



# Owners Manual

## Aerator & Circulators



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Thanks!

We at Kasco Marine, Inc. would like to both thank and congratulate you on your purchase of the Pond Aerator or Water Circulator model. We appreciate you choosing Kasco and for your purchase. Your decision to purchase Kasco's Pond Aerator or Water Circulator will not disappoint you. The Pond Aerator or Water Circulator will be a great addition to your body of water. It will help improve the water quality by adding much needed oxygen and circulation. We thank you for choosing Kasco for your aeration needs and want you to be completely satisfied with your purchase.

### Important Safety Instructions

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 ETL approved to UL and CSA standards for safety in water. However, it is NEVER recommended to enter the water with the equipment in operation.
- Caution should be used when dealing with any electrical and/or moving equipment.
- NEVER run the unit out of water. It will damage the seals and create a dangerous situation for the operator.
- Extreme caution should be used around water, especially cold water, such as in Spring, Fall, and Winter, which poses a hazard in and of itself.
- NEVER lift or drag the pond aerator or water circulator by the power cord. If you need to pull the unit to the side of the pond, use the anchoring ropes.
- Do not use waders in deep ponds/lakes or ponds/lakes with drop-offs, drastic slopes, or soft bottom material.
- Do not use boats that tip easily for aerator installation, such as a canoe, and follow all boating safety rules and regulations, including wearing a PFD (Personal Flotation Device).
- The Pond Aerator or Water Circulator is supplied with an internal grounding conductor and a grounding-type attachment plug. To reduce the risk of electrical shock, be certain that the pond

aerator or water circulator is plugged into a GFI protected circuit or the optional C-25 Control Box (120V), C-85 Control Panel (240/208V), or C-95 (240/208V) supplied by Kasco and that the C-25 is plugged or wired into a properly grounded, grounding type receptacle or the C-85 or C-95 is wired properly.

## General Owner's Instructions

### INSPECT THE SHIPMENT

Immediately inspect your Kasco Aerator shipment for any visible damages. Also cross reference the parts supplied with the Parts Included sheet to check for shortages. Shortages should be reported immediately to your Kasco Marine distributor or representative and damages reported to your carrier and Kasco Marine.

### CAUTION

**WARNING:** Under NO circumstances should anyone enter the water with the unit in operation. Always operate the unit in the water and keep people and objects clear of the propeller. Do not lift or pull the unit by the electrical cord. Always use extreme caution around electrical equipment and water situations.

### ASSEMBLY & INSTALLATION

Please see the proper Assembly and Installation Instructions enclosed in this manual. Each is specific for your model and size of Aerator. Note: It is extremely important to test the GFI breaker in the control panel upon each installation/reinstallation of the unit to ensure proper functioning.

### WARRANTY

Kasco Aerators are the result of over 35 years of design and engineering. Kasco products are built to withstand the toughest conditions. Kasco Marine backs each Pond Aerator and Water Circulator with a 2 Year Warranty or 3 Year Warranty depending on the model. This warranty covers any and all manufacturers defects within the warranty period from the date of purchase (See Warranty, Warranty Claim, & Return Policy). Please register your Aerator online at: [www.kascomarine.com](http://www.kascomarine.com) (under the technical tab)

### USE AND OPERATION

Kasco Aerators are designed and engineered for continuous duty, such as on fish farms or other aquaculture applications, or on-demand use, as needed in a

recreational water feature.

During flotation operation, the water is pulled from 360° around the unit and from below the unit. The water is pulled upward and thrust through the flotation collar into the air.

Your Kasco Marine Aerator is ready for immediate use (after installation). The motor and ball bearings are submerged in oil and no further lubrication is needed. Make sure to keep the motor housing clean from hard water deposits and/or algae. (See Maintenance Recommendations on page 19.)

It is extremely important that proper and sufficient voltage (120V or 240/208V) is supplied to the pond aerator or water circulator motor. Each Pond Aerator or Water Circulator can be used in conjunction with an optional C-25 Control Box (120V), C-85 Control Panel (240/208V), or C-95 Control Panel (240/208V). See page 16 for C-25 Instructions, page 17 for C-85, and page 18 for C95 Instructions.

Kasco Pond Aerators and Water Circulators are lightweight, energy efficient, and easy to install and operate. We strive to produce products that exceed customer expectations. We hope you enjoy your Kasco Pond Aerator or Water Circulator.

### Unit Specs

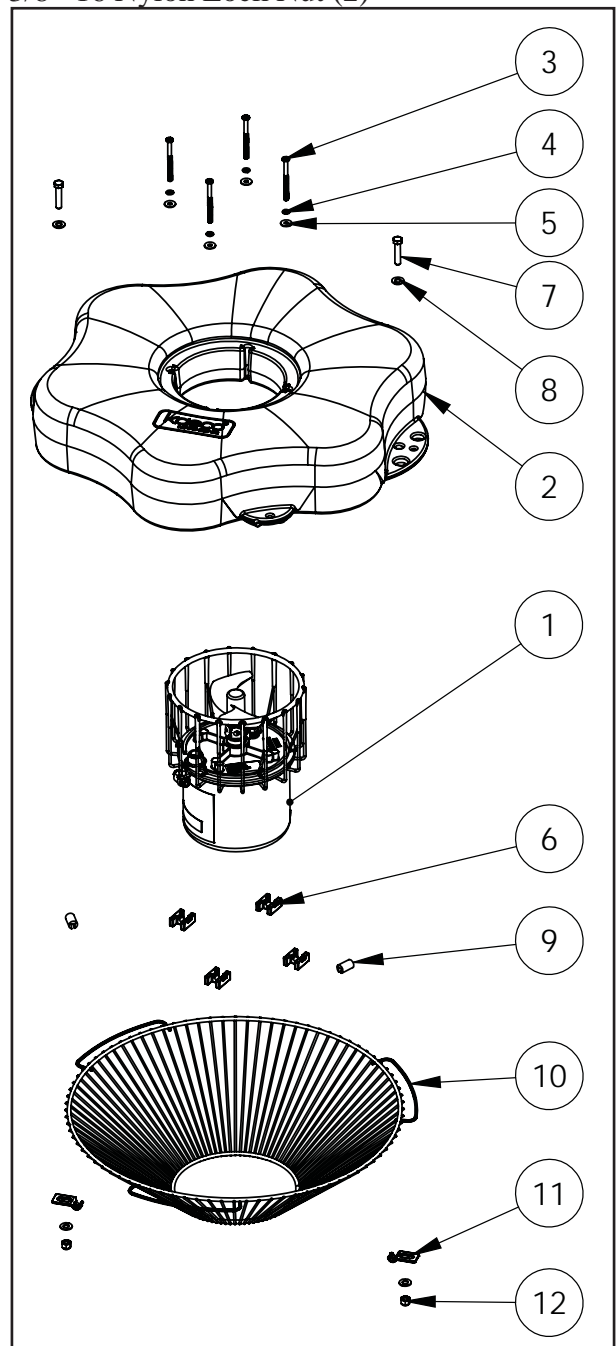
Model	Voltage	Operating amps	lock rotor amps
2400AF	110-120	5 @ 120V	12@120V
3400AF	110-120	6.7 @ 120V	18@120V
3400HAF	208-240	3.4 @ 240V	9@240V
4400AF	110-120	11.3@120V	40@120V
4400HAF	208-240	5.7@240V	20@240V
8400AF	208-240	9.0 @ 240V	40@240V
3.1AF	208-240	10.7 @ 240V	63@240V
5.1AF	208-240	18 @ 240V	97@240V
2400CF	110-120	5@120V	12@120V
3400CF	110-120	6.7@120V	18@120V
3400HCF	208-240	3.4@240V	9@240V
4400CF	110-120	11.3@120V	40@120V
4400HCF	208-240	5.7@240V	20@240V
8400CF	208-240	9.0@240V	40@240V

2400AF, 3400AF/HAF, 4400AF/HAF Parts Included:

1. Aerator (Unit with cord or unit with Disconnect)(1)
2. Float (with two 50' mooring ropes attached) (1)
3. 1/4"-20 x 3 1/2" Phillips Pan Head Screw (4)
4. 1/4" split washers (4)
5. 1/4" (3/4" outer diameter) Flat Washer (4)
6. Float Retaining Clips (4)

Optional: (bottom screen installation parts)

7. 3/8"-16 x 1-3/8" Hex Head Bolt (2)
8. 3/8" Flat Washer (4)
9. Bottom Screen cushions (3)
10. Bottom Screen (1)
11. Bottom Screen Clips (2)
12. 3/8"-16 Nylon Lock Nut (2)



### Optional Equipment

- Control Box (C-25 for 120V units or C-85 for 240V units in separate box) (1 - optional)
- Bottom Screen with Hardware for Small Float Ring (1 - optional)

NOTE: Extra hardware may be included.

