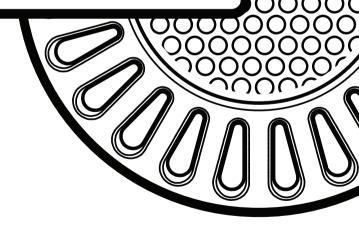


3" LED NICHE LIGHT





INSTALLATION & OWNER'S MANUAL



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FRESH WATER USE ONLY
HORIZONTAL MOUNT ONLY
NOT INTENDED FOR OPERATION OUT OF WATER

FOR SUPPLY CONNECTION, USE ONLY AN ISOLATING LOW VOLTAGE POWER SUPPLY WITH UNGROUNDED OUTPUT, EVALUATED FOR SWIMMING POOL USE

READ THIS FIRST

Congratulations on your purchase of a ParaGlo underwater lighting system.

All **ParaGlo** lights are manufactured by Spa Electrics in Australia from only the highest quality materials and exclusively distributed through Paramount Pool & Spa Systems, USA.

BEFORE YOU START:

- ParaGlo cables can be shortened to suit individual installation requirements. Spa Electrics recommends all cabling is protected by conduit and that a junction box (or similar) is incorporated into pool cabling design to avoid siphoning.
- Ensure that the lighting system is installed by a qualified person (e.g. registered pool builder and/or licensed electrician), in accordance with the most current edition and/or amendment of current NEC wiring code.
- For safe and proper installation, ensure that only those parts supplied with the system are used.
- Maximum installation depth for the ParaGlo 3" light is 1.2ft (14") below water line (to top of light).
- The ParaGlo 3" light must be correctly installed in or on the wall of the pool with the top of the lens no less than 4" below the nominal water level.
- All lights should be mounted in a location that is easily accessible without the need for entering or lowering the pool water.
- 20" cable has been supplied pre-assembled within niche assembly, and must remain stored within the Niche to ensure the light can be accessed above the waterline. [Maximum cable within niche = 24" (18AWG & 16AWG). See Page 16 for more information].

CLEANING

• Only use warm water and a soft brush or cloth to clean **ParaGlo** lights. **DO NOT** use detergents or spirits as this can damage the light and void your warranty.

USE

- <u>DO NOT</u> operate light unless completely submerged in water.
- Operating the light for at least 15 minutes every week is advised (all year round).
- ParaGlo lights are suited for both domestic and commercial installations and can be operated continuously (24/7) if required.
- Temperature range for installation, operation and servicing: $+32^{\circ}F \sim +104^{\circ}F$ (0°C $\sim +40^{\circ}C$)



IMPORTANT NOTE

The ParaGlo light must only be used with a UL listed 12V AC Class 2 power supply or a power source intended for swimming pool use (not included).

Minimum power source wattage requirement - 15 Watts per light.

- DO NOT use electronic or switch-mode power supplies with **ParaGlo** lights. These power supplies will damage the light and void your product warranty.
- Pool chemicals & PH levels: Due to the corrosive nature of unbalanced pool chemicals, Spa Electrics strongly recommend that your pool water is balanced prior to installing your pool lights or any plastic or stainless steel components, and tested weekly to maintain these levels. pH levels should be maintained between 7.2 7.6 at all times to ensure the longevity of these components.
 - > Failure to do so can result in chemical damage to the light housing and pool fittings, including stainless steel components.
 - > Please note: Lights or components found to have excessive chemical damage will not be covered under our manufacturer's warranty policy.
- This light contains no user-serviceable parts; opening the light will void the product warranty.

TOOLS REQUIRED

- No. 2 Phillips screwdriver
- Flat-blade screw driver (for light removal)



IMPORTANT NOTES

- The use of power tools during installation is **not** recommended as these devices can cause faults and damage to light components.
- All installation steps should be carried out with manual tools only.
- The enclosed images are for illustrative purposes only. Appearances of parts and assemblies may vary from the enclosed illustrations.
- Please contact your reseller if you have any questions regarding the correct installation of this product.



WINTERIZATION

- It is recommended to remove Paraglo lights in areas prone to hard freezing below 4".
- Lights should be disconnected from the power cable via the plug top on the rear of the light.
- The RED plug cover supplied must be fitted to the plug top prior to reinstalling cable into niche for winter.
- Consult your local pool professional for complete pool winterization process.

Please Note: Damage due to hard freezing is not covered under the manufacturer's warranty policy.

