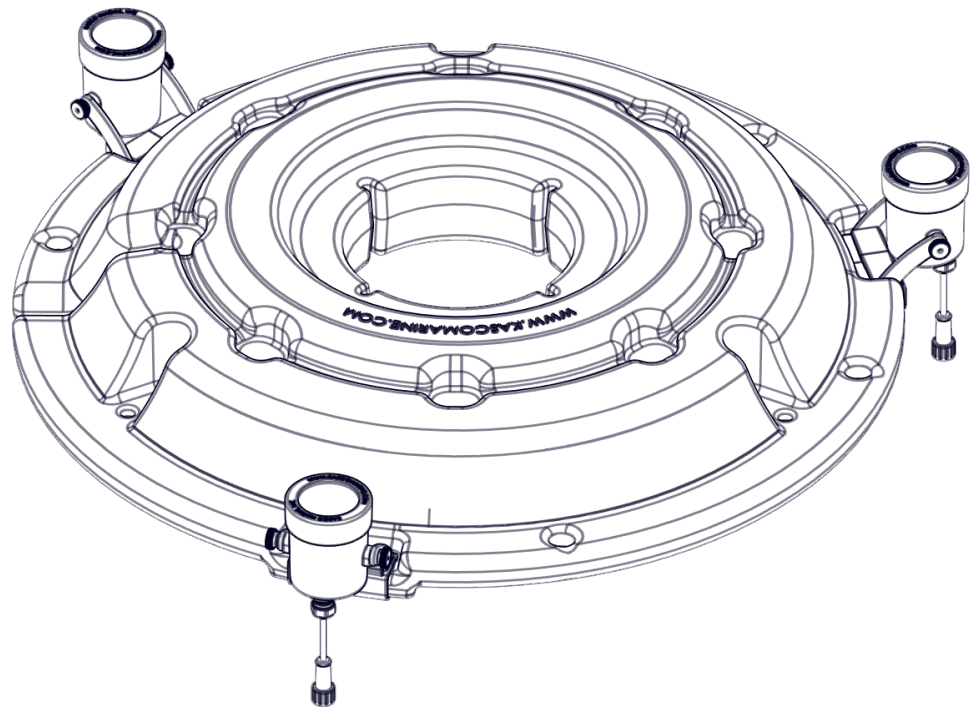




MOVING WATER FORWARD, SINCE 1968

50HZ LEDC11 Composite WaterGlow Lighting



Operation & Maintenance Manual

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QUESTIONS?



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SAFETY FIRST

WARNINGS:



Moving Machinery



Shock Hazard

- NEVER enter the water with the electrical equipment connected and/or in operation.
- All electrical equipment must be Ground fault/leakage current protected. Use of a Ground fault protective device (GFI, RCD, RCBB, or RCBO type device) is required as directed by local and national codes.
- Stay clear of all moving parts.
- NEVER run the unit out of water. This will damage the equipment and pose a danger to the operator.
- Use extreme caution around water, especially cold water.
- NEVER lift or drag the unit by the power cord. Always use the ropes or mount to remove it from the water.
- Do not use waders in deep water or in areas with drop-offs, drastic slopes, or soft bottom material.
- Do not use boats that tip easily for unit installation (such as canoes).
- Follow all boating safety rules and regulations, including wearing a Personal Flotation Device.
- The unit is supplied with an internal grounding conductor. To reduce the risk of electrical shock, be certain that the unit is plugged in/connected to a circuit with ground fault protection.
- Means for disconnection must be incorporated in the fixed wiring, in accordance with local and national wiring rules.
- Consult a qualified electrician for electrical installation.

