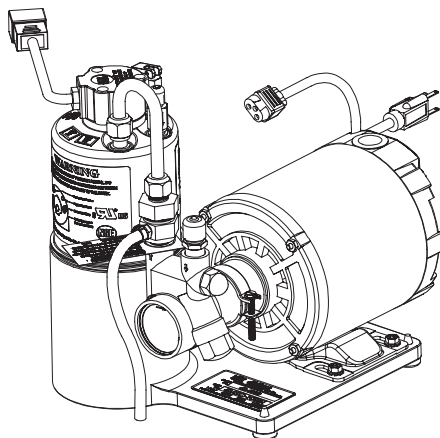


# Instruction Sheet

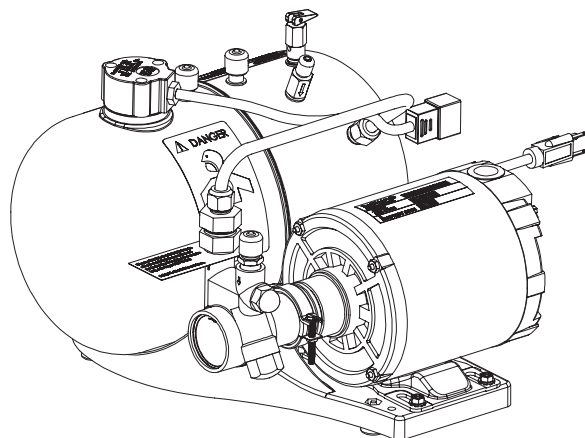
**Subject: McCann's Carbonator & Probe Installation**

**SCOPE: Models 43-6002 & E400397**

These instructions are to be used to assist in the installation of the McCann's 43-6002 & E400397 Carbonators.



**43-6002**



**E400397**

## Important Safety Instructions

### **Caution**

Carbonated water can leach copper out of pipes or fittings. To avoid contamination of potable water, do not connect copper tubing between the tank and the dispensing faucet. Copper tube, brass and bronze all contain enough copper to cause vomiting and diarrhea if exposed to carbonated water or soft drinks. A ventable double check valve meeting ASSE Standard 1022 has been installed on this unit to protect the water supply from copper leaching. Do not remove or tamper with the device.

1. Use at least 3/8" ID hose as water line to connect to the carbonator pump. If the water line needed is longer than 12 feet, use at least 1/2" water line. A shut-off valve, pressure regulator and water filter may be installed in the water line. The water pressure coming to the pump must not be higher than 70 psi. Water supply pressure between 40 to 60 psi is preferred. Higher than 70 psi will require the use of a pressure regulator.
2. Connect CO<sub>2</sub> pressure supply to CO<sub>2</sub> inlet fitting of carbonator tank. Normal operating pressure should be 100 psi. Maximum operating should not exceed 120 psi. If carbonator drinks show too much foam, set pressure 80 to 90 psi.
3. Connect carbonator soda outlet line to dispenser system.
4. Open pressure relief valve (toggle lever at vertical position).
5. Turn water supply on and fill the tank until water can be seen coming out of the pressure relief valve's vent hole.
6. Close pressure relief valve (toggle lever at horizontal position).
7. Turn on CO<sub>2</sub> and adjust to correct pressure. (See Step 2)
8. Check system, both water and CO<sub>2</sub>, for leaks.
9. Turn the power supply "ON". (Plug-in the power cord to the receptacle. For permanent installation flip-ON the switch and/or Circuit Breaker.)

- Motor will not start until the dispensing faucet is open. Let the carbonator motor cycle for several times to flush the system.

### Grounding Instructions

*For grounded cord-connected carbonators*

This appliance must be grounded. In the event of malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This appliance is equipped with a cord having an equipment-grounding conductor and is installed and grounded in accordance with all local codes and ordinances.

NOTE: The 230V appliances are not provided with grounding electrical plug.

#### Warning

Improper connection of equipment-grounding conductor can result in a risk of electric shock. The conductor with insulation having an outer surface that is green with or without yellow stripes is the equipment-grounding conductor. If repair or replacement of the cord or plug is necessary, do not connect the equipment grounding conductor to a live terminal. Check with a qualified electrician or serviceman if the grounding instructions are not completely understood, or if in doubt as to whether the appliance is properly grounded. Do not modify the plug provided with the appliance. If it will not fit the outlet, have a proper outlet installed by a qualified electrician.

The carbonator's power cord is terminated with a molded-on three-prong (NEMA 5-15) electrical plug as shown in Figure 1.

**DO NOT MODIFY OR USE AN EXTENSION TO ADAPT THE PLUG TO THE RECEPTACLE.**

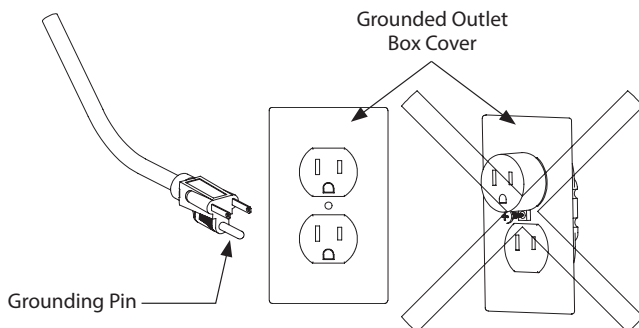


Figure 1  
Proper Grounding Method

If local code requires different means of connecting the unit to the power supply, other than the power cord provided, have a licensed electrician perform the installation.

