

Request for Quote

CRESTON & DISTRICT COMMUNITY COMPLEX POOL LIGHTING UPGRADE PRJ24042

ADDENDUM NO. 1

Issued: May 21, 2025

Closing Date EXTENDED: *2:00 pm Local Time, May 28, 2025

This Addendum shall be read in conjunction with and considered as an integral part of the Contract Documents; revisions supersede the information contained in the original specifications or previously issued Addendum. Price submitted shall include all items of this Addendum.

By this **Addendum No. 1**, dated May 21, 2025, the Invitation to Tender documents for the PRJ24042 shall be amended as specified below.

CLARIFICATIONS:

1. Closing Date Extension

*The Closing Date has been **EXTENDED** from 2:00pm local time May 22, 2025 until **2:00 pm local time May 28, 2025**.

- 2.** Attached specification sheets for transformers, OmniPL Controller and Lighting Installation Manual are for reference only.

Except as modified by Addendum No. 1 issued May 21, 2025, the Invitation to Tender documents for PRJ24042 shall remain unchanged.

Carolyn Hogan
Project Manager

Attachments: 300W Tranformer Specification Sheet
OmniPL Controller Installation Manual
Retro R10 Pool Light Installation Manual
Retro R6 Pool Light Installation Manual

- END OF DOCUMENT -

INTERMATIC®

PX SERIES LOW VOLTAGE
LANDSCAPE AND SWIMMING
POOL/SPA LIGHT TRANSFORMERS

INSTALLATION OPERATION & SERVICE MANUAL

Model: PX100 and PX100S - 100 W Transformers

INPUT: 120 VAC, 1 A MAX, OUTPUT: 12, 13 or 14 VAC, 100 W

Model: PX300 and PX300S - 300 W Transformers

INPUT: 120 VAC, 3 A, MAX, OUTPUT: 12, 13 or 14 VAC, 300 W

Suitable for direct connection to underwater lights and for Indoor/Outdoor installations except in CANADA - Low Voltage Landscape Lighting installation - Outdoor only.

Read and follow the safety instructions listed below and other basic safety precautions before installation or operation of this transformer and other associated equipment.

⚠ WARNING Risk of Fire or Electrical Shock

- If installation involves running wire through a building structure, special wiring methods are needed.
- Do Not submerge transformer.
- Do Not exceed the maximum ratings of individual components, wiring devices, and current carrying capacity of conductors.
- Select cable for each secondary output in accordance with tables in this manual.
- Select power source by combining bulb wattage.
- For landscape lighting appliances, low voltage cable shall be buried a maximum of 6 inches (15.2 cm) in order to connect to the main low voltage cable.

GENERAL INFORMATION

These Safety Transformers are specifically designed to supply 12 volts to pool/spa lights, submersible fixtures and outdoor garden lights. The built-in circuit protection will disconnect power to the transformer in case of defect or overload. These transformers are suitable for direct connection to underwater Pool and Spa lights.

SPECIFICATIONS

Enclosure Size: 7 1/4" (19.4 cm) high x 5 1/4" (13.3 cm) wide x 4 1/2" (11.4 cm) deep. Mounting brackets top and bottom.

Enclosure Type:
PX100 and PX300 - 0.048" corrosion resistant steel with electrostatically applied paint.

PX100S and PX300S - 0.036" Stainless Steel.

Knockouts: Total of ten 1/2"-3/4" combination.
(4) bottom, (2) right side, (2) left side, (2) back.



Pool/Spa Underwater Lighting Application

INSTALLATION

For field wiring information, please refer to the instructions attached to inside of front cover.

- Make sure that all unused taps (leads) are separately insulated.
- Use the following tables as a guide to determine the correct wire size.
- The voltage at lamp terminals after installation should be 12 ± 0.3 VAC.
- Voltages above 12.3 VAC at the light may cause the internal safety fuse of the transformer to switch off and on. To prevent this from happening follow chart below for correct voltage and wire gauge selection.

1. Select power source by combining Bulb wattage.
2. Determine length of cable run(s).
3. Determine wire gauge needed to deliver necessary power.
4. Connect cable to output tap of transformer given in table.

Transformer Cable - Voltage Selection Chart						
Length of Cable	100 W Transformer					
10 ft	13 V	12 V	12 V	12 V	12 V	12 V
25 ft	13 V	13 V	12 V	12 V	12 V	12 V
50 ft	14 V	13 V	13 V	12 V	12 V	12 V
75 ft		14 V	13 V	13 V	12 V	12 V
100 ft			13 V	13 V	13 V	12 V
125 ft			14 V	13 V	13 V	12 V
150 ft			14 V	13 V	13 V	13 V
175 ft			14 V	14 V	13 V	13 V
200 ft				14 V	13 V	13 V
250 ft				14 V	13 V	13 V
Wire Gauge (AWG)	#16*	#14	#12	#10	#8	#6

* Minimum Gauge Cable

**Blank fields indicate conditions not suited for wiring

Transformer Cable - Voltage Selection Chart					
Length of Cable	300 W Transformer				
10 ft	12 V	12 V	12 V	12 V	
25 ft	13 V	13 V	12 V	12 V	
50 ft	13 V	13 V	13 V	13 V	
75 ft		14 V	13 V	13 V	
100 ft		14 V	14 V	13 V	
125 ft			14 V	13 V	
150 ft			14 V	14 V	
175 ft				14 V	
200 ft				14 V	
250 ft				14 V	
Wire Gauge (AWG)	#12*	#10	#8	#6	

* Minimum Gauge Cable

**Blank fields indicate conditions not suited for wiring

LANDSCAPE LIGHTING APPLICATIONS

- Use only CSA or UL certified low-voltage cable.
- Low voltage cable shall be buried a maximum 6 inches (15.2 cm) in order to connect to the main low voltage cable.

Transformer Wattage (W)	Minimum Gauge AWG
300	12
100	16

LIMITED WARRANTY

Warranty service is available by either (a) returning the product to the dealer from whom the unit was purchased or (b) completing a warranty claim online at www.intermatic.com. This warranty is made by: Intermatic Incorporated, 1950 Innovation Way, Suite 300, Libertyville, IL 60048.

For additional product or warranty information go to: <http://www.intermatic.com> or call 815-675-7000.

Because of our commitment to continuing research and improvements, Intermatic Incorporated reserves the right to make changes, without notice, in the specifications and material contained herein and shall not be responsible for any damages, direct or consequential, caused by reliance on the material presented.

INTERMATIC INCORPORATED, LIBERTYVILLE, IL 60048
<http://www.intermatic.com>

SE Spa Electrics®

retro®

REPLACEMENT LED POOL LIGHT

**POOL LIGHT (UNIVERSAL)
INSTALLATION**

**R6 INSTALLATION &
OWNER'S MANUAL**

CONTENTS

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IMPORTANT NOTES



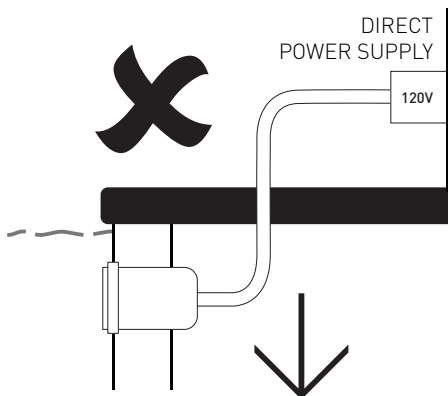
FRESH WATER USE ONLY

NOT INTENDED FOR OPERATION OUT OF WATER

PRE-INSTALLATION CHECK

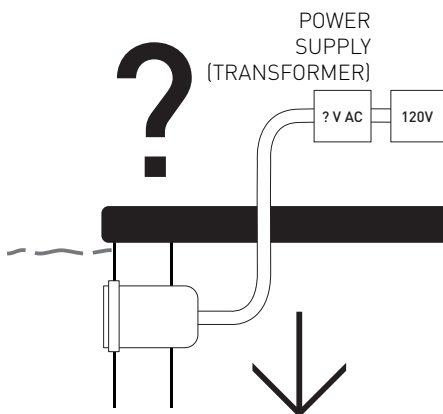
1 CHECK POWER SUPPLY

1A: IF THE POOL LIGHTS ARE DIRECTLY CONNECTED TO A 120V POWER SUPPLY, DO NOT CONTINUE INSTALLATION



1B: A 12V AC TRANSFORMER **MUST** BE INSTALLED BETWEEN THE 120V POWER SUPPLY AND POOL LIGHT

2A: IF THE POOL LIGHTS ARE CONNECTED TO A TRANSFORMER, CHECK THAT IT MEETS STEP 1B REQUIREMENTS



2B: IF THE TRANSFORMER DOES NOT MEET THE REQUIREMENTS, IT WILL REQUIRE REPLACEMENT

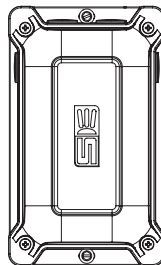
2 ADD TRANSFORMER (IF NEEDED)

EXISTING TRANSFORMER MUST BE:

- UL Listed Isolating Low Voltage power supply, evaluated for swimming pool use
- Installed as per current NEC wiring rules
- 12~14V AC output
- Minimum 15W per Retro Series Pool light
- In good working order

EXISTING TRANSFORMER MUST NOT BE:

- DC or 'LED Driver'
- Electronic or Switch mode
- Weather damaged or in otherwise poor condition



Models Available:

LVX50
LVX50P
LVX100
LVX100P

Spa Electrics recommends **"LVX"** safety transformers for use with **Retro Universal** lights

3

CHECK CABLE THICKNESS

RETRO UNIVERSAL CAN FIT CABLES FROM 9/32" (7mm) UP TO 9/16" (14mm) DIAMETER

Max $\varnothing$
9/16 inch
(14mm)



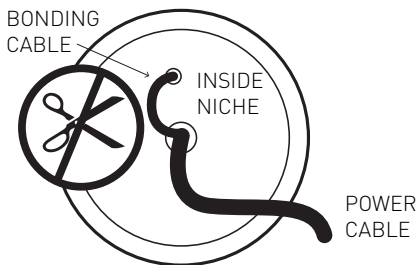
4

CHECK BONDING

ENSURE BONDING IS SECURE AT THE BACK OF THE NICHE

DO NOT CUT THE BONDING CABLE

DO NOT DISTURB THE BONDING CABLE WHEN WORKING WITH THE PLUG CABLE



ELECTRICAL GROUNDING



DUE TO ITS PLASTIC HOUSING DESIGN, THE RETRO UNIVERSAL LUMINAIRE DOES NOT REQUIRE GROUNDING / BONDING.

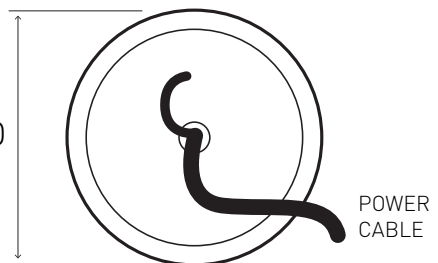
SEE PAGE 26 FOR MORE INFORMATION

5

CHECK NICHE DIAMETER

THE RETRO UNIVERSAL IS DESIGNED TO WORK WITH 6 INCH OUTSIDE DIAMETER NICHE

6 inch OD



REFER TO **APPENDIX A** FOR A LIST OF NICHE THE R6 RETRO UNIVERSAL HAS BEEN UL TESTED WITH

READ THIS FIRST

Congratulations on your purchase of a Spa Electrics Retro Universal Series Pool Light. This light has been designed in conjunction with leading pool professionals across the USA and manufactured solely in Australia.

The Retro Series Pool light is designed to quickly and easily replace existing LOW VOLTAGE, 6" Pool Light (PAR 38) fittings from major brands. Its patented cam-lock system allows for simple installation in situations where the existing niche hardware has been damaged or is no longer serviceable.

For safe and proper installation, please read this manual in full before commencing installation and use only the parts (screws, plugs, sealant, etc) as provided.

For operating instructions, please refer to the MULTI PLUS Operating Manual. (Provided)

NOTE: The use of DC / Electronic (or Switch mode) power supplies is not permitted as they can cause disruptions in the light's normal operation & in some cases damage the light's internal electronic components. For more information, please contact Spa Electrics Inc.

WARNING



- Ensure sufficient cable is coiled behind the light to allow for servicing (~12 to 24inch)
 - Ensure only circular cable not exceeding 9/16" (14mm) diameter is connected to the **Retro Universal** Light. The use of Fig. 8 or non-circular cable will not seal correctly & will void the product warranty.
 - The Retro Universal LED Light does not contain any user-serviceable parts, opening the light will void the product warranty.
 - Pool chemicals & pH levels: Due to the corrosive nature of unbalanced pool water, Spa Electrics strongly recommends 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.

TOOLS REQUIRED

✓ Phillips head screwdriver

✓ Small flat blade screwdriver

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



- Lights must be removed from the pool wall and cable disconnected via plug connection & stored in a safe place.
- Winterization Cover must be fitted to Plug Top prior to reinstalling into the niche for winter.
- Unless niche/conduit connection is adequately sealed (i.e. via included cable gland components), the pool water level must be drained down 12" below the lowest light(s) position in the pool wall.
- All conduits should be checked for accumulated water and drained if required.
- Follow instructions on page 22 OR consult your local pool professional for a complete pool winterization process.

PRODUCT SUPPORT & INFORMATION

CANADA

Select Pool Products

Tel: 1-855-881-0889

Email: info@selectpoolproducts.ca

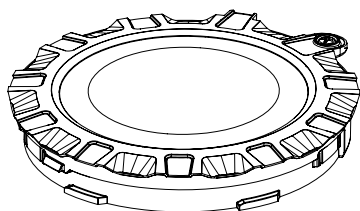
www.selectpoolproducts.ca

INTERNATIONAL

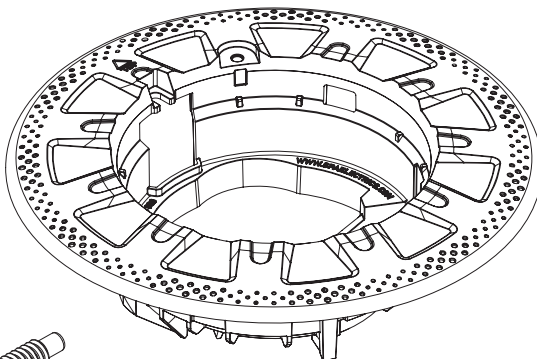
Spa Electrics Pty Ltd

www.spaelectrics.ca

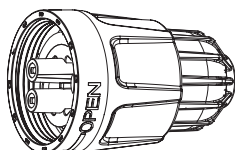
INCLUDED PARTS



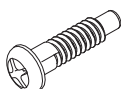
LIGHT ASSEMBLY



NICHE ADAPTOR
(P/N: R6C 008)



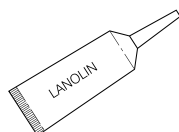
PLUG ASSEMBLY
(PROVIDED AS COMPONENTS SEE BELOW)
(P/N: N3 003)



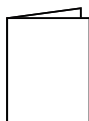
**NICHE ADAPTOR
MOUNTING SCREW**



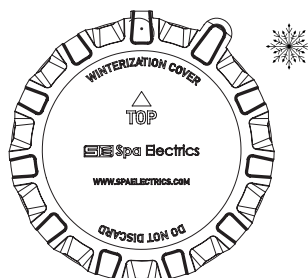
**LIGHT MOUNTING
SCREW (SPARE)**



LANOLIN

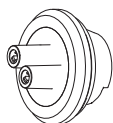


**1 X WARRANTY
CARD**



WINTERIZATION COVER
(P/N: R6C 001)

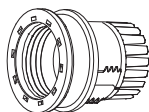
PLUG ASSEMBLY COMPONENTS (P/N: N3 003)



**Screw
Terminal
End**



**Strain Relief
Clip
(Optional)**



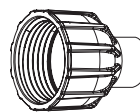
**Connector
Barrel**



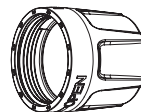
**Glands X 3
Sizes
Provided**



**Gland Nut
(Small Size)**



**Gland Nut
(Large Size)**



**Connector
Collar**

REQUIRED PART (NOT INCLUDED)



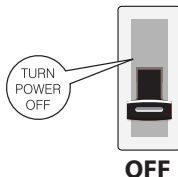
UL LISTED ISOLATING LOW VOLTAGE POWER SUPPLY, EVALUATED FOR SWIMMING POOL USE.

Installed as per current NEC wiring rules. 12~14V AC output. Minimum 15W per Retro Series Pool Light. Spa Electrics recommends the use of its "LVX Series" safety transformers with the **Retro Series** lights.

