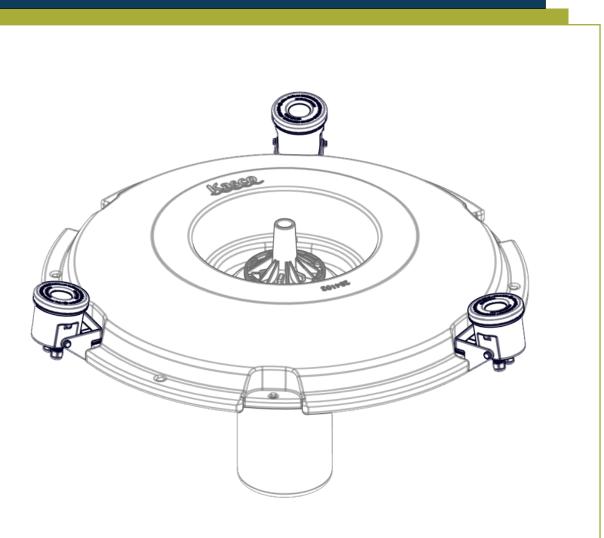


LED3S19, LED6S19 WaterGlow Stainless Steel Lighting Operation & Maintenance Manual







Contents

| Safety | 2 |
|-----------------------------|---|
| Tools Required | 2 |
| Parts Included | |
| Mounting Instructions | 4 |
| Maintenance Recommendations | 7 |
| Warranty | 7 |
| Repair | 8 |
| Non-Warranty Repairs | 8 |
| Troubleshooting Tips | |
| Repair Contact Form | |

SAFETY

Please read and follow these important instructions to help ensure your safety and the quality performance of your Kasco equipment.

- LEDS19 kit is 120Vac and MUST be plugged into a GFCI protected receptacle or GFCI protected field terminal connections.
- LEDS19 fixtures MUST be properly submerged (to mark on housing) to avoid overheating; insufficient submersion or operation
 out of water will damage fixtures and void warranty.
- Use caution when dealing with any electrical and/or moving equipment.
- Under NO CIRCUMSTANCES should anyone enter the water with the electrical equipment plugged in and/or in operation.
- Kasco WaterGlow lighting kits are 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 WaterGlow lighting kits have not been evaluated for use in swimming pools, spas or stationary fountains.
- Use extreme caution around water, especially cold water, as in spring, fall, and winter, which poses a hazard in and of itself.
- NEVER lift or drag the equipment by the power cords. If you need to pull the unit to the side of the pond, use the anchoring ropes.
- Do not use boats that tip easily for lighting kit installation and follow all boating safety rules and regulations, including wearing a
 PFD (Personal Flotation Device). Do not use waders in deep ponds/lakes or ponds/lakes with drop-offs, drastic slopes, or soft
 bottom material.
- For more information regarding your control panel instructions, refer to your equipment owner's manual. 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. A complete list of control panels can be found in the Accessories section of kascomarine.com.

TOOLS REQUIRED



7/16" socket and driver or combination wrench

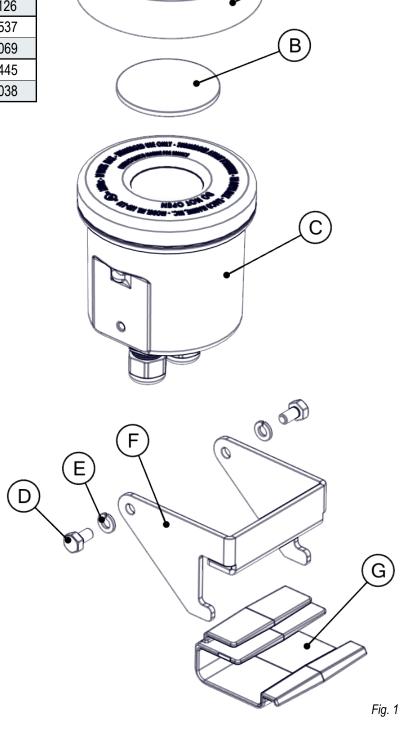




PARTS INCLUDED

| ID | Description | Quantity | Part # |
|----|-----------------------------|----------|--------|
| Α | Lens cap, S19 | 3 | 346090 |
| В | Colored lens kit (4 colros) | 1 | 345559 |
| С | LEDS19 fixture | 3 | LEDS19 |
| D | 1/4"-20 x 1/2" hex screw | 6 | 451126 |
| E | 1/4" lock washer | 6 | 840537 |
| F | S19 bracket, clip | 3 | 346069 |
| G | Snap-on light clip | 3 | 361445 |
| Н | Cable tie (not pictured) | 8 | 415038 |