UNIT SPECIFICATIONS

OVERVIEW

Model	Cord Length	Voltage / Phase / Hz	Fixtures	Watts per Fixture	Kit Wattage	Lumens per Fixture	Suggested HP Sizes
LED3C11-000E	1m stub	230 / 1 / 50	3	11	33	910	1/2 - 1HP
LED6C11-000E	1m stub	230 / 1 / 50	6	11	66	910	2 - 5HP

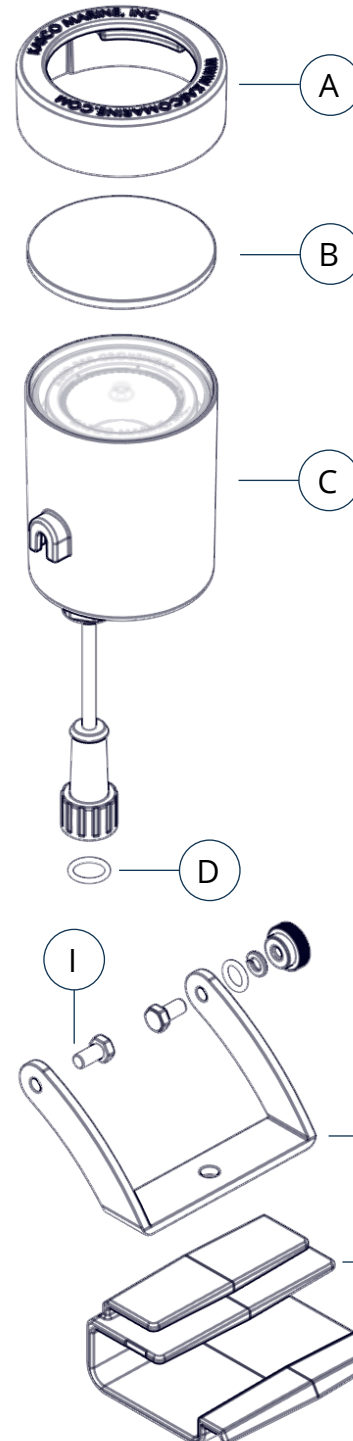
WIRE SIZE

Model	Cord Length			
	10m	30m	60m	90m
LED3C11-000E	1.5mm ²	1.5mm ²	1.5mm ²	1.5mm ²
LED6C11-000E	1.5mm ²	1.5mm ²	1.5mm ²	1.5mm ²

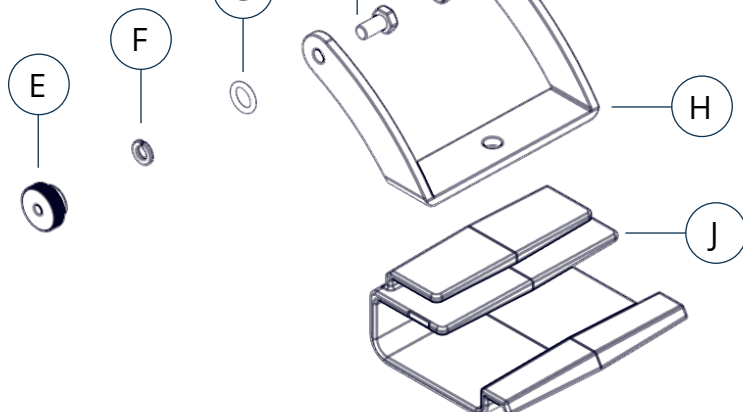
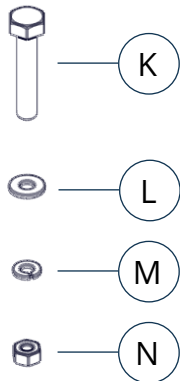
PARTS INCLUDED

ID	Description	Qty	Part No.
A	Lens cap	3	345551
B	Colored lens kit (4 colors)	1	345559
C	LEDC11 fixture	3	345500
D	Cord connector O-ring	3	345035
E	10-32 thumb nut	6	345043
F	#10 split lock washer	6	771037
G	Bracket O-ring	6	345008
H	Bracket, clip	3	345007
I	10-32 x 1/2" hex screw	6	345042
J	Snap-on light clip	3	361445
K	1/4"-20 x 1-3/8" hex bolt	3	584692
L	1/4" flat washer	3	258476
M	1/4" split lock washer	3	840537
N	1/4"-20 nut	3	840536
O	Cable tie (not pictured)	3	415038

