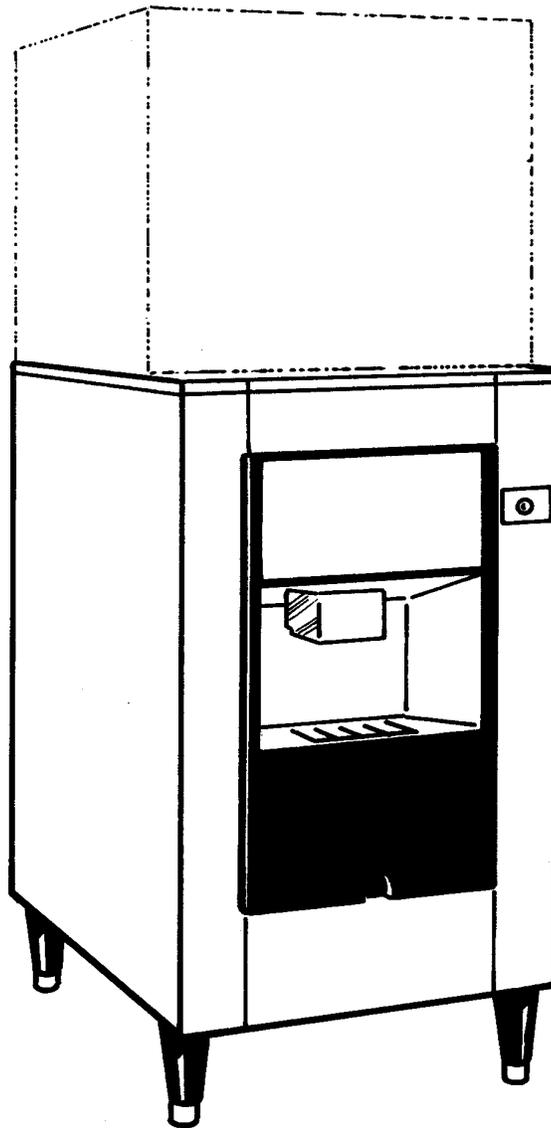


# ***Ice-O-Matic***<sup>®</sup>

## **SERVICE/INSTALLATION MANUAL HOTEL DISPENSER MODEL-CD220**



Ice-O-Matic  
11100 East 45th Ave  
Denver, Colorado 80239  
Part Number 9081303-01

Date 1/09

To the owner or user: This product manual is a source of information about the installation, start up, cleaning, maintenance and repair of the product.

### **Table of Contents**

Introduction	Page 1
Specification/Limitations	Page 2
Installation-General	Page 3
Installation-Ice Machine	Page 4
Installation-Initial Start-Up	Page 5
Operational Schematic	Page 6
General Care and Cleaning	Page 7
Service Diagnosis	Page 8
Removal and Replacement	Page 9
Wiring Diagram	Page 10
Warranty Information	Page 2

**Ice-O-Matic**  
**11100 E. 45<sup>th</sup> Ave.**  
**Denver, Co. 80239**  
**800-423-3367**

**The CD220 Service Parts Manual is available separately, Part Number 9081304-01**

**Specifications and Limitations**

This dispenser is designed to dispense cubed ice only and to be installed and operated indoors, in a controlled environment. Its minimum and maximum operating temperature limits are the same as those for the ice machine.

Limitations:

- Must meet the same limitations as the cuber installed on top of it.
- Must allow adequate space for air flow when using and air cooled machine.
- Must allow space for utility connection at the back.
- Must have a drain.
- The CD220 is compatible with Ice-O-Matics cuber models ICE0320, ICE0520, GC300 and GC550.
- A thermostatic bin control kit is required on all ICE Series cubers. (Part Number 1051034-01)

**Optional Kits for the CD220 (Field install only)**

Coin Mechanism, **Not Available**

Key Mechanism, **Not Available**

**Operating Requirements:**

	<u>Minimum</u>	<u>Maximum</u>
Air Temperature	50° F	100° F
Voltage	104 VAC	126 VAC

Check the nameplate, located on the back of the dispenser cabinet for specific information.

