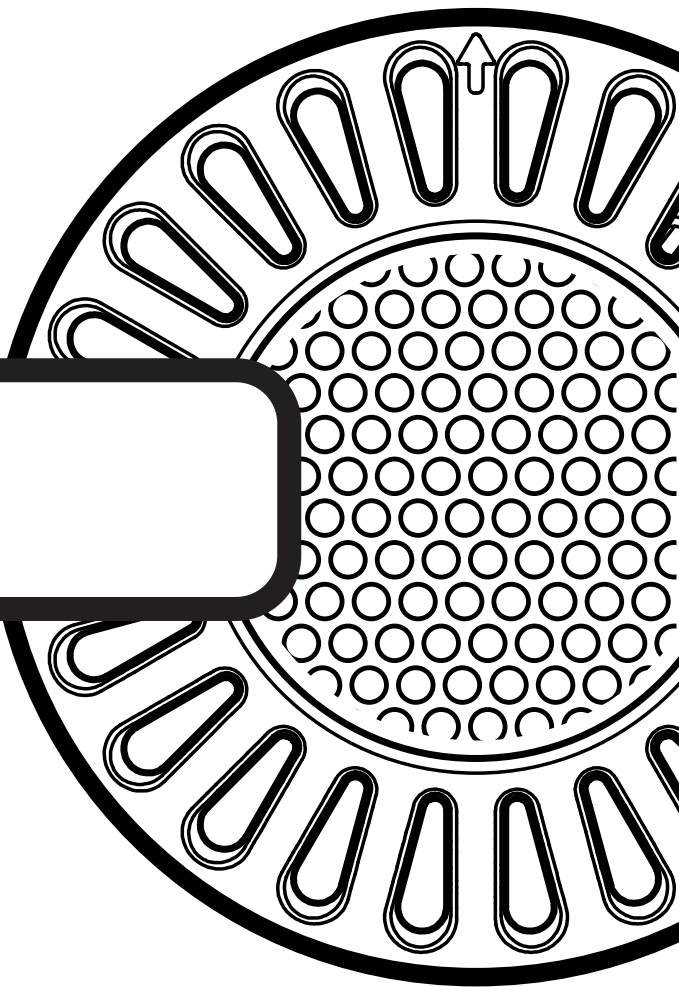




atom

POND LIGHT



EMP

INSTALLATION & OWNER'S MANUAL

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NOTICE



NOT INTENDED FOR OPERATION OUT OF WATER

READ THIS FIRST

Congratulations on your purchase of the **ATOM** underwater lighting system. All **ATOM** lights are manufactured by Spa Electrics in Australia from only the highest quality materials. For more information about Spa Electrics & our products, please visit **www.spaelectrics.com.au**

BEFORE YOU START:

- **ATOM** 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 AS/NZS 3000 Wiring Rules.
- For safe and proper installation, ensure that only those parts supplied with the system are used.
- Maximum installation depth for the **ATOM** light is 400mm (16") below water line (to top of light).
- All lights should be mounted in a location that is easily accessible without the need for entering or lowering the pool water.
- 700mm (28") 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 - 1000mm (40") (up to 1.0mm²). See Page 16 for more information).

CLEANING

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

USE OF PRODUCT

- **DO NOT** operate light unless completely submerged in water.
- Operating the light for at least 30 minutes every week is advised (all year round).
- **ATOM** 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: +5°C ~ +40°C (+41°F ~ +104°F)

IMPORTANT NOTE



It is recommended that the ATOM lighting range is operated using a Spa Electrics LV25-12 or LV50-12 transformer.

- DO NOT use electronic or switch-mode power supplies with ATOM lights. These power supplies will damage the light and void your product warranty.
- Pool chemicals & PH levels: Due to 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 containers no user-serviceable parts; opening the light will void the product warranty.

AQUATIC LIFE



The EMP Series Pond Lights produce very bright colours at specific wavelengths, specialist advice should be sort before use with aquatic life.

Wavelengths used:

BLUE: 465nm

GREEN: 560nm

RED: 620nm

WHITE 4000K: 580nm (dominant)

Based on in-house testing it has been noted that the EMP Series pond light produces a 1°C temperature rise in 45l of water @ 25°C. This temperature rise reduces with the increase in water volume, however specialist advice should be sort before using this product for aquatic life sensitive to temperature rise.

