

# INSTALLATION BEST PRACTICES MANUAL

## CORNELIUS IDC255 DISPENSER W/SCOTSMAN NME SERIES NUGGET ICEMAKER & CORNELIUS ED 300 AND DF 300 DISPENSER W/SCOTSMAN NME SERIES NUGGET ICEMAKER

This manual describes key installation best practices for installing a Scotsman NME Series nugget icemaker on a Cornelius IDC255 or ED/DF300 Dispenser. Following these instructions helps to improve the quality of the ice dispense function and minimizes ice balling in the hopper.

### IDC255

#### Beverage Dispenser Installer:

1. Be sure ice slide is installed in the IDC dispenser hopper, as shown in Figure 1.



Figure 1

2. After the ice slide is installed, assemble the adapter onto the dispenser.
3. Set the restrictor plate on the IDC dispenser to the full open position. This plate is located behind the ice chute and is positioned to adjust the ice drop opening from the hopper. To maximize the opening, raise the restrictor plate to the full open position, as shown in Figure 2, or remove the restrictor plate entirely.

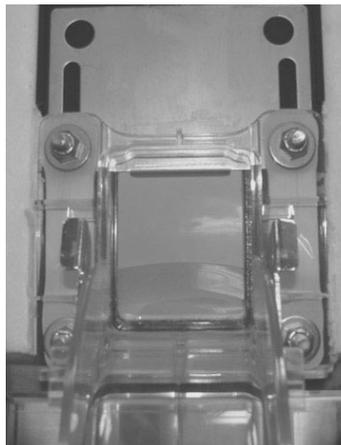


Figure 2

- Adjust the off-cycle agitation (stir time) on the IDC dispenser to a 1/2 second on, three hours off. These adjustments are made on the control board within the IDC dispenser (Figure 3). To set the "on" time, rotate the top potentiometer to the full counter-clockwise position. To set the "off" time, rotate the bottom potentiometer to the full clockwise position. These settings will minimize the agitation time, resulting in less damage to the ice nuggets.

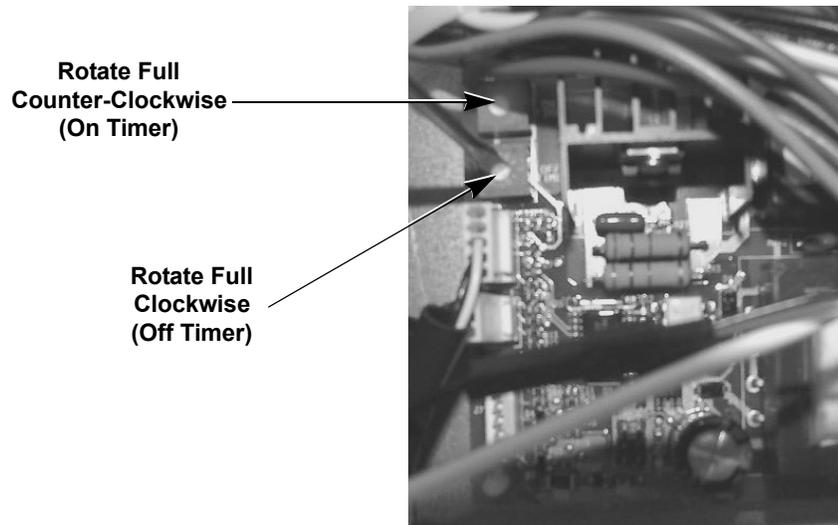


Figure 3

## Ice Machine Installer

- Place the machine onto the dispenser adapter.
- Install the bin thermostat from the Scotsman kit KDIL-N-CFF onto the NME icemaker, as shown in Figure 4. The bin-stat bracket must be positioned in-line with the icemaker drop zone and the cap tube must be routed four inches below the bottom surface of the icemaker. Refer to the kit instructions for additional installation details.

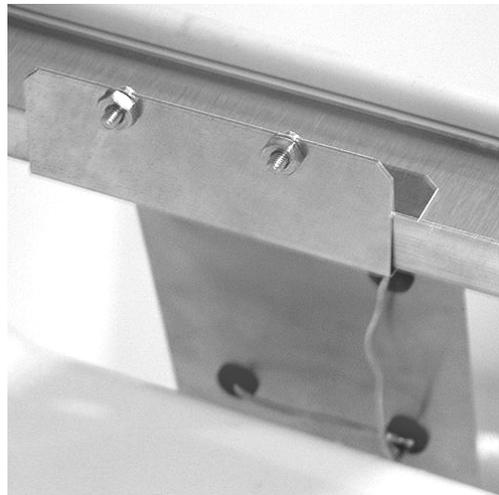


Figure 4

## CORNELIUS ED 300 AND DF 300 DISPENSER

### Install ED/DF 300 Compressed Ice Agitator Kit p/n 629088644

#### New Agitator for 'Compressed' Ice on ED/DF 300 Units

Kit contains – New Agitators, Ice Diverter kits (with RTV), and Instructions

#### RECOMMENDED TOOLS

- #2 phillips head screw driver
- Long screwdriver or 2x4 board
- Knife or cutting tool
- 11/32 & 3/8 nut driver or equivalents

#### Other Items - Should be available at store location upon request

- Paper towels
- Step ladder
- 5 gallon bucket or equivalent

**NOTE:** It is critical that there be at least 6" clearance behind icemaker to allow it to be moved back this distance. If icemaker is hard plumbed, disconnections should be made to insure minimal damage to icemaker connections. Turn off ice machine at this time.

