



# Owners Manual

## LED Fountain Light Kit

### Model LED8012



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## THANKS

We at Kasco Marine, Inc. would like to both thank and congratulate you on your purchase of the LED Light Kit. This kit will illuminate your fountain for a beautiful display. We thank you for choosing Kasco for your fountain and aeration needs and want you to be completely satisfied with your purchase.

## Important Safety

Please read and follow these extremely important safety and handling instructions for your Kasco equipment. Following these instructions will help ensure your safety and the quality performance of your equipment.

- Under NO circumstances should anyone enter the water with the electrical equipment plugged in and/or in operation. All Kasco equipment is designed and built for use in water, and control panels are available with GFCI protection. However, it is NEVER recommended to enter the water with the equipment in operation.
- Kasco's Light Kit is intended for use with a Listed control panel having a GFCI protected receptacle, or field wiring terminals and disconnect switch, or a timer with a disconnect for use with a GFCI receptacle. They are intended to be mounted on a floating fountain or aerator for use in a natural or man-made body of water to comply with NEC Article 682.
- Kasco's Light Kit has not been evaluated for use in swimming pools, spas or stationary fountains.
- The power connection for the light kit is 120Vac and MUST be plugged into a GFCI protected receptacle or GFCI protected field terminal connections.
- Caution should be used when dealing with any electrical and/or moving equipment.
- NEVER run the unit out of water. It could create a dangerous situation for the operator.
- Extreme caution should be used around water, especially cold water, as in Spring, Fall, and Winter, which poses a hazard itself.
- NEVER lift or drag the fountain or light kit by the power cords. If you need to pull the unit to the side of the pond, use the anchoring ropes.
- Do not use waders in ponds/lakes that are deep, with drop-offs, drastic slopes, or soft bottom material.

- Do not use a canoe or boat that tips easily during installation
- To reduce the risk of electrical shock, be certain the light kit is connected to the GFCI protected lighting circuit of your control panel. For more information regarding your control panel instructions, refer to your fountain owner's manual or download control panel wiring diagrams from <http://kascomarine.com/instructions.html>. A control panel must be installed a minimum of 5 feet (3m in Canada) from the body of water unless separated from the body of water by a fence, wall, or other permanent barrier that will make the unit inaccessible to persons in the water.

## General Instructions

### INSPECT THE SHIPMENT

Immediately inspect this shipment for any visible damages. Also cross reference the "Parts Included" section to check for part shortages. Shortages should be reported immediately to your Kasco Marine distributor or representative and damages reported to your carrier and Kasco Marine.

## Parts Included

### LED8012

- A. Light Kit power cord with junction box (1)
- B. 8 puck lights (1) (color depends on purchase)
- C. Dual Lock Fastener Squares (16)
- D. Cable tie (1)

Note: Part A and B are already connected.

### TOOLS & SUPPLIES NEEDED

- A. Diagonal Pliers or Cutter for Nylon Cable Tie

## LED8012 Assembly Instructions

For ease of assembly, make sure the Aerating Fountain is completely assembled. Place the assembly upright.

1. Unbundle the 8 puck light kit. Unpeel the backing from one of the dual lock squares and place on the back of one of the puck lights. (See Fig 1.) Repeat this on the other 7 puck light fixtures.

Fig.1



#### Mounting to Fountain model 2400SF (xStream)

2. There are 8 circular indents on the float of the 2400SF xStream fountain. Make sure these areas are clean, free of debris, and dry. Remove the backing from one of the dual lock squares and stick to the bottom of one of the indents (See Fig. 2). Repeat to the other 7 indents of the float.

Fig 2



3. Place the puck light that has the power cord leading to the junction box in the indent on the float that has a notch for power cords. This would be the same area where the power cord for the fountain is located. Push down gently until the puck light snaps in place (Fig 3). Place the other puck lights in the float and gently snap them in place (Fig 4).

Fig 3



Fig 4



4. Cable tie the main power cord after the junction box to the opposite side of the float where you cable tied the fountain power cord. This will help provide strain relief to junction box and puck lights if the cord is accidentally pulled. (Fig 5)

Fig 5



5. Upon installation of the assembled unit, connect your LED light kit to your field installed GFCI protected outlet and timer.

### **Additional Color or Replacement Kits**

If you wish to add a different color or need a replacement kit, these part numbers will include the 8 puck light assembly with 3' cord. They will not include the junction box or main power cord leading to the control panel. The 8 puck light assembly will connect to your existing junction box with the underwater connector. See the section on Replacing 8 Puck Lights for details.

