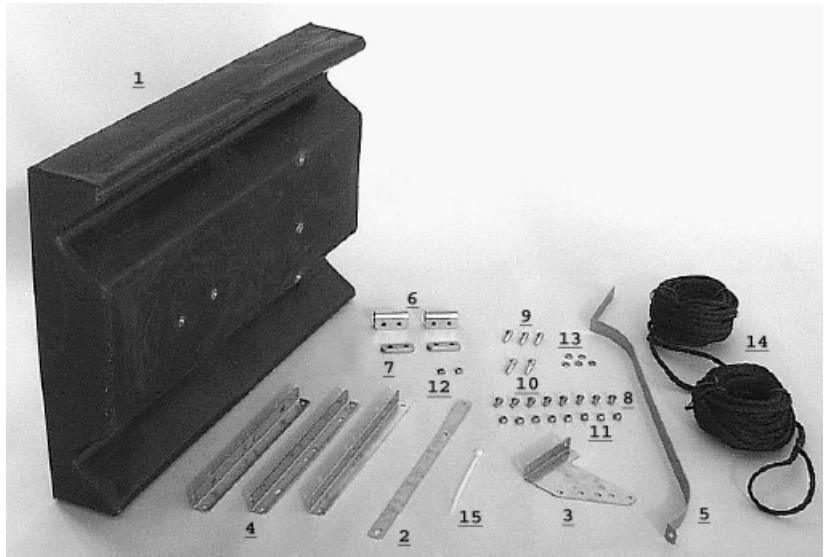


# Horizontal Float Assembly & Installation Instructions

## PARTS INCLUDED

- A. Circulator (Unit with cord) (1)
- B. Float in separate box (1) (Diagram to Right)
  - 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)



## TOOLS & SUPPLIES NEEDED

- 7/16" Wrench (1)
- 7/16" Socket & Ratchet (1)
- Felt-Tip Marker (1)
- Anchors or Stakes for Installation (2)
- 12" pieces of 1" galvanized pipe for weighting ropes (optional) (2)

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

### **STEP TWO**

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



### **STEP THREE**

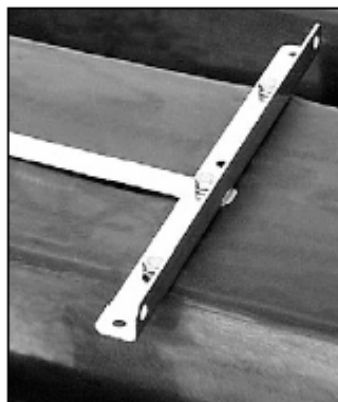
Position the Adjustment Bracket over the two holes at the back end of the Float and Base Strap. Loosely secure the Adjustment Bracket to the Float using two 1/4" x 1/2" Stainless Steel Bolts and two Stainless Steel Lock Washers. (See photo above for orientation.)

### **STEP FOUR**

Place one of the three Angle Brackets 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 on the next page for specific instructions based on the size circulator purchased.) Tighten all hardware at this time with the 7/16" socket and wrench.



Models F2400, F3400 and 4400 - Angle posterior to bolts.



Model 8400 - Angle anterior to bolts.

### STEP SEVEN

Insert the Spacer Bracket under the U-Bracket and inside the cage. Secure this assembly using one 1/4" x 1" Bolt and a 1/4" Lock Nut, and one 1/4" x 1-1/4" Bolt and a 1/4" Hex Nut. 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" 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 FIVE

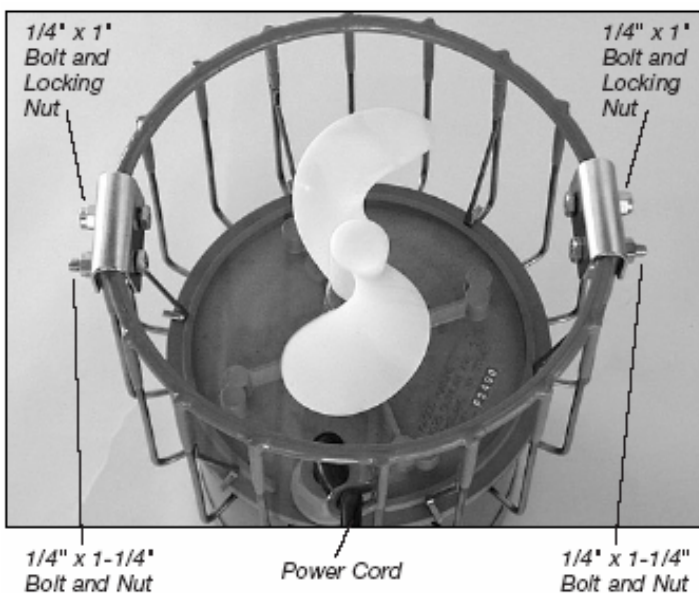
With a felt-tip marker, draw three to four marks around the circumference of the motor housing at the appropriate measurement from the back (or bottom) of the motor housing given below:

- Model F2400: 3/4"
- Model F3400: 3-3/8"
- Model 4400: 3-3/8"
- Model 8400: 3-1/4"



### STEP SIX

Place the two U-Brackets 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. (See pictures on next page)

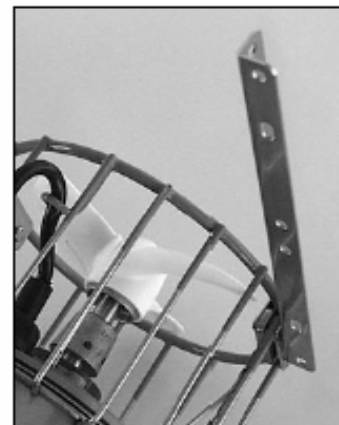


### STEP EIGHT

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.



Models F2400, F3400 and 4400



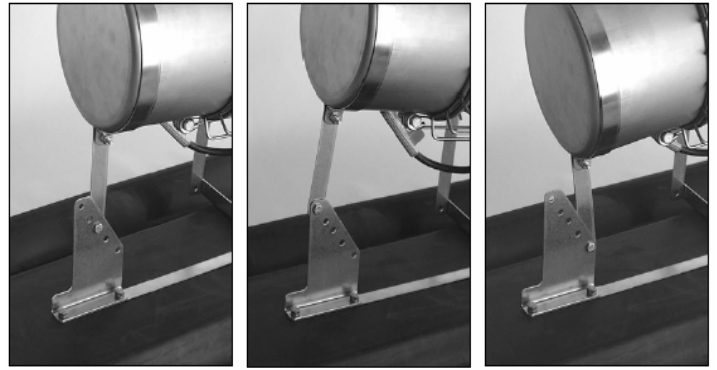
Model 8400

### STEP NINE

Wrap the Draw Band around the motor 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 on next page.)



Step Nine



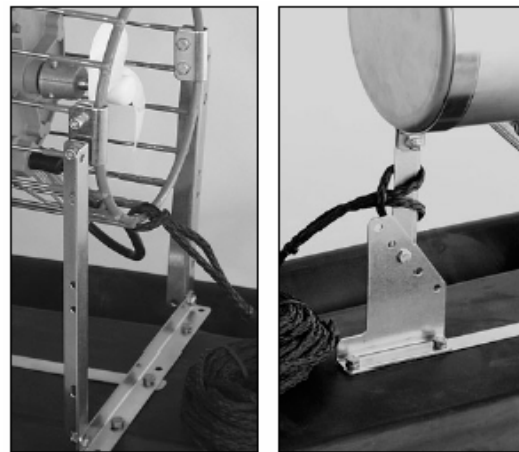
Horizontal

Angled Up

Angled Down

### 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, attach the Strain Relief to the cage of the unit and double check the threaded collar on the Quick Disconnect to ensure it didn't loosen during shipping.

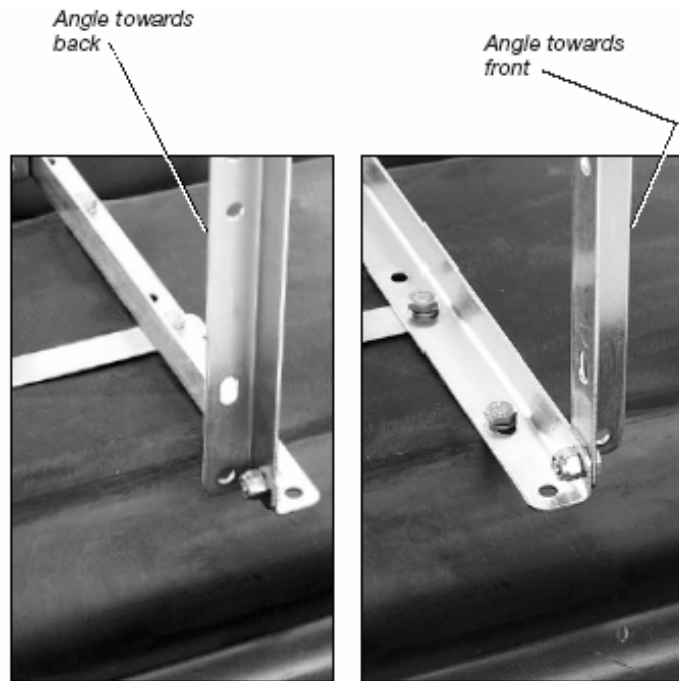


### STEP THIRTEEN

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. (Circulator 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 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.



Models 2400, 3400  
and 4400

Model 8400

### 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 (three are pictured on next page). We do not recommend the two outer (most upward and most downward) mounting positions for 8400 models.



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