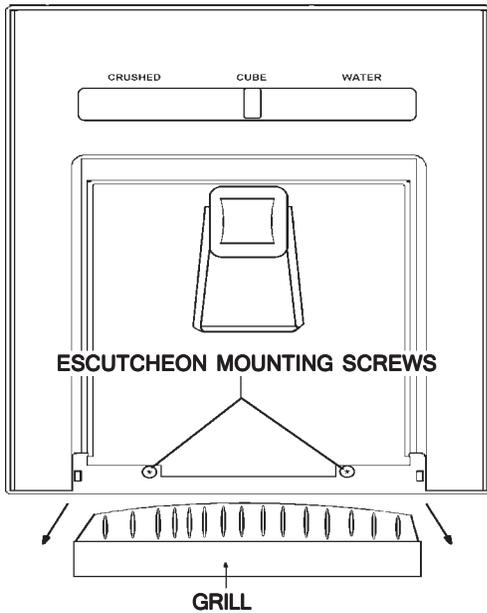


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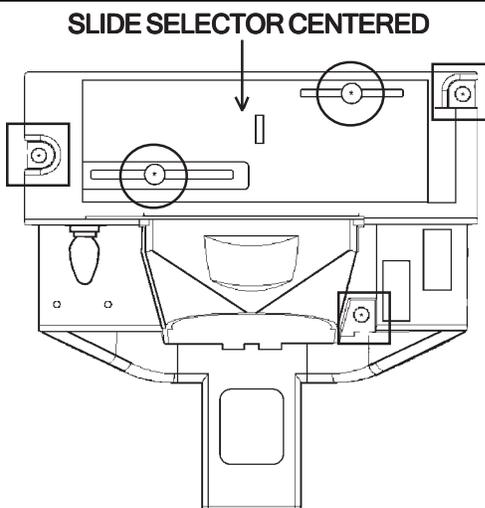
## FOUNTAIN ASSEMBLIES - Manual Slide Control



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### Ice and Water Fountain Bracket Assembly Removal

1. Pull straight out to remove the grill from the fountain sump.
2. Remove the two escutcheon mounting screws.
3. Raise the escutcheon up and off the fountain assembly.

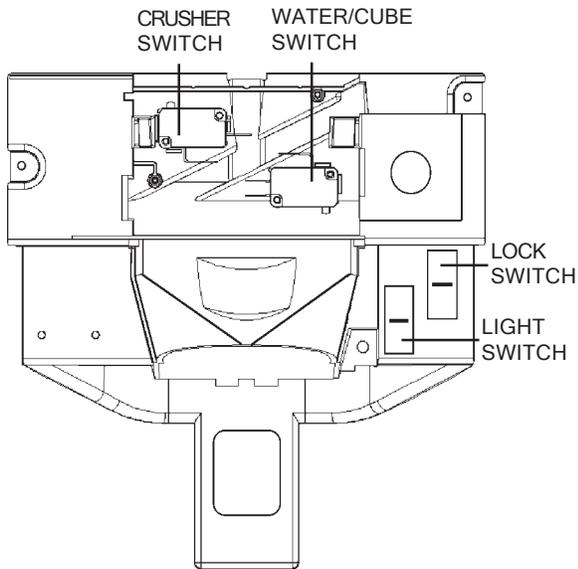


4. Place slide selector in center position.
5. Remove the three fountain bracket mounting screws. (See drawing in the lower left column.)
6. Carefully pull the assembly out of the fountain housing. You now have full access to the solenoid, dispenser mechanism, PC delay board, lock switch, light socket, and the light switch.
7. To repair the assembly, disconnect electrical quick disconnect.

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### Checking and Replacing the Crusher and Water/Cube Switch:

1. **Disconnect the unit from the power source.**
2. Perform steps 1 through 3 of **Ice & Water Fountain Bracket Assembly Removal.**
3. Remove the two slide selector mounting screws. (See drawing in the lower left column.)
4. Remove the slide selector.
5. Check the continuity of the switch. If defective, go to step 6.
6. Remove the switch mounting screw.
7. Remove the switch.
8. Remove the wire leads.
9. Install new switch in reverse order of removal.




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### Checking and Replacing the Actuator Switch:

1. **Disconnect the unit from the power source.**
2. Perform steps 1 through 6 of **To Remove Ice and Water Fountain Bracket Assembly.**
3. Check the continuity of the switch if defective go to step 4.
4. Remove the mounting screw.
5. Remove the switch.
6. Remove the wire leads.
7. Install new switch in reverse order of removal.