### User-maintenance Instructions

#### Warning

#### Electric Shock Hazard

Unplug unit before servicing. Failure to do so may result in serious injury or death.

ITEM	PART NO.	DESCRIPTION
A	10-0573	SCREWS (3)
B	16-2115-41	115V PROBE ELECTRONICS
B	16-2220-41	220V PROBE ELECTRONICS
C	030000506	PROBE GASKET
D	16-1441	STUDS (3)
E	15-1951	FLOAT ASSEMBLY

#### TOOLS REQUIRED

- Phillips Head Screwdriver

#### TO REPLACE MCCANN'S TWO-PIECE PROBE

(See Figure 2)

- Unplug the carbonator from the power source.
- Shut OFF the CO<sub>2</sub> and water to the carbonator.
- Relieve the pressure in the carbonator tank by lifting the plastic lever on the pressure relief valve.
- Unplug the old probe from the motor cord assembly.
- Using a phillips head screwdriver, unscrew the three (3) screws (A) and remove the probe electronics (B).
- Unscrew the three (3) mounting studs (D) and remove the float assembly (E).
- Install the new float assembly (E) onto the carbonator tank, using the new three (3) mounting studs (D).
- Place the probe gasket (C) on top of the float assembly (E) before the new probe electronics (B) are attached.
- Using a phillips head screwdriver, install the new probe electronics (B) to the float assembly (E) by tightening the three (3) screws (A) included with the new probe electronics to the float assembly (E).

**NOTE: MAKE SURE THE PROBE GASKET (C) COMPRESSES BETWEEN THE FLOAT ASSEMBLY (E) AND THE PROBE ELECTRONICS (B), PREVENTING WATER FROM MIGRATING INSIDE.**

- Plug in the new probe electronics (B) to the motor cord assembly.
- Turn the water and CO<sub>2</sub> back ON, and restore power to the carbonator.
- Proceed with the normal start-up procedure, test the new probe operations, and check for leaks.

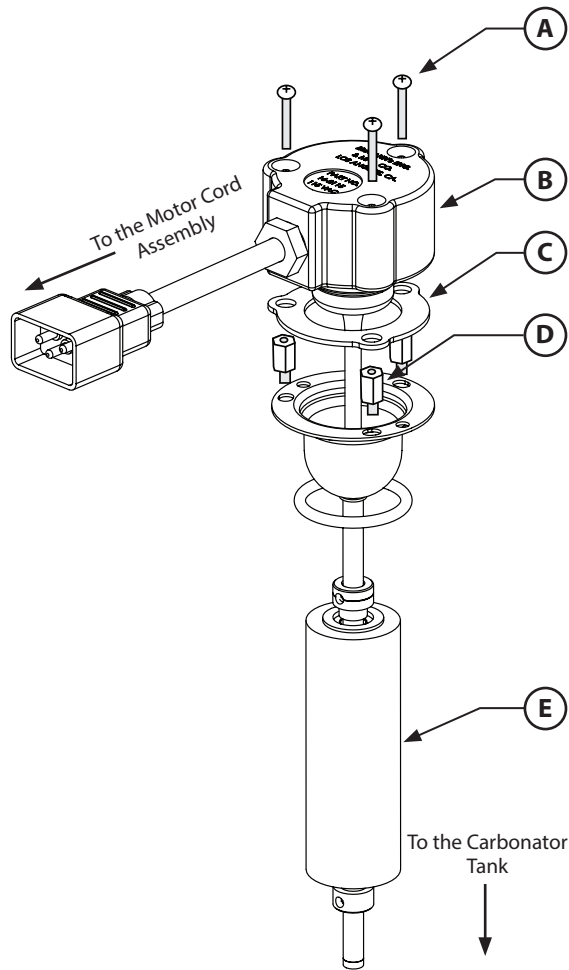


Figure 2

**TO REPLACE ONLY THE PROBE ELECTRONICS**

1. Unplug the carbonator from the power source and the old probe from the motor cord assembly.
2. Using a phillips head screwdriver, unscrew the three (3) screws (A) and remove the old probe (B).

NOTE: It is not necessary to relieve the pressure in the tank when only replacing the probe electronics.

3. Place the probe gasket (C) on top of the float assembly (E) before the new probe electronics (B) are attached.
4. Using a phillips head screwdriver, install the new probe electronics (B) to the float assembly (E) by tightening the three (3) screws (A) included with the new probe electronics to the float assembly (E).

NOTE: **MAKE SURE THE PROBE GASKET (C) COMPRESSES BETWEEN THE FLOAT ASSEMBLY (E) AND THE PROBE ELECTRONICS (B), PREVENTING WATER FROM MIGRATING INSIDE.**

5. Plug in the new probe electronics (B) to the motor cord assembly and restore power to the carbonator.
6. Cycle the carbonator by operating a valve on the post mix dispenser.

115 VOLT CARBONATORS	
KIT NO.	KIT INCLUDES ITEMS
16-1404	A, B, C, D, E
16-2115	A, B, C

220 VOLT CARBONATORS	
KIT NO.	KIT INCLUDES ITEMS
16-1406	A, B, C, D, E
16-2220	A, B, C