

SE Spa Electrics®

retro®

REPLACEMENT LED POOL LIGHT



**STANDARD-NICHE
RETRO FIT MANUAL**

AGRX R1

INSTALLATION & OWNER'S MANUAL

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PRODUCT SUPPORT AND INFORMATION

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SALES ENQUIRIES

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QUICK REFERENCE TABLE

LIGHT MODEL	POOL TYPE	SCREW LOCATIONS	ADDITIONAL PARTS (SOLD SEPARATELY)
ASTRAL SLX / ARC / DELTA	CONCRETE	D-D-D (TRIM SCREW LOCATION A)	
ASTRAL SLX / ARC / DELTA	FIBREGLASS	D-D-D (TRIM SCREW LOCATION A)	AGRX 004R1
AQUAQUIP EVO2, EVOMAX, AQUASTAR & AURORA	CONCRETE	C-C	
AQUAQUIP EVO2, EVOMAX, AQUASTAR & AURORA	FIBREGLASS	C-C	AGRX 004R1
AUTUMN SOLAR NICHE LIGHT	CONCRETE / FIBREGLASS	N/A	AGRX 002
SPA ELECTRICS WN SERIES	CONCRETE	B-B	
SPA ELECTRICS WN SERIES	FIBREGLASS	B-B	AGRX 004R1
SUNLINE	CONCRETE / FIBREGLASS	N/A	AGRX 001R1
WATERCO BRITESTREAM / BRITESTREAM 165	CONCRETE	A-A	
WATERCO BRITESTREAM 165	FIBREGLASS	A-A	AGRX 004R1

READ THIS FIRST

This booklet contains important information about the correct installation and handling of the AGRX Series lights. **Please read this booklet carefully** before commencing installation to familiarise yourself with the included parts, accessories and correct installation procedures.

BEFORE YOU START

- If required, ensure that the transformer is installed by a suitable qualified persons (e.g., registered pool builder and/or qualified electrician), in accordance with AS/NZS 3000:2018 standards.
- For safe and proper installation, ensure that only those parts supplied with the system are used.
- Check that there is enough cable behind the existing light to allow for servicing above water, preferably at ground-level pool-side.
- Ensure the pool light end of cable is circular and free of damage or imperfections i.e., cuts, cracks or deformation. If possible, trim back until fresh end of cable is available.
- Confirm existing transformer is a iron core type, 12V AC ONLY and in good working order (If in doubt contact Spa Electrics).

CLEANING

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

USE

- Operating the light for at least 15 minutes every week is advised (all year round)
- AGRX Series lights are suited for both domestic and commercial installations.

WARNING



- The **AGRX Series** light must only be powered by a 12V AC iron core type transformer.
- DO NOT use electronic or switch-mode transformers with **AGRX Series** lights. These transformers 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 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 level 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

✓ Flat-blade screw driver

✓ Cable stripper/Side cutters

✓ Phillips Head (No 2) screw-driver

✓ Pliers

IMPORTANT NOTES

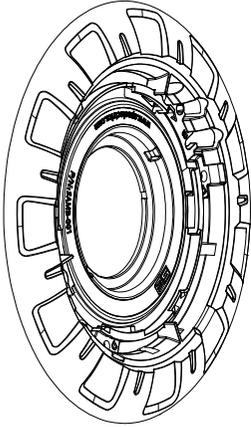


The use of power tools (such as 240V and cordless drills) during installation is not recommended as these devices can cause faults and damage to light components.

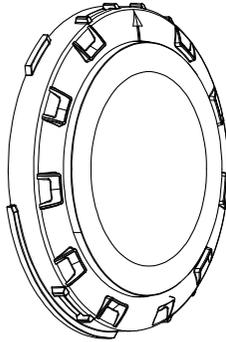
If you are unsure, please contact Spa Electrics

INCLUDED PARTS

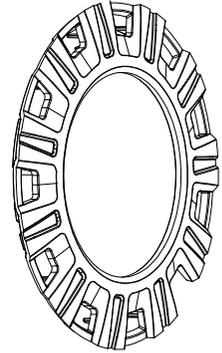
MODEL: AGRX R1



R1 ADAPTOR PLATE
(P/N: SAMB 001)



AGRX LIGHT



R1 RIM
(P/N: SAMB 002)

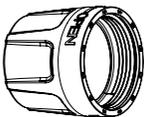


LANOLIN



**1 X WARRANTY
CARD**

PLUG ASSEMBLY (P/N: AGRX 003)