1. Remove manual ice fill lid from Icemaker adapter.
2. Remove ice baffle from icemaker adapter using 11/32 nut driver to remove 'white' acorn style nuts (see FIGURE 5). Take care to not drop washer and nuts into hopper area.
3. Dispense ice out of hopper into bucket via ice chute to empty hopper of ice.
4. Using bucket – fill with 'warm' water and melt remaining ice in hopper area.



FIGURE 5. Ice Baffle

**CAUTION:** Dispensing unit should be unplugged at this time to ensure that 'off cycle' agitation does not occur while accessing interior hopper area. Ice machine should be unplugged as well.

5. Locate and remove sheet metal screws securing icemaker adapter on sides of unit.
6. The adapter with icemaker on top needs to be slid back a minimum of 6". There should be an 11-1/2" opening from front of adapter plate to inside of front of hopper (see FIGURE 6).

**NOTE:** It may be necessary to use a long screw driver or 2x4 board to pry up the adapter if it has been in place for a long period of time. This is due to the adapter gasket having a tendency to stick to the top of the hopper surface or silicon being added between the gasket and hopper surface at the time of install. Care should be taken to protect all surfaces to minimize damage during this step.



FIGURE 6. 11-1/2 Inch Opening

7. Remove agitator cover retaining o-rings, then remove agitator covers. Agitators can now be removed from motor shafts. Maneuver agitators (see FIGURE 7) so one upright protrudes from the 11-1/2" opening – agitators can now easily be removed from hopper.

Hopper area should be inspected at this time.

Note any possible mineral buildups and clean accordingly.



**FIGURE 7. Remove Old Agitator**

8. Locate new agitators (similar to the ones removed, but they have 2 extra wings on the arms that do not have uprights - see FIGURE 8). There is a RH (right hand) and LH (left hand) agitator. The RH agitator is identified with a single hole in each upright arm and the LH agitator does not have any holes in the upright arm. The RH agitator gets installed on the right side of the unit and the LH agitator on the left side (when looking at the front of the dispenser. Position as shown (see FIGURE 9) which enables easy maneuvering into hopper area.



**FIGURE 8. Standard Agitator (Left), New Agitator (Right)**



**FIGURE 9. Install New Agitator**

9. Once in hopper area, reinstall agitators onto their motor shafts. Reinstall agitator covers and secure with the agitator cover retaining o-rings.
10. Slide icemaker adapter plate and ice maker into original position. Secure to sides of dispenser with screws removed in step 5.
11. Check seal between icemaker and adapter plate. Replace any broken seals with RTV (supplied in kit).
12. Reinstall ice baffle to icemaker adapter using 11/32 nut driver and manual fill lid.
13. Check to see that the ice chutes have the ice diverter kits installed. If they are not installed, install the ice diverter kits (included in this kit). There are two diverter kits, one is for the RH ice chute (part number 629088564) and one for the LH ice chute (part number 02394). Be sure to install the correct diverter kit on the correct side of the ice chute.

**NOTE: Ice gate restrictor may be left installed. The recommended setting is 1-1/2" from bottom.**

14. Remove merchandiser to gain access to electrical box. Loosen two top screws to open electrical box cover. Reset agitation timer to 2 seconds ON and 3 hours OFF. Close electrical box cover, reinstall the two screws, and reinstall merchandiser.
15. Plug in both dispenser and ice machine. Turn on ice machine.

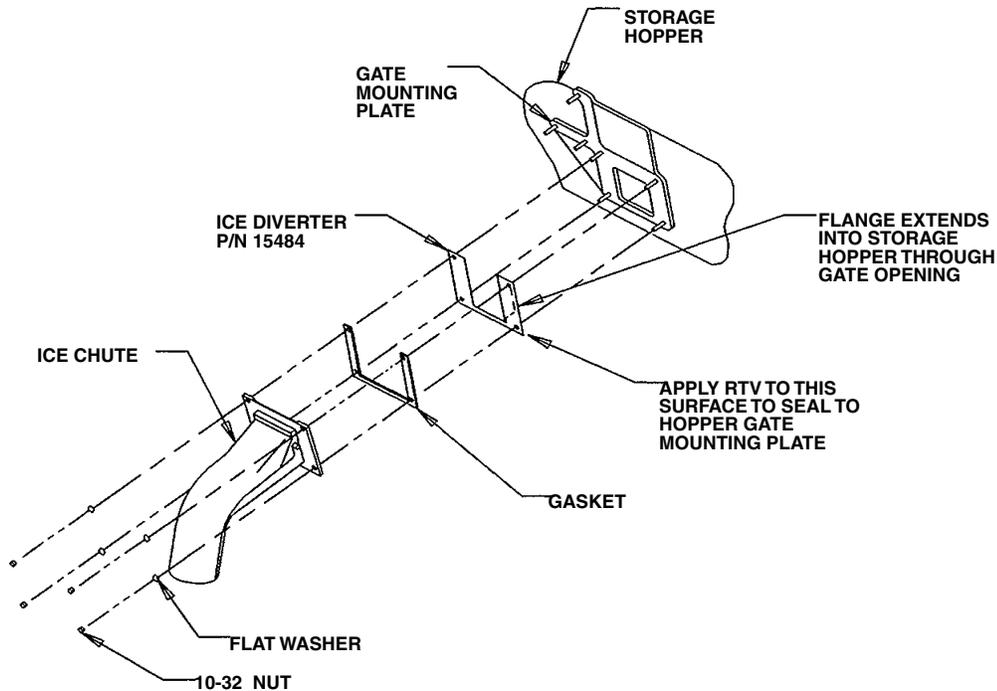
**NOTE: It is recommended that a minimum of 45 minutes elapse after turning on the ice machine before dispensing ice or product. This will ensure that sufficient ice has filled hopper and cold plate areas.**