### POND AERATOR TOOLS & SUPPLIES NEEDED

- Anchors or stakes for installing unit (2 or 3 depending on unit)
- # 2 Phillips head screw driver
- Two (or 3 depending on model) 12" pieces of 1" galvanized pipe for weighting ropes (optional)
- #10 x 1" long or longer screw(s) for mounting the optional C-25 (3) or C-85 (4)
- 9/16" Socket and Ratchet (for optional bottom screen)
- 9/16" Wrench (for optional bottom screen)
- Nylon Tie for cord

### 2400AF, 3400AF/HAF, 4400AF/HAF Assembly

#### STEP ONE

Make sure you have all the parts needed. If any shortages are found, contact your Kasco representative immediately.

#### STEP TWO

Set motor housing upright (stainless steel can down) on a flat surface. With motor housing upright, slide Float (Part 2) over pump housing making sure the surface with the Kasco logo is up.



Rest the float on the cage top ring.

#### STEP THREE

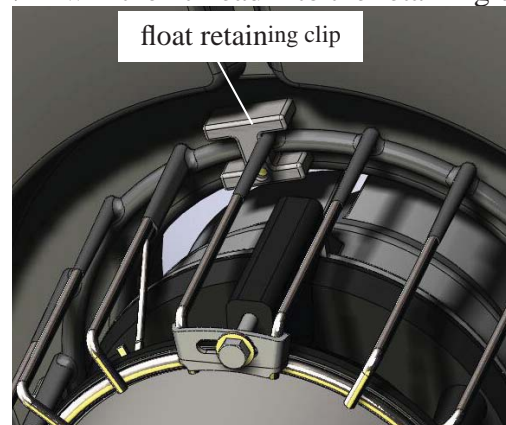
Ensure correct alignment by twisting the float gently around the motor housing until the power cord guide lines up with the cord. See diagram of bottom side of float.



#### STEP FOUR

Use one of the 1/4"-20 x 3-1/2" Phillips Pan Head Screws (Part 3), one 1/4" split washer (Part 4), and a 1/4" Flat Washer (Part 5) to secure the float. Make sure the split washer goes between the bolt head and the flat washer. Insert screw with washer through bolt hole in float

Use one float retaining clip (Part 6) under the top ring of the cage. There is a U-shaped indent in the clip that will fit snug against the top ring of the cage. The 1/4"-20 x 3-1/2" will then thread into the retaining clip.

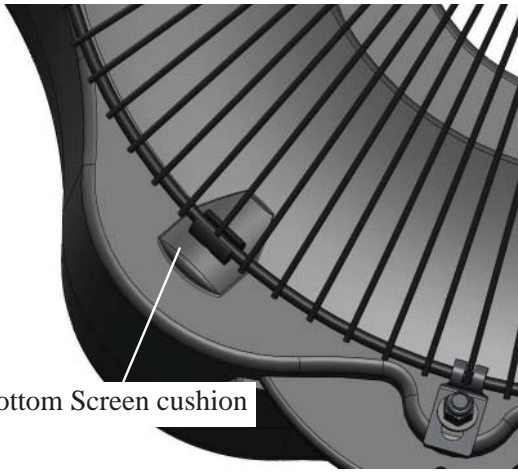


Tighten until snug with a Phillips Head screw driver and repeat for 3 remaining screws.



#### STEP FIVE (optional bottom screen)

Turn secured assembly upside down so the top of the float (logo side) is face down on the flat surface. Place Bottom Screen (Part 10) onto the bottom side of the float. Make sure the wide opening of the screen is against the float and the 3 handles on the screen do not interfere with the rope placements. Fit the 3 Bottom Screen cushion (Part 9) underneath the screen and on top of the 3 spacing bumps on the bottom of the float.



Bottom Screen cushion



#### STEP EIGHT(optional)

Thread one rope through one Pipe Weight and position it approximately 6' from the float. Next, thread the end of the rope back through the opening facing the float (as shown). Repeat with the second rope and weight. If ready to install in the pond, go to Installation instructions. Light Kits can also be installed at this time, go to Light kit instructions.



#### STEP SIX (optional bottom screen)

Using a stainless steel Bottom Screen Clip (Part 11), 3/8"-16 x 1-3/8" Bolt (Part 7), two 3/8" Flat Washer (Part 8), and 3/8"-16 Nylon Lock Nut (Part 12) to secure the screen to the float. Align a clip so the two prongs straddle a wire on the screen. Insert bolt with washer so the top of the bolt is facing the top of float (now in down position). Place the second washer and the locking nut with nylon insert on the end of the bolt and tighten using the 9/16" (14mm) Socket and Ratchet on the nut end and the 9/16" (14mm) Wrench on the bolt end. Tighten until snug and repeat with remaining clip.



#### STEP SEVEN

Turn the assembly upright again. At this time, if the cord contains a metal strain relief, you can use the chain connector and attach it in one of the opening at the rope placement. The chain connector will easily fit if installed from the bottom or top side of the opening. It will not fit if installed from side of opening. Use the Nylon Cable Tie included to secure the power cord to a molded hole in the float to prevent cord damage if there is no strain relief on the cord. If a Strain Relief is present on the cord, you may disregard the Nylon Tie. On cords with a Quick Disconnect, the disconnect should be tightened properly to avoid leaking. If installing a new Quick Disconnect, refer to Quick Disconnect Instructions.

## 8400AF, 3.1AF, 5.1AF Parts

#### POND AERATOR PARTS INCLUDED

Aerator Unit with cord (Cord may be shipped separately)  
(1)

#### B. Large Float Ring

1. Float Sections (3)
2. Top Float Bracket (3)
3. Bottom Float Bracket w/Rope (3)
4. 9" x 3/8" Bolt (6)
5. 3/8" Lock Nut (6)
6. Unit Mounting Bracket (3)
7. 1/4" x 3/4" Bolt (9)
8. 1/4" Lock Washer (9)
9. 1/4" Nut (3)
10. Bottom Screen Clip (3 - optional)
11. Bottom Screen (1 - optional)

#### Optional Equipment

C. Control Box (C-25 for 120V units in Float box or C-85 for 240V units in separate box) (1 - optional)

D. Bottom Screen with Hardware for Small Float Ring (1 - optional)

NOTE: Extra hardware may be included.

#### POND AERATOR TOOLS & SUPPLIES NEEDED

- Anchors or stakes for installing unit (3)
- Philips head screw driver for mounting optional control panel

- 120V or 240V Electrical Supply near pond on a post
- Three 12" pieces of 1" galvanized pipe for weighting ropes (optional)
- #10 x 1" long or longer screw(s) for mounting the optional C-25 (3) or C-85/95 (4)
- 9/16" & 7/16" Nut Driver
- 9/16" & 7/16" Socket
- Adjustable crescent wrench
- Nylon Tie for cord

## 8400AF, 3.1AF, 5.1AF Assembly

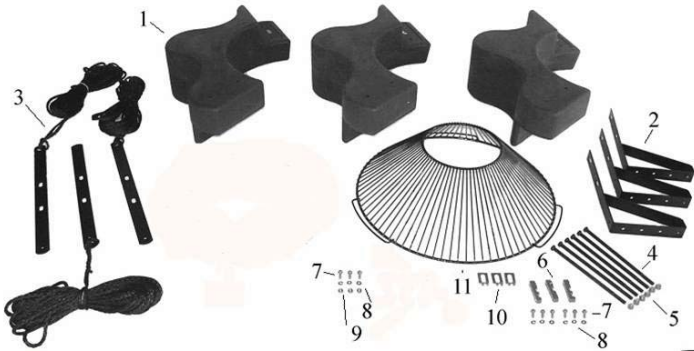
### STEP ONE

Remove all contents from package and place on a clean, flat surface. Inspect the shipment for any damages. If damages are found, immediately notify your carrier and your Kasco Marine, Inc. representative. Next, cross reference the parts included in the shipment with the Parts Included sheet in this manual on page 4 and 5. Make sure you have all the parts needed. If any shortages are found, contact your Kasco representative immediately.

