

# Instructions

## Installation and Use of the Vari-Smart Control

Scotsman's Vari-Smart Ice Level Control is an optional add on electronic device that can be applied to most Prodigy models. It can be used:

- With the standard controller
- With the standard controller and the SmartLock system (KSL)
- With the standard controller and the Smart-Board (KSBU)
- With the standard controller, and both the KSL and the KSBU

Kit Contents:

- Control board w/knob
- Sensor, sensor housing, and cable
- Label
- 2 Screws

Vari-Smart installation:

1. Depress and hold the Off button until the machine shuts Off (Status light will go out).
2. Disconnect electrical power from the ice machine.
3. Remove front panel.



**KVS Kit**

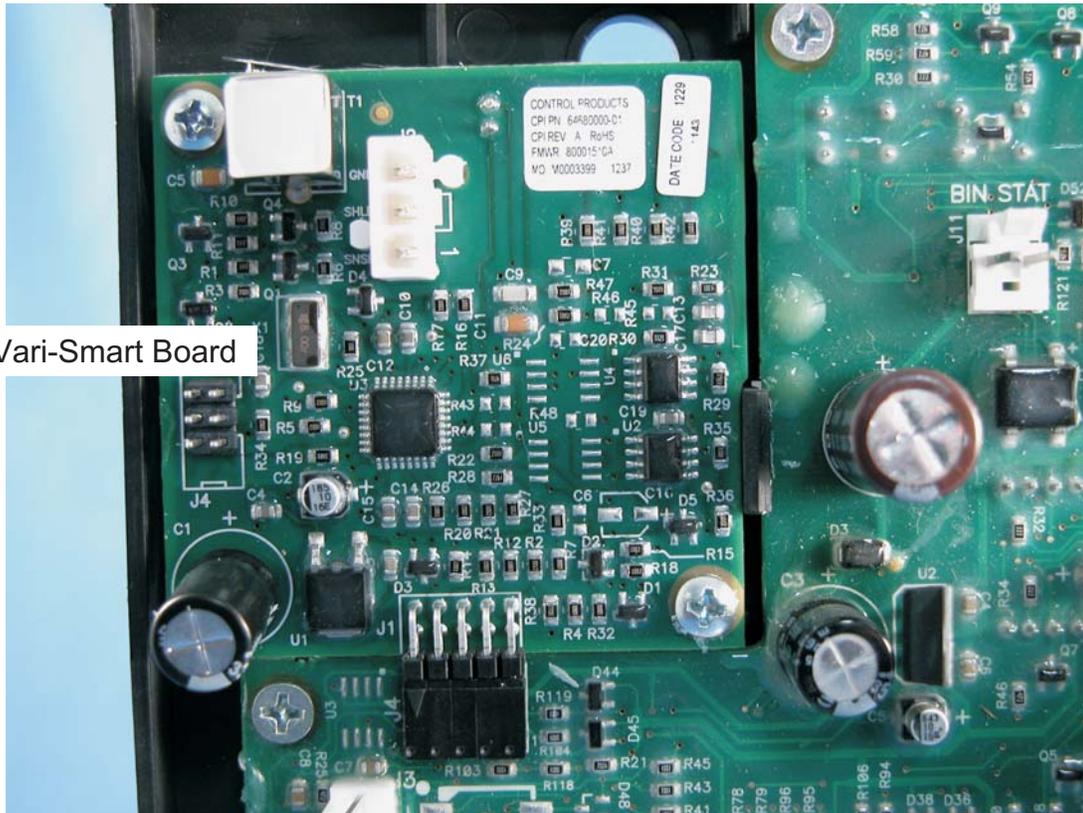
4. Locate blank part of controller label in the upper right corner of the control box door. Score perforations with knife, lift up top corner of label and peel the blank portion away from the control box cover up to the perforations. Flex several times and remove that part of the label from the control box cover.



