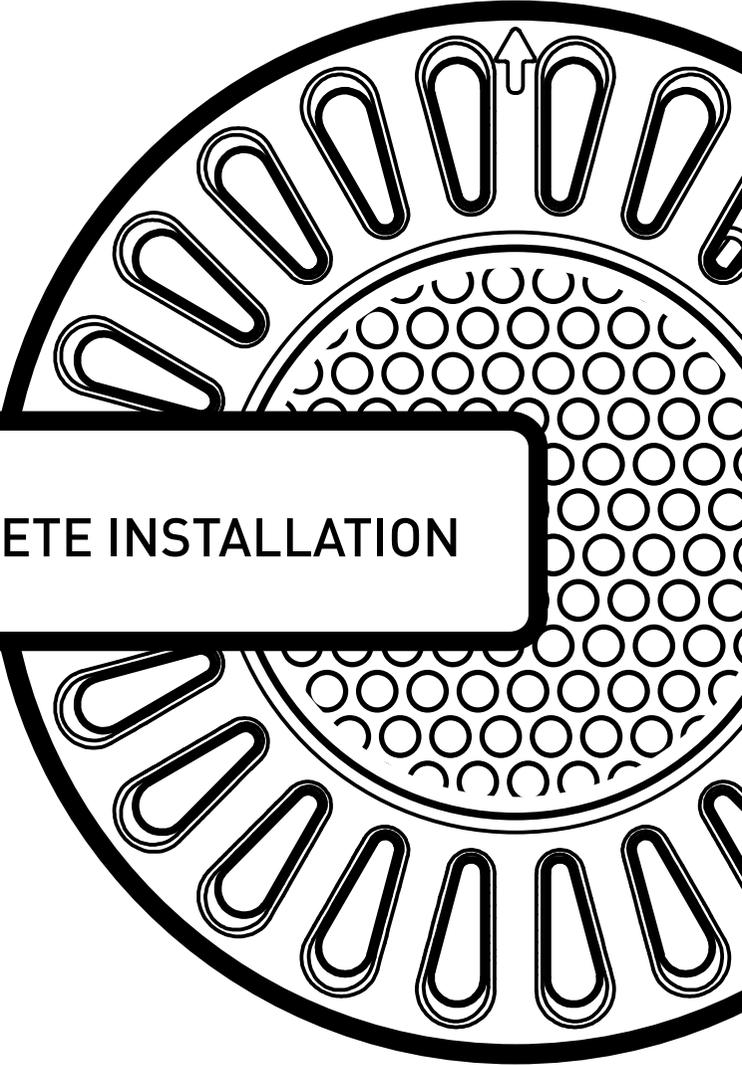




atom  
EMC SERIES



CONCRETE INSTALLATION

ULTRA COMPACT NICHE LIGHT

**INSTALLATION &  
OWNER'S MANUAL**



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# READ THIS FIRST

This booklet contains important information about the correct installation and handling of EM-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:

- EM-series cables can be shortened to suit individual installation requirements. Spa Electrics recommends all cabling is protected by conduit and that a conduit draw-box (or similar) is incorporated into pool cabling design to avoid siphoning. 20m cable is supplied as standard; 30m & 50m cable lengths are available to order from Spa Electrics or your distributor.
- Ensure that the lighting system is installed by a suitably qualified person (e.g. registered pool builder and/or qualified electrician), in accordance with the most current edition and/or amendment of AS/NZS 3000:2007 standards.
- For safe and proper installation, ensure that only those parts supplied with the system are used.
- Maximum installation depth for EM-Series lights is 400mm below coping (to centre of light)
- All lights should be mounted in a location that is easily accessible without the need for entering or lowering the pool water.
- At least 700mm cable must remain stored within the Niche to ensure the light can be accessed above the waterline. (Maximum cable within niche = 2 metres).
- EM-series lights can be mounted at any angle provided the installation conforms to the above items.

## CLEANING

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

## USE

- Do not operate light unless completely submerged in water.
- Operating the light for at least 15 minutes every week is advised (all year round).
- EM-series lights are suited for both domestic and commercial installations and can be operated continuously (24/7) if required.



## WARNING

The EM series light must only be powered by the supplied 12V AC SPA ELECTRICS transformer.

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

# TOOLS REQUIRED

- No. 2 Phillips screwdriver
- 13mm open-ended spanner
- Flat-blade screw driver (for EM-light removal)



## IMPORTANT NOTE

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.

All installation steps should be carried out with manual tools only.

## PRODUCT SUPPORT & INFORMATION

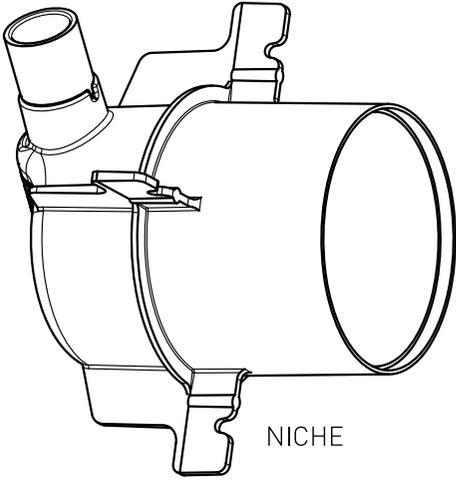
Phone: +61 3 9793 2299 (business hours)

Email: [sales@spaelectrics.com.au](mailto:sales@spaelectrics.com.au) (SALES enquiries)

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

Web: [www.spaelectrics.com.au](http://www.spaelectrics.com.au)

