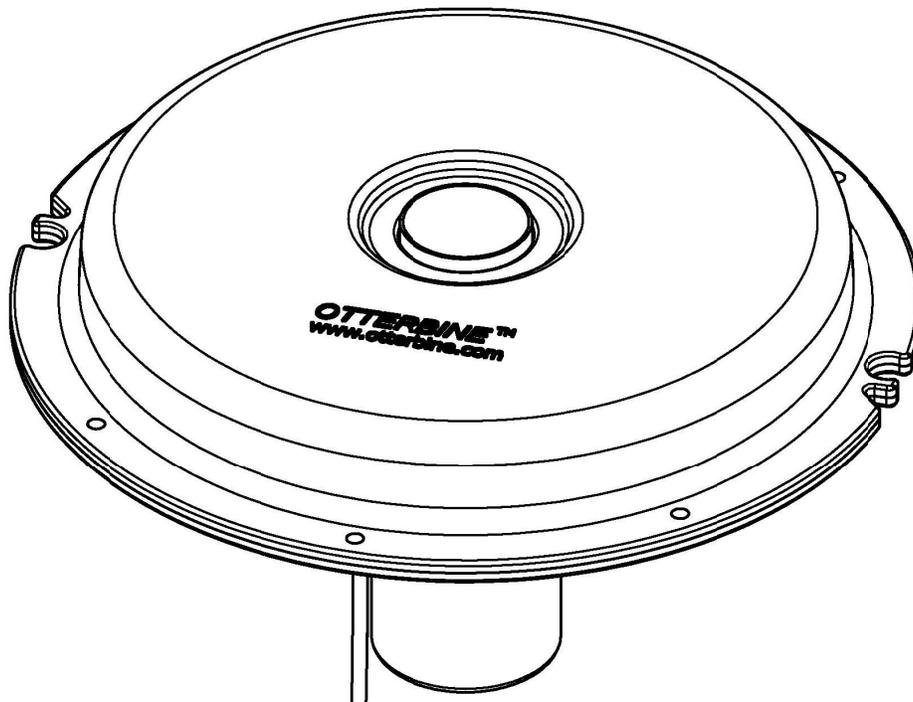
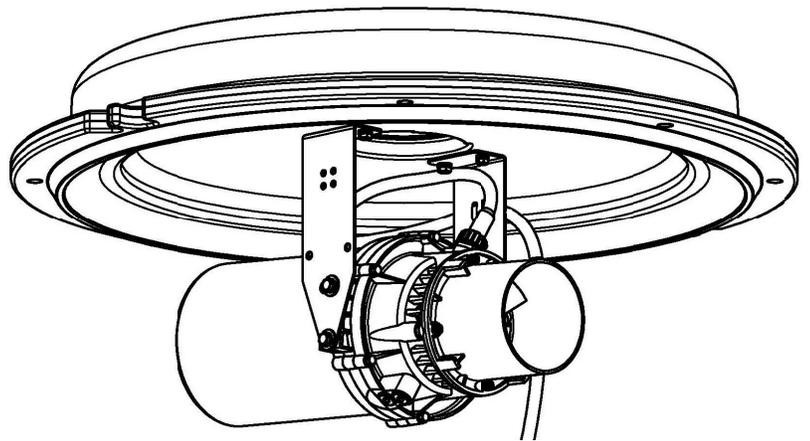
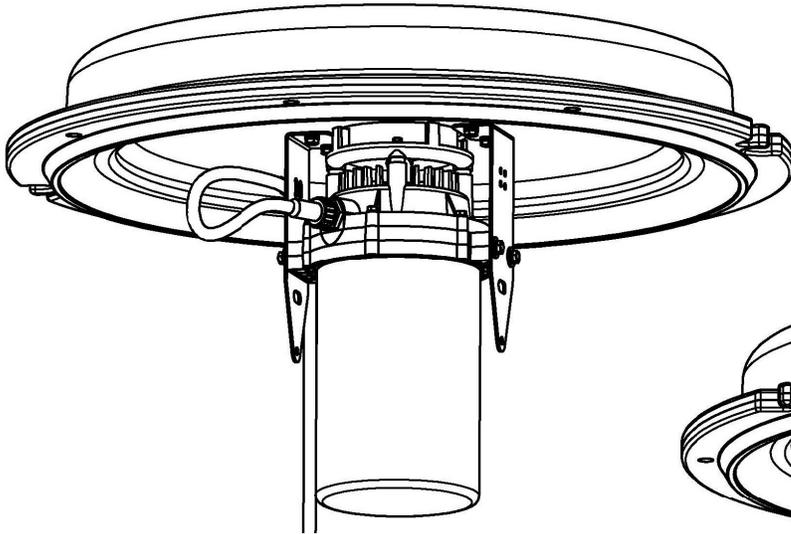




