



INSTALLATION INSTRUCTIONS

FIELD INSTALLATION INSTRUCTIONS FOR KIT P/N 629097751(4FL), ED300 QuikTrip Flavor Blast KIT installation instruction

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.

Supplied Parts List:

Table 1. Part List

Sl. No.	Part No.	Description	Quantity
1	629097751INS	MANL INSTALL QT Flavor Blast	1
2	620068596	BRKT VAL/NOZZLE MTG RH ED300 QT	1
3	620715821	NOZZLE INNER FLAVOR BLAST	1
4	620068598	PANEL FRONT NOZZLE COVER ASSY	1
5	1945	NOZZLE OUTER MID RANGE UF1 BLK	1
6	70171	SCREW MA 08-32 TRPH 12 SS	12
7	620069105	PANEL SPLASH ASY ED300 QT Z ADA	1
8	620064218	BRKT OFFSET, LOWER ED/DF 300	1
9	620313657	JUMPER 4FL SWITCH TO BOARD FLA	1
10	33401	JUMPER BEVERAGE VALVE	1
11	32870	FITG-SPLICER WIRE	8
12	50649	TIE CABLE MTG	10
13	52972	CLIP FLUSH NYLON WHITE	10
14	50904	SEALANT 732 CLEAR 30Z TUBE	AR

