



Installation and Operating Procedures

# New Install

**CONCRETE, LINER, ABOVE GROUND & FIBERGLASS POOLS**



The electrical for this underwater light fixture is to be installed by a licensed electrician or a qualified pool service person in accordance with all local codes and regulations. The 12V transformer must always be installed between the power source and the light fixture.

Prior to any service of pool equipment or lighting, always disconnect power at the circuit breaker, (located above ground or at the panel). Failure to do so could result in death or serious injury.

## **ATTENTION**

**Amoray fixtures accept only 12V power and uses multiple LEDs.**

\* Read Carefully and Save These Instructions for Future Reference



## WARNING

Never operate the **Amoray Underwater LED Light** for more than 3 minutes unless it is totally submerged in water. Operating light out of water has potential risk of serious injury or damage to light and property.



**FOR USE WITH APPROVED 12V TRANSFORMERS**

## REMOTE CONTROL INSTRUCTION

### SELECTING COLOR SHOWS & SYNCING MULTIPLE LIGHTS

Note: Extend antenna for greater range (up to 150 ft). Lower antenna for shorter range or to control one light without changing nearby lights. Using the ON button on the remote will automatically start at the last used color show.

To SYNC multiple lights - turn ON - OFF & then recycle the ON button.

#### **Activation**

- |   |     |
|---|-----|
| 1 | ON  |
| 2 | OFF |

#### **7 Individual Colors**

- |   |                           |
|---|---------------------------|
| 3 | Blue                      |
| 4 | Red (sea turtle friendly) |
| 5 | Green                     |
| 6 | Purple                    |
| 7 | Aqua                      |
| 8 | Yellow                    |
| 9 | White                     |



#### **6 Different Color Cycles**

- |    |   |
|----|---|
| 10 | Cycle red-yellow-green                        |
| 11 | Cycle green-aqua-blue                         |
| 12 | Cycle red-purple-blue                         |
| 13 | Cycle red-green-blue                          |
| 14 | Cycle green-purple-blue-red-white-aqua-yellow |
| 15 | Gradual change of all colors                  |



# AMORAY

## UNDERWATER LEDS

8" 13 COLOR SHOWS

12" ORIGINAL  
13 COLOR SHOWS

COMMERCIAL  
WHITE LIGHT

### EASY INSTALLATION

Flat back design and flush wall mounting bracket make installation **faster and easier**. Ideal for **new installations and retrofits**.

Flush mount light with no large niche cavity required. Custom brackets for any existing niche available. **Concrete, Gunite, Vinyl, & Fiberglass** Installs.

### MOUNTING OPTIONS



### APPLICATIONS

- Chlorinated and Saltwater Swimming Pools
- Freshwater and Saltwater Water Features
- Under Dock Lighting in Freshwater and Saltwater
- Underwater Safety Lighting for Marinas
- Shore Lighting in Freshwater and Saltwater
- Large Freshwater and Marine Aquariums
- Underwater Caves and Grottos
- Large Ponds, Lagoons, Streams or Lakes
- Underwater Accent Lighting
- Boats



### SPECIFICATIONS

Input: Safe Low Power 12V AC  
Output: 54 watts, 18x3 w LED  
Power Cord: 30', 50', 100'  
(custom lengths available)

### ENERGY SAVINGS

Long lasting LED lights, **ultra low power** and durable construction means **low maintenance** and **big savings**. The **Amoray Light** pays for itself with energy cost savings within a season.

### MULTI-COLORED WITH REMOTE

With **13 color combinations** and color transitions, setting the mood with your underwater lighting has never been easier. **Ultra bright** lumens with large dispersion area and easy to use **remote control** convenience.

### SAFE LOW VOLTAGE (12V) POWER

Bright pool lighting makes your pool safer after dark. Parents can see clearly making the pool experience more enjoyable for everyone.

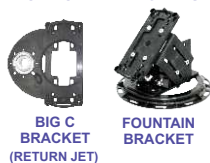
### SALT WATER APPROVED

**Durable** and **Corrosion Free**, **Amoray Underwater 12V LED Lights** make the best choice for both **chlorine** and **salt water pools**. The ideal choice for **ponds** and **water features**.