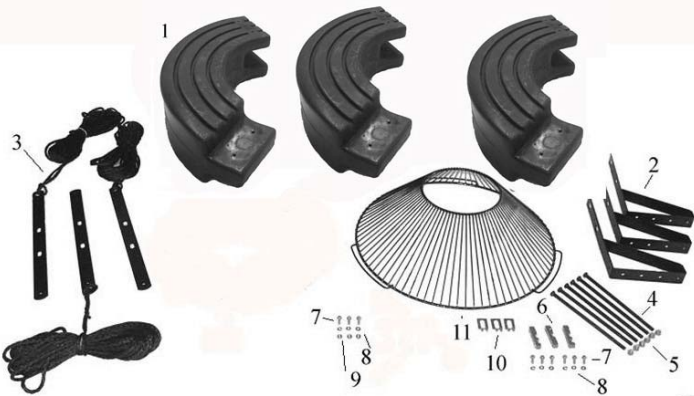
### STEP TWO

Arrange the three Float Sections (Part #B1) upright (plug on bottom) so the overlap of one section aligns with the next section and loosely push the three sections together to form a continuous ring.

#### 8400AF



#### 3.1AF, 5.1AF



Float up

Float down  
(plug)



#### 3.1AF, 5.1AF



Note: Extra hardware may be included.

### Tools & Supplies Needed:

- A. Anchors or stakes for installing unit (2 or 3 depending on unit)
  - B. 208-240V Electrical Supply near pond on a post
  - C. Two (or 3 depending on model) 30cm pieces of 2.54cm galvanized pipe for weighting ropes (optional)
  - D. 9/16"(14mm) & 7/16" (11mm) Nut Driver
  - E. 9/16" (14mm) & 7/16" (11mm) Socket
- Adjustable crescent wrench

### STEP THREE

Position one Top Float Bracket (Part #B2) so that the bolt holes in the bracket align with the bolt holes in the two adjoined float sections and insert two 9" Coated Bolts (Part #B4) through the assembly. This may

require some minor repositioning of the float sections as you push the bolt all the way through. Do not force the bolt through. Repeat for the remaining two joints.



#### STEP FOUR

Turn the assembly upside down and place the Bottom Float Brackets (Part #B3) over the bolts, the ends of which should now be extending through the assembly. Loosely install the six 3/8" Lock Nuts (Part #B5) on the ends of the bolts (do not tighten yet). Connect the Top and Bottom Float Brackets using three 1/4" x 3/4" Bolts (Part #B7) with three 1/4" Lock Washers (Part #B8) and three 1/4" Nuts (Part #B9) and tighten using the 7/16" wrench and socket.



#### STEP FIVE

Attach the Unit Mounting Brackets (Part #B6) loosely to the float bracket with (3) 1/4" x 3/4" bolts and 1/4" Lock Washers in the top mounting hole as shown



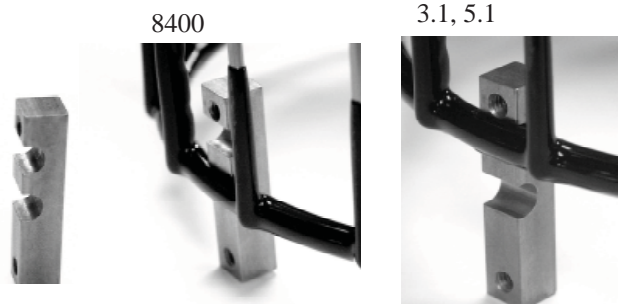
#### STEP SIX

If the optional Bottom Screen (Part#B11) was purchased, place the Aerator Assembly inside the bottom Screen as shown.



#### STEP SEVEN

Lift Float Assembly and place over Aerator Assembly. Adjust one unit Mounting Bracket at a time and nest the cage ring in the lower notch of the Unit Mounting Bracket for the 3.1, and 5.1 units. Nest the cage ring in the middle notch of the Unit Mounting Bracket for the 8400.



#### STEP EIGHT

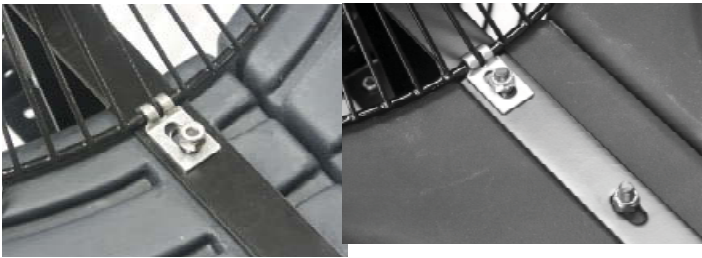
Once all three Unit Mounting Brackets are seated correctly on the cage ring, add remaining 1/4" x 3/4" Bolts and 1/4" Lock Washers to lower mounting hole. Tighten all bolts on the Unit Mounting Bracket with 7/16" socket or wrench.



#### STEP NINE

(Optional Bottom Screen)

Raise the Bottom Screen and secure with Bottom Screen clips. Remove the center three 3/8" Lock Nuts from the 9" Bolts and place the Bottom Screen Clips (Part #B10) over the bolts as shown. The power cord can be slid under the bottom screen between the float and screen where two float sections come together before the 3/8" Lock Nuts are replaced. Replace the three inside Lock Nuts and tighten all 3/8" Lock Nuts using the 9/16" wrench and socket.



*Note: Extra hardware may be included*

### STEP TEN

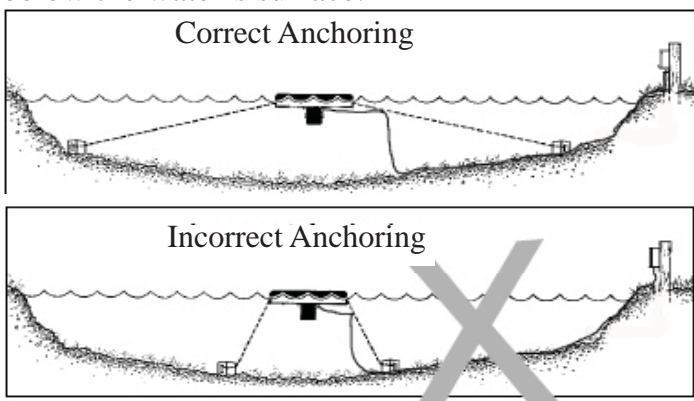
The user supplied power cord should now be attached to the stub cord by lining up the male and female halves of the disconnect and hand tightening the blue collar. On these cords, the Additional Strain Relief should be attached to one of the lower float brackets. If there is not a Strain Relief, use the Nylon Cable Tie provided to secure the cord to a rope to prevent damage by the propeller. If installing a new Quick Disconnect, please refer to Quick Disconnect instructions.

## Installation Instructions

### STEP ONE

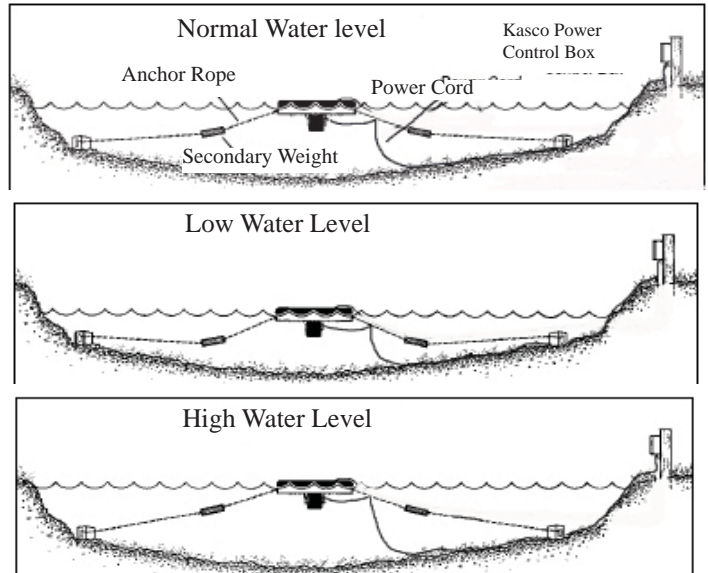
Use the ropes to position the Aerator in the desired location in the pond/lake. Anchor the ropes or secure them to the shoreline so the ropes are free of slack, but not tight. To prevent twisting of the unit due to torque, you should place the anchor at least 3 feet from the float for each foot of depth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

For ease of removal, you may choose to keep at least one anchor within reach from shore, just below the water's surface.



