



# Owners Manual

## VFX Series Decorative Aerators



### Contents

Important Safety Instructions. . . .	pg2
General Owner's Instructions. . . .	pg2
Unit Specs. . . .	pg3
VX Pattern Sizes. . . .	pg3
2400, 3400, 4400VX Parts Chart. . . .	pg4
2400VFX, 3400(H)VFX, 4400(H)VFX Parts Included. . . .	pg4
2400VFX, 3400(H)VFX, 4400(H)VFX Assembly. . . .	pg5
8400VFX, 2.3(H)VFX, 5.1VFX, 5.3(H)VFX Parts. . . .	pg6
8400VFX, 2.3(H)VFX, 5.1VFX, 5.3(H)VFX Assembly. . . .	pg6
Mesh Screen Attachment. . . .	pg8
VFX Installation Instructions. . . .	pg9
Control Panel Installation. . . .	pg10
C-25 Timer Control Instructions. . . .	pg11
C85 non-metallic Wiring Diagram. . . .	pg12
C-95 Control Instructions. . . .	pg13
3 Phase Startup Procedure. . . .	pg14
C85 non-metallic and 3 Phase Control Panel Timer. . . .	pg15
2400, 3400, 4400 Parts Diagram. . . .	pg16
8400VFX, 2.3(H)VFX Replacement Parts. . . .	pg17
5.1VFX, 5.3(H)VFX Replacement Parts. . . .	pg18
Maintenance Recommendations. . . .	pg19
Warranty Policy. . . .	pg20
Troubleshooting Tips. . . .	pg21
Customer Repair Form. . . .	pg23
Registration Information. . . .	pg24



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## THANKS

We at Kasco Marine, Inc. would like to both thank and congratulate you on your purchase of the VFX model aerator. We appreciate you choosing Kasco and for your purchase. Your decision to purchase Kasco's VFX model Aerator will not disappoint you. The VFX model Aerator will be a great addition to your body of water. It will help improve the water quality by adding much needed oxygen and circulation. It will also enhance the aesthetics of the pond or lake with a beautiful pattern. The lighting package (if purchased) will illuminate your aerator for beauty at night. We thank you for choosing Kasco for your aerator 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 equipment with moving parts.
- 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 aerator by the power or light 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)
- Single phase aerators are supplied with an inter-

nal grounding conductor and/or a grounding-type attachment plug. To reduce the risk of electrical shock, be certain the aerator is properly connected to the Kasco supplied control panel. (refer to the C-25, C-85 & C-95 Control instructions)

- 3 phase aerators (2.3VFX, 5.3VFX) require a startup test after wiring to ensure proper rotation of the propeller. If the propeller is rotating in the opposite direction, the unit will not perform properly and internal damage to the unit may occur. (See 3 phase startup procedure)
- Control panels must be installed a minimum of 5ft(3m in Canada) from the inside wall of the pond, 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.
- Control panels must be installed by a qualified electrician.
- Ground Fault Circuit Interrupters (GFCI) should be tested upon each installation and every month thereafter to ensure proper operation.

## 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: Use a nylon tie to help keep the power cords for the unit and lights free of the propeller by tying each cord to either side of the float. If you have a light kit, make sure that the unit cord is tied to one side of the float and the light cord to the other for balance. 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 VFX model aerator with either a 2 Year 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 Section). 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). Make sure to keep the motor housing clean from hard water deposits and/or algae. (See Maintenance Recommendations.)

It is extremely important that proper and sufficient voltage is supplied to the aerator motor. Unit should be protected by a GFCI. Control panels must be installed by a qualified electrician. (See Installation instructions).

Kasco aerators 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 aerator.

## Unit Specs

Model	Voltage	Amps	Lock rotor amps	Control box connection	Aerator connection
single phase aerators					
2400VFX	110-120	5.6	12	C-25 plug in	Plug into C-25
3400VFX	110-120	7.3	18	C-25 plug in	Plug into C-25
3400HVFX	208-240	3.7	9	Hardwire C-85	plug into or hard-wire C85
4400VFX	110-120	11.3	40	C-25 plug in	Plug into C-25
4400HVFX	208-240	5.7	20	Hardwire C-85	plug into or hard-wire C85
8400VFX	208-240	11	40	Hardwire C-85	plug into or hard-wire C85
5.1VFX	208-240	20	97	Hardwire C-95	hardwire C95
3 phase aerators					
2.3VFX	208	7.5	40	see your control panel instructions	
5.3VFX	208	16.0	100		
2.3HVFX	460	3.6	24	see your control panel instructions	
5.3HVFX	460	7.8	49		

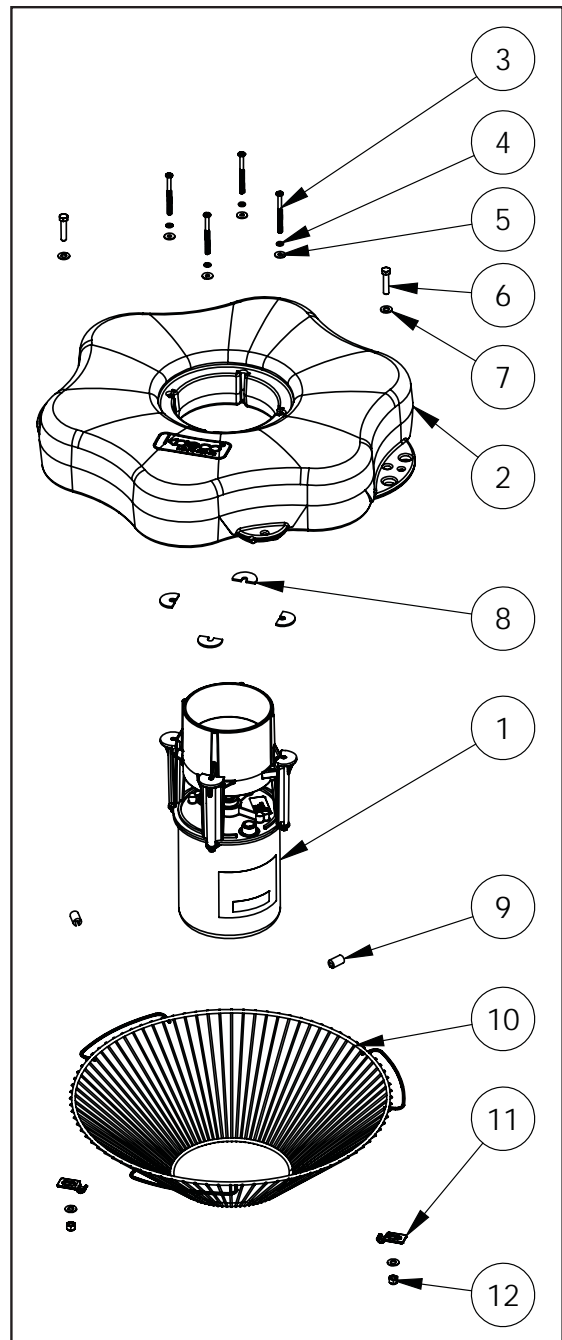
## VX Pattern Sizes

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.