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### Fountain Heater

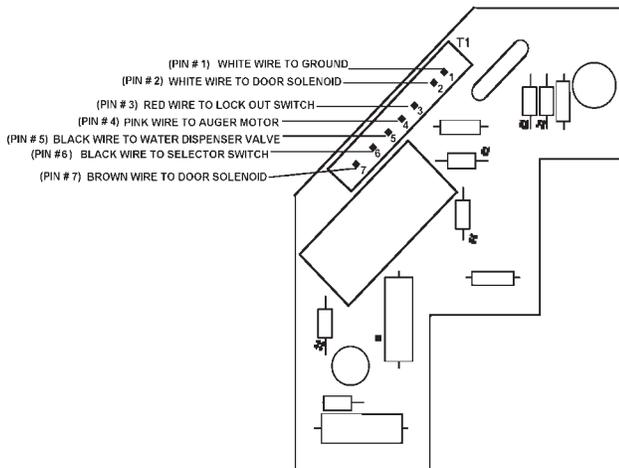
(A fountain heater is used on all dispenser models).

The fountain heater is used to evaporate any moisture that might accumulate from condensation. It is bonded to self-adhesive aluminum foil which is shaped to fit the outside of the fountain housing.

1. **Disconnect the unit from the power source.**
2. Remove the ice and water fountain bracket assembly as discussed earlier.
3. Disconnect the electrical quick disconnect.
4. Check for resistance between the red wire with the black tracer and the white wire on the fountain housing, quick disconnect electrical connector.
5. If the fountain heater reads open, go to step 5.
6. Remove the door from the unit and disassemble liner and the gasket.
7. Carefully remove the foam seals and disconnect the heater wire terminals.
8. Pull the foil heater backing from the fountain.
9. Reassemble the parts in reverse order of removal.

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## PC BOARD CHECKS



**The following checks should only be made by a Qualified Service Technician.**

1. **Disconnect unit from the power source.**
2. For easy access of the PC board, perform steps 1 through 5 of **Ice and Water Fountain Bracket Removal**.
3. Make sure everything is clear. Apply power to the refrigerator and perform the following checks with a volt ohmmeter.

### ***IF DOOR FAILS TO OPEN:***

**Note: The following checks will be at terminal board connector T1.**

1. Check for 115 volts AC from PIN 3 to PIN 1. (Lock out switch must be closed.)
2. Check for 115 volts AC from PIN 4 to PIN 1 when selector is set to crushed or cubed and actuator is depressed. If not there, check selector switches, actuator switch and associated wiring.

3. During activation, check for approximately 100 volts AC from PIN 7 to PIN 2. If 100 volts AC is not present, replace the board. If voltage is present, check the solenoid and associated wiring.

### ***IF THE DOOR FAILS TO CLOSE:***

1. **Disconnect the unit from the power source if the door still stays open.** Check the solenoid, door hinge and spring assembly. If the door closes, go to step 2.
2. Plug the unit in, check for 0 volts AC from PIN 1 to PIN 4. If you read 115 volts AC check switches and wiring. If voltage reads 0, go to step 3.
3. **Disconnect the unit from the power source** and remove the circuit board. Check continuity from PIN 7 to PIN 2. If shorted, replace the circuit board.

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## Fountain Door Delay

Normal door delay will be approximately 2 seconds.

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## Excessive Door Delay

Check for mechanical obstruction, if none replace PC board.

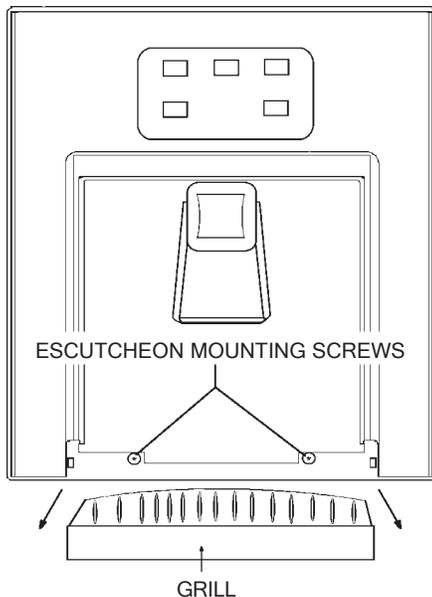
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## Short Door Delay

1. Check for 115 volts AC between PIN 3 and PIN 1. This ensures proper wiring and good connection. Low voltage may represent a problem in wiring connections or at outlet.
2. Check for 115 AC between PIN 1 and Pin 4 when dispenser switch is engaged.