Flavor Blast ADA Serviceable Parts List

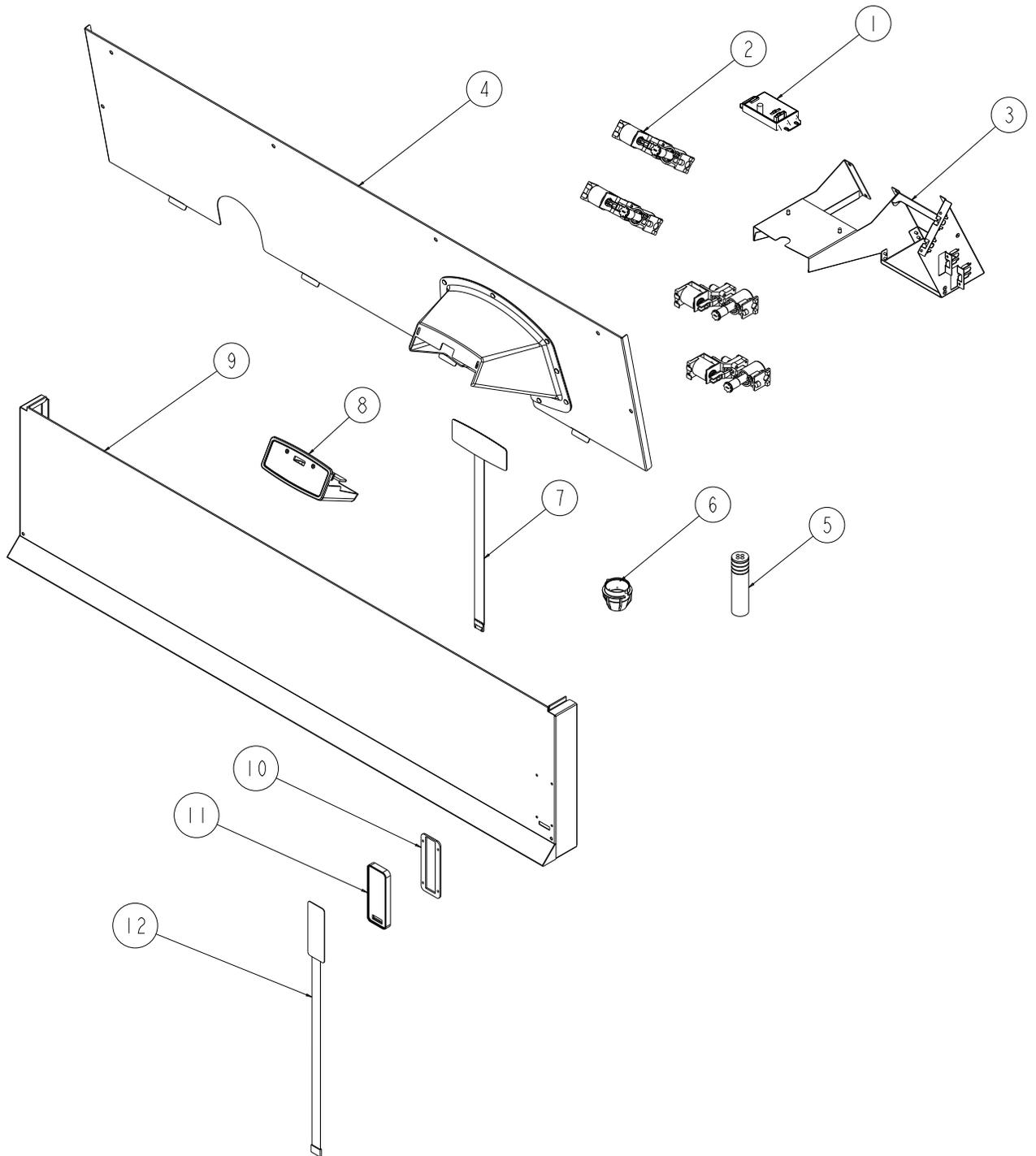


Figure 15.



Table 2: Serviceable parts list

Item No.	Part No.	Description
1	620314823-200	BOARD PC FLAVOR BLAST DUAL HEADER
2	2487	VALVE SOLENOID ASSY FCB V3+
3	620068590	BRKT NOZZLE MOUNTING ED300 QT
4	620068598	PANEL FRONT NOZZLE COVER ASSY
5	620715821	NOZZLE INNER FLAVOR BLAST
6	1945	NOZZLE OUTER MID RANGE UF1 BLK
7	620313280	SWITCH MEMBRANE 2FL/4FL BLAST GENERIC
8	620054630	HOUSING FLAVOR BLAST NEW SILVER
9	620069079	SPLASH PANEL ED300 QT
10	620055780	GASKET FLAVOR BLAST BEZEL
11	620055776	BEZEL BONUS FLAVOR ADA FLAVORB
12	620055005-201	KEY PAD BONUS FLAVOR WITH BOTTOM RIBBON
*	50299	TUBG BEV.265ID X.465OD 500'
*	770000119	TUBE SYRUP CONV/FC/SLIM

* Indicates Not Shown

INSTALLATION PROCEDURE

NOTE: During installation create Harness drip loops to allow moisture to wick away from connections.

Table 3. Installation Procedure

Step	Action	Figure
1	Disconnect power from the unit.	
2	Remove the drip tray by sliding it forward off the mounting brackets.	
3	Loosen the fasteners on the inclined front panel and carefully take it out.	 <p data-bbox="1143 915 1243 947">Figure 1.</p>
4	Loosen the fasteners of the top panel and detach it from the unit.	 <p data-bbox="854 1707 954 1738">Figure 2.</p>

