

# LANDMARK ICE DISPENSERS

## Installation and Service Manual

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### **Contact Information:**

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

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This document contains the original instructions for the unit described.

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**IMPORTANT** - To the user - This manual is a guide for installing, operating, and maintaining this equipment. Please read and maintain this document for service and troubleshooting.

## GENERAL DESCRIPTION

The *LANDMARK* Ice Dispenser consists of an ice storage bin and an ice dispensing system.

*Wilshire LANDMARK ICE DISPENSERS* are designed to dispense any type of hard cube ice, up to one inch square, and will dispense some types of extruded ice. The use of flaked ice and "super cold ice" are not recommended.

Model	Cabinet			Ice Storage
	Width	Depth	Height	Capacity
ID-90 Series	15.00"	21.00"	34.50"	90#



**NOTICE** - PRIOR TO ICE MAKER INSTALLATION: Contact Wilshire Customer Service (800-654-1729) for a top adapter and to verify that the ice maker is compatible with the *LANDMARK*. Incompatible cube size and/or installation of an ice maker without the proper top adapter can cause damage to the dispenser. **FAILURE TO COMPLY WITH THESE REQUIREMENTS WILL VOID THE WARRANTY.**

**NOTE:** When using extruded ice, the agitator motor timer relay must be bypassed. Refer to wiring diagram on page 6.

## UNPACKING AND INSPECTION

The unit was thoroughly inspected before leaving the factory. Any damage should be noted at the time of delivery (no later than 15 days from date of delivery) and immediately reported to the carrier. File the claim with the delivering carrier.

After removal of shipping carton, remove parts from the ice compartment.

## LOCATION REQUIREMENTS

Use a separate 120VAC, 60HZ 1PH, 15 AMP grounded duplex outlet to accommodate each dispenser. Locate the outlet within three (3) feet of the dispenser. Extension cords cannot be used. **ALL ELECTRICAL WIRING MUST CONFORM TO NATIONAL AND LOCAL ELECTRICAL CODES.** (See Wiring Diagrams, FIGURE 1)

The counter must be able to support 250 pounds, which includes dispenser and ice.

## INSTALLING UNIT

With the template provided in the installation kit, mark the outline of the *Ice Dispenser* on the counter surface and location for drain line. Apply a 1/2 inch wide bead of silastic (such as Dow Corning 732) within the dispenser outline. Place the *Ice Dispenser* on top of the silastic. Wipe the excess silastic creating a smooth seal. All holes cut in counter top for product, drain, and electrical lines must be sealed with an acceptable material in accordance with local, state health, and building codes.

Attach the drain hose and clamps to the bottom of the drip pan assembly. Connect the unit to a drain outlet according to state and local requirements.

Place the ice trap in the drain outlet in the ice bin. This holds ice away from drain outlet and allows water to drain properly.

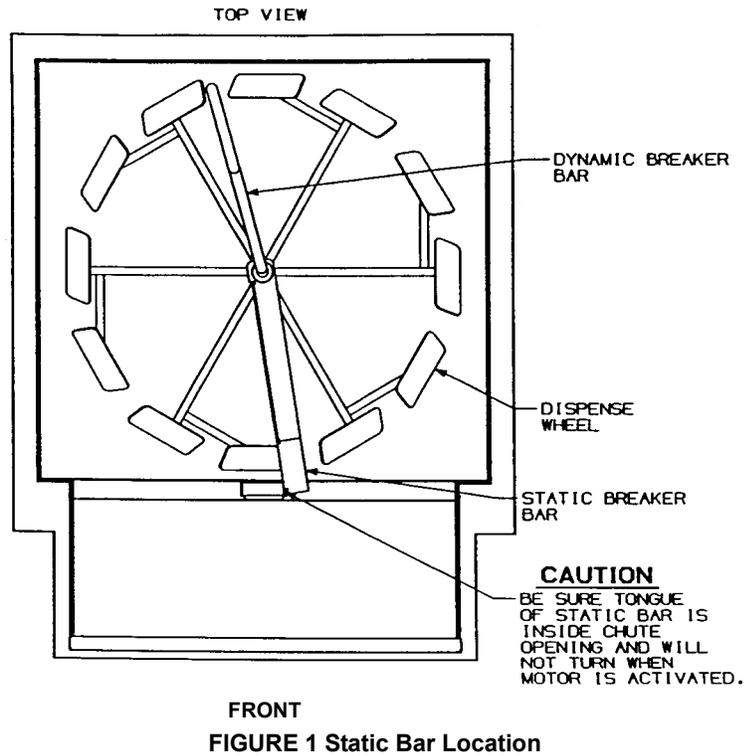
Check connection for leaks.