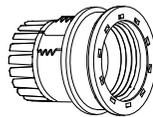
Connector
Collar



Gland
Nut



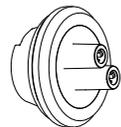
Glands X 3
Sizes Provided



Connector
Barrel



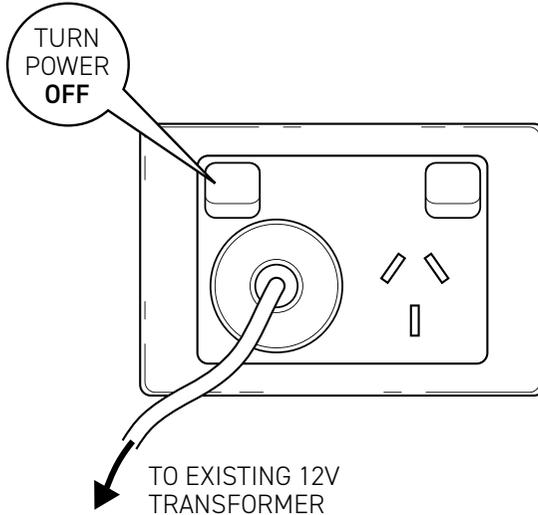
Strain Relief
Clip
(Optional)



Screw Terminal
End with filling
screws attached

TRANSFORMER VERIFICATION

1 TURN POWER OFF



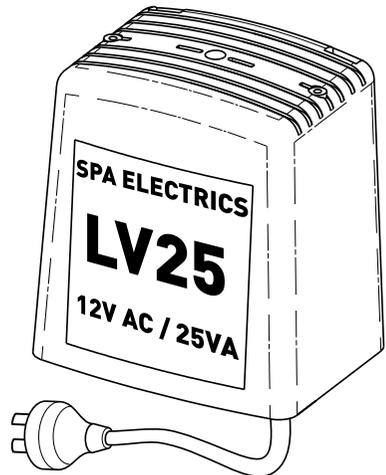
2 CHECK TRANSFORMER

EXISTING TRANSFORMER MUST BE:

- 12V AC ONLY
- MIN 15 WATT (PER 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