The PC board uses this line to charge the holding circuit. A low voltage condition here may represent poor switch contacts. (Low voltage may cause short delays.) If low voltage conditions do not exist, replace the PC board.

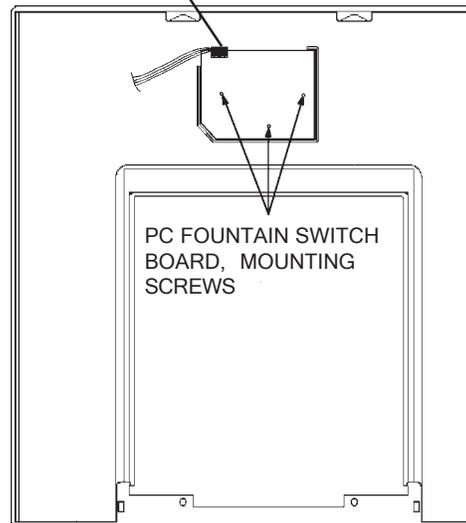
## FOUNTAIN ASSEMBLY - Electronic Control



## Ice & Water Fountain Bracket Removal

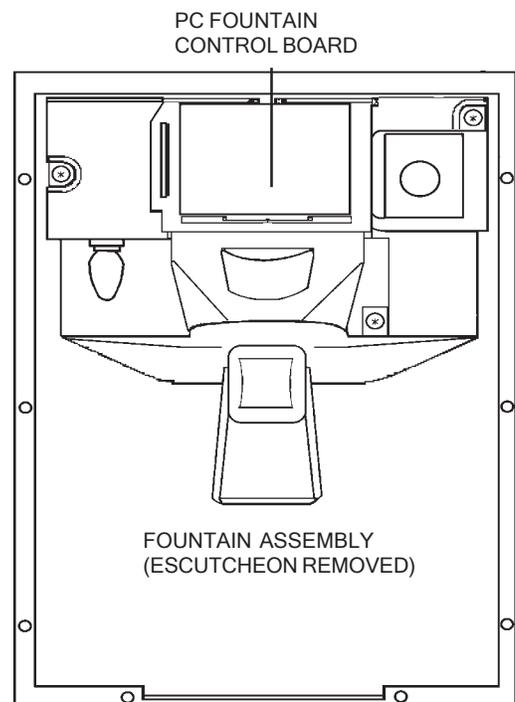
1. Disconnect the unit from the power source.
2. To remove the grill from the fountain sump, pull straight out.
3. Remove the two escutcheon mounting screws.
4. Carefully raise the escutcheon up and off the fountain assembly.
5. Disconnect the quick disconnect edge connector from the PC fountain switch board.
6. Remove the three fountain bracket mounting screws.

Quick disconnect edge connector from the PC fountain control board (Pull up to remove)

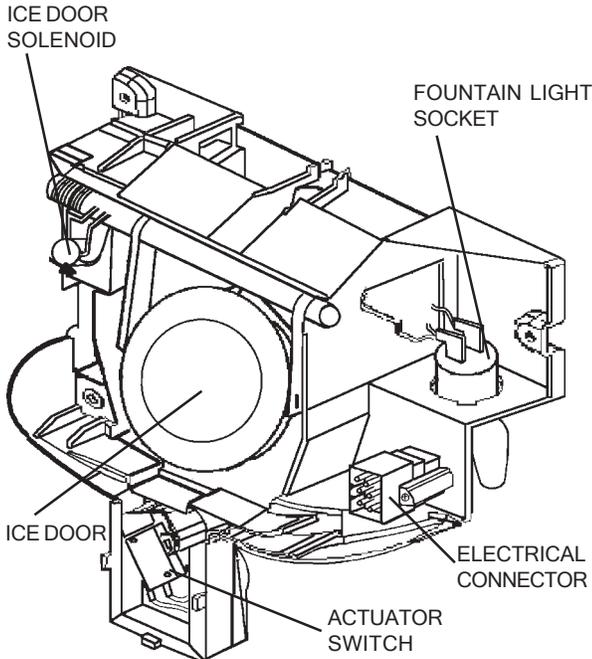


REAR VIEW FOUNTAIN ESCUTCHEON

7. Carefully pull the assembly out of the fountain housing. You now have full access to solenoid, dispenser mechanism, PC fountain control board and light socket.
8. To repair the assembly, disconnect electrical quick disconnect.