Unit should now be ready to dispense ice/product for customer use.

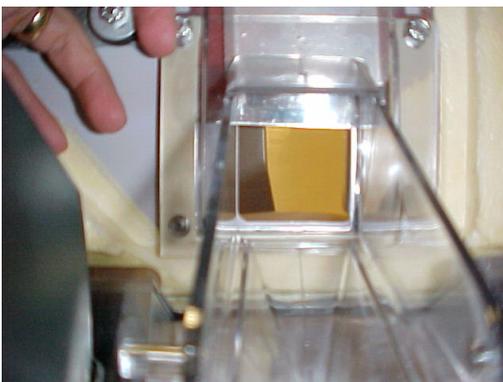
## Install ED/DF 300 Ice Diverter Kits (p/n 02394, LH and p/n 6209088564, RH)

**NOTE:** For dispensing Scotsman NME654, NME954 and NME 1254 “Nugget” style ice and Cornelius WCC500 and WCC700 “Chunklet” style ice cubes.

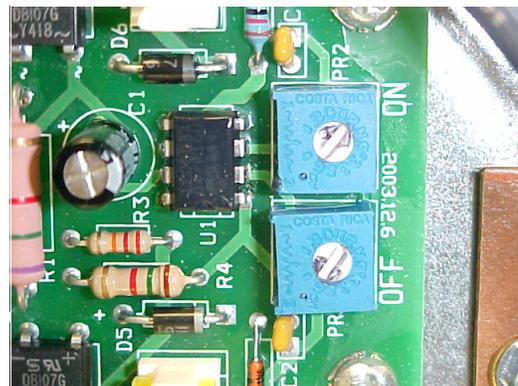
1. Disconnect power to dispenser.
2. Remove upper front panel/merchandiser from dispenser.
3. Remove ice chute portion and gate restrictor.
4. Install ice diverter as shown (see Figure 10) and reinstall the gate restrictor removed in previous step. Gate restrictor should be installed in ‘front’ of ice diverter. It is critical the opening be set a minimum of 1 ½” (see Figure 11).



**Figure 10. Exploded View of Ice Diverter Installation**



**Figure 11. Gate Restrictor with 1 ½” Opening**



**Figure 12. Timer Board Settings Reset**

5. Remove screws securing white reflector panel and gain access to electrical box. Locate timer board and reset agitation timer to 2 seconds ‘ON’ and 3 hours ‘OFF’ (see Figure 12).
6. Re-install front panel and plug unit back into outlet.  
Unit should now be ready to dispense ice for customer use.

## Ice Machine Installer

1. Place the machine(s) on the dispenser adapter. If installing one icemaker only, install it off center to either side to improve performance. If installing two icemakers, install them as far off center as the adapters and icemakers allow.
2. Install the bin thermostat from the Scotsman kit KDIL-N-CFF onto the NME icemaker, as shown in Figure 13. The bin stat bracket must be positioned inline with the icemaker drop zone and the cap tube routed four inches below the bottom surface of the icemaker. Refer to the kit instructions for additional installation details.

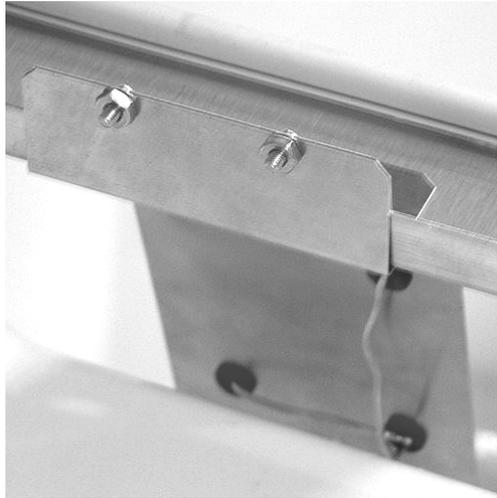


Figure 13