**IMPORTANT** - SYSTEM MUST BE SANITIZED AS INSTRUCTED PRIOR TO OPERATION. See Cleaning and Sanitizing Instructions.

After all connections are made, system checked for leaks and sanitized, the unit is now ready for operation.

**NOTE:** Static Breaker bar in the ice bin **MUST BE** situated inside the right of the dispense door (as you face the front of the unit) or no ice will be dispensed and damage to the dispense wheel mechanism could result. See Figure 1 for proper orientation.



## ICE GATE ADJUSTMENT

An ice gate is provided to control the dispensed flow rate of ice. The ice gate is mounted on the positioning tab at the end of the static bar. The ice gate may be adjusted for the type and size of ice being used. Once set no further adjustments should be necessary.

Prior to adjusting the ice gate position, be sure to **disconnect power to the dispenser** to prevent the agitator from rotating while adjusting the ice gate.

Fill bin with ice up to the chute to a depth of approximately 6 inches from the bottom of the bin. With a cup held below the ice chute, press the ice dispense button or lever. If the flow rate needs adjustment, disconnect power and remove static bar assembly (see Figure 2). Reposition ice gate to either the *fast*, *medium*, or *slow* position as shown in Figure 1. Carefully reinstall static bar assembly as described in Figure 1.

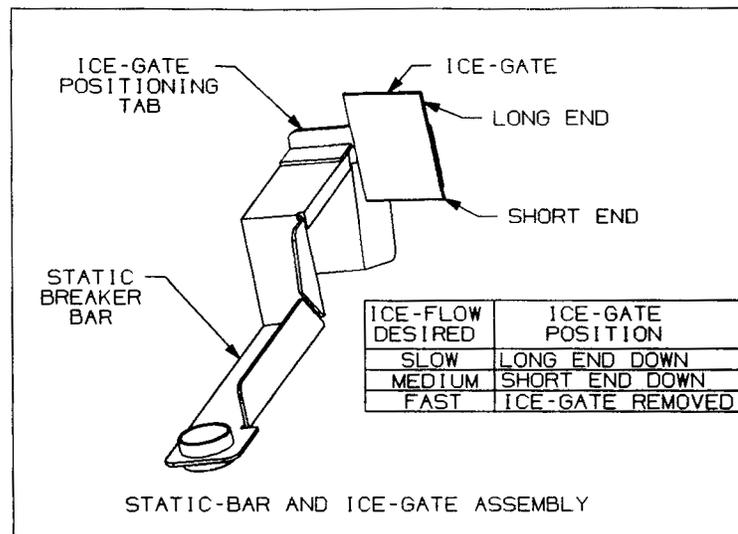


FIGURE 2

## CLEANING AND MAINTENANCE



The dispenser must be cleaned and sanitized after installation and, thereafter, as required by state and local health departments, or every three months minimum.

Continuous maintenance of this unit is a basic requirement for proper operation and sanitation, including all support equipment utilized in the daily operation of this equipment.