Model	Height	Width
2400VFX	5'	15'
3400VFX	6'	21'
3400HVFX	6'	21'
4400VFX	8'	26'
4400HVFX	8'	26'
8400VFX / 2.3(H)VFX	8'	32'
5.1VFX / 5.3(H)VFX	9'	34'

## 2400, 3400, 4400VX Parts Chart (Corresponds to Parts Diagram)

#	2400VFX	3400VFX/ 3400HVFX	4400VFX/ 4400HVFX	Part Name	Qty
1	241000	241000	241000	XF Float	1
2	990162	990162	990162	Bottom Screen	1
3	223240	223240	223240	Bottom Screen Clips	2
4	241005	241005	241005	X tube	1
5	140312	140312	140312	Retainer Clip	4
6	258476	258476	258476	1/4" flat washer	4
7	462210	462210	462210	3/8" x 1 3/4" bolt	2
8	462214	462214	462214	3/8" Nylon lock- ing nut	2
9	462216	462216	462216	3/8" washer	4
10	251200	251200	251200	1/4" x 3 1/4" machine screw	4
11	251250	251250	251250	#14x1 1/4" self tapping screw	4
12	240594	340594	440600	VX prop	1
13	241025	241035	241045	VX Disc	1
14	243405	243405	243405	1/2"x3/4" V disc bolt	1
15	475642	475642	475642	1/2" Flat washer	1
16	990281	990281	990281	sealing washer	1
17	990280	990280	990280	Sealing plug	1
18	990275	990275	990275	Cord oring	1
19	251300	251300	251300	1/4 washer .75 O.D.	4
20	243475	243475	243475	zinc anode	1



## 2400VFX, 3400(H)VFX, 4400(H)VFX 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 1/4" Phillips Pan Head Screw (4)
4. 1/4" split washers (4)
5. 1/4" (3/4" outer diameter) Flat Washer (4)
6. 3/8"-16 x 1-3/4" Hex Head Bolt (2)
7. 3/8" Flat Washer (4)
8. Cushions for Legs (4)
9. Bottom Screen Cushion (3)
10. Bottom Screen (1)
11. Bottom Screen Clips (2)
12. 3/8"-16 Nylon Lock Nut (2)

### Also Included:

- Mesh screen(1) and cable ties(10)
- Cord in separate box (1) (depending on size of cord)
- Control Box (C-25 for 120V units in Float box or C-85 for 240V units in separate box) (1) (Not Pictured)

### TOOLS & SUPPLIES NEEDED

- Anchors or stakes for installing unit (2)
- # 2 Phillips head screw driver
- 120V or 240V Electrical Supply near pond on a post with room for mounting the C-25 or C-85



- Two 12" pieces of 1" galvanized pipe for weighting ropes (optional)
- #10 x 1" long or longer screw(s) for mounting the C-25 (3) or C-85 (4)
- 9/16" Socket and Ratchet
- 9/16" Wrench

## 2400VFX, 3400(H)VFX, 4400(H) VFX Assembly

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

2. Set motor housing upright (stainless steel can down) on a flat surface.

3. Peel off the adhesive on one of the Cushions for the aerator housing legs (Part 8). Stick to the top of the aerator housing leg and repeat for the other three cushions. Rest the float on the 4 legs of the housing making sure logo on float is up.



4. Ensure correct alignment by twisting the float gently around the motor housing until the power cord guide lines up with the cord. See diagram below of bottom side of float. The 4 bolt holes in the float should line up with bolt receptacles on unit.



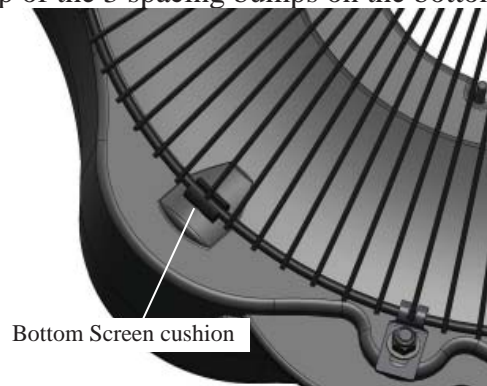
5. Use one of the 1/4"-20 x 3-1/4" Phillips Pan Head Screws (Part 3), one 1/4" split washer (Part 4), and a 1/4" Flat Washer (Part 5) to secure the float. Make

sure the split washer goes between the bolt head and the flat washer. Insert screw with washers through bolt hole in float

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



6. See "Mesh Screen Attachment" section before connecting the bottom screen to the float. 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 cushions (Part 9) underneath the screen and on top of the 3 spacing bumps on the bottom of the float.



7. Using a stainless steel Bottom Screen Clip (Part 11), 3/8"-16 x 1-3/8" Bolt (Part 6), two 3/8" Flat Washer (Part 7), 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.

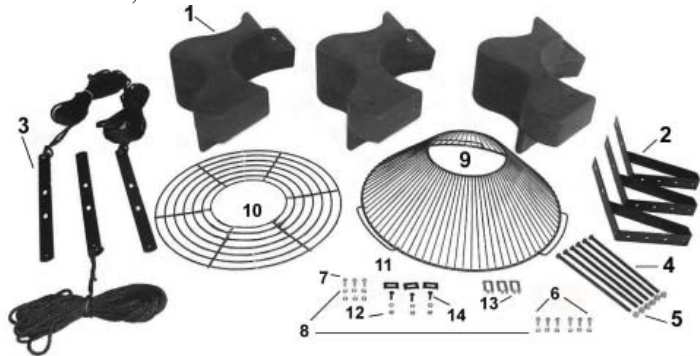


8. Turn the assembly upright again. At this time, if the cord contains a metal strain relief, you can use the chain connector and attach it in one of the opening at the rope placement. The chain connector will easily fit if installed from the bottom or top side of the opening. It will not fit if installed 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.

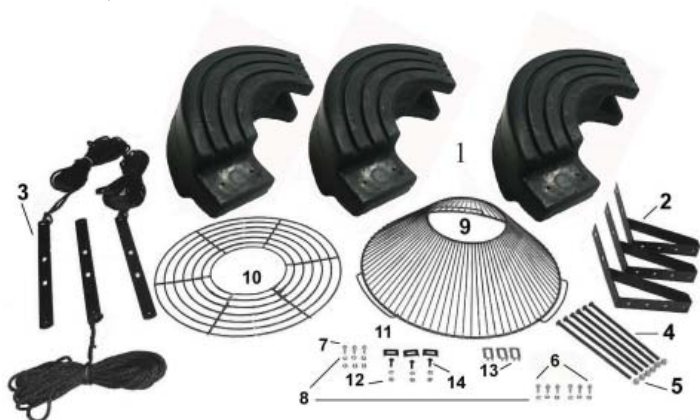


## 8400VFX, 2.3(H)VFX, 5.1VFX, 5.3(H)VFX Parts

### 8400VFX, 2.3VFX PARTS INCLUDED



### 5.1VFX, 5.3VFX PARTS INCLUDED



### A. Aerator (Unit with cord or unit with Disconnect) (1)

A1. Cord in separate box (1) (depending on size of cord)

### B. Float in separate box (1) (Diagram to Right)

1. 3 Float Sections (1)
2. Top Float Bracket (3)
3. Bottom Float Bracket w/ 50' rope (3)
4. 9" x 3/8" Black Coated Bolt (6)
5. 3/8" Lock Nut (6)
6. 1/4" x 1" Bolt (6)
7. 1/4" x 3/4" Bolt (3)
8. 1/4" Lock Washer (12)
9. Bottom Screen (1)
10. Top Screen (1)
11. Top Screen Clip (3)
12. 1/4" Nut (6)
13. Bottom Screen Clip (3)
14. 1/4-20 x 3/4" Brass Screw (3)
15. Mesh screen (1)
16. Cable ties (10)

C-85 Control Panel in separate box (1) **for 8400VFX**

C-95 Control Panel in separate box (1) **for 5.1VFX**

NOTE: Extra hardware may be included.

