Multiplex

Manitowoc Foodservice Group

Multiplex Beverage Equipment Installation Instructions for

Heat-X Manifold for Follett UD300

P.N. 00219706

The Multiplex Heat-X Manifold is an assembly of stainless steel water and syrup tubes designed to provide maximum cooling for casual drinks and minimal temperature splits between water and syrup.

Preliminary

- Disconnect syrup supplies and flush beverage system with water.
- Shut down system and purge all water from conduit and dispenser with CO_2.
- Shut **"off"** CO_2 and bleed off system pressure.
- Disconnect and remove conduit. (Conduit to be replaced with new 16-line conduit.)

Remove existing plumbing

1. Remove top cover of UD300
2. Remove four (4) screws securing electrical control box. Lift up and lay aside (refer to Figure 1).

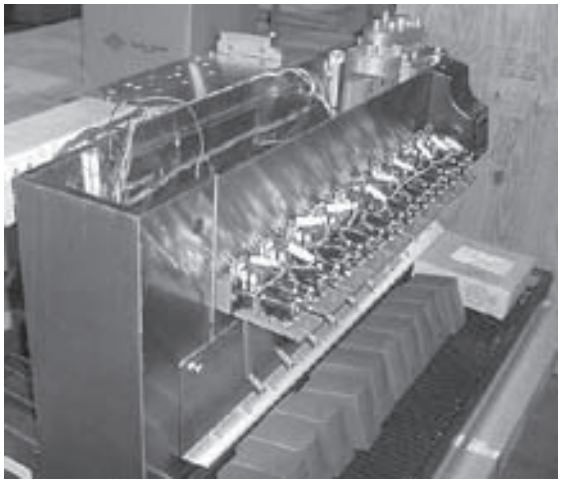

Figure 1

3. Remove all valve covers. Disconnect and remove valves.
4. Remove all twenty (20) valve blocks. Lay all valves and valve blocks in drip pans. Remove and set aside (refer to Figures 2 and 3).

Figure 2

Figure 3

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In accordance with our policy of continuous product development and improvement, this information is subject to change at any time without notice.

EI219706 Issued (JMT/KAK) 4 March, 2002

Caution: To Avoid Serious Injury

Important: *Read the following warnings before beginning an installation. Failure to do so may result in possible death or serious injury.*

DO Adhere to all National and Local Plumbing and Electrical Safety Codes.

DO Turn **"off"** incoming electrical service switches when servicing, installing, or repairing equipment.

DO Check that all flare fittings on the carbonation tank(s) are tight. This check should be performed with a wrench to ensure a quality seal.

DO Inspect pressure on Regulators before starting up equipment.

DO Protect eyes when working around refrigerants.

DO Use caution when handling metal surface edges of all equipment.

DO Handle CO_2 cylinders and gauges with care. Secure cylinders properly against abrasion.

DO Store CO_2 cylinder(s) in well ventilated areas.

DO NOT Throw or drop a CO_2 cylinder. Secure the cylinder(s) in an upright position with a chain.

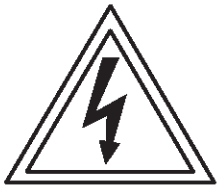
DO NOT Connect the CO_2 cylinder(s) directly to the product container. Doing so will result in an explosion causing possible death or injury. Best to connect the CO_2 cylinder(s) to a regulator(s).

DO NOT Store CO_2 cylinders in temperature above 125°F (51.7°C) near furnaces, radiator or sources of heat.

DO NOT Release CO_2 gas from old cylinder.

DO NOT Touch Refrigeration lines inside units, some may exceed temperatures of 200°F (93.3°C).

Notice: *Water pipe connections and fixtures directly connected to a potable water supply shall be sized, installed and maintained in accordance with Federal, State, and Local codes.*



WARNING: DANGER OF ELECTRICAL SHOCK
Disconnect and lock out all electrical power sources before performing service or maintenance on this machine -- except when electrical tests are being performed by qualified service personnel.

5. Remove thumbscrews and remove two front splash panels on one side to access lower valve mounting plate screws. Loosen four (4) screws that secure valve-mounting plate (refer to Figure 4).