Table 3. Installation Procedure

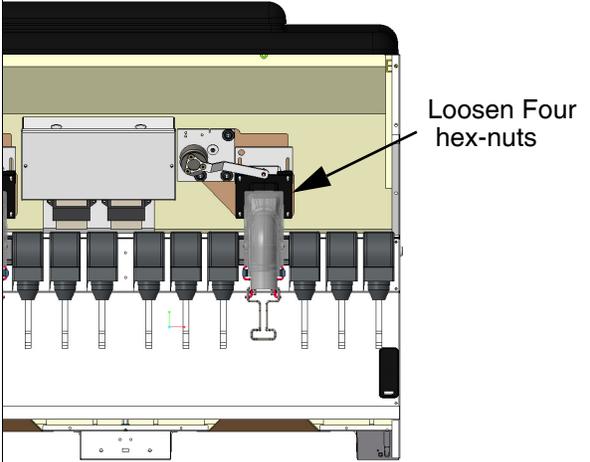
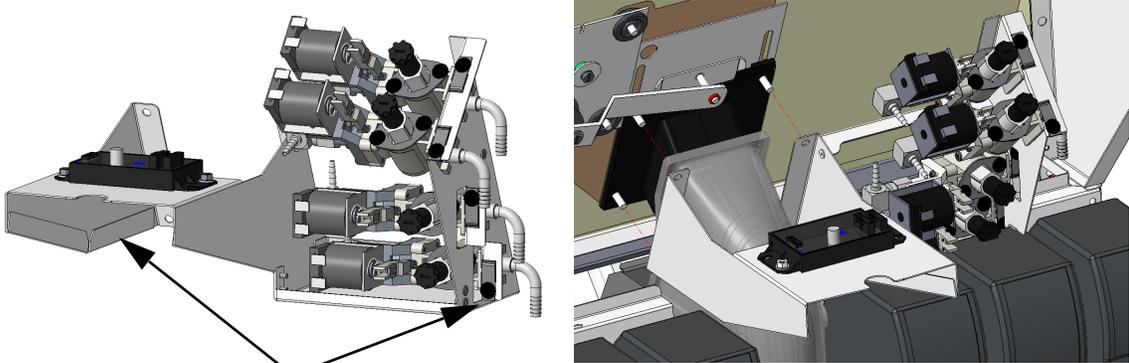
<p>5</p>	<p>Unscrew the two mounting screws and remove the splash panel.</p>  <p style="text-align: center;">Figure 3.</p>
<p>6</p>	<p>Loosen the hex-nuts provided for right side ICE-Chute mounting and take them out from corresponding bolts.</p>  <p style="text-align: center;">Figure 4.</p>
<p>7</p>	<p>Hold the assembly P/N 620068596 at the extreme left and right side flanges; align the mounting holes provided on the assembly P/N 620068596 with the Ice-Chute mounting bolts and push the assembly gently to sit onto those bolts.</p>  <p style="text-align: center;">Figure 5.</p>
<p>8</p>	<p>Put the fasteners on the bolts and tighten them to fix the assembly P/N 620068596.</p>

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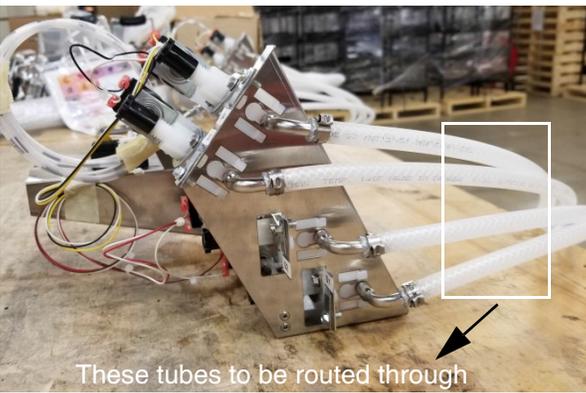
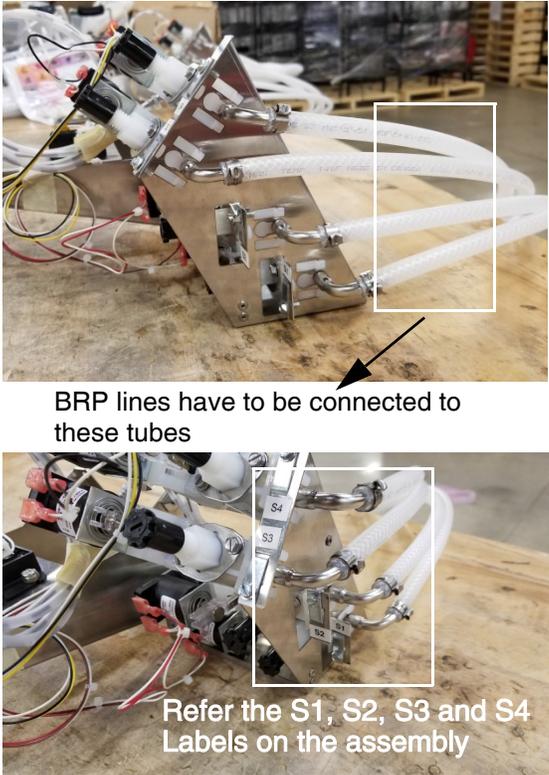
<p>9</p>	<p>Beverage tubing (1/4 I.D.) on assembly P/N 620068596 should be routed from back of valve mounting panel to center area where soda valves' connections to cold-plate are located.</p>	 <p>These tubes to be routed through the backside of the valve mounting panel</p> <p>Figure 6.</p>
<p>10</p>	<p>Set-up syrup flavors in Back-Room Package area as shown in BRP set-up.</p>	
<p>11</p>	<p>Once Back-Room Package items have been installed and tubing from BRP has been routed to dispenser, connections to dispenser can proceed.</p>	
<p>12</p>	<p>Make connections from 'ambient' Flavor-Blast™ syrup lines to valve solenoid lines at front of machine (refer Step 9). Make note of which flavors are 1, 2, 3, and 4.</p>	 <p>BRP lines have to be connected to these tubes</p> <p>Refer the S1, S2, S3 and S4 Labels on the assembly</p> <p>Figure 7.</p>