*Double quantities for 6-light kit

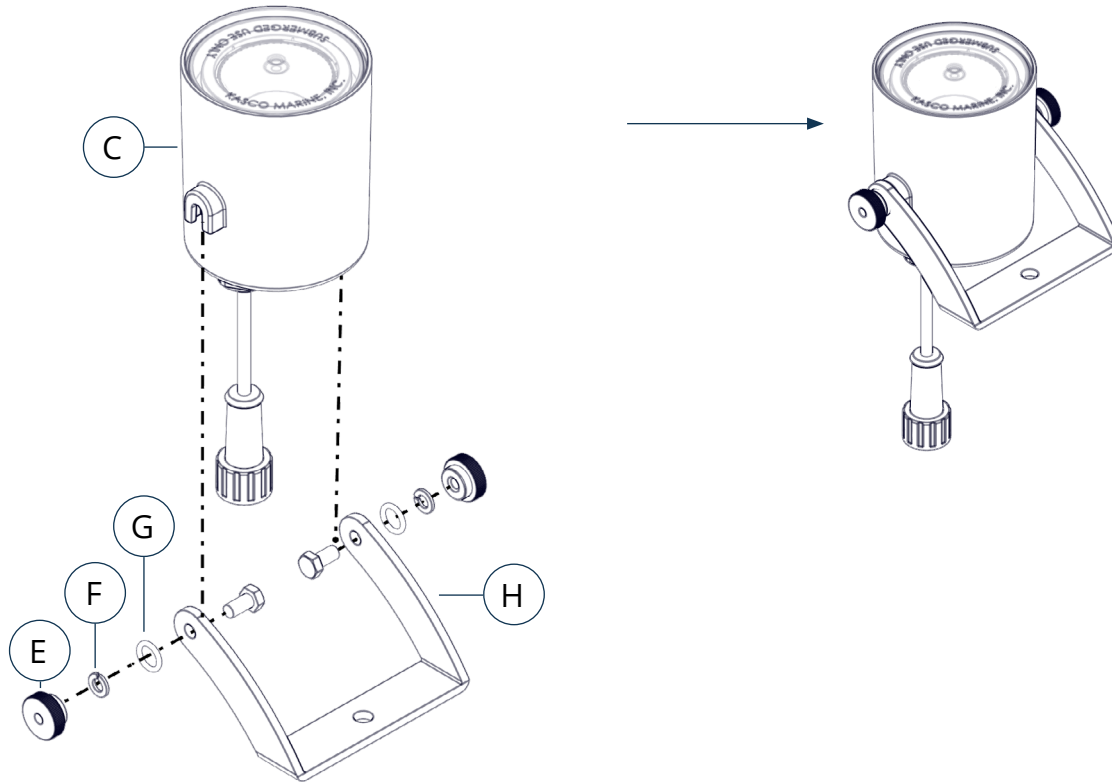


Alternate Mounting Method

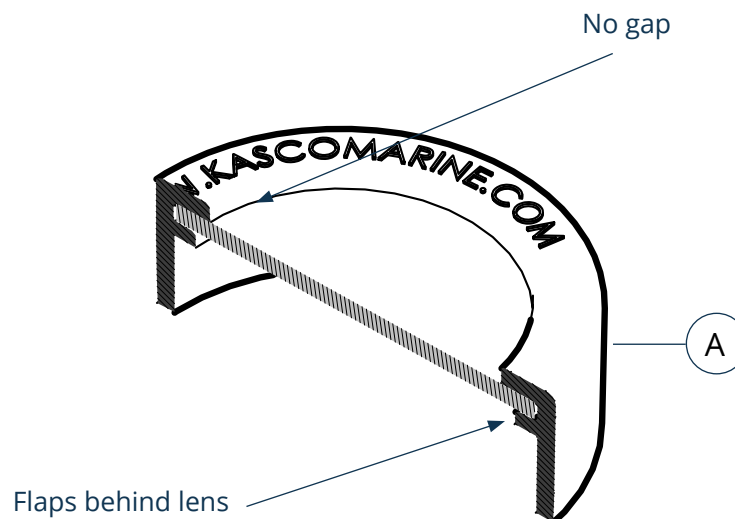


MOUNTING INSTRUCTIONS

1. Attach the bracket (H) to the light fixture (C) by fitting the head of the 10-32 x 1/2" hex screw (I) into the tabs on each side of the fixture. Place one bracket O-ring (G), one #10 lock washer (F), and one thumb nut (E) on each #10 screw outside the bracket. Tighten the thumb screws on each side hand tight only. Repeat this step for all fixtures.

