

Installation and Operating Procedures

Retrofit



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 STOP

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

ON

OFF

7 Individual Colors

Blue

Red (sea turtle friendly)

Green

Purple

Aqua Yellow

White

6 Different Color Cycles

Cycle red-yellow-green 10

Cycle green-aqua-blue

Cycle red-purple-blue

Cycle red-green-blue

Cycle green-purple-blue-red-white-aqua-yellow

Gradual change of all colors



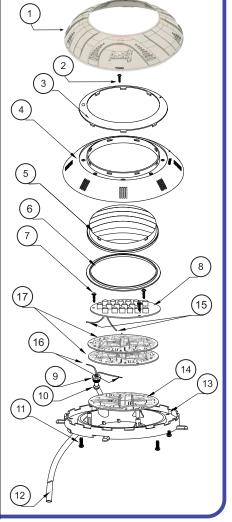


AMORAY SPECIFICATIONS

Amoray Light	Power	Size	LEDТуре	Brightness Lumins	Input	Cord Length Options
12" Original	54W	11 3/4 x 2	18pcs 3W, RGB	4200-5400	12VAC	30', 50', 100'
Commercial	54W	11 3/4 x 2	18pcs 3W, White	4700-5400	12VAC	55
8"	36W	83/4x2	12 pcs 3W, RGB	3200-4200	12VAC	30, 50

REPLACEMENT PARTS

No.	QTY	DESCRIPTION	
1	Opt.	Colored Body Clip	
2	1	Screw	
3	1	Sealing Ring	
4	1	Bezel Cover	
5	1	Lens	
6	1	Lens Seal	
7	3	Screws	
8	1	Bulb Plate	
9	1	Dent Head	
10	1	Sealing O'ring	
11	8	Screw & Nut	
12	1	Cord	
13	1	Body	
14	1	Communications Board	
15	2	Terminals Insulation Joints	
16	2	Terminals Insulation Joints	
17	2	Circuit Board	





AMORAY RETROFIT KIT PARTS LIST





Transformer 60W







8" & 12" **Color Change** Commercial Units Available

TRANS60

R15

BATT

CASE











A12

G











K1

K7

K8

M

W

Wedge Bracket 98-12













D

K3

K₆

Bracket Universal Mounting Black









P1

RETROFIT BRACKET **COMBINATIONS**

K81x4 [A12] [M]

Works with All Pool Types Concrete, Gunite, Vinyl Liner, Above Ground & Fibreglass Pools

Patented Bracket retrofits Small Niche Lights



EASY RETROFIT:

Aqualumin Pentair

[A12] or [A12]+[F]+[M]

See Page 11 for detailed Installation

Patented Bracket retrofits Medium Niche Lights



EASY RETROFIT: Swimquip

- Aqualamp
- Jacuzzi Q500
- Jandy
- Hayward
- Pentair
- plus many more...

[A12]+[G]+[M]

See Page 10 for detailed Installation

Patented Bracket retrofits

Large Niche Lights



[K1]



Expandable Wedge Bracket



(fits 3" to 15" Niches)



[K7]x8



[K3]x10

[M]



[M]

[A12]+[H]+[M] See Page 9 for

detailed Installation

EASY RETROFIT: American Products

- Amerlite
- PacFab
- Purex
- Hayward
- Pentair
- plus many more..



See Page 12 for detailed Installation Visit our website Ampraylighting.com for updated brackets and latest innovations







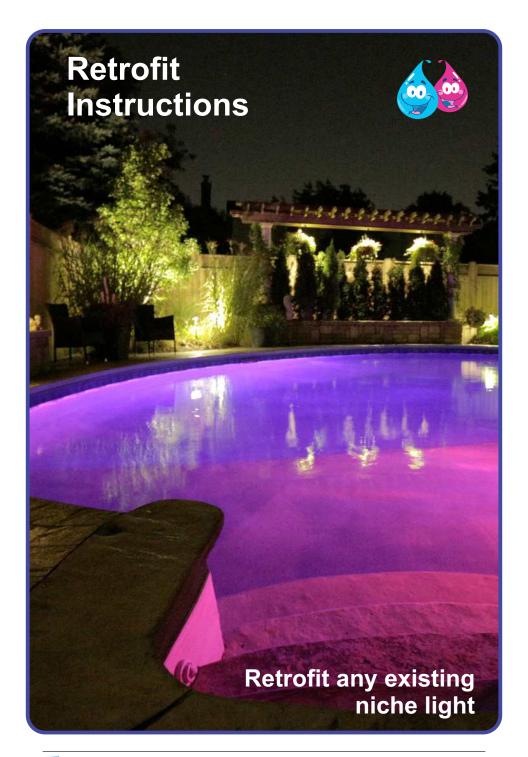
IDEAL FOR - POOLS - WATER FEATURES - FOUNTAINS - PONDS STREAMS - LAKES - DOCKS - BOATS - UNDERWATER ACCENT LIGHTING

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 runs13 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.

