# AQUA-STAR EVO2 REPLACEMENT LIGHT KIT INSTRUCTION MANUAL

# **INSTALLATION INSTRUCTIONS & OWNERS MANUAL**

# INSTALLER - READ ENTIRE INSTRUCTION SHEET BEFORE PROCEEDING TO INSTALL.

# **POOL OWNER** - PLEASE KEEP THESE INSTRUCTIONS FOR FUTURE REFERENCE.

The Aqua-Star Evo2 LED Replacement Light Kit was designed as an upgrade from existing Aqua-Star Halogen recessed pool lights.

Upgrades from other brands of recessed pool lights are available, contact Aqua-Quip for more details.

# **INCLUDED IN THIS KIT**

## Included in this kit:

- 1 x Pre-Assembled Quick-Connect Plug Assembly
- 1 x Female Screw Plug Terminal, with screws
- 1 x Evo2 LED Pool Light
- 1 x Screw Kit (to mount Evo2 Light onto Dress Ring)
- 1 x Spare Seal (RED)



## The tools you will need:

Phillips Head Screwdriver (small #1)
Pliers or Sidecutters
Wire-Stripping tool
Multi-Grips or Shifting Spanner

# Read the entire Instruction Sheet before starting the installation process.

### **Before Starting:**

The Quick-Connect Plug Kit is supplied pre-assembled with a WHITE Seal. The WHITE seal is used only when connecting to original Aqua-Star Grey Coloured Cable (1.5mm²). This cable has an outside diameter of approx 7.5mm.

If you are attaching the Quick-Connect Plug Kit to Evo2 Black Coloured Cable (1mm²), then a RED seal is required instead of the WHITE seal. This RED seal is supplied loose in the kit. Loosen the #128 Cable Nut, remove the WHITE Seal and fit the RED Seal.

14mm

Step 1. Strip the end of the existing Grey Cable or Black Cable as follows -

# FOR GREY CABLE ONLY:

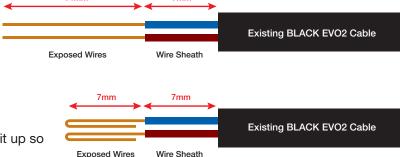
Expose 7mm of Copper Wire.



# FOR BLACK CABLE ONLY:

Step A:

Expose 14mm of Copper Wire.



7mm

# FOR BLACK CABLE ONLY:

Step B:

Bend copper wire back on itself, doubling it up so it is 7mm long.

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**Step 2.** Slide cable into rear of preassembled Quick-Connect Plug Assembly so that the cable end sits approx 100mm from end of plug. You may have to loosen #128 Nut to enable cable to slide through.



**Step 3.** Insert cable into terminals on #119 Female Plug and tighten screws all the way down (If not tightened correctly the plug will be difficult to fit into the #120 Connector Housing)



**Step 4.** Slide #119 Female Plug into #120 Connector Housing, be sure to align the keyway on #119 Female Plug with keyway on the inside of the #120 Connector Housing.



**Step 5.** Push #119 Female Plug all the way into #120 Connector Housing. Please ensure it pushes all the way into the "tongue and groove" keyway, so that the end of #119 Female Plug finishes flush with end of #120 Connector Housing.



**Step 6.** Tighten #128 Cable Nut on the cable. This must be done tight enough to ensure the Quick-Connect Plug will not leak. You will need to hold the hexagonal area on the #120 Connector Housing with multi-grips or shifting spanner in order to tighten the 128 Cable Nut tightly.

Ensure that the #125 Washer remains "clipped in" the #128 Cable Nut when tightening. This will ensure the #126 Seal is compressed effectively.

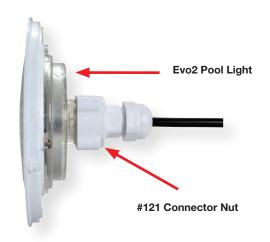


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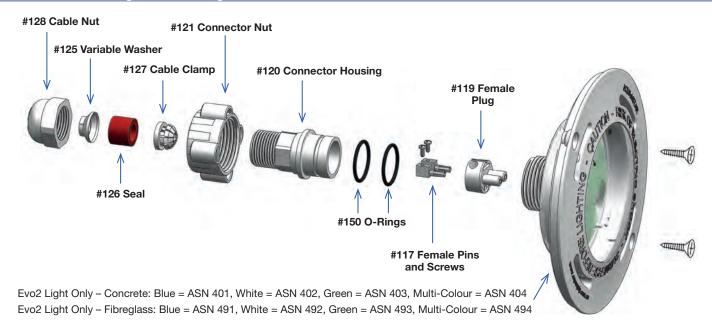
**Step 7.** Put a small amount of silicone-based lubricant onto the 2 x #150 O-rings and insert the Quick-Connect Plug into rear of light. When inserting Quick-Connect Plug be sure to align the #119 Female Plug with the two male pins on back of light. Hand tighten the #121 Connector Nut.

