



LED light Fixture

Kasco Model# 345105, 345500, or 347000

Important Safety

Read and follow these important safety and handling instructions. 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.
- Disconnect all equipment from Electrical service prior to any maintenance or service work.
- 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. 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

Parts included

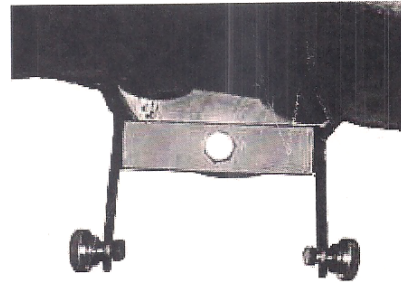
- LED light fixture (1)
- Nylon cable ties (3)

Refer to your original LED light kit owner's manual for complete light kit instructions.

Note: If this fixture is for a replacement, you will reuse the existing mounting bracket and hardware. It is suggested the fountain is removed from the water to perform the replacement to prevent the loss of hardware. Lost hardware is the responsibility of the installer.

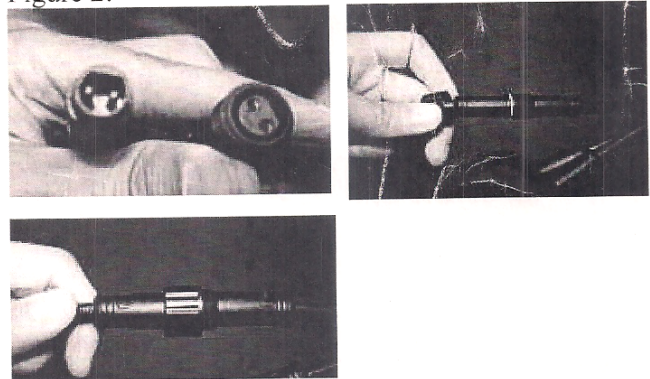
1. To remove the light fixture loosen the fixture thumb nuts just enough to slip the fixture off the bolt heads. NOTE: the thumb nuts and bolts do not need to be removed to replace the fixture. See Figure 1. Clip and remove any cable ties used to secure the fixture stub cord.

Figure 1:



2. While out of the water, clean off the water proof disconnect with a rag and unscrew the connector nut. With the nut unscrewed you can pull the disconnect halves apart. ENSURE no debris or water enters the disconnect sockets. See Figure 2.

Figure 2:



3. Install the new fixture by first connecting the disconnect halves and tightening the connector nut. Hand tighten only. Ensure the disconnect O-ring is in place.
4. Remount the light fixture in to the existing bolts and thumbnuts. The bolts must be loose to slip in to the fixture housing slots. Tighten the thumbnuts and position the fixture to the desired angle.
5. Use the cable ties provided to secure the light fixture stub cord to the fountain.
6. Reinstall the fountain in the pond and test for proper operation.

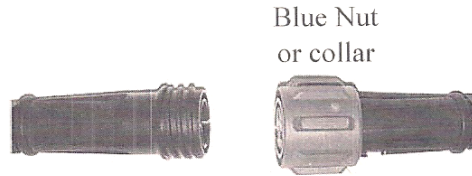


Quick Disconnect/Cord Connection Instructions

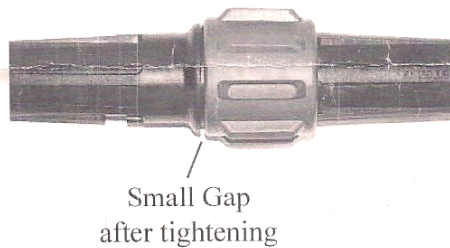
Important - Read Carefully Before Installation

Your Kasco Fountain, Aerator, or Circulator's power cord has been shipped separate from the unit. The unit itself has a stub cord with the male half of the Quick Disconnect. The cord that was shipped in a separate box has the female half of the Quick Disconnect.

To assemble the cord, the Quick Disconnect must be connected. Line up the pin assembly (male end) from the stub cord to the socket assembly (female end) on the cord and push together.



