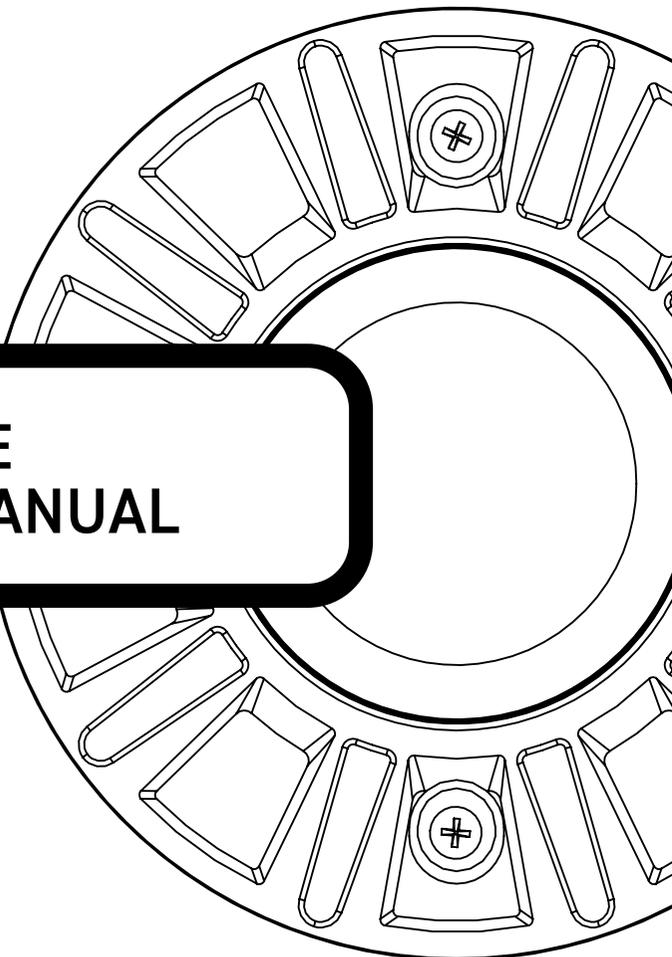


SE Spa Electrics®

retro®

REPLACEMENT LED POOL LIGHT



**FLUSH-NICHE
RETRO FIT MANUAL**

AGRX R3

INSTALLATION & OWNER'S MANUAL

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PRODUCT SUPPORT AND INFORMATION

Telephone: 03 9793 2299 (Business hours 8:30 – 4:30)

SALES ENQUIRIES

E. sales@spaelectrics.com.au

TECHNICAL SUPPORT

E. tech@spaelectrics.com.au

www.spaelectrics.com.au

QUICK REFERENCE TABLE

| LIGHT MODEL | POOL TYPE | OFFSET MOUNTING BRACKET |
|--------------------|---------------|-------------------------|
| ASTRAL ARC / DELTA | CONCRETE ONLY | REQUIRED |
| ASTRAL SLX | CONCRETE ONLY | REQUIRED |
| AQUAQUIP EVO/ EVO2 | CONCRETE ONLY | N/A |
| AQUAQUIP EVOMAX | CONCRETE ONLY | N/A |
| AQUAQUIP AURORA | CONCRETE ONLY | N/A |

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 30 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

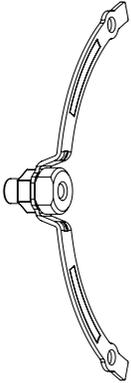


The use of power tools (such as 240V and cordless drills) during installation is not recommended as these devices can cause faults and damage to light components.

If you are unsure, please contact Spa Electrics

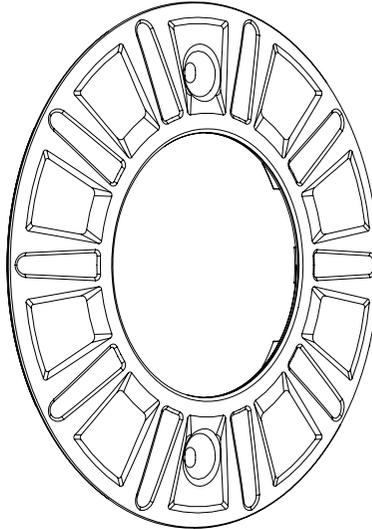
INCLUDED PARTS

MODEL: AGRX R3

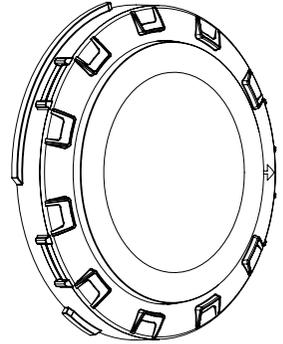


OFFSET MOUNTING BRACKET

(Required for retro fitting Astral SLX & ARC/DELTA lights)



AGRX R3 ADAPTOR PLATE (P/N: AGRX 009R3)



LIGHT ASSEMBLY supplied pre-attached to the SLX ADAPTOR PLATE

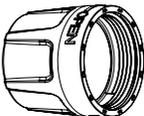


LANOLIN



4X MOUNTING SCREWS

PLUG ASSEMBLY (P/N: AG 003)