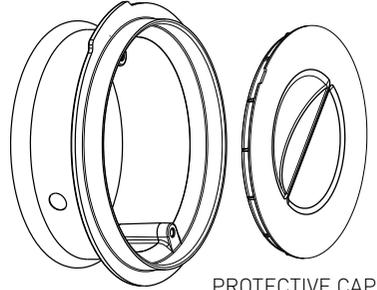
# INCLUDED PARTS



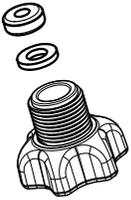
NICHE



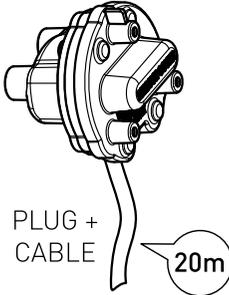
PROTECTIVE CAP



PROTECTIVE CAP  
MOUNTING RING

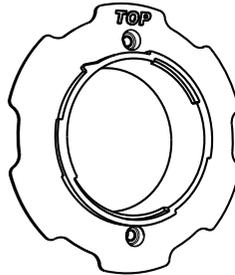


CABLE  
GLAND

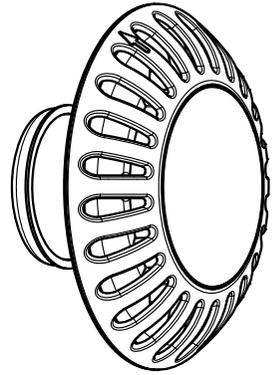


PLUG +  
CABLE

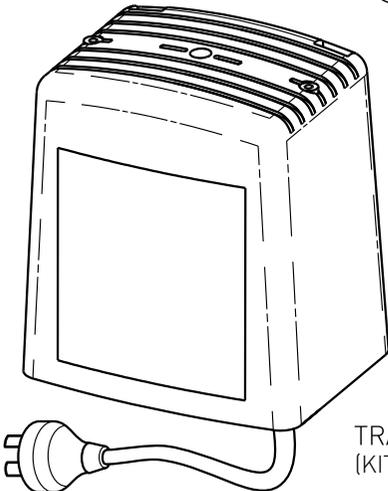
20m



LOCKING  
RING  
(INC 2 X SCREWS)



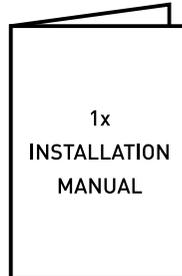
LIGHT



TRANSFORMER  
(KITS ONLY)