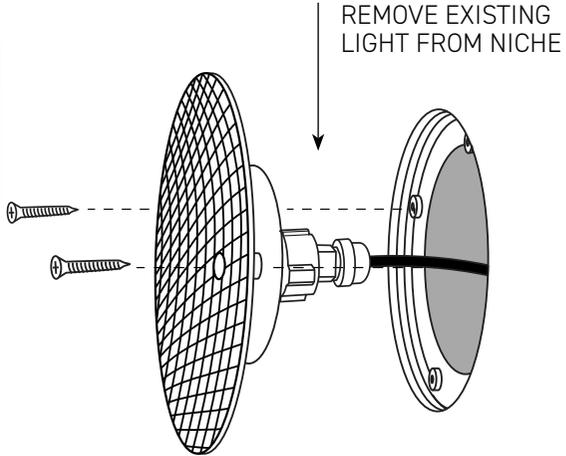
LIGHT REMOVAL

1 REMOVE EXISTING LIGHT

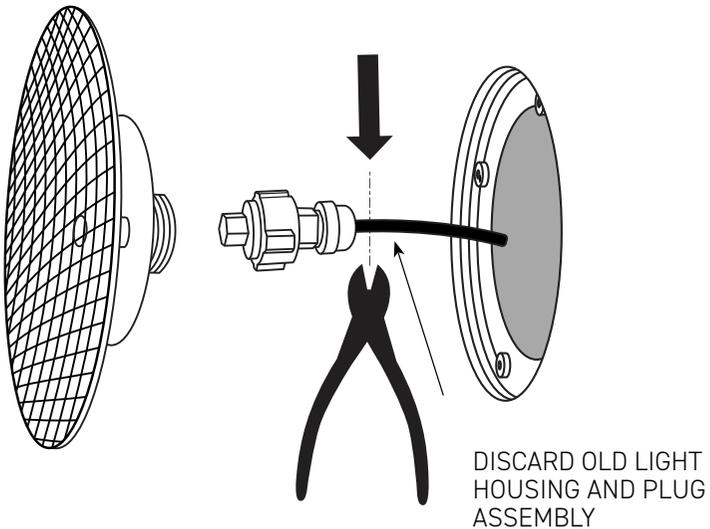
IMPORTANT



RETAIN EXISTING
MOUNTING SCREWS.
SEE PAGE 12



2 DISCONNECT EXISTING LIGHT



CABLE PREPARATION

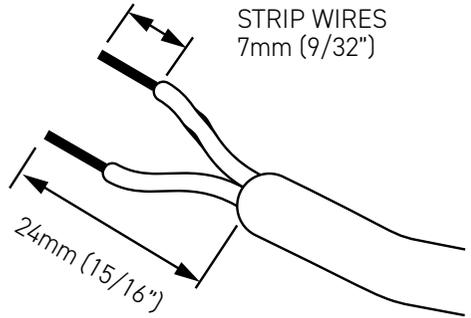
1 CABLE PREPARATION

STRIP POWER CABLE
TO SPECIFIED LENGTH

NOTE



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

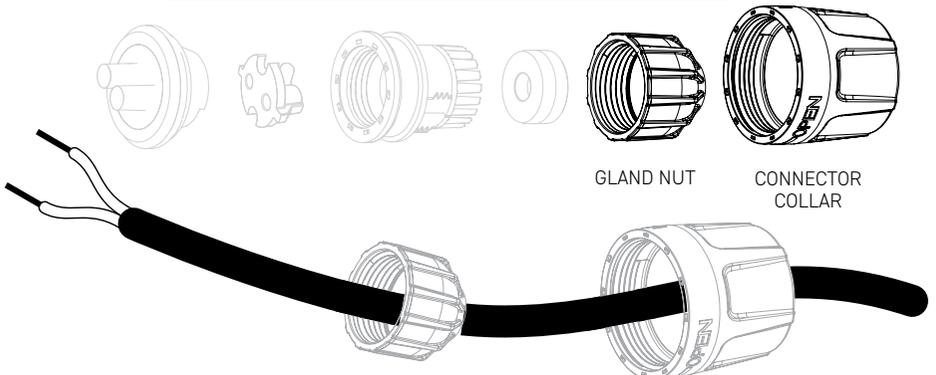


2 START ASSEMBLY OF CONNECTOR PLUG

LANOLIN USE



GENTLY WARM
LANOLIN
BEFORE USE

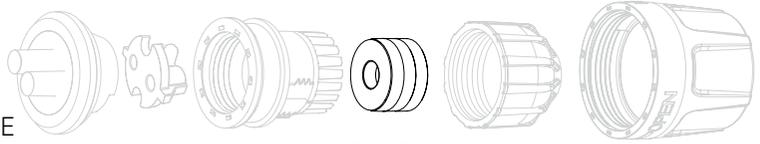


FEED THE CONNECTOR COLLAR AND GLAND NUT ONTO
THE CABLE, AS SHOWN

3

CHOOSE THE APPROPRIATE GLAND

SELECT A CABLE GLAND FROM THE THREE SUPPLIED THAT SNUGLY FITS THE EXISTING POWER CABLE



GLANDS
X 3 SIZES
PROVIDED



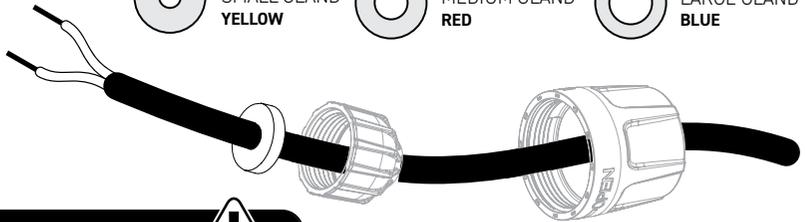
SMALL GLAND
YELLOW



MEDIUM GLAND
RED



LARGE GLAND
BLUE



IMPORTANT

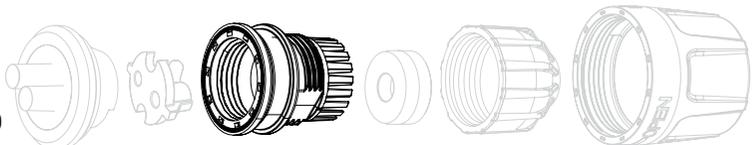


IF GLAND IS EXCESSIVELY TIGHT OR BULDGING WHEN FITTED, REPLACE WITH LARGER GLAND SIZE.