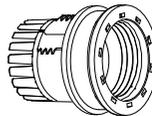
Connector Collar



Gland Nut



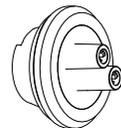
Glands X 3 Sizes Provided



Connector Barrel



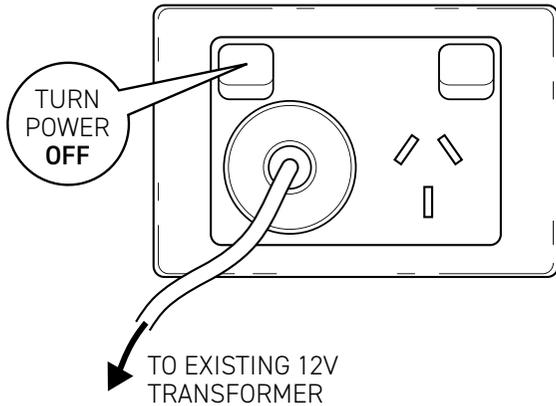
Strain Relief Clip
(Optional)



Screw Terminal End with screws attached

TRANSFORMER VERIFICATION

1 TURN POWER OFF



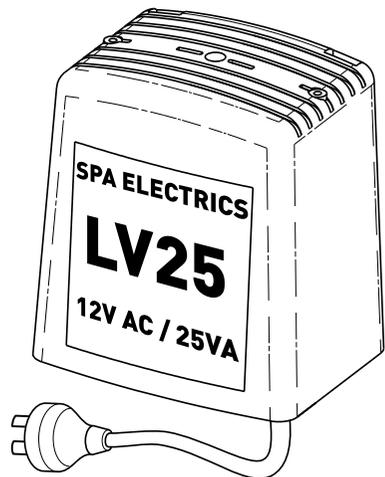
2 CHECK TRANSFORMER

EXISTING TRANSFORMER MUST BE:

- 12V AC ONLY
- MIN 15 WATT (PER LIGHT)
- IN GOOD WORKING ORDER

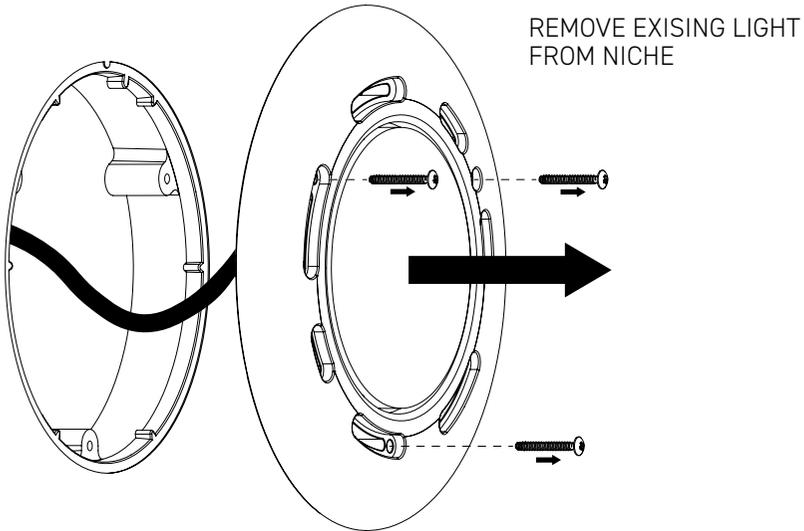
EXISTING TRANSFORMER MUST NOT BE:

- DC OR LED DRIVER
- ELECTRONIC OR SWITCH MODE
- WEATHER DAMAGED OR IN OTHERWISE POOR CONDITION



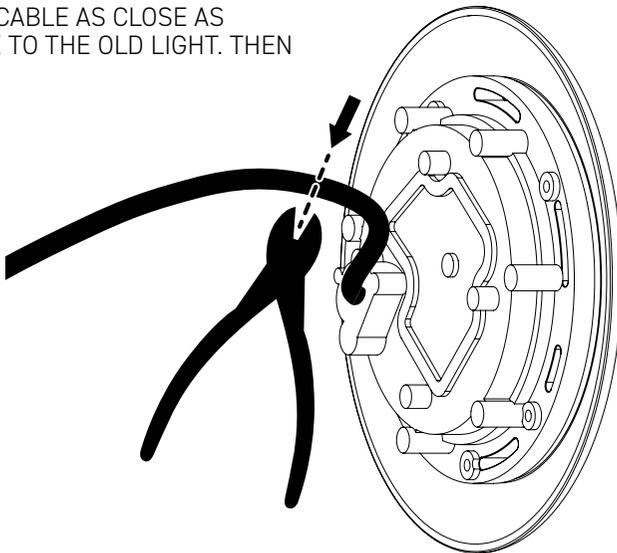
LIGHT REMOVAL

1 REMOVE EXISTING LIGHT



2 DISCONNECT EXISTING LIGHT

CUT THE CABLE AS CLOSE AS POSSIBLE TO THE OLD LIGHT. THEN DISCARD.