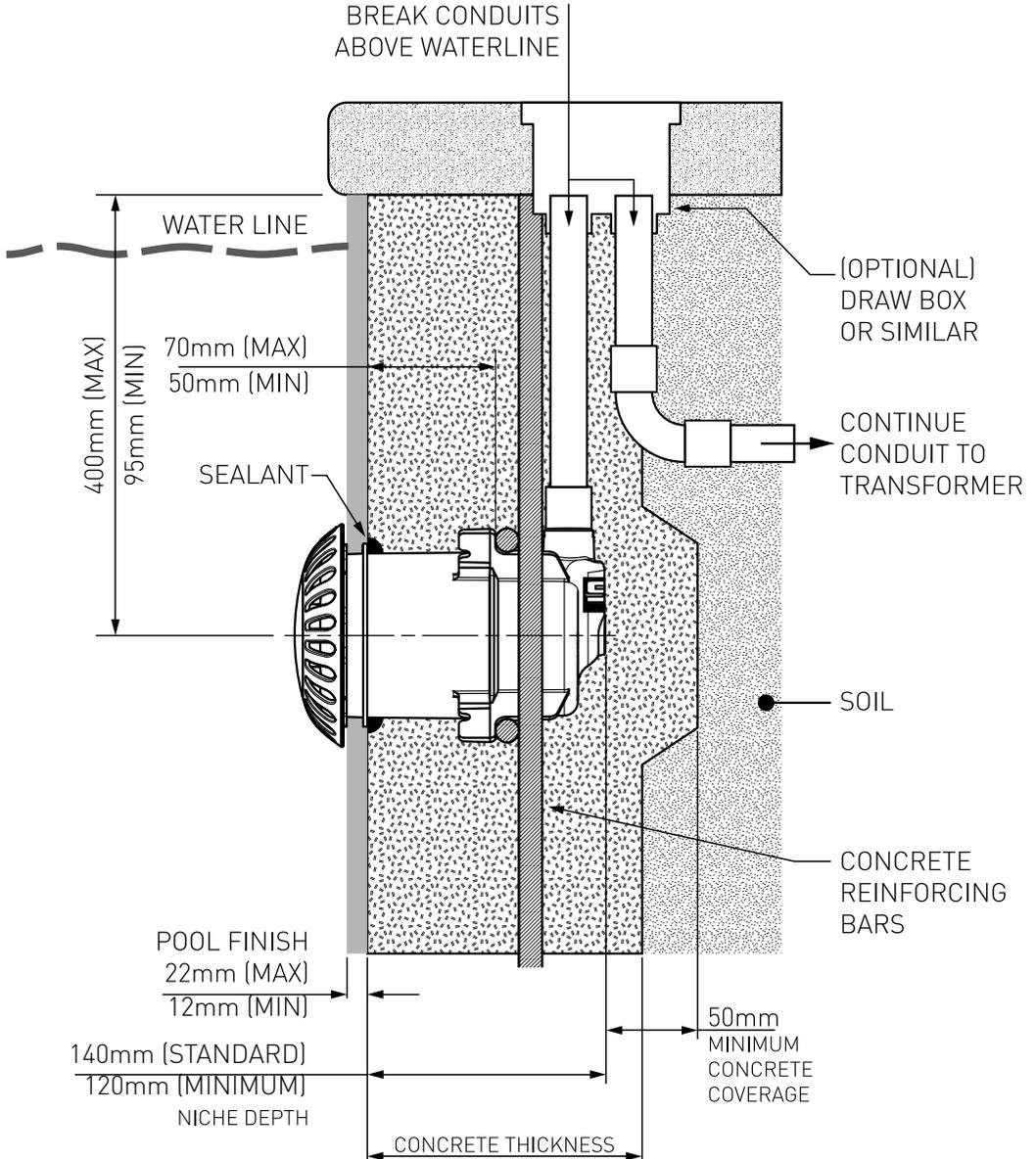
1x  
WARRANTY



1x  
INSTALLATION  
MANUAL

# FINISHED INSTALLATION

## OPTION 1: STANDARD WALL MOUNTING

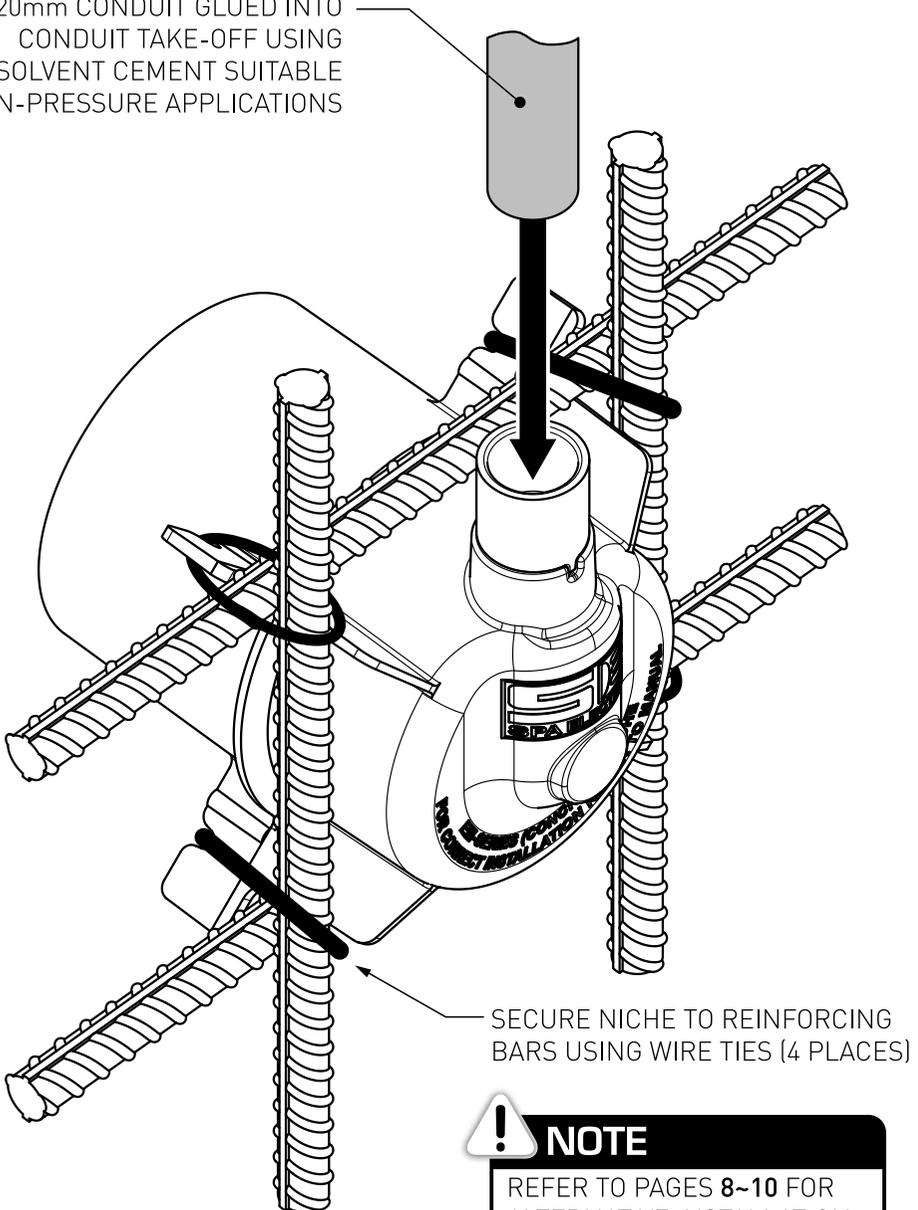




# INSTALLATION

## 1 VERTICAL CONDUIT INSTALLATION

20mm CONDUIT GLUED INTO  
CONDUIT TAKE-OFF USING  
PVC SOLVENT CEMENT SUITABLE  
FOR NON-PRESSURE APPLICATIONS



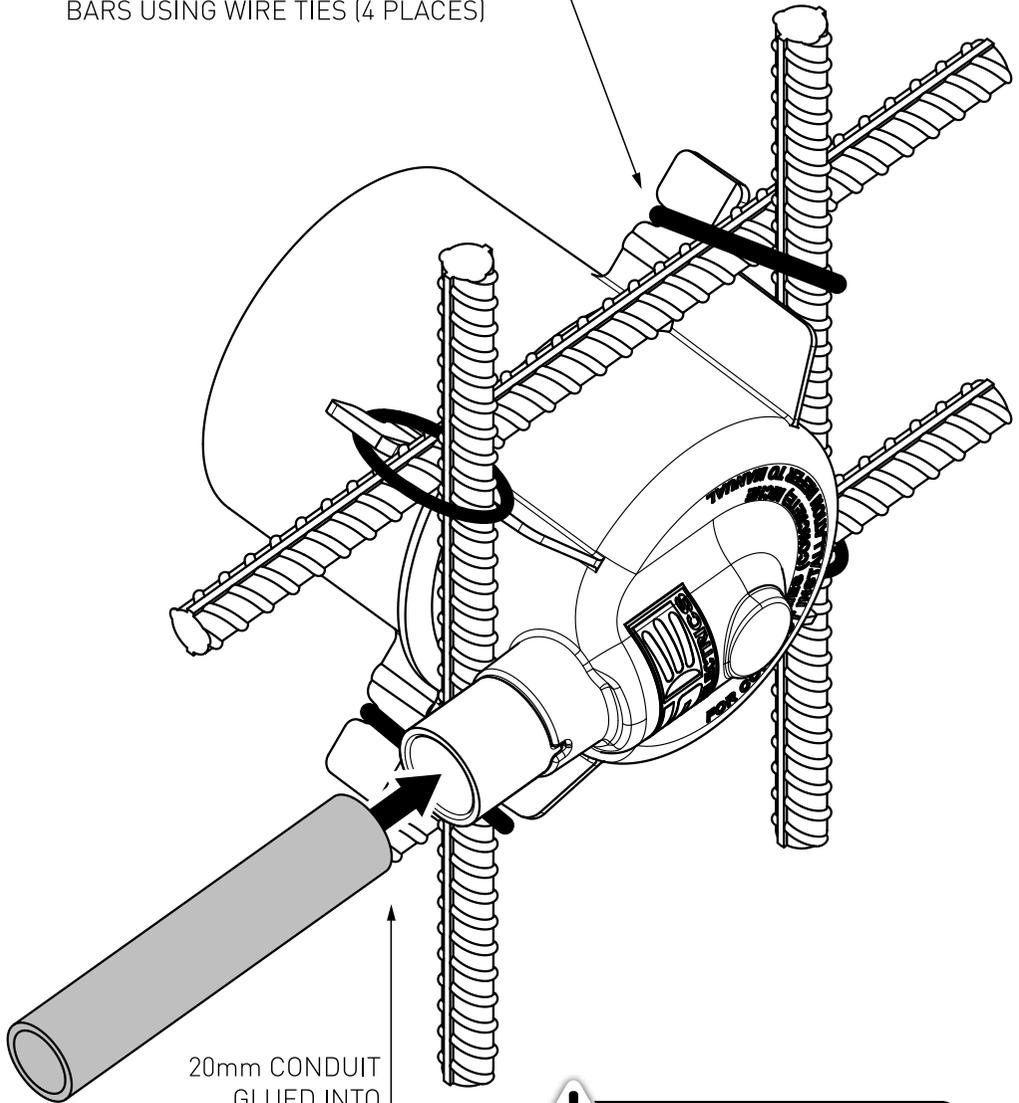
### ! NOTE

REFER TO PAGES 8~10 FOR  
ALTERNATIVE INSTALLATION  
CONFIGURATIONS

# 2

## HORIZONTAL CONDUIT INSTALLATION

SECURE NICHE TO REINFORCING BARS USING WIRE TIES (4 PLACES)

