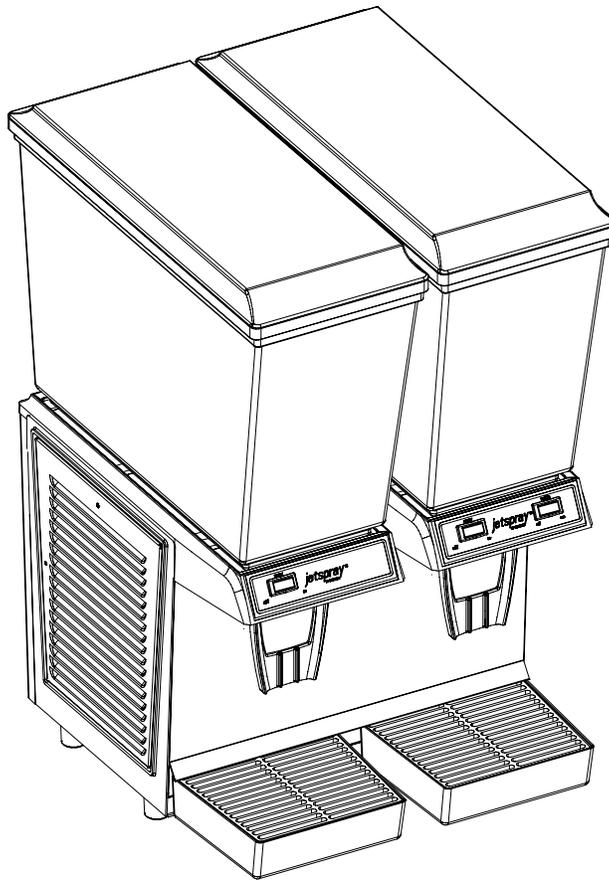




JetSpray Visual Display Dispenser JT20C

Operator's Manual



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CONTACT INFORMATION

The products, technical information, and instructions contained in this manual are subject to change without notice. These instructions are not intended to cover all details or variations of the equipment, nor to provide for every possible contingency in the installation, operation or maintenance of this equipment. This manual assumes that the person(s) working on the equipment have been trained and are skilled in working with electrical, plumbing, pneumatic, and mechanical equipment. Appropriate safety precautions should be followed and all local safety and construction requirements should be met.

To inquire about current revisions of this and other documentation, or for assistance with any Cornelius product contact:

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INTRODUCTION

The JT20C Dispenser is a countertop visual display action beverage dispenser. It is designed to dispense a variety of products.

It dispenses fruit juice, lemonade or other non-carbonated drinks.

SAFETY

Safety Instructions

ALWAYS read and follow **ALL** safety instructions

Safety Overview

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

Read and understand ALL applicable OSHA (Occupational Safety and Health Administration) safety regulations before installing or operating this machine.

Recognition

Recognize Safety Alerts



This is the safety alert symbol. When you see it in this manual or on the machine, be alert to the potential of personal injury or damage to the machine.

DIFFERENT TYPES OF ALERTS

There are 3 types of safety alerts used in this manual:



DANGER — Indicates an immediate hazardous situation which if not avoided **WILL** result in serious injury, death, or equipment damage.



WARNING — Indicates a potentially hazardous situation which, if not avoided, **COULD** result in serious injury, death, or equipment damage.



CAUTION — Indicates a potentially hazardous situation which, if not avoided, **MAY** result in minor or moderate injury or equipment damage.

Safety Tips

- Carefully read and follow all safety messages in this manual and safety signs on the machine.
- Keep safety signs in good condition and replace missing or damaged safety signs.
- Learn how to operate the machine and how to use the controls properly.
- Do not let anyone operate the machine without proper training. This appliance is **not** intended for use by very young children or infirm persons without supervision. Young children should be supervised to ensure that they do not play with the appliance.

- Keep your machine in proper working condition and do not allow unauthorized modifications to the machine.

QUALIFIED SERVICE PERSONNEL



CAUTION — Only trained and certified electrical, plumbing and refrigeration technicians should install or service this unit. ALL WIRING AND PLUMBING MUST CONFORM TO NATIONAL AND LOCAL CODES.

