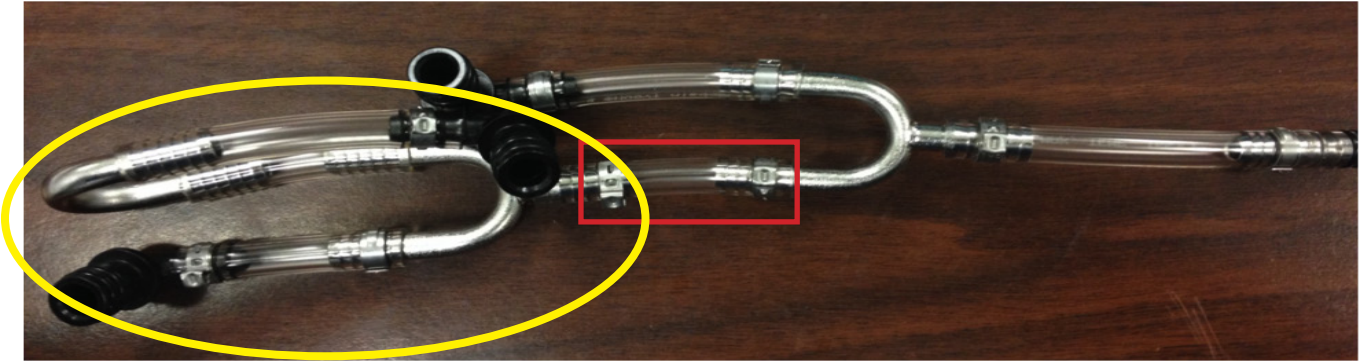


FIGURE 1: WATER MANIFOLD

NOTE: The modified water manifold will connect to both the still and carbonated water **LFCV's** after the installation in Section 3.

3. REPLACING THE FLOW METERS

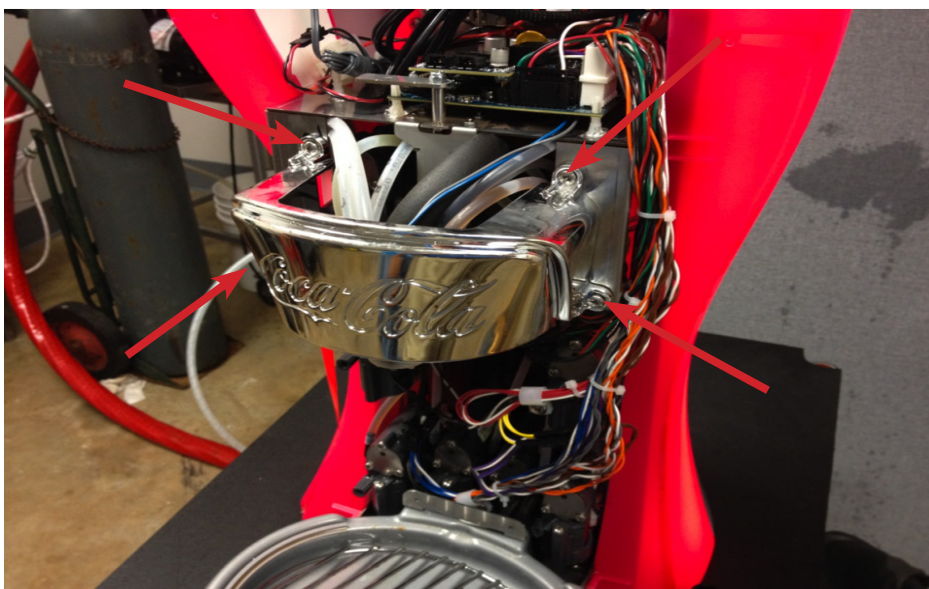
- A. Shut off back block to one of the existing flow meter valves.
- B. Disconnect the wire harnesses.
- C. Lift the pin and pull the flow meter valve forward to remove.
- D. Install the **GREY** water **LFCV** in place of the removed flow meter valve in the previous step.
- E. Connect the wire harness to the two pin connector of the newly installed **LFCV**.

NOTE: The four pin connector will not be used.

- F. Once the wire harness is connected, connect one end of the water manifold to the new **LFCV** and open the back block.
- G. Repeat Steps A - F for the second flow meter valve.

4. REMOVING THE FLOW WASHER

- A. In order to gain access to the nozzle, remove the nozzle housing from the unit by removing the four (4) screws holding the housing to the tower (See Figure 2).



**FIGURE 2:
REMOVE NOZZLE HOUSING**

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4. REMOVING THE FLOW WASHER (CONTINUED)

- B. Remove the two (2) screws holding the nozzle bracket to the housing and separate the nozzle assembly from the housing (See Figure 3).
- C. Remove the three (3) screws holding the nozzle to the nozzle bracket and gently pull the nozzle away from the bracket and tube fittings (See Figure 4).