A: CONNECTION TO CABLE

STOP! WARNING ELECTROCUTION

CHECK POWER IS
TURNED OFF
FIRST

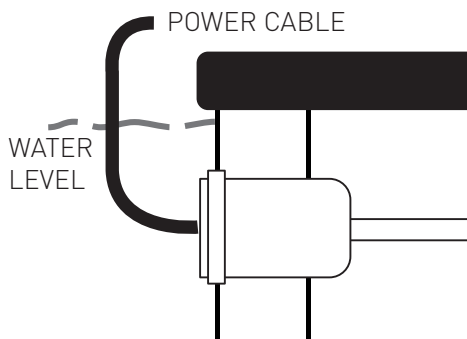
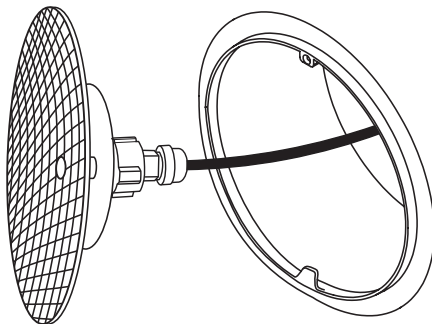


TURN OFF BREAKER
TO POOL LIGHT
TRANSFORMER

1 REMOVE EXISTING LIGHT

REMOVE EXISTING LIGHT FROM NICHE
AND BRING TO THE SURFACE FOR
CONNECTION

**ENSURE YOU DON'T DISTURB THE
BONDING CABLE**



IMPORTANT NOTE



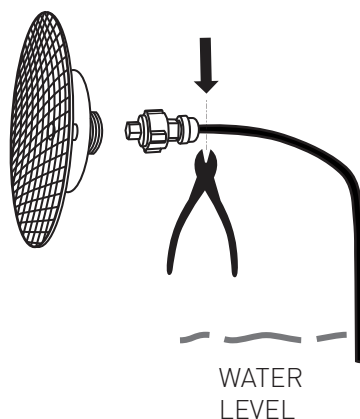
ALL CABLE CONNECTIONS ARE TO BE
DONE AT SURFACE LEVEL, AND OUT OF
WATER

2

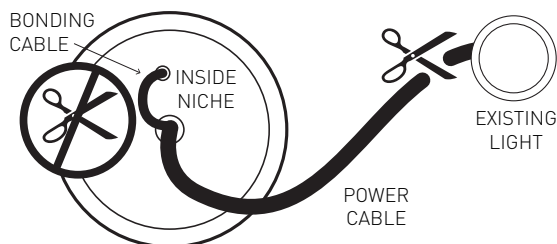
DISCONNECT EXISTING LIGHT

DISCONNECT LIGHT FROM
POWER CABLE

CUT POWER CABLE AS CLOSE
TO BACK OF EXISTING LIGHT AS
POSSIBLE



ENSURE BONDING CABLE IS NOT CUT OR DISTURBED



3

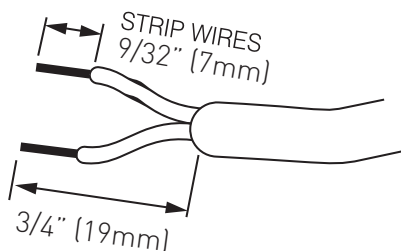
CABLE PREPARATION

STRIP POWER CABLE TO SPECIFIED LENGTH

NOTE



IF CABLE LENGTH ALLOWS, CUT CABLE
BACK UNTIL FRESH COPPER APPEARS.



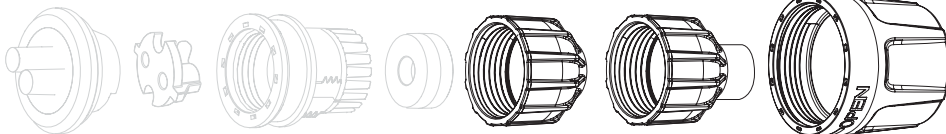
4

START ASSEMBLY OF CONNECTOR PLUG

LANOLIN USE



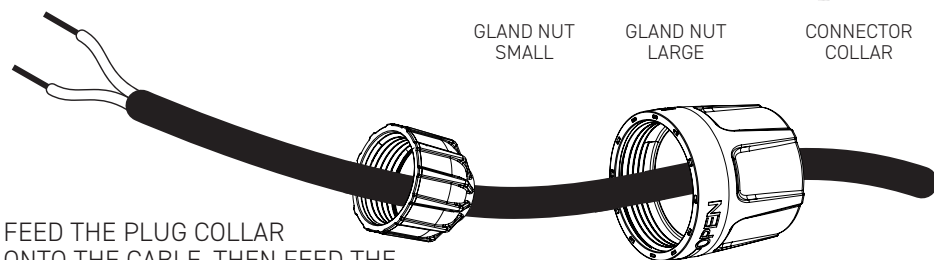
GENTLY WARM
LANOLIN
BEFORE USE



GLAND NUT
SMALL

GLAND NUT
LARGE

CONNECTOR
COLLAR



FEED THE PLUG COLLAR
ONTO THE CABLE, THEN FEED THE
APPROPRIATE GLAND NUT ONTO THE CABLE

5

CHOOSE THE APPROPRIATE GLAND



GLANDS
X 3 SIZES
PROVIDED

SELECT THE
APPROPRIATE CABLE
GLAND FROM THE
THREE SUPPLIED THAT
SNUGLY FITS THE
EXISTING POWER CABLE
WITHOUT BULGING



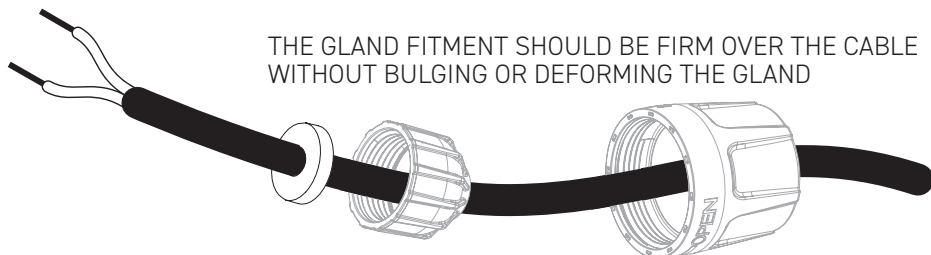
SMALL GLAND
RED



MEDIUM GLAND
BLUE



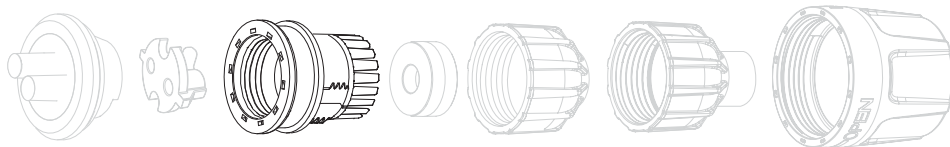
LARGE GLAND
GREEN



THE GLAND FITMENT SHOULD BE FIRM OVER THE CABLE
WITHOUT BULGING OR DEFORMING THE GLAND

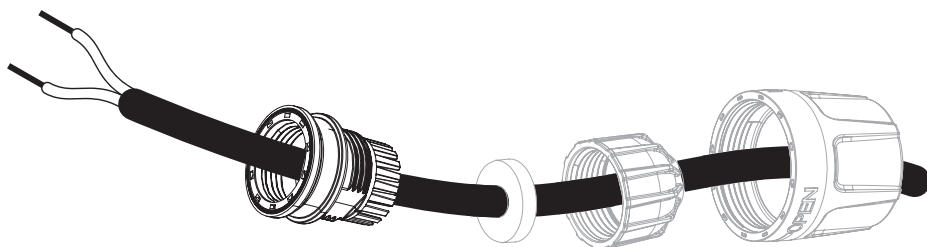
6

CONTINUE ASSEMBLY OF CONNECTOR PLUG



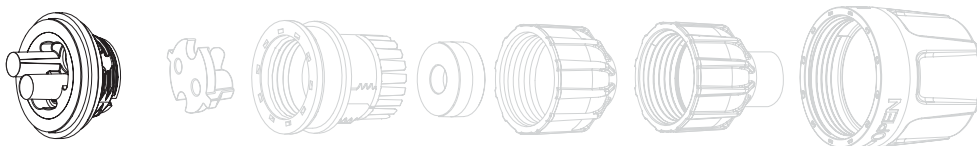
CONNECTOR
BARREL

FEED THE CONNECTOR BARREL ONTO THE CABLE



7

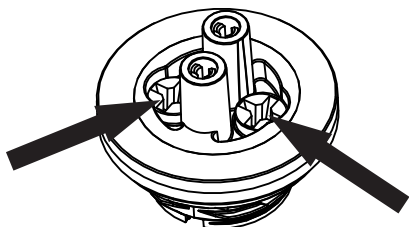
CHECK SCREWS ON SCREW TERMINAL END



SCREW
TERMINAL END

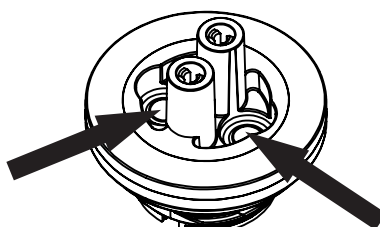
CHECK IF SCREWS ARE PRESENT IN THE TOP OF THE SCREW TERMINAL END

WITH SCREWS



USE A MANUAL PHILLIPS HEAD SCREWDRIVER TO ENSURE THAT THE 2 SCREWS INDICATED ARE FULLY SEATED. PROCEED TO STEP 8.

WITHOUT SCREWS

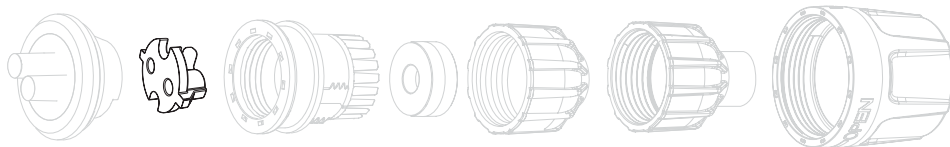


CHECK THERE ARE NO HOLES IN THE INDICATED LOCATIONS.

PROCEED TO STEP 8.

8

STRAIN RELIEF CLIP



STRAIN RELIEF CLIP
(OPTIONAL)

OPTION 1: WHEN USING THE MEDIUM OR LARGE CABLE GLANDS, THE STRAIN RELIEF CLIP IS NOT REQUIRED.
FOLLOW STEP 9A (IGNORE STEP 9B).

OPTION 2: THE STRAIN RELIEF CLIP MUST BE USED WHEN THE SMALL CABLE GLAND IS USED.
FOLLOW STEP 9B (IGNORE STEP 9A).

STRAIN RELIEF CLIP REQUIRED



SMALL
GLAND



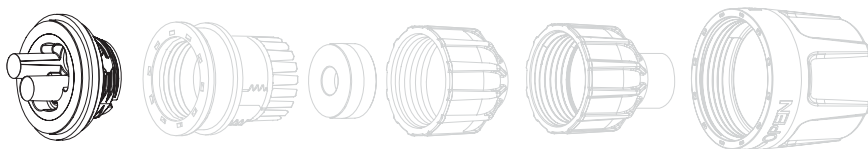
MEDIUM
GLAND



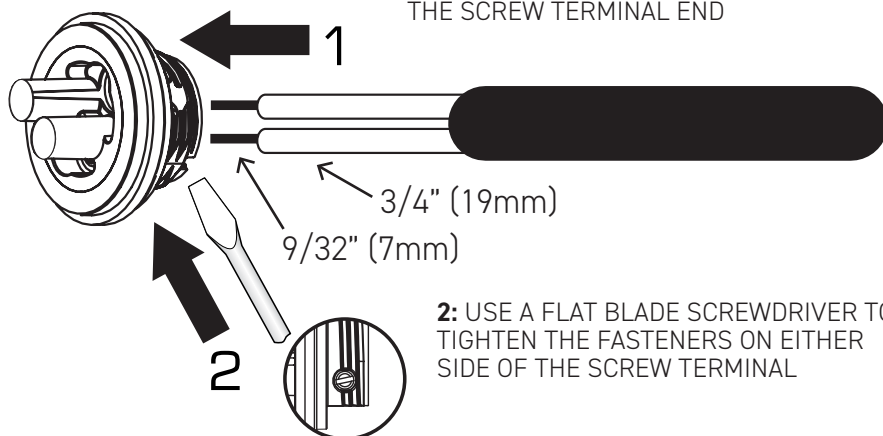
LARGE
GLAND

9A

CONNECT THE SCREW TERMINAL END



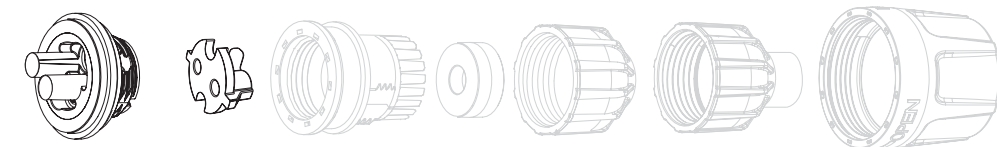
1: FEED THE TWO STRIPPED CABLE ENDS THROUGH THE TWO HOLES IN THE BACK OF THE SCREW TERMINAL END



2: USE A FLAT BLADE SCREWDRIVER TO TIGHTEN THE FASTENERS ON EITHER SIDE OF THE SCREW TERMINAL

9B

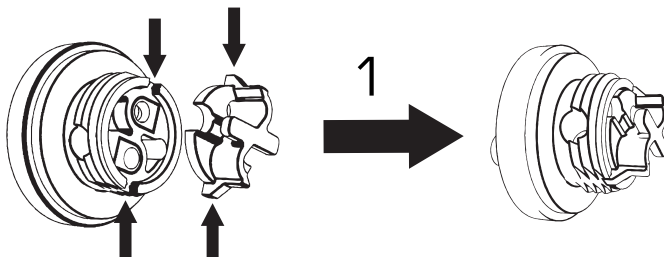
CONNECT THE SCREW TERMINAL END



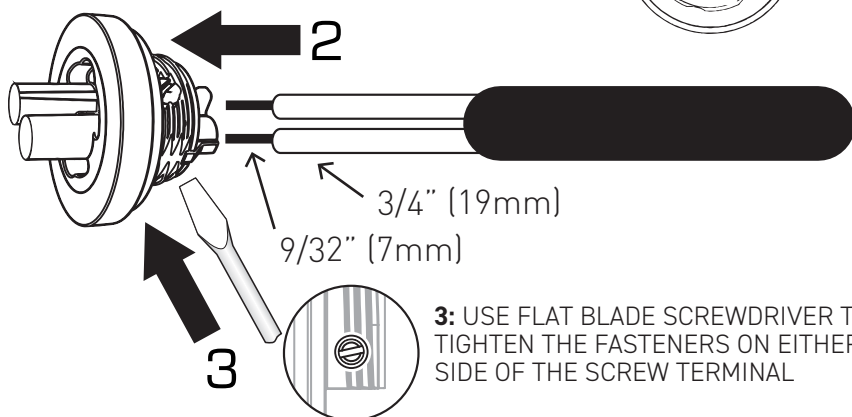
SCREW
TERMINAL END

STRAIN RELIEF
CLIP

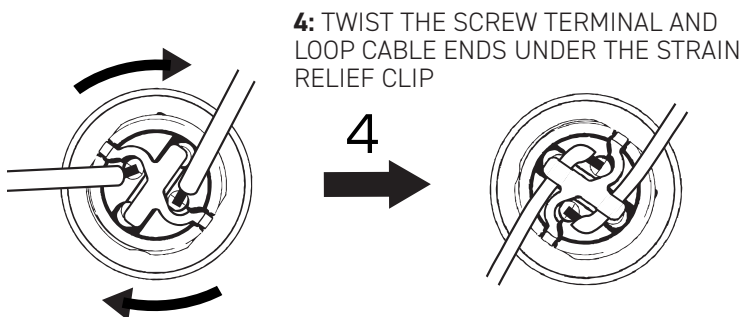
**1: ATTACH THE STRAIN
RELIEF CLIP TO THE
SCREW TERMINAL END**



**2: FEED THE TWO STRIPPED CABLE ENDS
THROUGH THE TWO HOLES IN THE BACK OF
THE SCREW TERMINAL END**



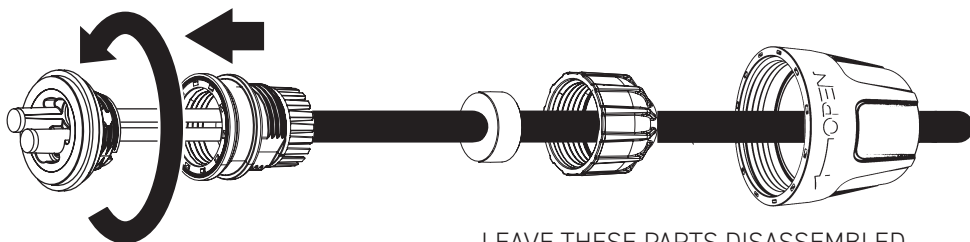
**3: USE FLAT BLADE SCREWDRIVER TO
TIGHTEN THE FASTENERS ON EITHER
SIDE OF THE SCREW TERMINAL**



**4: TWIST THE SCREW TERMINAL AND
LOOP CABLE ENDS UNDER THE STRAIN
RELIEF CLIP**

10 START ASSEMBLY OF CONNECTOR PLUG

CAREFULLY THREAD CONNECTOR BARREL ONTO SCREW TERMINAL AND TIGHTEN FIRMLY BY HAND



LEAVE THESE PARTS DISASSEMBLED UNTIL AFTER ADDING LANOLIN

11 ADD LANOLIN

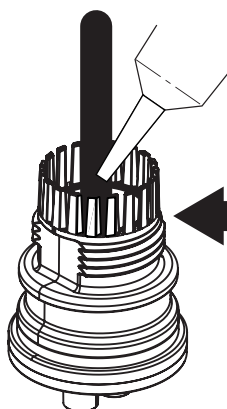
LANOLIN USE



GENTLY WARM
LANOLIN
BEFORE USE



FILL BACK OF CONNECTOR BARREL WITH LANOLIN UP TO THE INDICATED POINT



FILL TO HERE
(ALLOWING ROOM FOR GLAND)