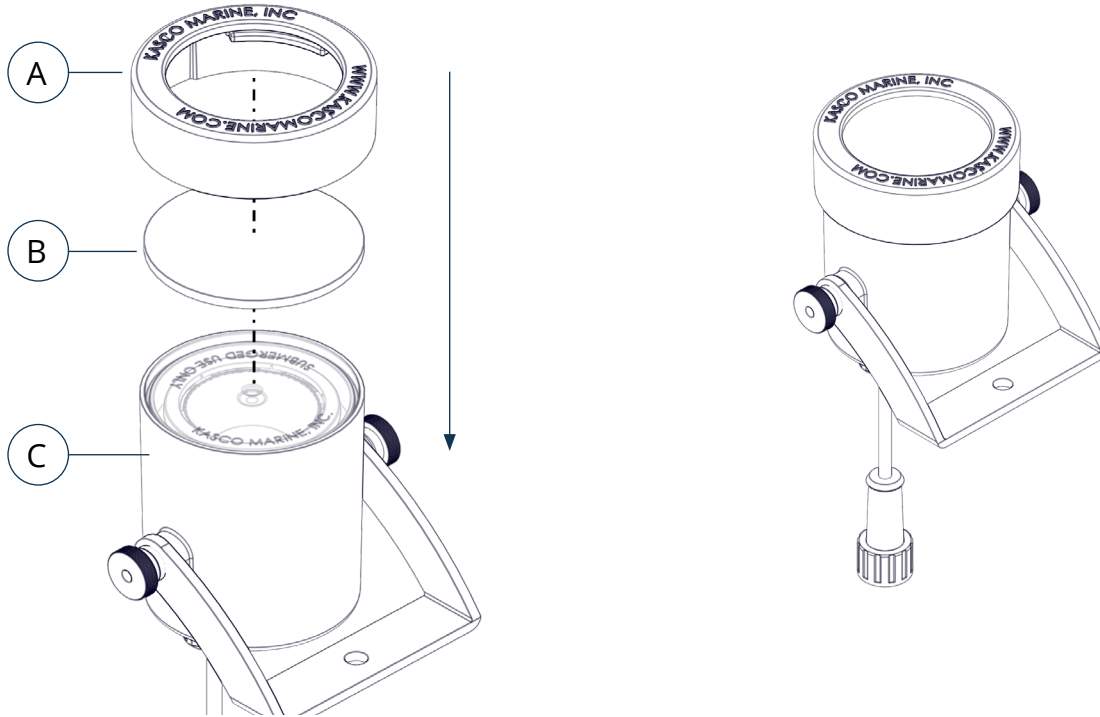


2. (Optional) If you want to use one of the color choices instead of the standard soft white light, peel the protective lining from both sides of the colored lens (B) of your choice. Place the lens inside the lens cap (A) making sure the 3 flaps are holding the lens in place. Repeat this step for all lens caps. Continue to Step 3.