Table 3. Installation Procedure

<p>13</p>	<p>Assemble the offset bracket P/N 620064218 to the unit with the help of 2 fasteners P/N 70171.</p>	<p>P/N 620064218</p> <p>P/N 70171</p> <p>Figure 8.</p>
<p>14</p>	<p>Before installing new QuikTrip ADA Z-style splash panel P/N 620069105 on the unit, make sure that the jumper wire P/N-620313657 is routed through the back side of valve mounting bracket to the Ice Chute and E-Box mounting zone.</p>	<p>P/N 620313657 to be connected here</p> <p>Figure 9.</p>
<p>15</p>	<p>Fix the Splash Panel assembly P/N 620069105 to the unit using fasteners P/N 70171 (2 Qty).</p>	<p>P/N 70171</p> <p>P/N 620069105</p> <p>Figure 10.</p>

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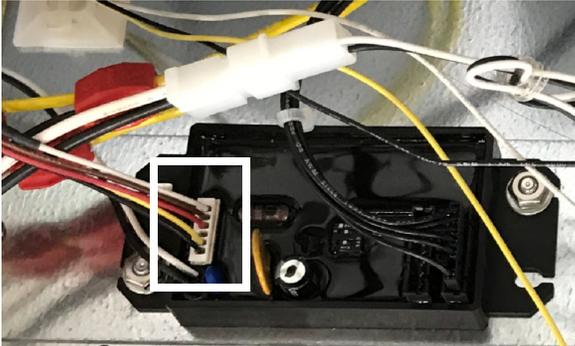
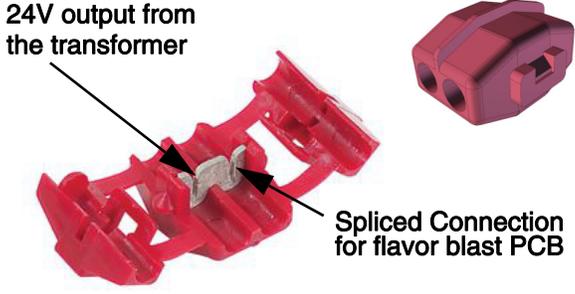
<p>16</p>	<p>Connect the other end of P/N 620313657 coming from the ADA keypad on splash panel to the PCB mounted on the solenoid valve assembly P/N 620068596.</p>	 <p>Figure 11.</p>
<p>17</p>	<p>Connect the solenoid valve harness terminals to the PCB as shown in Figure 12.</p>	 <p>Figure 12.</p>
<p>18</p>	<p>Use P/N 32870 to splice the 24V output wires of the right side transformer to power up the PCB.</p> <p>Refer Figure 26.</p> <p>Note: Each output wire of transformer should be spliced individually with fitting wire splicer P/N 32870</p>	 <p>Figure 13.</p>

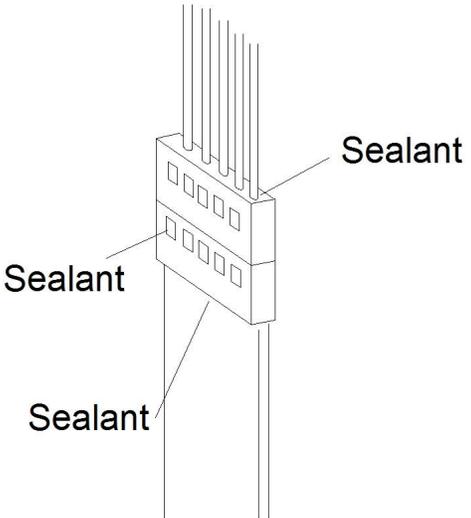
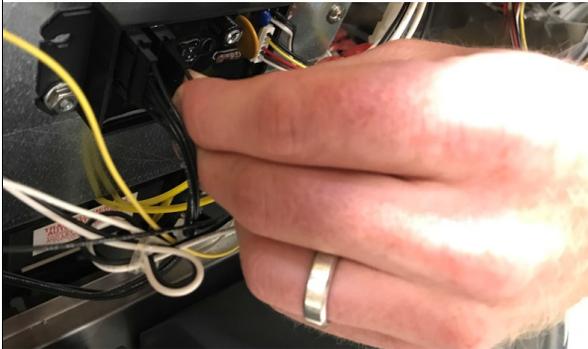
Table 3. Installation Procedure