Once the two ends are together, tighten the large blue nut or collar to seal the connection. The blue nut or collar should be **HAND TIGHTENED ONLY!**



For seasonal removal, your Quick Disconnect includes an optional water tight cover. Simply separate the Quick Disconnect halves and insert the sealing cover into the large blue nut or collar and tighten firmly. The unit with the 30"+ stub cord can then be stored in a cool, dry place.

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Kasco C-25 Portable Timer with G.F.C.I protection

IMPORTANT:

Completely read these instructions and warnings prior to installing and operating your Kasco equipment.

This portable timer is designed to *CONTROL* the connected equipment only. **THIS SWITCH IS NOT TO BE USED AS A POWER DISCONNECT!** Unplug The C-25 and the equipment it controls before servicing. For maximum protection against electrical shock hazard, perform test procedure on G.F.C.I. (Ground Fault Circuit Interrupter) at least once a month. Mount at least 5 ft. from open water. Refer to your aerator/fountain owner's manual for additional safety and installation instructions. Failure to operate Kasco aerators/fountains and light kits with the C-25 will void the warranty and ETL/UL listings.

INSTALLATION:

The C-25 must be mounted upright on a vertical surface or post. Mount close to an outdoor receptacle to allow slack in the power cord from the C-25. Mount high enough above ground level for easy use and to prevent ground moisture/flooding from damaging the C-25. Use corrosion resistant screws to mount the C-25. One screw for the top hanger slot and one for the bottom mounting tab to secure the C-25. Insert the aerator (and light kit) power cord(s) through the hole in the bottom of the C-25 enclosure. Allow enough slack to prevent strain on the plugs. You can install the closure plate provided (break out additional slot for light kit cord) by pushing in place from the outside of the enclosure hole. Note: Install closure plate with 3R rating to maintain enclosure environmental integrity.

UNDER NO CIRCUMSTANCES SHOULD ANYONE ENTER THE WATER WHEN A UNIT IS IN OPERATION.

TIMER-OPERATING INSTRUCTIONS

The C-25 will turn the Kasco aerator/fountain ON/OFF with the timer. Kasco lights will turn ON/OFF with the photo eye only when the timer is ON. If the timer is OFF the light outlet will not energize.

1. Push each tripper to the outer ring for every 15 minutes of activation time.*
2. Turn timer dial clockwise until correct time-of-day is aligned with "TIME NOW" arrow.
3. Set AUTO/ON switch to AUTO for automatic timer control.

4. Plug aerator/fountain cord into the RIGHT side outlet (labeled UNIT).
5. Plug light kit cord into LEFT side outlet (labeled LIGHT).

*Note: For most efficient and effective operation, set the timer in segments of one hour activation time or greater. (Set 4 trippers on together for 1 hour minimum runtime). If you set the timer switch to ON. The aerator/fountain will operate continuously and lights will turn on/off by the photo eye. Refer to your aerator/fountain owner's manual for detailed timer instructions.

G.F.C.I TEST PROCEDURE

The G.F.C.I should be checked every month to ensure it is operating properly. Follow the steps below. It is recommended to maintain a maintenance diary of your monthly safety check.

1. Push the TEST button on the G.F.C.I. The RESET button will pop out and the G.F.C.I should turn off (no power to the receptacles). You can verify by plugging a test lamp into the outlets. Be sure the timer is set to ON. You may need to cover the photo eye to send power to the light receptacle.
2. If the G.F.C.I. tests Okay, restore power by pushing the RESET button back in. The test lamp will illuminate if power is restored. Note: The RESET button must be pushed firmly into place (with your finger) until it locks and remains latched after pressure has been removed.

WARNING: If the RESET button does not pop out, if the test lamp remains lit when the TEST button is pressed, or if the G.F.C.I. fails to reset properly, DO NOT USE the C-25. Contact a qualified service technician for assistance.

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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.

PROPER INSTALLATION: 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: LED3C11, LED4C11, 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 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.