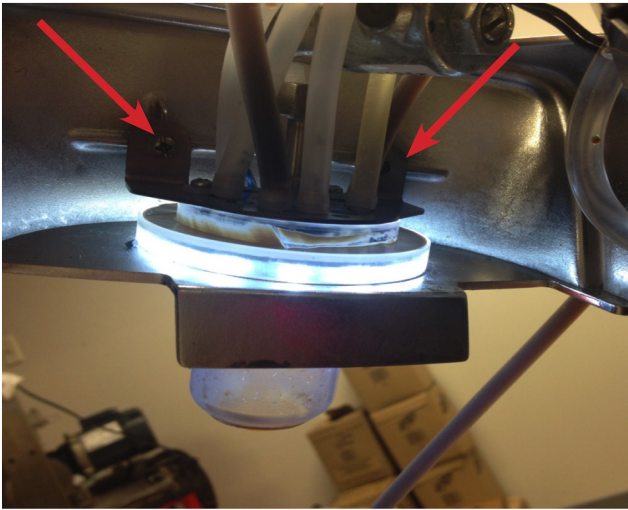


FIGURE 3: REMOVAL OF NOZZLE BRACKET

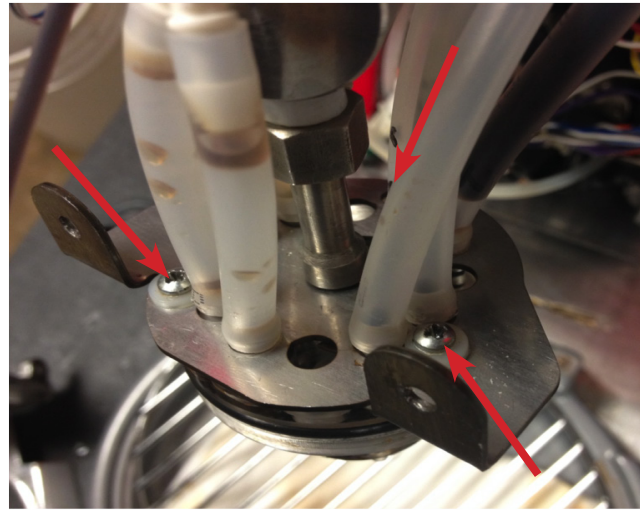


FIGURE 4: REMOVAL OF NOZZLE

- D. Remove the flow washer from the center hole of the nozzle (water inlet) (See Figure 5).



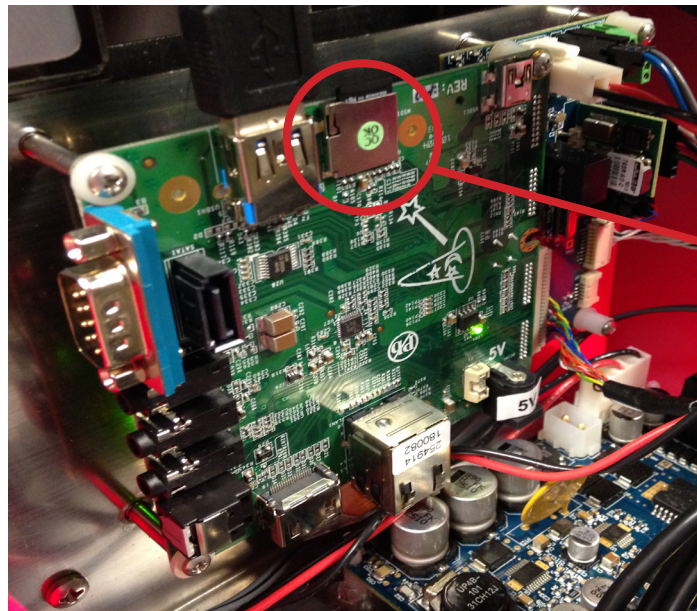
**FIGURE 5:
REMOVE FLOW WASHER**

- E. Reassemble the nozzle and reinstall to the unit.

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5. UPDATING CONFIGURATION SCREEN

- A. Lift the Head Box Cover up until it locks into place to reveal the control board.
- B. Locate the upper SD card slot (See Figure 6).



UPPER SD
CARD SLOT

FIGURE 6:
CONTROL BOARD

- C. Remove the upper SD card and replace with new SD card provided.
- D. Close the Head Box Cover and re-install the Splash Plate, Drip Tray, and Front and Side Panels. Plug in the dispenser to power on.
- E. Once the dispenser is powered on, the user should first configure the brands. Refer to dispenser Operation Manual provided (PN 28-0941), Section 3.1.
- F. After the brands have been configured, calibrate the newly installed **LFCV's** before use. Refer to dispenser Operation Manual (PN 28-0941), Section 2.6 - 2.7, for instructions on how to calibrate the **LFCV's**.

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⚠ Please refer to the Lancer web site (www.lancercorp.com) for information relating to Lancer Operation Manuals, Instruction Sheets, Technical Bulletins, Service Bulletins, etc. ⚠