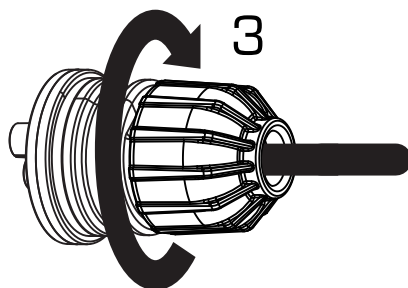
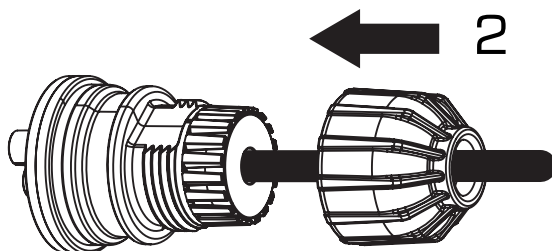
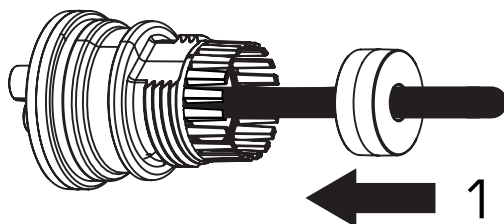
12

CONTINUE ASSEMBLY OF CONNECTOR PLUG

1: SEAT CABLE GLAND ALL THE WAY INTO CONNECTOR (DO A VISUAL CHECK TO MAKE SURE A SEAL BETWEEN GLAND AND CABLE)

2: CAREFULLY THREAD GLAND NUT ONTO CONNECTOR BARREL

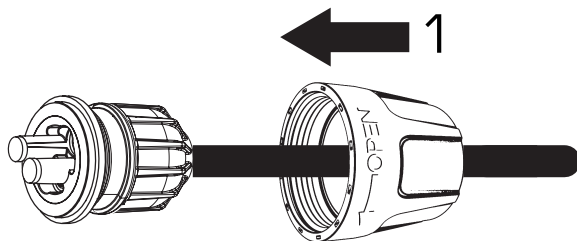
3: TIGHTEN GLAND NUT FIRMLY BY HAND



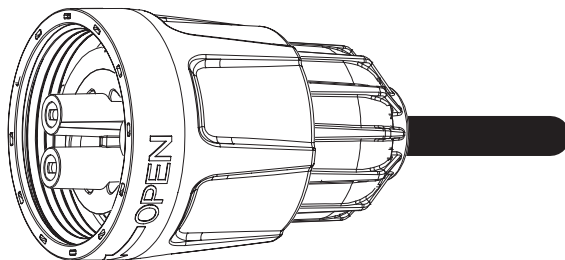
13

CONTINUE ASSEMBLY OF CONNECTOR PLUG

1: SLIDE CONNECTOR COLLAR ALL THE WAY TO THE END READY FOR ATTACHMENT TO THE LIGHT ASSEMBLY



ASSEMBLED VIEW OF CONNECTOR PLUG



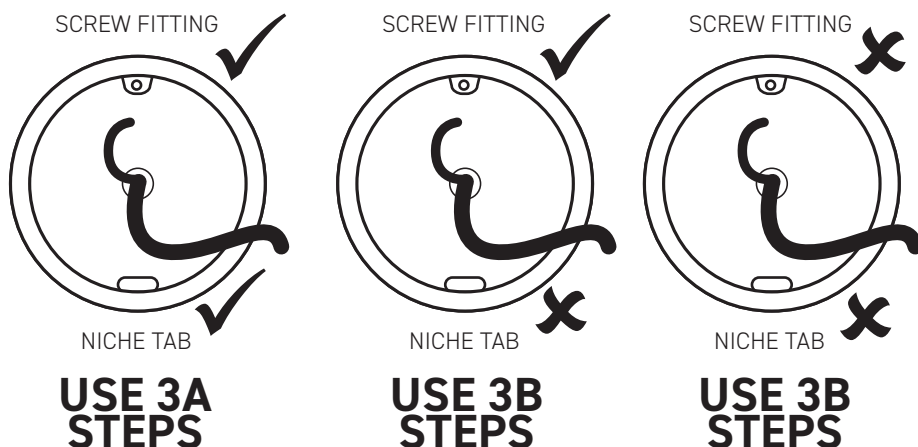
B: ATTACH NICHE ADAPTOR

1 CHECK QUALITY OF NICHE

ENSURE NICHE TAB AND SCREW FITTING IS INTACT, NOT DAMAGED OR CORRODED AND FIT FOR PURPOSE

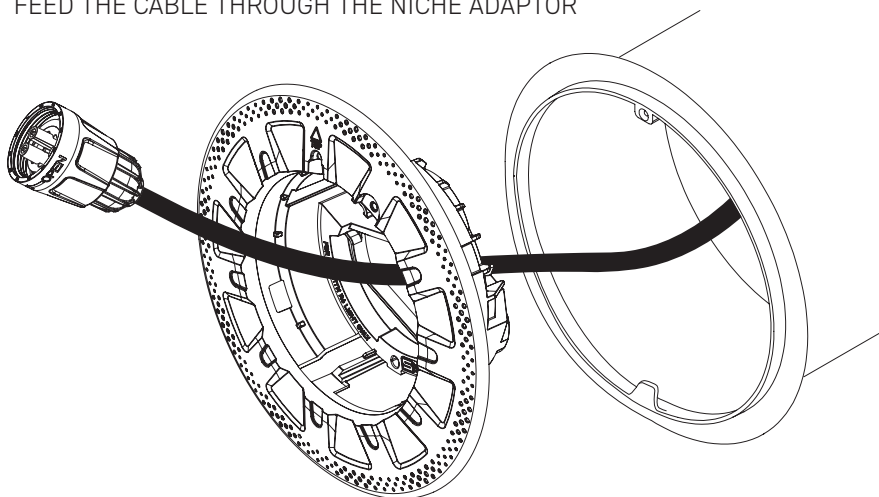
IF THE NICHE TAB AND SCREW FITTING IS INTACT: THEN FOLLOW **3A STEPS**

IF ANY PARTS ARE BROKEN OR NOT SERVICEABLE, FOLLOW **3B STEPS**



2 INSERT NICHE ADAPTOR

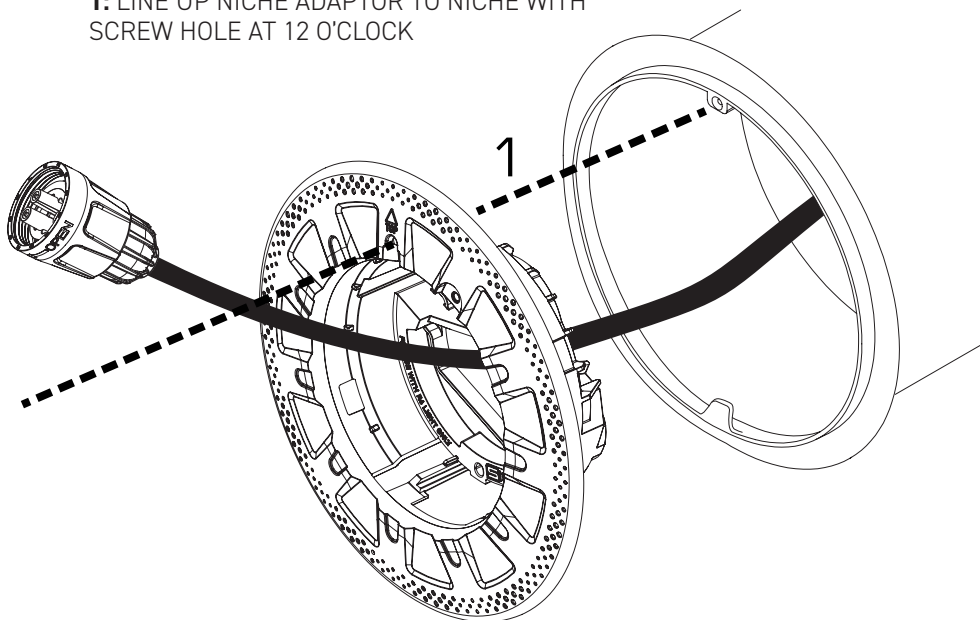
FEED THE CABLE THROUGH THE NICHE ADAPTOR



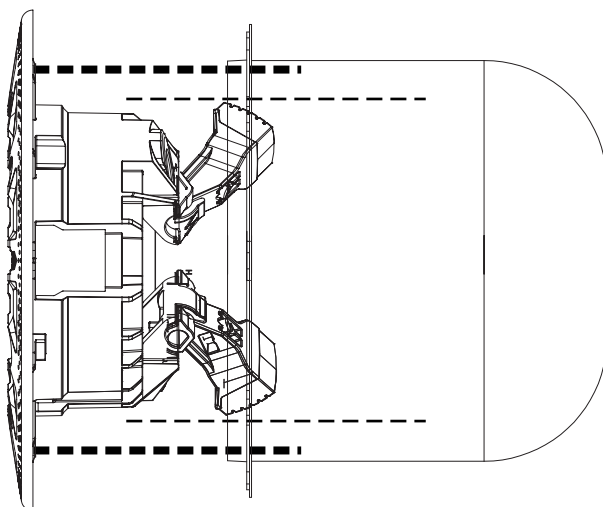
3A

IF NICHE TAB & SCREW FITTING IS INTACT

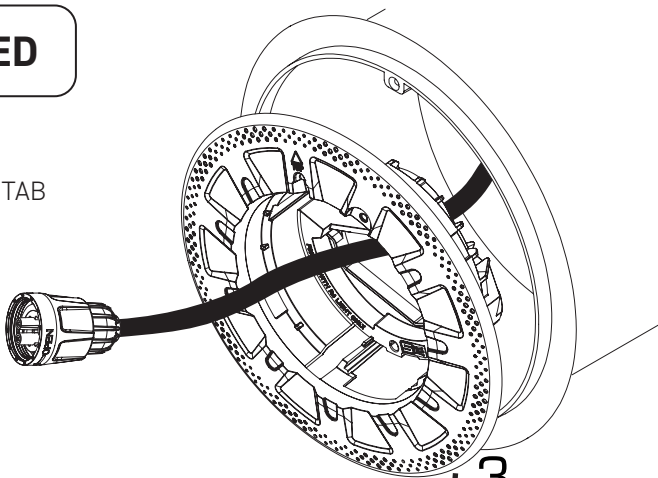
1: LINE UP NICHE ADAPTOR TO NICHE WITH
SCREW HOLE AT 12 O'CLOCK



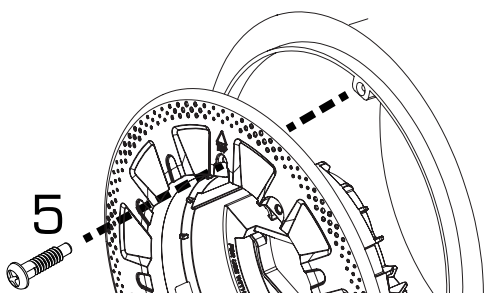
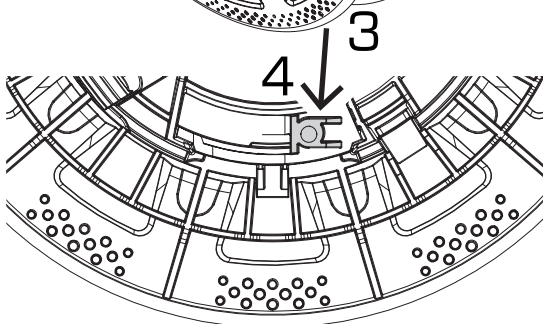
2: ENSURE CAM LOCKS FIT INSIDE NICHE NEATLY



3: PLACE BASE OF ADAPTOR TAB INTO THE NICHE TAB

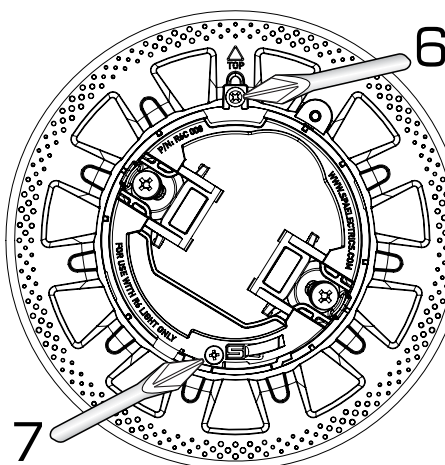


4: ENSURE THE ADAPTOR TAB SITS FIRMLY IN THE NICHE TAB



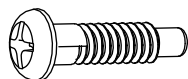
5: ALIGN THE TOP SCREW WITH THE SCREW HOLE INSIDE THE NICHE

6: USE A SCREWDRIVER TO FIX THE NICHE ADAPTOR TO THE NICHE USING THE MOUNTING SCREW



7: TIGHTEN THE LOWER SCREW IN THE ADAPTOR TAB

8: GO TO SECTION C: CONNECT LUMINAIRE

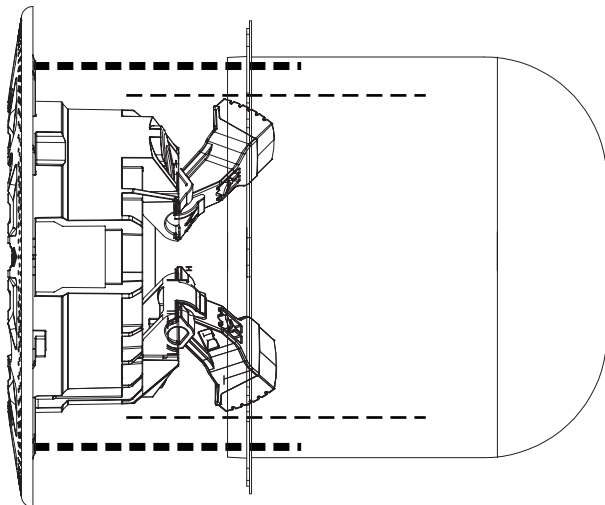


3B

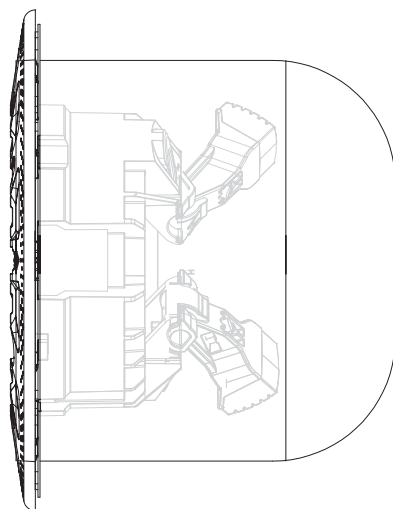
IF NICHE TAB & SCREW FITTING IS NOT INTACT

1: CENTRE NICHE ADAPTOR INTO NICHE, SO THE SCREW HOLE IS AT 12 O'CLOCK, OR LINES UP WITH THE SCREW FITTING ON NICHE

ENSURE THE CAM LOCKS GO INTO THE NICHE EASILY



2: PUSH THE NICHE ADAPTOR INTO THE WALL SO IT SITS FLUSH AND IS FULLY INSERTED INTO THE NICHE

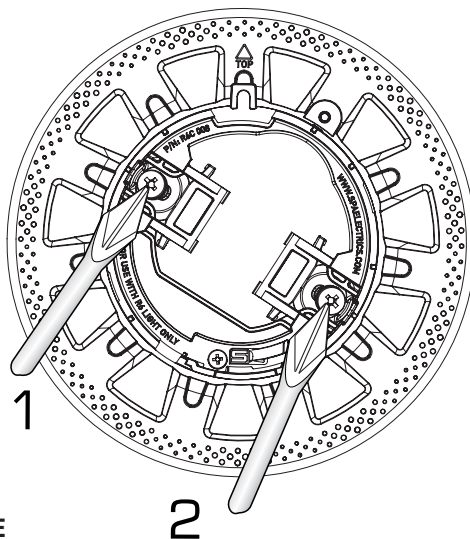


TIGHTEN THE TWO CAM LOCK SCREWS EQUALLY AND IN ROTATION, AS SHOWN, BY HAND UNTIL YOU FEEL THE NICHE ADAPTOR IS SECURE IN PLACE

DO NOT OVERTIGHTEN

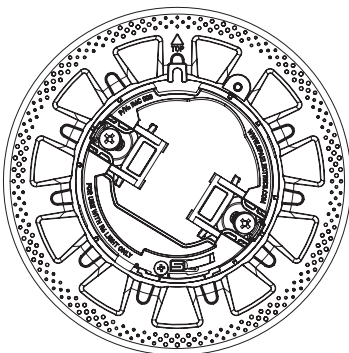
CHECK FOR SECURE FITTING, THE NICHE ADAPTOR SHOULD BE FIRM AND NOT ABLE TO MOVE EASILY BY HAND

GO TO SECTION C: **CONNECT LUMINAIRE**

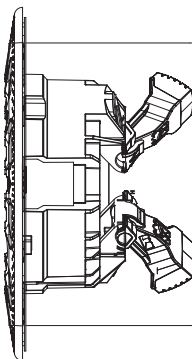


AS THE CAM LOCK SCREWS TIGHTEN, THE CAM LOCKS WILL MOVE IN AND UP, PULLING THE NICHE ADAPTOR FIRMLY INTO THE NICHE

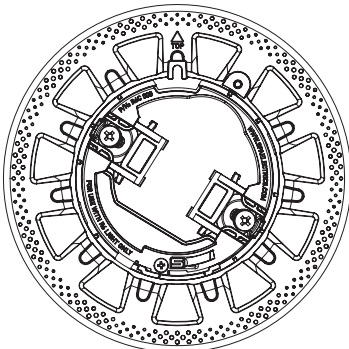
MINIMUM
CAM LOCK
POSITION
(LOOSE)



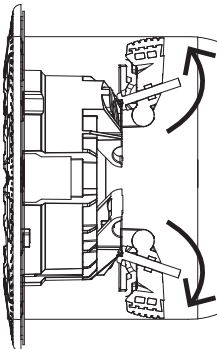
TIGHTEN SCREWS
TO PULL NICHE
ADAPTOR INTO
NICHE



MAXIMUM
CAM LOCK
POSITION
(TIGHT)