TOOLS REQUIRED

- ✓ No. 2 Phillips screwdriver
- ✓ Flat-blade screw driver (for light-head removal)
- ✓ 4.5-5mm Masonry drill bit (for concrete installation only)
- ✓ Power Drill (To drill holes for anchors)
- ✓ Neutral Curing RTV Silicon (for fibreglass installation only)
- ✓ 3mm drill bit (for fibreglass installation only)

IMPORTANT NOTES



- The use of power tools for product assembly is **NOT** recommended as these devices can cause faults and damage to light components.
- 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.

PRODUCT SUPPORT & INFORMATION

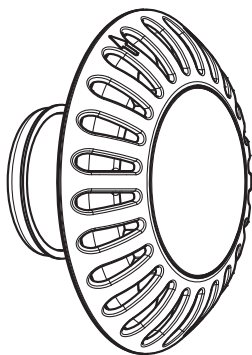
Phone: +61 03 9793 2299 (business hours)

Email: info@spaelectrics.com.au (SALES enquiries)

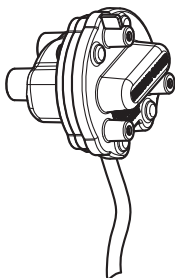
Email: tech@spaelectrics.com.au (TECHNICAL support enquiries)

Web: www.spaelectrics.com.au

INCLUDED PARTS



LIGHT ASSEMBLY



PLUG & CABLE

POND MOUNTING BRACKET ASSEMBLY

MOUNTING PLATE

WALL BRACKET

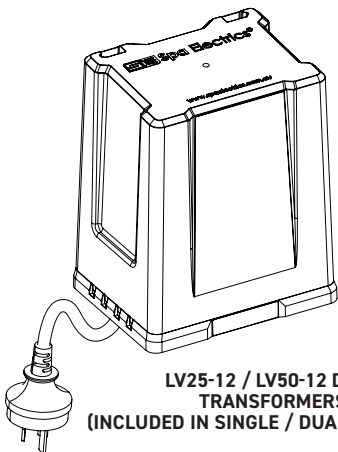
4 X MOUNTING SCREWS

4 X SCREW ANCHORS

2 X THUMB WHEELS

2 X HARD WASHERS

2 X RUBBER WASHERS



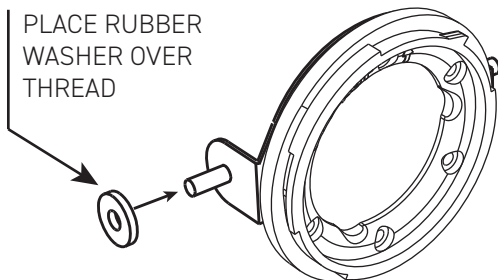
LV25-12 / LV50-12 DUAL TRANSFORMERS
(INCLUDED IN SINGLE / DUAL LIGHT KITS)

SOLD SEPERATELY

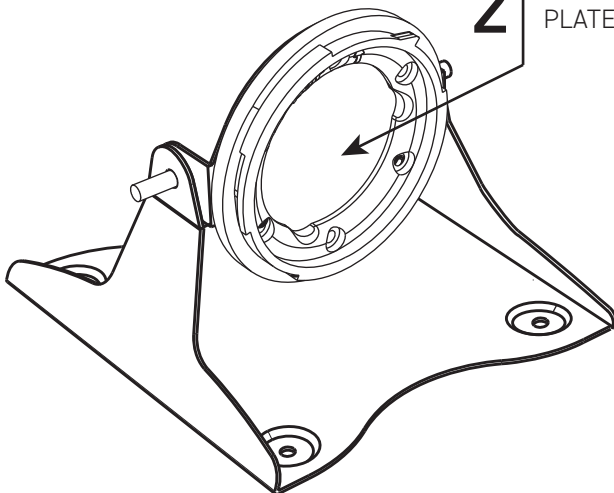
FLOOR BRACKET
(P/N: POND BASE FOOT)