Custom Bezels: Ask About  
Matching Your Pool Liner,  
Tile or Fiberglass



OPTIONAL BRACKETS



### RETROFIT ANY NICHE

Expandable Wedge Bracket



LARGE NICHE



SMALL NICHE



MEDIUM NICHE



UNIVERSAL MOUNTING PLATE  
(32 INSTALL OPTIONS)

PATENTED BRACKETS  
RETROFIT EXISTING NICHEs



# AMORY NEW INSTALLATION KIT PARTS LIST



## Amoray Underwater Light



8" & 12"  
Color Change  
Commercial Units  
Available



R15



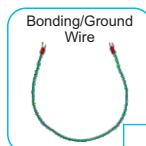
BATT



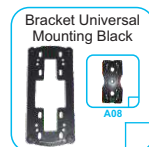
CASE



TRANS60



W



A12



E



K1



M1



B



S

## BIG C BRACKET-12



99-12



C1-12-THICK



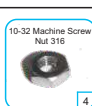
A12



K4



L2



L1



K5



J



J3

OR



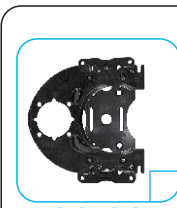
C3



J4

OR

## BIG C BRACKET-08



99-08



C2-08-THIN



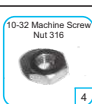
A08



K4



L2



L1



K5



J



J3

OR



C3



J4

T

Fitting TEE 1\"/>



TEE

Fitting RED 1\"/>



RED

Waterproof Fitting



J8



# BIG C BRACKET

MOUNTS TO ANY JET, RETURN FITTING  
OR 1" ABS JET OR SUCTION



AVAILABLE IN OUR  
NEW INSTALL KIT



[99-12]



[99-08]



One screw  
to secure

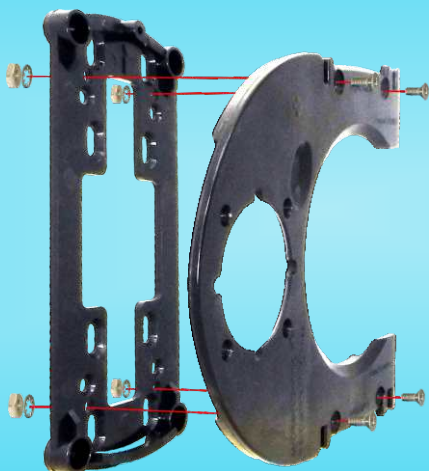
Patented  
BIG C Bracket  
works with all  
jet and return fittings

Amoray Underwater Light  
slides onto bracket

The **BIG C BRACKET** allows the Amoray Light  
to easily fit on any existing jet or return fitting  
**FAST AND HASSLE FREE**

## BIG C BRACKET-12

For Pool Light Install (Exploded View)



## BIG C BRACKET-08

For 8" light install





**IDEAL FOR - POOLS - WATER FEATURES - FOUNTAINS - PONDS  
STREAMS - LAKES - DOCKS - BOATS - UNDERWATER ACCENT LIGHTING**

### BENEFITS

- 1) Easy installation for both new and existing pools.  
Save Up To 80% on labor costs and electricity
- 2) Child Safe 12v power means no risk of electric shock
- 3) Turtle Safe Red LED's (for applications near ocean sand)
- 4) Installer Invented, Designed and Assembled in Canada - USA
- 5) Remote control syncs multiples lights and runs 13 light shows
- 6) Multiple Light Styles Available - **Original 12" 13 Color Shows, Commercial or 8" Color Shows**
- 7) Best choice for both Chlorine and Salt water applications.  
Durable and Corrosion Free.
- 8) Backed by industry leading experts. **3 YEAR WARRANTY**  
direct from manufacturer. *(with option to extend to 5 years)*
- 9) Brightest light on the market, uses large LED lights for energy efficiency with 50,000 hours of use and 60° flood dispersion
- 10) **Nicheless, Flatback** design
- 11) Retrofits all existing niches