Otterbine Barebo Inc. Fractional Series CE Installation Manual



SAFETY

ALL ELECTRICAL WORK MUST BE PERFORMED BY A QUALIFIED LICENSED ELECTRICIAN AND CONFORM WITH ALL APPLICABLE ELECTRICAL SAFETY CODES

CAUTION: Power to the unit must be supplied through a residual current device (RCD) having a rated residual operating current not exceeding 30mA and all equipment must be properly grounded

CAUTION: Do not operate the equipment when people are in the water, always turn off all equipment before servicing or performing any maintenance

CAUTION: KEEP HANDS CLEAR OF THE IMPELLER WHEN OPERATING!

Physically disconnect equipment from the power source before entering, wading in or swimming in the water.



WARNINGS

- The operating temperature range for this equipment is -12° to 40° C; 10° to 104° F.
- If the power cord becomes damaged, it must be replaced by an authorized Otterbine distributor.

INSPECT EQUIPMENT

Inspect your equipment and immediately report any shipping damage to the carrier that delivered your unit.

Unit - Check the nameplate located on the housing of the unit to make sure you have received the correct horsepower and voltage unit.

Power Control Center - Verify the PCC is compatible with the unit horsepower and voltage. Refer to the electrical specifications on the nameplate located inside on the door of the PCC when supplied by Otterbine.

Power Cable Assembly - Verify the correct cable gauge and length.

FOR PROPER WARRANTY CONSIDERATION RETURN THE WARRANTY REGISTRATION CARD OR REGISTER ONLINE AT www.otterbine.com/warrantyform

ELECTRICAL INSTALLATION

ALWAYS DISCONNECT EQUIPMENT FROM ELECTRICAL SUPPLY BEFORE SERVICING OR PERFORMING MAINTENANCE

Caution: RCD Protection is required. If RCD protection is not used, serious or FATAL electrical shock may occur.

Feeder conductors must be properly sized to allow for no more than 5% system voltage drop, from the feeder source to the unit. Failure to do so may damage the unit and void product warranty.

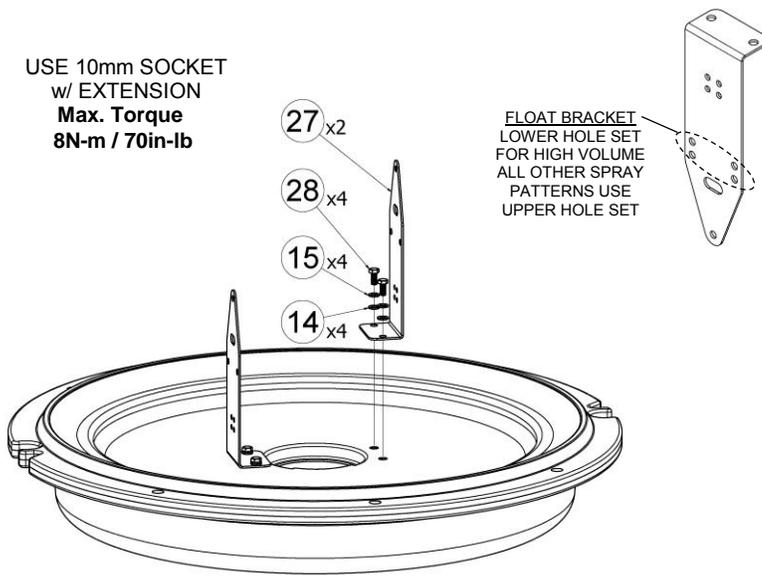
Fractional Series 50Hz. Electrical Specifications				
HP	Volts	Phase	Full Load Amps	Maximum 12AWG Cable Length
1/2	220-240	1	2.6 – 2.8	600

