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INSTALLATION MANUAL

CORNELIUS VALVHOSES WITH QD2 OR PERMANENT MANIFOLDS

ATTENTION INSTALLER – CAUTION!

To prevent damage and malfunctions to valvhouse, please adhere to the following:

1. **DO NOT IMMERSE OR SANITIZE VALVHOSE IN HOT WATER. ALSO, DO NOT EXPOSE VALVHOSE TO ANY HEAT SOURCE.** Heat can damage the tubing and cause leaks.
2. **DO NOT INSTALL WATER INPUT LINE FROM DISCHARGE SIDE OF CARBONATOR PUMP.** This can apply excessive pressure to water line when carbonator recycles.
3. **THE CARBONATED WATER PRESSURE AT THE INLET TO THE VALVHOSE MUST NOT EXCEED 145 PSI STATIC PRESSURE.**

SPECIAL INSTALLATION INSTRUCTIONS TO NOTE:

1. **FOR VALVHOSES WITH PERMANENT MANIFOLDS:** THESE INSTRUCTIONS ARE WRITTEN FOR A VALVHOSE WITH A QUICK DISCONNECT MANIFOLD, HOWEVER, THEY ARE ALSO APPLICABLE FOR A VALVHOSE WITH A PERMANENT (STANDARD) MANIFOLD FOR WINE GUNS. THERE ARE TWO DIFFERENCES, FIRST, THE PERMANENT MANIFOLD CAN NOT BE SEPARATED FROM THE FLEXHOSE ASSEMBLY (THE SYSTEM MUST BE DEPRESSURIZED TO WORK ON THE VALVHOSE) AND THE INPUT FITTINGS ARE HELD IN PLACE WITH A SLIDING INPUT CLIP AND SCREW INSTEAD OF A WIRE CLIP.
2. **FOR CONVERTIBLE VALVHOSES:** CONVERTIBLE VALVHOSES HAVE MANY FEATURES AND ADVANTAGES OVER CORNELIUS STANDARD VALVHOSES. **PLEASE READ THE "CONVERTIBLE VALVHOSE INFORMATION & INSTRUCTIONS" INCLUDED IN THIS BOX.**

INSTALLATION

1. When selecting a location to mount the valvhouse, be sure the space is large enough to adequately support the manifold and coupling block assembly.
2. It may be more convenient to connect the supply lines to the manifold prior to securing the assembly in place. Supply lines should be brought up to the manifold location and marked for easy product identification.
3. Connect input fittings to product lines. (All valvhoses are supplied with 1/4" stainless steel input fittings; 3/8" & 90 degree fittings are also available.)
4. Remove coupling block/valvhouse assembly from manifold assembly to facilitate connection of the product lines. To do this; remove the two manifold bracket screws (thumb screws), pry the cam latch lock up with a screwdriver, pull the cam latches back to the open position, and pull the coupling block/valvhouse assembly from the manifold block.

5. To connect fitted lines to manifold assembly; lube the o'ring on the input fitting, pry the wire input clip on the manifold up to the detent with a screwdriver, push fitting with line into corresponding flavor bore and push the wire input clip down to secure the fitting in place.
6. Mount the manifold block to the counter, with supply lines attached, using both 1" mounting screws provided.
7. Reinstall valvhose assembly in reverse order of step 4 above. Make sure to press cam latch lock back into place and tighten the thumb screws in the side of the manifold bracket.
8. Install both 1-3/4" mounting screws through coupling block assembly to the counter.
9. Attach the hose holder and drip cup in the desired position with the screws provided. Attach the drain tube to the drip cup and place the other end into the drain area. Some states and/or counties require that the drain tube run directly to a floor drain. CHECK YOUR LOCAL CODES!
10. Pressurize system and check for leaks.
11. Before proceeding to the next section, inspect the installation to insure that all components of the supply system and valvhose mounting are correctly attached and secure.

NOTE: THE CONVERTIBLE VALVHOSE CAN BE CONFIGURED TO ANY COMBINATION OF CARB AND NON-CARB FLAVORS. THIS AND OTHER FEATURES ARE EXPLAINED IN THE "CONVERTIBLE VALVHOSE INFORMATION & INSTRUCTIONS" INCLUDED IN THIS BOX.