 <u>Durable</u> and <u>Corrosion Free</u>.
- 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











RETROFIT SMALL NICHE

SMALL AQUALUMIN NICHE INSTALLATION FOR ALL POOLS

- 1. For small niche installations, remove existing light then attach the [A12] Universal Mounting Plate to the niche.
- 2. Optionally, the [F] Spacer Bracket can be used in conjunction with [A12] Universal Mounting Plate to provide a more precise fit. [F] Spacer Bracket can be installed between niche and [A12] Universal Mounting Plate (Figure 1.) [M] Rubber Washers can be used to adjust camber of light.
- 3. Wrap a length of the cord to a maximum of 2.4m (8ft) long on the back of the light assembly. This extra cord allows for the light to be brought up out of the pool for servicing.
- 4. Pull wire through the center of the niche inside the existing conduit. Connect blue and red wires to the low voltage transformer at the junction box. Leave communication wire (yellow-green stripe) exposed.
- 5. To mount the light on the [A12] bracket, use your fingers to pull out bottom of [A12] bracket 1" forward, then slide the tab near the inside bottom of light into slot in bottom of the [A12] Universal Mounting Plate. (Figure 4. Page11)

(Light must be in vertical position (set screw hole at top) to slip tab into slot.)

6. 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.

(Cycle ON OFF Buttons to Sync Multiple Lights)

Use [A08] bracket for 8" Light applications

SMALL NICHE INSTALLATION WITH [F]&[A12] BRACKET



Conduit for wire from light

[F] Optional Spacer Bracket can be installed under the [A12] Universal Mounting Plate for precise fit.

[M] Rubber Washers can be used to adjust camber of light.

[A12] Universal Mounting Plate

Use [A08] bracket for 8" Light applications



- Pentair

RETROFIT MEDIUM NICHE

MEDIUM NICHE INSTALLATION FOR ALL POOLS

- 1. For medium niche (6") installation, remove existing light and ring. Fasten [G] Medium Retrofit Bracket to the existing niche using 4 x [K7] screws on either side of [G] bracket only.
- 2. Fasten the [A12] Universal Mounting Plate to the [G] Medium Retrofit Bracket with the remaining 4 x [K7] screws. (Figure 2) for example of final configuration. [M] Rubber Washers can be used to adjust camber of light.
- 3. Wrap a length of the cord to a maximum of 2.4m (8ft) long on the back of the light assembly. This extra cord allows for the light to be brought up out of the pool for servicing.
- 4. Pull wire to the outside-right of [A12] Mounting Plate and through the existing conduit. Connect blue and red wires to the low voltage transformer at the junction box. Leave communication wire (yellowgreen stripe) exposed.
- 5. Slide the tab near the inside bottom of light into slot in bottom of the [A12] Universal Mounting Plate. (Figure 4. Page 11) (Light must be in vertical position (set screw hole at top) to slip tab into slot.)
- 6. 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.

MEDIUM NICHE INSTALLATION

(Cycle the ON OFF buttons to Sync multiple lights.)

Use [A08] bracket for 8" Light applications



[A12] Universal Mounting Plate

EASY RETROFIT:

- Jacuzzi Q500
- plus many more...

Use [A08] bracket for 8" Light applications

Figure 2.

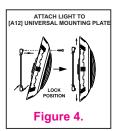
RETROFIT LARGE NICHE

ARGE NICHE INSTALLATION FOR ALL POOLS

- 1. For large niche (12") installation, remove all but the 12 o'clock (top) screw from beauty ring. (Loosen the 12 o'clock (top) screw slightly so the beauty ring can swivel.) Remove existing light leaving niche in place.
- 2.Install [H] Black Mounting Ring into the recessed groove in existing niche. (The [H] Black Mounting Ring can be installed either concave or convex depending on desired offset from pool wall.) Swivel beauty ring back into place, align holes and resecure. (If installing [H] Ring in concave position, holes must be predrilled into [H] Ring.)
- 3. Fasten the [A12] Universal Mounting Plate to the [H] Black Mounting Ring using [K1] screws. (Figure 3.)
- 4.Pull wire to the outside-right of [A12] Mounting Plate and through the existing conduit. (Figure 3.) Connect blue and red wires to the low voltage transformer at the junction box. Leave communication wire (yellow-green stripe) exposed.
- 5. Slide the tab near the inside bottom of light into slot in bottom of the [A12] Universal Mounting Plate. (Figure 4.) (Light must be in vertical position (set screw hole at top) to slip tab into slot.)
- 6. 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. (Cycle the ON OFF buttons to sync multiple lights.)