**Ice-O-Matic ice machines are not designed for outdoor installations.**

Machine requires voltage indicated on rating nameplate. Failures caused by improper voltage are not considered factory defects. Extended periods of operation at temperatures exceeding limitations constitutes misuse under the terms of the Ice-O-Matic Manufacturer's Limited Warranty, resulting in a loss of warranty coverage. Specifications and design are subject to change without notice. Ice-O-Matic assumes no liability of any kind for products manufactured by Ice-O-Matic that have been altered in any way, including the use of any parts and/or other components not specifically approved by Ice-O-Matic.

**The CD220 dispenser has a 2 year Parts warranty and a 2 year Labor Warranty.**

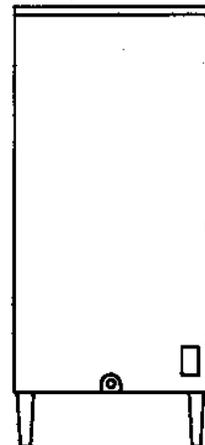
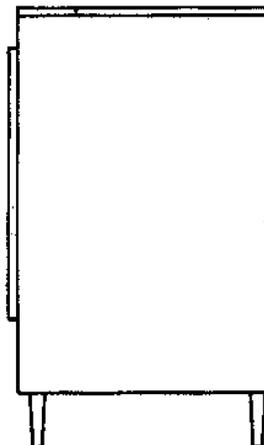
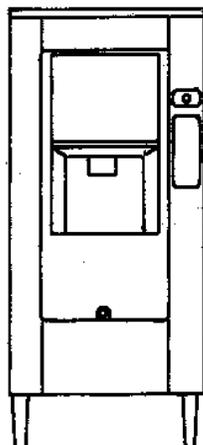
<u>Model</u>	<u>Electrical</u>	<u>Amps</u>	<u>Fuse</u>	<u>Vend Type</u>	<u>Storage Bin</u>	<u>Finish</u>
CD220	115/60/1	2.9	15	Push Button	90 lbs.	Stainless Steel

Cabinet  
Dimensions  
with legs

22 inches wide

32 inches deep

50 inches tall



After the carton has been removed from the dispenser, the legs may be installed.

Place flat portions of the carton on the floor behind the dispenser and lay the dispenser down on its back.

Thread the legs into the base of the dispenser. Be sure that the legs are screwed in all the way. Turn the leg levelers in all the way.

Move the dispenser to an upright position and set it in the location where it will be installed. Note where the drain lines will be made.

**Drain:**

The dispenser has a  $\frac{3}{4}$  inch FPT drain fitting at the bottom center of the back panel. Connect  $\frac{3}{4}$  inch rigid tubing to this connection, a vent is recommended for most installations. Route the drain tubing to the building drain. Follow all applicable plumbing codes.

Because the drain tubing will be very cold, insulation of the tubing is recommended.