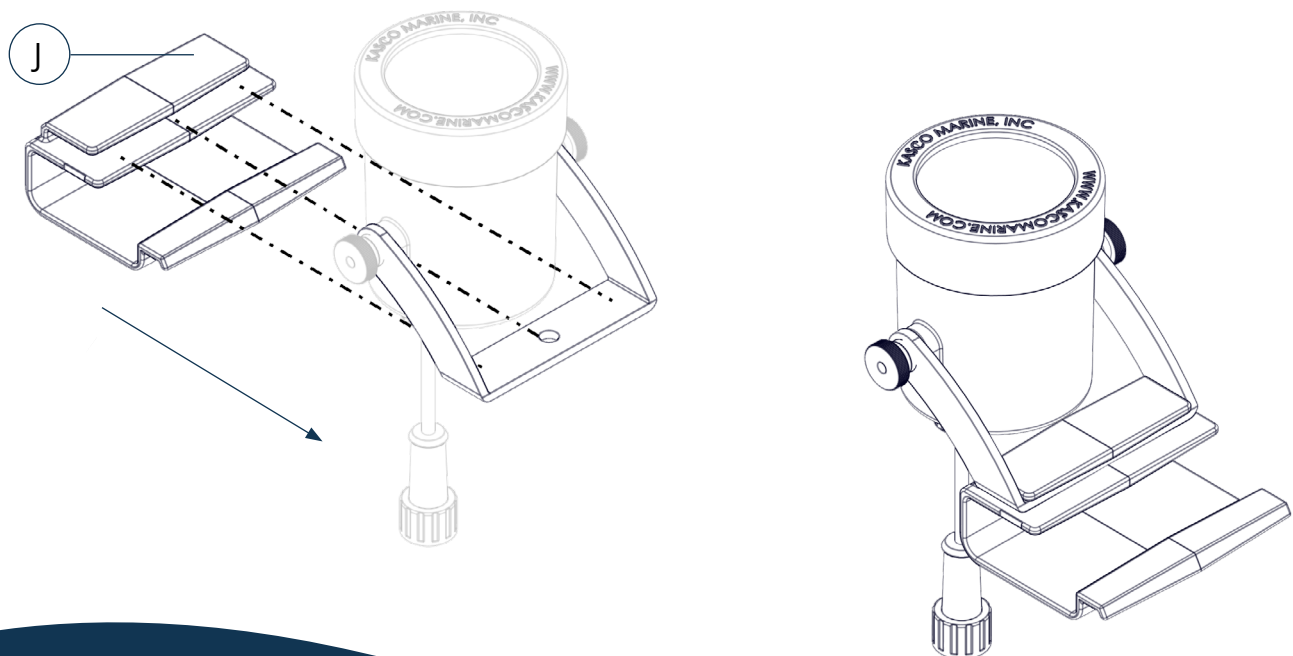


MOUNTING INSTRUCTIONS (CONT.)

- (Optional) Place lens caps over the light fixture (C) as shown. Ensure the cap is seated all the way down onto the fixture housing, as shown. Make sure the fixture and lens are clean before installing the lens cap. Repeat for all fixtures.

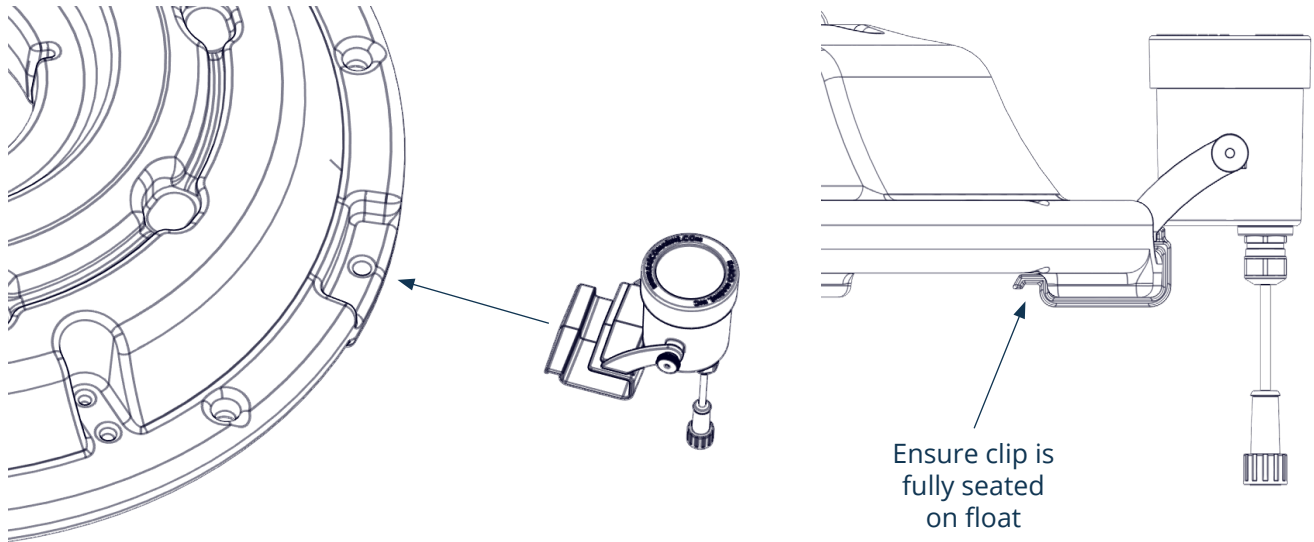


- Slide bracket into the top flange on the snap-on clip (J) until it clicks into place and is secure.
NOTE For 1/2, 3/4, & 1HP EAF units, use alternate hardware instead of the snap-on light clip, following the directions on page 7.

