HOSHIZAKI AMERICA, INC.
SERVICE BULLETIN

SB00-0001
July 31, 2000

Subject: NEW STYLE BIN CONTROL FOR KM-1300NRF MODEL.

The new KM-1300NRF model has been released for mass production and will reach the field soon. This model is 42 inches wide and is specifically designed for large dispenser applications. The bin control was changed to work properly with the dispenser application.

The standard KM bin control is a line voltage thermostatic switch that will shut the unit down within 6 ~ 10 seconds after ice contacts the bulb throughout the entire cycle. The new bin control is a low voltage, capacitive proximity sensor that connects through a relay to the red K-4 connector on the control board and senses mass within its proximity. It operates a relay to supply a specific resistance to the K-4 connector to shut the unit down if ice comes within ½ ~ 1 inch of the sensor end. The switching resistance is included as part of the K-4 connector wire assembly. The resistance to start the unit is 5.6 k-ohms and 15.8 k-ohms will shut the unit down. Shut down will occur within 3 ~ 5 seconds, **only within the first 5 minutes of the freeze cycle**. If ice comes within ½ ~ 1 inch of the sensor after the first 5 minutes of the freeze cycle, the unit will complete the freeze cycle, complete the harvest cycle, and shut down at the end of harvest.

In order for the new bin control to work, dip switch number 7 must be in the ON position. Using the red K-4 connector and turning on dip switch number 7 will add two additional control board alarms to the board operation.

*You will get **4 beeps** every 3 seconds if the connection between K-4 has a short circuit.

*You will get **5 beeps** every 3 seconds if the connection between K-4 has an open circuit.

In either case, check the connections and replace the bin control wiring harness if necessary. To reset the safeties, depress the white alarm reset button with the power supply ON.

****BIN CONTROL TEST:** The new bin control mounts in the unit similar to the standard thermostatic control. To test the control, allow the unit to cycle into freeze for approximately 1 minute and hold your hand on the sensor. The unit should shut down within 3 ~ 5 seconds. When you remove your hand, the unit should restart in the 1 minute fill cycle within 3 ~ 5 seconds.

Note: The unit will not operate if the safety plug is not plugged in.