### STEP TWO (ALTERNATE INSTALLATION)

In ponds where the water level fluctuates significantly, you may need to suspend a small weight (12" of 1" galvanize 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 Aerator can rise as the water level rises. This can also help hide ropes by sinking them further below the surface.



### STEP THREE

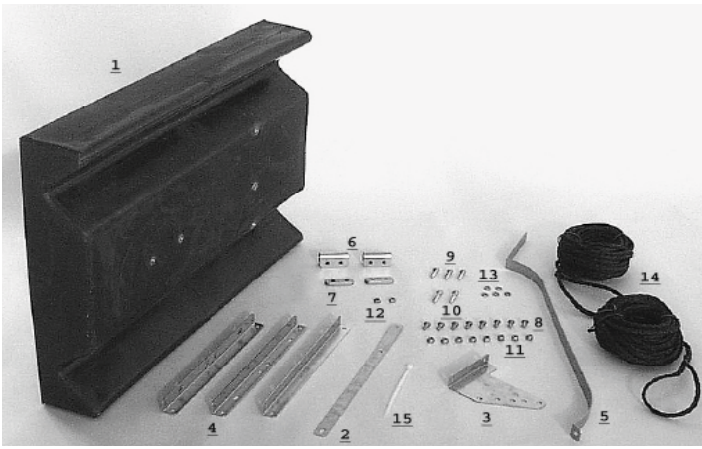
At this time the Aerator is ready for operation. It can be plugged into the power supply at the pond edge. ENJOY YOUR NEW KASCO EQUIPMENT!

## Circulator Parts (CF Models)

Circulator (Unit with cord or stub cord) (1)

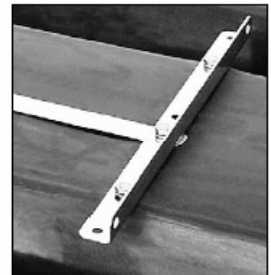
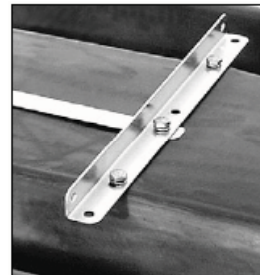
Float in separate box (1)

1. Float (1)
2. Base Strap (1)
3. Adjustment Bracket (1)
4. Angle Bracket (3)
5. Draw Band (1)
6. U-Bracket (2)
7. Spacer Bracket (2)
8. 1/4" x 1/2" Stainless Steel Bolt (8)
9. 1/4" x 1" Stainless Steel Bolt (3)
10. 1/4" x 1-1/4" Stainless Steel Bolt (2)
11. 1/4" Stainless Steel Lock Nut (8)
12. 1/4" Stainless Steel Hex Nut (2)
13. 1/4" Stainless Steel Lock Washer (5)
14. 50' Black Nylon Ropes (2)
15. Nylon Tie (1)



#### STEP FOUR

Place one of the three Angle Brackets (Part B4) perpendicular to the Base Strap at the front end of the Base Strap. One of the two center holes of the Angle Bracket should be positioned over the hole in the Base Strap and the threaded hole in the Float. Secure the Angle Bracket to the Float using three 1/4" x 1/2" Stainless Steel Bolts and three Stainless Steel Lock Washers. (See photos in the next column for specific instructions based on the size circulator purchased.) Tighten all hardware at this time with the 7/16" (11mm) socket and wrench.



Models 2400  
& 3400 - Angle  
posterior to bolts.

Model 8400  
& 4400 Angle  
anterior to bolts.

#### Circulator Tools & Supplies Needed

- A. Anchors or stakes for installing unit (2)
- B. 120V or 240V Electrical Supply near pond on a post (1)
- C. 12" pieces of 1" galvanized pipe for weighting ropes (optional) (2)
- D. 9/16" (14mm) & 7/16" (11mm) Nut Driver
- E. 9/16" (14mm) & 7/16" (11mm) Socket
- F. Adjustable crescent wrench
- G. 7/16" Wrench (1)
- H. 7/16" Socket & Wrench (1)
- I. Felt-tip marker (1)

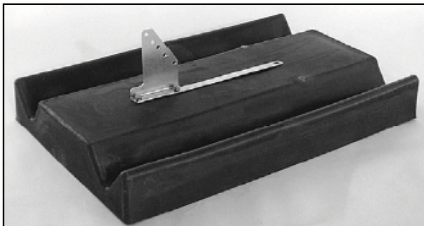
#### Circulator (CF Model) Assembly

##### STEP ONE

Remove all contents from package and place on a clean, flat surface. Inspect the shipment for any damages. Make sure you have all the parts needed.

##### STEP TWO

Position the Float (Part B1) upside down (lengthwise channels facing up) and place the Base Strap (Part B2) so the three holes in the Base Strap align with the three threaded holes that comprise the lengthwise midline of the Float.



##### STEP THREE

Position the Adjustment Bracket (Part B3) over the two holes at the back end of the Float and Base Strap. Loosely secure the Adjustment Bracket to the Float using two 1/4" x 1/2" (Part B8) Stainless Steel Bolts and two Stainless Steel Lock Washers (Part B13). (See photo above for orientation.)

#### STEP FIVE

With a felt-tip marker, draw three to four marks around the circumference of the motor housing at the appropriate measurement from the back (or bottom) of the motor housing given:

2400: 3/4" (1.9cm)

3400: 3-3/8" (8.57cm)

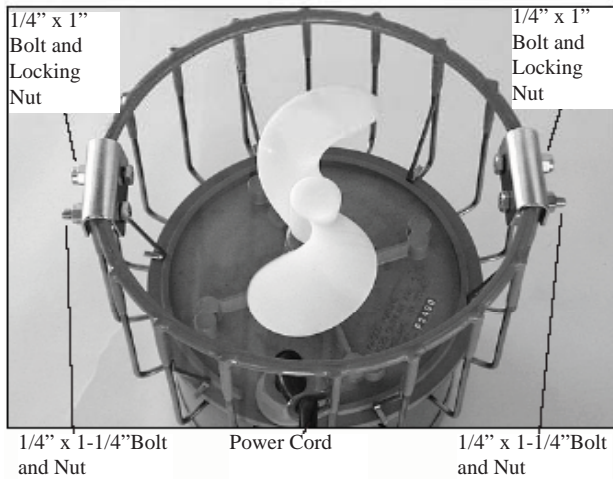
4400: 5-1/2" (14 cm)

8400: 7-1/2" (19 cm)



#### STEP SIX

Place the two U-Brackets (Part B6) directly across from each other (180°) over the top ring of the motor cage. The cord clamp on the cage should be 90° from each of the U-Brackets

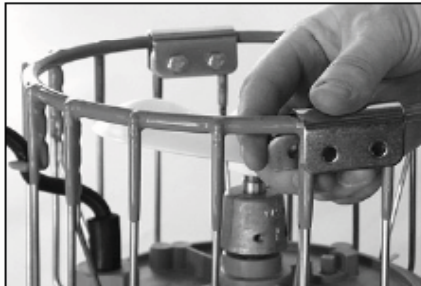


housing and position so that the back of the Draw Band touches the marks drawn in Step Five. There is no front or back to the Draw Band itself - it is reversible. Orient the arm of the Draw Band so it aligns with the cord clamp on the cage of the motor housing and is parallel to the Angle Brackets attached in Step Eight. Secure using a 1/4" x 1" Stainless Steel Bolt and a 1/4" Lock Nut. (See photo in next column)



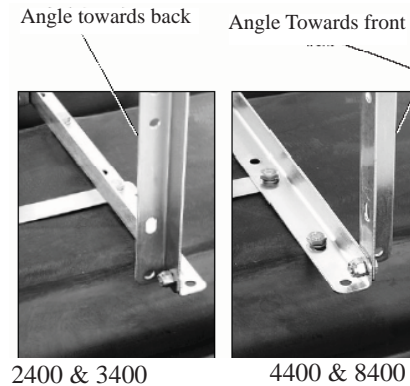
### STEP SEVEN

Insert the Spacer Bracket (Part B7) under the U-Bracket and inside the cage. Secure this assembly using one 1/4" x 1" Bolt (Part B9) and a 1/4" Lock Nut (Part B11), and one 1/4" x 1-1/4" Bolt (Part B10) and a 1/4" Hex Nut (Part B12). The longer bolt should be on the side of the U-Bracket that is closer to the cord clamp. Tighten the hardware using the 7/16" (11mm) wrench and socket & wrench until the U-Bracket clamps firmly around the cage (U-Bracket should pull together slightly). Repeat with the second U-Bracket.