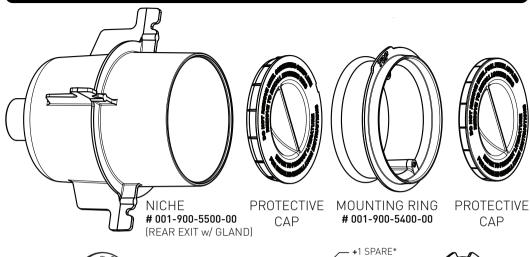
PRODUCT SUPPORT & INFORMATION

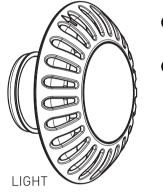
Phone: **TOLL FREE** 1800 621 5886

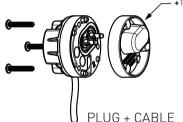
Email: paramount@1paramount.com

Web: www.1paramount.com

INCLUDED PARTS









100ft = # 001-900-5700-00 150ft = # 001-900-5800-00

* 1 SPARE TERMINAL COVER PROVIDED FOR WINTERIZATION (SEE PAGE 4)



LOCKING RING

PART # & LED COLORS:

001-900-5000-05 = BLUE

001-900-5100-01 = WHITE 4000K

001-900-5200-00 = MULTI-COLOR

001-900-5300-00 = Pentair / Zodiac Compatible

1x WARRANTY CARD

1x INSTALLATION MANUAL

001-900-5900-00

UL LISTING

NICHE # FMC 008LR US MOUNTING RING # FMC 009LM US LIGHT (Blue) # FMC BL US LIGHT (White) # EMC W4 US LIGHT (Multi) # EMC MC US LIGHT (P / Z*) # FMC MCP US PLUG & CABLE (80ft) # EMP 18AWG 80 US PLUG & CABLE (100ft) # EMP 18 AWG 100 US PLUG & CABLE # EMP 16AWG 150 US LOCKING RING # EMC 009LL US



REQUIRED PART (NOT INCLUDED)

UL LISTED 12V AC CLASS 2 POWER SUPPLY OR POWER SOURCE INTENDED FOR SWIMMING POOL USE.

Minimum power source wattage requirement - 15 Watts per light

Spa Electrics recommends "INTERMATIC PX" safety transformers for use with ParaGlo 3" lights

FINISHED INSTALLATION

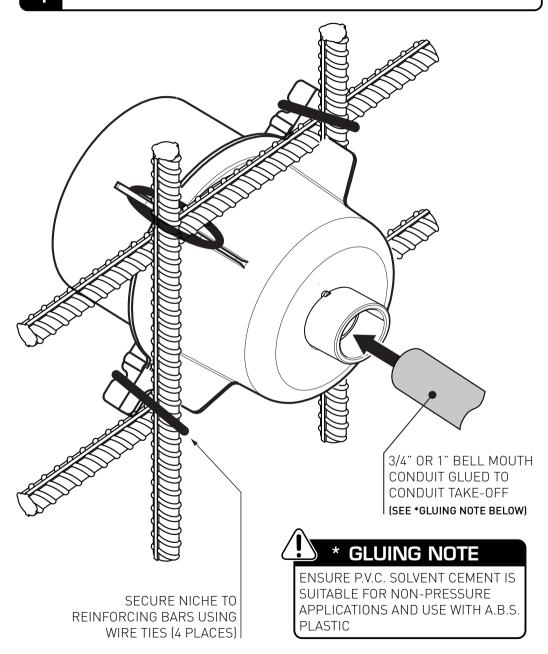
STANDARD WALL MOUNTING

Depending on your installation requirements, conduits may run to a common junction box or return directly to the power supply. In either case, POWER SUPPLY it is imperative that the conduit extends above the (TRANSFORMER) water level of the pool at some point in order to prevent siphoning. NOTE: Conduit should contain a draw-wire to allow easy installation of power cable 2ft (MIN) CONDUIT **ELEVATION ABOVE** JUNCTION BOX -WATER / GROUND 48" (1.22m) MINIMUM COPING -WATER -LINE **ELECTRICAL GROUNDING** DUE TO ITS PLASTIC HOUSING AND PLASTIC NICHE DESIGN, THE PARAGLO 3" LIGHT (EMC) LUMINAIRE DOES NOT REQUIRE GROUNDING / BONDING SEALING -WHEN OPERATED WITHIN A CLASS 2 COMPOUND CIRCUIT SUPPLY RE-BAR -SEE PAGE 23 FOR MORE INFORMATION POOL FINISH. (SEE PAGE 11) 2.5" (MAX) 1.75" (MIN) MINIMUM CONCRETE 5.5" (STANDARD) COVERAGE 4.75" (MINIMUM) CONCRETE NICHE DEPTH **THICKNESS**