LARGE NICHE INSTALLATION WITH [H]&[A12]BRACKET





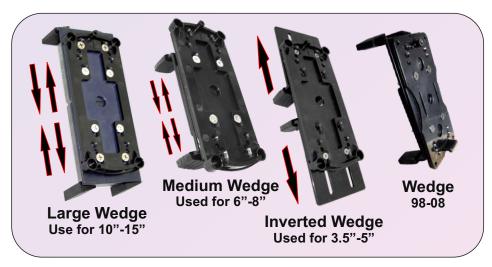
EASY RETROFIT:

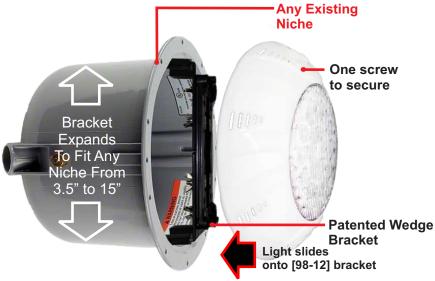
- American Products
- Amerlite - PacFab
- Purex
- Hayward
- Pentair
- plus many more...



PATENTED WEDGE BRACKET

UNIVERSAL WEDGE BRACKET INSTALL FOR ALL OTHER NICHE RETROFITS





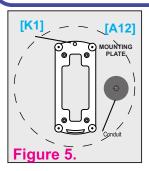
The Amoray Light fits easily on the **EXPANDABLE WEDGE BRACKET FAST AND HASSLE FREE RETROFIT**

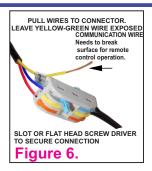


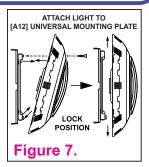
UNIVERSAL RETROFIT NICHE

UNIVERSAL NICHE INSTALLATION FOR ALL POOLS

- 1. To set [98-12] Expandable Wedge in place first loosen the wing nuts to allow easy adjustment. Expand [98-12] Wedge Bracket to width of niche and finger tighten wing nuts at the appropriate size.
- 3. Use Philips head screw driver to tighten the 4 bottom wing nuts.
- 4. Install [98-12] Wedge Bracket in niche. For fine adjustment, place flat (slot) screw driver in center hole of wedge bracket, between [D] sliders and rotate screwdriver up and to cause a tighter fit.
- To adjust [98-12] Wedge Bracket orientation, slide finger under bracket and secure the top set of wing nuts. Tighten remaining screws with Philips head screw driver, while holding wing nuts from behind.
- 6. Wrap a length of the cord to a maximum of 2.4m (8ft) long on the back of the light assembly. This extra cord allows for the light to be brought up out of the pool for servicing.
- 7. Pull wire to the outside-right of [A12] Mounting Plate and through the existing conduit.(Figure 5.) Connect blue and red wires to the low voltage transformer at the junction box. Leave communication wire (yellow-green stripe) exposed. (Figure 6.)
- 8. Slide the tab near the inside bottom of light into slot in bottom of the [A12] Universal Mounting Plate. (Figure 7.) (Light must be in vertical position (set screw hole at top) to slip tab into slot.)
- 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.









Amoray lighting

PATENTED BRACKETS

Wedge

Big C

Pond

Fountain Ocean



Large Wedge Use for 10"-15"

[98-12]



[99-12]



[100]

This universal bracket makes retrofitting any existing light with a niche simple. Three configurations of this bracket will allow it to retrofit any niche between 3.5"-15"

BIG C bracket allows **Amoray Underwater LED** Light to be installed on any jet or LED Light at any return fitting. No additional drilling or cutting is required.

The **POND** Bracket was designed to mount the Amorav angle. Suitable for Fountains and Ocean applications

Available for 8" and 12" Light





Inverted Wedge



Customized Click Fit Colored Bezels





Large Sealing Ring



BIG C BRACKET

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





[99-12]



AVAILABLE IN OUR NEW INSTALL KIT

One screw to secure

Patented BIG C Bracket works with all jet and return fittings

[99-08]

INCLUDED IN OUR RETROFIT KIT

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

EXPANDABLE WEDGE BRACKET

FIT ANY NICHE FROM 3.5" TO 15"



[98-12]



198-081

PATENTED ACCESSORIES







Amoray Patented Wedge Bracket

Light slides onto [98-12] bracket



The Amoray Light fits easily on the **EXPANDABLE WEDGE BRACKET FAST AND HASSLE FREE RETROFIT**















Colored Spacer Ring Gaskets available



98-12



98-08







99-12

98-08