**Electrical:**

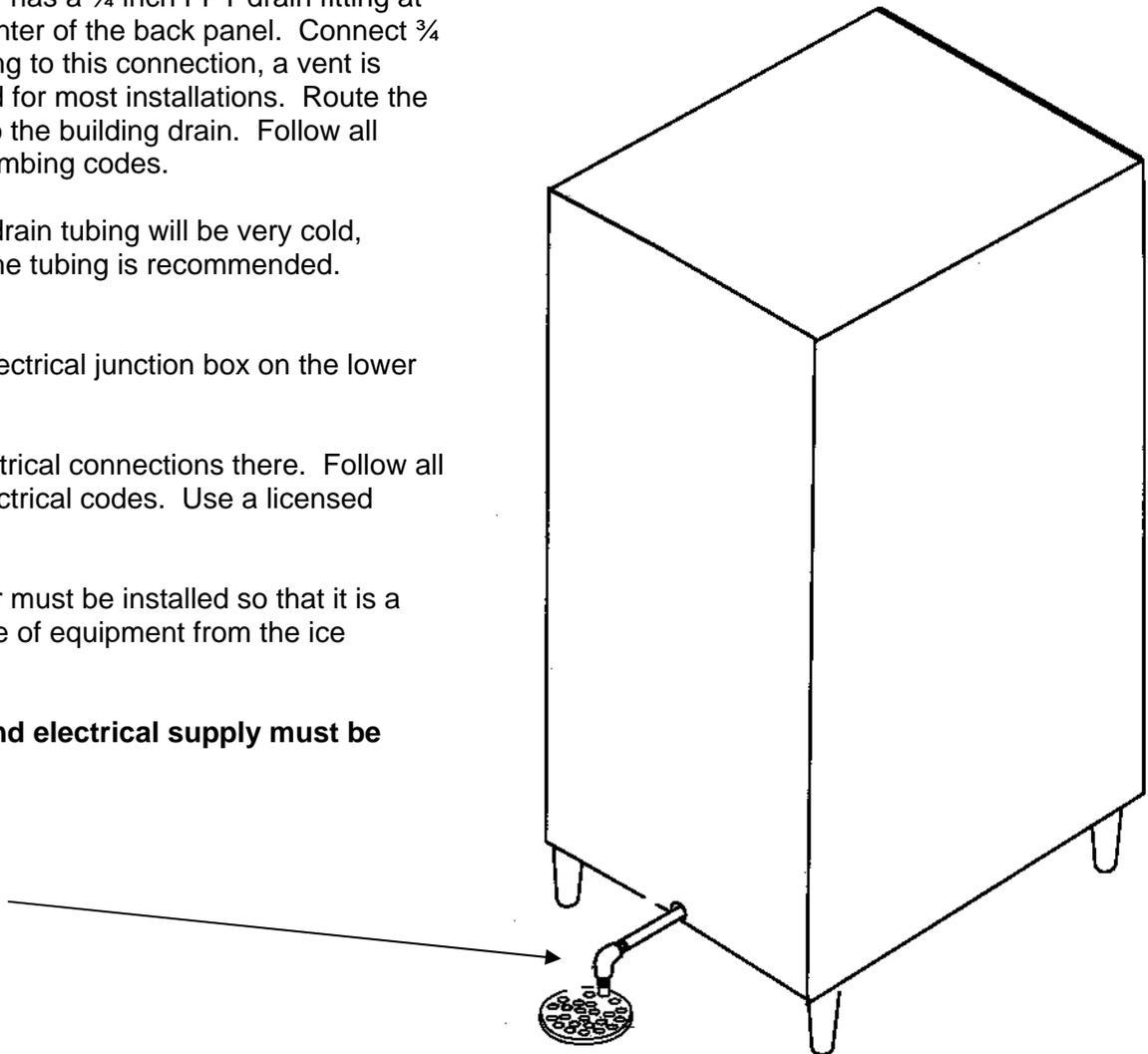
There is an electrical junction box on the lower back panel.

Make the electrical connections there. Follow all applicable electrical codes. Use a licensed electrician.

The dispenser must be installed so that it is a separate piece of equipment from the ice machine.