## CLEANING EQUIPMENT AND SUPPLIES

- Recommended cleaner: A. C. Fergusson Company #3391 or any caustic-base (low sudsing, non-perfumed, easily rinsed) detergent solution which provides a minimum 2% sodium hydroxide. The solution should be prepared in accordance with the manufacturer's instructions. Solution temperature should be between 90 to 110° F. Temperatures in excess of this can cause internal damage to the dispensing valve components.
- Recommended sanitizer: A. C. Fergusson Company *SuperChlor* or any sanitizer which provides a minimum of 200 parts per million (200 milligrams per liter) of available chlorine. Solution temperature should be between 90 to 110° F. Temperatures in excess of this can cause internal damage to the dispensing valve components.
- Containers for cleaner and sanitizer solutions
- Clean, nonabrasive cloths
- Bucket
- Small Brush

## CLEANING AND SANITIZING PROCEDURE

The ice bin should be thoroughly cleaned and sanitized at least once every month or as required by state and local health departments.



**WARNING** - When using cleaning fluids or chemicals, rubber gloves and eye protection should be worn.

1. Disconnect electrical power to dispenser.
2. Remove manual ice fill lid.
3. Remove the ice chute.
4. Remove dispense wheel by lifting out of bin.
5. Using a soft brush, wash down the sides of the ice bin and the surface of the aluminum cold plate and motor shaft with cleaning solution.
6. Thoroughly rinse the cleaning solution from the ice bin.
7. Using a soft brush and sanitizing solution, thoroughly brush all surfaces.
8. Using a soft brush and cleaning solution, wipe all ice bin components and rinse thoroughly.
9. Using a soft brush and sanitizing solution, and taking parts in order of replacement in bin, thoroughly brush all parts and reinstall them in ice bin.
10. Connect electrical power to dispenser and refill with ice.

**NOTE: Static Breaker bar in the ice bin must be situated inside the right of the dispense door or no ice will be dispensed.**

## TROUBLESHOOTING GUIDE

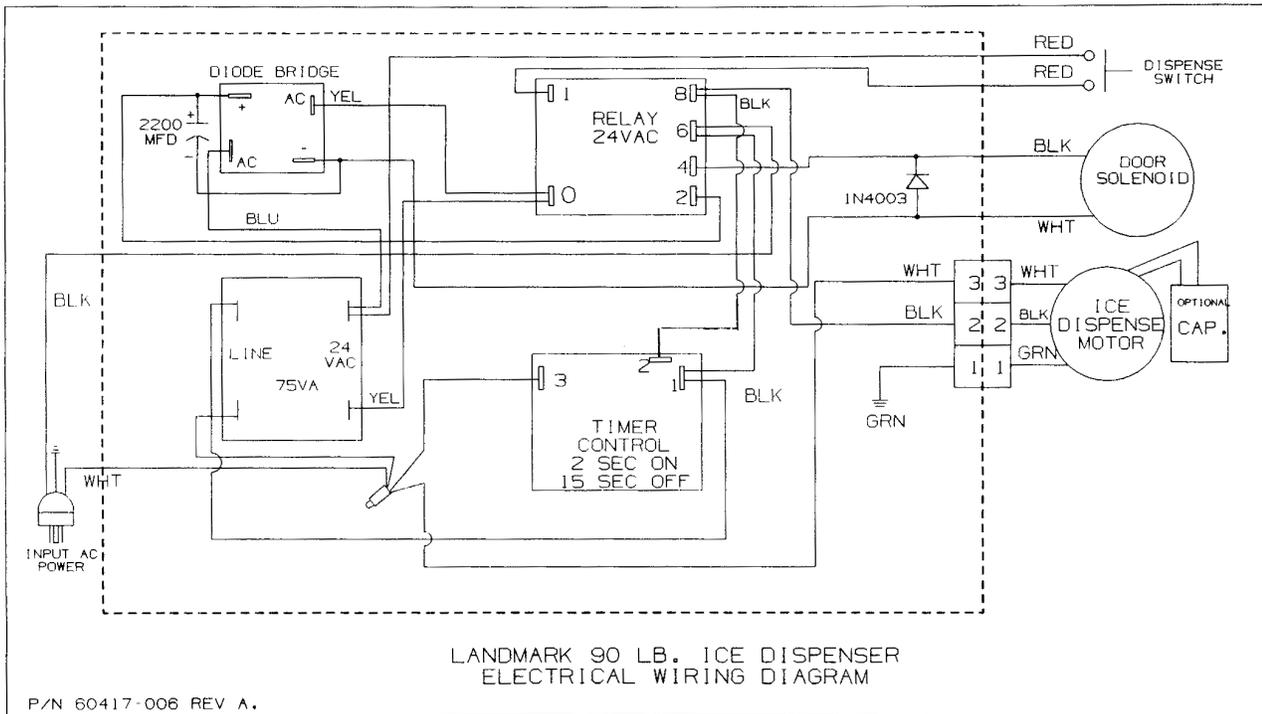
The following is provided to aid in correcting ice dispensing system problems. Refer to individual accessory manuals for troubleshooting help for other components.