### TOOLS & SUPPLIES NEEDED

- Anchors or stakes for installing unit (3)
- Philips head screw driver for mounting C-85
- 240V Electrical Supply near pond on a post with room for mounting the C-85
- Three 12" long galvanized 1" diameter pipe for weighting ropes (optional)
- #10 x 1" long or longer screw(s) for mounting the C-85 (4)
- 7/16" Socket & Wrench (1)
- 7/16" Wrench (1)
- 9/16" Socket & Wrench (1)
- 9/16" Wrench or adjustable crescent wrench (1)
- Flat head screw driver (1)

## 8400VFX, 2.3(H)VFX, 5.1VFX, 5.3(H)VFX Assembly

1. 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 section in this man-

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

2. 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.

8400, 2.3

Float up



Float down  
(plug)



Float Up (plug) 5.1, 5.3



Float Down



8400, 2.3

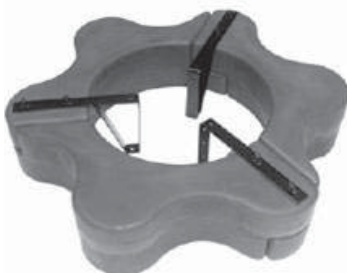
5.1, 5.3



3. Position one Top Float Bracket (Part #B2) so that the bolt holes in the bracket align with the bolt holes in the two adjoining 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.

8400, 2.3

5.1, 5.3



4. 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 #B12) and tighten using the 7/16" wrench and socket.

8400, 2.3

5.1, 5.3



5. Stand the assembly on its side and center the Top Screen (Part #B10) inside the three Top Float Brackets. Attach the screen by spanning each Top Screen Clip (Part #B11) across the two innermost rings on the screen and the hole in the float bracket. Insert the 3/4" Brass Screws (Part #B14) and attach with 1/4" Lock Washers and 1/4" Nuts to secure the screen to the float assembly.



6. Return the assembly to the upside down position and place the motor assembly (Stainless Steel can side up, black tube down) in the center of the float. Align the 3 taller legs of the black aerator tube with the 3 float brackets. Attach the motor to the float using the 1/4" x 1" bolts (Part #B6). Attach to the float bracket using the two middle holes of the float bracket. Tighten using the 7/16" socket and wrench. The 1" bolts will screw directly into the legs of the black aerator tube.



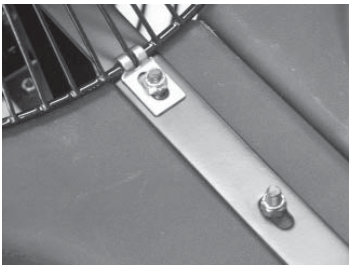
## Step 6



7. See “Mesh Screen Attachment” section before connecting the bottom screen to the float. Position the Bottom Screen (Part #B9) over the float so the motor housing (can) passes through the large hole in the center of the screen. Remove the center three 3/8” Lock Nuts from the 9” Bolts and place the Bottom Screen Clips (Part #B13) 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.

8400, 2.3

5.1, 5.3



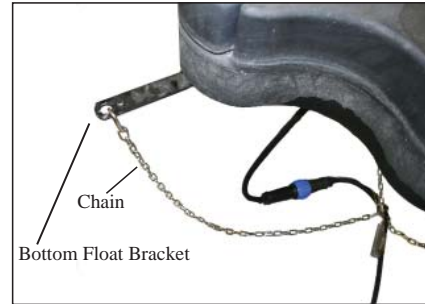
Note: Extra hardware may be included

8. On power cord lengths of 100 feet or longer with the watertight Quick Disconnect, the power cord is shipped separately. It 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 as pictured. If you receive a 3 chain strain relief (6 or 8 gauge cord), attach one chain to each of the three lower float brackets. If there is not Strain Relief, use the Nylon Cable Tie provided to secure the cord to a rope to prevent damage by the propeller. Double check the Quick Disconnect to make sure the threaded collar has not come loose in shipping before placing in the water.

If installing a new Quick Disconnect, please refer to Quick Disconnect instructions. Also, at this time, lights can be installed if purchased.



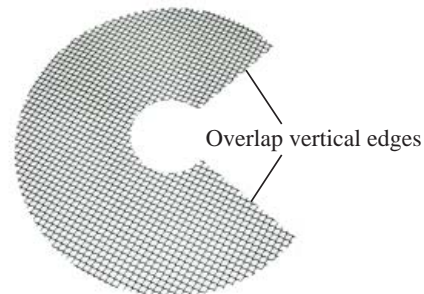
1 chain strain relief



3 chain strain relief

## Mesh Screen Attachment

1. Take flat mesh pattern and wrap into cone shape by overlapping both vertical edges by approximately 1 inch and aligning top and bottom edges of mesh. Secure mesh vertical seam at the top, bottom and middle using (3) cable ties.



Overlap vertical edges

Attach 3 cable ties



1 inch overlap

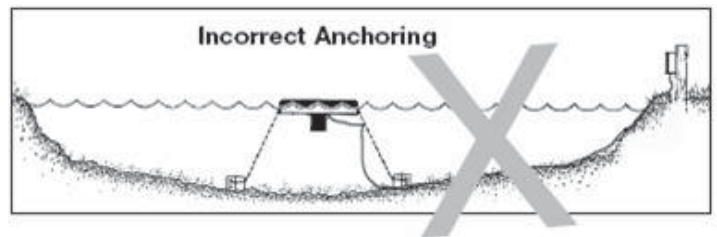
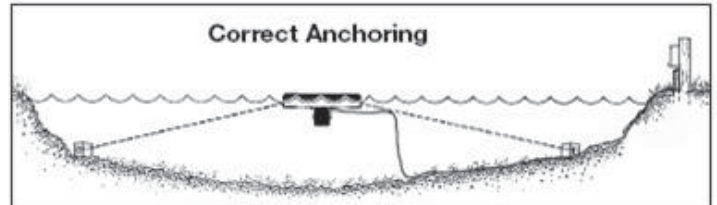




## VFX Installation Instructions

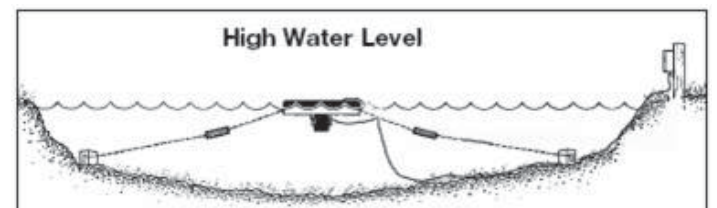
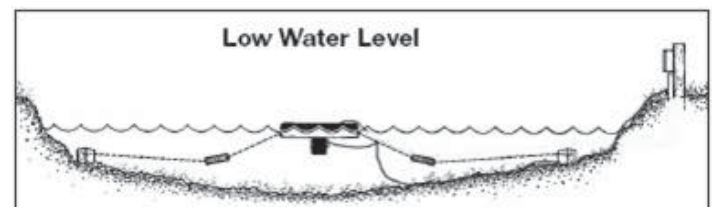
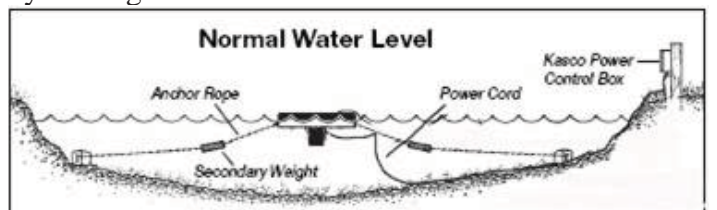
Before installing 3 phase units (2.3, 5.3) into the pond, please refer to 3 phase startup procedure.