**The drains and electrical supply must be separate.**

Drain

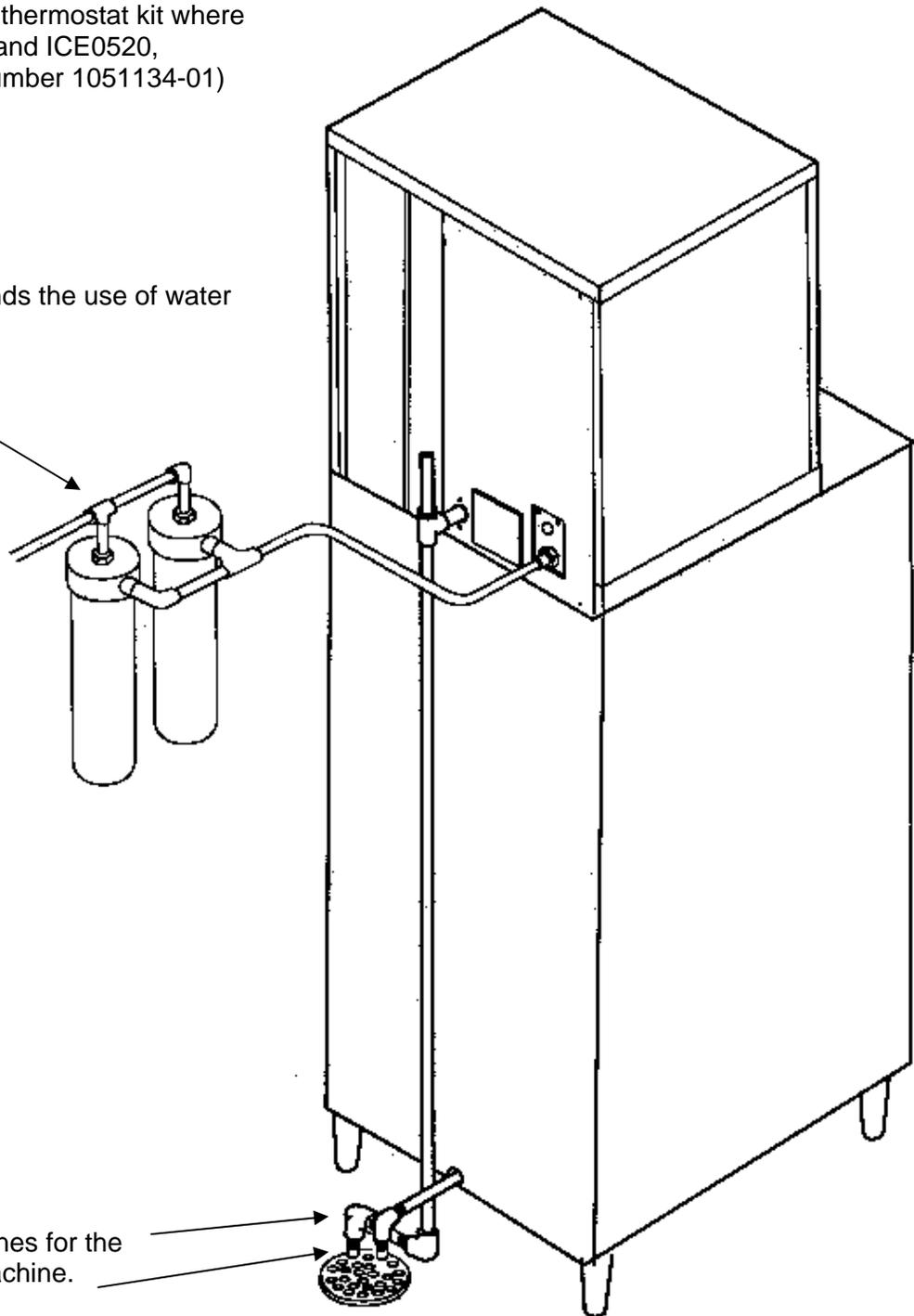


Note: Remove any packing material from inside the storage bin. Retain the keys for later use. Check that the gasket tape is on the top outside edge of the dispenser where the ice machine will rest.

Check that the gasket tape has been placed at the outside edge of the dispenser top.

Place the ice machine onto the top of the CD220. Install the bin thermostat kit where applicable. (ICE0320 and ICE0520, Thermostat Kit Part Number 1051134-01)

Ice-O-Matic recommends the use of water filters.



Run separate drain lines for the dispenser and ice machine.

1. Check that the electrical power has been supplied.
2. Check that a drain, separate from the ice machine, insulated and made of rigid tubing has been connected to the dispenser.
3. Check that the ice machine has been properly installed per the ice machines installation directions.
4. Check that the ice machine/dispenser assembly is level front to back and left to right.
5. Check that the optional kits, if any, have been correctly installed.
6. Check that the sink key, and coin box key if used, are available.