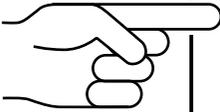


# 3

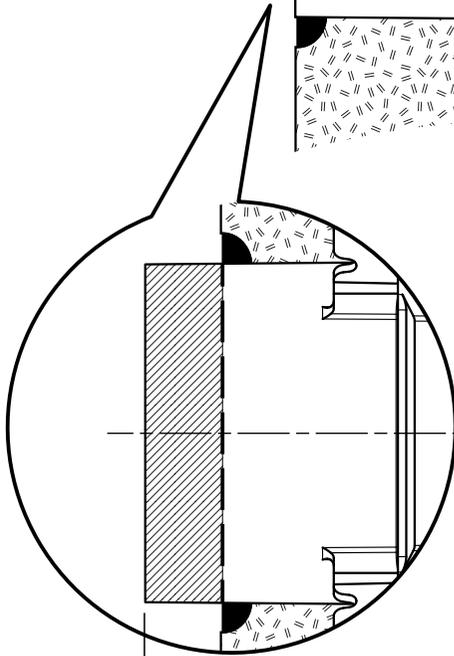
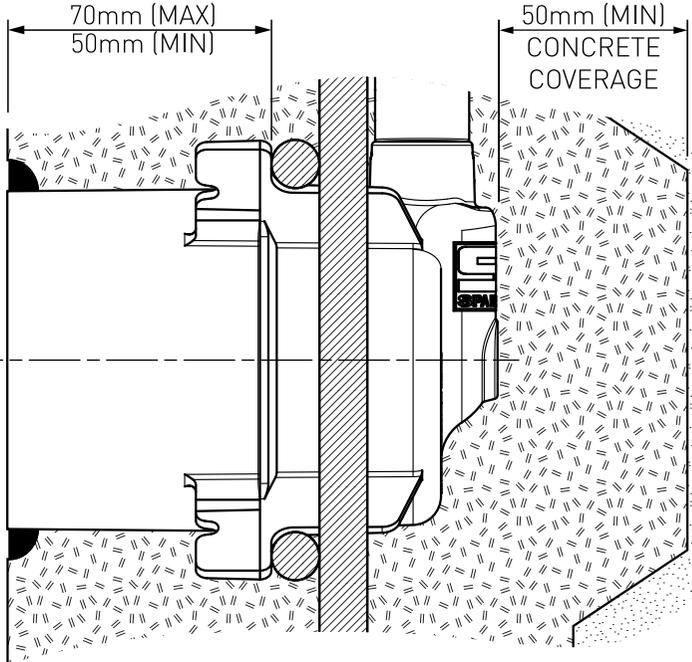
## NICHE + CONCRETE DETAILS



### NOTE



SCALLOP  
CONCRETE  
AROUND NICHE  
PERIMETER  
AND FILL WITH  
SEALANT



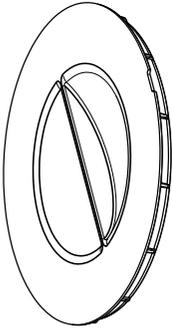
20mm  
(MAX)

### **NICHE PROTRUDING?**

NICHE CAN BE TRIMMED A  
MAXIMUM OF 20mm IF IT  
PROTRUDES FORWARD OF  
FINISHED CONCRETE SURFACE

# 4

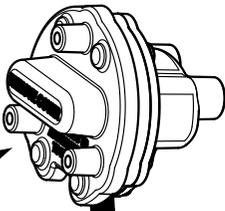
## INSTALL CABLE & PLUG INTO NICHE



**1** REMOVE NICHE PROTECTIVE CAP

CABLE + PLUG ASSEMBLY

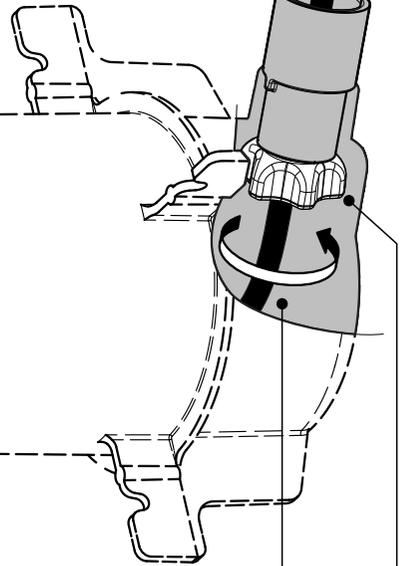
NICHE (INSTALLED IN WALL)



NOTE: DO NOT REMOVE RED DUST COVER FROM PLUG (SEE STEP 10)

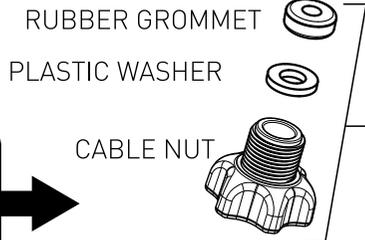
2 METRES (MAX)  
700mm (MIN)

**2**  
DRAW CABLE THROUGH CONDUIT



TIGHTEN CABLE NUT BY HAND ONLY

**3**



### IMPORTANT NOTE

→ ENSURE CABLE GROMMET IS ASSEMBLED AS SHOWN.



