

# SCOTSMAN Circuit Board Testing

//////////////////////////////////WARNING//////////////////////////////////

These procedures require the machine to be connected to the power supply. The voltages of the electronic circuit are very low, but HIGHER VOLTAGES ARE PRESENT IN THE UNIT. Do not touch anything but the tester while the unit is being checked out. Make all connections to the circuit board with the ELECTRICAL POWER OFF.

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## INSTRUCTIONS FOR USING TESTER, model FC1 (Optional, order part no. A33942-001)

(These instructions assume that the unit **will not run**, and prior investigation of electric power, controls, and mechanical parts indicates that the electronic circuit may be at fault.)

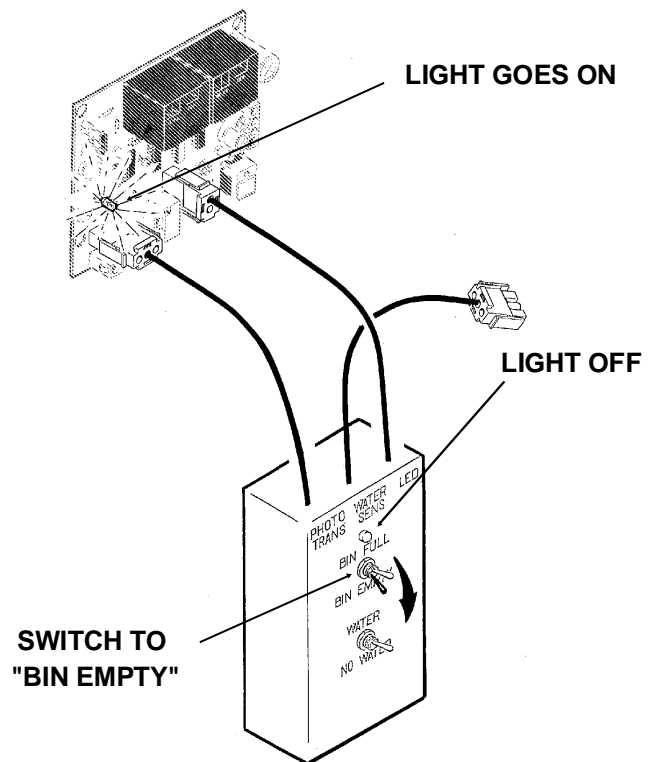
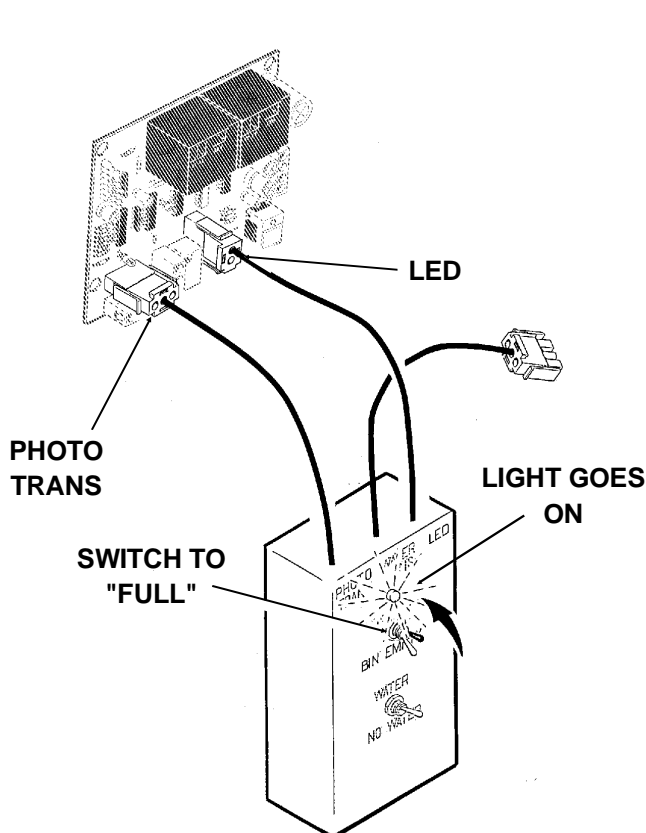
A. If the "Reset" indicator (used on older models & located in the "reset" switch) is off and the "NO WATER" indicator is on (bin empty light will probably also be On), but inspection shows that the water level in the reservoir is above the tip of the water level sensor, perform the **water level sensor test**.

B. If the "BIN EMPTY" indicator is off while inspection shows that the ice level sensors are properly aligned, clean and not obstructed, **perform the bin control test**.

**Bin Control Sensor Test Note:** All testing is done with the electrical power on, the master switch on, the "no water" light on the circuit board OFF, and all reset switches "reset".

1. Unplug "photo trans" and "LED" connectors from the circuit board.
2. Plug "photo trans" and "LED" connectors from the tester into the circuit board.
  - a. Move the "bin full" switch on the tester to Full. The light on the tester should be ON. If the light on the tester is not on, the circuit board should be replaced.

- b. If the light on the tester IS on, move the "bin full" switch to Bin Empty. The light on the tester should go OFF, and the Bin Empty light on the circuit board should go ON. If the Bin Empty light is ON, wait 10-20 seconds for the machine to start, if the machine starts, replace the ice level sensors. If the Bin Empty light does not come ON, the circuit board should be replaced.



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## Water Level Sensor Test

1. Unplug "water sen" connector from control board.
2. Plug "water sen" connector from Scotsman tester into circuit board.
  - a. Move "water" switch on tester to No Water position. The No Water light on the circuit board should go ON. If not, replace the circuit board.

- b. Move the "water" switch on the tester to the Water position. The No Water light on the board should go OFF. If not replace the circuit board. If the light does go off, replace the water level sensor.
- If the Bin Empty light is ON, wait 10-20 seconds for the machine to start. The machine should start.