## Fountain Bracket Assembly



## Checking and Replacing the Actuator Switch:

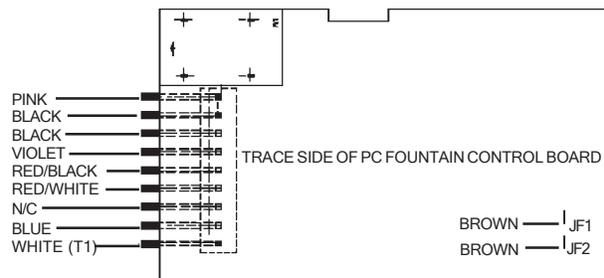
1. Disconnect the unit from the power source.
2. Perform Steps 1 through 6 of **Ice & Water Fountain Bracket Removal**.
3. Continuity check the switch. If defective, go to step 4.
4. Remove the mounting screw.
5. Remove the switch.
6. Remove the wire leads.
7. Install the new switch in reverse order of removal.

## Electronic Control Board Troubleshooting

**The following checks should only be made by a Qualified Service Technician.**

### NO LED'S ILLUMINATED ON THE FOUNTAIN TOUCH PAD

1. Check ribbon cable/wire connection between the two PC boards ("Mechanically Tight").
2. Checking the AC line in fountain verifies operation/closure of door interlock switch.



3. Check fountain heater continuity. **Unplug the unit.** Check heater resistance neutral to heater connection it should read approximately 4800 ohms.
4. Replace LED/Switch board.
5. Replace fountain control board.

### SOME LED'S WILL NOT LIGHT

1. Replace LED/Switch board.
2. Replace fountain control board.

### FOUNTAIN LIGHT WILL NOT LIGHT

1. Check bulb and mechanical connections.
2. Does fountain light illuminate during a dispense?

Yes: (a) Replace LED/Switch board.

No: (b) Replace fountain control board.

### WILL NOT DISPENSE ICE OR WATER

1. Press lock button 3 times. If another LED lights, replace LED/Switch PC Board.
2. When actuator pad is pressed, does fountain light come on?

**Note: Make sure fountain light bulb is good!**

No: (a) Check actuator switch and mechanical connections.

(b) Replace PC control board.

Yes: (a) If nothing works (ice door solenoid/auger/cube solenoid/water valve), replace PC control board.

No: (b) If some functions work check for 115 VAC at ice door solenoid/auger/cube solenoid/water valve terminals during dispense.

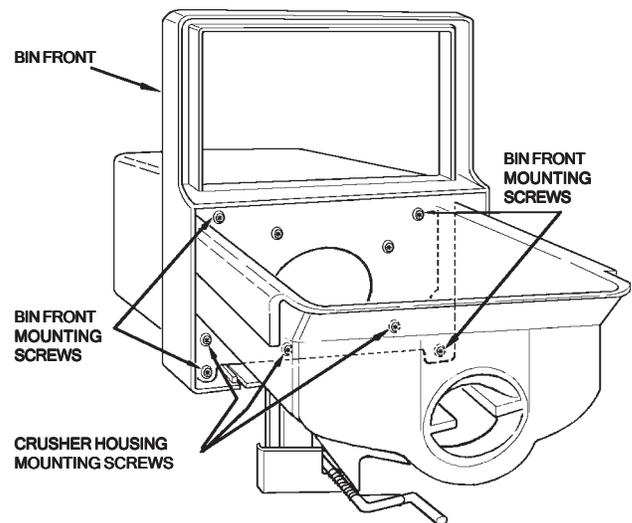
(1) If 115 VAC output exists, replace component.

(2) If 115 VAC output is not present, replace control board.

