

# INSTRUCTION SHEET

## for Ice Maker Optics Diagnostics Procedure 4389102R

4020127



### ⚠ WARNING

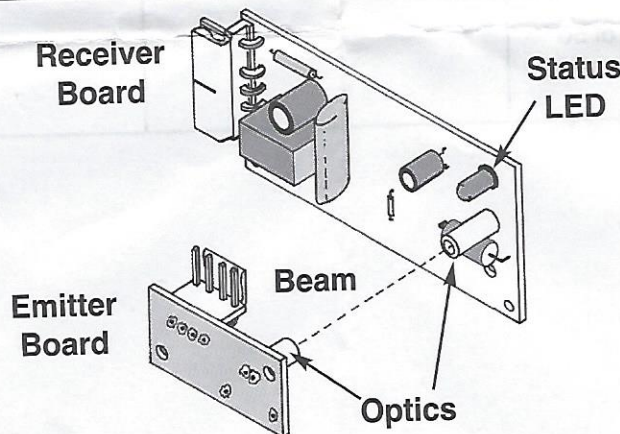
- Electrical Shock Hazard
- Disconnect power before servicing.
- Replace all panels before operating.
- Failure to do so can result in death or electrical shock.

**IMPORTANT NOTE:** For low ice production, or no ice, always check if freezer temperatures are normal (0°F to 5°F) before beginning diagnostic checks.  
 When updating a refrigerator with new boards, be sure to replace the old Ice Maker Tech Sheet (light blue) with the new one.  
 The procedure for diagnostics of the new boards follows.

## Optics Diagnostic Test Procedure

STEP #	STATUS LED	POSSIBLE CAUSES	ACTION
1. Open the freezer door and view the diagnostics "status" LED.	Two (2) pulses followed by a one (1) second delay (repeated).	The flapper door on the emitter is blocking the beam.	Go to Step 2.
		The optics are faulty.	Go to Step 2.
	No lamp.	Icemaker is in the harvest mode.	Press in the freezer door switch. When in the harvest mode, the status LED will flash once every second.
Faulty status LED.		Replace the receiver board.	
2. Press in the emitter flapper door to unblock the optics beam.	Two (2) pulses followed by a one (1) second delay (repeated).	The optics are faulty.	Replace the emitter and receiver boards.
	LED is on steadily.	The optics are working properly.	Close the freezer door.

(continued)



# Component Diagnostics Test Procedure



## ⚠ WARNING

- Electrical Shock Hazard
- Disconnect power before servicing.
- Replace all panels before operating.
- Failure to do so can result in death or electrical shock.

### Run the Optics Diagnostic Test on the Previous Page First

#### NOTES:

- FOLLOW STEPS ONE THROUGH TWELVE BELOW TO SET THE ICE MAKER FOR THE TEST.
- THE ICEMAKER CONTROL MUST BE IN THE "ON" POSITION.
- THE ICE BIN MUST BE ON THE DOOR AND THE ICE LEVEL BELOW THE NOTCHED OPENINGS.
- THE ICE MAKER MUST BE IN HARVEST IMMEDIATELY AFTER THE WATER FILL.

<ol style="list-style-type: none"> <li>1. Unplug refrigerator or disconnect power.</li> <li>2. Slide icemaker out, remove cover.</li> <li>3. Use an insulated jumper and jump "T" to "H" to bypass the bimetal to start a harvest.</li> <li>4. Plug in refrigerator or reconnect power.</li> <li>5. Close the freezer door to align the optics and a harvest cycle will begin in 5 seconds.</li> <li>6. Open the freezer door and observe I/M. A harvest should be in progress. <b>*If "T" to "H" is properly jumped and the icemaker won't run, stop test and check the icemaker.</b></li> <li>7. Unplug refrigerator or disconnect power.</li> <li>8. Remove the jumper before the fingers reach 10:00. Reinstall icemaker or be prepared to catch the water in step 10.</li> <li>9. Plug in refrigerator or reconnect power.</li> <li>10. Listen for the water fill and disconnect the power immediately after the fill.</li> <li>11. With the freezer door closed, reconnect the power.</li> <li>12. Wait 5 seconds to a maximum of 50 seconds, open the freezer door and watch the LED.</li> </ol>	<p><b>4 pulses,</b> repeated once, indicates a failed relay. Replace both optics boards</p>	<p><b>3 pulses,</b> repeated once, indicates optics and relay are good but, UM is not being sensed/will not operate.</p> <ul style="list-style-type: none"> <li>• Check I/M components.</li> <li>• Check I/M circuit and connections back to the receiver board and neutral.</li> </ul>	<p><b>2 pulses,</b> repeated once, indicate the optics are failed. Replace both optics boards.</p>	<p>Steady light for 5 seconds indicates the relay and optics are good, and the receiver senses the icemaker in the circuit.</p>	<p>No light - Unplug refrigerator for 5 seconds and repeat test.</p>
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