<p>19</p>	<p>Insert the flavor-blast nozzle P/N 620715821 into the slot provided for mounting in assembly P/N 620068596 and insert the 1/8" ID tubes coming out from the solenoid valves, into the flavor-blast nozzles as shown in Figure 14.</p> <p>NOTE: Topmost slot on the P/N 620715821, To be used for mounting purpose</p>	<p>These tubes to be inserted into the flavor-blast nozzle</p> <p>P/N 620715821</p> <p>Figure 14.</p>
<p>20</p>	<p>Attach the top panel to the unit and tighten the fasteners.</p>	<p>Figure 15.</p>
<p>21</p>	<p>Apply appropriate flavor decals to corresponding Flavor-Blast™ syrup hook-ups on assembly P/N 620068598.</p> <p>NOTE: The far left button corresponds to hook-up 1 and so forth.</p>	<p>1, 2, 3, 4</p> <p>Figure 16.</p>

Table 3. Installation Procedure

<p>22</p>	<p>Apply appropriate flavor decals to corresponding Flavor-Blast™ ADA syrup hook-ups on assembly P/N 620069105.</p> <p>NOTE: The top button corresponds to hook-up 1 and so forth.</p>	 <p>Figure 17.</p>
<p>23</p>	<p>Use glue tape for routing the switch membrane P/N 620313280</p>	 <p>Figure 18.</p>
<p>24</p>	<p>Connect the P/N 620313657 to the end terminal of P/N 620313280 coming from assembly P/N 620068598.</p>	 <p>Figure 19.</p>

Table 3. Installation Procedure

<p>25</p>	<p>⚠ IMPORTANT: To prevent liquid from getting in the connector apply sealant to the locations below after connector connection is made. It is recommended to use RTV 111 because it is safe for electronics. If this is not available RTV can be use, but avoid pushing sealant into the square holes on the side of the connector</p> <p>Recommended Solution: Applying RTV (Liquid Silicon) to the locations shown above would prevent liquid from entering the connection points reducing or eliminating the potential of terminal corrosion resulting in keypad failure. Sealant</p>	 <p>Figure 20.</p>
<p>26</p>	<p>Connect the other terminal of P/N 620313657 to the flavor-blast PCB as shown in Figure 21.</p>	 <p>Figure 21.</p>

STEPS TO SET-UP

Table 4. Unit Set-up

Step	Action	Figure
1	Reconnect power to dispenser and turn on primary regulator on CO ₂ tank in Back-Room Package	
2	Actuate keypad to purge syrup through beverage tubing and through inner nozzle. Initial purging can also be accomplished by removing the merchandiser with the harness still connected to control board. Manually pushing the plungers on each solenoid valve will purge the syrup through the inner nozzle. Keep the keypad housing and connections clear of drip tray area when purging in this manner.	
3	Check connections in the following areas for possible leaks: in front of unit at syrup connections, elbow fitting at flow controls, and connections at the inner nozzle.	
4	With keypad jumpers connected to control boards proceed with installation of the new merchandiser (with assembled components) onto unit. Wind up and tuck slack from jumper and keypad onto U-clips mounted to right side of each control board label. NOTE: The inner white flavor nozzle should protrude through bottom of keypad housings by 1/4-1/2" (outer nozzle to be installed last).	
5	Assemble the front panel assembly P/N 620068598 to the unit, carefully securing the flavor-blast nozzle position inside the flavor-blast bezel cover. Insert fasteners P/N 70171 (6 Qty) as shown in Figure 22. and tighten them to fix the assembly	 <p style="text-align: center;">Figure 22.</p>