^{*}Double quantities for 6-light kit

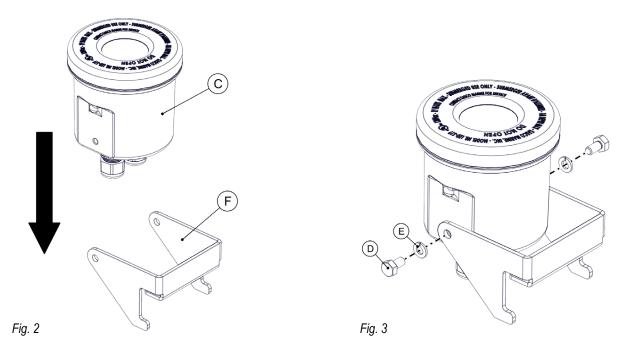






MOUNTING INSTRUCTIONS

1. Attach the S19 bracket (F) to the light fixture (C) by using two 1/4"-20 x 1/2" hex screws (D) on either side in combination with 14" lock washers (E). 7/16" wrench required. 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, unpeel 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.

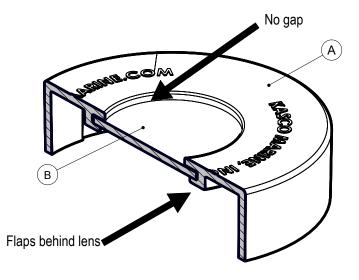
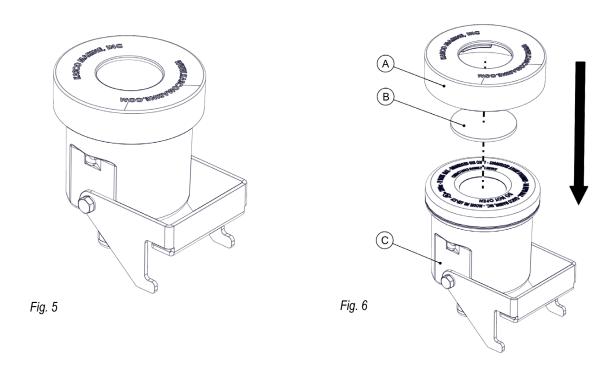


Fig. 4

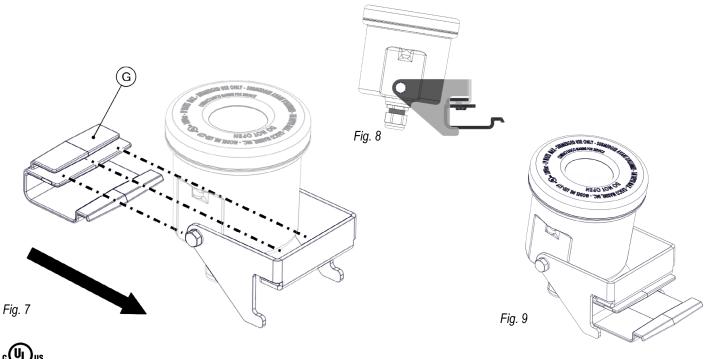




(Optional) Place lens caps over the light fixture (C) as shown. Ensure the cap is seated all the way down onto the fixture housing. Make sure the fixture and lens are clean before installing the lens cap. Repeat for all fixtures.



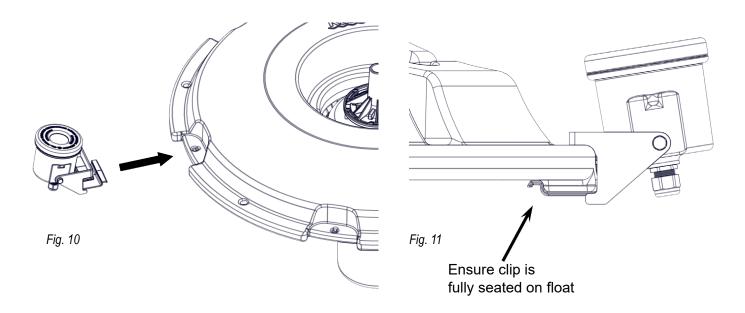
Slide bracket into the top flange on the snap-on clip (G) until it clicks into place and is secure.



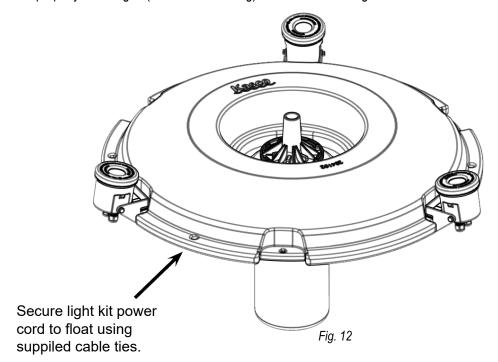




5. After attaching the unit to the float according to fountain/aerator instructions, push the clips into recesses on float until you hear an audible click indicating the fixture is secure.