SAFETY PRECAUTIONS

This unit has been specifically designed to provide protection against personal injury. To ensure continued protection observe the following:

IMPORTANT: Disconnect power to the unit before servicing or cleaning.

ALWAYS: be sure to keep area around the unit clean and free of clutter.

SHIPPING AND STORAGE



CAUTION — Before shipping, storing, or relocating the unit, syrup systems must be sanitized and all sanitizing solution must be purged from the syrup systems. All liquids must be purged from the unit after sanitizing. A freezing ambient environment will cause residual sanitizing solution or water remaining inside the unit to freeze resulting in damage to internal components.

LOCATION

Place the dispenser on a solid, level surface with not part of the unit extending beyond the edge of that surface.

POWER AND WATER

Power

The JT20C requires a 120 Volt, 60Hz grounded receptacle for proper operation, grounding and safety.

NOTE: If the colors of the wires in the main leads of this unit do not correspond with the colored markings identifying the terminals in your plug, proceed as follows:

The green and yellow wire **must** be connected to the terminal in the plug marked with one of the following indicators.

1. The Letter E
2. Colored Green
3. The Earth Ground Symbol
4. Colored Green and Yellow

The blue wire **must** be connected to the terminal in the plug marked with the letter N or colored blue.

The brown wire **must** be connected to the terminal in the plug marked with the letter L or colored Orange.

Power Cord

If a power cord is damaged, do not attempt to replace it. Take your unit to your nearest authorized service center for repair. A special tool is required to replace the cord.

Water



WARNING — The water supply should be consistent with proper water quality standards (neutral pH of 7.0 to 8.0), and should not be connected to a water softener. Drink quality may be affected by poor water conditions. Water connections should be sized, installed and maintained according to federal, state and local laws.

NOTE: Unit should be filled from a potable water supply in accordance with Federal, State, and Local codes. It is the operator's responsibility to ensure that the potable water supply is available.

NOTE: JetSpray dispensers conform to the requirements of the Model Water Bylaws of 1986, SI 11476.

NOTE: All surfaces that come into contact with food or drinking water are constructed of food quality non-toxic materials, are non-corrosive, non-tainting and do not support the growth of bacteria.

OPERATING ADJUSTMENTS



WARNING — Dangerous voltages are present within the unit even if the power switch is turned off. Before attempting any adjustments inside the machine, turn the unit off and unplug it from the electrical receptacle.

INSTALLATION AND OPERATING INSTRUCTIONS

SETTING UP YOUR JT20C

1. Set dispenser chassis in desired location. Dispenser should be level and located on a solid counter.
2. Be sure dispenser has adequate free space on both sides; approximately 3" away from any wall or obstruction.

Cleaning the Dispenser

1. Removing the push handles. (See Figure 1)

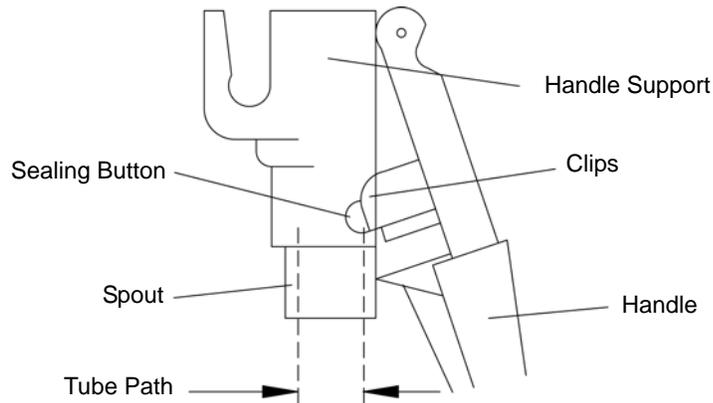


Figure 1

- a. Push handle back until it stops.
 - b. Grasp the clips on the handle. Squeeze clips until they are free from the panel. Pull straight down on the handle.
2. Disassemble the bowl, lid, gasket, and pump housing assemblies.