5. Attach supplied label to control box door in place of the section removed in step 4.

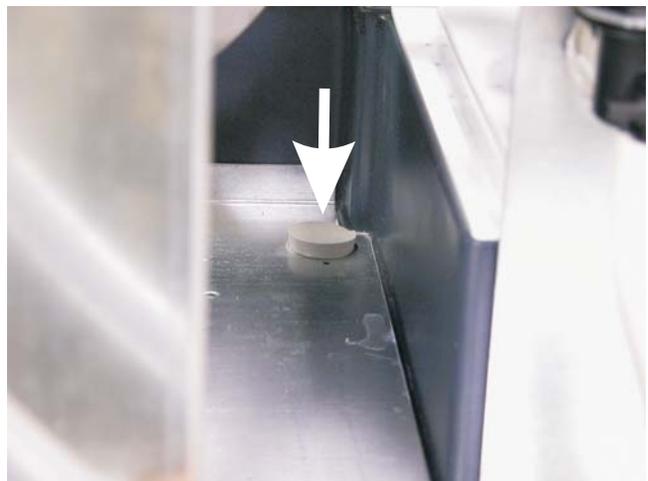
6. Open control box door.

7. Remove knob from controller if on board.
8. Insert pins of Vari-Smart control board into connector J4 (cuber) or J6 (nugget or flaker) of controller.
9. Secure Vari-Smart board to control box door with the two provided screws.



**Installing Vari-Smart Board**

10. Close control box door.
11. Attach knob to shaft of the control.
12. Locate sensor mounting hole in base of machine. The hole is located behind the reservoir and has a foam plug in it. Remove the plug. Wipe area around plug to remove dust and dirt.



**Foam Plug In Sensor Location**

13. Locate sensor and wire from kit. Peel adhesive cover from sensor mount.

14. Position sensor in a hole in the base of machine. Press into place. Be sure sensor mount fits tight against the sheet metal.

15. Open control box door. Route connecting wire through control box snap bushings to controller.

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**Note: Route connecting wire away from items like the fan blade, discharge tubing and crankcase heater.**

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**Step 12**

16. Connect sensor wire to Vari-Smart board, terminal J2.

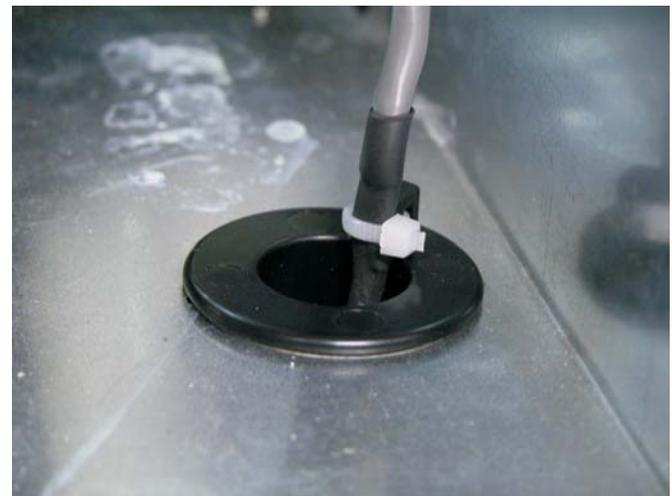
17. Close control box door. Secure with original screw.

18. Switch power on.

19. Rotate adjustment knob to the desired position. See the next page.

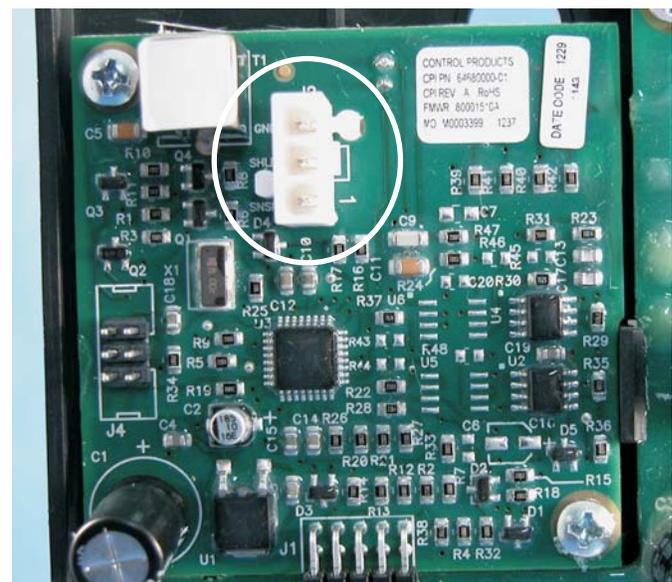
20. Reconnect power.