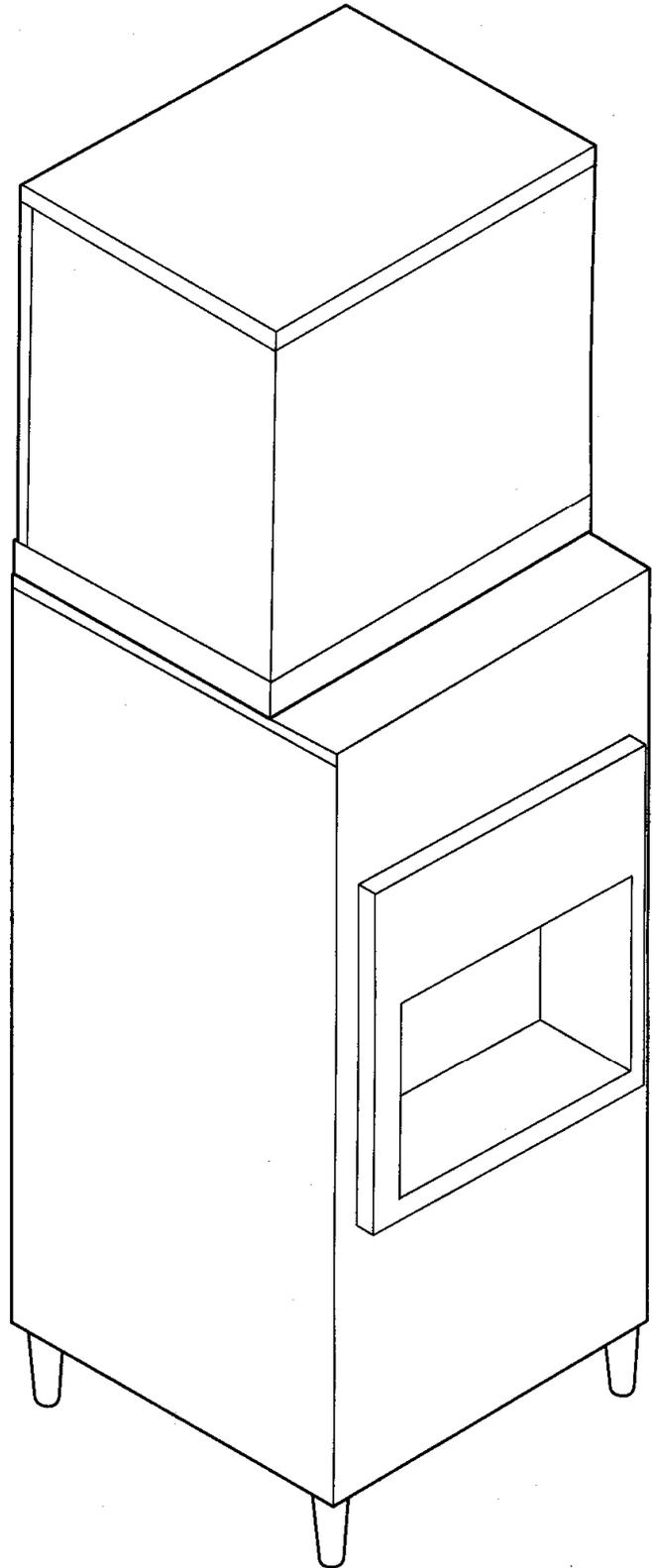
**To Start:**

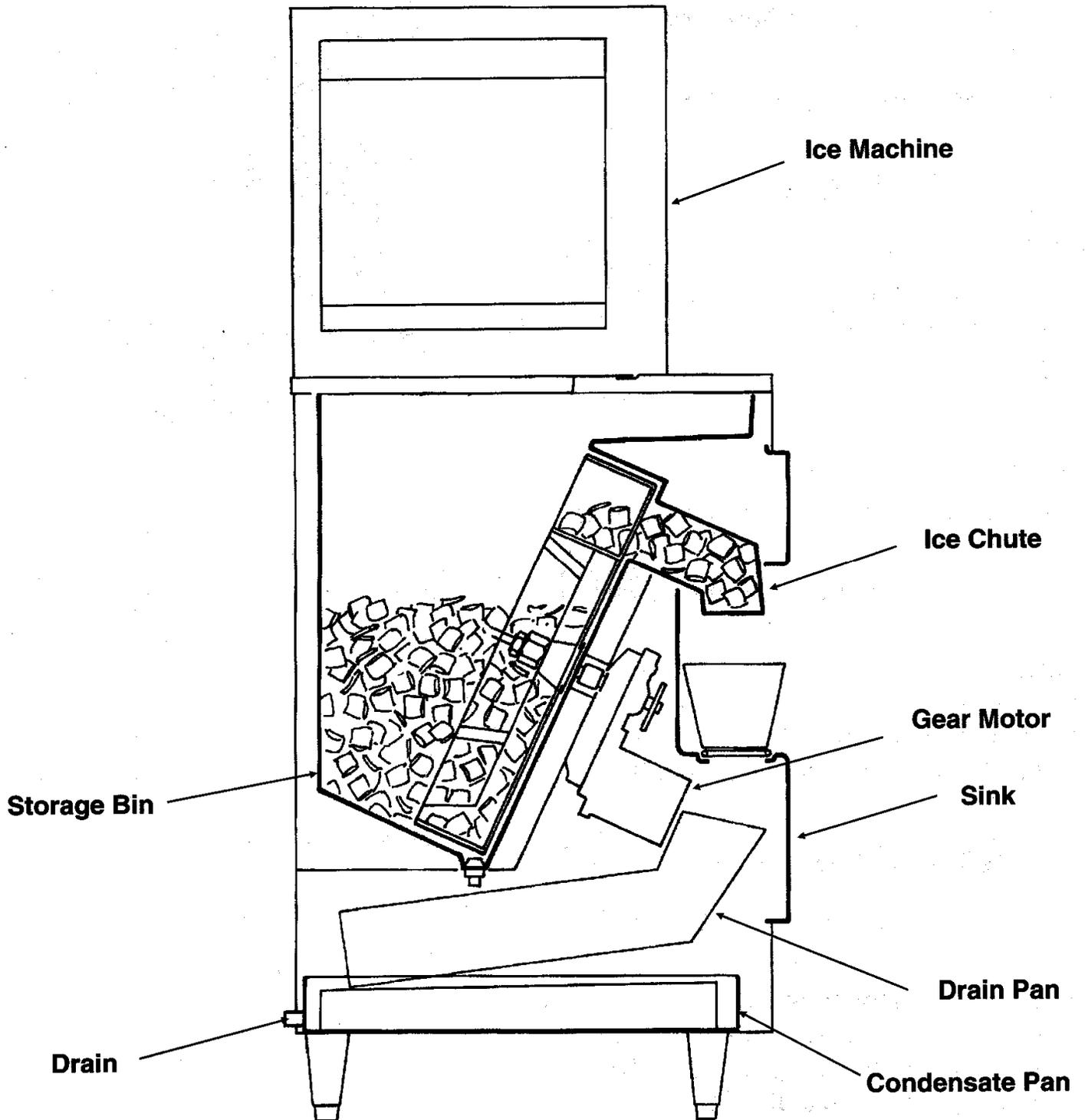
1. Connect electrical power.
2. Go through the ice maker start up procedures. Allow the ice machine to produce 2 harvests.
3. Push vend switch button in.
4. Rotor should rotate  $\frac{1}{4}$  turn and stop.
5. Ice will be dispensed from the ice chute.
6. Remove the sink, and check the drain area for leaks. If none, replace the sink.
7. Fill out the warranty registration form and place in the mail.
8. Give the operator the key(s) and instructions on the operation and maintenance of the product. Check that the operator knows who to contact for service and has the product/service manuals for the machines.

**Electrical Sequence:**

Pushing the vend button closes a contact to the gear motor and to the ice door solenoid.

The gearmotor and ice door solenoid will have power and the dispenser will continue to operate as long as the dispense switch is pushed in. This model also has an agitation cycle of 3 seconds every 2 hours. The solenoid does not engage during agitation and no ice is dispensed.





**General Care and Cleaning**

Periodically inspect and clean the ice dispenser to keep it operating at peak performance. Wash the outside of the dispenser with warm water and soap. Rinse off and wipe dry.