FLOOR BRACKET ASSEMBLY

- 1** | PLACE RUBBER WASHER OVER THREAD



- 2** | INSERT MOUNTING PLATE INTO BASE

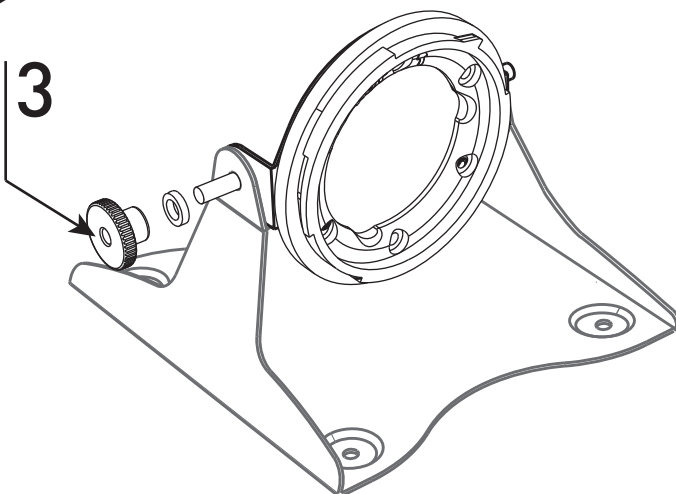


NOTE

GENTLY PRY BASE
ARMS APART TO
FIT MOUNTING
PLATE

- PLACE HARD
WASHER OVER
THREAD & TIGHTEN
THUMB-WHEEL