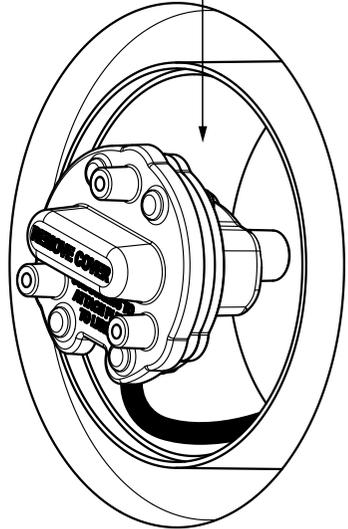
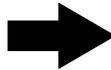
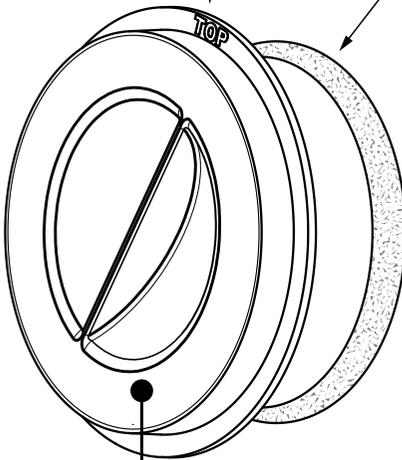
# 5

## INSTALL MOUNTING RING INTO NICHE

**NOTE**  
ENSURE "TOP" IS POSITIONED CORRECTLY

**2** APPLY PVC SOLVENT CEMENT TO MOUNTING RING

**1** COIL PLUG & CABLE INSIDE NICHE



**3** FIRMLY PUSH MOUNTING RING INTO NICHE

**NOTE**  
ENSURE PROTECTIVE CAP REMAINS IN MOUNTING RING (UNTIL STEP 8)

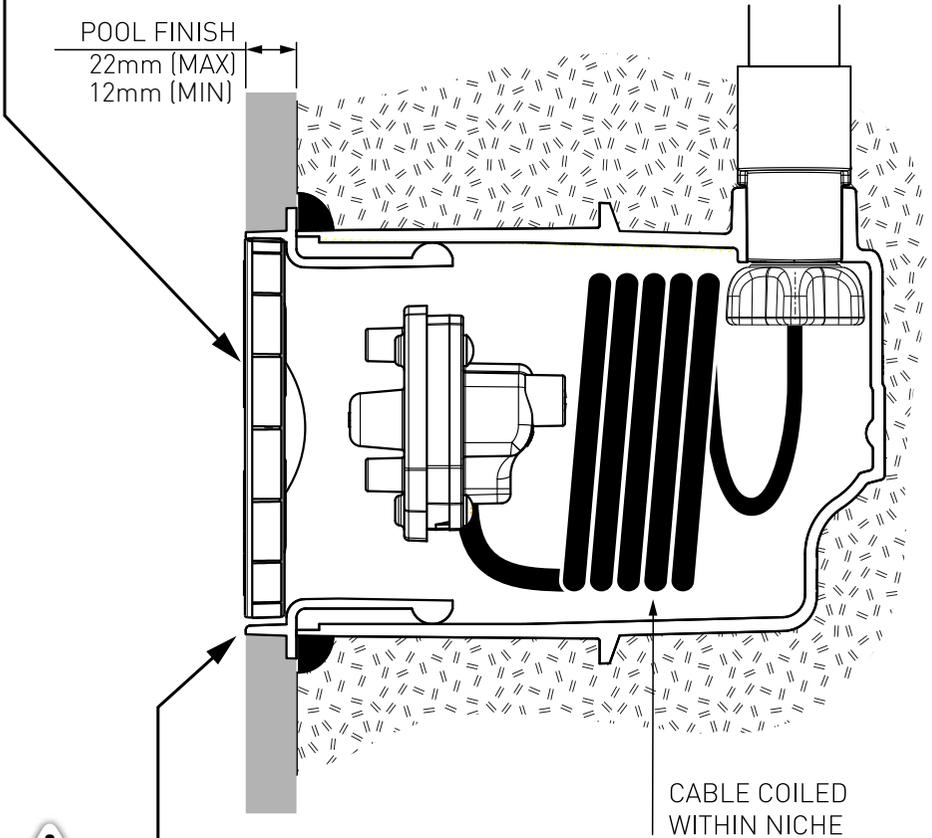
# 6

## APPLY POOL FINISH



### NOTE

PROTECTIVE CAP MUST REMAIN IN MOUNTING RING DURING RENDERING / TILING

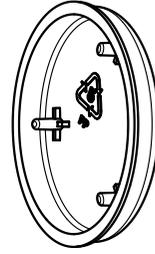
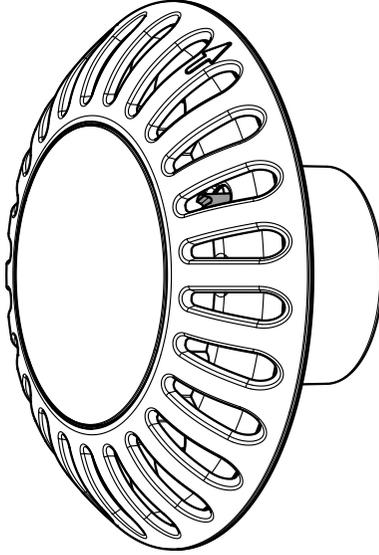