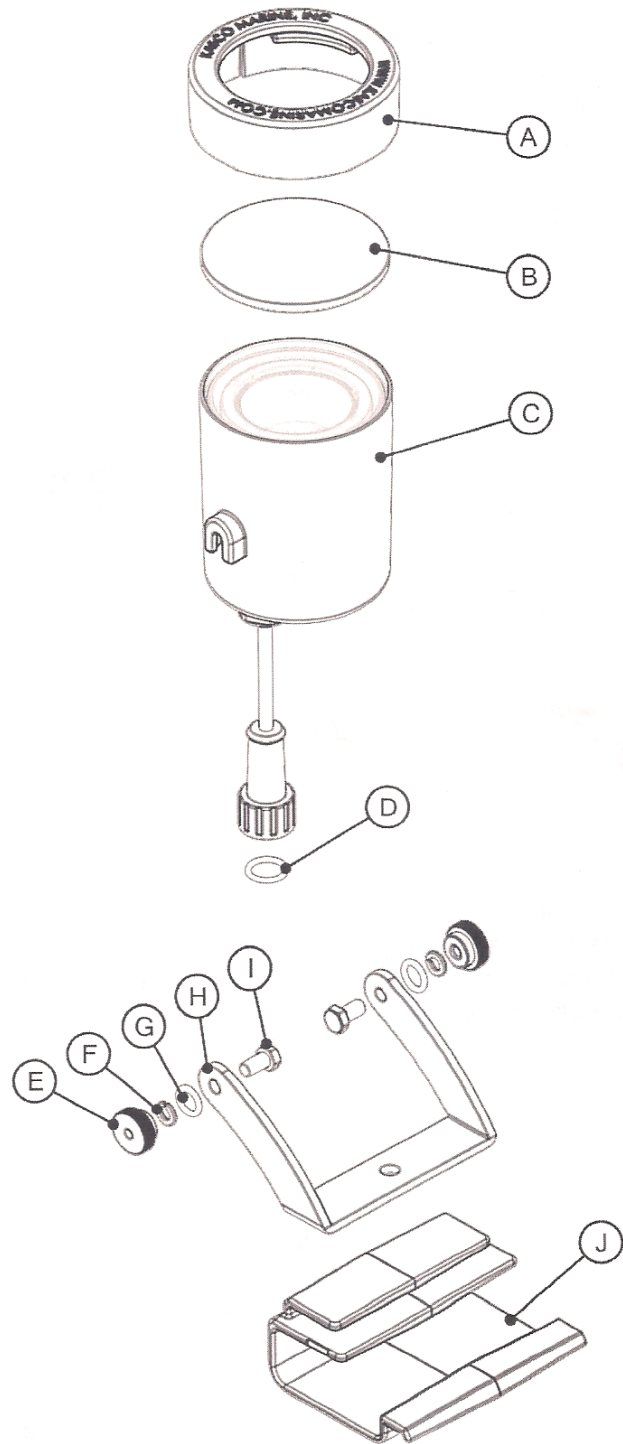
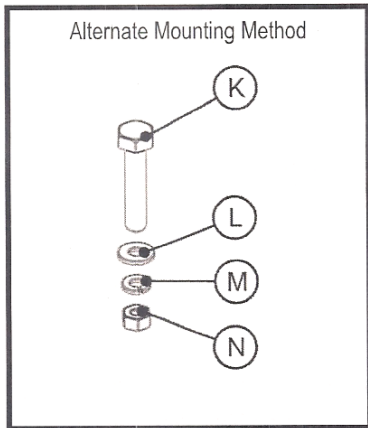
Warranty Claim Procedure: The best method for establishing warranty period is by keeping your original receipt and registering the equipment online at kascomarine.com under the Warranty Information section.

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.

Parts Included

| ID | Description | Qty* | PartNo |
|----|-----------------------------|------|--------|
| 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 | 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 A-N for 6-light kit



Troubleshooting Tips

Below are some helpful troubleshooting tips. If a problem occurs, please double check the assembly and installation instructions as well as the instructions for the proper control panel. More troubleshooting tips can be found at www.kascomarine.com

"My Fountain trips the ground fault interrupter in the C-25, C-85, or C-95."

This is the most common symptom of several possible problems. To correctly diagnose the problem, you will need to collect more information. A Ground Fault Interrupter (GFI) breaker that trips can indicate an electrical service problem, water contamination in the unit and/or cord, bad breaker, control box problems, motor problems, etc. Try to find out the answers to these questions before you contact Kasco to narrow down the problem.