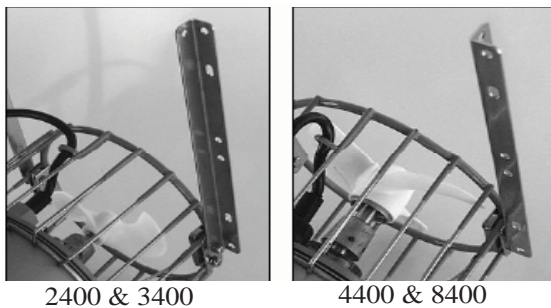
### STEP TEN

Attach the Angle Bracket on the motor to the Angle Bracket on the Float using two 1/4" x 1/2" Bolts and two 1/4" Lock Nuts (one set for each Bracket). See photos for orientation based on model size. Also, the cord clamp on the cage should be oriented toward the Float.



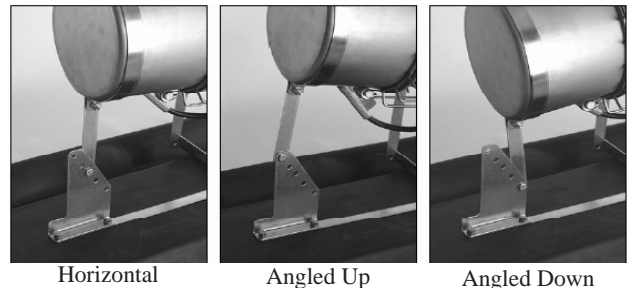
### STEP EIGHT

Attach an Angle Bracket to each of the longer (1-1/4") bolts on the U-Brackets (See photo for orientation) with a 1/4" Lock Nut.



### STEP ELEVEN

Attach the Draw Band on the motor to the Adjustment Bracket on the Float using a 1/4" x 1/2" Bolt and a 1/4" Lock Nut. Select one of the five possible positions to mount the Draw Band for your preferred direction of flow. We do not recommend the two outer (most upward and most downward) mounting positions for 8400 models.

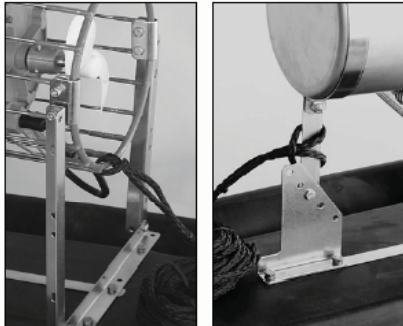


### STEP NINE

Wrap the Draw Band (Part B5) around the motor

### STEP TWELVE

Attach the Ropes to the front (on the cage) and back (around the Draw Band) of the motor. At this time, use the Nylon Tie provided to connect the power cord and front Rope to prevent the cord from tangling in the prop. Also, if the power cord has a Quick Disconnect and Additional Strain Relief install the Quick Disconnect and Strain Relief per instructions.




### STEP THIRTEEN

Float the circulator in the water and position where desired. Tie the front Rope to a stake on the shore or weight. If a weight is used sink weight in front of unit so rope is taught. (Circulators create great force, make sure weight is enough to prevent movement.) Tie back Rope to a stake on opposite shore or weight. Sink weight behind the unit so rope is taught. At this time take up any slack in the line.

### STEP FOURTEEN

You can now connect the Circulator into the RCD protected power source at the ponds edge.

### Maintenance Recommendations

 Under No Circumstances should anyone enter the water while a unit is operating. Turn Off and Disconnect electrical power prior to any Maintenance or Servicing

RCD (Residual Current Device) or GFCI are a safety feature that can also alert you to electrical leaks in the equipment. It is extremely important to test the RCD 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 a Kasco Marine distributor or representative for further instructions.

If the supply cord becomes damaged, it must be replaced by an authorized service center, or similarly qualified persons in order to avoid a hazard.

**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 & Circulators 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, Aerators should be removed from the water to protect them from the expansion pressure of the ice. In many areas, Aerators 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 0°C.

**CLEANING:** Equipment 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.

**SEAL AND OIL REPLACEMENT:** This is a sealed motor assembly and seals will wear out over time (similar to brake pads on a car). Replacement of the seals and a change of oil after three years may add longevity to the operation of the motor, saving you the cost of more expensive repairs. In warmer climates where the equipment runs most or all of the year, it is a good idea to replace seals more regularly than you would need to in colder climates where the unit is removed from the water for several months.

**ZINC ANODE:** A Sacrificial Zinc Anode is supplied on the shaft of all Kasco Aerators & Circulators for protection of the equipment from corrosion and electrolysis. The zinc anode should be replaced if reduced to half the original size or if 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 (at least every two to three months).

Seal replacement and all other repair services should be performed by Kasco Marine or a Kasco trained Authorized Repair Center. Please contact your Kasco Marine, Inc. distributor or representative for your nearest Authorized Repair Center.

## Warranty Policy

Warranty Period:

Models 2400AF, 2400CF, 3400AF, 3400CF, 3400HAF, 3400HCF, 4400AF, 4400CF, 4400HAF, 4400HCF - 2 year Warranty

Models 8400AF, 8400CF, 3.1AF, 5.1AF - 3 year Warranty

Kasco® Marine, Inc. warrants this Pond Aerator or Water Circulator to be free from defects in material or workmanship (except for the ropes, power cord, and propeller) 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. Customer shall pay shipping charges for returning the unit to Kasco or an Authorized Repair Center.

**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 Fountain is not maintained properly according to the Maintenance Recommendations supplied in this Owners Manual.
- The Fountain is returned for repair without the power cord or if the unit, control box, or power cord are altered in any way from original shipment. Cuts in the power cord are not covered under warranty.

- The fountain is not used with the supplied GFI control box.
- The Fountain is damaged by unauthorized tampering.
- The Sacrificial Zinc Anode around the propeller shaft shows significant deterioration. (The Anode must be inspected periodically and replaced if necessary.)

Warranty Claim Procedure:

Check the ten or eleven-digit serial number printed either on the black cover of the motor or on the blue nameplate and determine the year of manufacture according to the serial number scheme below:

Sample Serial # 70 01 A 8 1725

The first two digits represent the reverse of the last two digits of the year of manufacture.

Example: 70 = 2007 model year.

The third and fourth digits represent the week of the year. (Ex. "01" for 1st week in Jan.)

The best method for establishing warranty period is by the original receipt. Also, register the Fountain online at: [www.kascomarine.com](http://www.kascomarine.com) (Under the technical tab)

Once the warranty coverage has been established, the unit may be sent to any Kasco Authorized Repair Center for evaluation and repair. Please call Kasco Marine at 715-262-4488 prior to shipping to receive any updated information and/or Repair Form, then ship to:

Kasco Marine, Inc.

800 Deere Rd.

Prescott, WI 54021

Attn: Repairs

Or call Kasco Marine at 715-262-4488 to locate your nearest Authorized Repair Center. You can also email Kasco at [service@kascomarine.com](mailto:service@kascomarine.com).

Note: Only complete motor assemblies will be accepted for warranty repair. The power cord and all other components must be returned with the motor 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. Some parts are essential for structural support during shipping and others, such as the power cord, are essential to properly diagnose potential causes of failure. It is not necessary to return the control box, float, or nozzles with the motor assembly, unless specifically asked to by a Kasco representative.