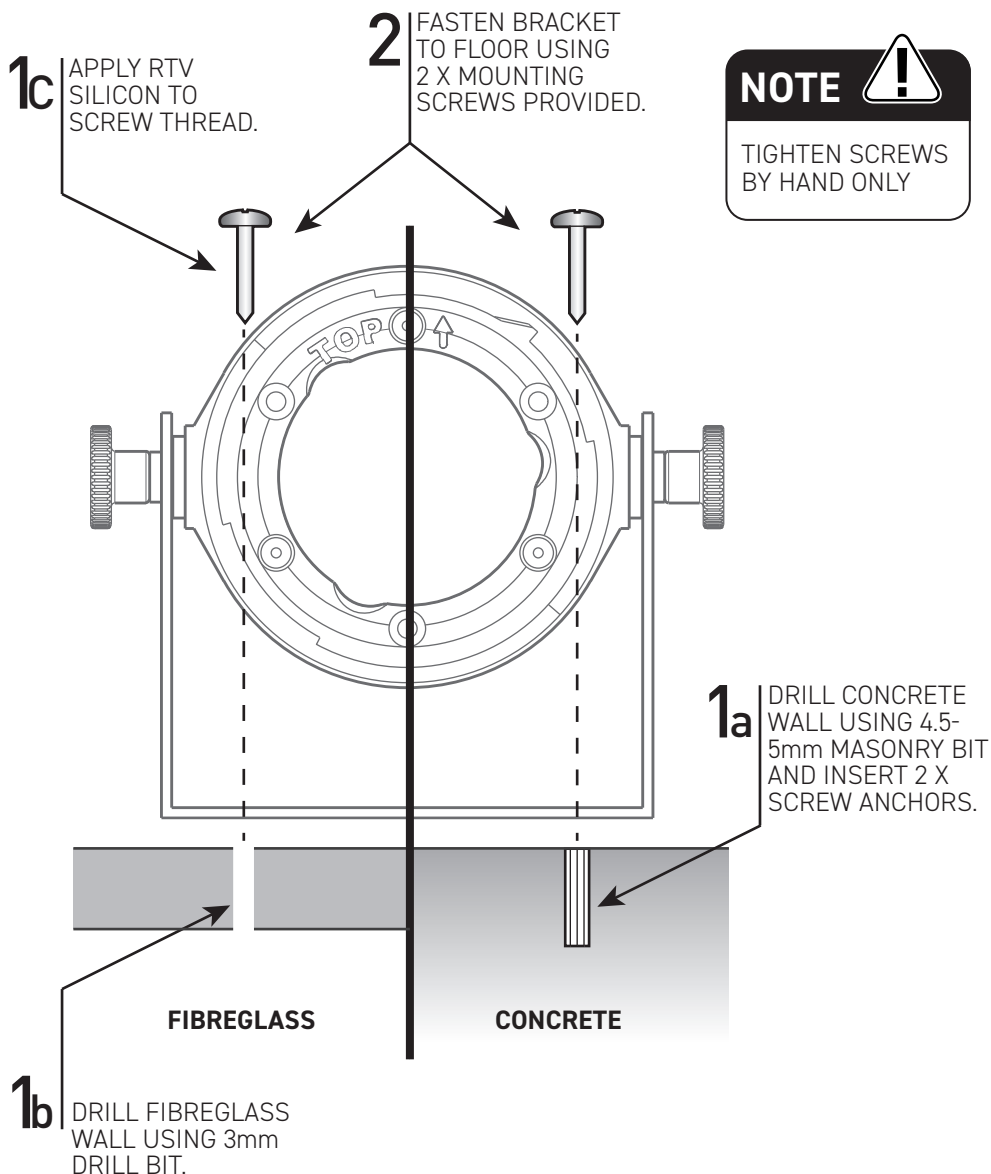
3



INSTALLATION - MOUNT BRACKET

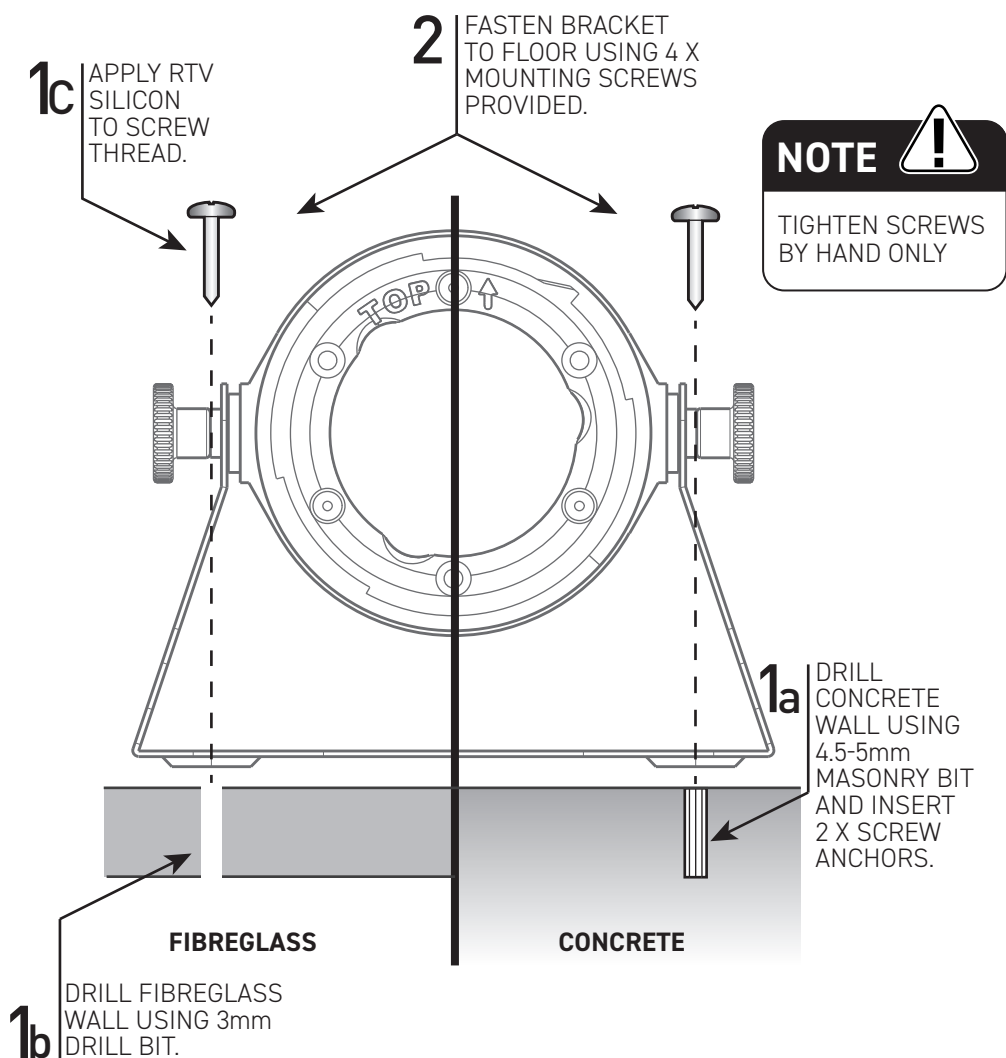
A

WALL BRACKET INSTALLATION



B

FLOOR BRACKET INSTALLATION



INSTALLATION - LIGHT ASSEMBLY

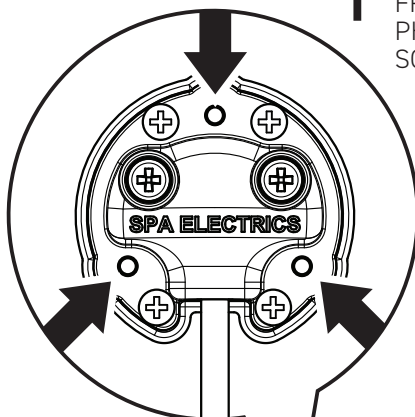
1 REMOVE PLUG DUST COVER