### NOTE

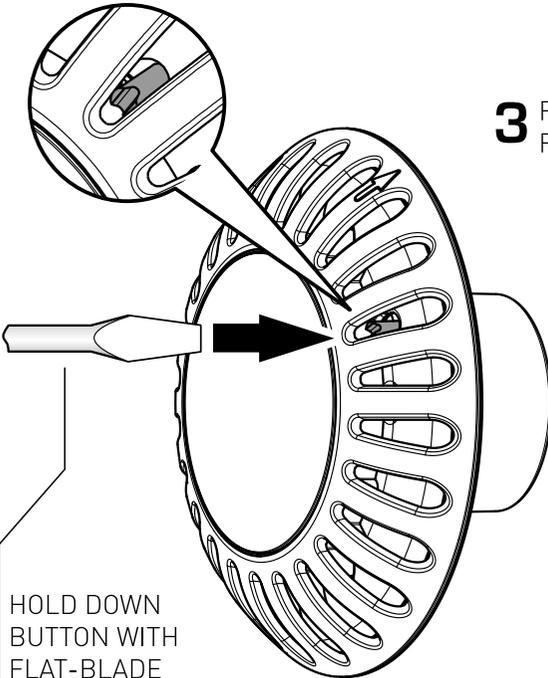
DO NOT TRIM FRONT EDGE OF MOUNTING RING

# 7

## REMOVE LOCKING RING



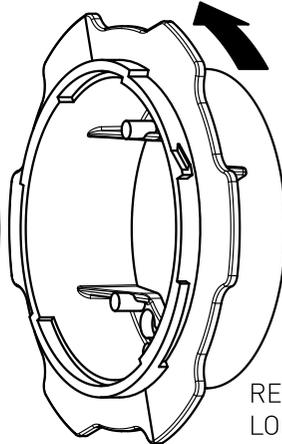
**1** REMOVE DUST CAP



**2**

HOLD DOWN  
BUTTON WITH  
FLAT-BLADE

**3** ROTATE ANTI-CLOCKWISE &  
RELEASE LOCKING RING



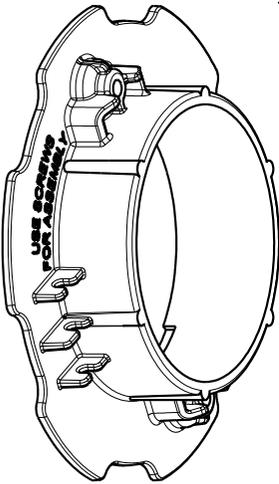
**4**

REMOVE  
LOCKING  
RING

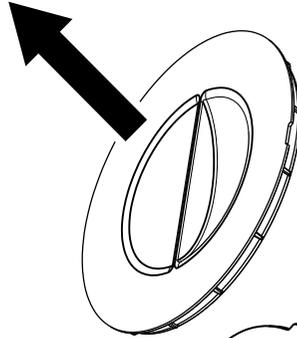
# 8

## ASSEMBLE LOCKING RING TO MOUNTING RING

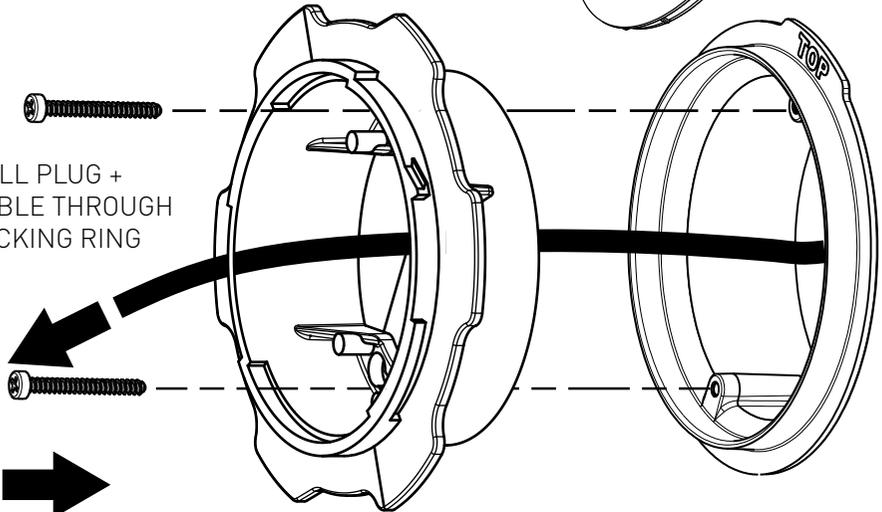
1 REMOVE MOUNTING SCREWS FROM REAR OF LOCKING RING



2 REMOVE PROTECTIVE CAP FROM MOUNTING RING



3 PULL PLUG + CABLE THROUGH LOCKING RING



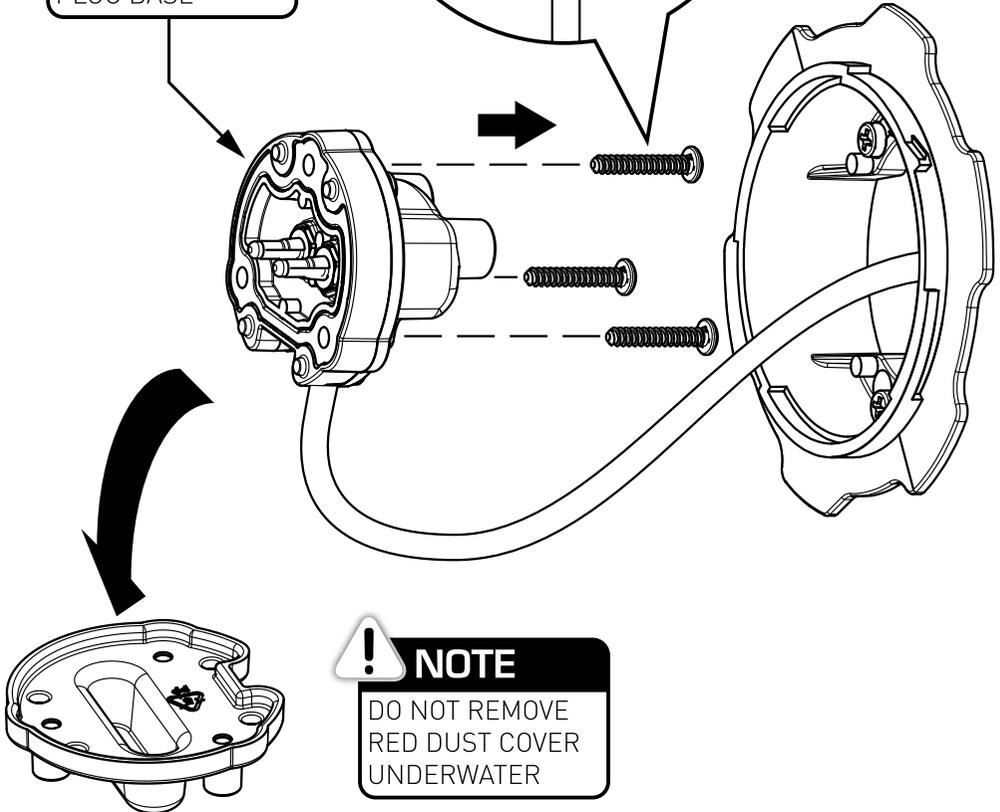
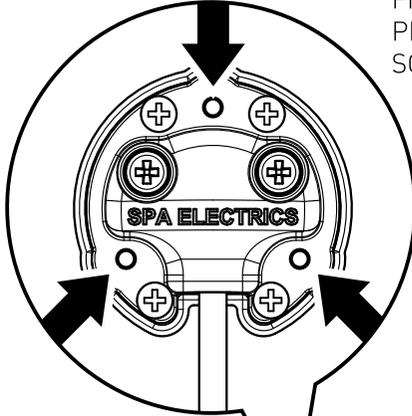
4 ASSEMBLE LOCKING RING WITH MOUNTING RING USING MOUNTING SCREWS PROVIDED