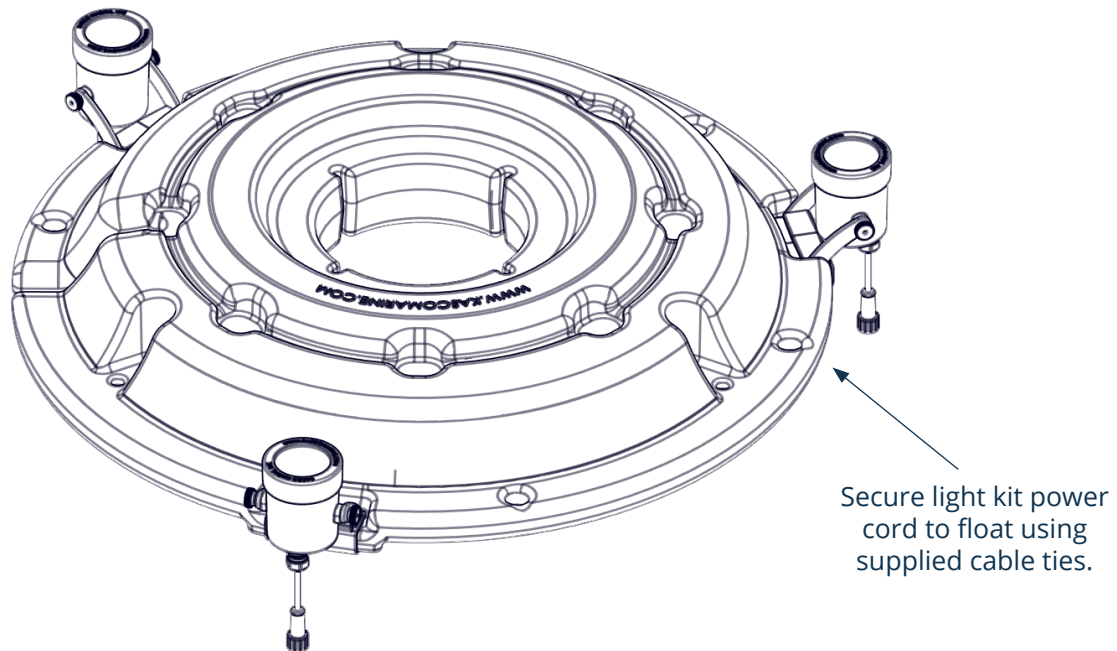


MOUNTING INSTRUCTIONS (CONT.)

5. After attaching the unit to the float according to fountain/aerator instructions, push the clips into recesses on float until you hear an audible click indicating the fixture is secure.



6. Repeat for remaining fixtures, spacing evenly around the float. Adjust the angle of the lights if desired, being sure to use the same angle for all fixtures. Cable ties can be used to attach fixture cords to float to decrease play and ensure protection. Cable tie (O) light kit power cord to float opposite the fountain power cord for balance and to prevent damage from the fountain. Upon installation of the assembled unit, connect the light kit to a field-installed RCD protected outlet and timer. Remember: **LEDC11 fixtures MUST be properly submerged (approximately halfway) to avoid overheating.**