21. Push and release the On button to restart ice making.

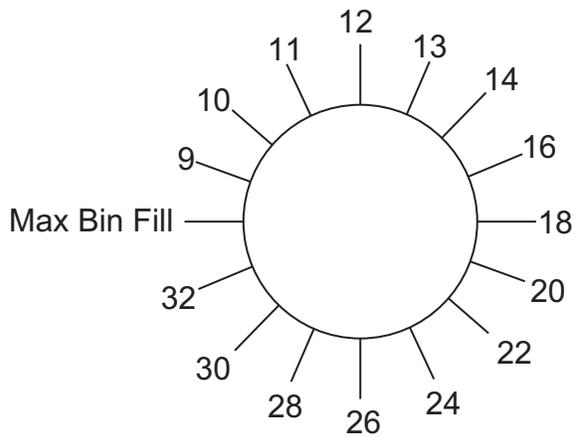


**Step 13**

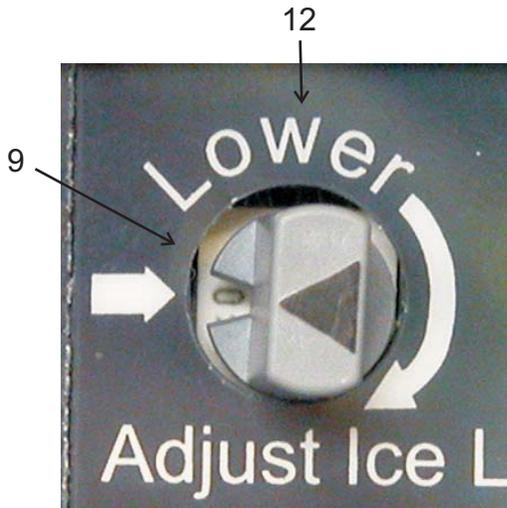
22. Return all panels and covers to their original positions. Secure them with the original screws.



**Step 15**



**Ice level Control Positions**



**Vari-Smart Adjustment Knob shown arrow-to- arrow (max full)**

**Ice Level Adjustment - original label**

- Arrow on knob indicates ice level setting.
- Normal dispenser settings are between the 9 and 12 as shown.
- Label arrow to knob arrow is maximum bin full, no lowering of ice.
- Positions clockwise from 12 will lower the ice further, see Ice Level Control Positions.



**Graphic Label Change late 2011**

**Ice Level Adjustment - new label**

- Arrow on knob indicates ice level setting.
- Normal dispenser settings are between the green arrows on each side of Norm.
- Yellow arrow is maximum bin full, no lowering of ice.
- Positions clockwise from Norm will lower the ice further until Min is reached.
- White arrow is minimum ice (32).

**Notes:**

Bin full light will be ON when the control senses a height of ice that is more than it is set for. A cubed ice machine might make another batch of ice after sensing that the bin is full.

**To adjust:** Rotate knob so the arrow points to the desired position.

**To override:** Rotate knob to the Off position (arrow-to-arrow). The machine will make ice until the curtain switch stays open (cubers) or electric eye blocked (nugget/flaker).

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**Note: When used with the Smart-Board, and its 7 Day Programmable Ice Level feature is engaged, the adjustment knob of the Vari-Smart will not have any affect on ice level.**

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**Cuber on Countertop ice dispensers:** Set control to the 9 position (first click CW from arrow-to-arrow). At this setting the control will maintain a lowered level of ice that might occasionally be high enough that the ice machine will shut off on the curtain switch. This is normal. The average level of ice will be significantly lower than if the control was not being used. Models C0830 and C1030 may shut off after a few cycles due to their tall ice slab. Dispensing or agitation of ice will restart the machine.

**Nugget Ice Machines stacked on Ice Dispenser:** Set control to the 9 position (first click CW after arrow-to-arrow position), adjust as needed between 9 and 12 (1 to 4 clicks).

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**Note: Do NOT adjust lower (higher position number) than 14 when the ice machine is on a dispenser. Adjusting ice lower than position 14 will result in an empty dispenser.**

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**Hotel dispensers:** Not usually needed with HD22, HD30 and HD356.

**Ice storage bins:** Set the control to any desired position.