# 9

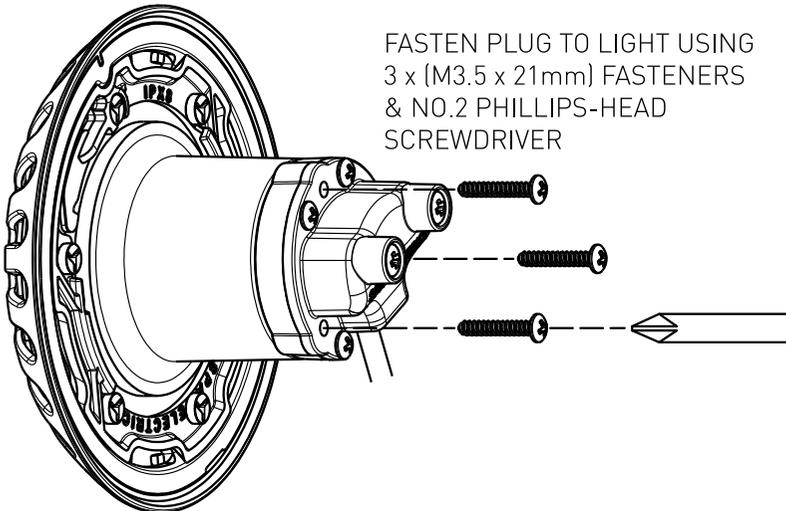
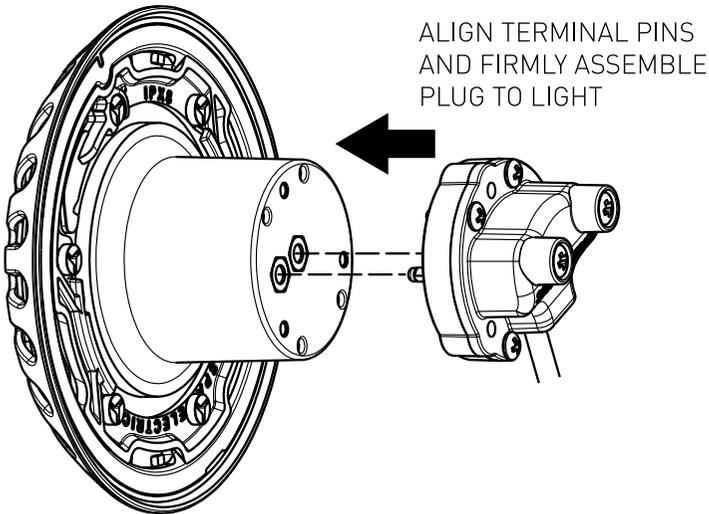
## REMOVE PLUG DUST COVER

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

**!** **NOTE**  
ENSURE SEAL IS SEATED FLAT IN PLUG BASE



**!** **NOTE**  
DO NOT REMOVE RED DUST COVER UNDERWATER

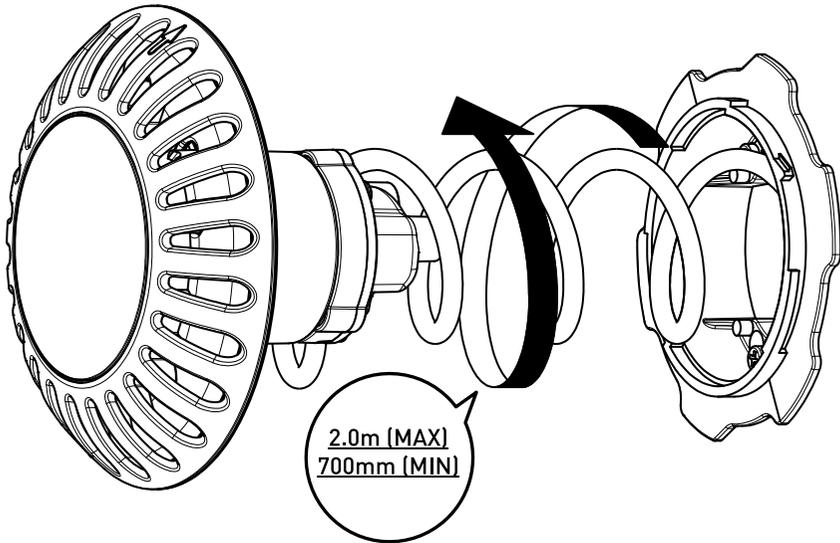


## IMPORTANT NOTES

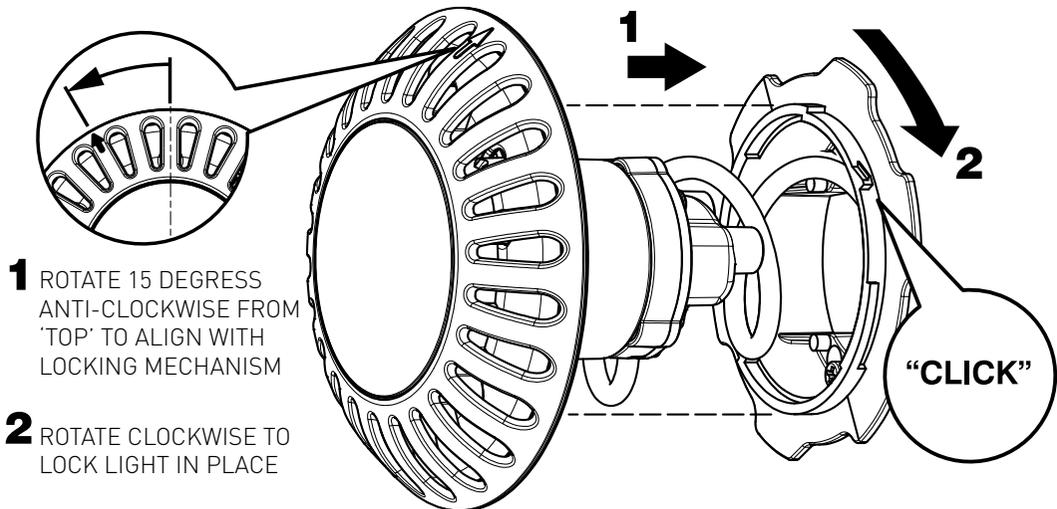
- DO NOT OVERTIGHTEN SCREWS
- DO NOT USE POWER-TOOLS
- DO NOT ADD SEALANTS OR GREASES
- ENSURE ALL SURFACES ARE CLEAN AND DRY
- **DO NOT ASSEMBLE UNDERWATER**