- How long does it take to trip the breaker?
- Does it always take the same amount of time to trip?
- How many times has it tripped?
- Has there been any electrical problems in the area recently?

"My Fountain seems to run slowly."

This can also be a symptom of several possible problems. There could be an electrical problem where the unit is not getting the proper voltage. This could also indicate a problem with the motor of the unit, which needs to be looked at by an Authorized Repair Center. Check that the unit is receiving the proper voltage, and, if so, contact Kasco for further steps.

"My Fountain hums, but will not start. When I spin the prop with a stick, it starts up."

This indicated a problem with the Starting Capacitor. Each Kasco Fountain is equipped with a Starting Capacitor to get the unit going when it is first plugged in. If it is operating, but not spinning and can be started by spinning the prop with a stick, the Starting capacitor needs to be replaced by an Authorized Repair Center.

"My Fountain turns itself off and back on without the timer and without tripping the GFI breaker."

Each Kasco Fountain has a Thermal Overload built in that will turn the unit off when it overheats. Once the unit has cooled down, it will start back up. If

you are noticing these symptoms, the unit should be unplugged immediately because the Thermal Overload will continue to turn on and off until it burns out and damages the motor. The unit should be unplugged and taken out of the water to find the cause of the problem. The problem could be one of many, such as, low water levels, build-up on the unit to prevent heat dissipation, something inhibiting the free rotation of the shaft, etc. If something is caught in the unit or there is a build-up of algae, calcium or organic matter on the unit, remove the debris and, if caught early enough, the unit should be fine. Contact a Kasco representative before restarting the unit.

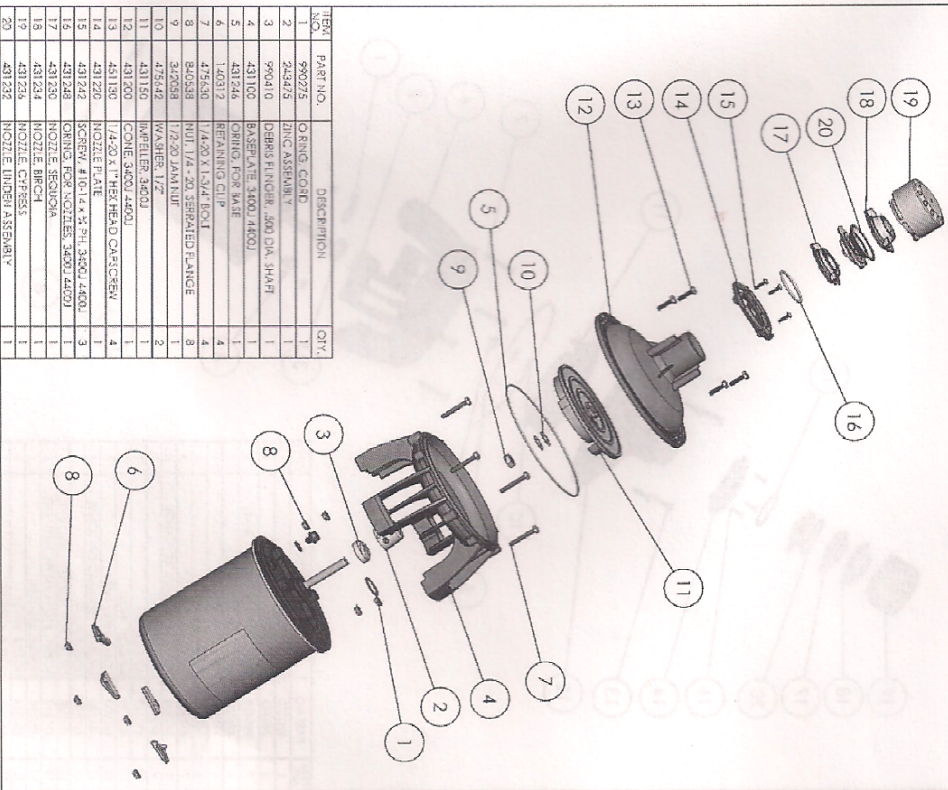
"My Fountain flow seems to fluctuate and/or be less than usual."