CABLE PREPARATION

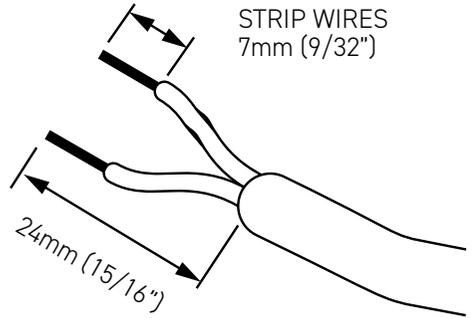
1 CABLE PREPARATION

STRIP POWER CABLE
TO SPECIFIED LENGTH

NOTE



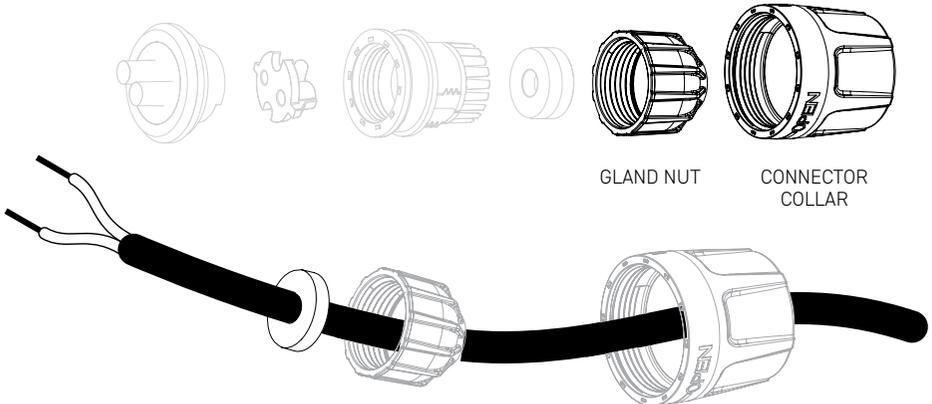
IF CABLE LENGTH ALLOWS,
CUT CABLE BACK UNTIL
FRESH COPPER APPEARS



STRIP WIRES
7mm (9/32")

24mm (15/16")

2 START ASSEMBLY OF CONNECTOR PLUG



GLAND NUT

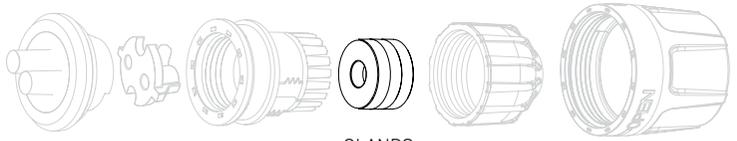
CONNECTOR
COLLAR

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

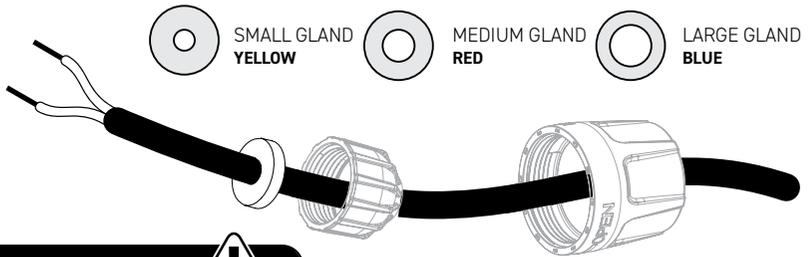
3

CHOOSE THE APPROPRIATE GLAND

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



GLANDS
X 3 SIZES
PROVIDED



IMPORTANT

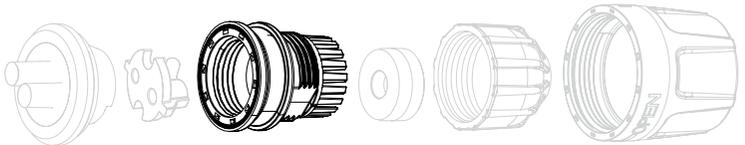


IF GLAND IS EXCESSIVELY TIGHT OR BULGING WHEN FITTED, REPLACE WITH LARGER GLAND SIZE

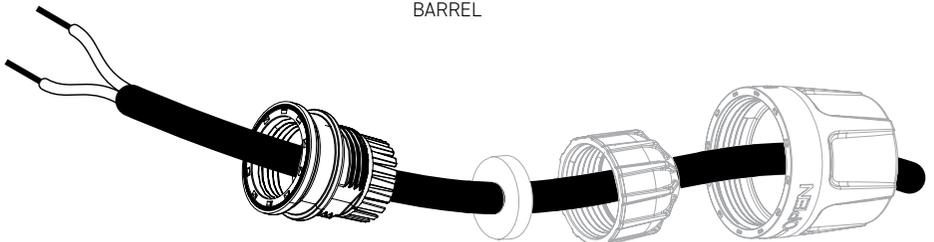
4

CONTINUE ASSEMBLY OF CONNECTOR PLUG

FEED THE CONNECTOR BARREL ONTO THE CABLE



CONNECTOR
BARREL

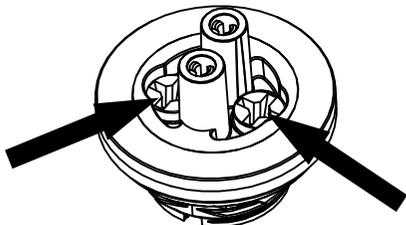


5

CHECK SCREWS ON SCREW TERMINAL END

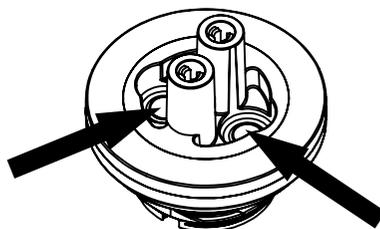
CHECK IF SCREWS ARE PRESENT IN THE TOP OF THE SCREW TERMINAL END

WITH SCREWS



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

WITHOUT SCREWS

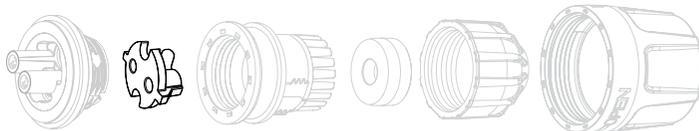


CHECK THERE ARE NO HOLES IN THE INDICATED LOCATIONS.