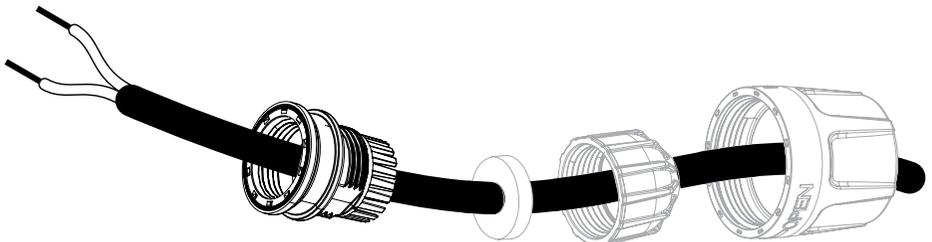
4

CONTINUE ASSEMBLY OF CONNECTOR PLUG

FEED THE CONNECTOR BARREL ONTO THE CABLE



CONNECTOR
BARREL

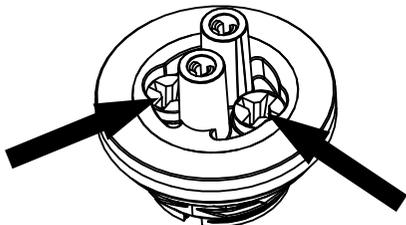


5

CHECK SCREWS ON SCREW TERMINAL END

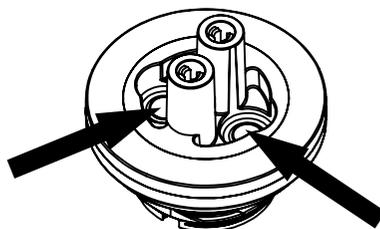
CHECK IF SCREWS ARE PRESENT IN THE TOP OF THE SCREW TERMINAL END

WITH SCREWS



USE A MANUAL PHILLIPS HEAD SCREWDRIVER TO ENSURE THAT THE 2 SCREWS INDICATED ARE FULLY SEATED. PROCEED TO STEP 6.

WITHOUT SCREWS

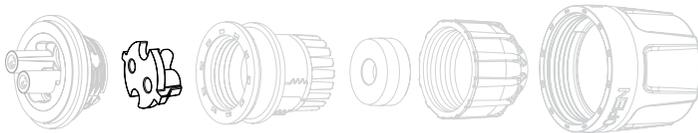


CHECK THERE ARE NO HOLES IN THE INDICATED LOCATIONS.

PROCEED TO STEP 6.

6

CHECK SCREWS ON SCREW TERMINAL END



STRAIN RELIEF CLIP
(OPTIONAL)

OPTION 1: WHEN USING THE LARGE CABLE GLAND, THE STRAIN RELIEF CLIP IS NOT REQUIRED.
FOLLOW STEP 7A (IGNORE STEP 7B).

OPTION 2: THE STRAIN RELIEF CLIP MUST BE USED WHEN THE SMALL OR MEDIUM CABLE GLAND IS USED.
FOLLOW STEP 7B (IGNORE STEP 7A).

STRAIN RELIEF CLIP REQUIRED



SMALL
GLAND



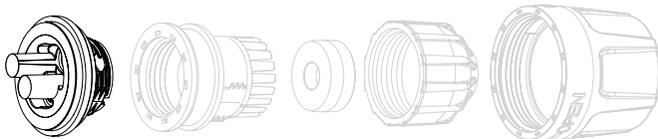
MEDIUM
GLAND



LARGE
GLAND

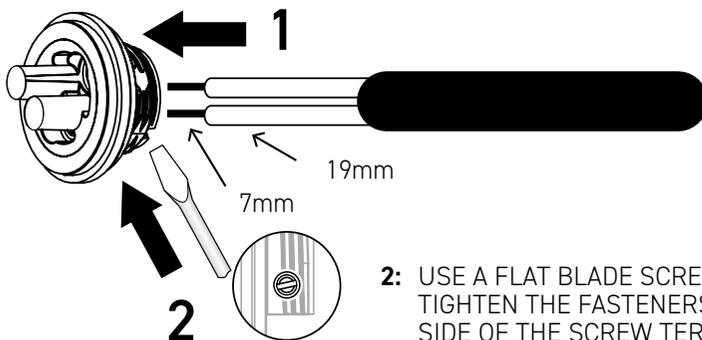
7A

CONNECT THE SCREW TERMINAL END



SCREW TERMINAL END

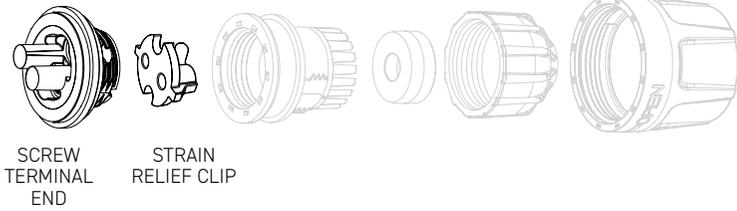
1: FEED THE TWO STRIPPED CABLE ENDS THROUGH THE TWO HOLES IN THE BACK OF THE SCREW TERMINAL END



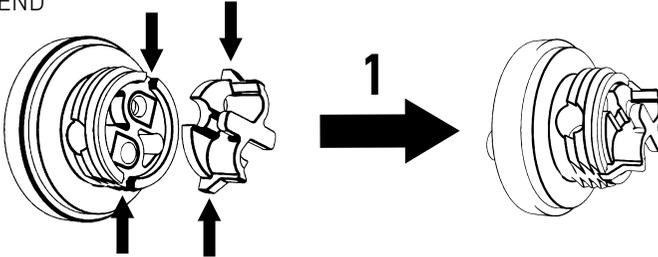
2: USE A FLAT BLADE SCREWDRIVER TO TIGHTEN THE FASTENERS ON EITHER SIDE OF THE SCREW TERMINAL