# EM-LIGHT ASSEMBLY

## 1 COIL CABLE INSIDE NICHE

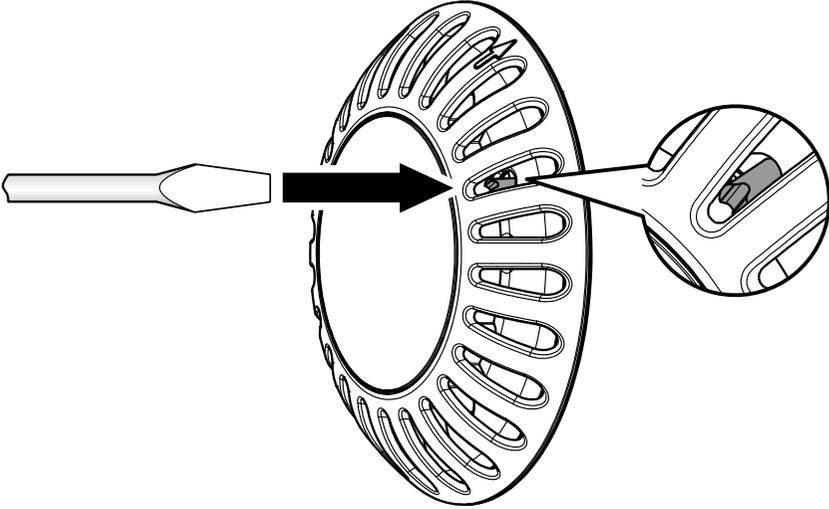


## 2 INSERT LIGHT INTO LOCKING RING

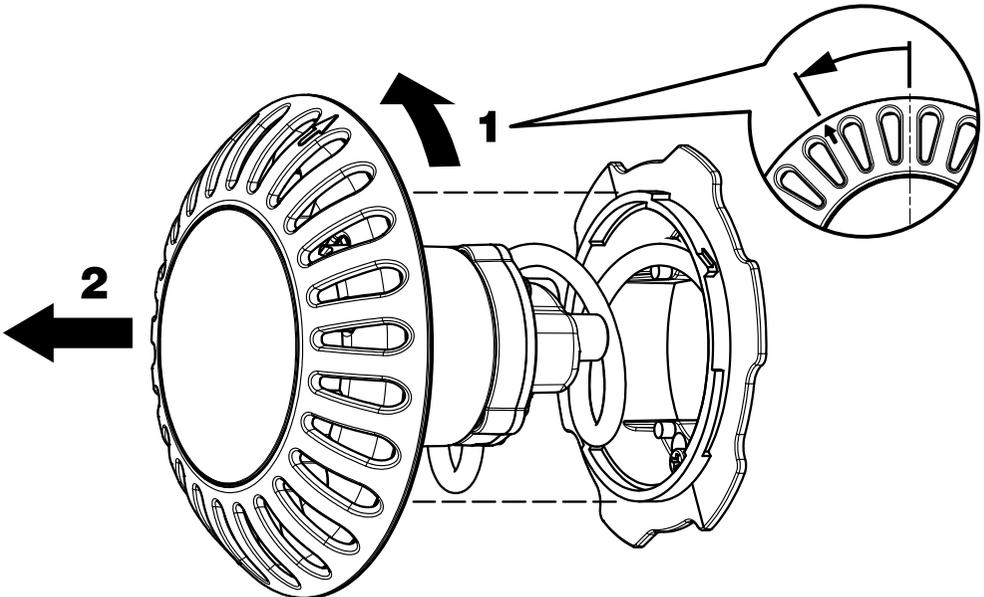


# EM-LIGHT REMOVAL

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

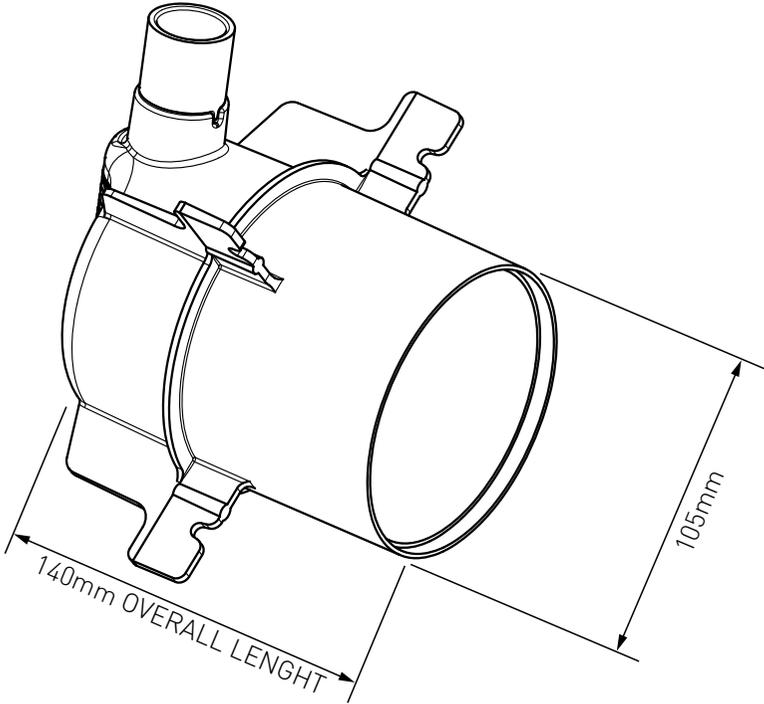


- 2** ROTATE ANTI-CLOCKWISE & RELEASE FROM LOCKING RING

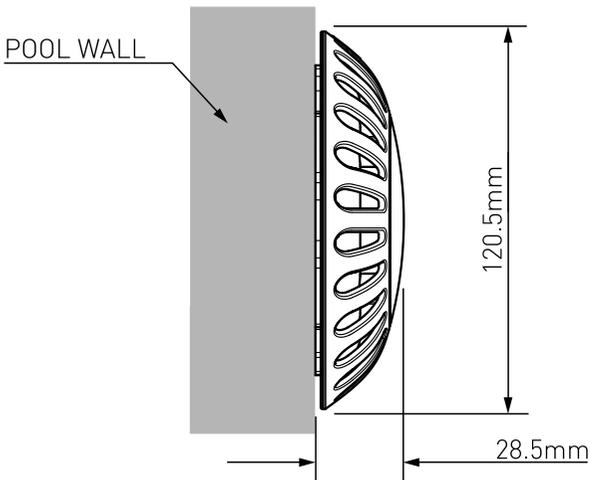


# KEY DIMENSIONS

## A NICHE



## B INSTALLED LIGHT









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