1 REMOVE DUST COVER FROM PLUG USING PHILLIPS-HEAD (NO.2) SCREW-DRIVER

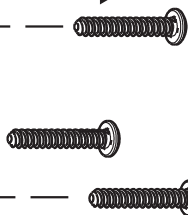
NOTE



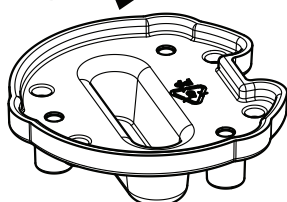
ENSURE SEAL IS SEATED FLAT IN PLUG BASE



2



3



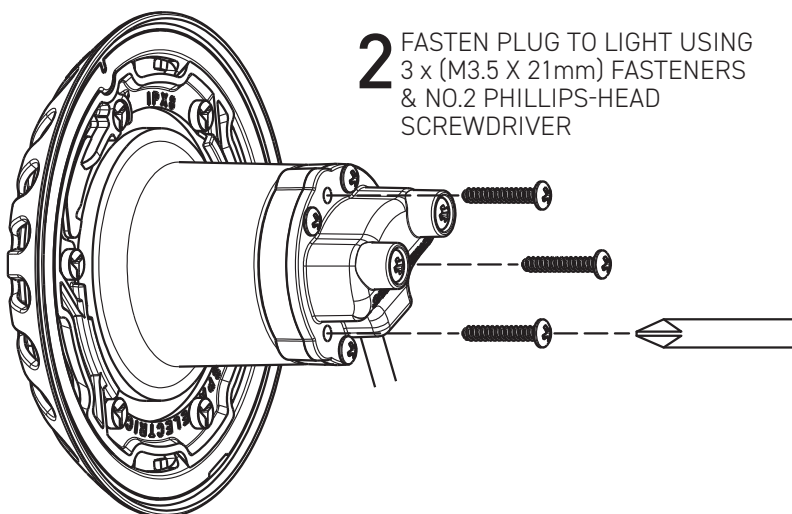
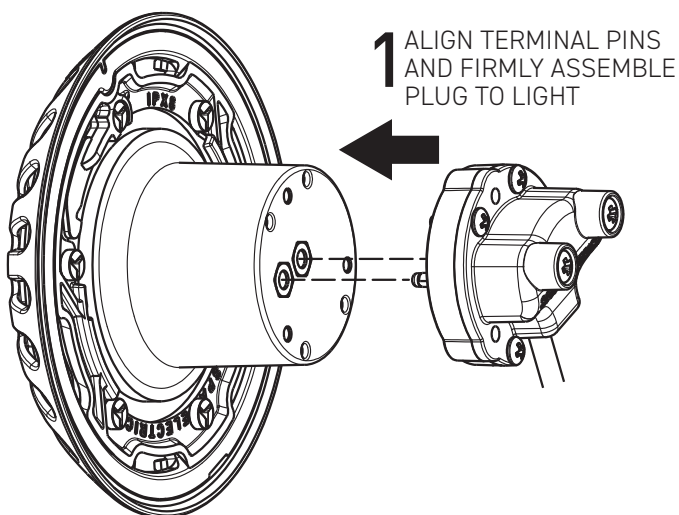
NOTE



