

# Cornelius

## Installation Guidelines for Ice Settings



A Marmon / Berkshire Hathaway Company



## Four commonly overlooked key factors when installing or servicing Ice Drink Dispensers

1. ON / OFF cycle ice agitation timer adjustments can accommodate a variety of ice types
2. Ice chute restrictor plate can be used to adjust ice dispense rate
3. Installation of a bin stat or similar control should be used to lower the ice level in the dispenser bin
4. It is necessary to secure and seal the ice maker adapter plate and the ice maker to the dispenser



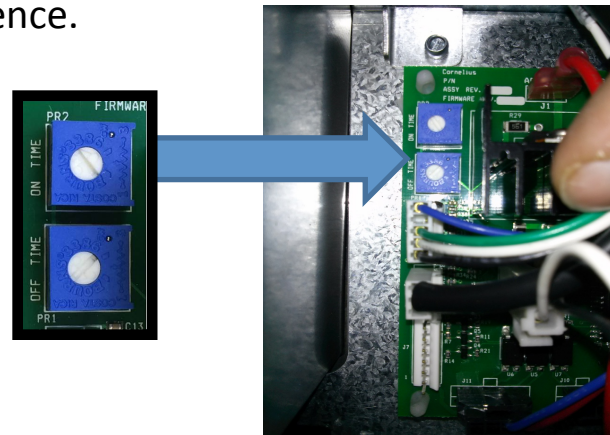
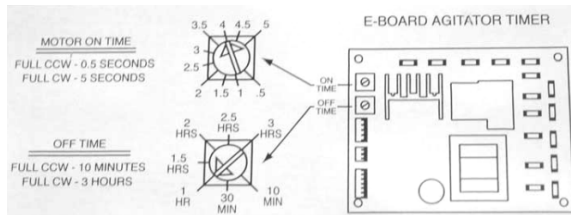
# ON/OFF Cycle Agitation Timer Setting Guide

Ice agitation can be adjusted for non-dispense hours

SUGGESTED SETTINGS		
Manufacturer	ON setting	OFF setting
Soft chewable ice	0.5- 1 seconds	3 hours
Hard Ice (cubed) Cornelius Factory Default	4 seconds	1 hour

Agitator board adjustments (located behind the merchandiser light panel).

Picture shown: Factory setting **ON** set to 4 seconds and **OFF** set to 1 hour for reference.



# Ice Diverter - Used for Soft Ice Only

1. Remove ice chute portion and gate restrictor
2. Use a 3/8" I socket or nut driver to remove the back half of the ice chute after removing the front cover.
3. Install:
  - Diverter plate against the hopper with flange extending inside storage hopper (See image 1)
  - Restrictor plate
  - Gasket
  - See page 5 for restrictor plate setting

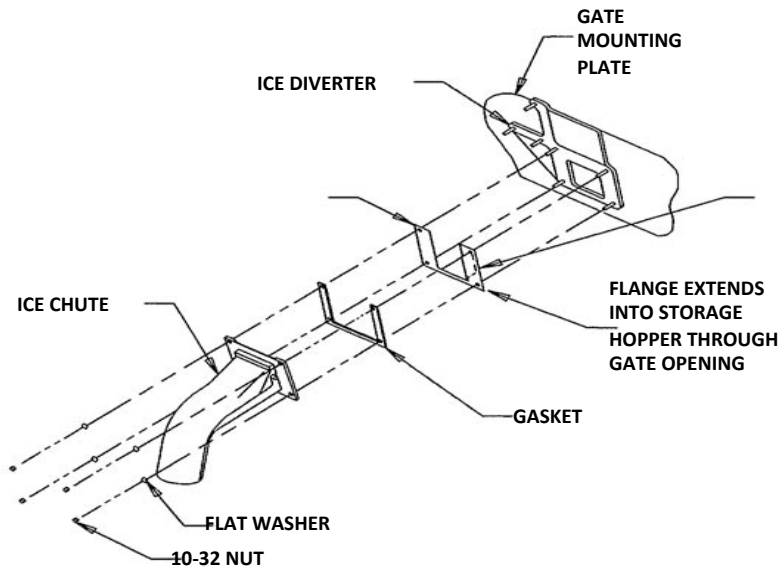
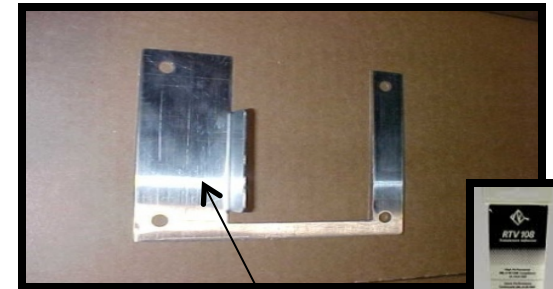
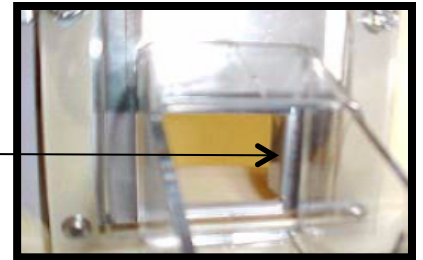