**Cleaning and Sanitizing of the Ice Storage Bin:**

The minerals, chlorine and other impurities in the water are rejected from the water during the freeze cycle of the ice machine. These minerals will collect in the storage bin. The ice storage bin should be cleaned and sanitized every 90 days. *Note: This would be a convenient time to clean and sanitize the ice machine*

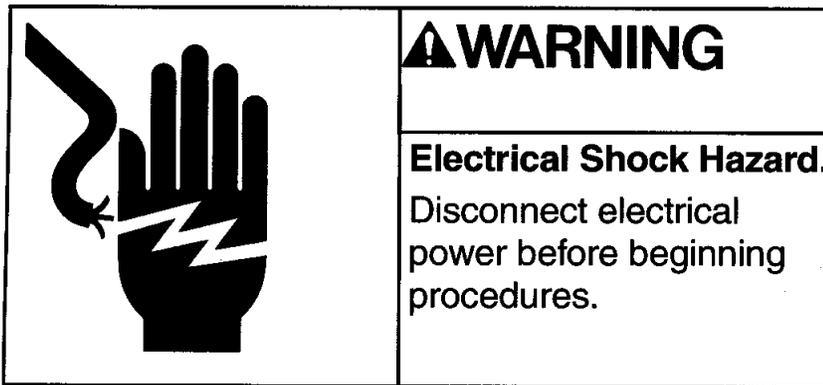
1. Remove all of the ice stored inside the dispenser and shut off the ice machine.
2. Disconnect electrical power to the dispenser and ice machine.
3. Locate key and remove the sink.
4. Remove top front panel (in front of ice machine)
5. Remove the front top panel (above the ice chute)
6. Reach into the opening, locate the large nut securing the wheel to the drive shaft. Remove the nut.
7. Pull the wheel off of the driveshaft and leave it in the dispenser.
8. Mix a solution of 5 ounces ice machine cleaner to 1 gallon of warm (95°F-115°F) water. Wash the entire bin area and the delivery area. Use a clean brush or cloth.
9. Rinse all areas wash with clean, fresh water.
10. Using the ice machine cleaner solution, clean the ice grill, sink, and water pan. Rinse these parts with clean fresh water.
11. To sanitize: Use a locally approved sanitizer. A possible sanitizer: Mix a solution of ice machine sanitizer and water: 1ounce of household bleach to 2 gallons of (95°F-115°F) water. Wash all interior surfaces and the wheel with the sanitizer solution.
12. Use a clean cloth.
13. Allow the parts to air dry.
14. Reassemble the wheel and large nut onto the shaft.
15. Replace all the panels.
16. Reconnect power, be sure the ice machine is switched back on.

	<p><b>⚠ WARNING</b></p>
	<p><b>Electrical Shock Hazard.</b> Disconnect electrical power before beginning procedures.</p>

	<p><b>⚠ WARNING</b></p>
	<p><b>Moving parts in bin will cause injury if hands are in the way.</b> Disconnect electrical power before beginning procedures.</p>

<p>Ice machine cleaner contains acids. These compounds may cause burns. If swallowed DO NOT induce vomiting. Give large amounts of water or milk. Call Physician immediately. In case of external contact, flush with water.</p>	<p><b>⚠ WARNING</b></p>
	

<b>PROBLEM</b>	<b>POSSIBLE CAUSE</b>	<b>PROBABLE FIX</b>
Does not vend.	No ice. No power. Vend switch open. Sink interlock switch open. Ice jams in chute. Front panel not on all the way. Gearmotor open. Ice door does not open.  Drive shaft broken.	Check ice machine. Check power supply. Check/replace vend switch. Check/replace sink interlock switch. Machine is not level. Reinstall front panel. Check/replace gearmotor. Check for power to solenoid. Check linkage from solenoid to door. Check/replace drive shaft.
Leaks water.	Bin drain leaks.	Check bin drain connections and fittings. Check for clogged bin drain tubing.

**Gear Motor**

1. Disconnect electrical power.
2. Locate key and remove the sink.
3. Trace the wires from the gearmotor to the control box and disconnect.
4. Remove large dispenser top panel.
5. Reach into the opening, locate the large nut securing the wheel to the drive shaft. Remove the nut.
6. Remove 4 nuts and bolts securing the gearmotor to the bracket.
7. Pull the gearmotor down and out of the cabinet.
8. Remove the gearmotor from the base.
9. Reverse to reassemble.