# New Installation Instructions

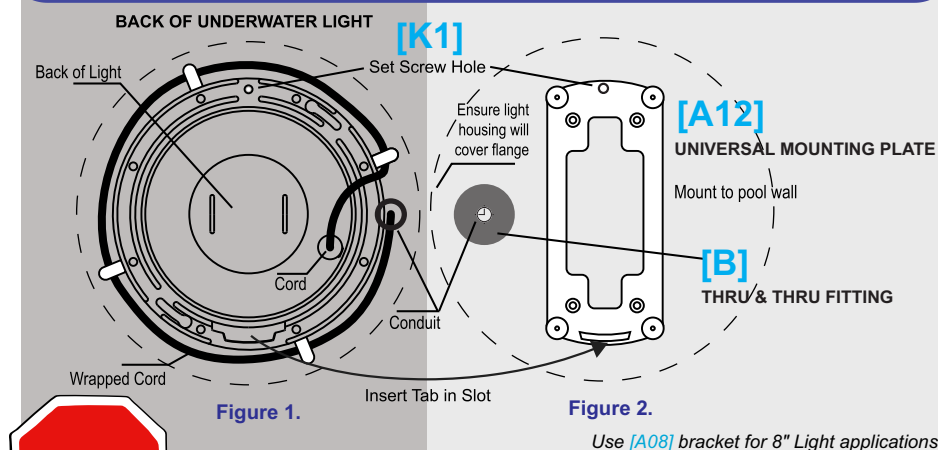


**Installing on a Pool  
without a light**

## INSTALLATION SUMMARY

1. After pool surface is finished, install **[B]** Thru & Thru Fitting. Install the conduit and pull electrical cord to junction box or power source for connection to 12V transformer. (**Figure 2.**)
2. Connect all wires to the corresponding circuit wires of the low voltage transformer at the junction box. Leave communication wire exposed. Secure the junction box cover in place.
3. Wrap a length of the cord up to a maximum of 2.4m (8 ft.) long on the back of the light assembly. This extra cord allows for light to be brought up out of the pool for servicing.
4. Mount **[A12]** Universal Mounting Plate (**Figure 2.**). Place light tab into slot on **[A12]** bracket. Tip light towards wall. Insert **[K1]** set screw through hole to secure light. (**Figure 6. Page 10**) NOTE: Light must be in vertical position (set screw hole at top) to slip tab into slot.
5. Before operating the light for more than 3 minutes, ensure the Light is completely submerged. To check for proper light operation, turn on the main switch at the circuit breaker and use the ON/OFF buttons (1&2) on the remote to turn light ON or OFF.

Use **[A08]** bracket for 8" Light applications



Have Questions?  
ASK for Tech Support to  
make your install fast and easy

**1-800-970-2827**



# CONCRETE POOLS

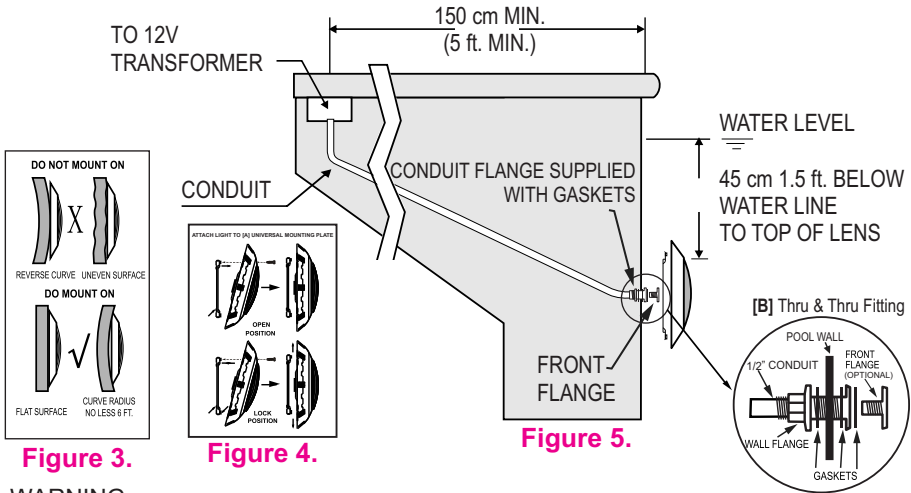


Figure 3.