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



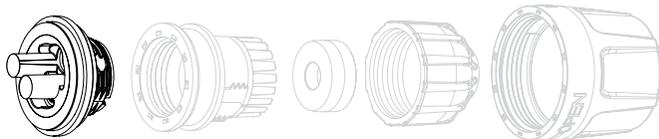
MEDIUM
GLAND



LARGE
GLAND

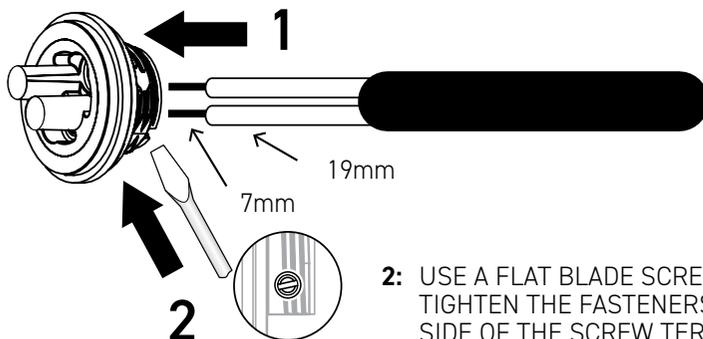
7A

CONNECT THE SCREW TERMINAL END



SCREW TERMINAL END

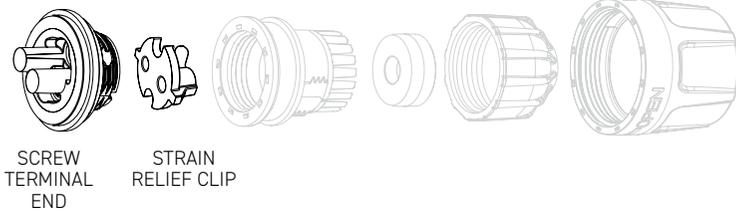
1: FEED THE TWO STRIPPED CABLE ENDS THROUGH THE TWO HOLES IN THE BACK OF THE SCREW TERMINAL END



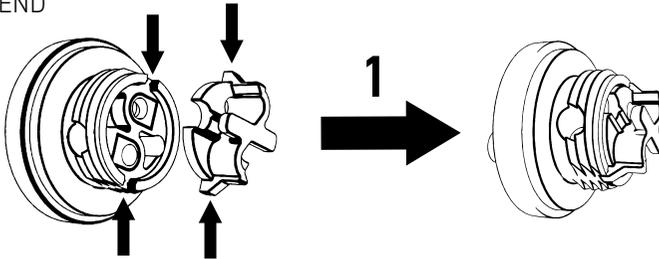
2: USE A FLAT BLADE SCREWDRIVER TO TIGHTEN THE FASTENERS ON EITHER SIDE OF THE SCREW TERMINAL

7B

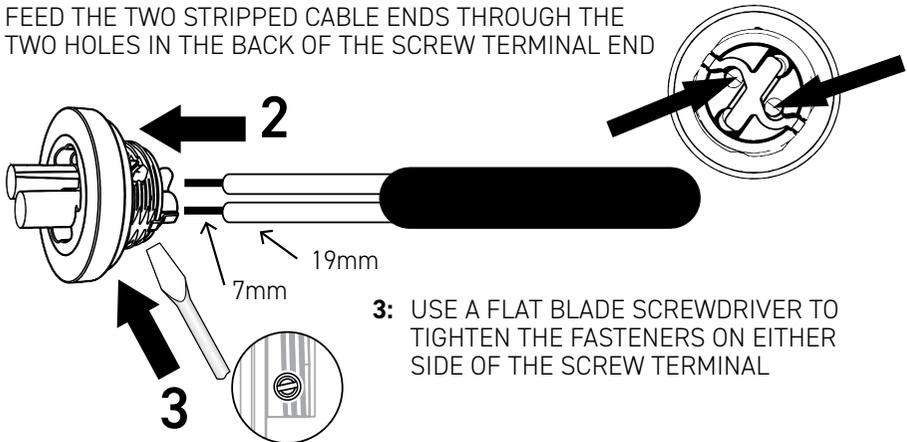
CONNECT THE SCREW TERMINAL END



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

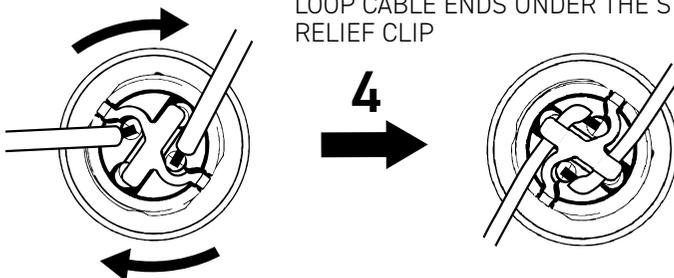


2: FEED THE TWO STRIPPED CABLE ENDS THROUGH THE TWO HOLES IN THE BACK OF THE SCREW TERMINAL END



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

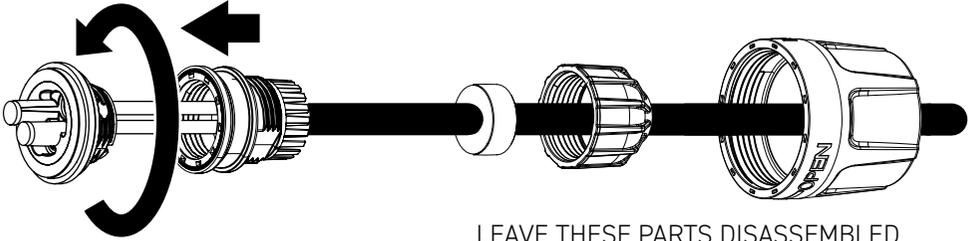
4: TWIST THE SCREW TERMINAL AND LOOP CABLE ENDS UNDER THE STRAIN RELIEF CLIP



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

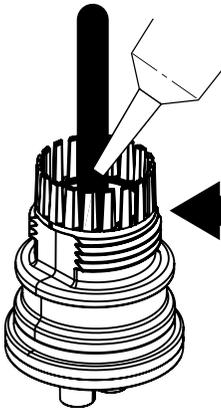
10

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)

