Replacing 120 volt pool or spa lights with Universal ColorLogic™ or CrystaLogic™

**Before you begin**
Use this Guide ONLY if your current light is a 120 volt type. Refer to other Guide if your light is low voltage (12v).

**Pre-Installation Checklist**
- Existing pool or spa light operates on 120 volts
- There is a dedicated electrical junction box for the pool/spa light (see Step 1)
- A suitable transformer has been acquired (refer to Step 1 for more information)
- Light fixture housing (Niche) has been installed per the National Electrical Code (NEC)
- Your niche is compatible with the new light (refer to compatibility table in manual)
- If replacing a SwimQuip® light, the tab on the Universal ColorLogic™/CrystaLogic™ light may need to be removed (refer to manual)
- You have wire cutters or shears for cutting the existing light cord
- You have duct tape for taping the new cord to the old cord when pulling through conduit
- You have a Phillips head screwdriver
- You are qualified to work on electrical wiring and understand electric code requirements and wiring methods

**Installation Preparation**
- Read the entire Universal ColorLogic/CrystaLogic manual
- Read this entire Guide
- Remove power to the existing pool or spa light at the service panel!

**STEP 1: Find Junction Box**
If no junction box: If there is no junction box in place, the connection to the existing light is made directly to a switch, timer, pool controller, or subpanel. If so, a listed Pool/Spa wall mount transformer (Hayward® LTBUY11300) or a junction box transformer kit (Hayward LTBUYxxx) can be used to power the new Universal ColorLogic/CrystaLogic light. Consult with an electrician to re-wire and modify the existing conduit configuration to include the new transformer.

If there is a junction box: Determine the manufacturer of your pool or spa light’s junction box and acquire a compatible Hayward junction box transformer retrofit kit. Refer to the chart below for Hayward retrofit kit part numbers.

<table>
<thead>
<tr>
<th>Manufacturer</th>
<th>Junction Box Model</th>
<th>Hayward Transformer</th>
<th>Rating</th>
<th>Gang</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hayward®</td>
<td>SP860, SP881</td>
<td>LRBUY11H65</td>
<td>70 watt</td>
<td>single</td>
</tr>
<tr>
<td>Pentair®</td>
<td>78310500 78310600 78310700</td>
<td>LRBUY11P65</td>
<td>70 watt</td>
<td>single</td>
</tr>
<tr>
<td>Intermatic®</td>
<td>PJB2175</td>
<td>LRBUY11M65</td>
<td>70 watt</td>
<td>single</td>
</tr>
<tr>
<td>ThermoCraft®</td>
<td>JB675175</td>
<td>LRBUY11T65</td>
<td>70 watt</td>
<td>single</td>
</tr>
<tr>
<td>Intermatic®</td>
<td></td>
<td>LRBUY1113</td>
<td>140 watt</td>
<td>double</td>
</tr>
</tbody>
</table>

**STEP 2: Detach Light**
Remove the junction box cover and disconnect the existing light. Remove the light from the niche. Firmly pull on the light cord at the junction box and verify that the cord moves freely. There may be a grommet or sealant at the light cord’s point of entry into the niche. Removing this should allow the cord to pull freely through the conduit. Leave cord in place until Step 6.

**STEP 3: Cut Light Cord**
Place the light on the pool deck and cut the light cord as shown below.

**STEP 4: Tape Cord ends**
Keep the Universal ColorLogic/CrystaLogic light on the pool deck. Dry the cord ends thoroughly and tape them as shown. Using too much tape may prevent the cord from moving freely through conduit.

**If replacing a SwimQuip® light, the tab on the Universal ColorLogic™/CrystaLogic™ light may need to be removed (refer to manual).**

**Read the entire Universal ColorLogic/CrystaLogic manual**
**Read this entire Guide**

**Remove power to the existing pool or spa light at the service panel!**
**STEP 5: Snake Cord through Conduit**

Pull at the junction box or transformer end to snake the Universal ColorLogic/CrystaLogic cord through the conduit. Leave slack at the light end for coiling cord in the niche. The coil length should be adequate for placing the light on the deck if pool servicing ever requires light removal.

Some niches may have an 8AWG connection from the junction box to the niche. If so, ensure that this connection is not interrupted when installing the new light.

**STEP 6: Install and wire Junction Box Transformer**

The junction box retrofit kit transformer must now be installed and wired. Cut excess cord and refer to the diagram for wiring instructions.

If the new Universal ColorLogic/CrystaLogic light will be controlled by network communications using a Hayward Pro Logic controller, an LKBUN1000 coupler must also be installed. Refer to the LKBUN1000 instructions for installation and wiring information.

After wiring the Universal ColorLogic/CrystaLogic light to the junction box transformer, install the new cover making sure that the included gasket is in place.

**STEP 6a: Install Light to most Niches**

To fasten the Universal ColorLogic/CrystaLogic light to most niches refer to the diagram below.

- Coil up extra cable and insert in niche.
- Place hook on bottom of light into niche at 6 o’clock position then pivot top of light into niche.
- Fasten with original or included screw.

**STEP 6b: Install Light to Pentair Niche**

For Pentair® niches, use the included spacer according to the diagram below. Failure to install the plastic spacer properly may result in the light being inadequately fastened. Plastic gunite type niches will not require the spacer.

Refer to the manual for instructions when using a Swimquip niche.

**STEP 9: Install Trim Ring**

Install the Trim Ring as shown.

Read safety instructions and complete safety checklist inside front cover of manual.