DO NOT REMOVE RED DUST COVER UNDERWATER

2

ASSEMBLE PLUG TO LIGHT



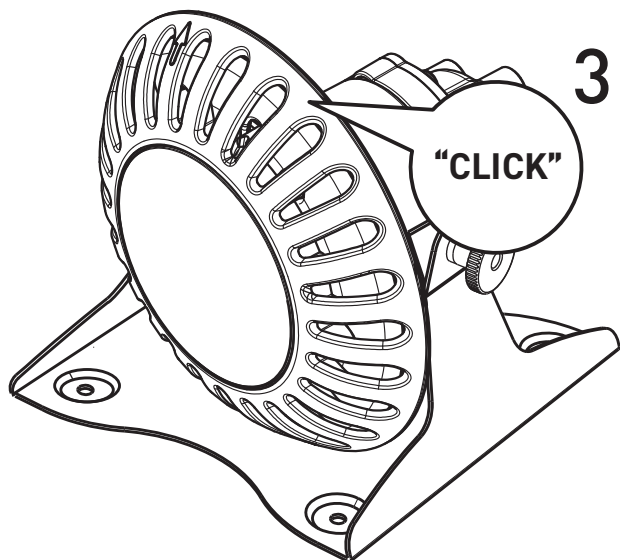
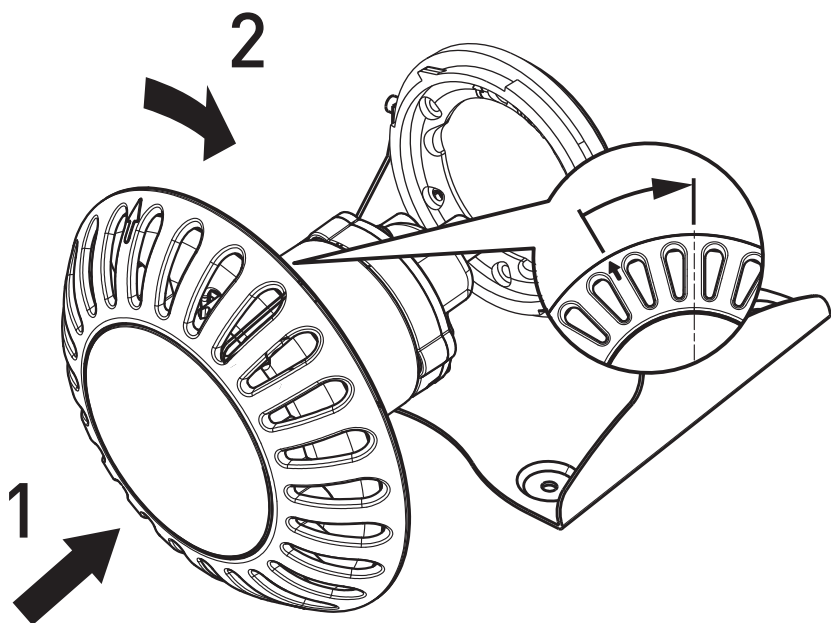
IMPORTANT NOTES