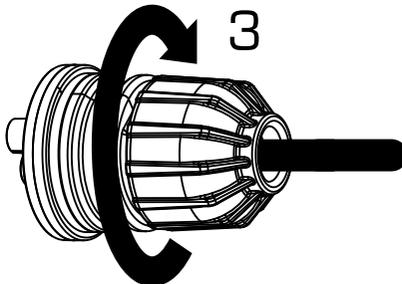
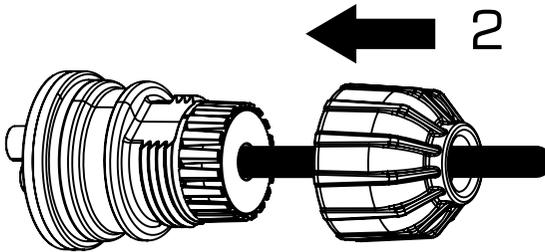
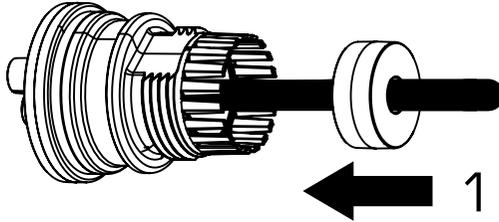
12

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

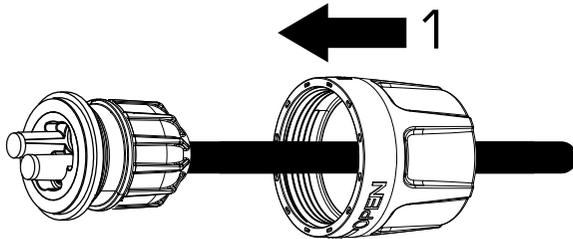
3: TIGHTEN GLAND NUT FIRMLY BY HAND



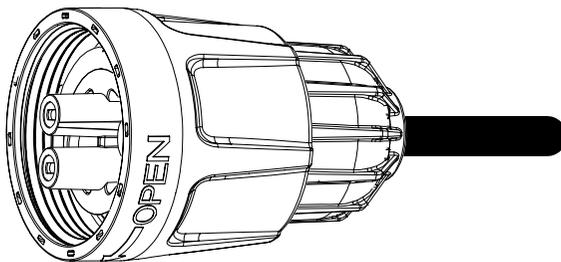
13

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



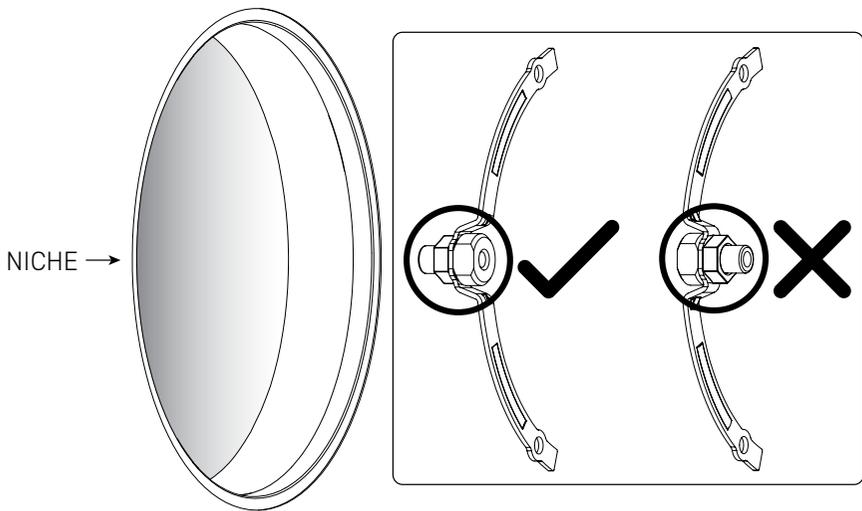
OFFSET BRACKET INSTALLATION

THE OFFSET MOUNTING BRACKET IS ONLY REQUIRED FOR ASTRAL SLX & ASTRAL ARC/DELTA LIGHTS.

FOR THE INSTALLATION OF OTHER LIGHTS, SKIP TO THE NEXT SECTION: **LIGHT ASSEMBLY INSTALLATION** ON PAGE 18.