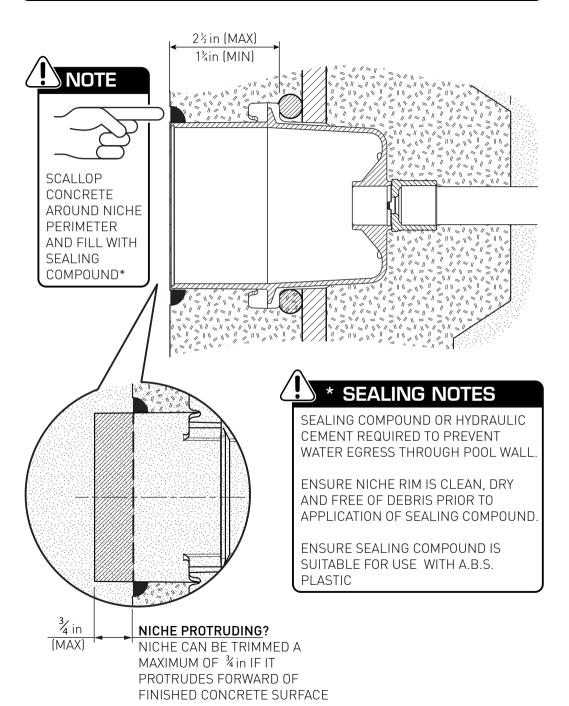
INSTALLATION

1

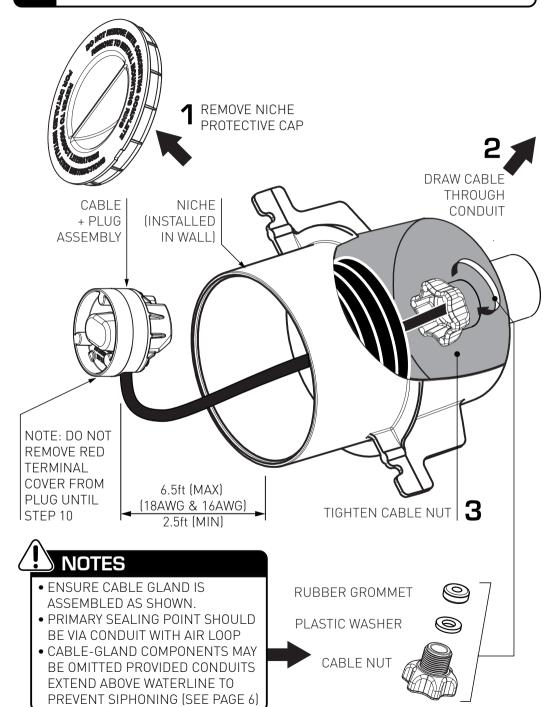
NICHE & CONDUIT INSTALLATION



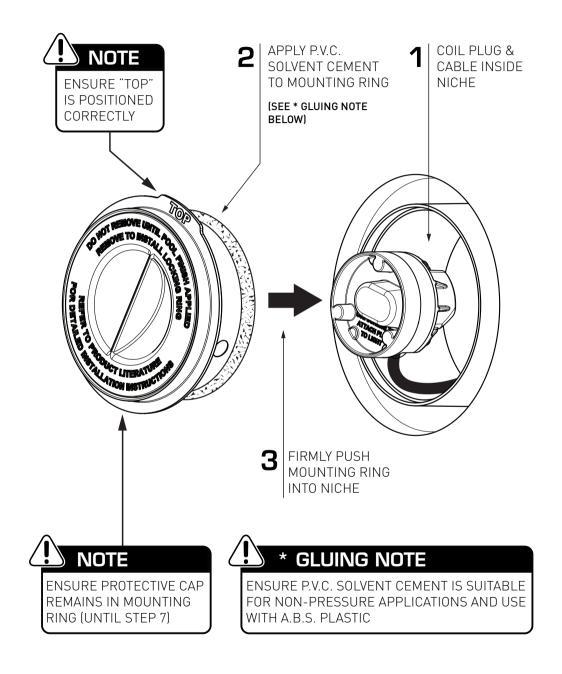
NICHE + CONCRETE DETAILS



INSTALL CABLE & PLUG INTO NICHE



INSTALL MOUNTING RING INTO NICHE



5

APPLY POOL FINISH