LED8012W	White color 8 Puck LED assembly
LED8012R	Red color 8 Puck LED assembly
LED8012B	Blue color 8 Puck LED assembly
LED8012G	Green color 8 Puck LED assembly
LED8012A	Amber color 8 Puck LED assembly

### **Maintenance Recommendations**

- Under No Circumstances should anyone enter the water while a fountain is operating.
- Please keep the original box for maintenance shipping.

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.

**PROPER INSTALLATION:** Proper installation of Kasco equipment will include a power source with ground fault protection. For Fountain models, Kasco provided control panels included with the unit have built-in ground fault protection. Ground fault interrupters are a safety feature that can also alert you to electrical leaks in the equipment. If you have repeat, consistent trips of the ground fault device, the equipment should be disconnected and removed from the water. The power cord should be inspected for damage and you should contact your distributor, or call Kasco Marine at 715-262-4488 for further instructions or email Kasco at [sales@kascomarine.com](mailto:sales@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 fountain and light kit should be removed from the water to protect them from the expansion pressure of the ice. In many areas, fountains will keep some amount of ice open through the winter. However, when the water is thrust into the air, it is exposed to the colder air temperatures longer and can actually make ice thicker on the pond/lake. Storage over winter is best in a location that is out of the sun and cool, but above 32° F.

**CLEANING:** Fountains and 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, especially the stainless steel motor housing (can) and light fixtures. The motor housing and light fixture surfaces dissipate heat into the water and any algae, calcium, etc. build-up will become an insulator that blocks heat transfer. In warmer regions it is recommended that the motor is removed and cleaned at least two to three times per year depending on conditions. In most cases a power washer will be sufficient if the unit and algae are still wet. Also make sure the lens of the light fixtures is clean to ensure the brightest light possible.

**LIGHT PUCK REPLACEMENT:** The LED puck lights are sealed and do not require any maintenance other than cleaning. If a kit fails to operate it can be removed. Only perform this removal/replacement with all equipment disconnected from the power source.

Any required repairs need to be performed by Kasco Marine. 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. Please contact Kasco Marine, Inc. at 715-262-4488 or [sales@kascomarine.com](mailto:sales@kascomarine.com).

## Warranty Policy

1 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 one (1) year 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 Owner's 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 warranty coverage can be established by the date of purchase receipt or by calling Kasco Marine, Inc. Please call Kasco Marine at 715-262-4488 prior to shipping to receive a Return Authorization Number and/or Repair Form, then ship to:

Kasco Marine, Inc.  
800 Deere Rd.  
Prescott, WI 54021  
Attn: Repairs

You can also email Kasco at [sales@kascomarine.com](mailto:sales@kascomarine.com)

Note: Please contact Kasco to determine if the power cord and junction box needs to be returned to be considered for warranty. The power cord may be needed to diagnose the failure. All other components must be returned with the Light Kit as originally assembled. Any missing parts will be replaced at the customer's expense and, if determined to have caused the failure, could void the entire warranty.

Please include the Repair Form received from Kasco Marine or your local distributor with the shipment. 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.

Any expedited shipping method for the return of the unit is at the customer's expense. Kasco Marine will return units repaired under warranty at our expense via ground freight

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 Marine for current repair pricing. Please ship according to the instructions in the previous section. Again, it is best to call ahead for a Return Authorization Number and/or Repair Form so we know the repair is coming.

All light kits that are rejected for repair will be destroyed unless otherwise directed by the customer. If the customer would like the Light Kit returned, it will be restored as closely as possible to the condition in which it was received and shipped at the customer's expense for shipping and handling charges.

Billing:

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

All other warranty and repair inquiries should be directed to Kasco Marine, Inc. at 715-262-4488 or [sales@kascomarine.com](mailto:sales@kascomarine.com)

## Troubleshooting tips - light kit

The following is provided to help diagnose a probable source of trouble. It is a guideline only and may not show all causes for all problems. For additional troubleshooting help contact your local distributor or visit [www.kascomarine.com](http://www.kascomarine.com) for additional help.