Figure 4.

Figure 5.

Figure 5a.

## WARNING:

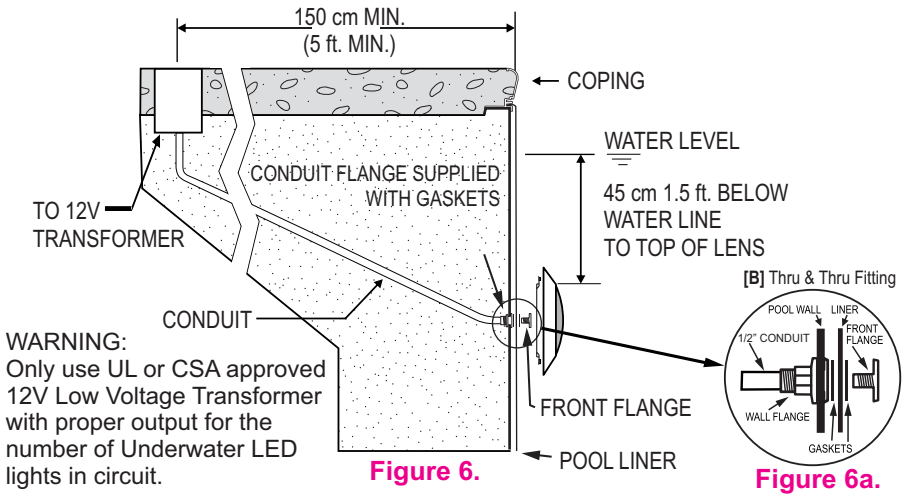
Only use UL or CSA approved 12V Low Voltage Transformer with proper output for the number of Underwater LED lights in circuit.

**Electrical preparation must be performed by a certified electrician PRIOR TO BACKFILLING BEHIND POOL PANELS. Ensure that the pool's electrical system and wiring conforms to local electrical codes. Pretest electrical system before installation.**

1. To fasten directly to pool wall, locate the position on the wall where the Amoray Light is to be installed. Top of lens must be minimum of 45cm (1.5ft) below the surface. **ONLY** mount on a flat surface or inside curve with radius not less than 1.8m (6ft) (Figure 3.) **NOTE** the location of the cord on the back of the unit. (Figure 1. on Page 8)
2. Fasten the [A12] Universal Mounting Plate to the pool wall using [K1] Stainless Screws or [K2] Self Tapping Screws.
3. Install [B] Thru & Thru Fitting. Install the conduit and pull electrical cord to junction box or power source for connection to 12V transformer. Ensure light housing covers conduit coming out of [B]. (Figure 2. on Page 8 for suggested placement)
4. Place light tab into slot on [A12] bracket. Tip light towards wall. Insert [K1] Stainless Screw to set screw hole to secure light. (Figure 4.)