1 ORIENTATE THE SLX MOUNTING BRACKET

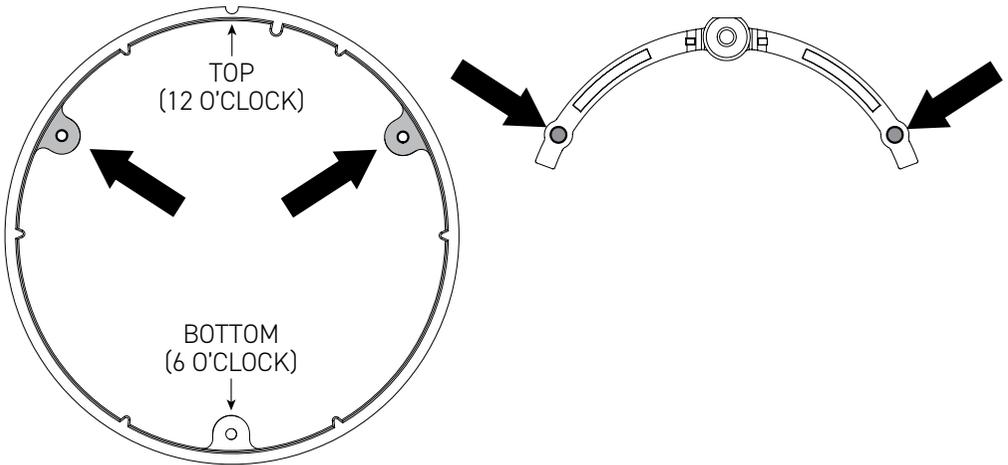
ENSURE THE SLX MOUNTING BRACKET IS ORIENTATED CORRECTLY.



2

ALIGN THE SLX MOUNTING BRACKET

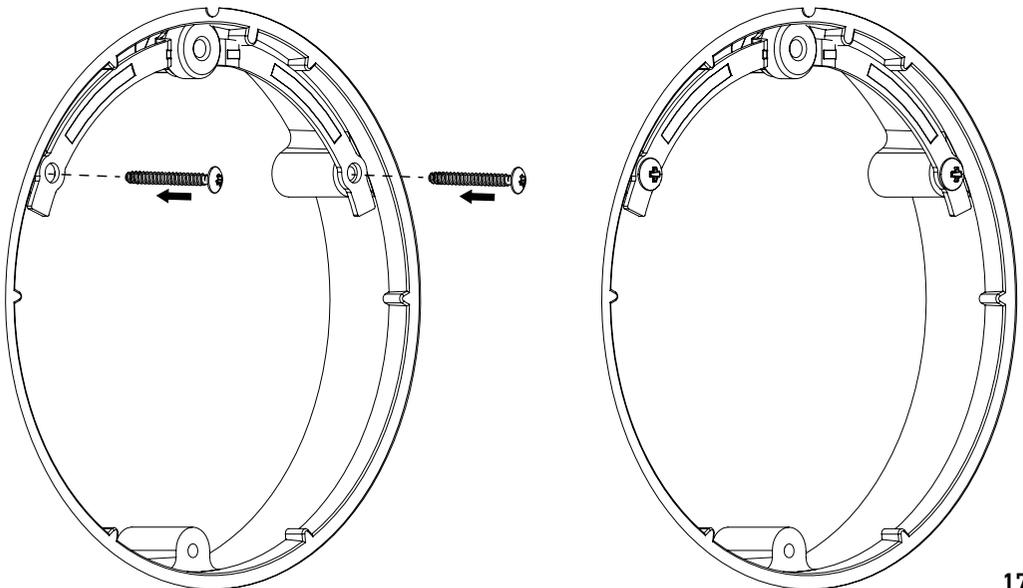
ALIGN THE SLX MOUNTING BRACKET TO THE TOP TWO SCREW HOLES AS INDICATED BELOW.



3

AFFIX THE SLX MOUNTING BRACKET

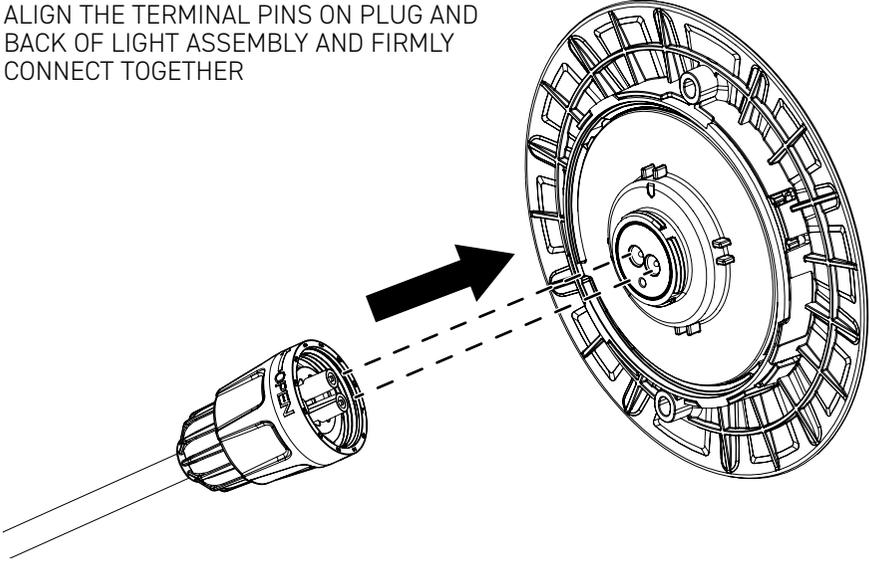
USING A SCREWDRIVER, FASTEN THE SLX MOUNTING BRACKET INTO THE NICHE AS SHOWN WITH TWO OF THE PROVIDED PHILLIPS HEAD SCREWS.