Please include the Repair Form received from Kasco Marine or your local distributor with the ship-

ment. If no Repair Form is available, include your name and physical address for return delivery of the repaired unit 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 within the continental United States.

#### Other Repairs:

Most failed equipment can be repaired at substantially lower costs than replacement with new. Please ship according to the instructions in the previous section. Again, it is best to call ahead for updated information and/or Repair Form.

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. Estimate options are as follows:

We will contact the customer with a total after the unit has been evaluated, but before the work is performed. We will repair the unit only if repair costs are under a stated dollar amount. Example: "Please repair if total is under \$150.00 before shipping charges."

All estimates that are rejected for repair will be destroyed unless otherwise directed by the customer. If the customer would like the unit returned, the unit 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 repair at the customer's request.

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

## 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](http://www.kascomarine.com) (Under the

Technical tab)

*"My Aerator trips the ground fault interrupter in the 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 Aerator 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 Aerator 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 Aerator turns itself off and back on without the timer and without tripping the GFI breaker."*

Each Kasco unit 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 dissipa-

tion, something inhibiting the free rotation of the shaft, etc. If something is caught in the unit or there is a build-up 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 Aerator 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. A possible resolution to the problem, contact an electrician and install a local grounding stake. This may eliminate the induced current and any base voltage differences.

## Control Panel Installation

(for optional control panels)

### STEP ONE

Install the control panel (C-25 for 120V and C-85, C95 for 240/208V/) on the post with the power supply. Use the #10 x 1” long or longer screws and the screw placements on the control panel to secure the panel to the post. NOTE: The control panel must be hung upright in order to be rain tight.

### STEP TWO

Set Timer in the control panel to desired ON and OFF times per the Instructions for each specific timer. Make sure to test the GFI using the Test Button locat-

ed on the outlet before turning the equipment on and every 30 days thereafter.

### STEP THREE (For 120V Installations)

Plug the aerating fountain cord into the C-25 outlet labeled “UNIT”. If lights are included, plug the Transformer cord into the C-25 outlet labeled “LIGHT”. Now you are ready to plug the C-25 into the 120V power supply on the post and ENJOY YOUR NEW KASCO AERATING FOUNTAIN!

### STEP THREE (For 240V Installation)

Electrical Service wiring: To hardwire the 240V or 208V - 4 wire service (L1, L2, N, & G) to the C-85 or C-95 control panel please refer to the panel’s inner door label or the label printed in this manual. Follow all local and national electrical codes for this installation and Consult a qualified electrician or service person if needed.

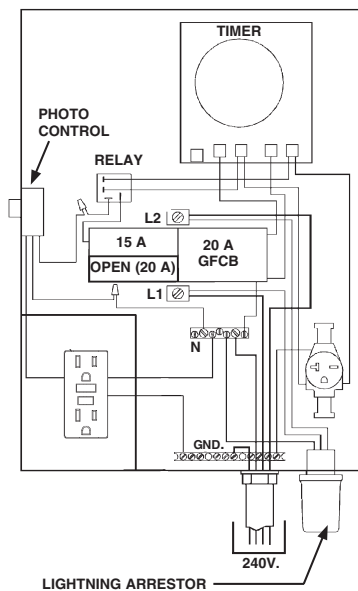
Hardwiring the Fountain: The bottom of the C-85 and C-95 control panels have several knock-outs that can be removed to hardwire the unit. Remove a knock-out that will not be used for the main power. Install a strain relief fitting to secure the fountains power cord, or you may need to install the power cord in a conduit if required. Consult your electrician.

For the C-95, use the terminal block near the bottom of the panel to hardwire the fountain. Refer to the C95 inner door label wiring diagram. The GREEN ground wire is attached to the left terminal, the WHITE wire is connected to the middle, and the BLACK wire is connected to the right terminal.

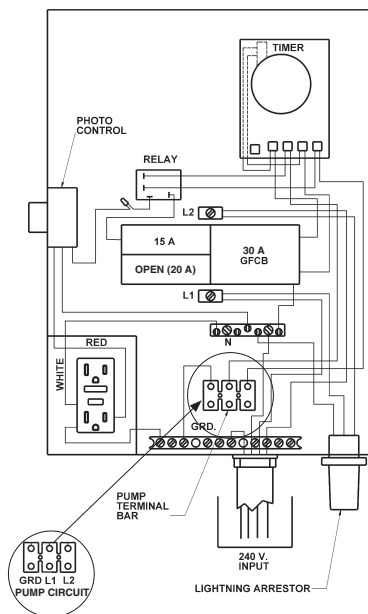
For the C-85, with the main power disconnected, connect the GREEN ground wire to the grounding strip at the bottom of the panel and secure tightly. Locate and remove the plastic shield on the yellow timer (black or clear depending on model). Under the shield, terminal #2 and #4 are LOAD terminals to supply power to the fountain. Loosen the screws and remove the existing wires that connect the external outlet on the side of the panel. Cap these wires off individually with wire nuts. This will disconnect the power from the outlet on the side of the panel. Insert the WHITE wire under the #2 terminal on the timer and the BLACK wire under the #4 terminal. Tighten both terminals securely. Replace the timer cover and the metal barrier plate in panel.

Test the GFCB with the test button now and every 30 days. If lights are installed, they can now be installed per Instructions included with the lights.

## C85



## C95



Once completed, power can be restored to the panel.  
Enjoy your new kasco aerating fountain!

## C-25 Timer Control Instructions (Optional Equipment)

Portable Timer with Ground Fault Interrupter  
(Unit: 9.8 FLA, 58.8 LRA 120 VAC  
Light: 300 W, 120 VAC)

### IMPORTANT

This portable timer is designed for CONTROLLING the connected equipment only. Unplug timer before servicing the unit or the equipment it controls. THE MANUAL OVERRIDE KNOB IS NOT TO BE USED AS A POWER DISCONNECT! For maximum protection against electri-

cal shock hazard, perform test procedure on G.F.C.I. at least once a month. Mount at least 5 ft. from open water.

### G.F.C.I. TEST PROCEDURE

The G.F.C.I. should be checked every month to make sure that it is operating properly. Just follow the simple instructions below. It is recommended to maintain a maintenance diary of your monthly safety check.

1. Push TEST button, RESET button should pop out from inner surface. This should result in power being OFF at the outlet protected by the G.F.C.I. Verify by plugging a test lamp into the outlet. Be sure the timer is in the ON position.
2. If the G.F.C.I. tests okay, restore power by pushing the RESET button back in. THE RESET BUTTON MUST BE PUSHED FIRMLY AND FULLY INTO PLACE UNTIL IT LOCKS AND RE-MAINS DEPRESSED AFTER PRES-SURE HAS BEEN REMOVED.

**DANGER: IF RESET BUTTON DOES NOT POP OUT, IF TEST LAMP REMAINS LIT WHEN RESET BUTTON DOES POP OUT, OR IF THE G.F.C.I. FAILS TO RE-SET PROPERLY, DO NOT USE TIMER! CONTACT A QUALIFIED SERVICE TECHNICIAN!**

Failure to use the C-25 with Kasco Fountains will void the warranty and cause the Fountain to not be listed to UL and CSA standards via ETL.

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

### TIMER-OPERATION INSTRUCTIONS

C-25 Control Box will turn the aerator/fountain ON & OFF with the TIMER. Kasco lights will turn ON with the PHOTO EYE and OFF with TIMER. C-25 Control Box is to be used with Kasco Approved Lights ONLY!

- Insert "ON" (GREEN) and "OFF" (RED) trippers into dial at desired ON and OFF times.
- Turn dial clockwise one or more revolutions until correct time-of-day (AM or PM) in window is aligned with the arrow.
- Plug aerator/fountain cord into the RIGHT hand outlet (labeled UNIT).
- Plug transformer light cord into LEFT hand outlet (labeled LIGHT).

### FOR TEMPORARY MANUAL OPERATION

Rotate MANUAL knob counter-clockwise to desired ON or OFF position. Timer will follow next automatic operation.