7B

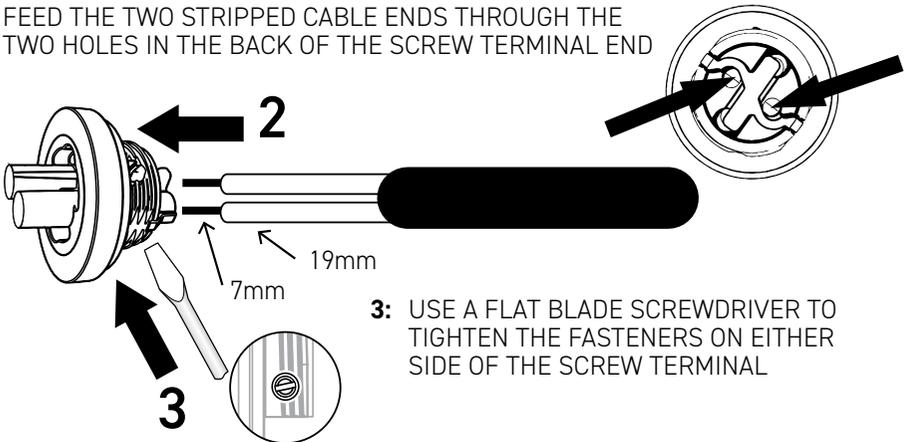
CONNECT THE SCREW TERMINAL END



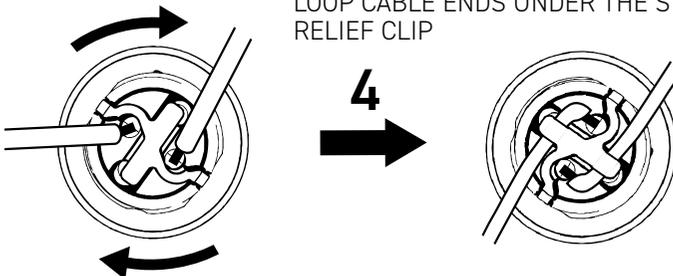
- 1:** ATTACH THE STRAIN RELIEF CLIP TO THE SCREW TERMINAL END



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



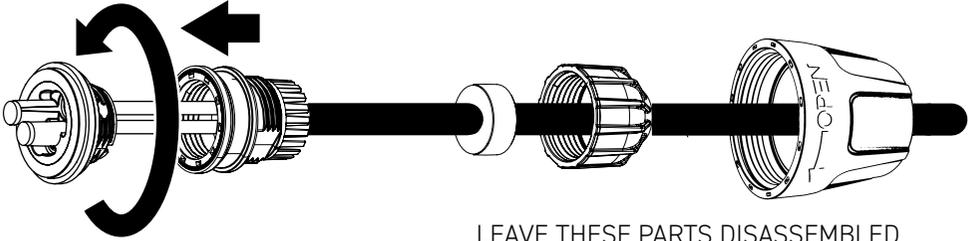
- 4:** TWIST THE SCREW TERMINAL AND LOOP CABLE ENDS UNDER THE STRAIN RELIEF CLIP



9

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

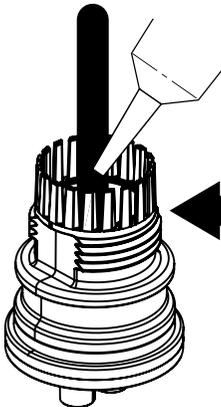
10

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)

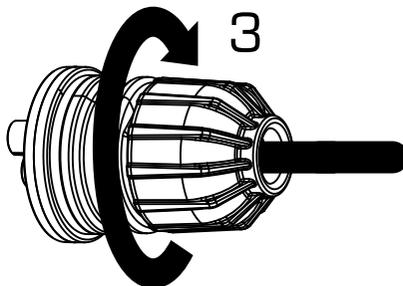
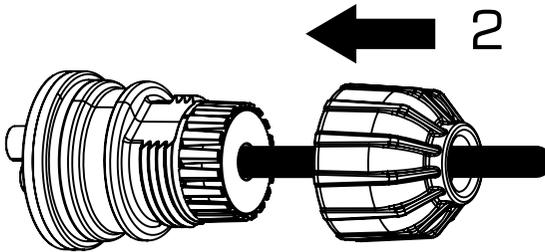
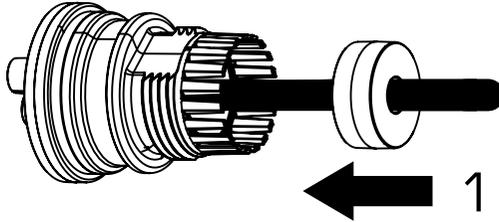
12