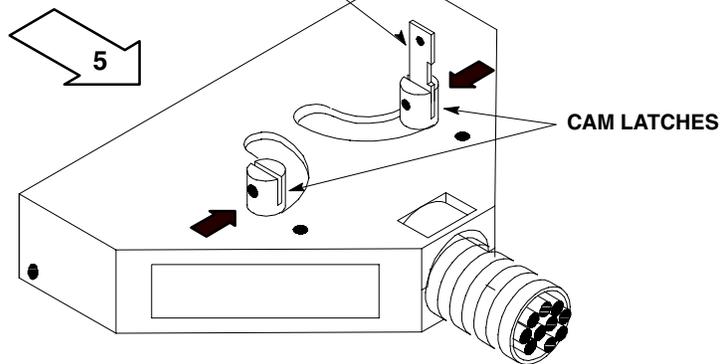
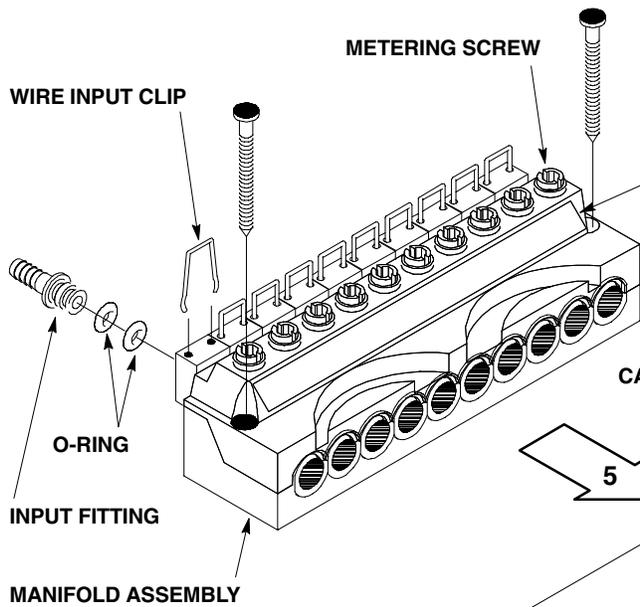
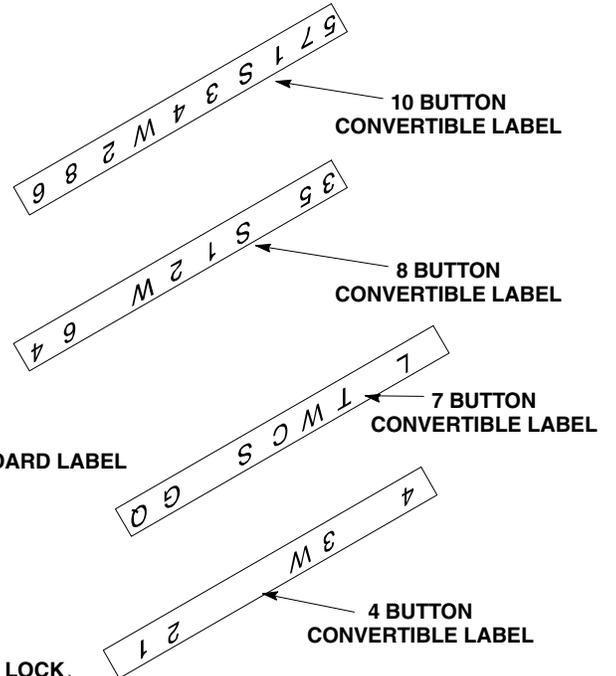
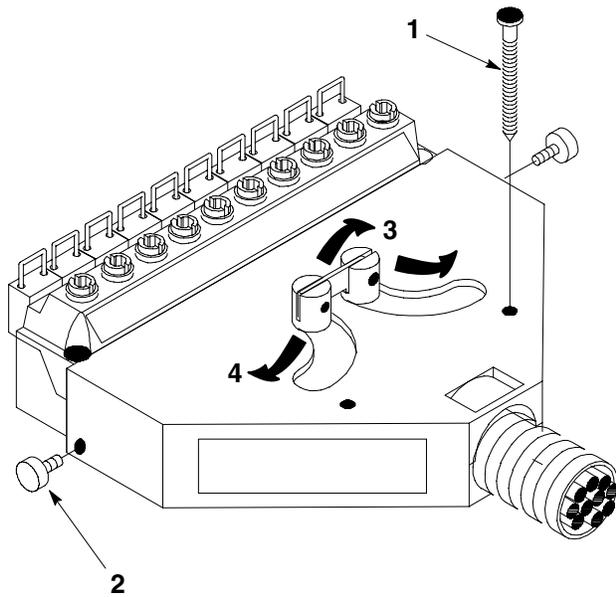
BRIXING