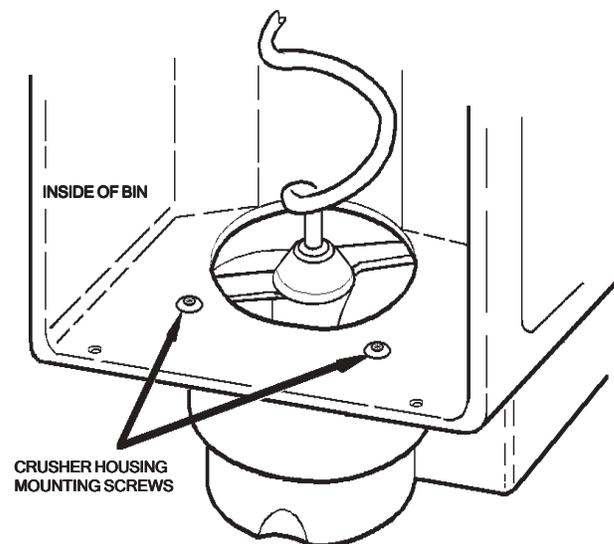
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### ICE CRUSHER BIN AND SHELF ASSEMBLY

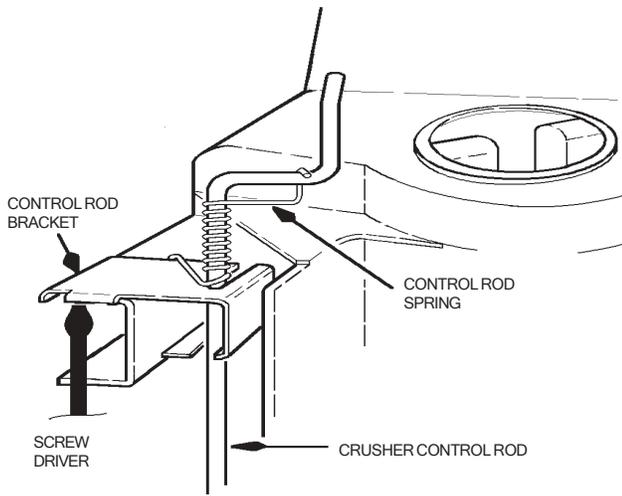
1. To service the ice/crusher related components, turn the ice maker off by lifting the shut off arm. Remove the bin assembly.
2. Remove the four bin front mounting screws.



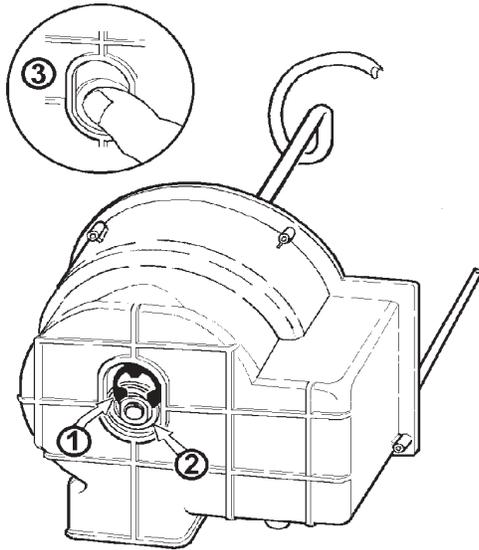
3. Place the bin assembly on the crusher housing.



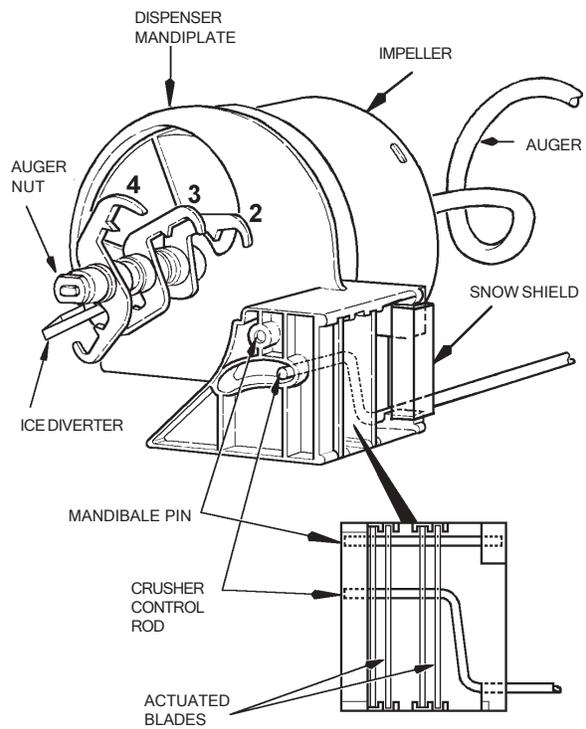
4. Care should be taken when removing the control rod spring to ensure it does not snap back on your finger.



- When removing the control bracket, hold the clip; this will prevent it from being thrown off.