Table 4. Unit Set-up

<p>6</p>	<p>Install UF-1 outer nozzle P/N 1945 to bottom of Flavor Blast™ keypad housing.</p>	<p>Figure 23.</p>
<p>7</p>	<p>Unit should now be ready for normal soda operation with Flavor Blast™ option added.</p>	

PLUMBING \ ELECTRICAL CONNECTIONS

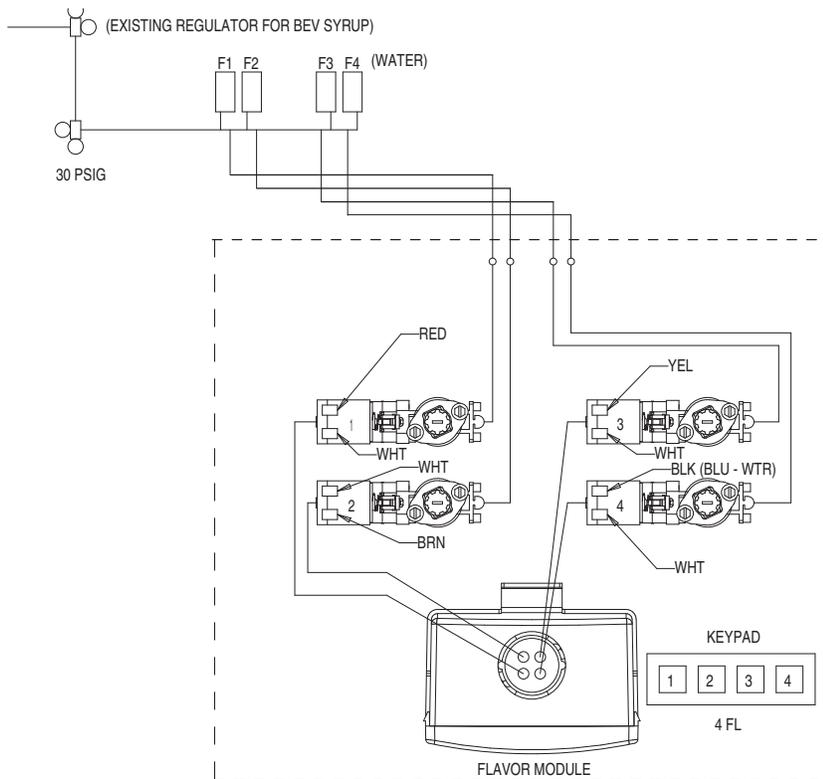


Figure 24. Plumbing \ Electrical Connections

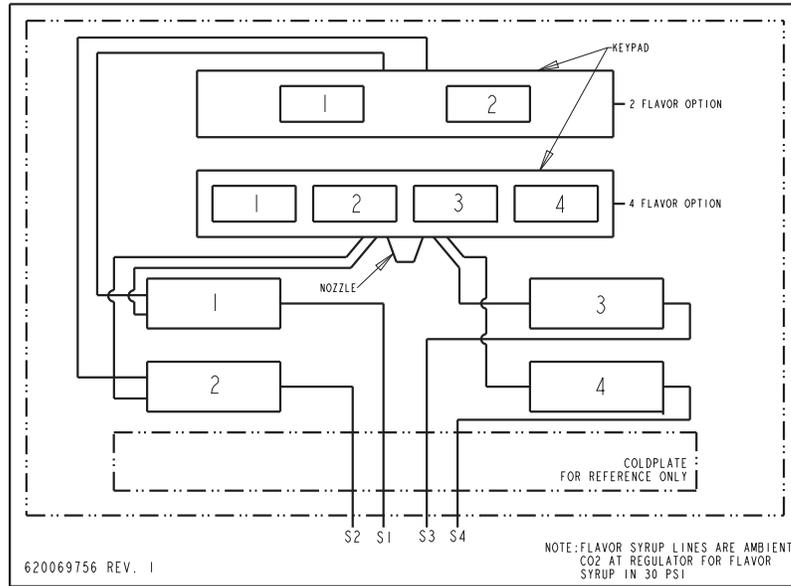


Figure 25. Plumbing Diagram

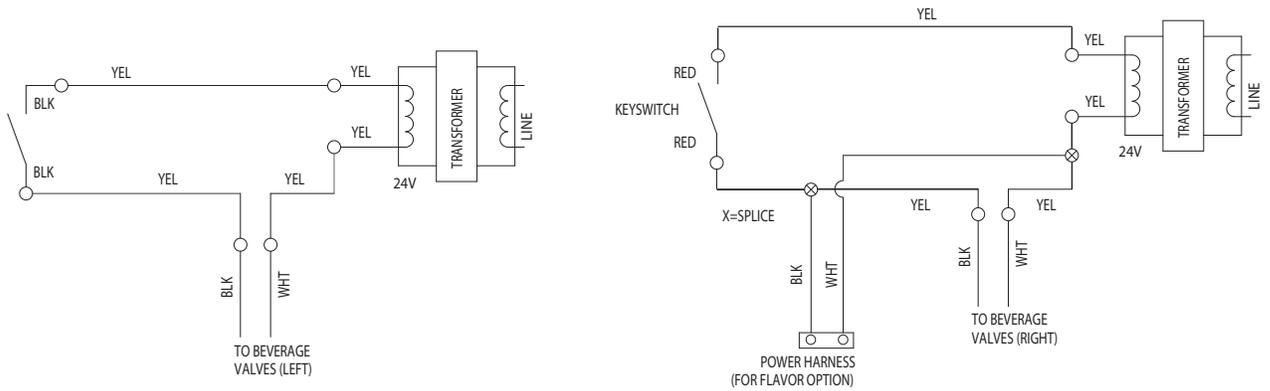


Figure 26. Wiring Schematic for 2 Transformers

TROUBLESHOOTING

Table 5. Troubleshooting

Step	Action	
1.	FLAVOR SYRUPS DO NOT DISPENSE	<ul style="list-style-type: none"> • No 24 volt power to PC board. • No CO₂ pressure. • Empty syrup tank. • Kinked tubing. • Clogged inner nozzle. • Defective PC board. • Defective harness from keypad. • Defective Flow control. • Defective solenoid harness. • Defective keypad.
2.	FLAVOR DISPENSES FOR MORE THAN 1 SEC	<ul style="list-style-type: none"> • Dip switch settings on control board incorrect. • PC board defective. • Defective flow control
3.	FLAVOR DISPENSES MORE THAN .5 Oz	<ul style="list-style-type: none"> • Dip switch settings on control board incorrect. • Flow control incorrectly set. • PC board defective. • Defective flow control.



SANITIZING PROCEDURE

NOTE: Disconnect Power Before Cleaning!

- Soap solution – Use a mixture of mild detergent and warm (100°F) potable water.
- Sanitizing solution – Use ½ ounce of household bleach in 1 gallon of potable water. Preparing the sanitizing solution to this ratio, the required solution of 200 ppm will be obtained.
