

# Touchless Valve Sensor Installation

## SAFETY OVERVIEW

- Read and follow **ALL SAFETY INSTRUCTIONS** in this manual and any warning/caution labels on the unit (decals, labels or laminated cards).

## 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.**

## FUNCTION:

- The Touchless Valve is a sensor switch that replaces the current valve dispense lever and activation. Once installed motion under the valve nozzle will activate the switch activating the solenoid to pour a beverage. The LED's in the control module will cascade yellow showing you are approaching the sensing range then green to indicate valve is dispensing.
- To place valve in cleaning mode, cover the sensor located behind the valve for 5 seconds. Top and bottom yellow light will flash for 60 seconds meaning valve is deactivated. Valve will return to normal operation after mode times out.

LED Light Signal Table
Cup Detection: 3 yellows
Pouring: 3 yellows and a green
Cleaning Mode: Yellow 1 & 3 (For 60 seconds) Cover the valve activation lens located behind the nozzle for 5 seconds to get into cleaning mode.



Finger shown to block sensor window and go into cleaning mode.

## CLEANING INSTRUCTION NOTE:



**CAUTION:** If ice builds up under ice chute use a scoop to move ice into a bucket. Do not use hot water. The steam will trip the sensors and could cause valves and ice chute to dispense. Hot water can also damage the plastic drip tray.

## TOOLS REQUIRED:

- Needle nose pliers

**KIT CONTENT:** 629097984 KIT UF VALVE TOUCHLESS CONV (Black Cover)  
629097985 KIT UF VALVE TOUCHLESS CONV (Gray Cover)

ITEM	QTY	P/N	DESCRIPTION
1	1	629097960	Valve kit
<b>Included are</b>			
2	1	629097982	Sensor IR Housing Assembly & Base
3	1	620072908	Valve Control Module IR Assembly
4	1	620050576	Front Cover for Coke (or)
5	1	620073160	Front Cover for Pepsi

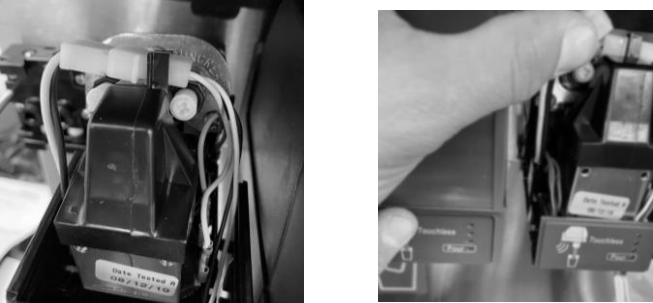
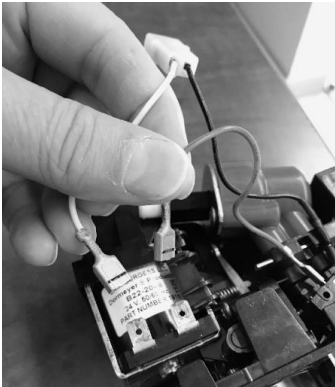



**NOTE:** For installation instructions use QR code located on inside of Front Cover

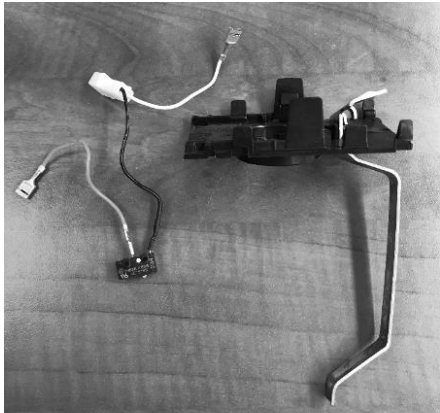
**This installation must be performed by an experienced beverage technician who understand ice drink and valve system.**


## TOUCHLESS VALVE INSTALLATION


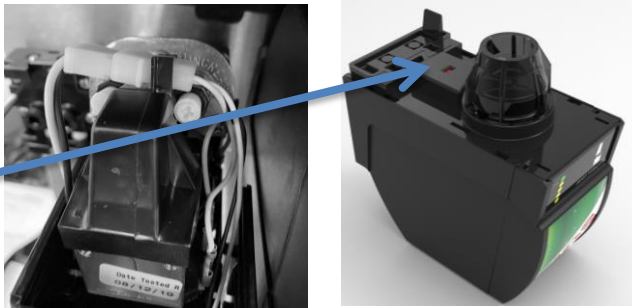
**NOTE: The procedures below will need to be performed on all valves on the machine!**

Step	Action	Figures
1	Write Down Brand Lineup and positons or take a picture. This will be used later when replacing covers and brand stickers. Also document if valve has a water lever!	
2	Turn the valve key switch to the off position disconnecting PWR to the valves. Remove the front and rear cover and disconnect the valve from the back block by pushing locking tab to left and push down on top plate of block. Disconnect from the 24 VAC power plug at the top of the valve.	
3	Remove Valve from Backblock	<p><b>Note:</b> Only replace 1 valve at a time as to not get valves mixed up. This will prevent the technician from having to purge the valves of previous syrup and brixing of valve.</p>
4	Remove the Nozzle from the valve just removed	
5	Disconnect the white and red wires connected to the solenoid. Use needle nose pliers (if needed) if connections are too hard to remove by hand. Avoid pulling on wires which can damage harnesses. These will need to be reinstalled when test is over.	