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.)

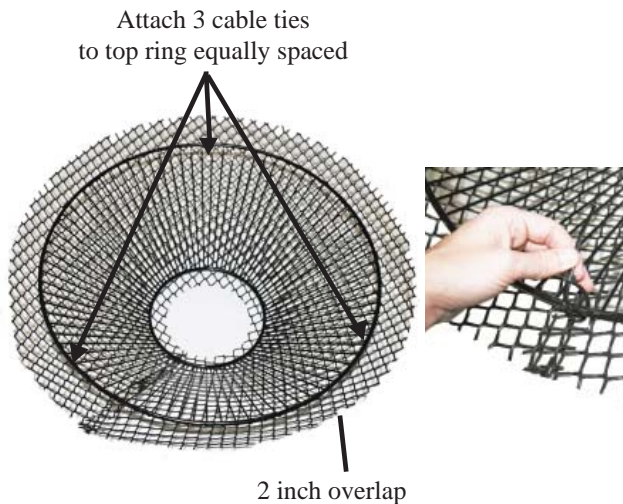


### ALTERNATE INSTALLATION

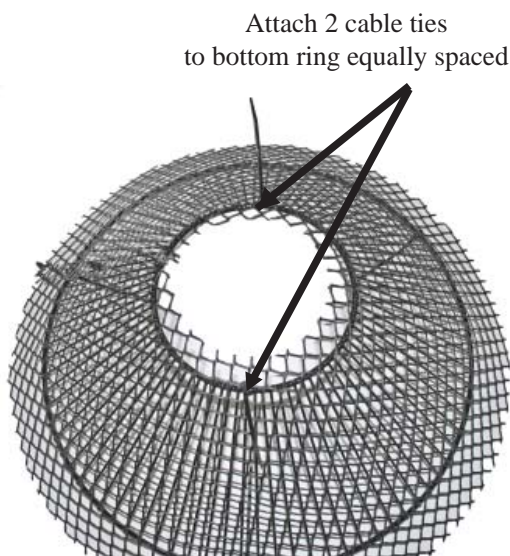
In ponds where the water level fluctuates significantly, you may need to suspend a small weight (12" of 1" galvanized pipe works well) at the mid-point of the rope to take up any slack as the water level drops. The weight should be light enough so the aerator can rise as the water level rises. This can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



2. Insert existing stainless steel screen centered inside mesh cone with approximately 2 inches of mesh overlap to the top ring of the screen. Attach mesh to the top ring of the screen in (3) equally spaced locations using cable ties.



3. Flip mesh and screen assembly over and use remaining cable ties to secure mesh to small bottom diameter of the stainless steel ring.



4. Clip off excess cable tie material once mesh is secured into place. Go back to assembly instructions to continue with connecting the bottom screen to the float.

# Control Panel Installation

## STEP ONE

Inspect the panel for any damage and any components that may have loosened during shipping.

Control panel must be installed a minimum of 5ft (3m in Canada) from the inside wall of the pond, 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.

Install the control panel to a post structure, side of a building, or other reliable means. This structure must support the panel and prevent movement/flexing of the panel. Use #10 x 1" or longer screws in the mounting points of the control panel to secure to the post structure. NOTE: The control panel must be hung upright in order to be waterproof. It is also advised to mount the panel out of direct sunlight if possible. Mounting the panel in a North direction will prevent heat buildup inside the panel. Also, mount the panel above the potential flood plain to prevent water entry during a possible flood event.

## STEP TWO

Set Timer in the control panel to desired ON and OFF times per the Instructions for each specific timer.

## STEP THREE

**Follow all local and national electrical codes for this installation and Consult a qualified electrician or service person if needed.**

(For 120V Installations)

Plug the aerator 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 AERATOR!

3 Phase: (2.3, 5.3)

Refer to your 3 phase control panel instructions

Single Phase: (3400H, 4400H, 8400, 5.1)

## STEP THREE (For 240V Installation)

All electrical connections to this panel must be made with proper strain relief cord grip fittings or with conduit connections as required by local and national electric codes. The bottom of the enclosure is reserved for field installation of these connections.

### **C85 non-metallic control panel:**

*Incoming power connection: (Power feed)*

This control panel requires a 240V or 208V - 4 wire service (L1, L2, N, & G) and must be fed with a power circuit protected by a circuit breaker or a fused disconnect switch to provide circuit protection and a disconnection means. C-85 panel requires at least a 30amp protected circuit feeding the panel.

C-95 panel requires at least a 40amp protected circuit feeding the panel.

Connect your power feed as detailed in the wiring diagram provided with this panel.

L1 connects to Terminal	#1
L2 connects to Terminal	#2
N connects to Terminal	N
G connects to Terminal	GROUND - located on chassis plate

Be sure to provide adequate sized power conductors to prevent excessive voltage drop. Consult with your electrician to properly size power feed conductors. Use copper conductors only.

### *Aerator power cord connection:*

Your aerator (pump) will be provided with a flexible power cord for connection to this control panel. If the power cord has a plug, you will need to cut it off. The power cord conductors (black, white, green) will need to be stripped back 1/2". The outer black jacket should be stripped back at least 3inches. Follow the connection diagram for terminating these three wires to the terminal blocks in the control panel.

Black connects to Terminal	#4
White connects to Terminal	#5
Green connects to Terminal	G

### *Light Kit connection:*

If you purchased a Kasco light kit(s) for your aerator, follow the light kit installation instructions for mounting the light kit(s) to the aerator float.

This control panel requires a hardwire connection for the light kit(s). To connect the light kit(s) you will need to cut off the power cord plug that is molded to the light kit power cord. Strip back the black outer jacket of the light kit power cord at least 3inches to reveal the three internal wires of the power cord. (black, white, and green conductors). These three wires will need to be stripped back 1/2". Follow the connection diagram for terminating these three wires to the terminal blocks in the control panel.

### *Light kit connections:*

Black connects to Terminal	#6
----------------------------	----

White connects to Terminal #7  
Green connects to Terminal G

### **C95 metallic control panel:**

#### ***Incoming power connection: (Power feed)***

To hardwire the 240V or 208V - 4 wire service (L1, L2, N, & G) to the C-95 control panel please refer to the panel's inner door label or the label printed in this manual.

#### ***Aerator power cord connection:***

Use the terminal block near the bottom of the panel to hardwire the aerator. 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.

#### **STEP FOUR:**

**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.

Once completed, power can be restored to the panel.

**Record the following data while the Aerator is operating in the water under load:**

#### **Voltage:**

**L1-L2** \_\_\_\_\_

**L1-N** \_\_\_\_\_

**L2-N** \_\_\_\_\_

#### **Amperage:**

**L1** \_\_\_\_\_

**L2** \_\_\_\_\_

**Date installed** \_\_\_\_/\_\_\_\_/\_\_\_\_

Any unauthorized modifications to this control panel will void the UL listing and the Kasco warranty.