- Cleaning tank – Fill clean, empty tank with a mixture of mild detergent and five (5) gallons of warm potable water (120°F).

SANITIZE FLAVOR SYRUP LINES - BIB SYSTEM

- Remove all the quick disconnects from all the BIB containers.
- Fill a suitable pail or bucket with soap solution.
- Submerge all disconnects (gas and liquid) in the soap solution and then clean them using a nylon bristle brush. Do not use a wire brush. Rinse with clean water.
- Using a plastic pail, prepare approximately five (5) gallons of sanitizing solution.
- Rinse the BIB disconnects in the sanitizing solution.
- Sanitizing fittings must be attached to each BIB disconnect. If these fittings are not available, the fittings from the empty BIB bags can be cut from the bags and used. These fittings open the disconnect so the sanitizing solution can be drawn through the disconnect.
- Place all the BIB disconnects into the pail of sanitizing solution. 'Purge' all the flavor valves until the sanitizing solution is flowing from inner nozzle. This can easily be accomplished by holding down each keypad button for at least 15 seconds. After 15 seconds the valve will go into 'purge' mode and continuously dispense for the next 60 seconds. Allow sanitizer to remain in lines for at least thirty (30) minutes.
- Remove nozzle cover (outer nozzle) from flavor module housing. Clean in a soap solution and rinse with clean water.
- Remove the sanitizing fittings from the BIB disconnects and connect the disconnects to the appropriate BIB container. Operate the flavor valves until all sanitizer has been flushed from the system and flavor syrup is flowing freely.