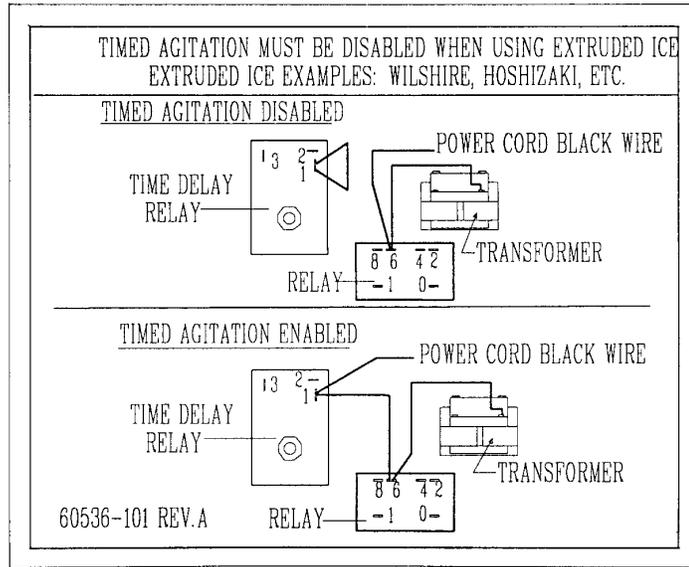
**WARNING** - Disconnect electrical power before attempting any repairs.

PROBLEM	POSSIBLE CAUSE	SOLUTION
<b>Ice Dispenses Continuously</b>	Misaligned door assembly or solenoid	Adjust solenoid
	Misaligned micro switch	Adjust micro switch
<b>Ice Dispenser Door will not close</b>	Ice jammed in chute	Adjust bridge or when manually filling, break up clusters.
	Solenoid plunger dragging or catching	Adjust solenoid.
<b>Dispenser will not dispense ice</b>	No Power	Check electrical connections.
	Solenoid Malfunction	Replace solenoid.
	Dispenser overloaded with ice	Remove ice from dispenser until unit will operate.
	Motor not working	Replace motor or motor start capacitor.
	Stationary bar is not in correct location	
	No ice in bin	Fill bin with ice. If field installed ice maker in use, turn on or repair.
	Gearmotor thermal overload	Reset red button underneath gearmotor.
<b>Excessive Clustering or Bridging of ice</b>	Loaded ice not broken up	Break ice clusters before manually filling bin.
	Extremely low usage of dispenser	Install bin thermostat to lower ice level.
	Static Bar not in position	Reposition, see Figure 1.
	Excessive water spilling from field installed ice maker	Adjust ice maker to eliminate spillage.
	Poorly adjusted field installed ice maker	Adjust ice maker to eliminate large waffle shapes.

PROBLEM	POSSIBLE CAUSE	SOLUTION
<b>Dispensing Crushed Ice or Reduced Dispensing Speed</b>	Water spillage from field installed ice making machine	Adjust ice maker.
	Bridge of ice sheet is too thick	Adjust field installed ice maker.
	Ice clusters in bin	Break up clusters.
<b>Irregular Sound</b>	Shaved ice clusters in bin	Remove clusters.



**FIGURE 3** Wiring Diagram



**FIGURE 4 Wiring Diagram - Timed Agitation**





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