CAUTION: Abrasive cleaners scratch plastic parts. NO NOT USE abrasive cleaners.

To Assemble

1. Slide the drip tray with grill into place.
2. Consider installation of a drain hose which connects to the outlet on drip tray bottom (Part No. S-3379).
3. Turn bowl upside down and insert gasket into groove. Wet gasket for ease of insertion, pressing gasket into groove while following the number sequence (1 - 8) shown in Figure 2.

Press in Gasket
According to Sequence Shown
Until Gasket is Completely Seated

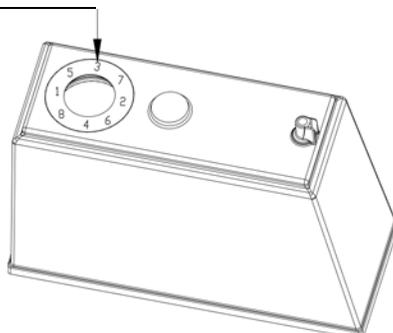


Figure 2



4. Check that bowl spout gasket is mounted properly to the base assembly, as shown in Figure 3.

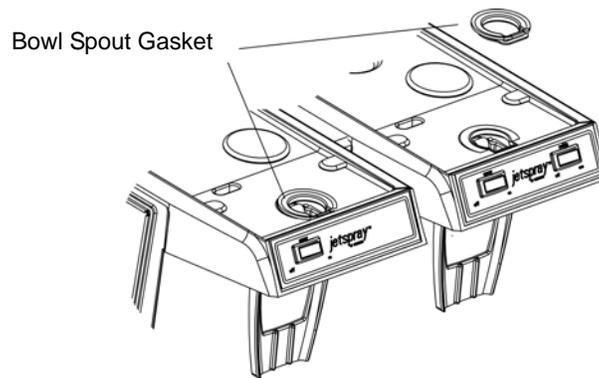


Figure 3

5. Slide bowl over the cooling dome and assemble the bowl to the dispenser. Be careful not to wrinkle the gasket. If gasket is wrinkled, beverage will leak out of bowl. (See Figure 4.)

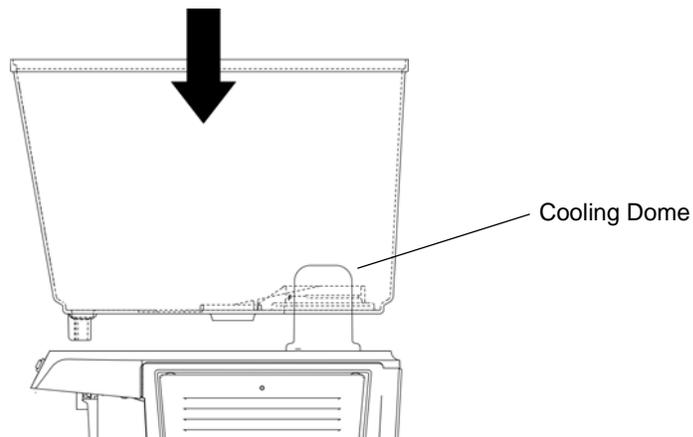


Figure 4

6. Locate the blade in the bowl. The magnet self-locates the blade, once it is moved into position. Make sure blade bearing is in place before placing it in the bowl, as shown in Figure 5.

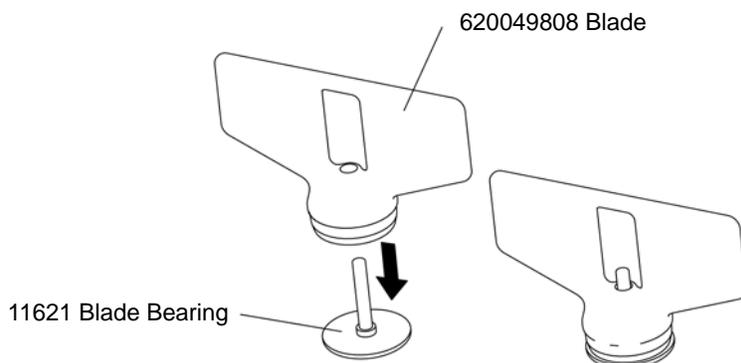


Figure 5

7. Replace push handle and pinch tube.
 - a. Push the handle assembly straight up through the rectangular hole until the clips snap into place (See Figure 6.).