WHEN ALL CAM
LOCKS ARE
SCREW TIGHT,
THE CAM LOCKS
SIT TIGHT
AGAINST THE
INSIDE OF THE
NICHE, AND THE
NICHE ADAPTOR
IS PULLED
FURTHER INTO
THE WALL



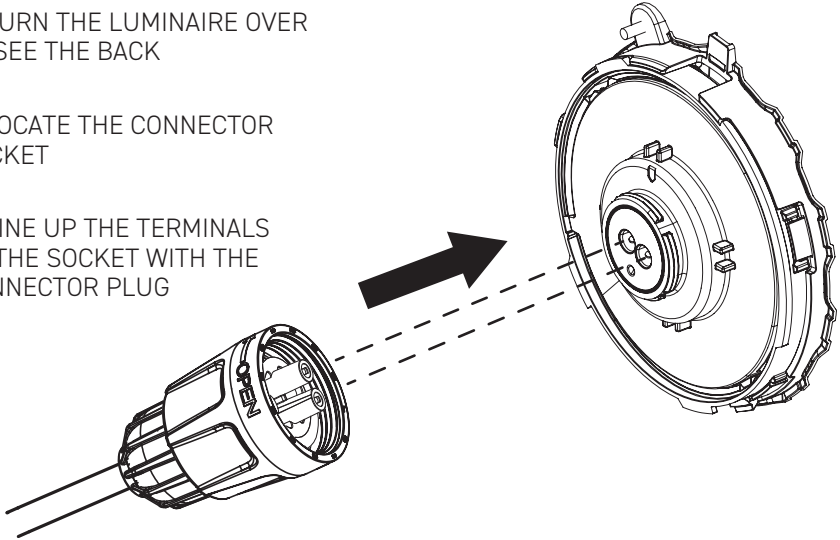
C: CONNECT LUMINAIRE

1 ALIGN UP AND CONNECT CONNECTOR PLUG

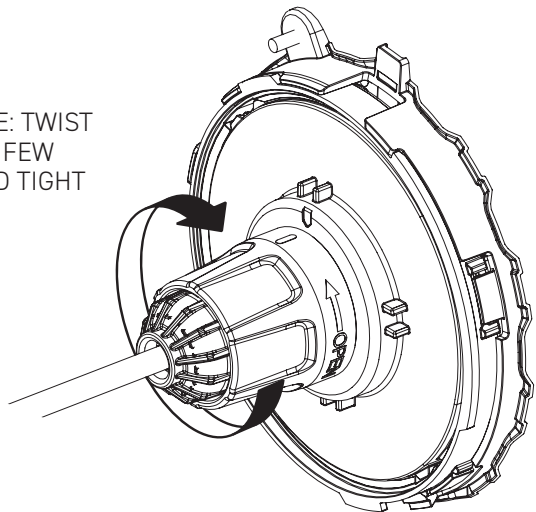
1: TURN THE LUMINAIRE OVER TO SEE THE BACK

2: LOCATE THE CONNECTOR SOCKET

3: LINE UP THE TERMINALS OF THE SOCKET WITH THE CONNECTOR PLUG

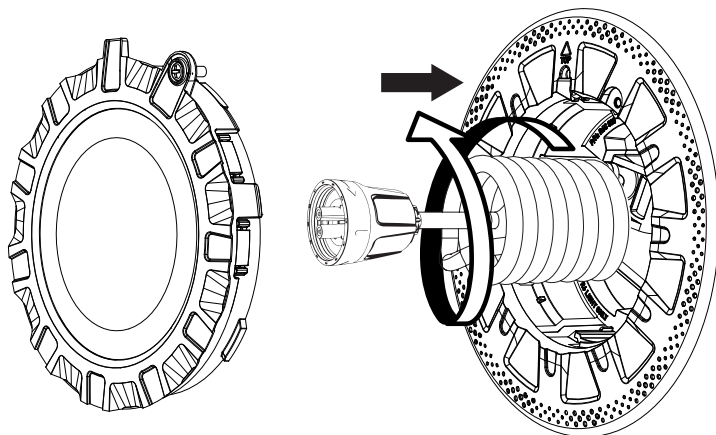


4: TO LOCK INTO PLACE: TWIST COLLAR CLOCKWISE A FEW TIMES UNTIL IT'S HAND TIGHT

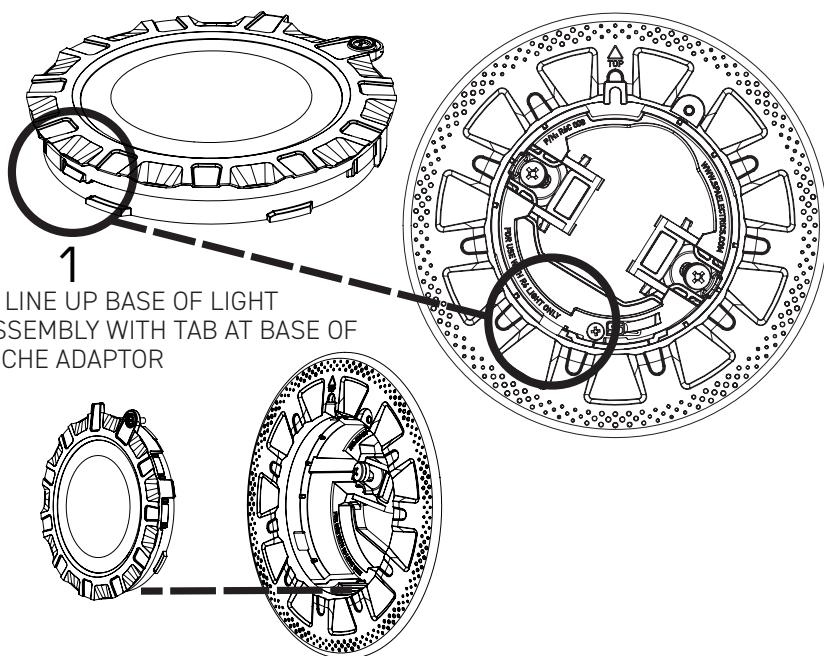


D: FIT LIGHT TO NICHE

1 COIL EXCESS CABLE INTO NICHE



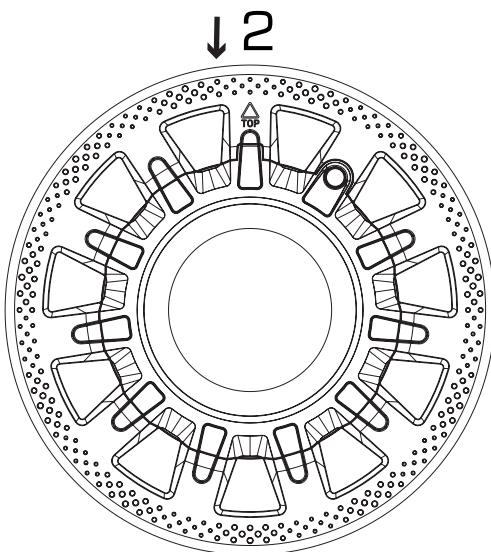
2 CONNECT LIGHT ASSEMBLY



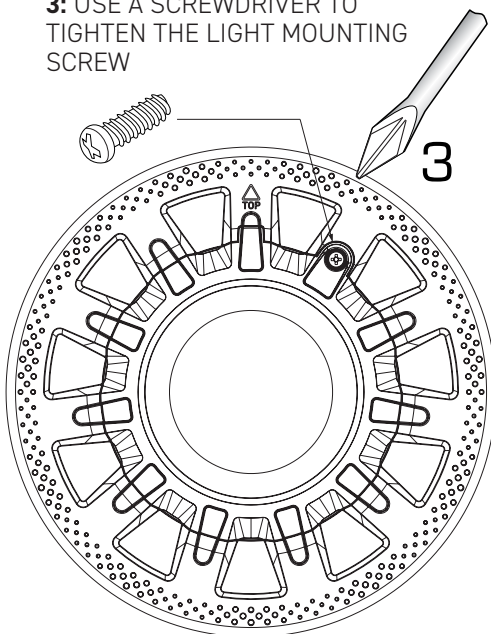
1: LINE UP BASE OF LIGHT ASSEMBLY WITH TAB AT BASE OF NICHE ADAPTOR

2**...CONTINUED**

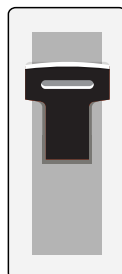
2: PUSH LUMINAIRE INTO PLACE
ENSURING TAB LOCATES AT TOP
AT 12 O'CLOCK



3: USE A SCREWDRIVER TO
TIGHTEN THE LIGHT MOUNTING
SCREW

**POST INSTALLATION CHECK****1****TEST SYSTEM**

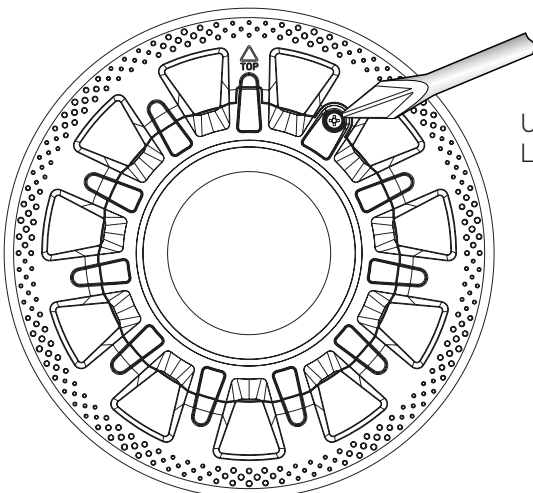
TURN ON POWER AND CHECK
ALL WORKING CORRECTLY

ON

TURN ON BREAKER
TO POOL LIGHT
TRANSFORMER

WINTERIZATION

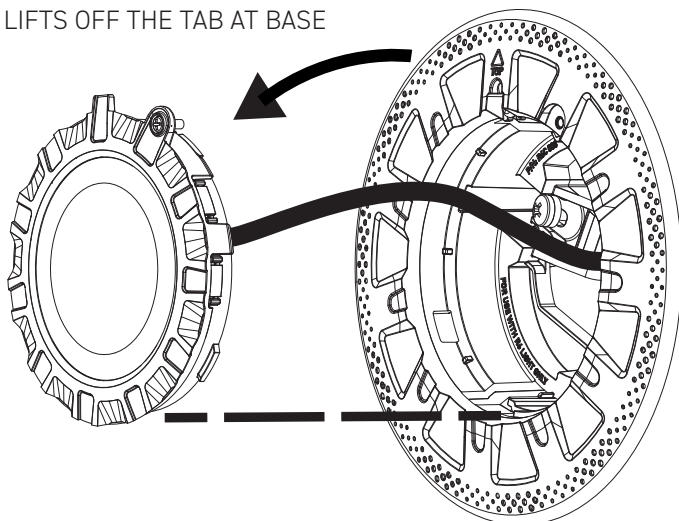
1 DETACH THE LIGHT ASSEMBLY



USE A SCREWDRIVER TO
LOOSEN THE SCREW

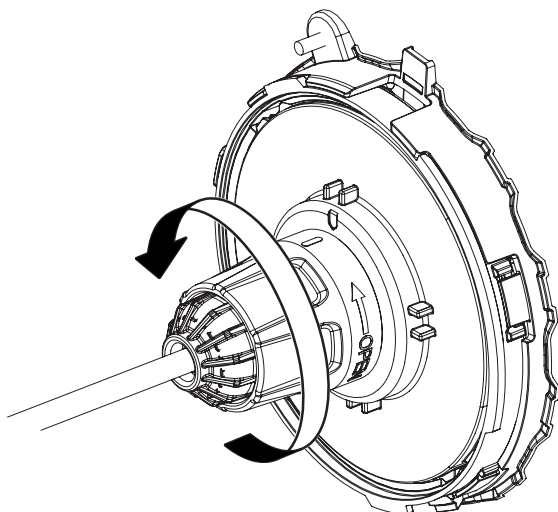
2 PULL OUT LIGHT ASSEMBLY

PULL THE LIGHT ASSEMBLY FORWARD AND UP
SO IT LIFTS OFF THE TAB AT BASE



3

UNLOCK THE PLUG

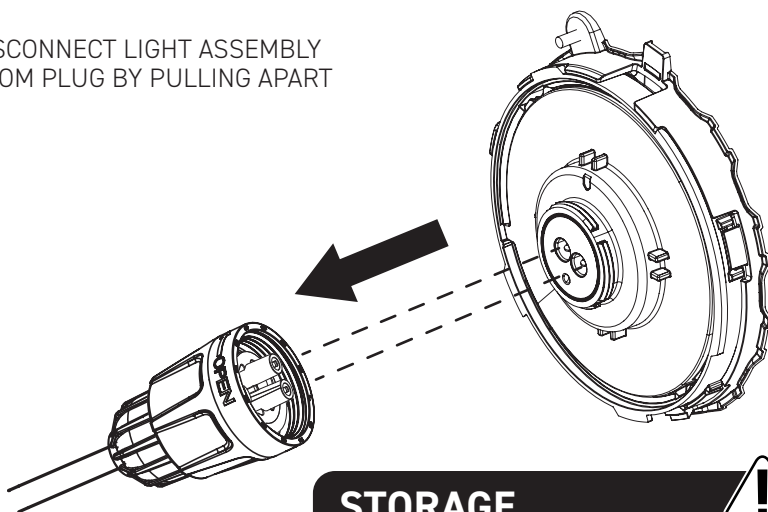


UNSCREW PLUG COLLAR
COUNTER-CLOCKWISE
UNTIL IT IS FREE SPINNING

4

REMOVE THE LIGHT ASSEMBLY

DISCONNECT LIGHT ASSEMBLY
FROM PLUG BY PULLING APART



STORAGE



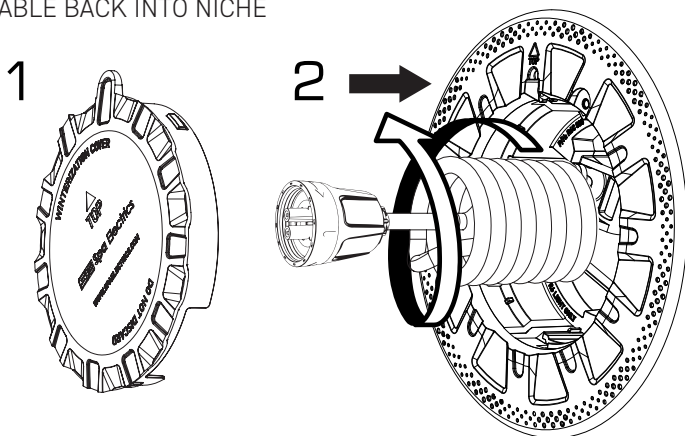
ENSURE LIGHT ASSEMBLY AND LIGHT RIM
IS SAFELY STORED FOR NEXT SEASON USE

5

CONNECT WINTERIZATION PLUG CAP

1: ALIGN TERMINAL PINS ON PLUG WITH TERMINAL PINS ON BACK OF WINTERIZATION COVER AND FIRMLY ASSEMBLE PLUG TO COVER

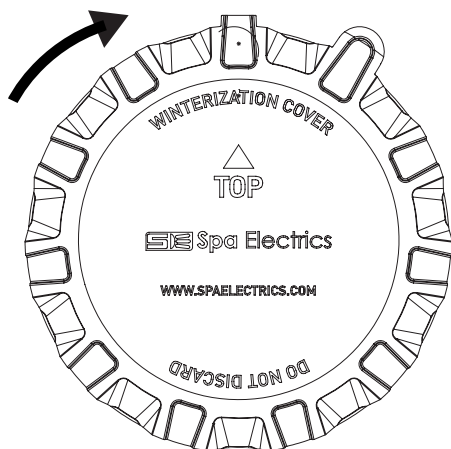
2: COIL CABLE BACK INTO NICHE



6

SCREW ON WINTERIZATION CAP

PLACE WINTERIZATION COVER ONTO CLAMP RING AT 10 O'CLOCK AND TURN CLOCKWISE TO 12 O'CLOCK TO LOCK INTO PLACE



TROUBLESHOOTING

ISSUE	REASON	ACTION
Light returns to WHITE color during manual color change	Light synchronization process has been triggered	Refer to MULTI PLUS User Guide Instructions
Light flashes 2 times (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 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 colors not synchronized	Incorrect operating mode selected.	Refer to MULTI PLUS setup procedure

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

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 with polymeric/non-current carrying metal parts are not required to be grounded / bonded.

Manufacturers Statement

Spa Electrics **Retro Universal** luminaires with their plastic housing designs do not require grounding / bonding.

Spa Electrics **Retro Universal** 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.