**Drive Shaft**

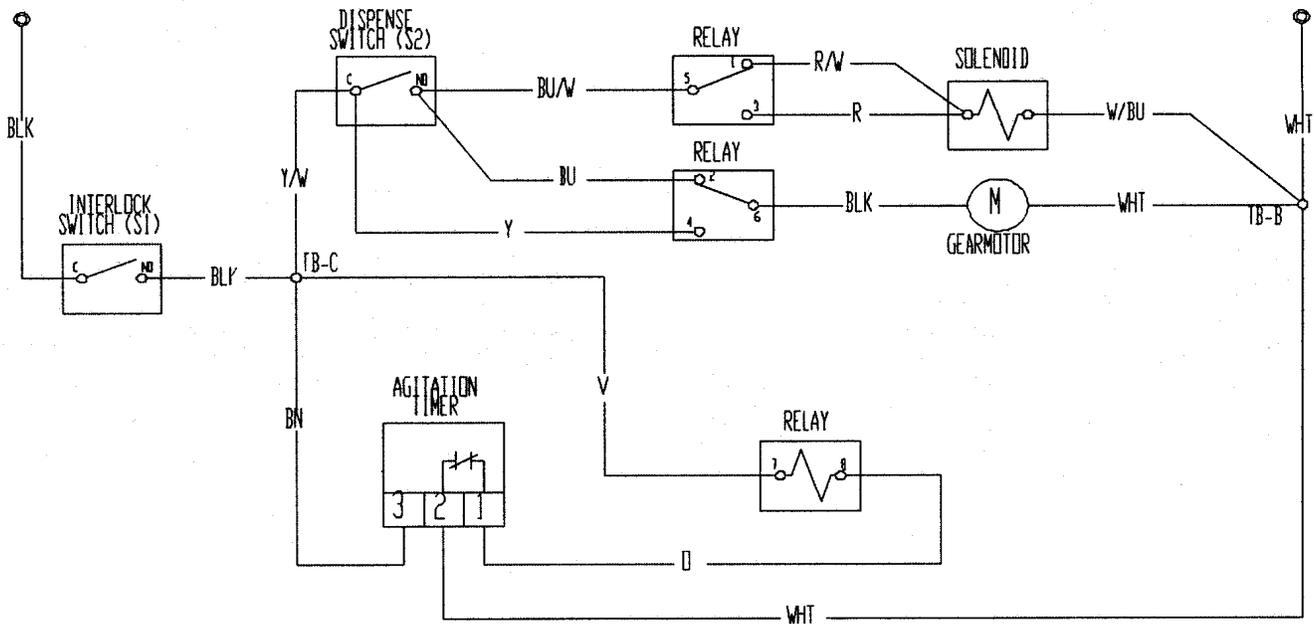
1. Remove all of the ice stored inside the dispenser bin and shut off the ice maker.
2. Disconnect electrical power.
3. Locate key and remove the sink.
4. Remove the dispenser top front panel (in front of ice maker).
5. Remove the dispenser front top panel (above ice chute).
6. Reach into the opening, locate the large nut securing the wheel to the drive shaft. Remove the nut.
7. Disconnect wires at gearmotor.
8. Mark position of cam switch bracket and remove bracket with cam switch from gearmotor.
9. Remove 4 nuts securing gearmotor to cabinet.
10. Pull gearmotor down and out of cabinet.
11. Remove 6 cap screws holding drive shaft housing to cabinet.
12. Pull drive shaft housing from bin.
13. Remove snap ring from end of drive shaft, and tap shaft out of bearings with plastic hammer.
14. Reverse to reassemble.

**Dispense Wheel**

1. Remove all of the ice stored inside the dispenser bin and shut off the ice maker.
2. Disconnect electrical power.
3. Remove ice machine from dispenser.
4. Remove large dispenser top panel.
5. Reach into the opening, locate the large nut securing the wheel to the drive shaft. Remove the nut.
6. Pull wheel of the drive shaft and remove it from the dispenser.
7. Reverse to reassemble.

Wiring Diagram CD220

USE COPPER CONDUCTORS ONLY



**THIS UNIT MUST BE GROUNDED**

**CAUTION:**  
**MORE THAN ONE DISCONNECT**  
**MEANS MAY BE REQUIRED TO**  
**DISCONNECT ALL POWER TO THIS**  
**UNIT**