**NOTE: you may need to refer to your owners manual that was provided with your fountain for additional control panel settings and adjustments.**

Problem	Possible Cause	Likely Remedy
Light kit is installed and wired, but will not turn on.	Power is off or disconnected	Ensure control panel is connected to the electrical circuit. Verify circuit breakers, timers, and/or interlock switches are turned on and functional. Refer to your owners manual that was provided with the fountain.
	Not dark enough for photo eye to activate	<b>C-25 control panel:</b> The control panel has a photo eye on the left side of the enclosure exterior. This photo eye measures ambient light. To activate, the photo eye must not measure any ambient light for at least several minutes. Also, the C-25 timer must be turned on (fountain operating) to allow the light circuit to energize. Covering the photo eye with black electrical tape will activate the photo eye for testing.
	GFCI is tripped	<b>C-25 control panel:</b> Reset the GFCI. If the GFCI does not reset it could be a ground fault in the fountain wiring, or the light kit wiring. Unplug both the fountain and light kit and reset the GFCI. If it resets, plug fountain then light kit back in and see which one trips the GFCI. If the GFCI does not reset with both unplugged, then the GFCI may be defective.
Light work. However, they are not as bright as when first installed.	Dirty lights	Turn of power to the control panel and disconnect power cords to the fountain and the light kit. Bring the fountain to the shore and inspect the light lenses. Over time, algae growth and hard water deposits on the lenses can block light output. Clean the lenses with a soft brush and the light should be bright again.
	LED emitters out	The 8 puck lights have a total of 48 led emitters (6 per puck) to provide an overlapping sphere of illumination. Over time, you may see a few of the led emitters stop working. If this occurs, the light kit will continue to work without a noticeable difference in light output. If you have more than a few emitters failing to illuminate, and it impacts the illumination of your fountain, the 8 puck light assembly may need to be replaced.

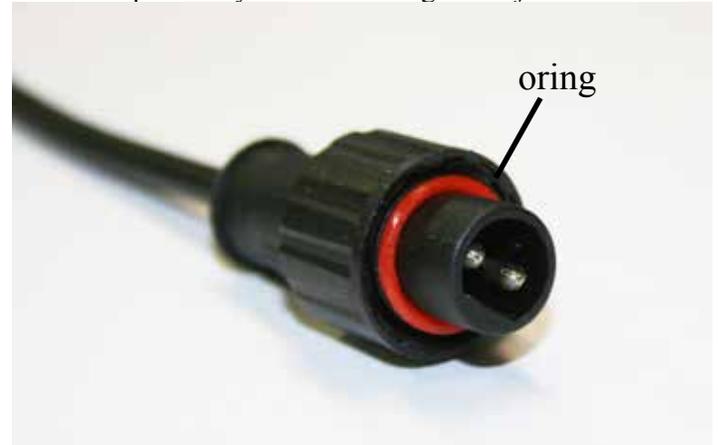
## Replacing 8 Puck Lights

If you have purchased a replacement or additional color kits, you will need to remove the 8 puck lights from the junction box in order to switch the lights.

1. Remove the puck lights from the float by grabbing the tabs of the pucks and lift using a peeling motion.
2. Unscrew (counterclockwise) the underwater cord connector on the junction box.



3. Make sure an orange oring is installed on the cable of the new 8 puck kit you are attaching to the junction box.



4. See assembly instructions for attaching the new 8 puck kit to the float. If you removed the cable tie strain relief, make sure you cable tie the main power cord after the junction box again.



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### Customer Repair Form

**\* Important Reminders \***

- All repairs sent in **MUST** be accompanied by a copy of this completed sheet!
- Address your Repair to Kasco Marine, Attn: Repairs (or to your Authorized Repair Center.
- Shipping to Kasco or an Authorized Repair Center is paid for by the customer.
- You must include the power cord with each unit sent in for repair to be considered for warranty repair unless told by customer service that you may exclude it. Please contact Kasco if in doubt.
- Do not ship the control box with the unit for repair, unless otherwise instructed.

Today's Date: \_\_\_\_\_

**Customer Information**

Name: \_\_\_\_\_

Phone Number: \_\_\_\_\_

Address: \_\_\_\_\_

Alternate Number: \_\_\_\_\_

City: \_\_\_\_\_

Email Address: \_\_\_\_\_

State: \_\_\_\_\_

Zip Code: \_\_\_\_\_

**Unit Information:**

Model # (Ex. LED8012): \_\_\_\_\_

Serial # (Ex. 2101LEDC8025) \_\_\_\_\_

Date Purchased: \_\_\_\_\_

Purchased From: \_\_\_\_\_

Earliest Date of Problem: \_\_\_\_\_

Description of Problem:

Comments:

## Registration Information

Fill in the information below and keep for your records.

Model # (Ex. LED8012) \_\_\_\_\_

Serial # (Ex. 2101LEDC8025) \_\_\_\_\_

Purchase Date: \_\_\_\_\_

Purchased From: \_\_\_\_\_

Registration Date: \_\_\_\_\_



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