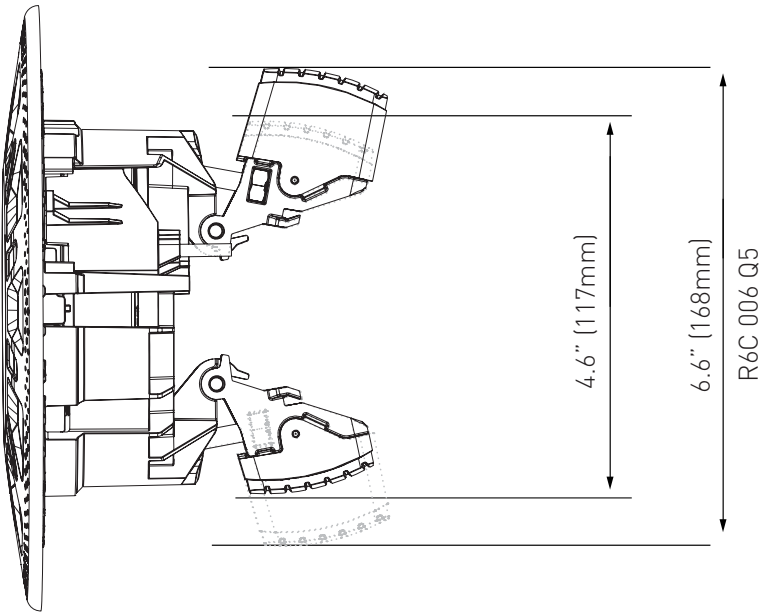
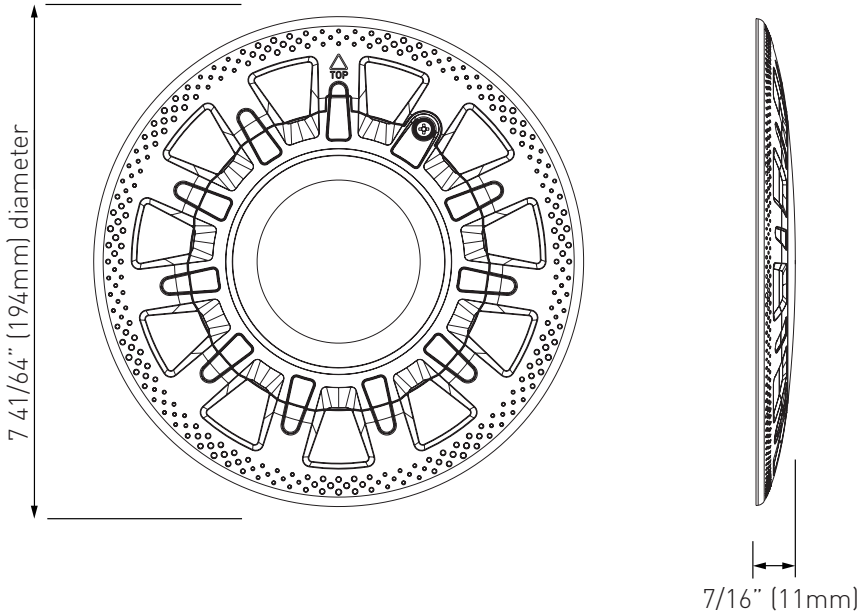
APPENDIX A

THE RETRO UNIVERSAL HAS BEEN UL TESTED WITH THE FOLLOWING NICHES

PENTAIR	PENTAIR	JANDY	JANDY
PLASTIC NICHE - SMALL	STAINLESS STEEL NICHE - SMALL	PRO NICHE PL - SMALL	PRO SERIES S/S - SMALL 1" REAR OULET, GUNITE & SIDE OUTLET GUNITE
P/N 79206600	P/N 78243100, 78243200, 78243300, 78244100, 78244200, 78244300	PLNICS M SMALL PLASTIC PLNICS M	#SSNICS M1R & #SSNICS M1S

JACUZZI	HAYWARD	HAYWARD	HAYWARD
9431-1234 GUNITE NICHE FOR FULL MOON POOL LIGHT	UCL SERIES UNDERWATER SMALL LIGHTING NICHE - 6.5 INCH	DURANICHE SP0601U - 4.8 TO 6.5 INCH	S/S UNDERWATER LUMINAIRE HOUSINGS (NICHES)
6 X 4 6 INCHES ASIN: B018QQLDVE	LGGUY1000	SP0601U	SP0606C

KEY DIMENSIONS





IMPORTANT NOTE

PLEASE STORE THIS MANUAL IN A SAFE PLACE
FOR FUTURE REFERENCE



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Spa Electrics



www.spaelectrics.ca

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CA 2024 05 15



retro

REPLACEMENT LED POOL LIGHT

POOL LIGHT (UNIVERSAL) INSTALLATION

 Spa Electrics

INSTALLATION & OWNER'S MANUAL

CONTENTS

PRE-INSTALLATION CHECK	2
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READ THIS FIRST	4
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TOOLS REQUIRED	5
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INCLUDED PARTS	6
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INSTALLATION	A: CONNECTION TO CABLE	7
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	B: ATTACH NICHE ADAPTOR	16
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	C: CONNECT LUMINAIRE	21
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	D: FIT LIGHT INTO NICHE	22
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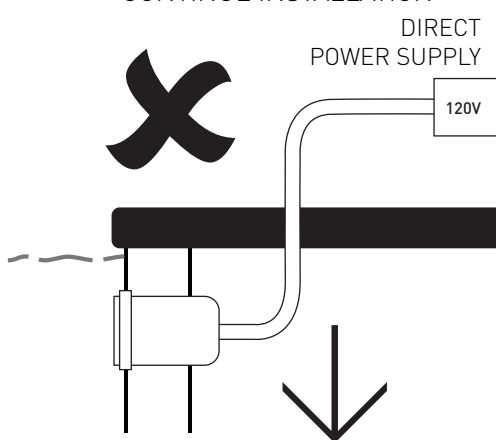
NOTICE

FRESH WATER USE ONLY
NOT INTENDED FOR OPERATION OUT OF WATER

PRE-INSTALLATION CHECK

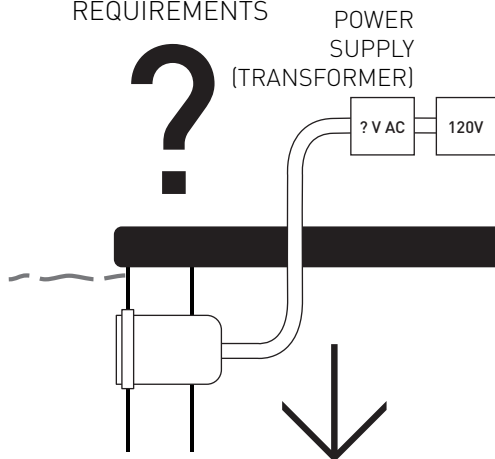
1 CHECK POWER SUPPLY

1A: IF THE POOL LIGHTS ARE DIRECTLY CONNECTED TO A 120V POWER SUPPLY, DO NOT CONTINUE INSTALLATION



1B: A 12V AC TRANSFORMER **MUST** BE INSTALLED BETWEEN THE 120V POWER SUPPLY AND POOL LIGHT

2A: IF THE POOL LIGHTS ARE CONNECTED TO A TRANSFORMER CHECK THAT IT MEETS STEP 2 REQUIREMENTS



2B: IF THE TRANSFORMER DOES NOT MEET THE REQUIREMENTS, IT WILL REQUIRE REPLACEMENT

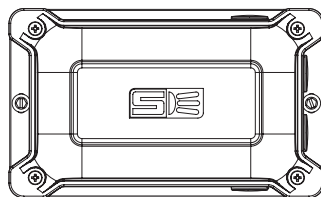
2 ADD TRANSFORMER (if needed)

EXISTING TRANSFORMER **MUST** BE:

- UL Listed Isolating Low Voltage power supply, evaluated for swimming pool use
- Installed as per current NEC wiring rules
- 12~14v AC output
- Minimum 50W per Retro Series Pool light
- In good working order

EXISTING TRANSFORMER **MUST NOT** BE:

- DC or 'LED Driver'
- Electronic or Switch mode
- Weather damaged or in otherwise pool condition



Spa Electrics recommends "LVX" safety transformers for use with **Retro Universal** lights

PRE-INSTALLATION CHECK

3

CHECK PLUG CABLE THICKNESS

RETRO UNIVERSAL CAN BE FITTED TO PLUG CABLES FROM 9/32" [7mm] UP TO 9/16" [14mm] DIAMETER

Max $\varnothing$
9/16 inch
[14mm]



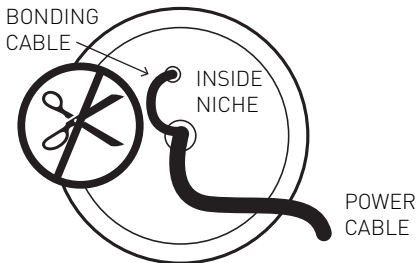
4

CHECK BONDING

ENSURE BONDING IS SECURE AT BACK OF NICHE

DO NOT CUT THE BONDING CABLE

DO NOT DISTURB THE BONDING CABLE WHEN WORKING WITH THE PLUG CABLE



ELECTRICAL GROUNDING

DUE TO ITS PLASTIC HOUSING DESIGN, THE RETRO UNIVERSAL LUMINAIRE DOES NOT REQUIRE GROUNDING / BONDING.

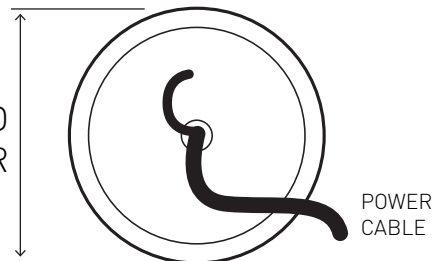
SEE PAGE 24 FOR MORE INFORMATION

5

CHECK NICHE DIAMETER

THE RETRO UNIVERSAL IS DESIGNED TO WORK WITH 10 inch OUTSIDE DIAMETER NICHES

10 inch OD
DIAMETER



REFER TO APPENDIX A FOR A LIST OF NICHES RETRO UNIVERSAL HAS BEEN UL TESTED WITH

READ THIS FIRST

Congratulations on your purchase of a Spa Electrics **Retro Universal** Series Pool Light. This light has been designed in conjunction with leading pool professionals across the USA and manufactured solely in Australia.

The Retro Series Pool light is designed to quickly and easily replace existing LOW VOLTAGE, 10" Pool Light (PAR 56) fittings from major brands.

Its patented cam-lock system allows for simple installation in situations where the existing niche hardware has been damaged or is no longer serviceable.

For safe and proper installation, please read this manual in full before commencing installation and use only the parts (screws, plugs, sealant etc) as provided.

For operating instructions, please refer to the MULTI PLUS Operating Manual. (Provided)

NOTE: The use of DC / Electronic (or Switch mode) power supplies is **not** permitted as they can cause disruptions in the lights normal operation & in some cases damage the lights internal electronic components. For more information, please contact Spa Electrics Inc.



WARNING

- The **Retro Universal** Light must be water cooled at all times. DO NOT switch the light on until installation is complete and the light is fully submerged in water.
- Ensure sufficient cable is coiled behind the light to allow for servicing (~12 to 24inch)
- Ensure only circular cable not exceeding 9/16" (14mm) diameter is connected to the **Retro Universal** Light. The use of Fig. 8 or non circular cable will not seal correctly & will void the product warranty.
- The **Retro Universal** LED Light does not contain any user serviceable parts, opening the light will void the 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

TOOLS REQUIRED

- Phillips head screwdriver
- small Flat Blade screwdriver



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

- Lights must be removed from pool wall and cable disconnected via plug connection & stored in a safe place.
- Winterization Cover must be fitted to Plug Top prior to reinstalling into niche for winter.
- Unless niche/conduit connection is adequately sealed (i.e. via included cable gland components), pool water level must be drained down 12" below the lowest light(s) position in pool wall.
- All conduits should be checked for accumulated water and drained if required.
- Follow instructions on page 20 OR consult your local pool professional for complete pool winterization process.

PRODUCT SUPPORT & INFORMATION

CANADA

Select Pool Products

Tel: 1-855-881-0889

Email: info@selectpoolproducts.ca

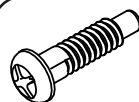
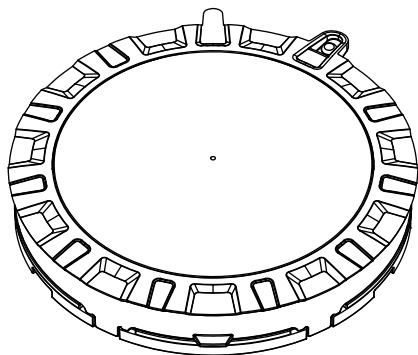
www.selectpoolproducts.com

INTERNATIONAL

Spa Electrics PTY LTD

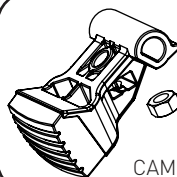
www.spaelectrics.com

INCLUDED PARTS



CAPTIVE SCREW

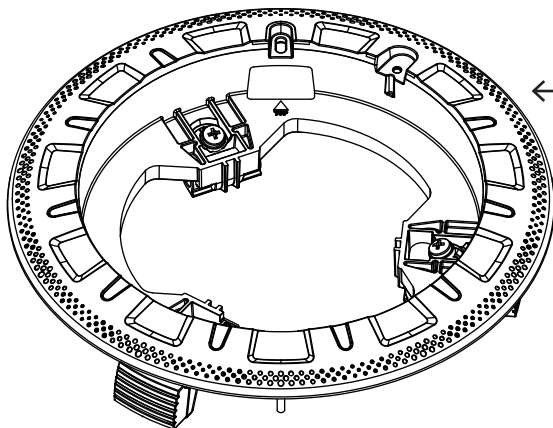
LIGHT ASSEMBLY



NUT

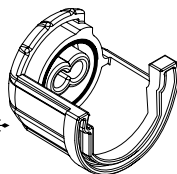
CAM LOCK

NICHE ADAPTOR



LANOLIN

Also included is a Winterization Plug Cap if required for seasonal upkeep.



CONNECTOR PLUG

The Plug comes in separate components for assembly

CONNECTOR PLUG COMPONENTS



Screw Terminal
End with filling
screws attached



Connector
Barrel



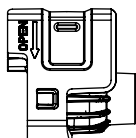
Glands
x 3 sizes
provided



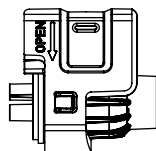
Gland
Nut



Large
Gland Nut
(also supplied)



Connector
Collar



1x INSTALLATION
MANUAL



1x WARRANTY
CARD



1x MULTIPLUS
MANUAL



REQUIRED PART (NOT INCLUDED)

UL LISTED ISOLATING LOW VOLTAGE POWER SUPPLY, EVALUATED FOR SWIMMING POOL USE.

Installed as per current NEC wiring rules. 12~14v AC output. Minimum 50W per Retro Series Pool Light. Spa Electrics recommends "LVX" safety transformers for use with Retro Universal lights

A: CONNECTION TO CABLE

**STOP! WARNING
ELECTROCUTION**



CHECK POWER IS
TURNED OFF FIRST

TURN
POWER
OFF



TURN OFF BREAKER
TO POOL LIGHT
TRANSFORMER

OFF

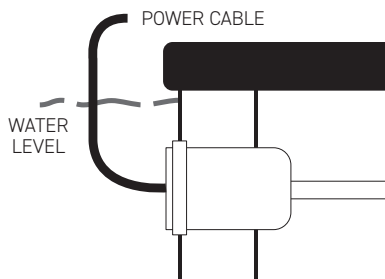
1

REMOVE EXISTING LIGHT

REMOVE EXISTING LIGHT FROM NICHE AND
BRING TO THE SURFACE FOR CONNECTION

**ENSURE YOU DON'T DISTURB THE
BONDING CABLE**

ALL CABLE CONNECTIONS ARE TO BE DONE
AT SURFACE LEVEL AND OUT OF WATER



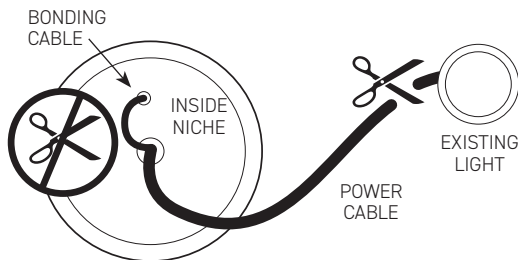
2

DISCONNECT EXISTING LIGHT

DISCONNECT LIGHT FROM
POWER CABLE

CUT POWER CABLE AS CLOSE
TO BACK OF EXISTING LIGHT AS
POSSIBLE

ENSURE BONDING CABLE IS NOT
CUT OR DISTURBED



3

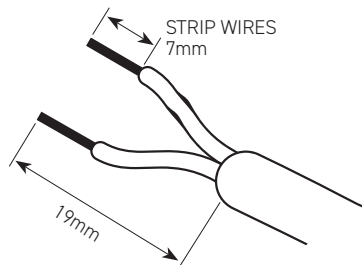
CABLE PREPARATION

STRIP POWER CABLE TO
SPECIFIED LENGTH

NOTE



IF CABLE LENGTH ALLOWS, CUT CABLE
BACK UNTIL FRESH COPPER APPEARS.



NOTE



THE EXISTING CABLE MAY INCLUDE A GROUND WIRE
(GREEN), CUT THIS WIRE OFF AS THIS IS NOT REQUIRED
FOR CONNECTION TO THE SPA ELECTRICS LIGHT AND
DOESN'T FOLLOW THE CABLE PREPARATION STEP.