LIGHT ASSEMBLY INSTALLATION

4 CONNECT THE TERMINALS

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



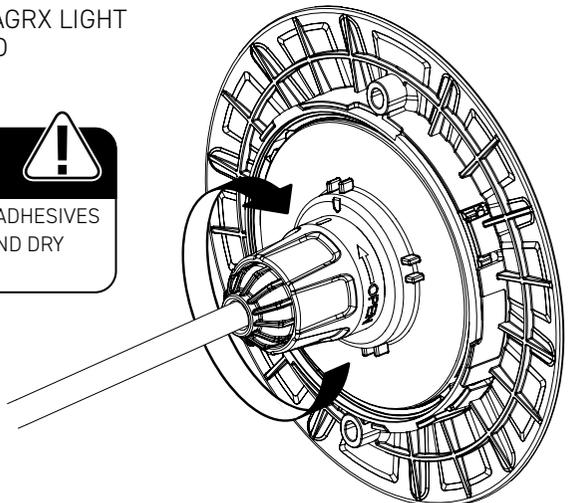
5 FASTEN PLUG TO LIGHT

THREAD PLUG COLLAR ONTO AGRX LIGHT AND TIGHTEN FIRMLY BY HAND

IMPORTANT NOTES



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

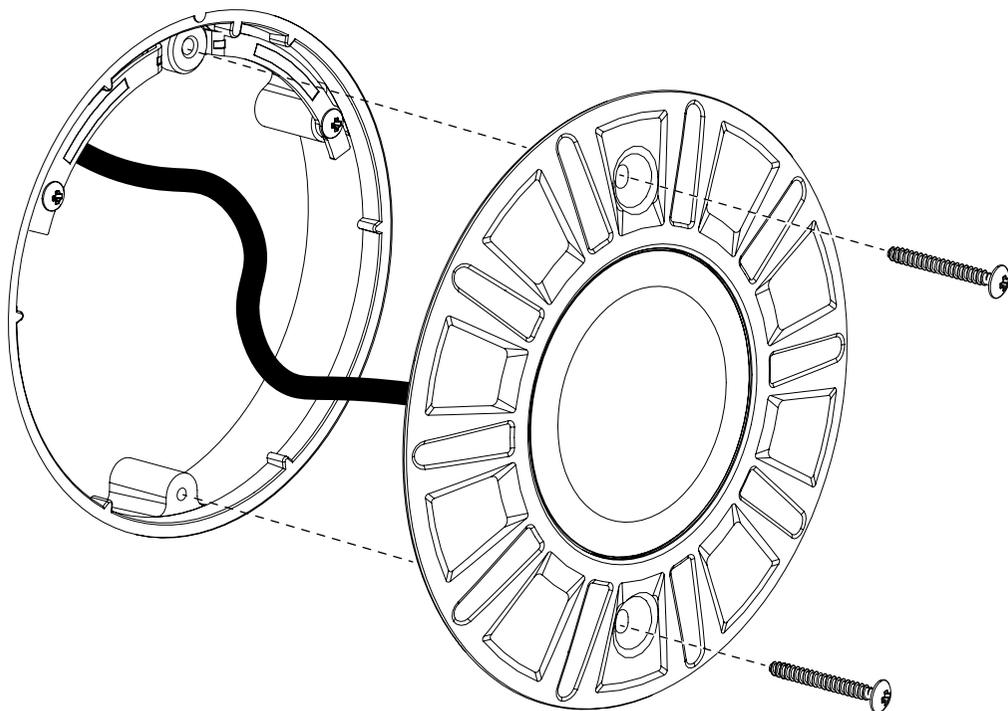


6

AFFIX LIGHT ASSEMBLY TO NICHE

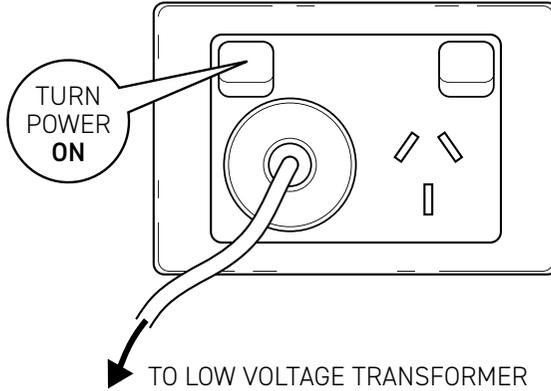
ALIGN THE LIGHT ASSEMBLY USING THE SCREW HOLES BETWEEN THE ADAPTOR AND NICHE.

USING A PHILLIPS HEAD SCREWDRIVER, FASTEN TWO OF THE PROVIDED SCREWS, TIGHTENING BY HAND ONLY.