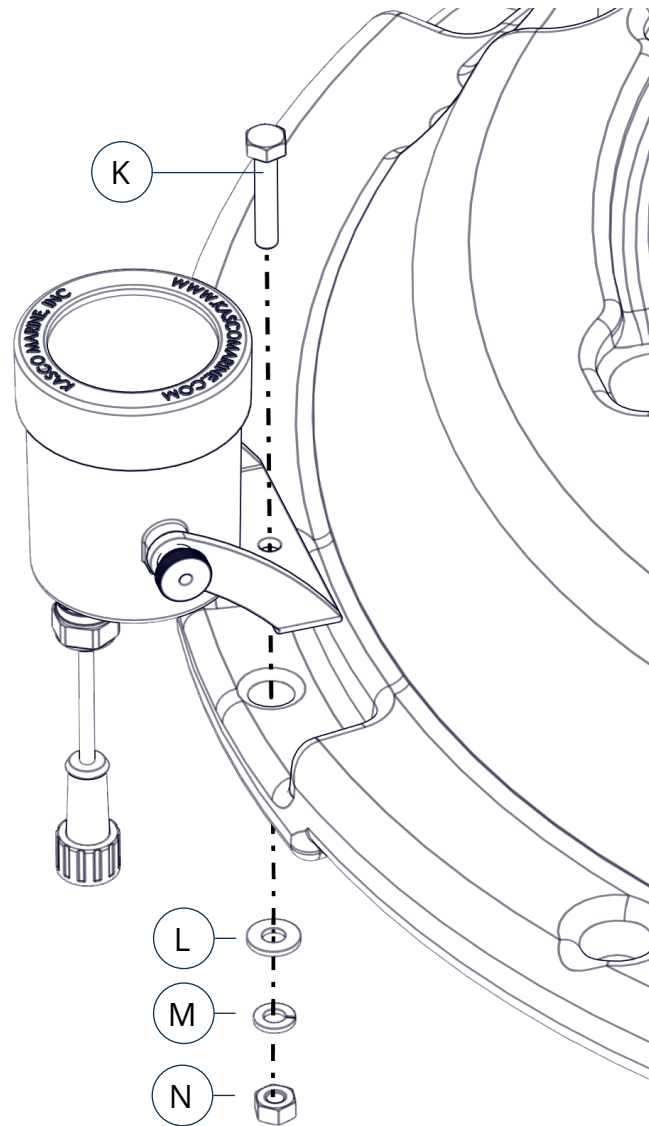
ALTERNATE MOUNTING INSTRUCTIONS

For EJ/EVFX units:

Included with the light kit is optional hardware for use instead of the snap-on light clip. Assemble parts K, L, M, and N as shown in the diagram below and tighten until secure. 7/16" socket and wrench required.

For 1/2, 3/4, & 1HP EAF units:

Use alternate hardware instead of the snap-on light clip, following the directions above and continuing to step 6 on page 6.



For Large Surface Aerator units:

Supplementary hardware is required in order to mount LEDC11 light fixtures to a large (2HP+) surface aerator. Use the additional hardware kit (P/N 840303 for 3 light fixtures or 840306 for 6 light fixtures).

These kits are sold separately. Contact Kasco at sales@kascomarine.com or your local distributor for order information.

MAINTENANCE RECOMMENDATIONS

Under NO CIRCUMSTANCE should anyone enter the water while a fountain is operating.

The following maintenance procedures can be utilized to ensure many years of quality performance from your Kasco fountain and light kit and reduce the need for more costly repair work. Note that the LED fixtures are sealed and do not require any maintenance other than cleaning. Do not attempt to open light fixtures, as this will void the warranty.

Proper Installation

Installation of the LED light fixtures on aerating fountain units with the mounting brackets oriented as shown will ensure proper submersion of the light fixtures. Each fixture must be partially submerged in order for lights to operate properly. Other applications for these fixtures must provide at least the same submersion to properly cool the fixture. **Operating the fixtures out of water will damage the LED and void warranty.** Proper installation of Kasco equipment will include a power source with ground fault protection. A complete list of control panels can be found in the Accessories section of kascomarine.com.

Observation

Operating equipment should be observed on a regular basis (daily, if possible) for any reduction or variation in performance. If a change in performance is observed, the equipment should be disconnected from power and inspected.

Winter Storage

In regions where there is significant freezing in the wintertime, the light kit should be removed from the water to protect it from the expansion pressure of ice. Storage over winter is best in a location that is out of the sun and cool, but above 0 °C.

Cleaning

Light kits should be removed from the water at least once per year (at the end of the season in cold climates) to clean the exterior of the system. The light fixture surfaces dissipate heat into the water, and any algae, calcium, or other build-up will become an insulator that blocks heat transfer and may lead to overheating and damage. Keeping the lenses clean will also ensure the brightest light possible.