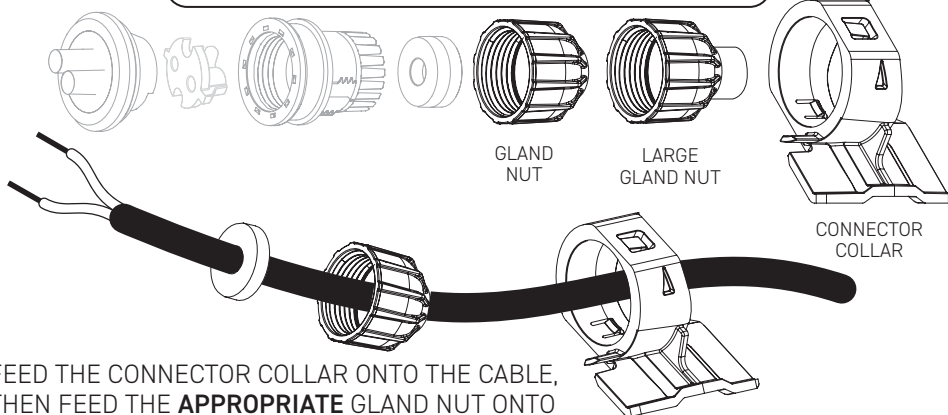
4

START ASSEMBLY OF CONNECTOR PLUG

LANOLIN USE



GENTLY WARM
LANOLIN
BEFORE USE

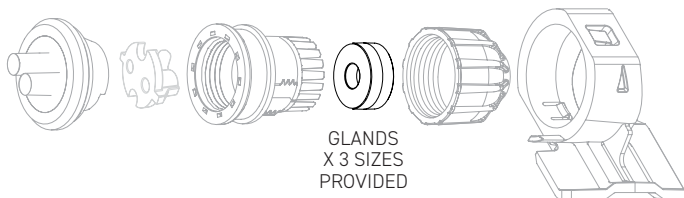


FEED THE CONNECTOR COLLAR ONTO THE CABLE,
THEN FEED THE **APPROPRIATE** GLAND NUT ONTO
THE CABLE

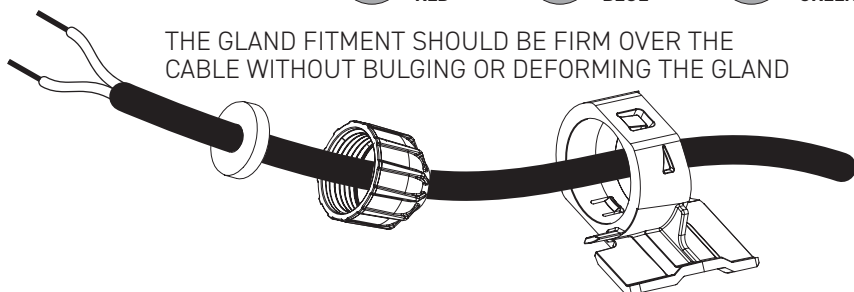
5

CHOOSE THE APPROPRIATE GLAND

SELECT THE
APPROPRIATE CABLE
GLAND FROM THE
THREE SUPPLIED THAT
SNUGLY FITS THE
EXISTING POWER CABLE
WITHOUT BULGING



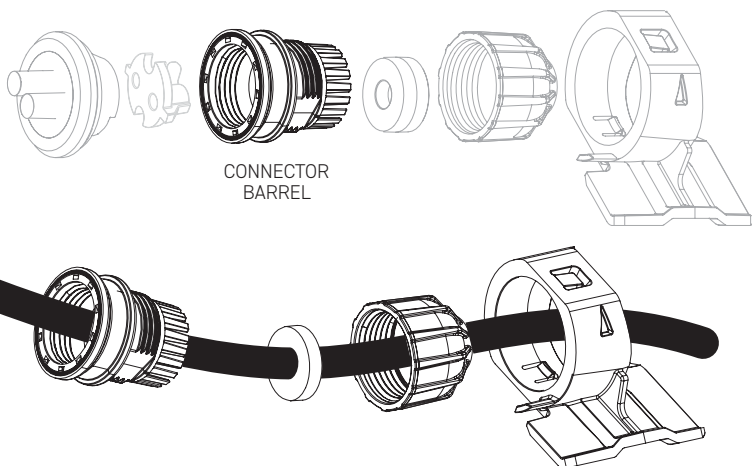
THE GLAND FITMENT SHOULD BE FIRM OVER THE
CABLE WITHOUT BULGING OR DEFORMING THE GLAND



6

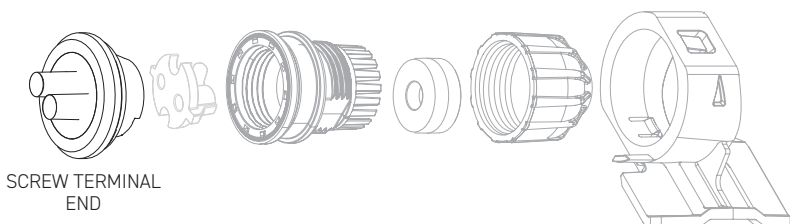
CONTINUE ASSEMBLY OF CONNECTOR PLUG

FEED THE
CONNECTOR
BARREL ONTO THE
CABLE



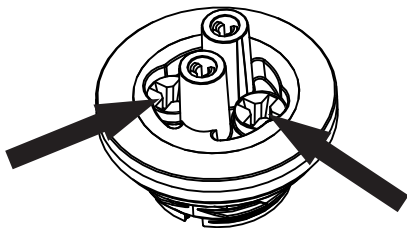
7

CHECK SCREWS ON SCREW TERMINAL END



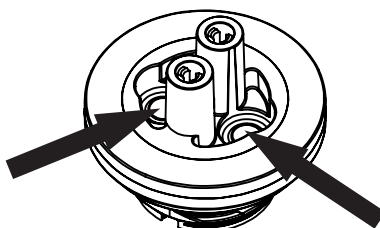
CHECK IF SCREWS ARE PRESENT IN THE TOP OF THE SCREW TERMINAL END

WITH SCREWS



USE A MANUAL PHILLIPS HEAD
SCREWDRIVER TO ENSURE THAT THE
2 SCREWS INDICATED ARE FULLY
SEATED. PROCEED TO STEP 8.

WITHOUT SCREWS

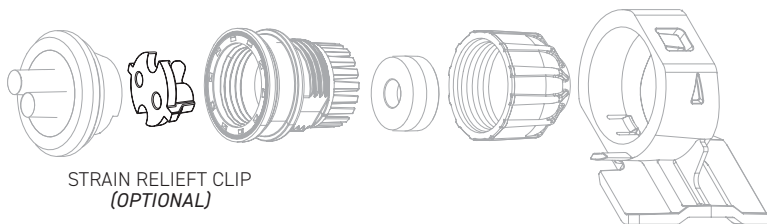


CHECK THERE ARE NO HOLES IN THE
INDICATED LOCATIONS.

PROCEED TO STEP 8.

8

STRAIN RELIEF CLIP



STRAIN RELIEF CLIP
(OPTIONAL)

OPTION 1: WHEN USING THE MEDIUM OR LARGE CABLE GLANDS, THE STRAIN RELIEF CLIP IS NOT REQUIRED.
FOLLOW STEP 9A (IGNORE STEP 9B).

OPTION 2: THE STRAIN RELIEF CLIP MUST BE USED WHEN THE SMALL CABLE GLAND IS USED.
FOLLOW STEP 9B (IGNORE STEP 9A).

STRAIN RELIEF CLIP REQUIRED



SMALL
GLAND



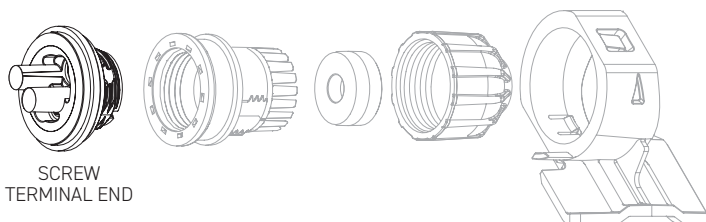
MEDIUM
GLAND



LARGE
GLAND

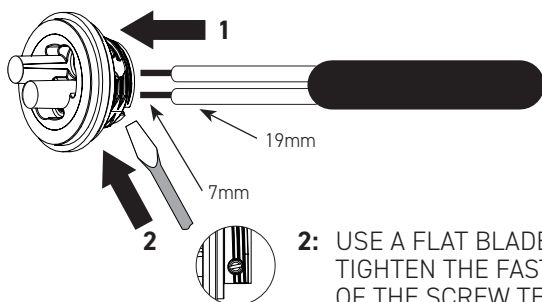
9A

CONNECT THE SCREW TERMINAL END



SCREW
TERMINAL END

- 1: FEED THE TWO STRIPPED CABLE ENDS THROUGH THE TWO HOLES IN THE BACK OF THE SCREW TERMINAL END



- 2: USE A FLAT BLADE SCREWDRIVER TO TIGHTEN THE FASTENERS ON EITHER SIDE OF THE SCREW TERMINAL

9B

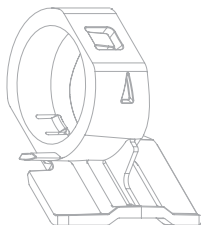
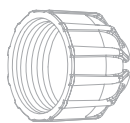
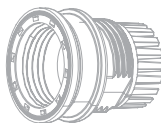
CONNECT THE SCREW TERMINAL END



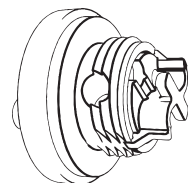
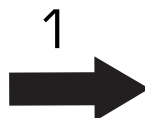
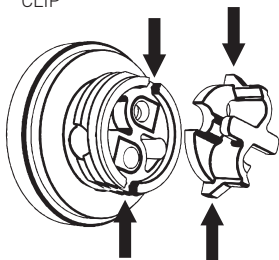
SCREW
TERMINAL END



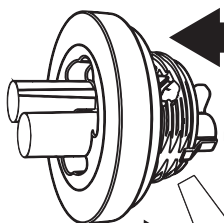
STRAIN RELIEF
CLIP



1: ATTACH THE STRAIN RELIEF CLIP TO THE SCREW TERMINAL END



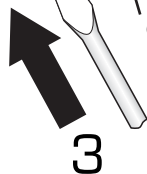
2: FEED THE TWO STRIPPED CABLE ENDS THROUGH THE TWO HOLES IN THE BACK OF THE SCREW TERMINAL END



2

3/4" (19mm)

9/32" (7mm)

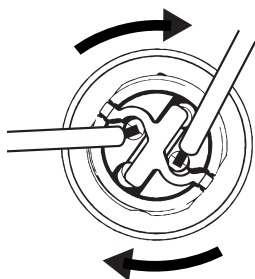


3

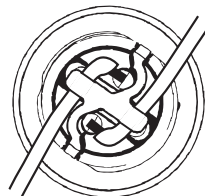


3: USE FLAT BLADE SCREWDRIVER TO TIGHTEN THE FASTENERS ON EITHER SIDE OF THE SCREW TERMINAL

4: TWIST THE SCREW TERMINAL AND LOOP CABLE ENDS UNDER THE STRAIN RELIEF CLIP

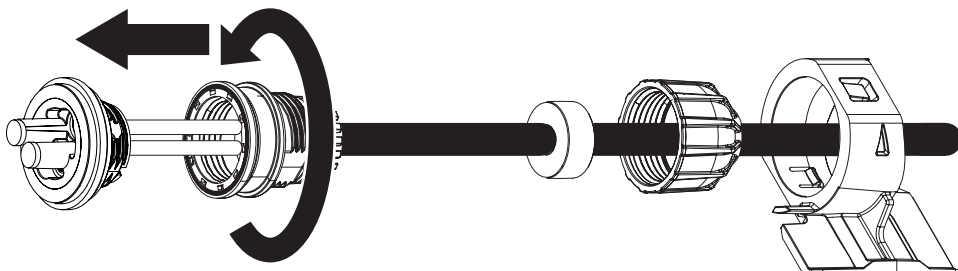


4



10 START ASSEMBLY OF CONNECTOR PLUG

CAREFULLY THREAD CONNECTOR BARREL ONTO SCREW TERMINAL AND TIGHTEN FIRMLY BY HAND



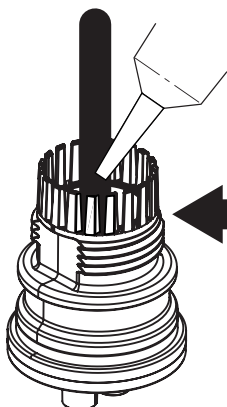
LEAVE THESE PARTS DISASSEMBLED UNTIL AFTER ADDING LANOLIN

11 ADD LANOLIN

LANOLIN USE



GENTLY WARM
LANOLIN
BEFORE USE



FILL BACK OF CONNECTOR BARREL WITH LANOLIN UP TO THE INDICATED POINT

FILL TO HERE
(ALLOWING ROOM FOR GLAND)

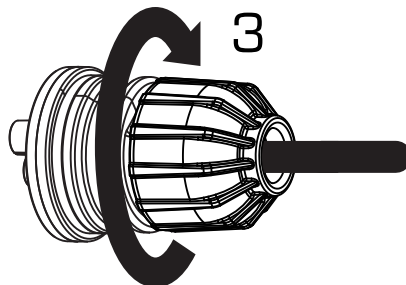
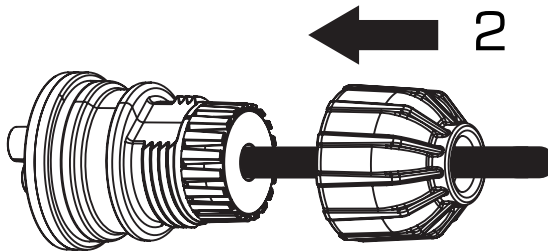
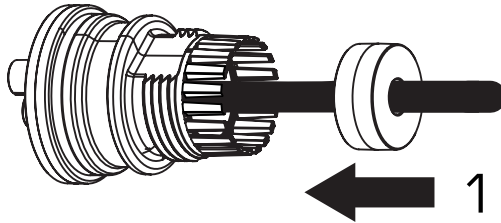
12

CONTINUE ASSEMBLY OF CONNECTOR PLUG

1: SEAT CABLE GLAND ALL THE WAY INTO CONNECTOR (DO A VISUAL CHECK TO MAKE SURE THERE IS A SEAL BETWEEN THE GLAND AND CABLE)

2: CAREFULLY THREAD GLAND NUT ONTO CONNECTOR BARREL

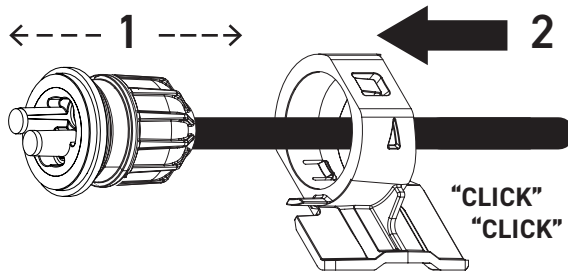
3: TIGHTEN GLAND NUT FIRMLY BY HAND



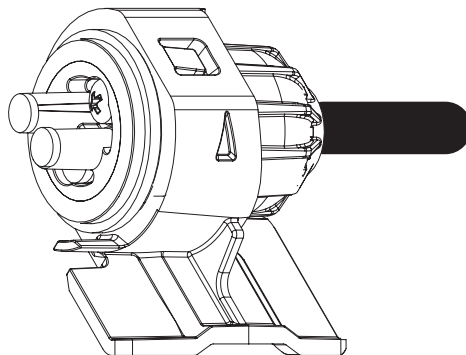
13

CONTINUE ASSEMBLY OF CONNECTOR PLUG

- 1: DO A PULL TEST ON THE PLUG ASSEMBLY SO FAR, ALL ASSEMBLED PARTS SHOULD FEEL FIRM AND TIGHT
- 2: PUSH CONNECTOR COLLAR ALL THE WAY IN TO THE END UNTIL THERE ARE TWO DISTINCT "CLICKS". THE END WILL BE FREE TO ROTATE



ASSEMBLED VIEW OF CONNECTOR PLUG



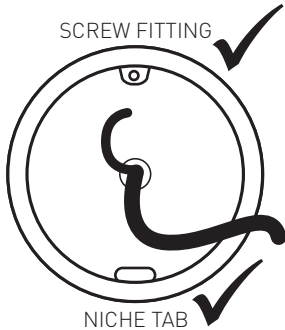
B: ATTACH NICHE ADAPTOR

1 CHECK QUALITY OF NICHE

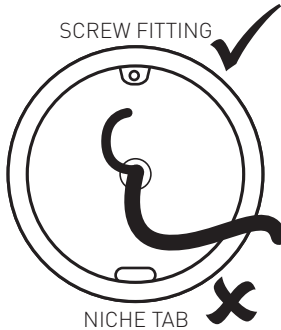
ENSURE NICHE TAB AND SCREW FITTING IS INTACT, NOT DAMAGED OR CORRODED AND FIT FOR PURPOSE