# MODEL: C85

**DISPLAY AERATOR CONTROL WITH TIME SWITCH, GFCB, LIGHTNING ARRESTOR AND 15 AMP GFCI LIGHTING RECEPTACLE SUITABLE FOR USE WITH SUBMERSIBLE LIGHTS**

**IN RAINPROOF (TYPE 3R) ENCLOSURE SUITABLE FOR INDOOR OR OUTDOOR USE 40 AMP. MAX PER LEG 120/240 VOLT SINGLE PHASE (THREE WIRE) AC**

**PUMP CIRCUIT: 3 hp max, 240 Vac, LIGHT CIRCUIT: 120 Vac - 15 amp Max.**

**MIN 75° C SUPPLY CONDUCTORS**

**PHOTO CONTROL RATINGS: 120 VAC 50/60 HZ. 1800W TUNGSTEN, 8.3A BALLAST**

**LIGHTNING ARRESTOR RATINGS: 120/240 VAC; MCOV 250 VAC**

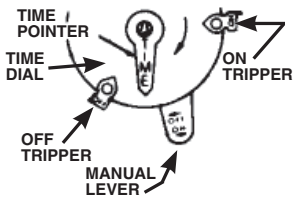
*Note: The short circuit current rating of this panel is 10,000 symmetrical amperes.*



**IMPORTANT:** This control panel must be installed according to the National Electrical Code (including article 680) and local code requirements. The main lugs and neutral main are suitable for No. 14 to 2 AWG **COPPER** conductors. Follow gauge selection table and corresponding terminal screw tightening torque requirements below. An additional branch circuit protector (20 Amp max) may be installed in the unused position for use as an auxiliary circuit. Use only Square D HOM Series circuit breakers for addition or replacement (do not exceed ratings on wiring diagram). Follow Manufacturers instructions for testing of ground fault circuit breakers (GFCB). This panel is equipped with a 120V AC - 15 amp duplex GFCI receptacle for connecting a 120V AC light kit or an external low voltage transformer for lighting. The receptacle power is controlled by the timer-photoelectric circuit. Refer to the instructions provided with your light kit. After wiring, install front panel over wiring compartment.  
**KEEP DOOR CLOSED AT ALL TIMES.**

Wiring information-Copper Conductors	
Wire Size	Terminal Tightening Torque
AWG	Lb-In
14	20
12	20
10	20
8	25
6	35
4	45
3	50
2	50

## TIME SWITCH OPERATING INSTRUCTIONS



### 1. TO SET "ON" AND "OFF" TIMES:

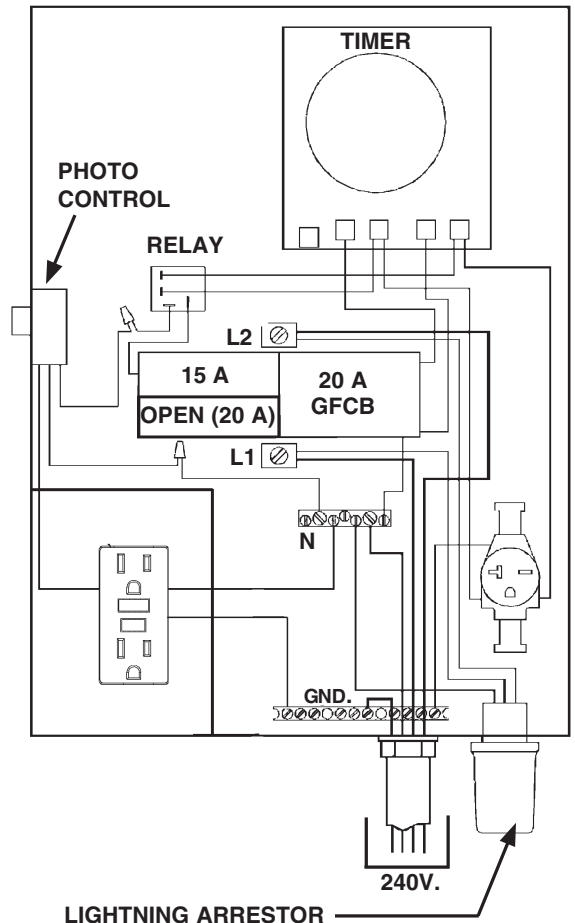
Hold TRIPPERS against edge of CLOCK-DIAL, pointing to time (AM or PM) when **ON** and **OFF** operations are desired. Tighten tripper screws firmly.

### 2. TO SET TIME-OF-DAY:

Pull CLOCK-DIAL outward. Turn in either direction and align the exact time-of-day on the CLOCK-DIAL (the time now, when switch is being put into operation) to the pointer.

**-DO NOT MOVE POINTER-**

- **TO OPERATE SWITCH MANUALLY:** Move MANUAL-LEVER below left or right as indicated by arrows. This will not affect the next operation.
- **FOR MORE THAN ONE DAILY ON-OFF OPERATION:** Place additional tripper pairs on CLOCK-DIAL (order 156T1978A).
- **IN CASE OF POWER FAILURE:** Reset CLOCK-DIAL to proper time of day. See step 2 above.



**KASCO MARINE, INC.,**  
800 Deere Road  
Prescott, WI 54021-1241  
• Phone (715) 262-4488

158PS13244

# MODEL: C95

**DISPLAY AERATOR CONTROL WITH TIME SWITCH, GFCB, LIGHTNING ARRESTOR AND 15 AMP GFCI LIGHTING RECEPTACLE SUITABLE FOR USE WITH SUBMERSIBLE LIGHTS**

**IN RAINPROOF (TYPE 3R) ENCLOSURE SUITABLE FOR INDOOR OR OUTDOOR USE 40 AMP. MAX PER LEG 120/240 VOLT SINGLE PHASE (THREE WIRE) AC**

**PUMP CIRCUIT: 24 FLA, 144 LRA, 240 Vac, LIGHT CIRCUIT: 120 Vac - 15 amp Max. MIN. 75° C SUPPLY CONDUCTORS**

**PHOTO CONTROL RATINGS: 120 VAC 50/60 HZ. 1800W TUNGSTEN, 8.3A BALLAST**

**LIGHTNING ARRESTOR RATINGS: 120/240 VAC; MCOV 250 VAC**

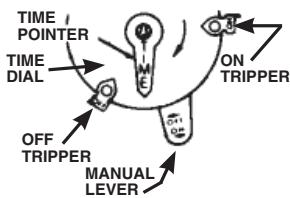


**IMPORTANT:** This control panel must be installed according to the National Electrical Code (including article 680) and local code requirements. The main lugs and neutral main are suitable for No. 14 to 2 AWG **COPPER** conductors. Follow gauge selection table and corresponding terminal screw tightening torque requirements below. An additional branch circuit protector (20 Amp max) may be installed in the unused position for use as an auxiliary circuit. Use only Square D HOM Series circuit breakers for addition or replacement (do not exceed ratings on wiring diagram). Follow Manufacturers instructions for testing of ground fault circuit breakers (GFCB). This panel is equipped with a 120V AC - 15 amp duplex GFCI receptacle for connecting a 120V AC light kit or an external low voltage transformer for lighting. The Pump Terminal Bar is controlled by the timer only. The Lighting GFCI outlet is controlled by the timer and photoelectric circuit. Refer to the instructions provided with your light kit. After wiring, install front panel over wiring compartment.