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

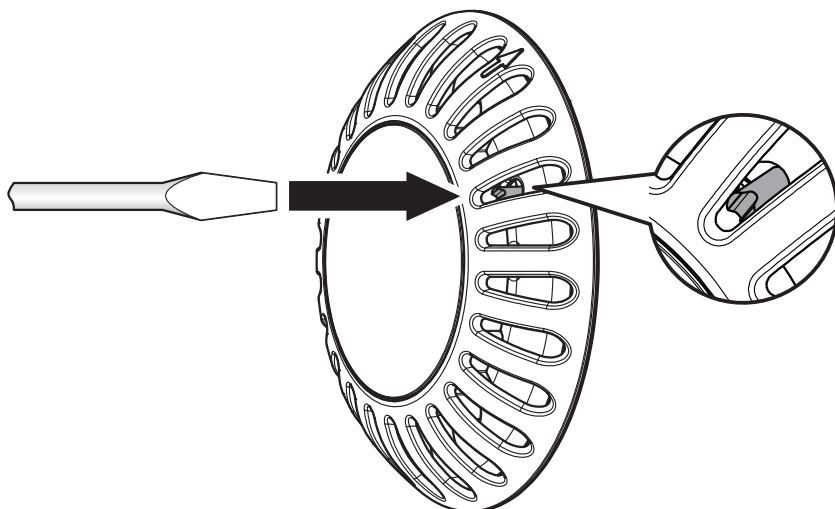
3

ATTACH LIGHT TO BRACKET

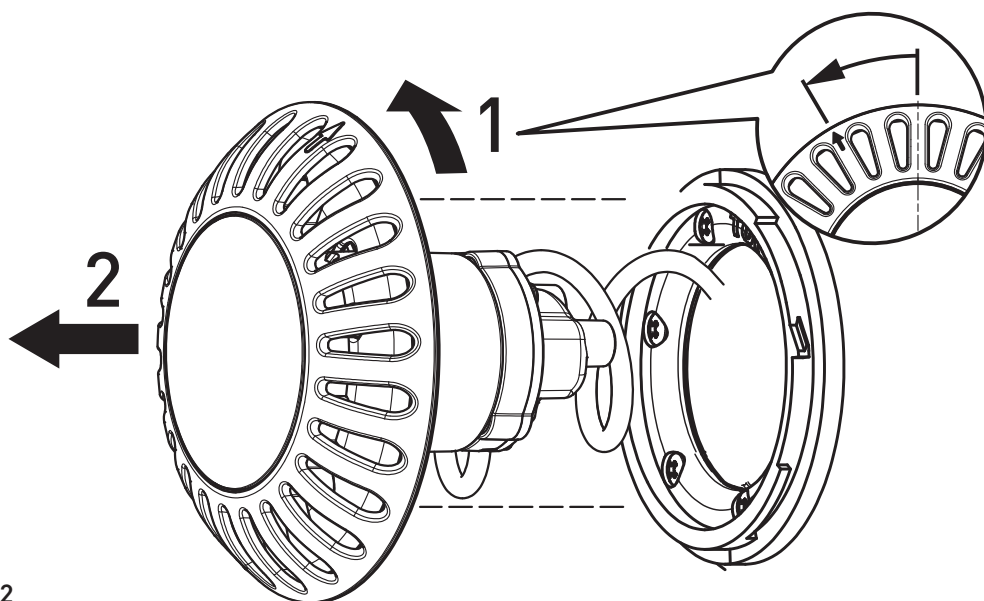


LIGHT REMOVAL

- 1 PUSH DOWN BUTTON WITH FLAT BLADE & HOLD**



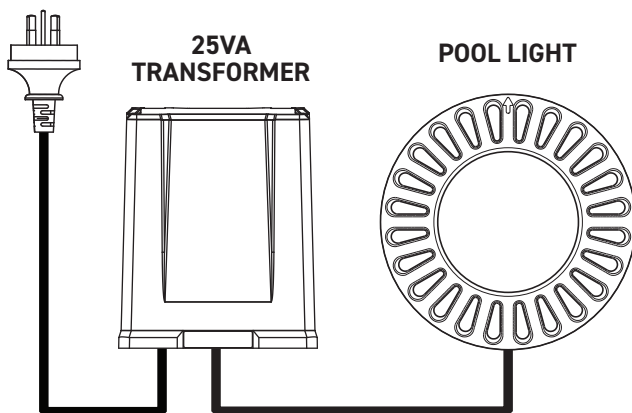
- 2 ROTATE ANTI-CLOCKWISE & RELEASE FROM LOCKING RING**



CONNECTIONS

A HOW TO CONNECT SINGLE LIGHT

TO G.P.O.



B HOW TO CONNECT MULTIPLE LIGHTS

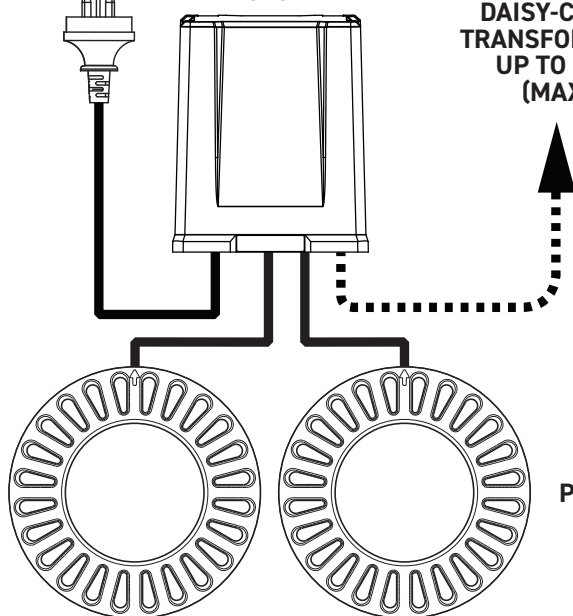
TO G.P.O.