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

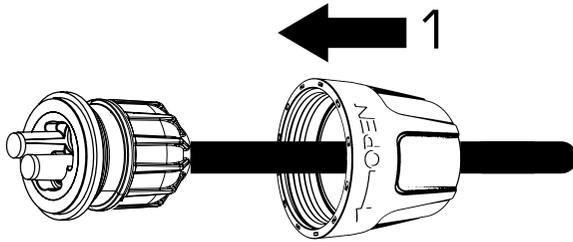
3: TIGHTEN GLAND NUT FIRMLY BY HAND



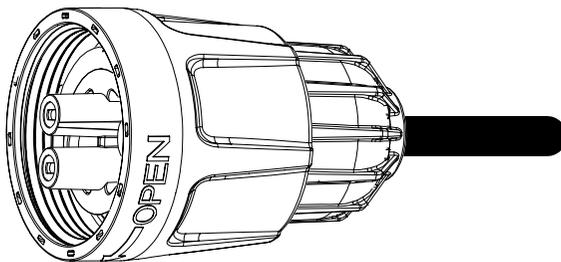
13

CONTINUE ASSEMBLY OF CONNECTOR PLUG

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

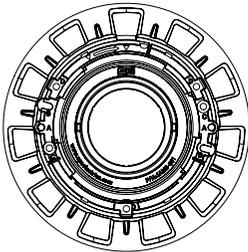


ASSEMBLED VIEW OF CONNECTOR PLUG

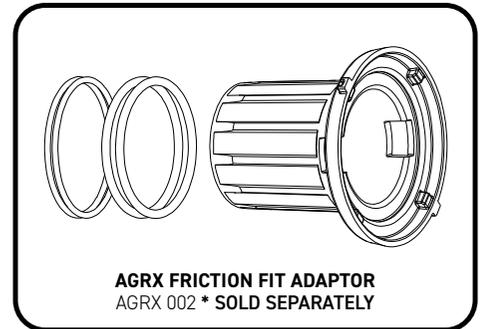
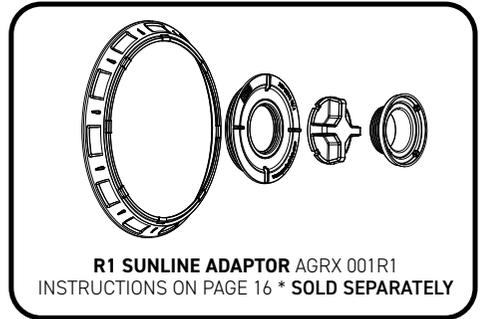


ADAPTOR PLATE INSTALLATION

LIGHT MODEL	POOL TYPE	SCREW LOCATIONS	ADDITIONAL PARTS (SOLD SEPARATELY)
ASTRAL SLX / ARC / DELTA	CONCRETE	D-D-D (TRIM SCREW LOCATION A)	
ASTRAL SLX / ARC / DELTA	FIBREGLASS	D-D-D (TRIM SCREW LOCATION A)	AGRX 004R1
AQUAQUIP EV02, EVOMAX, AQUASTAR & AURORA	CONCRETE	C-C	
AQUAQUIP EV02, EVOMAX, AQUASTAR & AURORA	FIBREGLASS	C-C	AGRX 004R1
AUTUMN SOLAR NICHE LIGHT	CONCRETE / FIBREGLASS	N/A	AGRX 002
SPA ELECTRICS WN SERIES	CONCRETE	B-B	
SPA ELECTRICS WN SERIES	FIBREGLASS	B-B	AGRX 004R1
SUNLINE	CONCRETE / FIBREGLASS	N/A	AGRX 001R1
WATERCO BRITESTREAM / BRITESTREAM 165	CONCRETE	A-A	
WATERCO BRITESTREAM 165	FIBREGLASS	A-A	AGRX 004R1