6	<p>Remove the valve base from valve by pressing outward on tabs to unclip base from valve body</p> <p><b>NOTE:</b> If valve has a water level remove screw holding lever and remove the lever from valve. Again keep parts for reassembly when test is over.</p>	
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7	<p>Set the valve base aside which consists of the lever and switch mechanism</p>	
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8	<p>To install the new Touchless valve base remove the control module with LED's and click new base in place.</p>	
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<p>9</p>	<p>Route the control wire as shown and slide the control module in the front pocket of the valve. Make sure wires are placed as to not interfere with the covers.</p>	
<p>10</p>	<p>Connect solenoid wires. Check that the sensor housing connector is connected correctly. Routing B&amp;W power wires to the outside of the sensor wires will help when replacing the valve cover.</p> <p><b>NOTE: Check to make sure no protective tape is covering sensor located at bottom of module under valve. If so remove!</b></p>	
<p>11</p>	<p>Install the new Touchless valve onto the back block onto dispenser and reassemble the nozzle back on the valve.</p>	
<p>12</p>	<p>Turn the key switch back on or plug the unit back in and validate that the 4 LED's light up for 1 second. Place a cup under and check for functionality.</p>	<p><b>NOTE: Do this step at the end after installing all of the valves.</b></p>
<p>13</p>	<p>Install valve rear and front cover to valve</p>	
<p>14</p>	<p>Apply new brand decal or transfer old valve decal if not in kit!</p>	
<p>15</p>	<p>Repeat steps for additional valves on dispenser</p>	



## ADJUST WATER -TO-SYRUP RATIO

1. Remove valve cover.
2. Slide solenoid cover forward to remove and expose the solenoid plunger.
3. Turn off POWER to the valve either by turning off the key switch on the side of the valve panel or disconnecting the power plug shown in step 1.



Step1: Remove connector from holder



Step 2: Slide cover forward to remove.



Step 3: To dispense, PUSH plunger with finger till it stops.

Figure 1

4. Install syrup separator over the diffuser and through the nozzle. (Figure 2)
5. Hold ratio/brix cup under valve and push the top of the solenoid dispenser beverage for a specific time (I e 4 seconds)

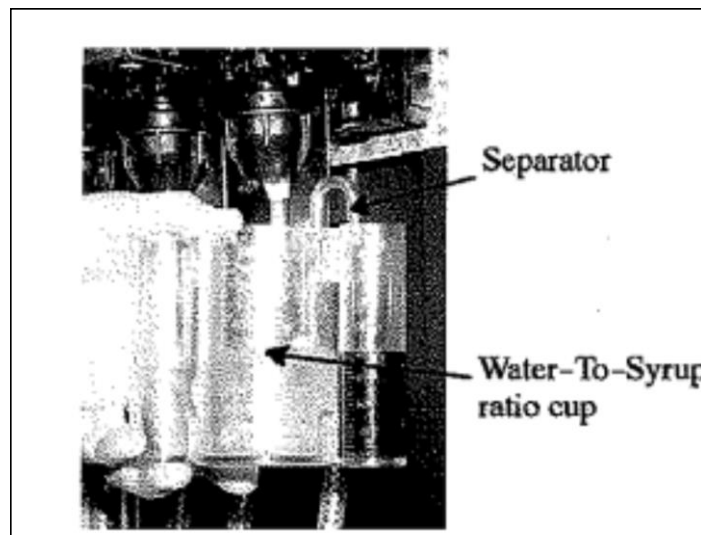


Figure 2

6. NOTE: water and syrup must be cold before checking ratios. Also activate valve prior to checking ratio to prime syrup separator.
7. Adjust carbonated or plain water flow to the desired rate (such 2.50 oz. per second targeting 10oz/4sec). Turn the flow adjuster 1/4 of a turn at a time and recheck the flow. To increase flow rate turn adjustment screw counterclockwise. Once water set leave alone and adjust flow rate of syrup flow rate to achieve proper ratio.
8. Test the valve and adjust until a consistent ratio is delivered three consecutive times.
9. Repeat procedure for other valves.