50VA
TRANSFORMER

DAISY-CHAIN
TRANSFORMERS
UP TO 10A
(MAX)

POOL LIGHT

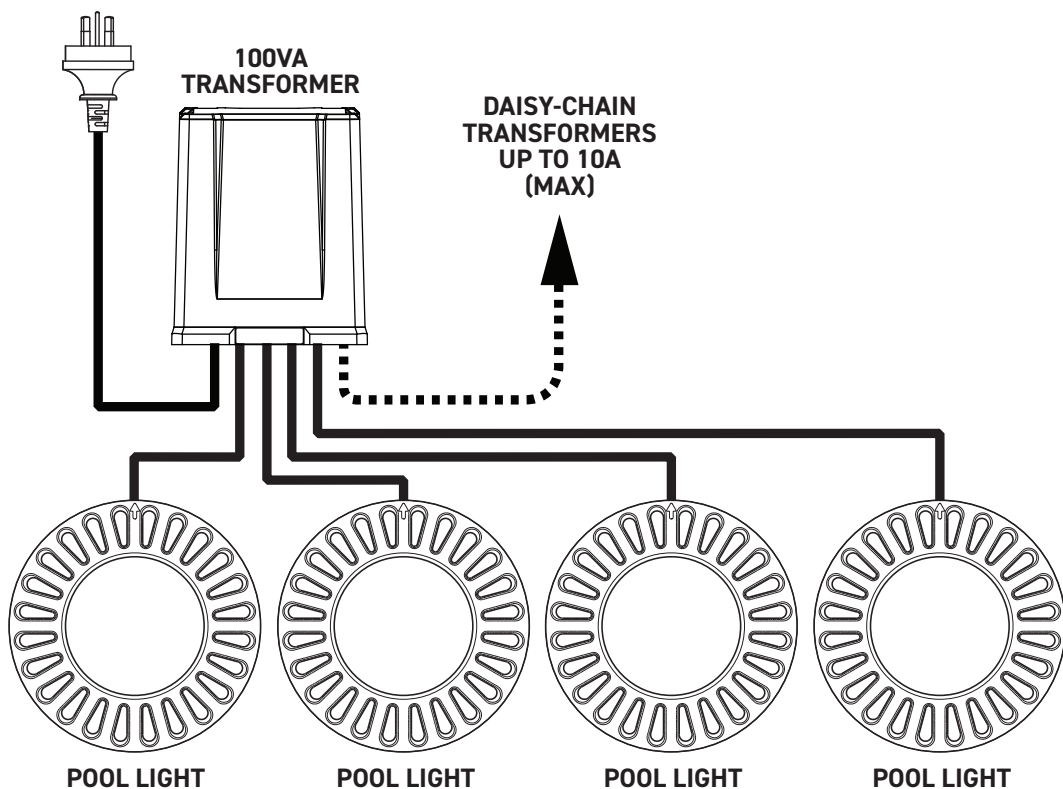
POOL LIGHT



C

HOW TO CONNECT MULTIPLE LIGHTS

TO G.P.O.



TROUBLESHOOTING

ISSUE	REASON	ACTION
Light returns to WHITE colour during manual colour change.	Light synchronization process has been triggered.	Refer to MULTI PLUS User Guide instructions. (Pg. 3)
Light flashes (RED)	Light over heating	Check light is fully submerged. Check vents are not obstructed
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 into 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 multi-meter under load (ie. 15W 12V)
Light colours not synchronized	Incorrect operating mode selected	Refer to MULTI PLUS setup procedure (pg. 9)

If these issues cannot be resolved with the above recommended actions, please contact your local Spa Electrics reseller or Spa Electrics directly.

Web: www.spaelectrics.com



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