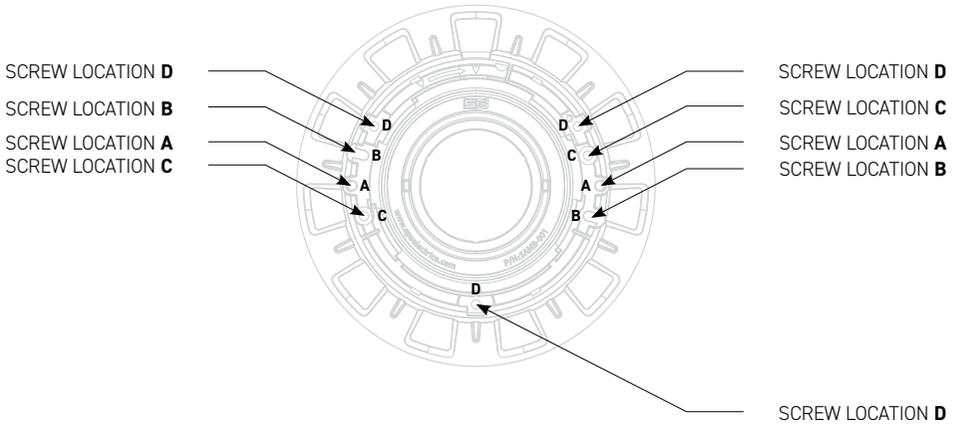


R1 ADAPTOR PLATE
(P/N: SAMB 001)



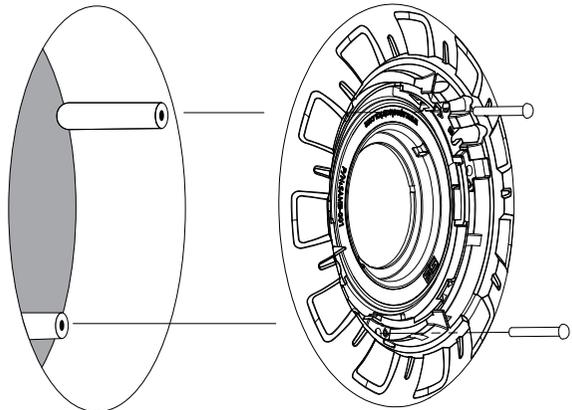
ADAPTOR INSTALL

1 IDENTIFY SCREW POSITIONS



2 ATTACH ADAPTOR PLATE

PLACE THE ADAPTOR PLATE OVER THE NICHE AND FASTEN **USING EXISTING SCREWS**



3

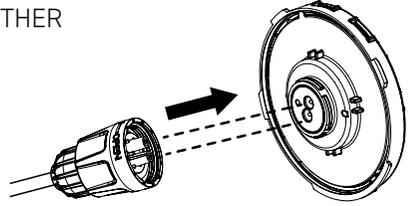
CONNECT THE TERMINALS

ALIGN THE TERMINAL PINS ON PLUG AND BACK OF LIGHT ASSEMBLY AND FIRMLY CONNECT TOGETHER

IMPORTANT NOTES



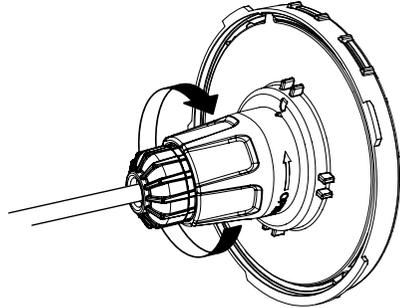
- DO NOT ADD SEALANTS, GREASES OR ADHESIVES
- ENSURE ALL SURFACES ARE CLEAN AND DRY
- **DO NOT ASSEMBLE UNDERWATER**



4

FASTEN PLUG TO LIGHT

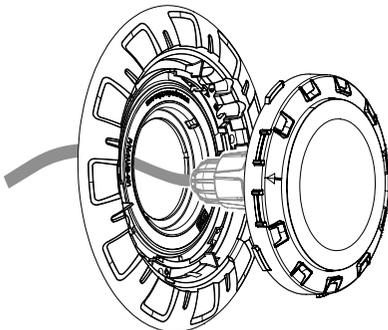
THREAD PLUG COLLAR ONTO AGRX LIGHT AND TIGHTEN FIRMLY BY HAND



5

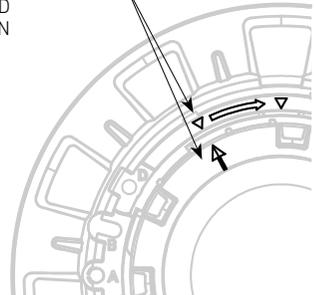
INSTALL LIGHT ONTO SMALL ADAPTOR PLATE

ALIGN THE ARROW ON THE LIGHT WITH THE LEFT ARROW (11 O'CLOCK POSITION) ON THE SMALL ADAPTOR PLATE



Align Arrows

ARROW ALIGNMENT
SHOWING UNLOCKED
POSITION

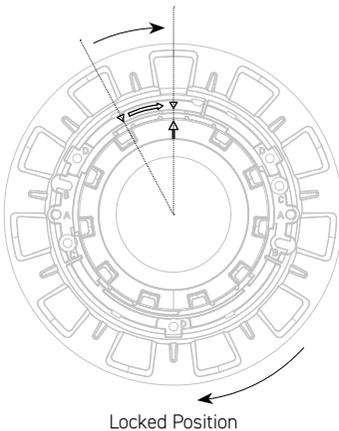


Unlocked Position

5

STEP 5 CONTINUED...