Use [A08] bracket for 8" Light applications

## LINER POOLS

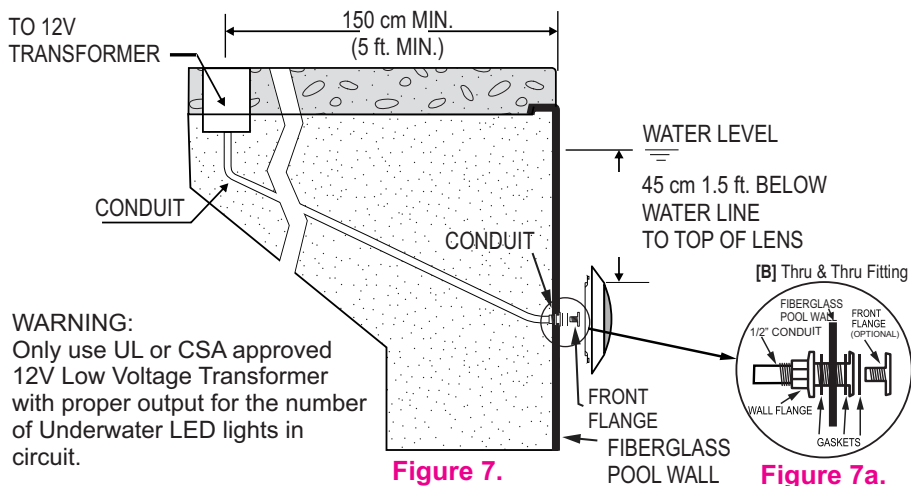


**Electrical preparation must be performed by a certified electrician PRIOR TO BACKFILLING BEHIND POOL PANELS. Ensure that the pool's electrical system and wiring conforms to local electrical codes. Pretest electrical system before installation.**

1. After pool liner is in place, locate the position on the wall where the Amoray Underwater LED Light is to be installed. (Top of lens must be minimum of 45cm (1.5ft) below the surface. **ONLY** mount on a flat surface or inside curve with radius not less than 1.8m (6ft) (**Figure 4. on Page 7**) **NOTE** the location of the cord on the back of the unit. (**Figure 1. on Page 8**)
2. Fasten the **[A12]** Universal Mounting Plate to the pool wall using **[K1]** Stainless Screws.
3. Install **[B]** Thru & Thru gasket and threaded front flange by cutting a small "X" in the liner. Push front flange with gasket through liner and thread into wall flange. (**Figure 6a.**) Ensure light housing covers conduit coming out of **[B]**. (**Figure 2. on Page 8** for placement)
4. Install the conduit and pull electrical cord to junction box or power source for connection to 12V transformer.
5. Place light tab into slot on **[A12]** bracket. Tip light towards wall. Insert **[K1]** Stainless Screw to set screw hole to secure light.

Use **[A08]** bracket for 8" Light applications

## FIBERGLASS POOLS



**Electrical preparation must be performed by a certified electrician PRIOR TO BACKFILLING BEHIND POOL PANELS. Ensure that the pool's electrical system and wiring conforms to local electrical codes. Pretest electrical system before installation.**

1. Locate the position on the fiberglass wall where the Amoray Light is to be installed. (Top of lens must be minimum of 45cm (1.5ft) below the surface. ONLY mount on a flat surface or inside curve with radius not less than 1.8m (6ft) (**Figure 4. on Page 7**) NOTE the location of the cord on the back of the unit. (**Figure 1. on Page 8**)
2. Attach conduit to [B] Thru & Thru Fitting or [S] Flange Fitting depending on the size of conduit. (**Figure 6a. on Page 10**)
3. Trim the conduit and pull electrical cord to junction box or power source for connection to 12V transformer.
4. Fasten the [A12] Universal Mounting Plate to the pool wall using [K1] Stainless Screws. Ensure light housing covers [B] Thru & Thru Fitting. (**Figure 2. on Page 8** for suggested placement)
5. Place light tab into slot on [A12] bracket. Tip light towards wall. Insert [K1] Stainless Screw to set screw hole to secure light. (**Figure 4. on Page 9**)

Use [A08] bracket for 8" Light applications

# AmoRAY

UNDERWATER LEDS

**NEW**

## New Nicheless Installation



## Retrofit Any Existing Niche



## Accessories



## BIG C



## RETURN JET BRACKET

### BIG C RETURN JET BRACKET

**AmoRAYlighting**

Introducing

### BIG C Bracket

No drilling or cutting required. Our innovative mounting ring makes installation **FAST** and **EASY**! The **BIG C** bracket allows you to mount the **Amoray Underwater 12V LED** light to any return jet and still allow water flow.

Call our techline **1-800-970-2827** for more information.