WARRANTY

Warranty Policy

Warranty period: LED3C11, LED6C11 = 2 year Limited Warranty. Kasco® Marine, Inc. warrants this light kit to be free from defects in material or workmanship under normal use and service. The Kasco Marine, Inc. obligation under this warranty is limited to replacing or repairing free of charge any defective part within the warranty period from the date of shipment. Customer shall pay shipping charges for returning the unit to Kasco.

THIS WARRANTY IS IN LIEU OF ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, AND ANY OTHER OBLIGATION OR LIABILITY WHATEVER ON THE PART OF KASCO MARINE, INC. AND IN NO EVENT SHALL KASCO MARINE, INC. BE LIABLE FOR ANY SPECIAL OR CONSEQUENTIAL DAMAGES.

Warranty is void if:


- The light kit is not maintained properly according to the Maintenance Recommendations supplied in this Manual.
- The lights, control box, or power cord are altered in any way from original shipment. Cuts in the power cord are not covered under warranty.
- The light kit is damaged by unauthorized tampering.

Warranty Claim Procedure

The best method for establishing warranty period is by keeping your original receipt and registering the equipment online at kascomarine.com under the Warranty Information section.

Once warranty coverage has been established, the light kit may be sent to Kasco or any Kasco Authorized Repair Center for evaluation and repair.

REPAIR

NOTE  The LED light fixtures are sealed and do not require any physical maintenance other than cleaning.

Any required repairs must be performed by Kasco. Any alterations or changes made to Kasco units by an unauthorized source will void the warranty. This includes tampering with the unit, power cord, and/or control box.

A physical Kasco Repair Form must be included with any equipment sent to Kasco or an Authorized Repair Center. This form can be found under the Support section of kascomarine.com. If no Repair Form is available, include your name and physical address for return delivery of the repaired light kit and a daytime phone number and/or e-mail address for correspondence regarding the warranty claim.

Visually inspect the power cord for any cuts, rodent chews, etc. to determine if it should be included in the repair shipment. The cord may be needed by the shop to diagnose the failure.

Once warranty coverage has been established, the equipment may be sent to any Kasco Authorized Repair Center or to Kasco at the address listed on the repair form.

NON-WARRANTY REPAIRS

Most failed equipment can be repaired at substantially lower costs than replacement with new. If your light kit requires repair and is no longer covered under warranty, please contact Kasco or your local distributor for available options. Please ship according to the instructions above.

- Kasco does estimates on repairs at the request of the customer. The request for estimate should be included in the letter that accompanies the returned unit and must include a daytime phone number and/or e-mail address. We will contact the customer with a total after the unit has been evaluated, but before the work is performed.
- All estimates that are rejected for repair will be destroyed unless otherwise directed by the customer. Rejected equipment can be returned at the customer's expense for shipping and handling charges.

Billing:

All non-warranty repairs will be returned and billed to the customer unless otherwise directed. Kasco accepts Visa and MasterCard credit card payments. Kasco will call for credit card information upon completion of the estimate at the customer's request.

Please see the Support section of kascomarine.com for more information about warranty and repairs. Contact Kasco at the number above or sales@kascomarine.com for additional information and your closest Authorized Repair Center.

CONTACT US



Kasco Marine
800 Deere Road
Prescott, WI 54021



715.262.4488



kascomarine.com | sales@kascomarine.com

REPAIR CONTACT FORM

- Kasco requires that all equipment sent for repair **MUST** be accompanied by this form and marked to Repairs attention.
- Unit should be cleaned before shipping.
- Kasco is **NOT** responsible for shipping damage accrued in return shipment.
- It is the responsibility of the customer to ship and pay freight to Kasco.

Kasco Marine
800 Deere Road
Prescott, WI 54021
Attn: Repairs

Note: Contact information should be that of the person or company to contact for repair information.

Company name			
Contact name	First name	Last name	
Address	Street		
	City		
	State		
	ZIP code		
Phone number	Primary	Alternate	
Email address			
Preferred method of contact (circle one)	Phone	Email	
Purchase order number			
Additional product information	Serial Number	Cord Length	
Information for Repair Technician			
Was this unit used in a chemical treatment or wastewater application? (circle one)	Yes	No	
Additional notes			