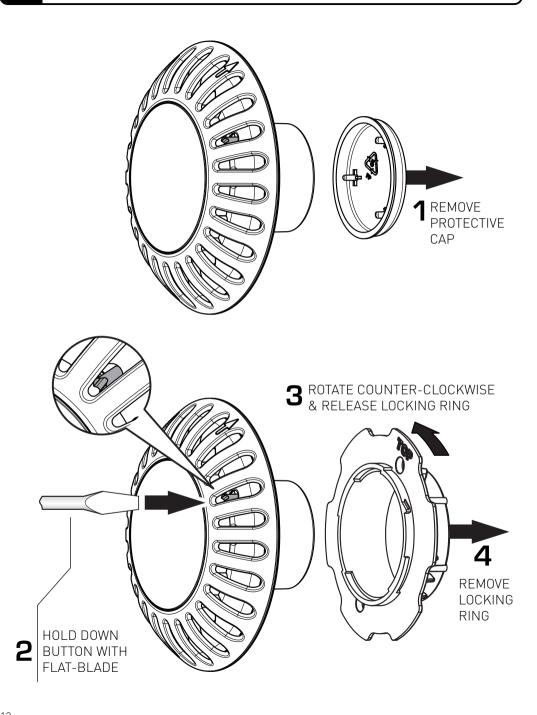


NOTE

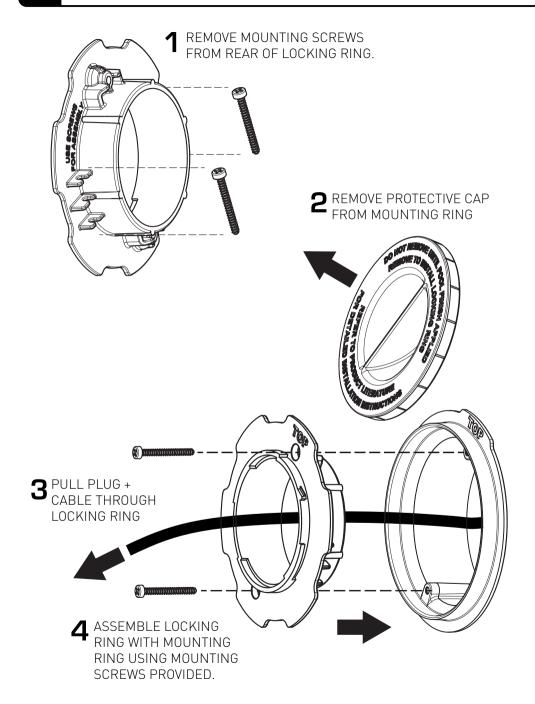
PROTECTIVE CAP MUST REMAIN IN MOUNTING RING DURING PLASTERING / TILING

USE FRONT EDGE OF MOUNTING RING AS GUIDE FOR MINIMUM POOL-FINISH THICKNESS 3/4" MAXIMUM THICKNESS CABLE COILED NOTE WITHIN NICHE DO NOT TRIM FRONT EDGE OF MOUNTING RING

