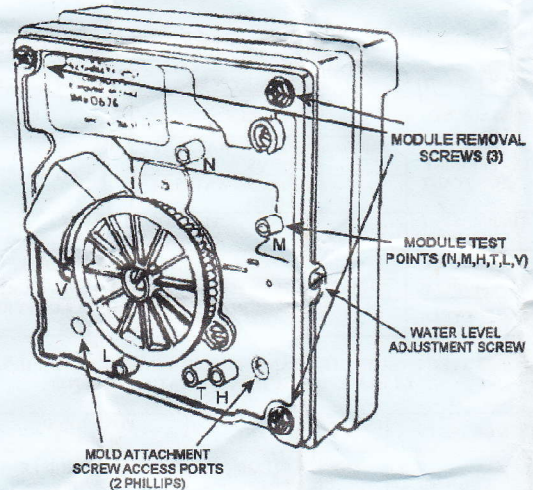


# MODULAR ICE MAKER & ICE LEVEL DETECTOR SERVICE SHEET

## ICEMAKER SPECIFICATIONS (120 VOLT MODEL):

| COMPONENT            | 25' & 27' MODELS                         | 22' MODELS              |
|----------------------|--|-------------------------|
| WATER FILL           | 130CC, 7.5 SEC                           | 86CC, 7.5 SEC           |
| MOLD HEATER          | Non-Finned: 185 WATTS, 72 OHMS           | All: 185 WATTS, 72 OHMS |
|                      | Finned: 260 WATTS, 51 OHMS               |                         |
| THERMOSTAT (BIMETAL) | CLOSE 17° +/- 3°<br>OPEN 32° +/- 3°      |                         |
| MOTOR                | 3.2-1.5 WATTS, 4,400-8,800 OHMS          |                         |
| MODULE               | STAMPED CIRCUIT, PLUG IN CONNECTORS      |                         |
| CYCLE                | ONE REVOLUTION (EJECTS ICE & WATER FILL) |                         |

## ICEMAKER MODULE



### MODULE OHMMETER CHECKS (NO POWER TO ICEMAKER & EJECTOR BLADES IN PARK)

| TEST POINTS | COMPONENT   | MODULE POSITION         | OHMS                               |
|-------------|-------------|-------------------------|------------------------------------|
| L - H       | MOLD HEATER | ATTACHED TO SUPPORT     | 72 / 51<br>(see mold heater above) |
| L - M       | MOTOR       | DISCONNECT FROM SUPPORT | 8800                               |

### MODULE VOLTAGE CHECKS WITH METER OR TEST LIGHT (POWER TO ICEMAKER)

| TEST POINTS | COMPONENT   | LINE VOLTAGE | 0 VOLTS  |
|-------------|-------------|--------------|----------|
| L - N       | MODULE      | POWER OK     | NO POWER |
| T - H       | BIMETAL     | OPEN         | CLOSED   |
| L - H       | HEATER      | ON           | OFF      |
| L - M       | MOTOR       | ON           | OFF      |
| N - V       | WATER VALVE | ON           | OFF      |

### WATER LEVEL ADJUSTMENT

TURNING THE ADJUSTMENT SCREW (SEE PICTURE ABOVE) CLOCKWISE DECREASES THE WATER FILL.

· MAXIMUM ADJUSTMENT IS ONE FULL TURN IN EITHER DIRECTION. ADDITIONAL ROTATION COULD DAMAGE THE MODULE.

## ICEMAKER DIAGNOSTICS PROCEDURE:

### 1. PERFORM THE OPTICS DIAGNOSTIC PROCEDURE

| OPTICS DIAGNOSTICS PROCEDURE:                             |  |   |  |
|---|--|---|--|
| STEP #  | STATUS LED   | POSSIBLE CAUSES                                       | ACTION   |
| A. OPEN THE FREEZER DOOR                                  | 1.A.1. 2 PULSES FOLLOWED BY A 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.  |
|   | 1.A.2. NO LAMP   | ICEMAKER IS IN THE HARVEST MODE.                      | PRESS IN THE FREEZER DOOR SWITCH. WHEN IN THE HARVEST MODE THE STATUS LED WILL BLINK 1 FLASH EVERY SECOND. |
| B. PRESS IN THE EMITTER FLAPPER DOOR TO UNBLOCK THE BEAM. | 1.B.1. PULSES FOLLOWED BY A 1 SECOND DELAY. (REPEATED)   | FAULTY DIAGNOSTICS LED                                | REPLACE RECEIVER BOARD.  |
|   |  | THE OPTICS ARE FAULTY                                 | REPLACE EMITTER & RECEIVER BOARD   |
|   | 1.B.2. LED IS ON SOLID                                   | OPTICS ARE WORKING CORRECTLY                          | CLOSE FREEZER DOOR   |

|   |  |   |
|---|--|---|
| <p>2. DISCONNECT THE POWER SUPPLY</p> <p>3. SLIDE THE ICEMAKER OUT, REMOVE COVER.</p> <p>4. JUMP "T" &amp; "H" TO BYPASS THE BIMETAL AND START A HARVEST.</p> <p>5. CONNECT THE POWER SUPPLY.</p> <p>6. CLOSE THE FREEZER DOOR TO ALIGN THE OPTICS AND A HARVEST CYCLE WILL BEGIN IN 5 SECONDS.</p> <p>7. OPEN THE FREEZER DOOR AND OBSERVE THE ICEMAKER.</p> <p><b>IF "T" TO "H" IS PROPERLY JUMPERED AND THE ICEMAKER WON'T RUN STOP TEST AND CHECK THE ICEMAKER.</b></p> | <p>8. REMOVE THE JUMPER BEFORE THE FINGERS REACH 10:00. REINSTALL THE ICEMAKER OR BE PREPARED TO CATCH THE WATER FILL.</p> <p>9. IMMEDIATELY DISCONNECT POWER AFTER THE WATER FILL.</p> <p>10. WITH THE FREEZER DOOR CLOSED, RECONNECT THE POWER SUPPLY.</p> <p>11. WAIT 5 SECONDS AND OPEN THE FREEZER DOOR AND WATCH THE STATUS LED.</p> | <p style="text-align: center;"><b>STATUS LED OUTPUT CODE:</b></p> <p>4 PULSES, REPEATED ONCE INDICATES THE RELAY IS DEFECTIVE. REPLACE BOTH THE EMITTER AND RECEIVER BOARDS.</p> <p>3 PULSES, REPEATED ONCE, INDICATES OPTICS AND RELAY ARE GOOD, BUT I/M IS NOT BEING SENSED/WILL NOT OPERATE.</p> <ul style="list-style-type: none"> <li>• CHECK BAIL ARM SWITCH. (MUST BE ON)</li> <li>• CHECK I/M CIRCUIT AND CONNECTIONS BACK TO THE RECEIVER BOARD AND NEUTRAL.</li> <li>• CHECK I/M COMPONENTS.</li> </ul> <p>2 PULSES, REPEATED ONCE, INDICATES OPTICS ARE DEFECTIVE. REPEAT STEP ONE AND REPLACE BOTH BOARD IF NECESSARY.</p> <p>STEADY LIGHT FOR 5 SECONDS INDICATES THE RELAY AND OPTICS ARE GOOD, AND THE RECEIVER SENSES THE ICEMAKER.</p> <p>NO LIGHT, UNPLUG THE REFRIGERATOR FOR 5 SECONDS AND REPEAT TEST.</p> |
|---|--|---|