This can occur because of a few different reasons. Most of the time, this symptom is caused from unit being clogged with debris. A mat of weeds, many leaves, plastic bags, etc. can clog up the unit and cause it to be starved of water. If the unit does not have the proper amount of water, the flow or pattern will fluctuate up and down and look sporadic. If you are seeing these symptoms, unplug the unit and clean away the debris that is clogging up the screen. Another possibility, if these symptoms are noticed, is a chipped or damaged prop that is causing the unit to wobble and not pump properly. When the unit is unplugged, check the prop for damages and replace if damage is found.

"The GFI breaker trips randomly and sporadically. Sometimes it is a few hours of operation, other times it can be days or weeks."

This is referred to as a Nuisance Trip. This usually occurs where the unit is installed a great distance from the initial electric service on the property where the ground stake is placed. It is caused by either induced current in the ground wire or a base voltage difference due to soil pH levels. To resolve the problem, contact an electrician and install a local grounding stake. This may eliminate the induced current and any base voltage differences. This problem can also be caused by a bad breaker or receptacle or having unbalanced incoming voltage lines.

3400J REPLACEMENT PARTS



| ITEM NO. | PART NO. | DESCRIPTION | QTY. |
|----------|----------|------------------------------------|------|
| 1 | 990275 | O-RING, COOL | 1 |
| 2 | 249475 | ZINC ASSEMBLY | 1 |
| 3 | 990410 | DEBRIS FILTER, .500 DIA. PART | 1 |
| 4 | 431702 | BASE PLATE, 3400J (400) | 1 |
| 5 | 431744 | GRIND FOR SHAFT | 1 |
| 6 | 140312 | REPAIRING CUP | 4 |
| 7 | 475530 | 1/4-20 X 1.564" LOCK | 4 |
| 8 | 840538 | NUT, 1/4-20, SPRING PLATE RANGE | 2 |
| 9 | 340258 | 1/2-20 JAWBOLT | 2 |
| 10 | 475442 | WASHER, 1/2" | 2 |
| 11 | 431750 | IMPELLER, 3400J | 1 |
| 12 | 431700 | COVER, 3400J (400) | 1 |
| 13 | 431720 | 1/4-20 X 1" HEX HEAD CAPSCREW | 4 |
| 14 | 431720 | NOZZLE PLATE | 1 |
| 15 | 431742 | SCREW, #10-14 X 3/16", 3400J (400) | 3 |
| 16 | 431748 | ORING, FOR NOZZLES, 3400J (400) | 1 |
| 17 | 431730 | NOZZLE, SECURIA | 1 |
| 18 | 431734 | NOZZLE, BRCH | 1 |
| 19 | 431738 | NOZZLE, CYPRUS | 1 |
| 20 | 431739 | NOZZLE, UNDER ASSEMBLY | 1 |

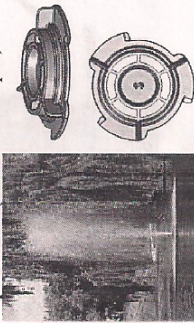
Nozzle Options

NOTE: Pattern sizes listed are approximate. Variations in voltage caused by regional electrical differences or voltage drop due to long power cords may result in reduced pattern sizes.

To install, place oring around outlet and simply twist the nozzle into the 3 locking tabs.

Sequoia Display:

The Sequoia nozzle (marked S on the part)



| Model | Height | Width |
|------------|--------|-------|
| 3400JF/HJF | 13" | 8" |
| 4400JF/HJF | 18" | 11" |

Linden Display:

The Linden nozzle (2 piece assembly with bolt)



| Model | Height | Width |
|------------|--------|-------|
| 3400JF/HJF | 9" | 29" |
| 4400JF/HJF | 12" | 31" |

Cypress Display:

The Cypress nozzle (marked C on part)



| Model | Height | Width |
|------------|--------|-------|
| 3400JF/HJF | 7' | 17' |
| 4400JF/HJF | 9' | 28' |

Birch Display:

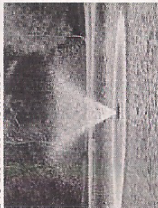
The Birch nozzle (marked B on the part)



| Model | Height | Width |
|------------|--------|-------|
| 3400JF/HJF | 7' | 5' |
| 4400JF/HJF | 11' | 8' |

Willow Display:

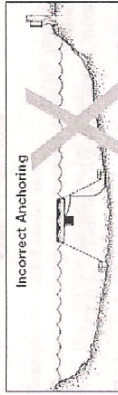
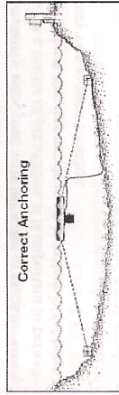
No nozzle installed



| Model | Height | Width |
|------------|--------|-------|
| 3400JF/HJF | 6.5' | 21' |
| 4400JF/HJF | 9' | 31' |

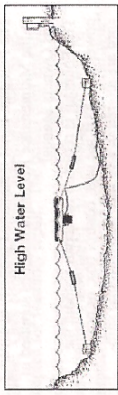
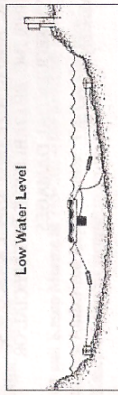
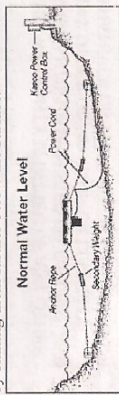
Installation Instructions

Use the ropes to position the Fountain in the desired location in the pond/lake. Anchor the ropes or secure them to the shoreline so the ropes are free of slack, but not tight. To prevent twisting of the unit due to torque, you should place the anchor at least 3 feet from the float for each foot of depth (Ex. A 6 foot deep pond would require an anchor 18 feet horizontally from the float.)



ALTERNATE INSTALLATION

In ponds where the water level fluctuates significantly, you may need to suspend a small weight (12" of 1" galvanized pipe works well) at the mid-point of the rope to take up any slack as the water level drops. The weight should be light enough so the Fountain can rise as the water level rises. This can also help hide ropes by sinking them further below the surface.



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 reduce the need for more costly repair work.

PROPER INSTALLATION: Proper installation of Kasco equipment will include a power source with ground fault interruption (GFI). For Fountain models, the C-25 control (120V) or C-85 (240/208V) included with the unit have built-in ground fault interruption that is sufficient. Ground fault interrupters are a safety feature that can also alert you to electrical leaks in the equipment. It is extremely important to test the GFI upon installation, each reinstallation, and monthly thereafter to ensure proper operation. If you have repeat, consistent trips on your ground fault, the equipment should be disconnected and removed from the water. The power cord should be inspected for damage and you should call Kasco Marine at 715-262-4488 for further instructions or email Kasco at sales@kascmarine.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 for any material that may have clogged the system or wrapped around the shaft of the motor, especially plastic bags and fishing line. Even though Kasco Aerators and Fountains are among the most clog-resistant on the market, it is impossible to protect against all items that can clog equipment and still maintain a flow of water. These materials can be very damaging to the equipment under continued operation and must be removed as soon as possible. ALWAYS UNPLUG THE UNIT BEFORE ATTEMPTING TO REMOVE CLOGS.

WINTER STORAGE: In regions where there is significant freezing in the wintertime, the fountains should be removed from the water to protect them from the expansion pressure of the ice. In many areas,

Caution—Proper maintenance required for warranty coverage.

Please do your part. Keep your unit clean and maintained to provide years of trouble-free service and keep your warranty intact. If it is determined that the unit has not been cared for properly as per our Maintenance Recommendations and Warranty Policy supplied with your Owner's Manual, your coverage may be forfeit.

Regular cleaning: Aerators 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). The motor housing is the surface that dissipates 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.

Inspect your zinc anode frequently. The anode is sacrificial and protects your unit from corrosion and electrolysis. Replace if half the original size or white in color. Corrosion from electrolysis is more commonly associated with saltwater or brackish water, but as a matter of precaution, it is important to periodically check the zinc anode in all installations.