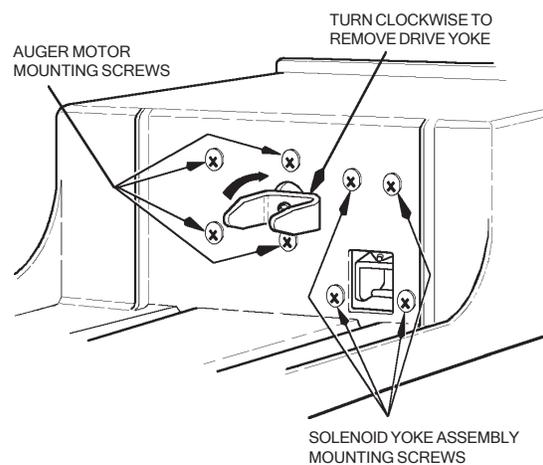


- When removing the crusher housing, position the snap ring (1) as shown in the above drawing, then remove it and the retainer washer (2).
- Push the auger assembly away from the crusher housing using your thumb (3).
- To remove the auger nut turn it clockwise.



- Replace the parts as required. The number on the blades should face the back of the auger nut. Blade number 4 should be nearest to the auger nut.
- Make sure the ice diverter is aligned to the boss on the dispenser mandiplate.
- Reinstall all other components in the reverse order of removal.

## ICE/CRUSHER BIN SHELF ENCLOSURE ASSEMBLY



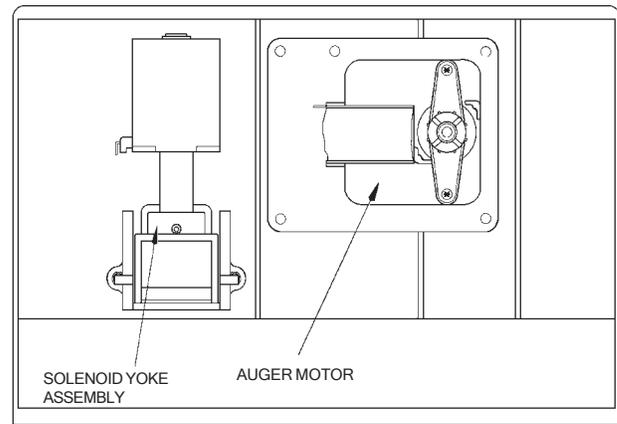
The auger motor and solenoid are located behind the storage bin. The yoke, fastened to the motor, engages the drive ring and turns auger in a clockwise direction. Both the yoke and drive ring are designed to prevent a loosening of the yoke by exerting counter pressure while in operation.

The auger motor makes one revolution approximately every three seconds. To determine the free movement of the auger motor, place the selector switch in either cube or crushed position (slide selector models). On electronic models, push the cube or crushed selector pad. Open the freezer door, push and hold the cabinet interlock switch in the closed position while pushing the dispenser actuator pad.

The solenoid is energized only when the selector switch is in the cube position. This will pull back the actuated blades. To determine the free movement of the solenoid/yoke assembly, place the selector switch (slide selector models) in the cube position. On electronic models, push the cube selector pad. Open the freezer door. While pushing the dispenser actuator pad, push and hold the cabinet interlock switch in the closed position. Observe the control rod yoke for vertical movement.

The auger motor and the solenoid/control rod yoke assembly are easily removed.

1. **Disconnect the unit from the power source.**
2. Remove the ice/crusher bin assembly.
3. Remove the retainer screw at the bottom left side of the ice/crusher bin shelf enclosure.
4. Pull the shelf forward and disconnect the quick disconnect.



5. Remove the assembly from the freezer and place on a flat work surface.
6. To check the auger motor, attach an ohmmeter probe to the auger motor terminals. The meter should show resistance. If the meter does not show resistance, the motor should be replaced.
7. To replace the motor, hold the auger motor armature and turn the yoke clockwise, releasing yoke from the motor shaft. Remove the yoke and washer.
8. Remove the four mounting screws that fasten the motor enclosure. Remove the motor from the enclosure.
9. Install the replacement part in reverse order of removal.
10. To check the solenoid yoke assembly, attach an ohmmeter to the solenoid terminals. The meter should show resistance. If it does not show resistance, replace the solenoid yoke assembly.
11. Remove the four screws that fasten the solenoid yoke assembly to the enclosure. Remove the assembly from the enclosure.
12. Install the replacement part in reverse order of removal.