NOTE: SET SODA WATER FLOWRATE TO 1.25 OUNCES PER SECOND.
SET WATER FLOWRATE TO 1.0 OUNCE PER SECOND.

1. The procedure for setting the ratio of concentrate syrup to water is the same for both carbonated and non-carbonated flavors. Turn the soda (or water) metering screw counter-clockwise until it is fully open. The screw will begin to leak if it is driven out too far and a slight turn clockwise will correct the leak. (This is an intended safety feature to alarm the service technician not to continue opening the screw risking possible injury should the screw be blown out under pressure) The metering screw is set for maximum flow at this point. To lower the flow down, turn the metering screw clockwise, a half turn at a time and then measure flow rate. Repeat until desired flow rate is achieved.
2. Using the syrup manufacturer's recommended brix setting as a guide, adjust the syrup metering screw until the correct ratio of syrup to soda (or water) is achieved. This may be checked by two methods:
 - A. Volumetric ratio – setting the volume of soda (or water) to concentrate using a separator nozzle and graduated cup. The separator nozzle splits the syrup and soda streams during dispensing so that the volume of each may be measured for correct brix.
 - B. Refractometer – reads the sugar content directly from the mixed drink. A few drops of dispensed product is put on a clean refractometer slide using a clean straw or pipette. Adjust the metering screw for more or less syrup as required. Clean the slide and straw with fresh water, dry, and resample. Always follow the refractometer's manufacturer's instructions for use. Although this method is accurate, it is not suitable for dietetic and some fruit concentrates.

TO USE THE BARMASTER QUICK DISCONNECT FEATURE:

1. Remove bracket installation screws.
2. Remove side thumb screws.
3. Lift cam latches lock.
4. Pull cam latches open.
5. Pull valvehose assembly from manifold assembly.