IF THE NICHE TAB AND SCREW FITTING IS INTACT: THEN FOLLOW **3A STEPS**

IF ANY PARTS ARE BROKEN OR NOT SERVICEABLE, FOLLOW **3B STEPS**



USE 3A STEPS



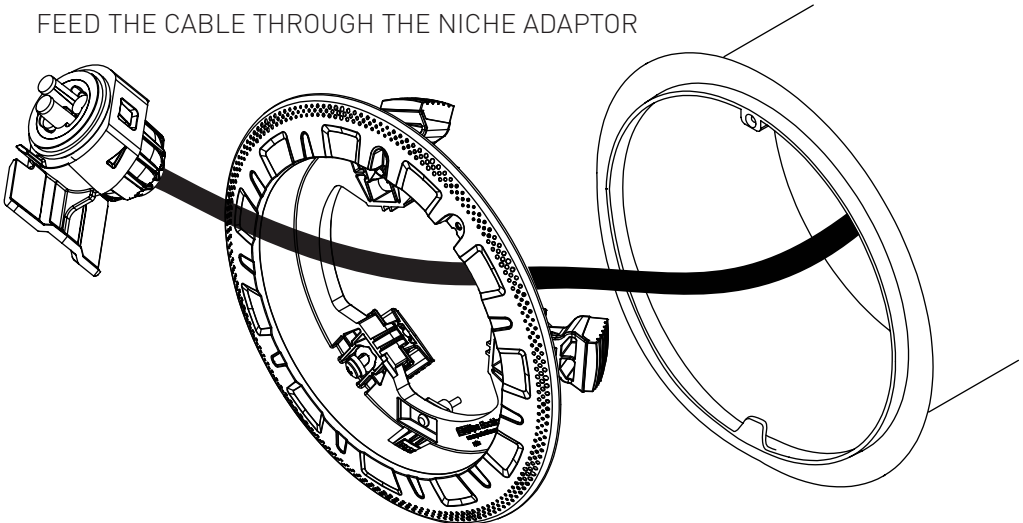
USE 3B STEPS



USE 3B STEPS

2 INSERT NICHE ADAPTOR

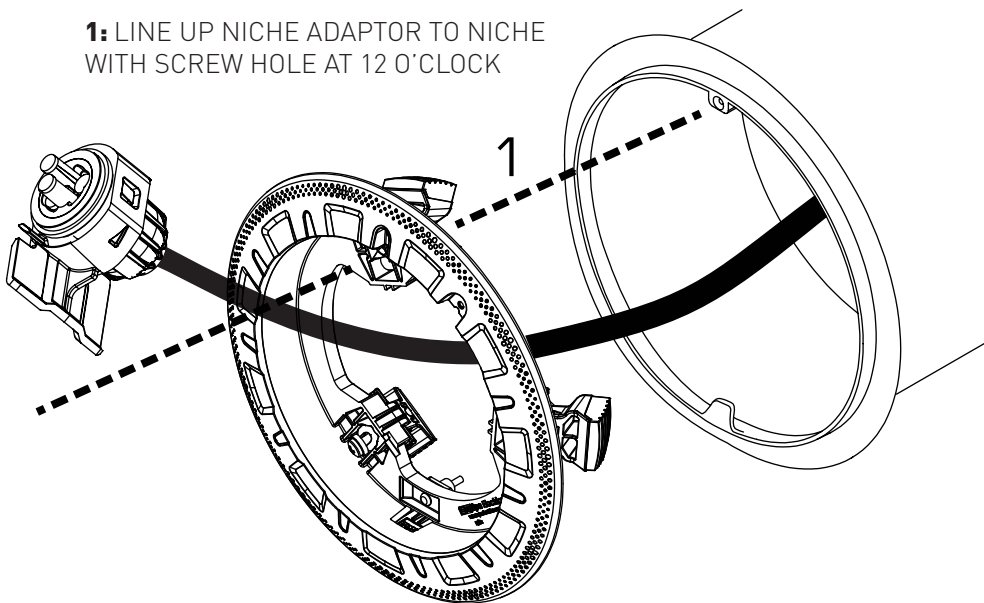
FEED THE CABLE THROUGH THE NICHE ADAPTOR



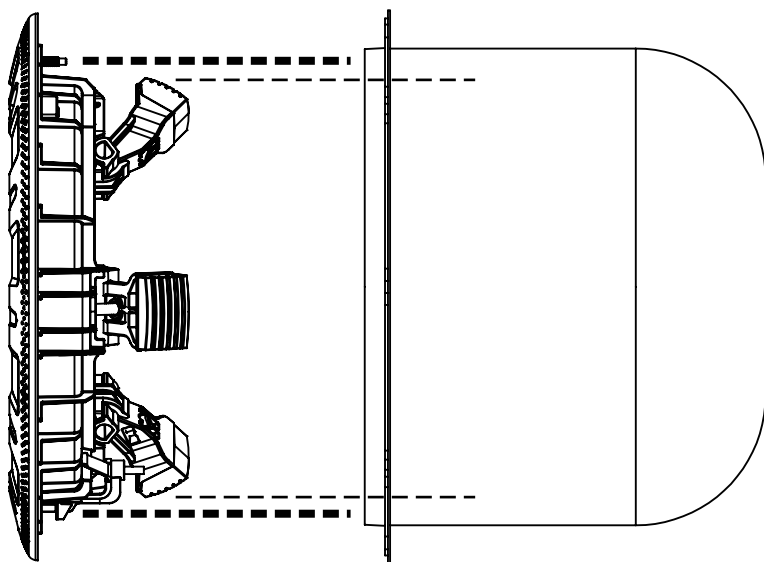
3A

IF NICHE TAB & SCREW FITTING IS INTACT:

1: LINE UP NICHE ADAPTOR TO NICHE WITH SCREW HOLE AT 12 O'CLOCK

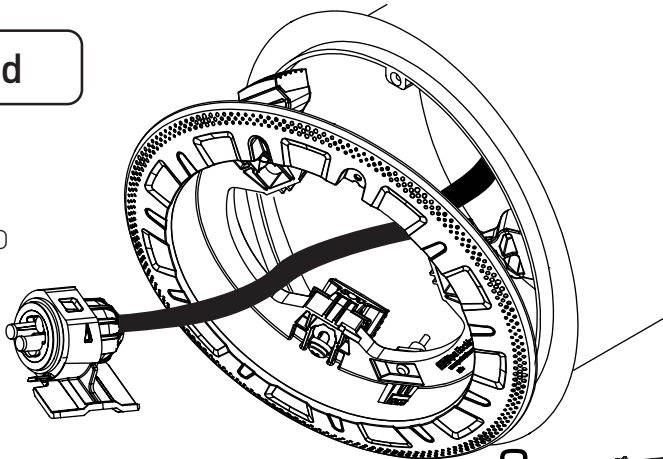


2: ENSURE CAM LOCKS FIT INSIDE NICHE NEATLY

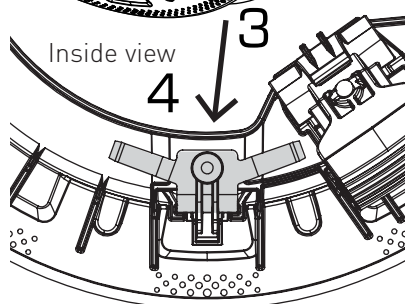


3A ... continued

3: PLACE BASE OF NICHE ADAPTOR ONTO NICHE TAB



4: ENSURE THE 'HOOK' TAB AT THE BASE OF THE NICHE ADAPTOR SITS NEATLY & FIRMLY OVER THE NICHE TAB



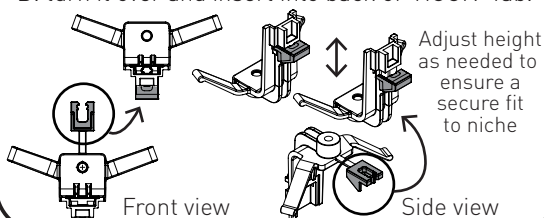
If the 'Hook' Tab does not sit neatly & firmly over the niche tab, then install the additional 'ANCHOR', which is a removable part on the 'HOOK' Tab.

The 'ANCHOR' provides a firmer attachment.

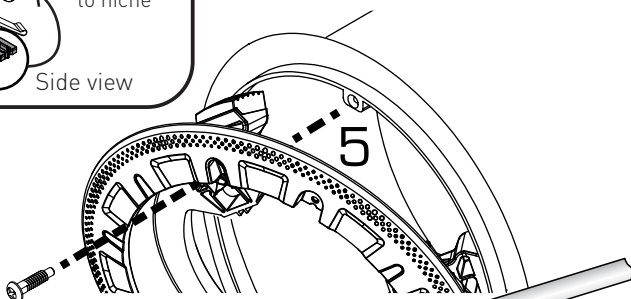
To install the 'ANCHOR':

A: cut the 'ANCHOR' off the 'HOOK' Tab

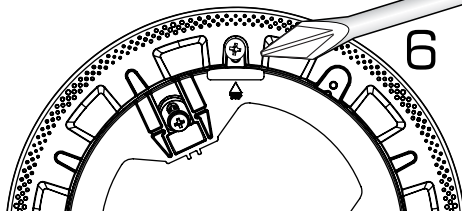
B: turn it over and insert into back of 'HOOK' Tab.



5: ALIGN THE SCREW FITTINGS AT TOP



6: USE A SCREWDRIVER TO FIX NICHE ADAPTOR TO NICHE (CAPTIVE SCREW INCLUDED)



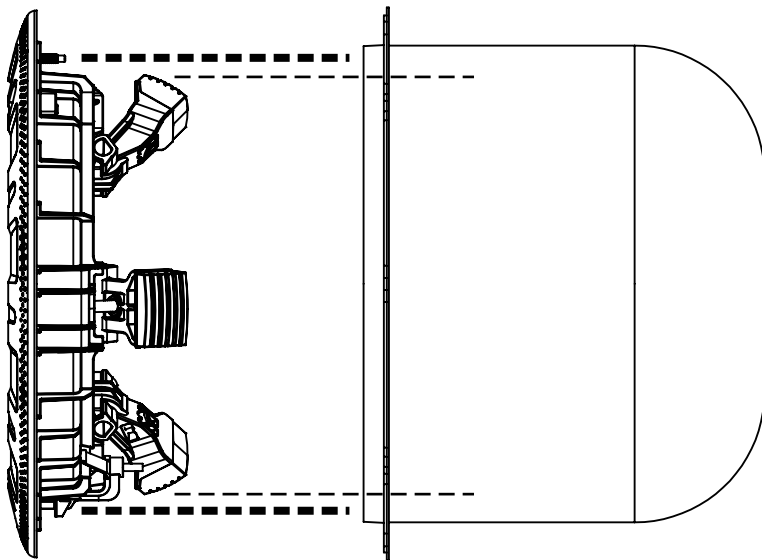
7: TIGHTEN LOWER 'HOOK' TAB SCREW TO ENSURE A TIGHT FIT

8: GO TO **SECTION C: CONNECT LUMINAIRE**

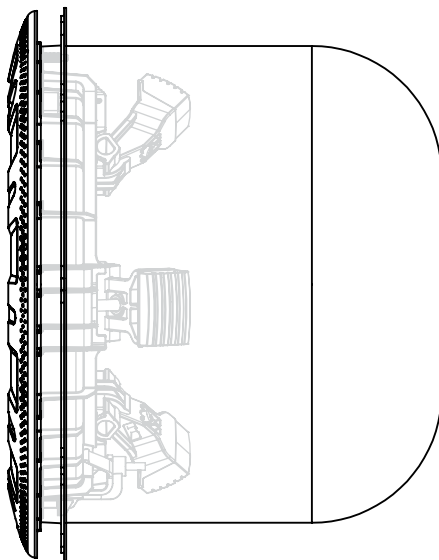
3B IF NICHE TAB & SCREW FITTING IS NOT INTACT:

CENTRE NICHE ADAPTOR INTO NICHE, SO THE SCREW HOLE IS AT 12 O'CLOCK, OR LINES UP WITH THE SCREW FITTING ON NICHE

ENSURE THE CAM LOCKS GO INTO THE NICHE EASILY



PUSH THE NICHE ADAPTOR INTO THE WALL SO IT SITS FLUSH AND IS FULLY INSERTED INTO THE NICHE



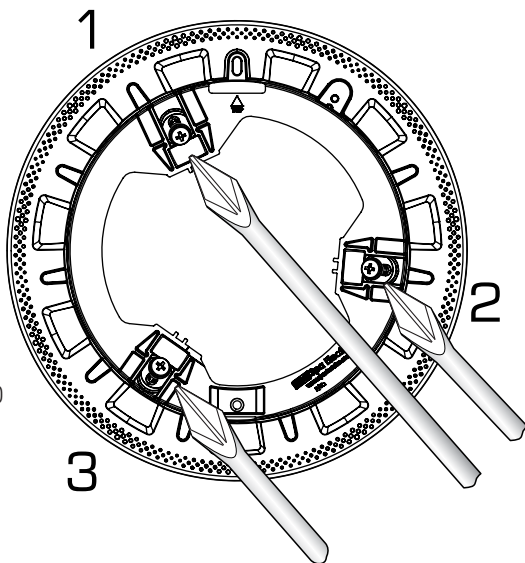
3B ... continued

TIGHTEN THE THREE CAM LOCK SCREWS EQUALLY AND IN ROTATION, AS SHOWN, BY HAND UNTIL YOU FEEL THE NICHE ADAPTOR IS SECURE IN PLACE

DO NOT OVERTIGHTEN.

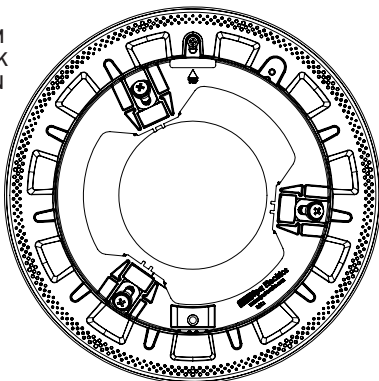
CHECK FOR SECURE FITTING, THE NICHE ADAPTOR SHOULD BE FIRM AND NOT ABLE TO MOVE EASILY BY HAND

GO TO **SECTION C: CONNECT LUMINAIRE**

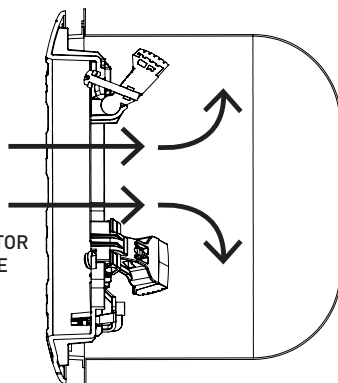


AS THE CAM LOCK SCREWS TIGHTEN, THE CAM LOCKS WILL MOVE IN AND UP, PULLING THE NICHE ADAPTOR FIRMLY INTO THE NICHE

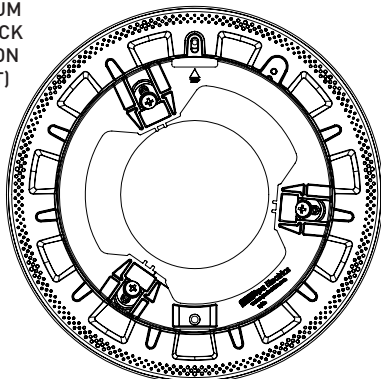
MINIMUM
CAM LOCK
POSITION
(LOOSE)



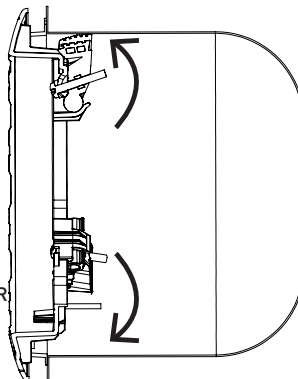
TIGHTEN
SCREWS
TO PULL
NICHE ADAPTOR
INTO NICHE



MAXIMUM
CAM LOCK
POSITION
(TIGHT)



WHEN ALL
CAM LOCKS ARE
SCREWED TIGHT,
THE CAM LOCKS
SIT TIGHT
AGAINST THE
INSIDE OF THE
NICHE, AND THE
NICHE ADAPTOR
IS PULLED FURTHER
INTO THE WALL



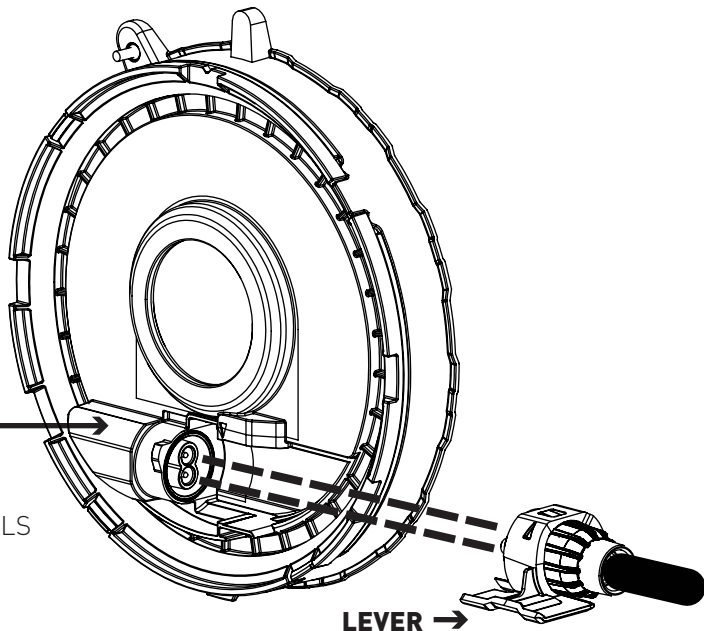
C: CONNECT LUMINAIRE

1 ALIGN UP AND CONNECT CONNECTOR PLUG

1: TURN THE LUMINAIRE OVER TO SEE THE BACK

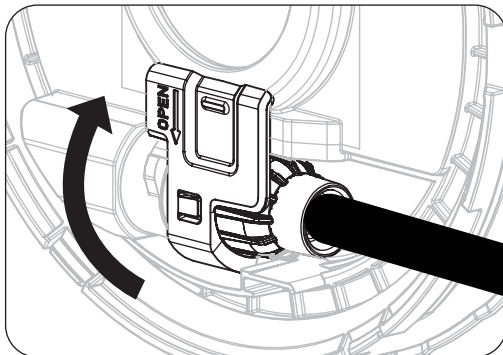
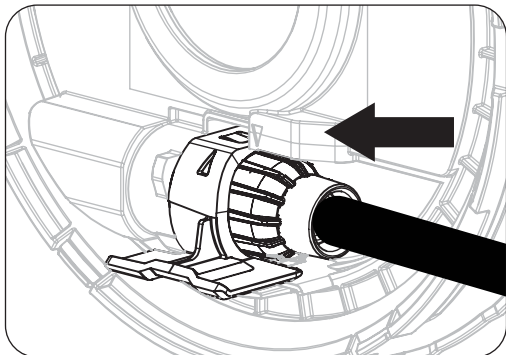
2: LOCATE THE
CONNECTOR SOCKET

