



HOSHIZAKI AMERICA, INC.

SERVICE BULLETIN

SB07-0003

June 6, 2007

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Subject: KM-650MAH Bin Control Change

The KM-650MAH with serial auxiliary code S2 will be produced with a mechanical bin control and will utilize the new tan "G" control board. This production lot is using the new control board and the mechanical bin control used on the KMD model as an initial implementation to the field. Additional models will follow later.

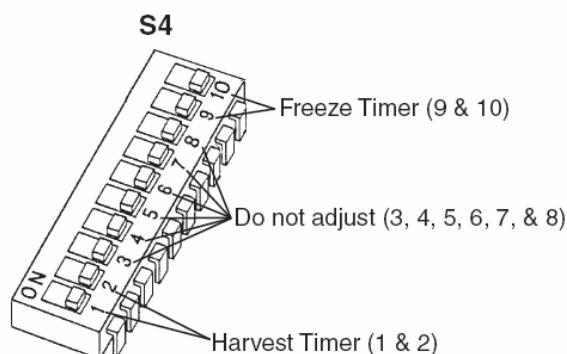
The following parts are used on this unit and should be ordered if replacement is necessary...

Description	Part Number	Description	Part Number
Control Board	2A3792-01	Bin Control Switch	464574-01
Wiring Label	3A4524-01	Wire Harness	4A2200G04
Manual Label	3A3072-01	Switch Mount	3A4463-01

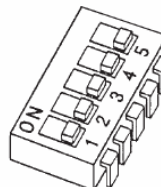
G Control Board: The dip switches on the G board are different from the E board. Note that dip switch # 7 has a different function on this board. The only adjustment that should be made on the G board is to lengthen the Harvest Timer (1 & 2) to improve the built in cleaning feature. The factory setting for the ten dip switches on this model are 1, 2, 3, 4, 7, 8, 9 & 10 - OFF.

* Dip Switch
1 & 2 extend
the flush at the
end of harvest.

Dip Switch Setting		Time (Seconds)
No. 1	No. 2	
OFF	OFF	60
ON	OFF	90
OFF	ON	120
ON	ON	180



S5 (do not adjust)

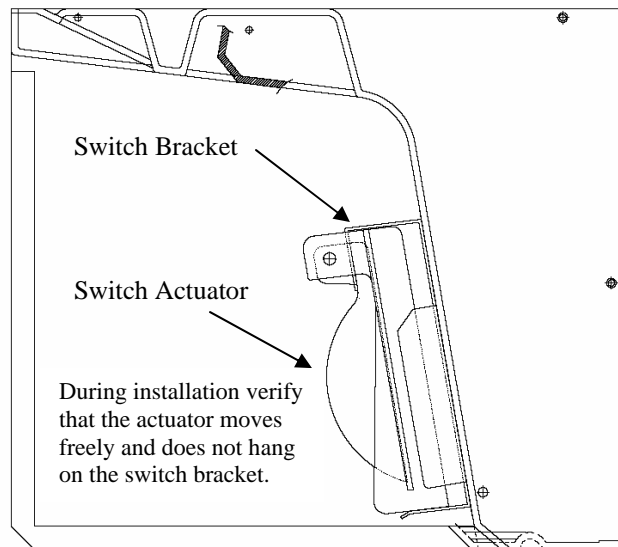


There are additional switches on a separate block labeled S5. These switches, 1~5 are all OFF for this application and should not be adjusted.

Mechanical Bin control on KM-650MAH

The mechanical bin control assembly is located in the same area as the original thermostatic bin control bulb. A switch mount plate is attached with four thumbscrews.

- When no ice is contacting the switch actuator, the magnetic switch is closed calling for ice production. This energizes the green LED on the G control board marked BC CLOSED.
- When the bin is full, ice pushes the actuator towards the right and opens the magnetic switch. This lights the yellow BC OPEN LED.



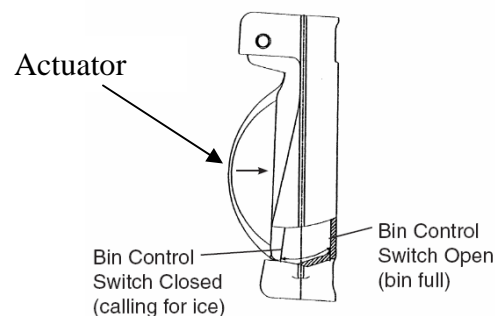
KM-650M Base & Ice Drop Zone.

Operation: The mechanical bin control is connected to the red K4 connector on the control board through a wiring harness. This harness is simply a connector wire. The K4 connector on the G board senses an open and closed circuit depending on the position of the actuator.

The mechanical bin control will only shut the unit down during the first 5 minutes of the freeze cycle. When the actuator is pushed to the right during the first 5 minutes of the freeze cycle, the yellow LED will light and the control board will shut the unit down within 15 seconds. If the mechanical control actuates and remains in the right hand position after the first 5 minutes of the freeze cycle, the yellow LED will light and the control board will shut the unit down after the next harvest cycle is complete.

Checkout: Check the mechanical control by watching the green and yellow LEDs as you move the actuator. You can also check the mechanical control using an ohm meter:

Disconnect the red K4 connector and check the control for a closed circuit when the actuator is in the normal position (swings to the left). You will read an open circuit when the actuator is pushed to the right position.



Note: This is a new control for the KM-M model. If you have any issues with this control application or operation, contact Hoshizaki Technical Support at 800-233-1940 immediately.