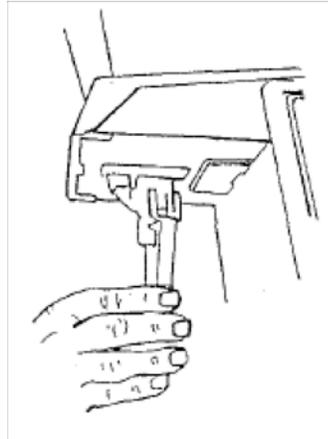


Figure 6

- b. Remove pinch tube from the plastic bag and wash it.
- c. Before installing, wet the bowl spout surface and pinch tube. Push back the handle until it stops.
- d. Carefully insert pinch tube into the bowl spout opening and on into lower opening of the handle support spout. Make sure the end of the tube does not get caught on the edge above the handle support spout opening. Pull the end of the tube to seat it firmly into the bowl spout seat. Make sure the tube is free of wrinkles and extends below the support spout about a 1/4 inch (See Figure 7.).

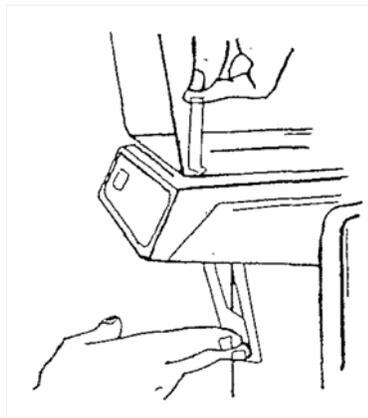


Figure 7

Operating Procedures

1. Follow beverage manufacturer's directions in filling bowls. To aid in filling, the bowls have gallon and liter markings up the center of the front wall. Gallons are on the left and liters are on the right.
2. Turn on the refrigeration and spray switches. Product should be cold enough to serve in 2 hours. Switches should be left ON 24 hours a day to insure efficient operation.

NOTE: If unit is to be used to dispense beverage from only one bowl, use right hand bowl, but add a gallon of water to left bowl to assure proper cooling.

3. The thermostat is preset at the factory and does not normally require resetting by owner.

FREQUENT MAINTENANCE PROCEDURES

CLEANING THE BOWLS

1. Before removing the bowls, turn off both the refrigeration and spray switches. Unplug the unit from its power source.
2. Drain any beverage left in the bowls.
3. Remove pinch tube by pushing handle until it stops. Pull up on the pinch tube until it is free, then remove the handle (see Page 3). Lift off the bowls, drip trays and covers. Clean them thoroughly.
4. Clean as described in "Cleaning the Dispenser" on page 4.
5. After cleaning, assemble as described in "To Assemble" on page 4. Replace the push handle and insert the pinch tube into the bowls.

CLEANING THE CONDENSATE DRAINS

1. To remove the condensation drains, push in on the front panel, just under the drain and pull down with fingers, as shown in Figure 8.

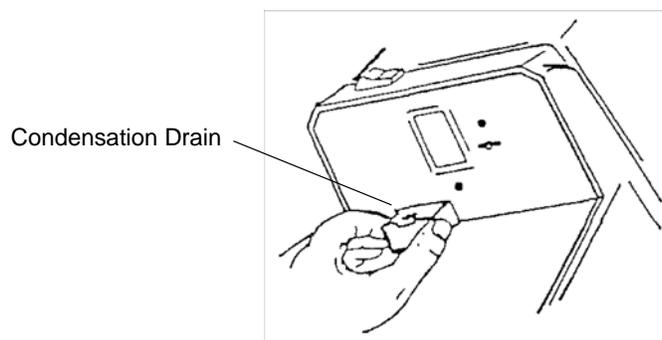


Figure 8

2. To replace the condensate drains, hold the drain against the front panel under the rectangular hole (opening in side of drain should be toward front panel). Push up through the hole until the drain snaps into place (see Figure 9).