Image 1



APPLY RTV TO THIS SURFACE TO SEAL TO HOPPER GATE MOUNTING PLATE



# Variable Ice Opening for Restrictor Plate

The ice restrictor plate allows for proper ice flow adjustment of any type ice

Ice Type	Setting
Cube ice	Factory setting preset at 1.5 inches
Chewable Soft ice	Set restrictor full open
Large cube ice	Adjust to desired flow
Small cube ice	Adjust to desired flow

## Ice Chute Restrictor Plate Adjustment:

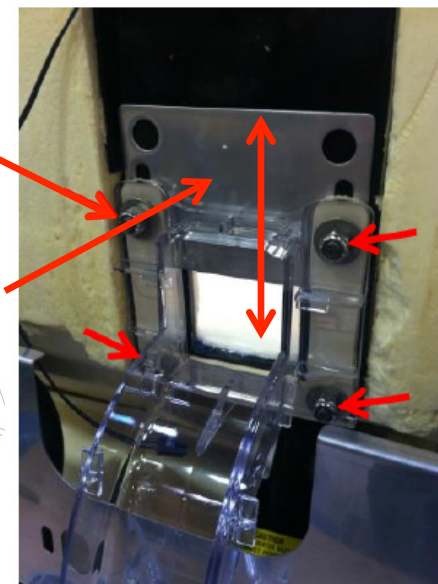
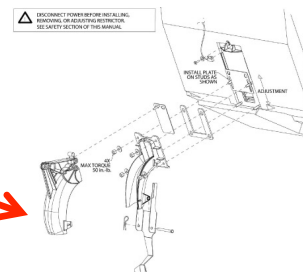
- Remove ice chute cover
- Loosen 4 nuts at ice chute
- Push restrictor plate up for more flow or down for less flow
- Tighten and torque nuts in a crisscross pattern to
  - ED models – 12 in/lbs
  - IDC models – 32 in/lbs

**Note: Failure to torque properly may lead to damage if too tight or poor gasket seal/water leaks if too loose**

Ice Chute Cover

4 Nuts used

Restrictor Plate



See Soft Ice Guide on p.7 for additional information

# Installation of a Bin Stat/Lowering the Ice Level

Some ice makers use an “electronic eye” to sense ice height in the bin, while others use thermistors or mechanical bin stats. Whenever utilizing a top mounted ice maker, a ‘bin stat’ is required for proper ice drink dispenser installation. See matrix for suggested settings.

Ice type	Height below top of Ice Bin
Cubed / Hard Ice	2 inches
Soft Chewable Ice	4 – 6 inches
Low volume accounts	Lowered to maintain Ice freshness

## Examples

**Electrical Type Stat**



**Coil Type Stat**



**Capillary Type State**





# Sealing and Securing of Ice Maker to Dispenser

Secure and seal the ice maker adapter to the dispenser top. Then mount, secure and seal the ice maker to the adapter. This assures there will be no movement of the units or leakage around the dispenser bin edge. See below pictures of dispenser issues if NOT utilizing a bin stat or NOT sealed to dispenser as required.

**Example: No Bin stat / Ice too high in Bin**



**Effect: Adapter not sealed results in external mineral deposits**



## [Click here for Cornelius Ice/Beverage Combo Soft Ice Dispensing Tips](#)

### Important Notes:

#### **Ice quality may affect performance**

#### **Flaked Ice should never be used in any Ice Drink Dispenser**

- ❗ Ice used directly from a freezer may cause damage to an Ice Drink Dispenser. Cornelius does not recommend the use of ice from a freezer. If ice from a freezer is used it needs to “slightly”, warm up in temperature, until the ice cubes no longer stick together. Remember, freezer ice is typically  $\sim -5^{\circ}\text{F}$ , whereas ice made from an Ice Maker is  $\sim 32^{\circ}\text{F}$ .
- ❗ Water quality may affect performance. If the water used to make the ice has too many minerals, the Ice will be softer and may breakdown in the Bin due to agitation.
- ❗ If the ice bridge thickness setting is too thin it may cause ice breakdown in the bin.
- ❗ If the ice bridge thickness is too thick it may cause agitator damage, clogging ice chute and affect drink quality.