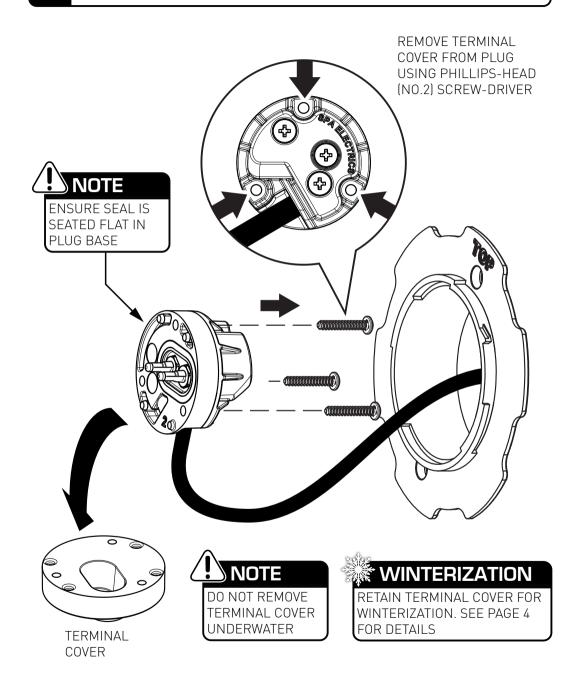
REMOVE LOCKING RING



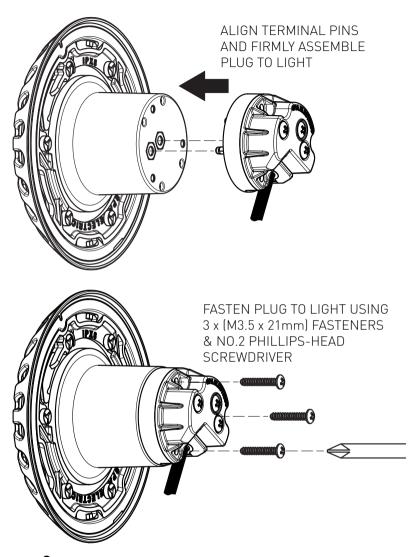
ASSEMBLE LOCKING RING TO MOUNTING RING



REMOVE TERMINAL COVER



ASSEMBLE PLUG TO LIGHT



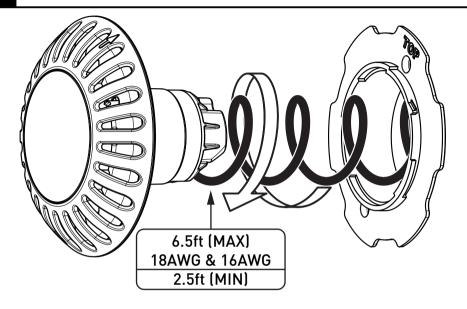
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IMPORTANT NOTES

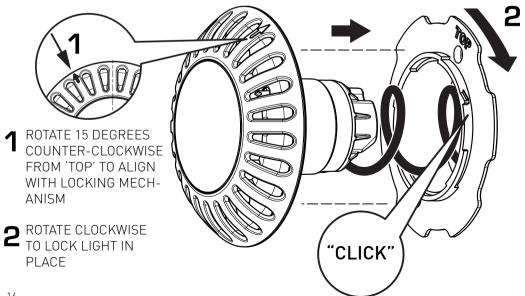
- DO NOT OVERTIGHTEN SCREWS
- DO NOT USE POWER-TOOLS
- DO NOT ADD SEALANTS, GREASES OR ADHESIVES
- ENSURE ALL SURFACES ARE CLEAN AND DRY
- DO NOT ASSEMBLE UNDERWATER

LIGHT ASSEMBLY

COIL CABLE INSIDE NICHE

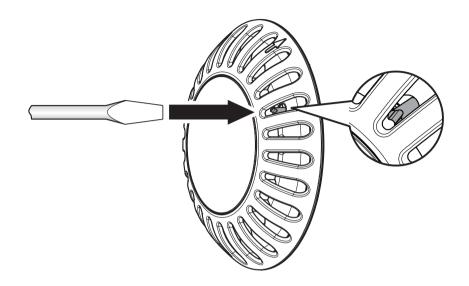


INSERT LIGHT INTO LOCKING RING

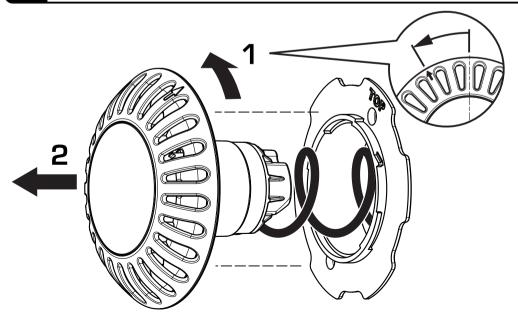


LIGHT REMOVAL

PUSH & HOLD BUTTON WITH FLAT BLADE



2 ROTATE COUNTER-CLOCKWISE & REMOVE FROM LOCKING RING



MULTI-COLOR OPERATION

1

STANDARD MODEL

Multi-Color light models provide a choice of 8 exciting fixed colors & 2 Multi-Color programs with the flick of a switch!