Figure 4

6. Lift valve plates and pull forward to remove and disengage the water/syrup fittings (refer to Figure 5).

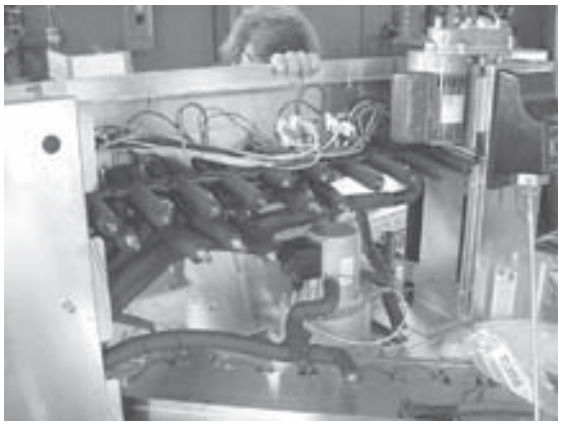


Figure 5

7. Disengage fittings from opposite valve mounting plate and pull out and remove all soda/water/syrup tube assemblies.

Install multiplex heat-x manifold

1. Slide new Heat-X manifold into position (refer to Figure 6).

Note: *Guide bracket on side of dispenser may be removed, if necessary, to unobstruct installation.*

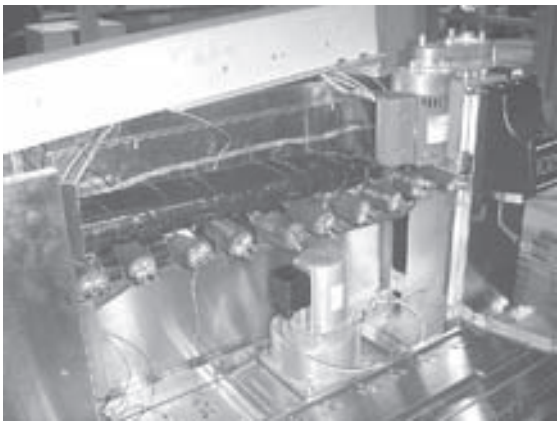


Figure 6

2. Engage O-ring fittings in keyholes of fixed valve mounting plate. Take precautions that wires through water side keyhole are above fitting and not damaged (refer to Figure 7.

Figure 7

Check for clearance under motor (refer to Figure 8).

Figure 8

***Tip:** Use a 3/16" diameter Phillips screwdriver and a 1/4" flat blade screwdriver to guide and engage O-ring fitting groove into keyslot (refer to Figure 9).*

Figure 9

3. Replace valve mounting plate that was removed in Step 6. Tighten four (4) screws.
4. Align and engage O-ring fittings in keyholes. Refer to Step 9.
5. Set electrical control box in pace and secure with four (4) screws.
6. Check O-rings for damage. Replace if necessary with spare O-rings provided.
7. Mount valve blocks, taking care to route wires through slot at rear of valve block (refer to Figure 10).
8. Attach splash panels with thumbscrews (refer to Figure 10).