3: LINE UP THE TERMINALS
OF THE SOCKET WITH
THE CONNECTOR PLUG



4: SLIDE THE CONNECTOR PLUG
FIRMLY INTO THE SOCKET
WITH THE LEVER HORIZONTAL

5: FOLD THE LEVER UPRIGHT
UNTIL IT LOCKS INTO PLACE
VERTICALLY

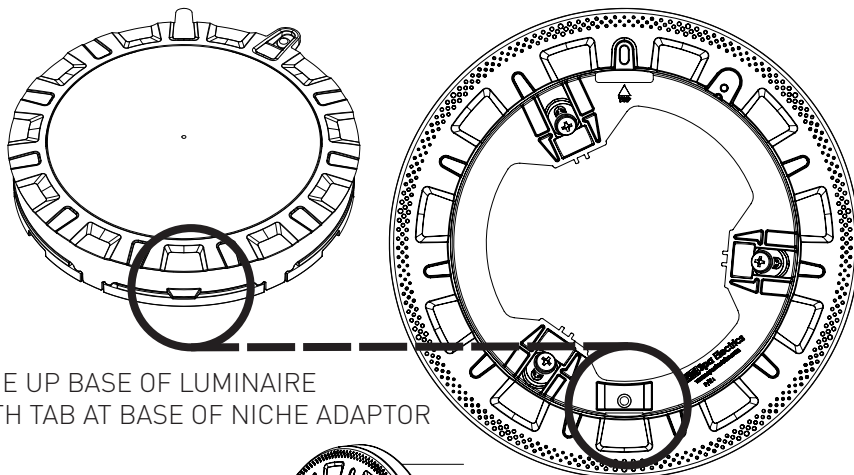


D: FIT LIGHT TO NICHE

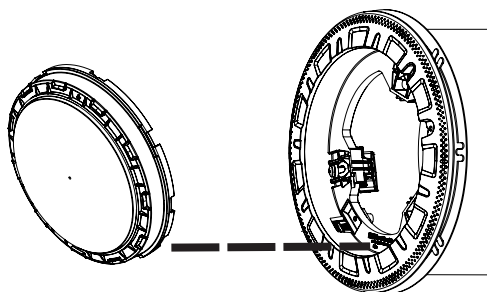
1 COIL EXCESS CABLE INTO NICHE



2 CONNECT LIGHT ASSEMBLY



LINE UP BASE OF LUMINAIRE
WITH TAB AT BASE OF NICHE ADAPTOR

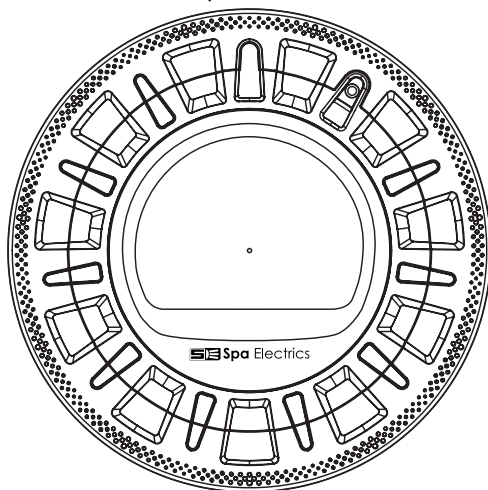


2

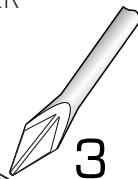
CONNECT LIGHT ASSEMBLY continued

PUSH LUMINAIRE INTO PLACE
ENSURING TAB LOCATES AT TOP
AT 12 O'CLOCK

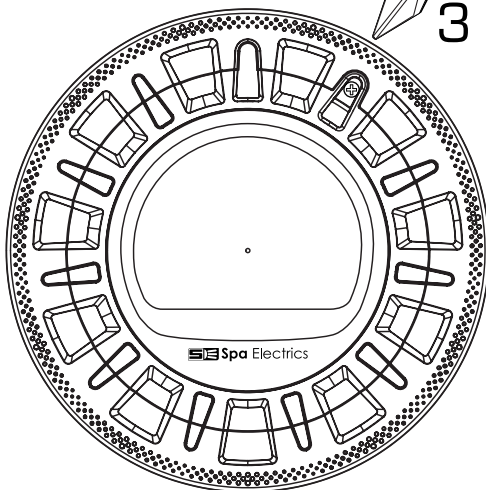
↓ 2



USE A SCREWDRIVER
TO TIGHTEN THE
CAPTIVE SCREW



3



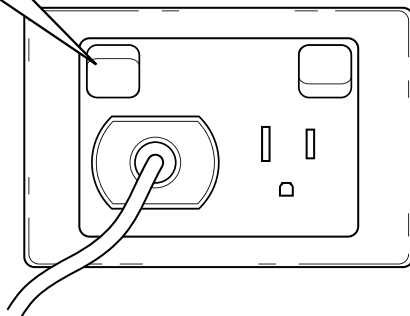
POST INSTALLATION CHECK

1

TEST SYSTEM

TURN ON POWER
AND CHECK ALL
WORKING CORRECTLY

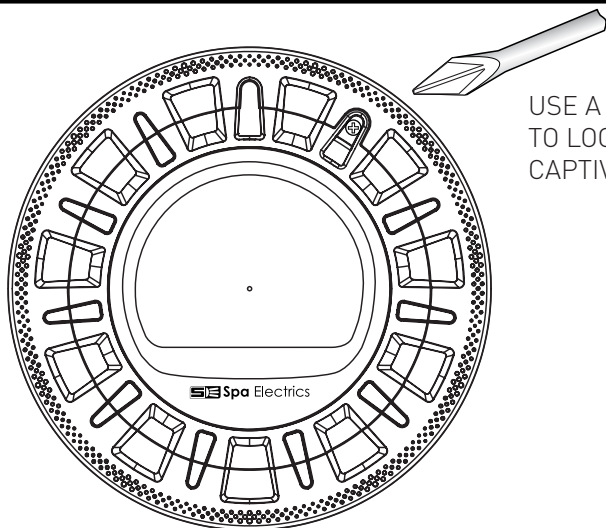
TURN
POWER
ON



WINTERIZATION

LIGHT REMOVAL

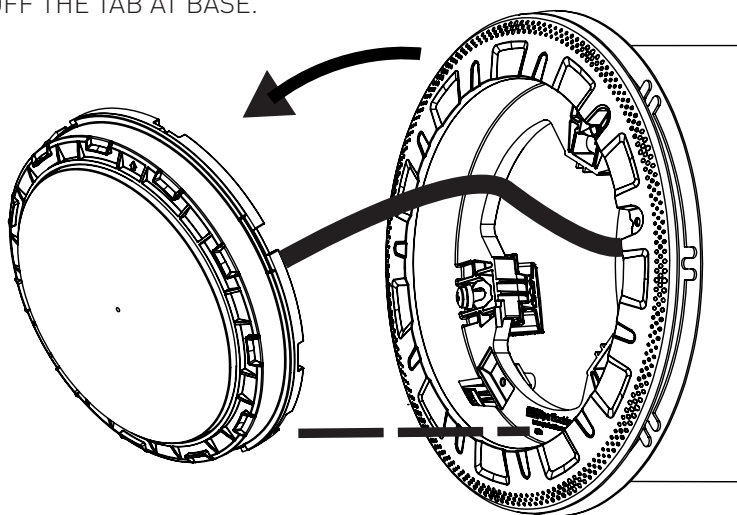
1 DETACH THE LIGHT ASSEMBLY



USE A SCREWDRIVER
TO LOOSEN THE
CAPTIVE SCREW

2 PULL OUT LIGHT ASSEMBLY

PULL THE LIGHT ASSEMBLY FORWARD AND UP
SO IT LIFTS OFF THE TAB AT BASE.



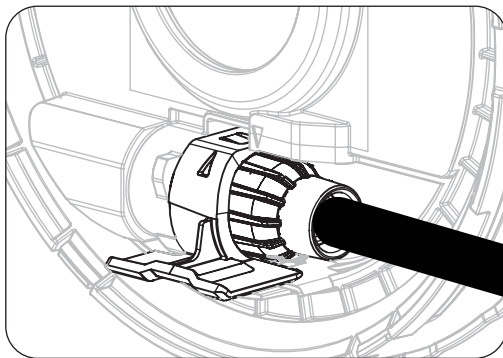
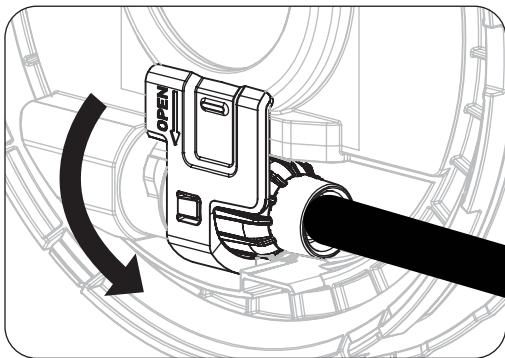
WINTERIZATION

LIGHT REMOVAL

3 UNLOCK THE PLUG

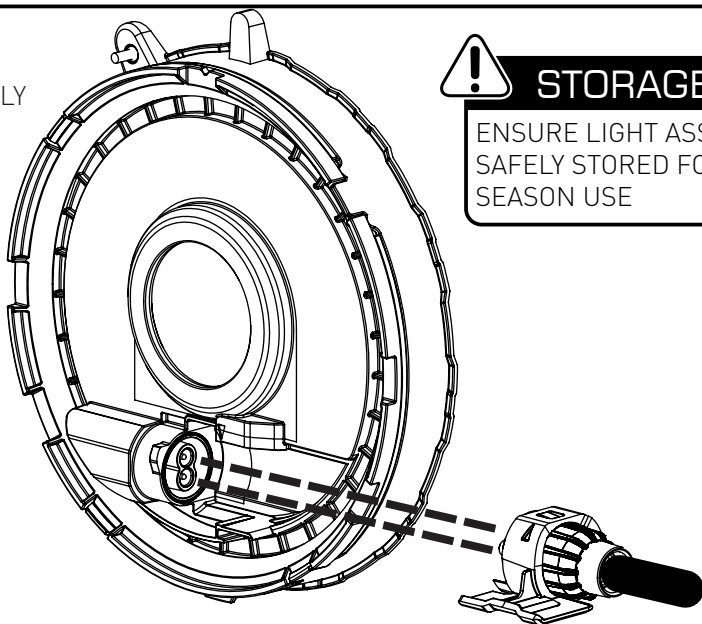
FOLD THE LEVER DOWN
SO THE LEVER IS HORIZONTAL

THE LIGHT ASSEMBLY IS NOW
READY TO BE REMOVED



4 REMOVE THE LIGHT ASSEMBLY

PULL OFF THE
LIGHT ASSEMBLY



STORAGE

ENSURE LIGHT ASSEMBLY IS
SAFELY STORED FOR NEXT
SEASON USE

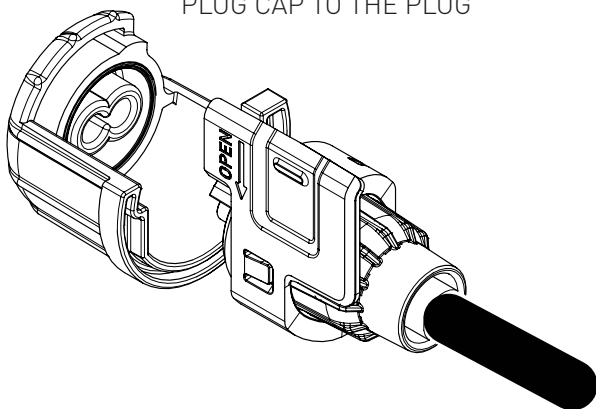
WINTERIZATION

WINTERIZATION PLUG CAP ATTACHMENT

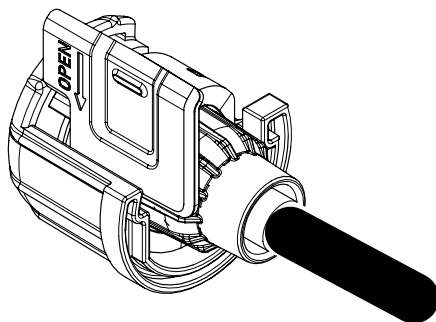
5

CONNECT WINTERIZATION PLUG CAP

LINE UP THE WINTERIZATION
PLUG CAP TO THE PLUG



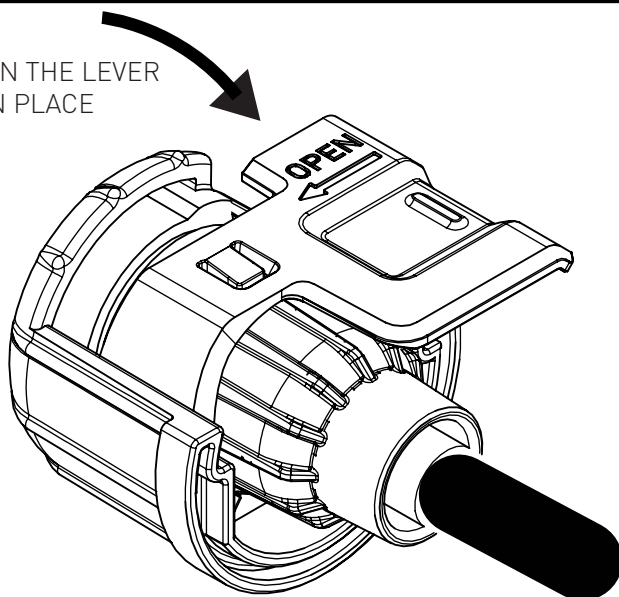
SLIDE INTO PLACE
UNTIL SECURE



6

LOCK ON WINTERIZATION PLUG CAP

FOLD DOWN THE LEVER
TO LOCK IN PLACE



TROUBLESHOOTING

ISSUE	REASON	ACTION
Light returns to WHITE colour during manual colour change.	Light synchronization process has been triggered.	Refer to MultiPlus User Guide instructions.
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 in to GPO and switched on
Light not operating (3)	Damaged cable	Disconnect plug top and test voltage under load using multi-meter (ie. 50w 12v) Required voltage (11v ~ 13.5v)
Light not operating (4)	Transformer not working	Check fuses & test transformer using multimeter under load (ie.50w 12v)
Light colours not synchronized with controller	Incorrect operating mode selected.	Refer to MULTI PLUS setup procedure

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

Web : www.selectpoolproducts.com
www.spaelectrics.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 with polymeric/non-current carrying metal parts are not required to be grounded / bonded.

Manufacturers Statement

Spa Electrics **Retro Universal** luminaires with their plastic housing designs do not require grounding / bonding.

Spa Electrics **Retro Universal** 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.

APPENDIX A

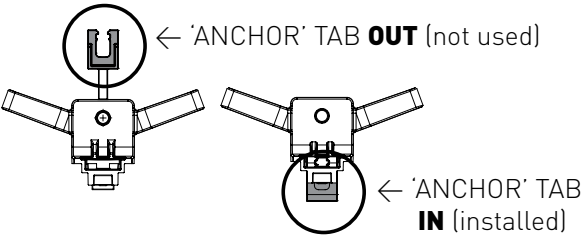
THE RETRO UNIVERSAL HAS BEEN UL TESTED WITH THE FOLLOWING NICHES

	Hayward SP0609C	Jandy Zodiac PLNICLRG	Jandy Zodiac SSNICLRG1R	Pentair 79206700	Pentair 78210300
'ANCHOR' on 'HOOK' Tab	IN	IN	IN	IN	OUT
Niche Adaptor Tab and Slot	Fitted and Aligned	Fitted and Aligned	Fitted and Aligned	Fitted and Aligned	Fitted and Aligned

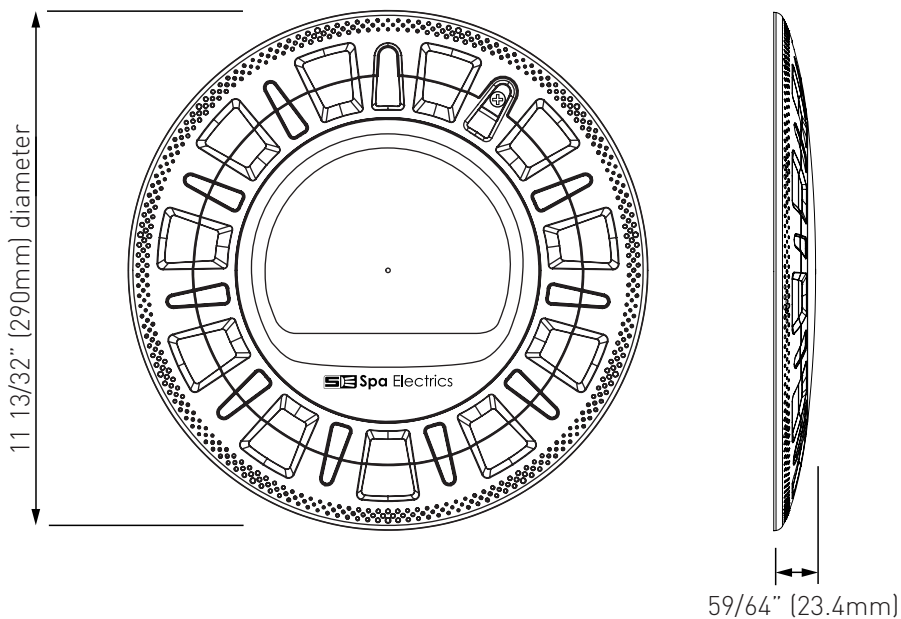
ALL THESE FITTED AND ALIGNED IN ACCORDANCE WITH SECTION:

B: ATTACH NICHE ADAPTOR > STEP 3A (see pages 13-14)

THREE REQUIRED THE INSTALL OF
THE 'ANCHOR' ON THE 'HOOK' TAB
TO FIT NEATLY AND FIRMLY
(see page 14)



KEY DIMENSIONS





NOTE

PLEASE STORE THIS
MANUAL IN A SAFE PLACE
FOR FUTURE REFERENCE



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Spa Electrics



www.spaelectrics.com

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CA 20240513