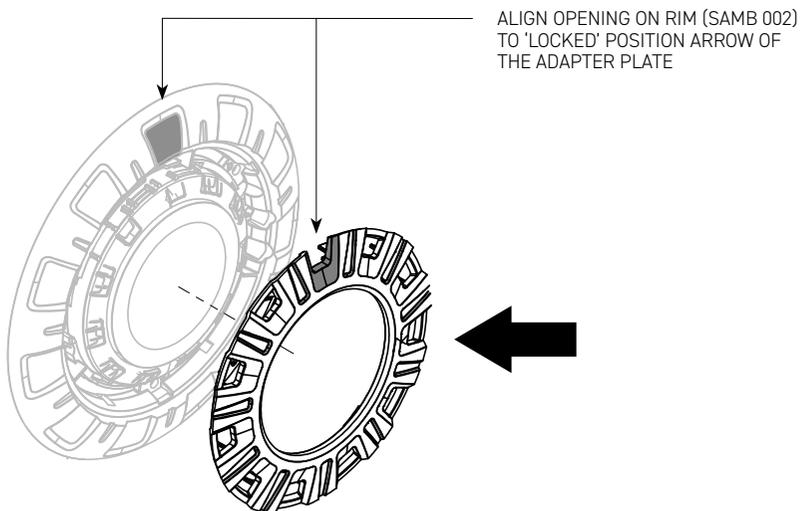
TWIST LIGHT CLOCKWISE UNTIL TOP ARROWS ALIGN



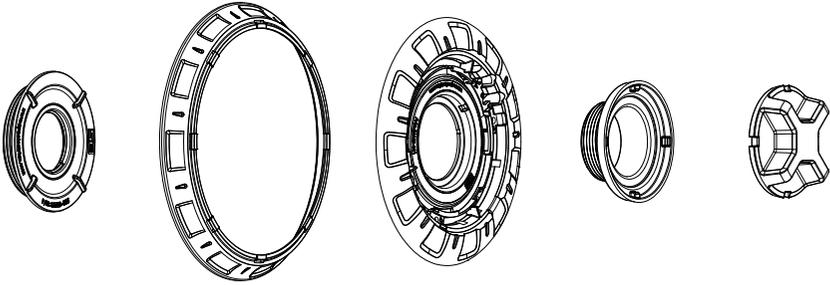
6

CLIP ON RIM

ALIGN THE ARROW ON THE RIM WITH THE TOP ARROW (12 O'CLOCK POSITION) ON THE ADAPTOR PLATE. PRESS THE RIM ONTO THE LIGHT BY HAND



AGRX 001 SUNLINE ADAPTOR ASSEMBLY



SUNLINE ADAPTOR
(P/N: SAMB 005)

R1 FIBREGLASS SKIRT
(P/N: SAMB 004)

R1 ADAPTOR PLATE
(P/N: SAMB 001)

THREADED COLLAR
(P/N: VIVO 041)

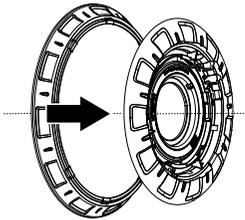
ADAPTOR TOOL
(P/N: VIVO 045)

STEPS

SUNLINE ADAPTOR INSTALLATION

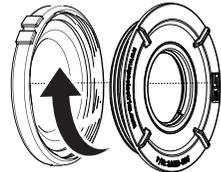
STEP 1

ATTACH ADAPTOR SKIRT TO AGRX R1 ADAPTOR PLATE



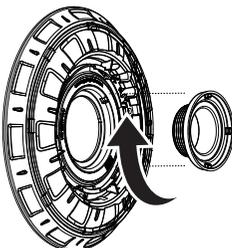
STEP 2

THREAD SUNLINE ADAPTOR INTO EXISTING NICHE. TIGHTEN FIRMLY BY HAND



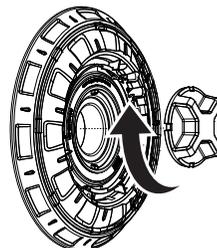
STEP 3

AFFIX AGRX R1 ADAPTOR PLATE TO NICHE USING ADAPTOR COLLAR. START THREAD BY HAND & CONTINUE TO STEP 4



STEP 4

FIRMLY SECURE AGRX R1 ADAPTOR PLATE TO NICHE USING ADAPTOR TOOL PROVIDED



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