### **C-25 Timer Control Instructions 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 DE-PRESSED AFTER PRESSURE 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 RESET PROPERLY, DO NOT USE TIMER! CONTACT A QUALIFIED SERVICE TECHNICIAN!**

Failure to use the C-25 with Kasco aerators will void the warranty and cause the aerator 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 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!

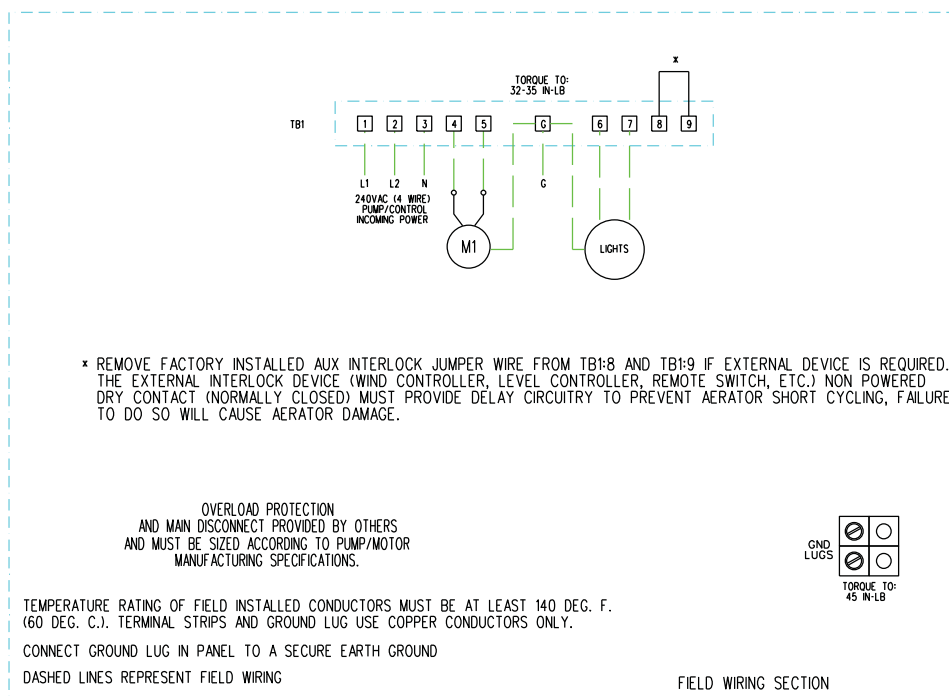
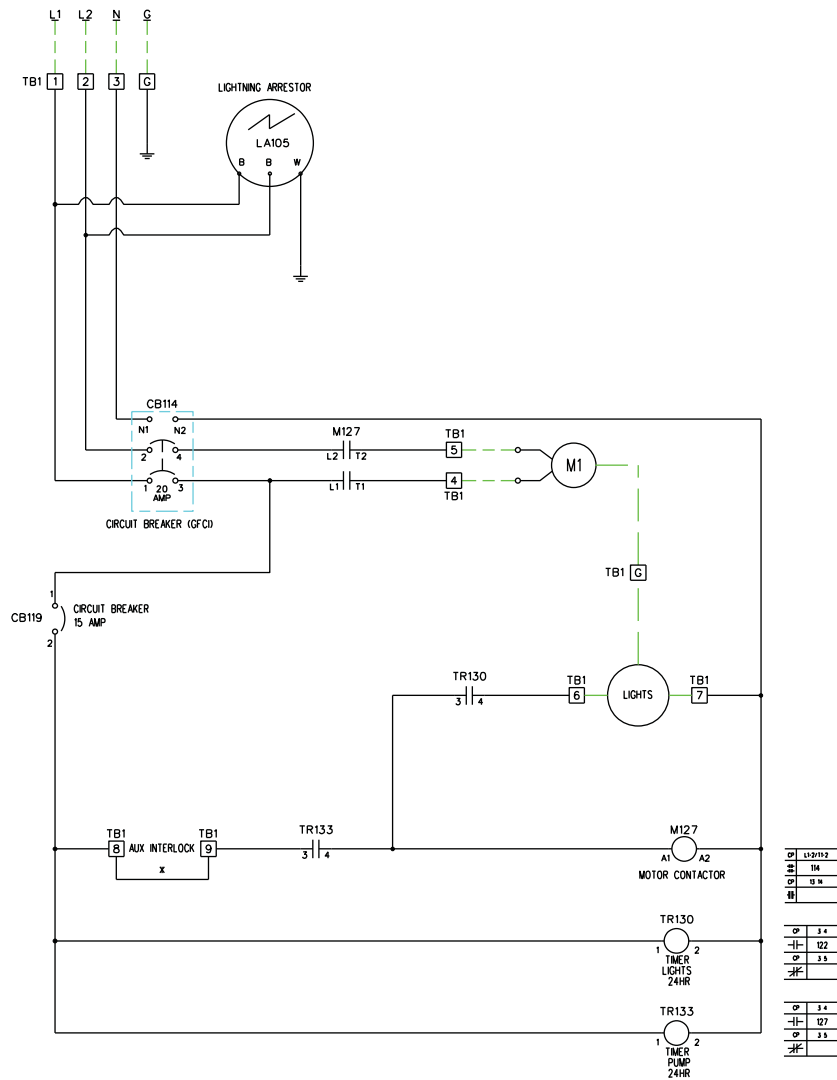
- Insert "ON" (GREEN) and "OFF" (RED) trippers into dial at desired ON and OFF times.
- Turn dial clockwise one or more revolutions until correct time-of-day (AM or PM) in window is aligned with the arrow.
- Plug aerator cord into the RIGHT hand outlet (labeled UNIT).
- Plug transformer light cord into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



# C85 non-metallic Wiring Diagram



# 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.**

**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:

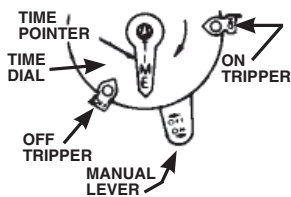
Pull CLOCK-DIAL outward. Turn in either direction and align the exact time-of-day on the CLOCK-DIAL (the time now, when switch is being put into operation) to the pointer.

**-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.



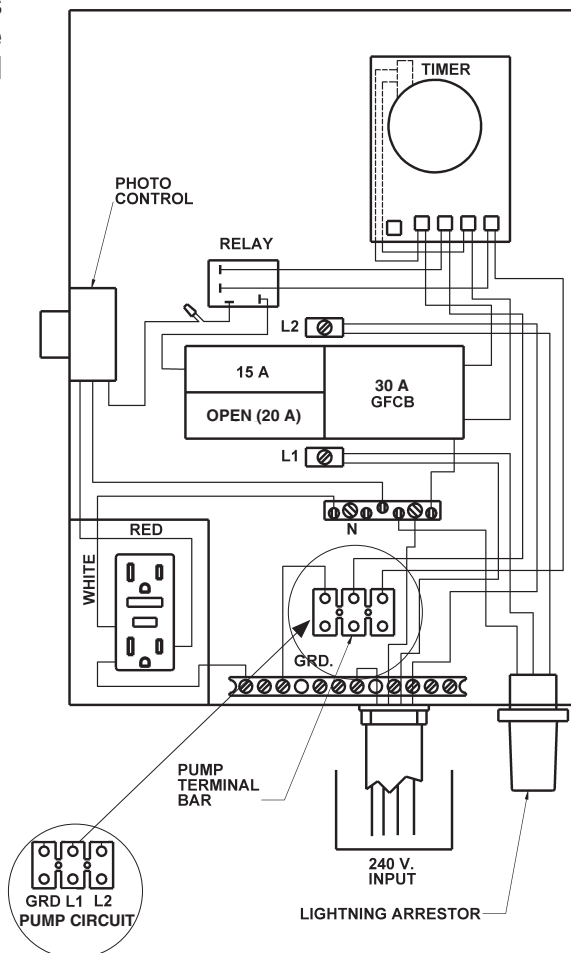
**KASCO MARINE, INC.,**

800 Deere Road

Prescott, WI 54021-1241

• Phone (715) 262-4488

158PS13206



### 3 Phase Startup Procedure

If a Kasco Control Panel is not provided, please refer to the following warnings:

When inherent overheating protection is not provided: use with approved motor control that matches motor input in full load amperes with overload element(s) selected or adjusted in accordance with control instructions.

*Utiliser un démarreur approuvé convenant au courant à pleine charge du moteur et dont les éléments thermiques sont réglés ou choisis conformément aux instructions qui l'accompagnent.*

When inherent overheating protection is provided: use with approved motor control that matches motor input in full load amperes. See table below.

*Utiliser un démarreur approuvé convenant au courant à pleine charge du moteur.*

Note: The motor input in full load amperes is the marked value or the service factor amperes, shown on the nameplate.

3 phase 208- 230 Volt	2.3VFX	5.3VFX
Full load amps	7.5	16

3 phase 460 Volt	2.3HVFx	5.3HVFx
Full load amps	3.6	7.8

Control panels must be installed by a qualified electrician.

If unit is connected to a circuit protected by a fuse, use a time-delay fuse with this pump.

#### **You must verify motor rotation before installing the unit in the water.**

3phase Kasco units will run in a clockwise rotation when looking down at the propeller. Stand clear of the propeller while verifying rotation. If a Kasco 3 phase panel is supplied, follow the instructions with the panel. Also follow the steps below.

Electrician:

1. Verify all screw terminal connections are tightened to specified torque setting prior to energizing the panel.

2. Verify the electrical service (voltage and Phase) matches the control panel and aerator nameplates ratings. Refer to the control panel instructions and schematics for installation details.
3. Verify all switches, circuit breakers, and motor starters are in the OFF position
4. Connect electrical service to this control panel as shown in the electrical schematic that came with the panel.
5. Connect the aerator power cord to this panel as shown in the electrical schematic.
6. Set the motor starter overload to the FLA rating on the aerator nameplate.
7. Pump rotation: The pump rotation is clockwise when looking down at the propeller. Apply power to the control panel. Turn on the 15amp control circuit breaker, and motor starter.
8. Momentarily turn the Hand-Off-Auto switch to Hand. This will run the aerator. Do not run the aerator for more than a few seconds on shore. If the rotation is not correct. Disconnect and lock out power from the control panel. Swap any two of the aerator power cord wires in the panel. This will cause the motor to reverse direction. Reapply power to the panel and verify the rotation is clockwise.
9. Once rotation is verified, with the power disconnected and locked out again, continue with installation of the aerator as detailed in the aerator owner's manual.

Record the following data while the unit is operating in the water under load:

Voltage:

Amperage:

L1-L2 \_\_\_\_\_

L1 \_\_\_\_\_

L1-L3 \_\_\_\_\_

L2 \_\_\_\_\_

L2-L3 \_\_\_\_\_

L3 \_\_\_\_\_

Current unbalance should not exceed 5% at full load



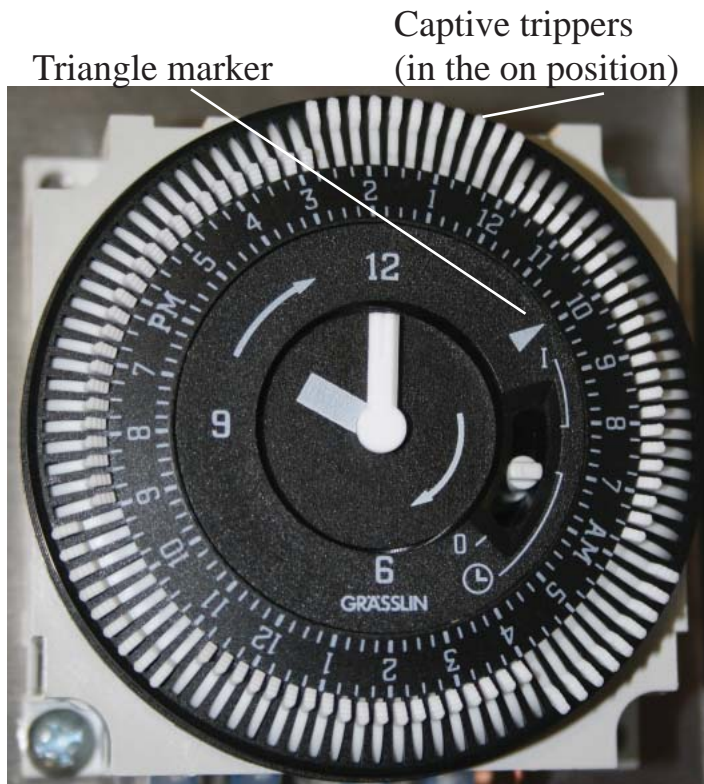
# C85 non-metallic and 3 Phase Control Panel Timer

## TIME CLOCK SETTING

TO SET THE CURRENT TIME, TURN THE MINUTE HAND CLOCKWISE. DO NOT SET THE TIME BY ROTATING “OUTER” DIAL.

Turn the minute hand clockwise until the time of day on the outer dial is aligned with the triangle marker on the inner dial (two o'clock position).

Example for 10:00 AM. Turn the minute hand clockwise until 10:00 AM is aligned with the triangle on the inner dial. The hour and the minute dial will show exactly 10:00.



## PROGRAMMING

The 24-Hour dial has quarter-hour divisions and AM/PM indications.

The time switch is programmed by pushing the captive trippers to the outer ring position for the entire period that the aerator is to be turned “ON”, i.e., fifteen minutes for each tripper on the 24-Hour dial. When the tripper is pushed to the inside, the switch is in the “OFF” position.

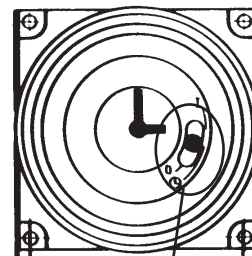
## PROGRAMMING WITH MANUAL OVER-RIDE SWITCH

### AUTOMATIC MODE

In order to operate the time clock in the automatic mode, the manual switch must be in the center position (automatic) - see diagram.