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) the light kit power cord to the 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 GFCI protected outlet and timer. Remember: LEDS19 fixtures MUST be properly submerged (to mark on housing) to avoid overheating







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. The control panel included with the equipment has built-in ground fault protection for both the fountain and the lighting kit. 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 contact Kasco Marine at 715-262-4488 or sales@kascomarine.com for further instructions. 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 32° F.

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: LED3S19, LED6S19 = 3 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 Marine or any Kasco Authorized Repair Center for evaluation and repair.



7 884050 / 2021.1.2



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 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.

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 Product 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.

Note: 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:



Kasco Marine 800 Deere Road Prescott, WI 54021 Phone: 715-262-4488
Fax: 715-262-4487
www.kascomarine.com
sales@kascomarine.com

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 or your local distributor for available options. Please ship according to the instructions above.

- Kasco Marine 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:

8

All non-warranty repairs will be returned and billed to the customer unless otherwise directed. Kasco Marine 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.

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





TROUBLESHOOTING TIPS

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 kascomarine.com for additional guidance. Note: you may need to refer to your owner's manual that was provided with your fountain for additional control panel settings and adjustments.

"My light kit is installed and wired but will not turn on."

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 owner's manual that was provided with the fountain.

It may not be dark enough for the photo eye on the control panel to activate.

- Kasco C-25, C-85, and C-95 control panels have 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. Covering the photo eye with black electrical tape will activate the photo eye for testing.
 - C-25 control panel: The C-25 timer must be turned on (fountain operating) to allow the light circuit to energize.
 - C-85, or C-95 control panel with GFCI outlet and photo eye control: The fountain timer must be turned on (fountain operating) to allow the light circuit to energize. While the photo eye is covered, the GFCI outlet can be reset if tripped.

The timer may not be set properly.

C-85, or C-95 control panel (and all 3phase fountain control panels) with terminal connections and timer control for light kit: The control panel
has a second timer for controlling the lights (no photo eye). Ensure the light timer is set to operate the lights. The timer has a built-in Hand-OffAuto switch. Ensure the switch is set properly. Ensure the fountain is turned on. The light timer will not energize the light kit unless the fountain
circuit is energized.

The GFCI may be tripped.

- C-25 control panel: 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.
- C-85, or C-95 control panel with GFCI outlet and photo eye control: To reset the GFCI outlet the fountain timer must be turned on, and the photo eye must be activated. (Black electrical tape can be wrapped around the photo eye to activate it.) Once these are on, the GFCI reset button can be pressed. (Unplug the light kit prior.) Plug the light kit in and see if it operates. If the GFCI trips again then the light kit may be damaged. If the GFCI does not reset (with light kit unplugged) then it may be defective, or the photo eye is not activated to send power to the outlet.
- C-85, or C-95 control panel with terminal connections and timer control for light kit: For panels with a GFCB (ground fault circuit breaker) and timer-controlled lights, simply reset the two-pole breaker. This will turn the fountain and light kit back on if the timers are set to on. If it trips again, disconnect the light kit from the terminals and reset. WARNING! You must turn off power to the panel before disconnecting any wiring from the terminals. If the breaker trips with the light kit disconnected, then disconnect the fountain as well and reset. If the breaker continues to trip it may be a defective GFCB. If the breaker resets, then reconnect the fountain then the light kit to see which one trips the GFCB.
- 3phase fountain control panels: 3phase fountain panels have a ground fault sensing module that will trip if either the light kit or fountain has a ground fault. To reset the module, simply press the reset button in the panel. This will turn the fountain and light kit back on if the timers are set to on. If it trips again, disconnect the light kit from the terminals and reset. WARNING! You must turn off power to the panel before disconnecting any wiring from the terminals. If the GFI module trips with the light kit disconnected, then disconnect the fountain as well and reset. If the GFI module continues to trip it may be a defective module or an internal wiring issue with the panel. If the module resets, then reconnect the fountain then the light kit to see which one trips the module.

"My lights work, but they are not as bright as they were when first installed."

Dirty lenses may be to blame.

Turn off 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 kit 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.

9







10



REPAIR CONTACT FORM

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

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

| Company name | | | |
|--|---------------|-------|-------------|
| | First name | | Last name |
| Contact name | | | |
| | Street | | |
| Address | City | | |
| Address | State | | |
| | ZIP code | | |
| Phone number | Primary | | Alternate |
| | | | |
| Email address | | | |
| Preferred method of contact (circle) | Phone | Email | |
| Purchase order number | | | |
| | Serial Number | | Cord Length |
| Additional product information | | | |
| Additional notes for repair technician: | | | |

Kasco Marine 800 Deere Road Prescott, WI 54021