Designed & Assembled in Canada / us  
Conçu et assemblé au Canada / us  
Diseñado y montado en Canadá / us



Patent 4285443

**AmoRAYlighting.com**

**1-800-970-2827**



# Big C Installation Instructions



**Installing on  
Jet Return Fitting**

## BIG C BRACKET

Installation Instructions for [99-12] & [99-08] below

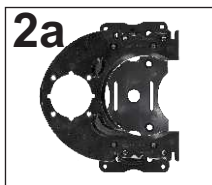
Locate Return Jet Fitting

**1a)** Remove eyeball fitting and face plate

**1b)** Jet fitting housing for Big C

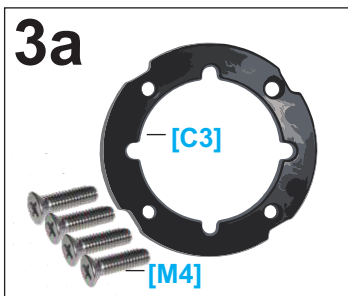


Place Big C Bracket on Return Jet Fitting



[99-08] C2-08-THIN (2a) for 8" light show  
OR  
[99-12] C1-12-THICK (2b) for original 12" light show

**OPTION 1:** Use Spacer-Ring [C3] and provided stainless mounting bolts [M4]. Secure Big C bracket to return jet.

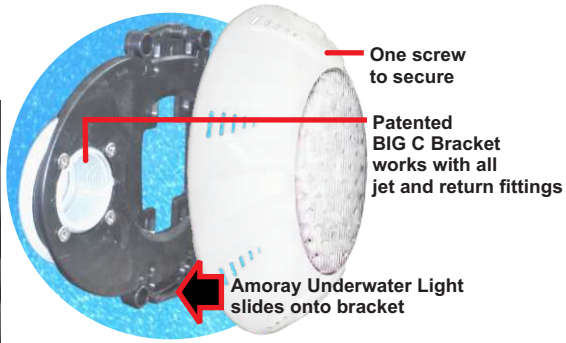
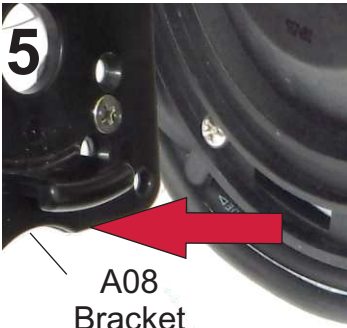


**OPTION 2:** Use threaded ring [J] and gasket [J3] to secure Big C bracket to return jet.



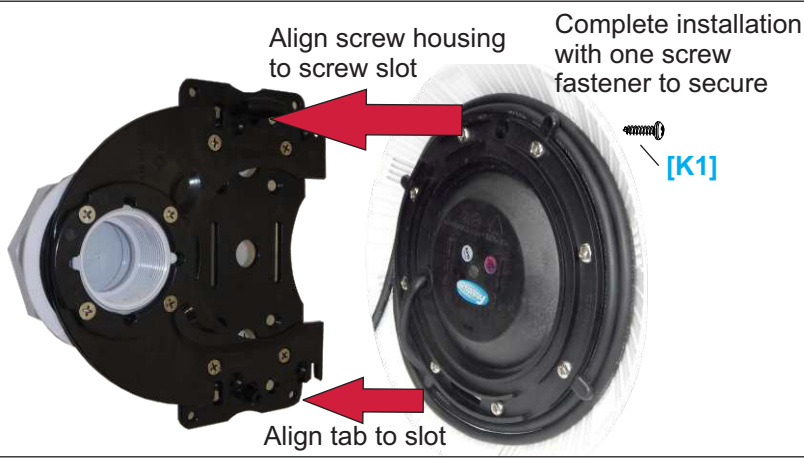
Steps 4a and 4b are identical for [99-12] C1-12-THICK versions

Mount 8" light by inserting tab on A08 bracket into the slot on bottom ring of the light housing



(Above) Example of original light mounting onto C1-12-Thick

6



7

Power cable comes out of 1½" Slip Connector and Waterproof Fitting

Connect power to 12 v transformer

Fish power cord through jet return