**KEEP DOOR CLOSED AT ALL TIMES.**

Wire Size	Terminal Tightening Torque
AWG	Lb-In
14	20
12	20
10	20
8	25
6	35
4	45
3	50
2	50

## TIME SWITCH OPERATING INSTRUCTIONS



### 1. TO SET "ON" AND "OFF" TIMES:

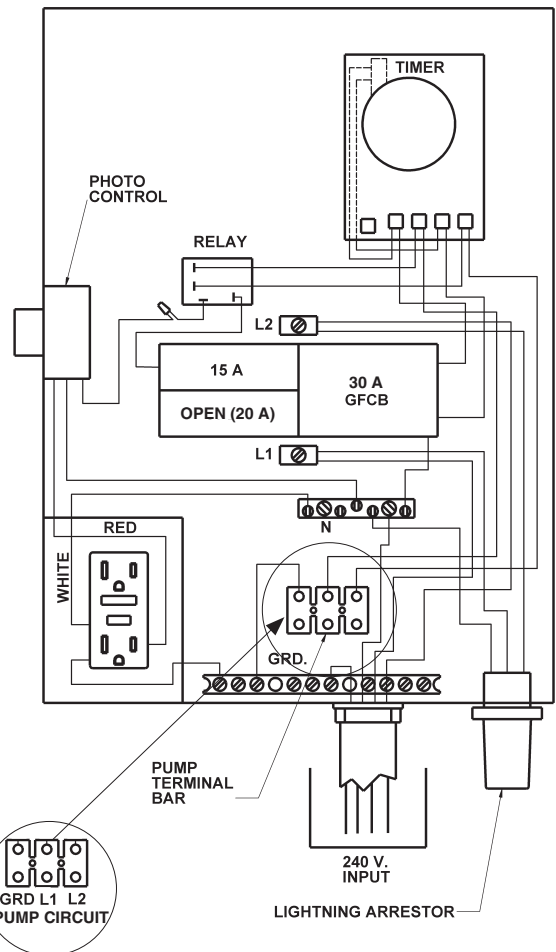
Hold TRIPPERS against edge of CLOCK-DIAL, pointing to time (AM or PM) when **ON** and **OFF** operations are desired. Tighten tripper screws firmly.

### 2. TO SET TIME-OF-DAY:

Pull CLOCK-DIAL outward. Turn in either direction and align the exact time-of-day on the CLOCK-DIAL (the time now, when switch is being put into operation) to the pointer.

**-DO NOT MOVE POINTER-**

- **TO OPERATE SWITCH MANUALLY:** Move MANUAL-LEVER below left or right as indicated by arrows. This will not affect the next operation.
- **FOR MORE THAN ONE DAILY ON-OFF OPERATION:** Place additional tripper pairs on CLOCK-DIAL (order 156T1978A).
- **IN CASE OF POWER FAILURE:** Reset CLOCK-DIAL to proper time of day. See step 2 above.

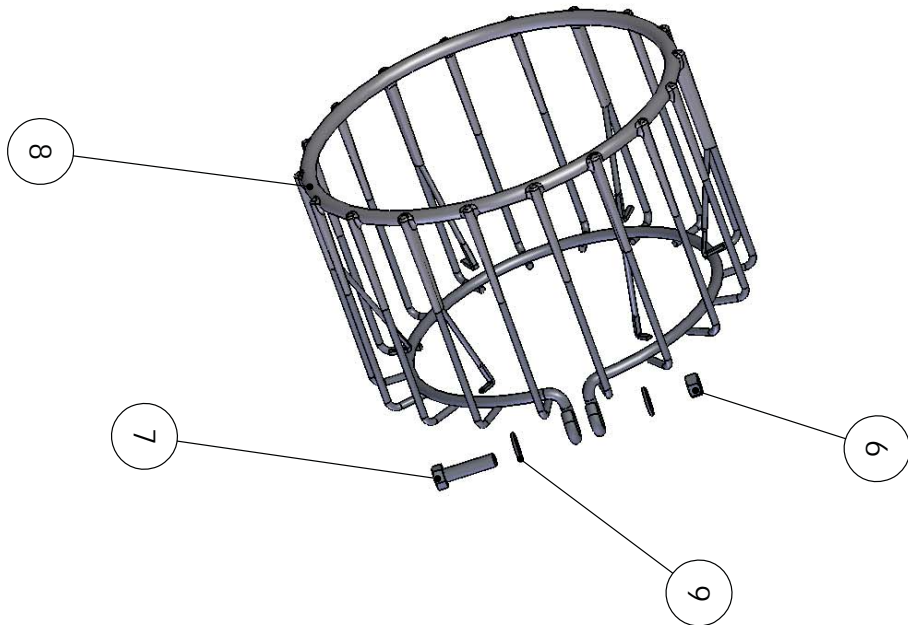
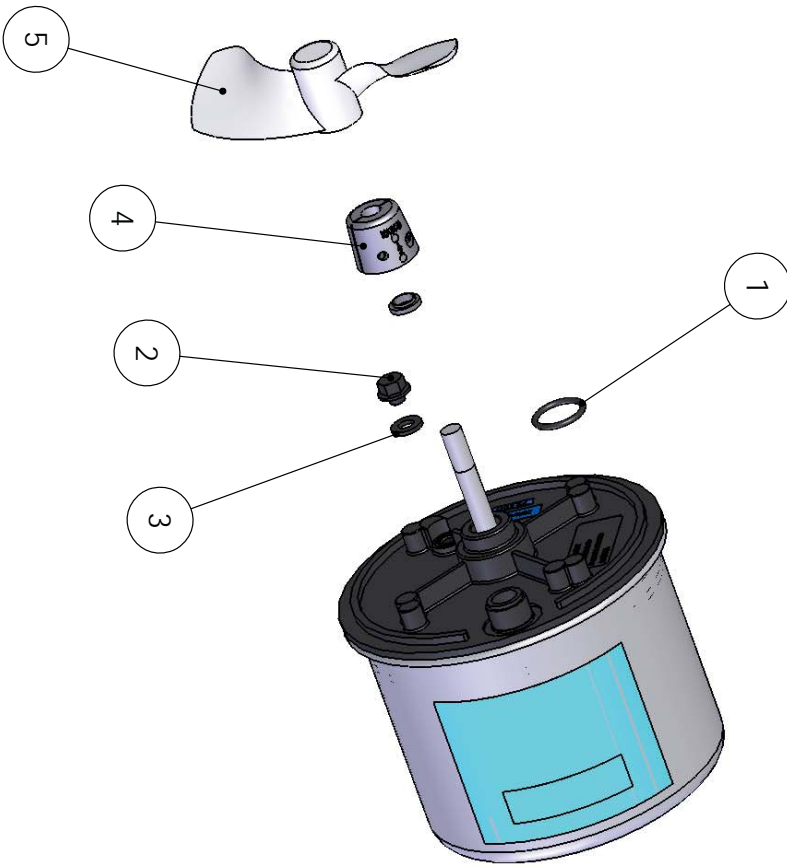


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 800 Deere Road  
 Prescott, WI 54021-1241  
 • Phone (715) 262-4488

158PS13206

# Replacement Parts Diagram

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1A	990275	CORD O RING	1
1B	990290	CORD O RING (5.1 MODEL)	1
2	990280	SEALING PLUG	1
3	990285	SEALING WASHER	1
4	243475	ZINC ASSEMBLY (2400 & 3400 MODELS)	1
4A	840475	ZINC ASSEMBLY (4400 & 8400 MODELS)	1
5	240170	2400 K PROP (2400 MODEL)	1
5A	340125	3400 J PROP (3400 MODEL)	1
5B	440400	4400 M PROP (4400 MODEL)	1
5C	820450	8400 Y PROP (8400 MODEL)	1
5D	821114	3 BLADE RED PROP (3.1 MODEL)	1
5E	821124	3 BLADE RED PROP (5.1 MODEL)	1
6	261234	HEX NUT	1
7	261240	5/16-18 X 1 HHCS	1
8	993201	CAGE	1
9	261231	FLAT WASHER	2





800 Deere Rd.  
 Prescott, WI 54021  
 Phone: 715-262-4488 - Fax: 715-262-4487  
 www.KascoMarine.com Sales@KascoMarine.com

## Customer Repair Form

**\* Important Reminders \***

- All repairs sent in **MUST** be accompanied by a copy of this completed sheet!
- Routine maintenance consists of checking the zinc anode regularly and replacing if necessary, keeping the unit clean, keeping the stainless steel can clean, and having the seals and oil replaced every 3-5 years depending on use.
- 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 and cage assembly with each unit sent in for repair to be considered for warranty repair!
- Do not ship the float and/or 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. 3400AF): \_\_\_\_\_

Serial # (Ex. 7001A34025): \_\_\_\_\_

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

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

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

Description of Problem:

Comments:

## Registration Information

Please register your fountain online at:

[www.kascomarine.com](http://www.kascomarine.com) (Under the Technical Tab)

Also fill in the information below and keep for your records.

Model # (Ex. 3.1AF) \_\_\_\_\_

Serial # (Ex. 8001A311725) \_\_\_\_\_

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

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

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



Kasco Marine, Inc.  
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Prescott, WI 54021

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