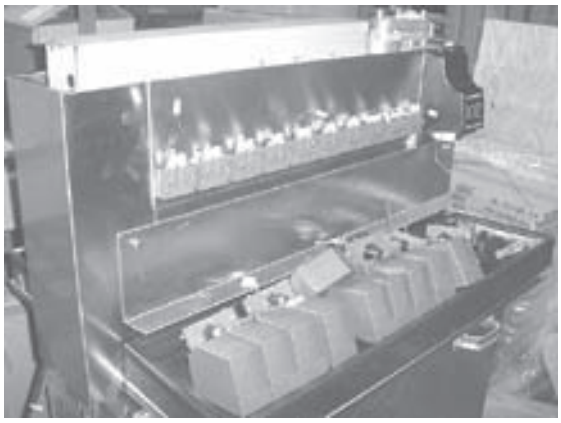


Figure 10

9. Replace valves, connect wires, open water and syrup shut-offs, and attach valve covers (refer to Figure 11).

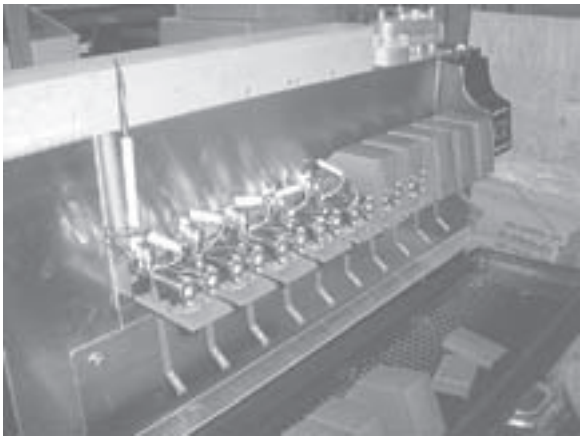
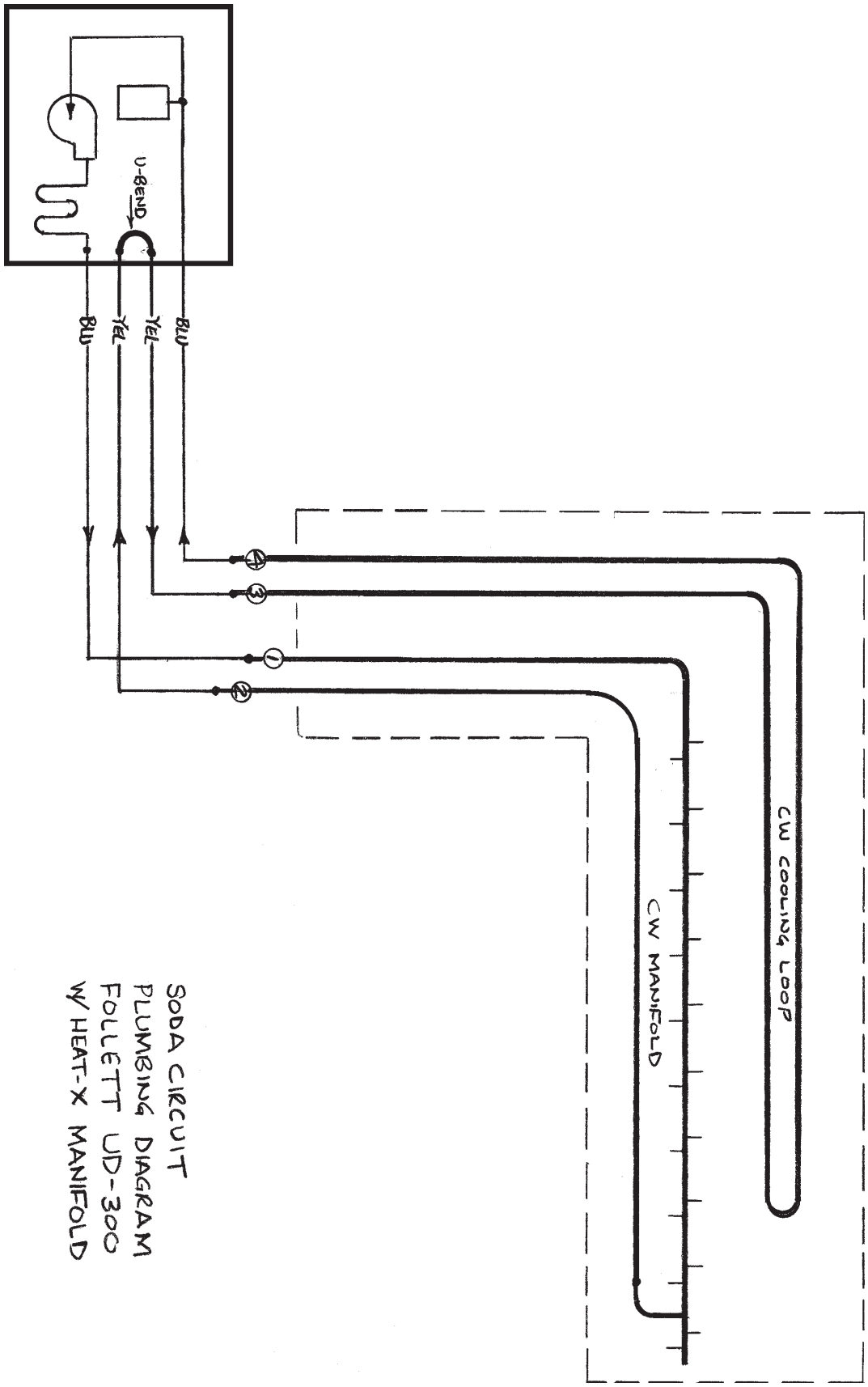


Figure 11

10. Replace dispenser top cover and drain pans.

Complete connections

1. Connect new 16-line conduit using soda circuit plumbing diagram for proper connections. Note: Use ½" U-Bend to join both yellow recirculating soda water lines at refrigeration unit end of conduit. See Soda Circuit Plumbing Diagram.
2. Restart beverage system and check for leaks. Insulate all exposed connections.

Soda Circuit Plumbing Diagram