Mount Evo2 Pool Light onto original Aqua-Star or Evo2 Dress Ring, using the new screws provided.

If fitting optional Stainless Steel Trim Ring, then use the longer 7/8" screws provided with that kit. Do not fit coloured lenses over the Evo2 light. The installation is now complete.



# **Evo2 LED Pool Light - Parts Diagram**



# TECHNICAL SPECIFICATIONS EVO2 LED FLUSH MOUNTED POOL LIGHTS

Features: Operated by extremely safe extra low voltage supply (12V AC), low power

consumption, long life span, easy installation and operation

Nominal Supply Voltage: 12V AC 50/60 Hz Voltage Tolerance: +20%, -20%

Protection Rating: IPX8 (to 2.0m depth)

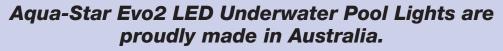
Temperature Range:  $-10^{\circ}\text{C} \sim +40^{\circ}\text{C}$  water temperature Power Consumption: White, blue and green = 8 VA

Power Consumption: Spectrum III Multi Colour = 16 VA maximum

Lamp Life: >50,000 hours

Light Output (typical): White-550 lumens, blue-180 lumens, green-500 Lumens

Fault Protection: Power-cycle "run dry" thermal cut-out. Voltage transient clamping.



Evo2 LED's are available in fixed colour White, Blue or Green, or the new and unique Multi-Colour Spectrum III. Programming instructions for Multi-Colour Spectrum III appear on the next page.

Evo2 lights must be connected to a 12v AC supply.



#### PROGRAMMING R-CHANGING

These instructions are applicable to Aqua-Quip Evo2 LED Multi-Colour Lights and Aqua-Quip Surface Mounted LED Multi-Colour Lights. The user can save either a Feature Mode or a selected colour.

Feature Mode: Select your favourite "scroll" or "flash" mode.

Selected Colour: Choose from a wide variety of vibrant colours and subtle hues.

Once a specific mode or colour is saved that selection will be remembered and recalled when the light is switched on (until a new selection is

Please note: When switched on for the first time, the lights are factory-saved to start in Mode 1: Colour Scroll.

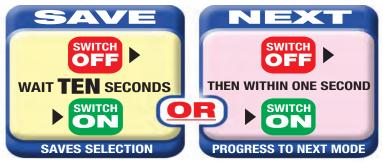
To change from the factory (or default) setting, follow the programming procedures below STARTING WITH THE DOUBLE SWITCH

PROCEDURE:

### PROGRAMMING PROCEDURE

Note: The DOUBLE SWITCH procedure is a quick OFF/ON/OFF/ON. The "dwell time" between switching may be influenced by the use of remote controls and home automation systems.





starting with RED.

Scroll Sequence:

# **Colour Selection Mode**

SAVE To save a selected colour as default, follow

above. <u>OR</u>

To SAVE, wait until your preferred colour is visible. To progress to the next Mode, follow **NEXT** above.

### Feature Mode 1: Colour Scroll

SAVE To save Colour Scroll as default, follow above.

**NEXT** 

Total 20 second cycle. To progress to the next Mode, follow above.

# Feature Mode 2: Slow Colour Scroll

To save Slow Colour Scroll as default, follow SAVE above.

OR **NEXT** To progress to the next Mode, follow above.

Feature Mode 3: Seaside Colour Scroll To save Seaside Colour Scroll as default, follow

> To progress to the next Mode, follow **NEXT**

SAVE above.

above.

Scroll Sequence:

Total 2 minute cycle.

Scroll Sequence:

Scrolls through the ocean water colours.

Lights will scroll through a range of colours

Scrolls through the colour spectrum.

Scrolls through the colour spectrum.

Total 20 second cycle.

# Feature Mode 4: Fast Flash

SAVE To save Fast Flash as default, follow

above.

**NEXT** above. Flash Sequence:

Blue, green, cerise, aqua, hot pink and orange.

2.5 seconds per colour.

# Feature Mode 5: Slow Flash

To progress to the next Mode, follow

SAVE To save Slow Flash as default, follow above.

To progress to the next Mode, follow **NEXT** above. Flash Sequence:

Blue, green, hot pink, aqua, orange and cerise.

15 seconds per colour.

In the unlikely event that the lights become un-synchronised repeat the initial DOUBLE SWITCH procedure as described above.

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