COLORS AVAILABLE:

Electric Blue
 Midnight Magenta
 Ruby Red
 Tropical Aqua
 Past Color Change
 Daylight White
 Warm White
 Slow color Blend
 Fast Color Change

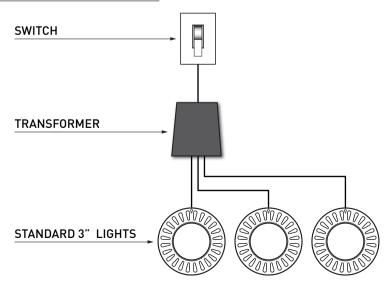
OPERATING INSTRUCTIONS

- To change the color of the light, simply turn your light OFF for 2 seconds and then turn it back ON. This will signal the light to step through to the next color. Colors will display in the order above, to select a desired color, simply step through the colors until you find your desired selection.
- Your lights will automatically save your selected color once the power has been turned OFF
 for more than 1 minute so the next time the lights are used, they will illuminate on the
 last color selected.
- 3. To reset or 'synchronize' your lights; with the power turned **ON**, turn the power **OFF/ON** once rapidly. This will put the lights into **RESET** mode (flashing **BLUE**), once this occurs turn the power **OFF**, wait **2** seconds & turn the power **ON**. Your lights should now be synchronized.

SYNCHRONIZED INSTALLATION

When installing multiple lights; to ensure synchronization and ease of operation all lights must operate from a single switch.

SUGGESTED WIRING DIAGRAM



P-TYPE MODEL (PENTAIR / ZODIAC COMPATIBLE)

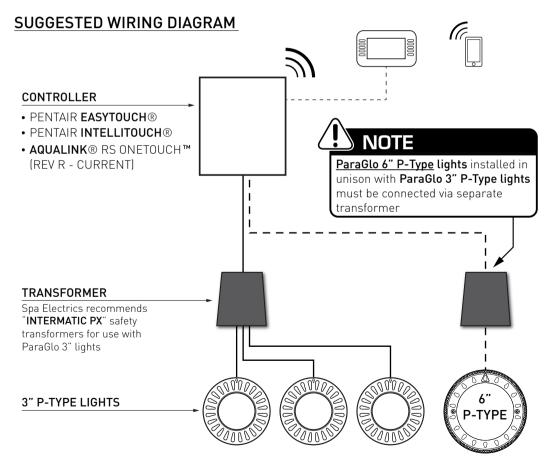
CONTROLLER OPERATION

The ParaGlo 3" 'P-Type' lights integrate with the Pentair EasyTouch®, IntelliTouch® & Zodiac Aqualink® RS OneTouch™ (Rev R - Current) Control systems. This allows the user to have direct control over colors and light shows via the intelligent control unit.

To setup the controller to operate the ParaGlo 3" 'P-Type' lights, simply follow the controller setup procedure and select "INTELLIBRITE" as the desired operating mode.

IMPORTANT:

The **ParaGlo 3"** light is <u>not</u> designed to be operated in conjunction with other manufacturers lighting products as the colors and shows may not be identical.



EASYTOUCH®, INTELLITOUCH® and SAm® are registered trademarks of Pentair Water Pool and Spa, Inc. and/or its affiliated companies in the United States and/or other countries. AQUALINK® is a registered trademark of Zodiac Pool Care, Inc.

P-TYPE MODEL (PENTAIR / ZODIAC COMPATIBLE)

MANUAL OPERATION & COLOR MODES

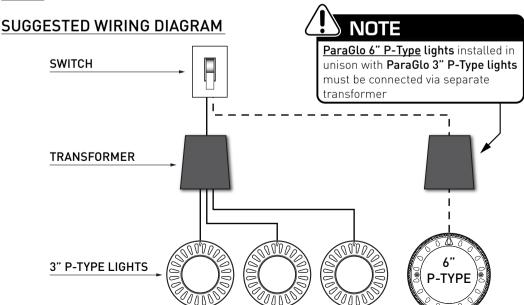
If required, the **ParaGlo 3" 'P-Type** lights can function using a standard wall switch. Wall switch operation can be used to select individual colors and shows as well as activate the 'HOLD' & "RECALL' feature

Turning the switch **OFF/ON** a specific number of times will select one of the five fixed colors or seven light shows available.

To select a different color show mode (1-7) or fixed color (8-12), with the lights turned **ON** - Turn the wall switch **OFF/ON** the required number of times. Each number (1-12) below corresponds to the number of times to power cycle the switch to activate the selected show or fixed color.