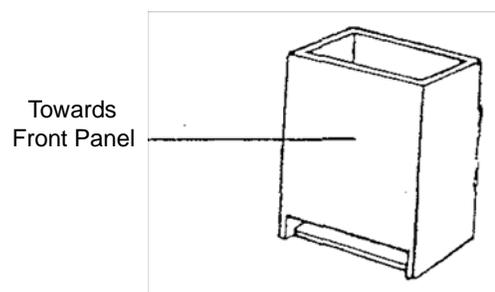


Figure 9

SANITIZING THE UNIT

After cleaning, add one gallon of water at a temperature of between 75°F and 100°F to the bowl. Mix one tablespoon of approved powdered chlorine sanitizer* to a pint of water and when dissolved, pour into bowl.

Replace the lid and run the unit for two or three minutes. Shut off the unit and drain the contents through the pinch tube valve.

*Diversey-MultiChlor or equivalent powder or liquid sanitizer.

CAUTION: DO NOT run the refrigeration system while sanitizing the unit.

VENTILATION

AIR FLOW IS ESSENTIAL TO THE OPERATION OF THE UNIT. ALLOW AT LEAST 3 INCHES OF SPACE ON THE BACK AND SIDE OF THE DISPENSER. LINT OR DUST COLLECTING ON THE CONDENSER RESULTS IN POOR REFRIGERATION.

CLEANING THE CONDENSER

1. Turn off the Refrigeration Switch.
2. Remove the right side panel. Clean filter(s) by running a stream of hot water through the inside surface of filter(s) and allow them to dry. Filter(s) should be replaced, if necessary. (See Parts List).
3. Clean the condenser with vacuum cleaner or brush, making sure no loose dirt goes into the dispenser.
4. Clean and replace the panels.

CORRECTING DISPENSER DIFFICULTIES

Blade Does Not Spin

1. Be sure that both bowl switches are in the ON position.
2. Check the blades for proper installation position.
3. Check that the blades are positioned and spins freely on the bearing. Sugar and solids can crystallize around the blade area and cause the blade to bind. Frequent washing eliminates this problem. See Figure 10.

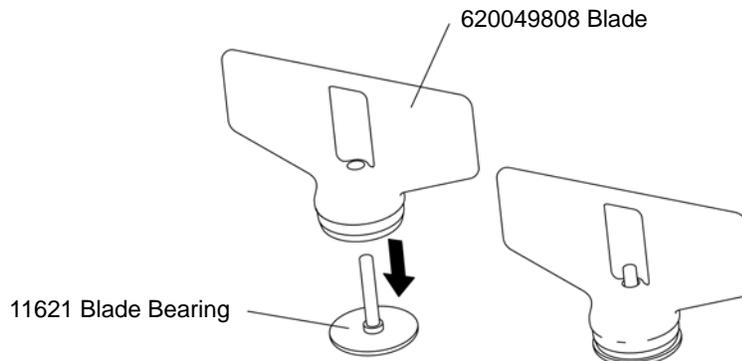


Figure 10

NOTE: Switch must be in the OFF position when inserting the pump housing assembly into the bowl to assure magnetic coupling.

BOWL LEAKS

1. Do not confuse drippings from condensation on the outside of the bowl as bowl or faucet leaks. High humidity causes condensation on the bowls.
2. Be sure gasket has been installed properly. Check gasket for tears or cuts in the rubber. Tears cause leaks in the gasket.