4 Button Bargun
 1 - P = Punch
 2 - T = Tea
 3 - F = Flavored Tea
 4 - L = Lemonade

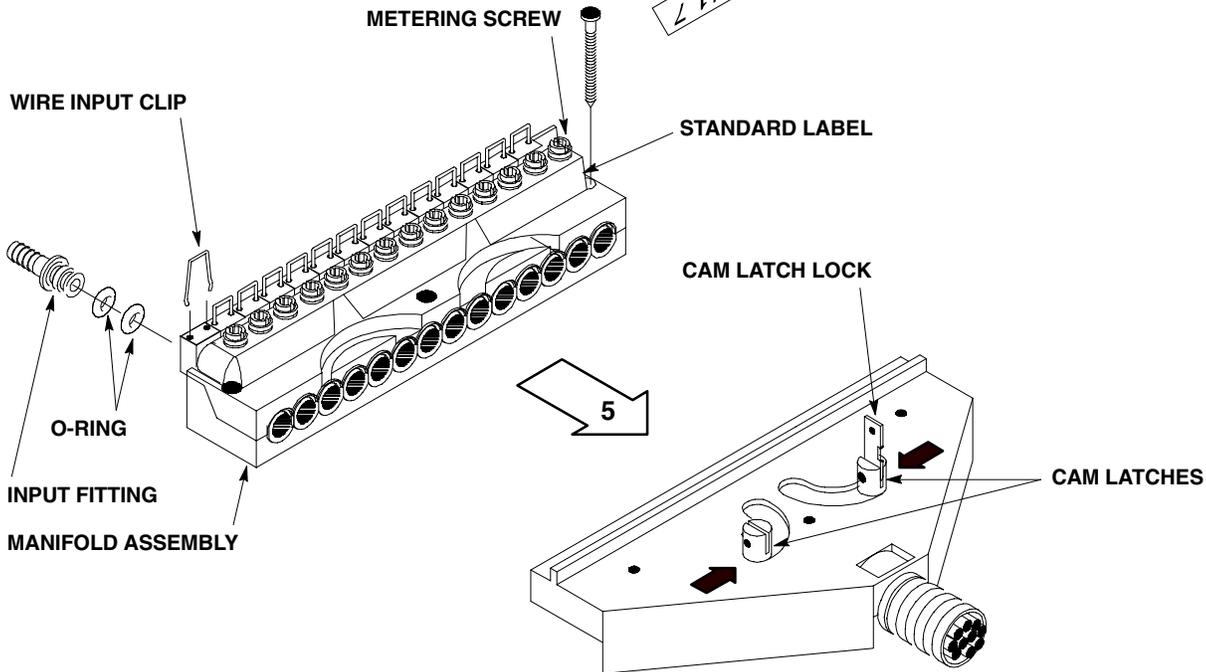
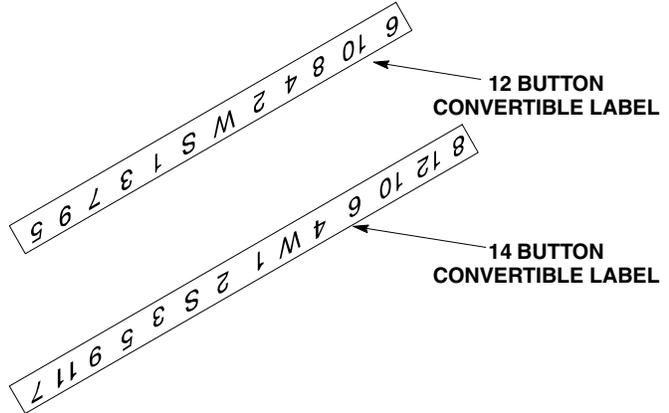
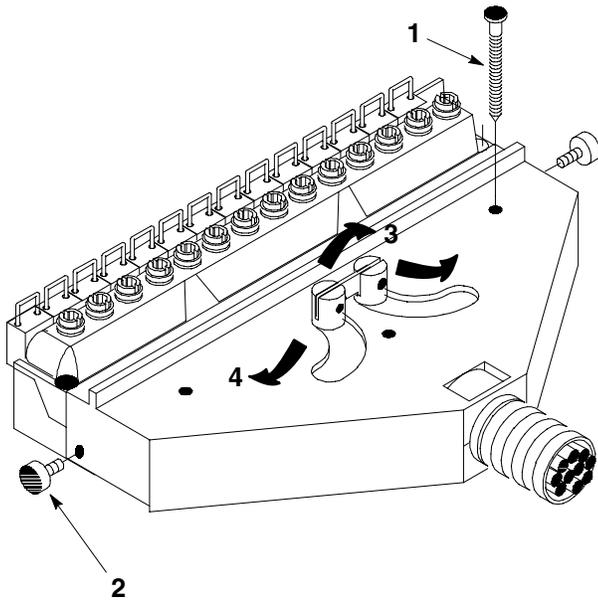
TO REINSTALL;

1. Align valvhose assembly to manifold.
2. Push cam latches forward to engage.
3. Lock in the cam latch.
4. Install all of the removed screws.

FIGURE 1 TYPICAL 7-8-10 BUTTON MANIFOLD ASSEMBLY

TO USE THE BARMASTER QUICK DISCONNECT FEATURE:

1. Remove bracket installation screws.
2. Remove side thumb screws.
3. Lift cam latches lock.
4. Pull cam latches open.
5. Pull valvehose assembly from manifold assembly.



TO REINSTALL;

1. Align valvhose assembly to manifold.
2. Push cam latches forward to engage.
3. Lock in the cam latch.
4. Install all of the removed screws.

FIGURE 1 TYPICAL 12 and 14 BUTTON MANIFOLD ASSEMBLY