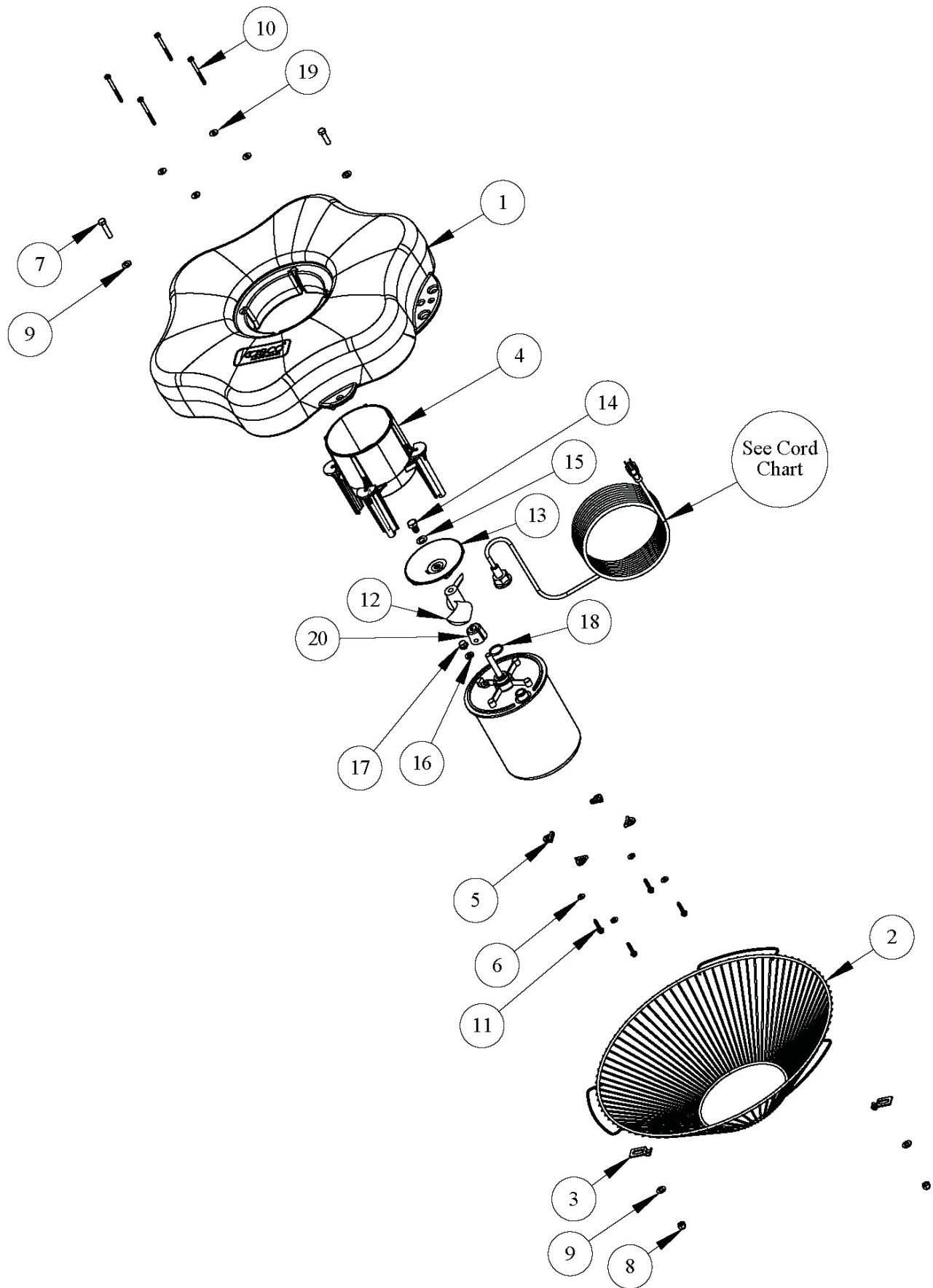
### MANUAL MODE

With the manual override switch in the lower position, marked “O”, the time clock output will remain Permanently OFF. In the upper position, marked “T”, the time clock output will remain permanently ON



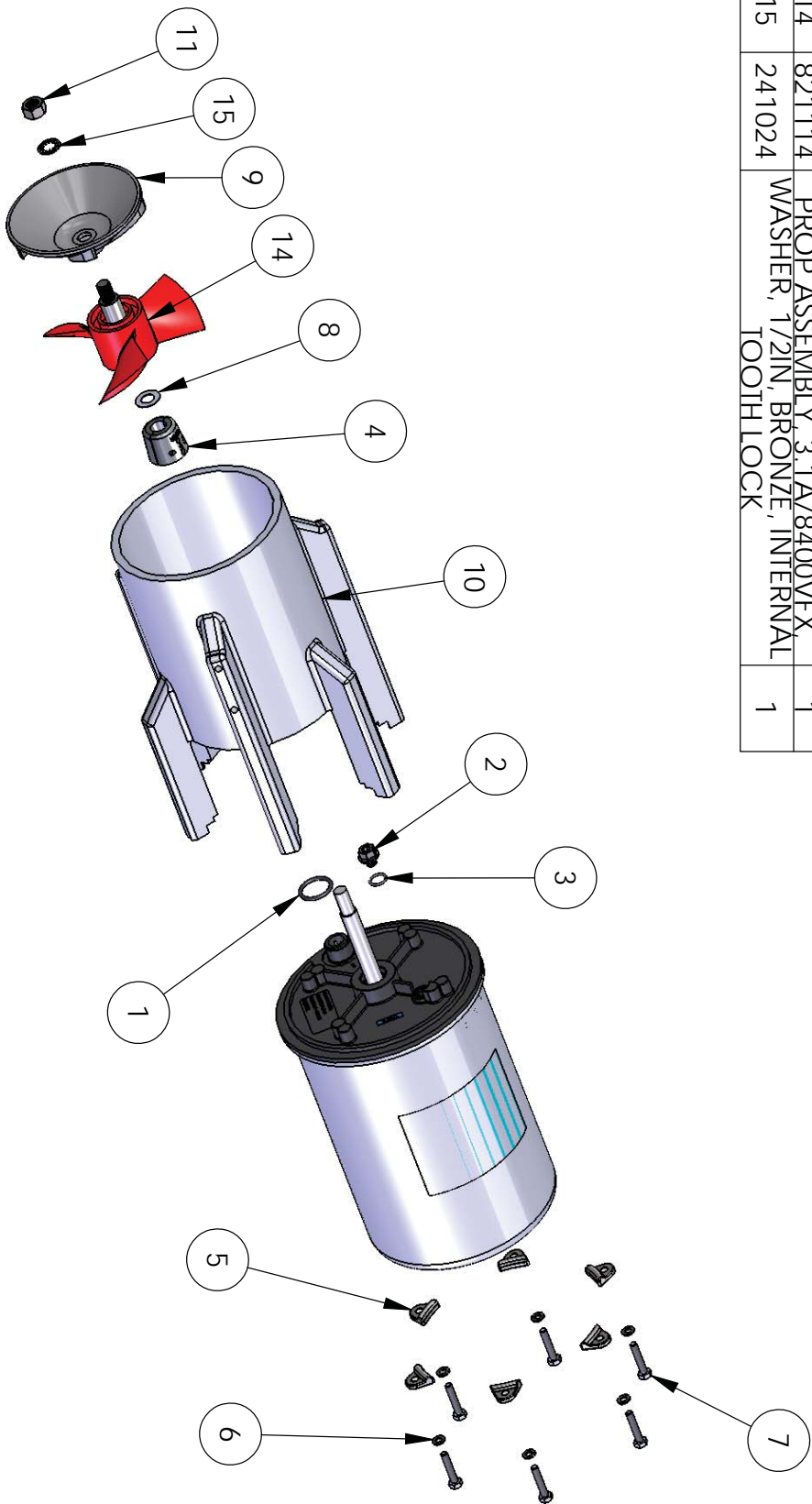
Override Mode	
3-way manual override switch	I = permanent ON
	⌚ = automatic
	O = permanent OFF