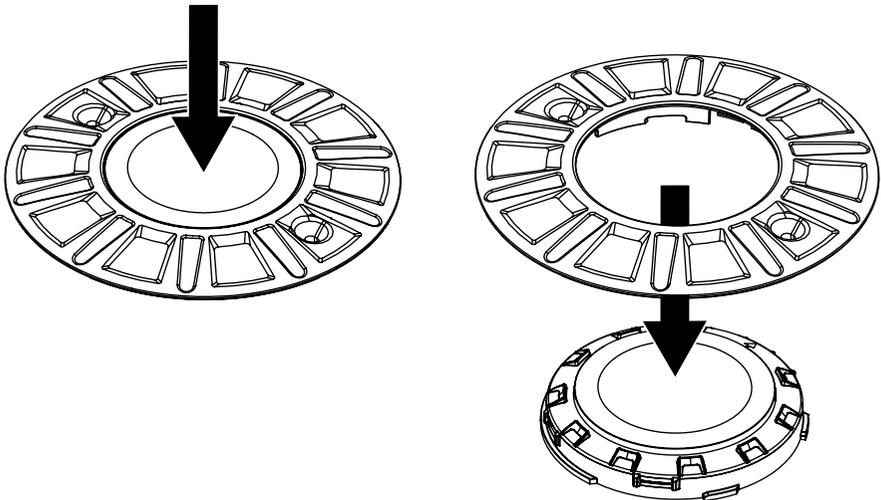
POST INSTALLATION CHECK

1 TEST SYSTEM



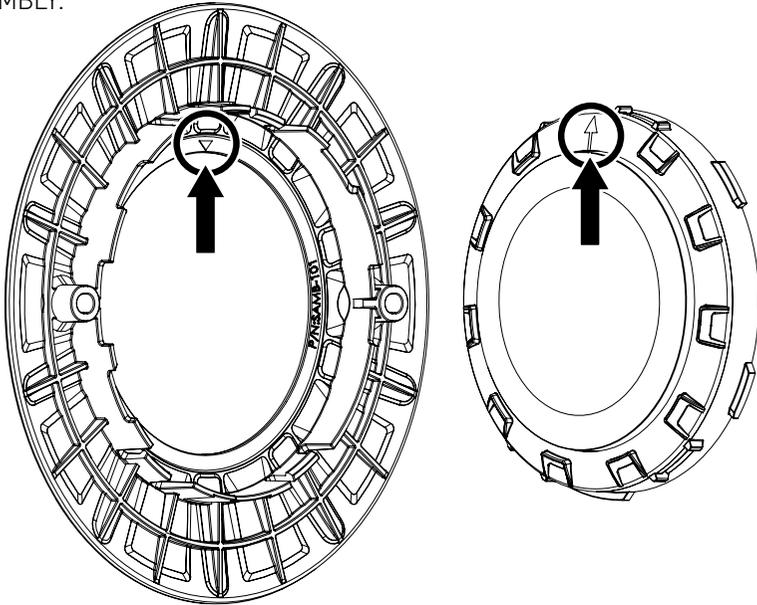
DETACHING THE ADAPTOR PLATE

IF REQUIRED, THE LIGHT ASSEMBLY CAN BE UNCLIPPED FROM THE ADAPTOR PLATE BY CAREFULLY PUSHING ON THE LENS FROM THE FRONT WHILE HOLDING THE ADAPTOR PLATE.

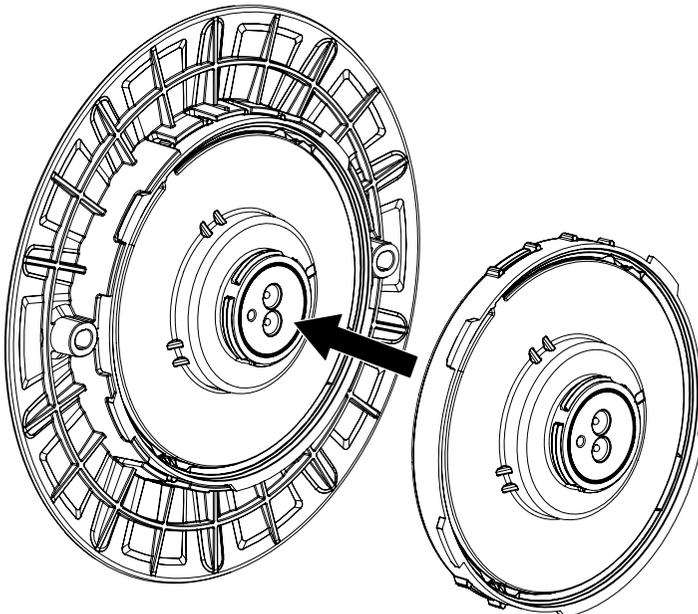


ATTACHING THE ADAPTOR PLATE

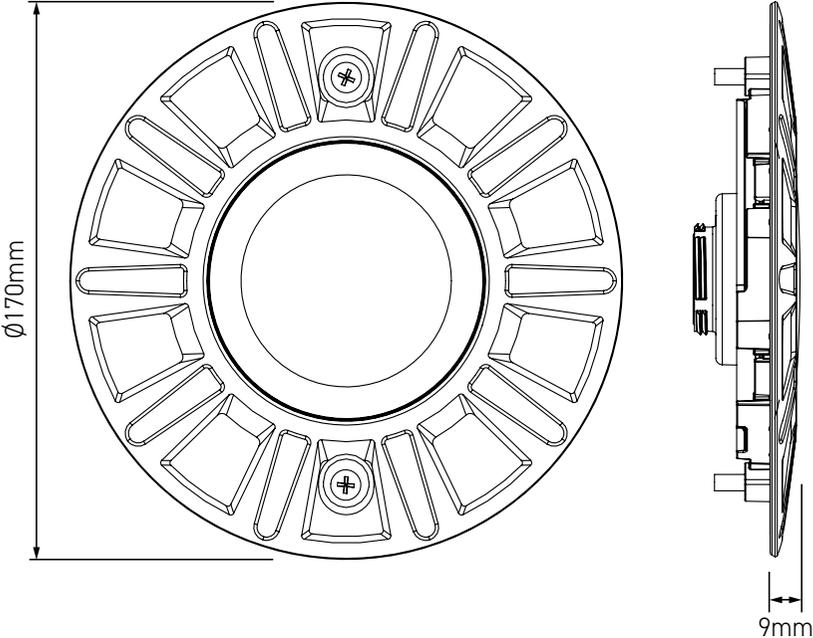
ALIGN THE TOP MARKERS OF THE ADAPTOR PLATE AND THE LIGHT ASSEMBLY.



PUSH THE TWO TOGETHER UNTIL THEY CLICK INTO PLACE. ENSURE THE LIGHT IS FULLY CLICKED INTO PLACE ALL THE WAY AROUND.



KEY DIMENSIONS



PAGE INTENTIONALLY LEFT BLANK



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