NOTE: Whenever a different color mode is selected by the user, the light is turned off for a short period (a few seconds) until the new mode is activated. This is normal operating behaviour.

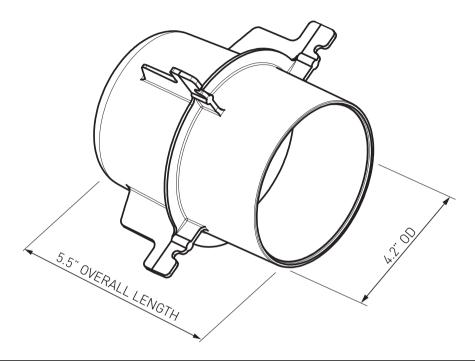
SAm®: Cycles through white, magenta, blue and green colors. (emulates the Number of times to cycle power (1-14) Pentair SAm® color changing light). 2 Rapid color changing building energy and excitement. Partv: 3 Romance: Slow color transitions creating a mesmerizing and calming effect. 4 Caribbean: Transitions between a variety of blues and greens 5 American: Patriotic red white and blue transition 6 California Sunset: Dramatic transitions of orange, red and magenta tones. 7 Royal: Richer, deeper color tones 8 Blue: Fixed color. 9 Green: Fixed color. 10 Red: Fixed color 11 White: Fixed color. 12 Magenta: Fixed color. 13 Hold: Save the current color effect during a color light show. 14 Recall: Activate the last saved color effect.



KEY DIMENSIONS

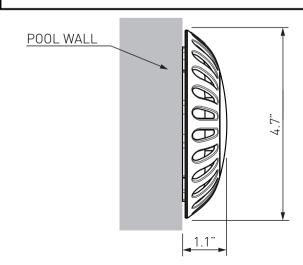
А

NICHE



B

INSTALLED LIGHT



TROUBLESHOOTING

ISSUE	REASON	ACTION
Light flashing Blue continuously	System is in "Reset" mode	Refer to multi-color operating instructions
Light flashes 2 times	Light over heating	Check light is fully submerged. Check vents are not obstructed
Light flashes green	Over-voltage detected	Ensure transformer output voltage is between 12V ~ 13V. Replace transformer if necessary.
Light not operating (1)	Faulty connection to transformer	Ensure cable correctly connected to transformer terminals
Light not operating (2)	Mains power not connected	Check transformer is plugged in to GPO and switched on
Light not operating (3)	Damaged cable	Disconnect plug top and test voltage under load using multi-meter (ie. 20w 12v)
Light not operating (4)	Transformer not working	Check fuses & test transformer using multimeter under load (ie.15W 12V)
Light not operating (5)	Damage caused by high voltage and/or incorrect power supply.	Return product to Paramount Pool Systems for repair
Light colours not synchronized	Power interruptions or lights have been used individually	Reset lights - refer to multi- color operating instructions

If these issues cannot be resolved with the above recommended actions, please contact Paramount Pool & Spa Systems AZ 85225.

Phone: **TOLL FREE** 1800 621 5886 Email: paramount@1paramount.com Web: www.1paramount.com

ELECTRICAL GROUNDING

Underwriters Laboratories (UL) Statement

Per the NEC, NFPA 70, Article 680.23 (B)(5), states that bonding shall not be required for luminaires that are listed for the application and have no non-current carrying metal parts. In addition, per Article 680.26 (B)(4), exception states that Listed low-voltage lighting systems with non-metallic forming shells shall not require bonding.

Therefore, luminaires that are located in the Class 2 circuit with polymeric/non-current carrying metal parts are not required to be grounded / bonded.

Manufacturers Statement

ParaGlo 3" & 6" (EM & WN9) luminaires with their plastic housing designs and plastic niches do not require grounding / bonding when operated within a Class 2 circuit supply.

ParaGlo 3" & 6" (EM & WN9) lights have also been determined to comply with the applicable requirements for wet-niche, LED type Swimming Pool and Spa Luminaires.

FCC COMPLIANCE STATEMENT

This device complies with part 15 of the FCC rules. Operation is subject to the following two (2) conditions:

- (1) This device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different to that to which the receiver is connected.
- · Consult the dealer or an experienced radio / TV technician for help.

Do not make any changes or modifications to the equipment unless otherwise specified in the manual.







Spa Electrics

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www.spaelectrics.com.au

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