## 2400, 3400, 4400 Parts Diagram



ITEM NO.	PART NO.	DESCRIPTION	8400 /QTY.
1	990275	O RING, CORD	1
2	990280	SEALING PLUG	1
3	990281	O RING	1
4	840475	ZINC ASSEMBLY	1
5	140312	RETAINING CLIP	6
6	840537	LOCK WASHER, 1/4"	6
7	584692	1/4-20 X 1-3/8" BOLT	6
8	475642	WASHER, 1/2"	1
9	821100	TOP DISK, 8400VFX	1
10	821120	8400VFX TUBE	1
11	821095	1/2-20 HEX NUT, LEFT HAND THREADED	1
14	821114	PROP ASSEMBLY, 3.1A/8400VFX	1
15	241024	WASHER, 1/2IN, BRONZE, INTERNAL TOOTH LOCK	1

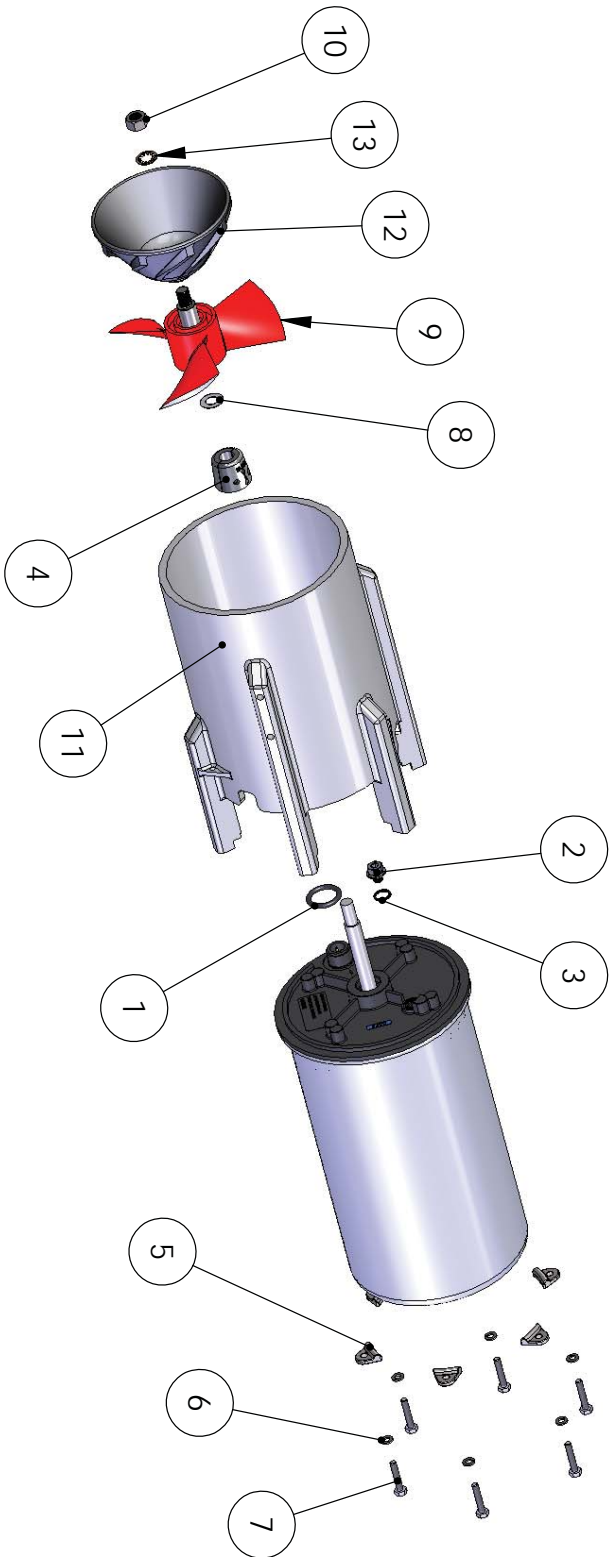
8400VFX, 2.3(H)VFX Replacement Parts





ITEM NO.	PART NO.	DESCRIPTION	5.1VFX PARTS LIST/ QTY.
1	990290	O RING	1
2	990280	SEALING PLUG	1
3	990281	O RING	1
4	840475	ZINC ASSEMBLY	1
5	140312	RETAINING CLIP	6
6	840537	LOCK WASHER, 1/4"	6
7	584692	1/4-20 X 1-3/8" BOLT	6
8	475642	WASHER, 1/2"	1
9	821124	PROP ASSEMBLY, 5.1A/5.1VFX,	1
10	821095	1/2-20 HEX NUT, LEFT HAND THREADED	1
11	510250	5.1VFX TUBE	1
12	510200	TOP DISK, 5.1VFX	1
13	241024	WASHER, 1/2IN, BRONZE, INTERNAL TOOTHLOCK	1

### 5.1VFX, 5.3(H)VFX Replacement Parts



## Maintenance Recommendations

**\*\* Under No Circumstances should anyone enter the water while a aerator 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 aerator 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 aerator 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 [returns@kascomarine.com](mailto:returns@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 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 aerators 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 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 32°F. It is not necessary to store Kasco motors upside down.

**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.

**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 aerator 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 VFX Model aerators for protection of the equipment from corrosion and electrolysis. The zinc anode should be updated (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. Any alterations or changes made to Kasco units by an unauthorized source will void the warranty. This includes tampering with the unit, power cord, and/or control box. Please contact Kasco Marine, Inc. at 715-262-4488 for your nearest Authorized Repair Center.

## Warranty Policy

### Warranty Period:

Models: 2400VFX, 3400(H)VFX, 4400(H)VFX  
- 2 years

Models: 8400VFX, 2.3(H)VFX, 5.1VFX,  
5.3(H)VFX - 3 years

Kasco® Marine, Inc. warrants this aerator 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 from the date of shipment. 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 aerator is not maintained properly according to the Maintenance Recommendations supplied in this Owners Manual.
- The aerator 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 aerator 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:

The best method for establishing warranty period is by keeping your original receipt. Also register the aerator online at:

[www.kascomarine.com](http://www.kascomarine.com) (under 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.

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 [returns@kascomarine.com](mailto:returns@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 or float with the motor assembly.

Please include the Repair Form received from Kasco Marine or your local distributor with the shipment. If no Repair Form is available, include your name and physical address for return delivery of the repaired 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 a Return Authorization Number and/or Repair Form so we know the repair is coming.

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 prepaid with Visa or Mastercard or shipped C.O.D. with C.O.D. charges unless otherwise directed. Kasco Marine will call for credit card information upon completion of the repair.

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-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 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." (single phase units only)*

This indicated a problem with the Starting Capacitor. Each Kasco aerator 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." (single phase units only)*

Each Kasco aerator 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 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. 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.



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 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/fountain housing with each unit sent in for repair to be considered for warranty and for proper repair and shipping protection!
- 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. 1400JFL): \_\_\_\_\_

Serial # (Ex. 7001JL14025): \_\_\_\_\_

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

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

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

Description of Problem:

Comments:

## Registration Information

Please register your aerator 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. 5.1VX)\_\_\_\_\_

Serial # (Ex. 8001VX511725)\_\_\_\_\_

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

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

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



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