3. Remove and inspect pinch tube for holes.

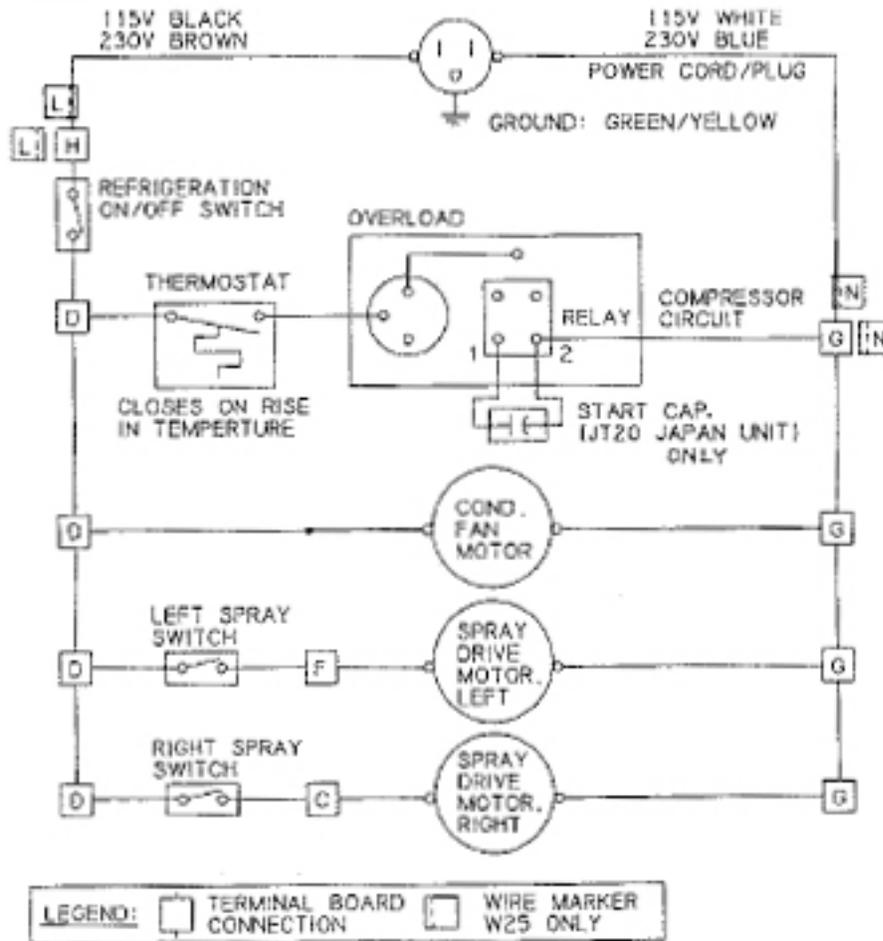


Figure 11. Model JT20C Wiring Diagram (Rev. 8)

SPECIFICATIONS

Power Cord:

7 ft. w/ground connection (2.1 meters)

Size:

16 in. Wide X 19 in. Long X 26.625 in. High (19.7 cm Wide X 48.3 cm Long X 67.7 cm High)

Beverage Bowl & Cover:

Transparent, virtually unbreakable LEXAN[®] resin

Cabinet:

Stainless steel and beige LEXAN[®] resin

Capacity:

Over 10 US gallons; 40 liters

Over 6 US gallons; 24 liters

Refrigeration:

Jet Spray 1/5 h.p. Hermetically Sealed System

Refrigerant:

R134a Refrigerant - 5.08 ounces (144 grams)

Spray Drive and Fan Motor:

No Oiling Required

Power Drive Magnet:

Permanent INDOX Magnet

Net Weight:

Base Only: 51 lbs. (23.1 kgs.)

Large Bowl: 7 lbs. (3.2 kgs.)

Small Bowl: 5 lbs. (2.3 kgs.)

Shipping Weight:

Base Only: 61 lbs. (27.7 kgs.)

Large Bowl: 10 lbs. (4.5 kgs.)

Small Bowl: 8 lbs. (3.6 kgs.)

Carton Cube:

Base Only: 4.8 cu. ft. (0.136 cu. m.)

Large Bowl: 1.7 cu. ft. (0.048 cu. m.)

Small Bowl: 1.4 cu. ft. (0.04 cu. m.)

Machine Clearance:

6 inches - Rear

6 inches - Sides

Open - Top

Class of Windings:

Compressor Motor - Class H (climatic rating: normal)

Condenser Fan Motor - Class B

Environment:

Temperature:

Operating: 60°F (16°C) to 110°F (43°C)

Storage: Above 20°F (-7°C) with bowl empty and dry.

Humidity: Below 95%



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