TROUBLESHOOTING GUIDE

MUST USE CABLE FOR CONTROL BOX TO VALVE CONNECTION

NRTL RECOGNIZED TRANSFORMER TO MAIN PCB

Connectors

Pressure Switch

Motor Mount with Sensor Plate

Pressure Plate Assembly

CABLE RGBW 5 4 3 2 1

WHITE

RED

GREEN

Motor

PCB (COVER REMOVE)

115-130 V

BLK

BLK / YEL

BLK / RED

BLK / GRN

L1 L2

Jumper Jumper

Jumper

24 V  Secondary Fuse

Reset

Control Knob

LED Light

Blue

Controller

Main PCB

Power Pressure Switch To Valve

1  2  3  4

5  4  3  2  1

Black/Blue

White

Red

Brown/Yellow

Green

C 6 3 P 4

Blue

Yellow

Yellow

230-240 V

GREEN

GND

SCREW

~ ~ ~

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In order to prevent property damage or serious injury, including loss of life resulting from electrocution, the following must be adhered to:

WARNING

- This product must be connected to an external disconnect switch which will disconnect all power supplied to the product.
- The disconnect switch is not provided with the product and must be located at least 5 ft. (1.5 m) away from the inside walls of the pool/spa/hot tub.
- Use copper conductors only rated a minimum 60° C (140° f) for field wiring.

Normal Operation:
1. LED flashes 3 times.
2. Remains solid during motor rotation.

FOR YOUR SAFETY - This product must be installed and serviced by a contractor who is licensed and qualified in pool equipment by the jurisdiction in which the product will be installed where such state or local requirements exists. In the event no such state or local requirement exists, the installer or maintainer must be a professional with sufficient experience in pool equipment installation and maintenance so that all of the instructions in this manual can be followed exactly. Before installing this product, read and follow all warning notices and instructions that accompany this product. Failure to follow warning notices and instructions may result in property damage, personal injury, or death. Improper installation and/or operation will void the warranty.

LED Lighting Troubleshooting Chart

<table>
<thead>
<tr>
<th>Light Condition</th>
<th>Possible Cause</th>
<th>Troubleshooting</th>
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</thead>
<tbody>
<tr>
<td>No Light</td>
<td>Motor not running</td>
<td>OK (normal dwell between ports)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>OK (Rotary switch set to pause)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>OK (normal cycle w/ pump off)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Check fuse reset button on transformer</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Check for 120 VAC or 240 VAC at power supply</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Check wiring at power supply</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Check for 24 VAC to 29 VAC from transformer to PCB</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Replace Transformer if it is not producing 24 VAC to 29 VAC</td>
</tr>
<tr>
<td>Pressure switch malfunction</td>
<td>Check pressure switch and its wiring - see 3 fast blinks then off</td>
<td></td>
</tr>
<tr>
<td>Faulty LED (motor turns normally)</td>
<td>Check for 17 VDC at plug</td>
<td>Inspect LED wiring back to plug - reseat plug</td>
</tr>
<tr>
<td>Broken controller PCB Board</td>
<td>Only after checking all of the above - Replace PCB</td>
<td>Replace Bulb</td>
</tr>
<tr>
<td>3 fast blinks then off</td>
<td>Pressure switch malfunction</td>
<td>Check pressure at gauge ensure valve is receiving water from pump</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Unlock and decrease pressure needed to activate switch</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Check pressure switch and its wiring - Use jumper for PCB testing only</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Replace Pressure switch</td>
</tr>
<tr>
<td>Solid (3-5 secs at a time)</td>
<td>Motor running</td>
<td>OK</td>
</tr>
<tr>
<td>Solid (3-5 secs at a time and off 15 seconds no matter where the rotary switch is set)</td>
<td>6-position rotary switch unplugged</td>
<td>Reseat 6-position rotary switch</td>
</tr>
<tr>
<td>Solid (05 &amp; 15 secs at a time)</td>
<td>Faulty 6-position rotary switch</td>
<td>Replace 6-position rotary switch</td>
</tr>
<tr>
<td>Friction in valve slowing motor</td>
<td>Reduce friction w/ friction mitigation steps</td>
<td></td>
</tr>
</tbody>
</table>
Troubleshooting Caretaker Ultraflex2 (UF2) 8-Port In-Floor Systems

**LED is not lit.**

- Is the motor turning?
  - Yes: Replace sensor.
  - No: Check fuse/reset button on transformer.

**LED is solid.**

- Check pressure is over 1 PSI.
- Check that pump is turned on and all water pressure is flowing to the caretaker valve.
- Check the pressure sensor is wired into the control board.
- Test pressure sensor between pins 3-4 on the control board.
- Replace pressure sensor.

**LED flashes 2 times and then stays off.**

- Check pressure is over 1 PSI.
- Check if LED plug is seated correctly.
- Measure light voltage with multimeter.
- 1.7 VDC: No
- Replace light.

**Transformer tripping.**

- Verify that PCB boards are correct: Orange connectors on both.
- Ensure rotary switch is not on the program setting.
- Check all wiring connections at controller PCB, motor & sensor.
- Replace cable.

**LED turns on for 15 seconds; Starts flashing after shutdown and restart.**

- Check that lid is on the valve to block light.
- Check all wiring connections at controller PCB, motor & sensor.
- Verify that proper 18 gauge cable is installed.
- Replace O-ring kit and dry top plate.
- Replace top plate if calcified.

**Transformer is not functional.**

- Check power supply wiring and connections.
- Check if LED plug is seated correctly.
- Use test cable to verify integrity of burial cable.
- Replace.

**Valve is filled with water.**

- Verify drain plug is removed and valve is not burried.
- Verify lid is secure and is not broken.
- Inspect sensor wheel; pushed all the way up, set screw secure, wheel not bent or crooked.
- Replace.

**Transformer is trip reset.**

- Check transformer power supply wiring and connections.
- 120-240 VDC: Use test cable to verify burial cable integrity.
- Replace.

**LED is solid.**

- Check that lid is on the valve to block light.
- Check all wiring connections at controller PCB, motor & sensor.
- Replace cable.
- Replace controller PCB.

**LED is not lit.**

- Is the motor turning?
  - Yes: Check if LED plug is seated correctly.
  - No: Measure light voltage with multimeter.
  - 1.7 VDC: No
  - Replace light.

**Dwell time is random; starts and stops.**

- Inspect sensor wheel; pushed all the way up, set screw secure, wheel not bent or crooked.
- Check for miswire or faulty pressure switch.
- Check wiring from power supply.
- Replace sensor PCB.
- Trim outer vertical edge of wall inserts to reduce possible friction.
- Replace controller board.

**LED turns on for 15 seconds; Starts flashing.**

- Check that lid is on the valve to block light.
- Check all wiring connections at controller PCB, motor & sensor.
- Replace controller PCB.

**Transformer is trip reset.**

- Check transformer power supply wiring and connections.
- 120-240 VDC: Use test cable to verify burial cable integrity.
- Replace.

**Transformer is trip reset.**

- Check transformer power supply wiring and connections.
- 120-240 VDC: Use test cable to verify burial cable integrity.
- Replace.