PCC Location

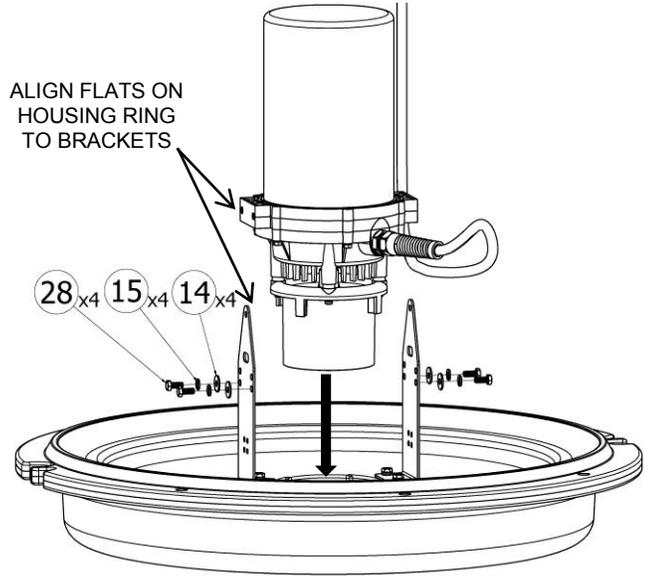
1. The power control center **shall not** be accessible from the water.
2. Whenever possible do not mount the PCC in direct sun light.

FRACTIONAL SERIES AERATING FOUNTAIN ASSEMBLY

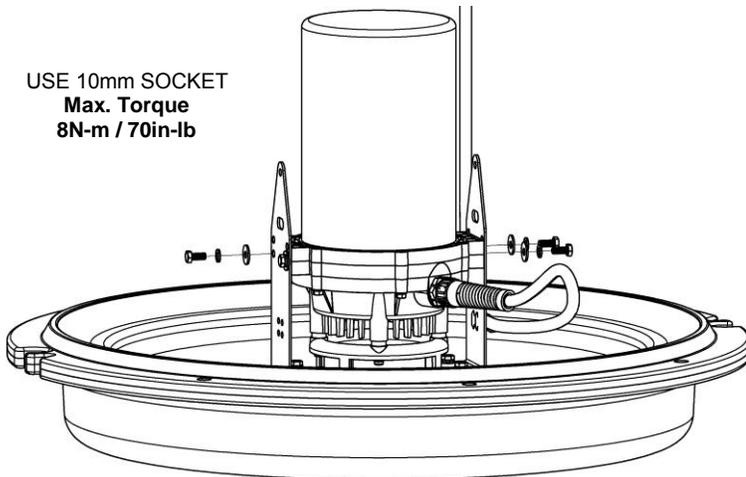
STEP 1 – FASTEN BRACKETS TO FLOAT



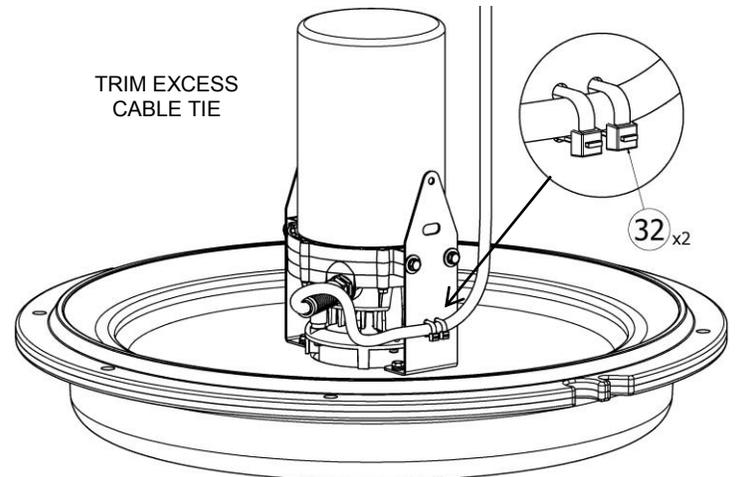
STEP 2 – PLACE POWER UNIT BETWEEN BRACKETS



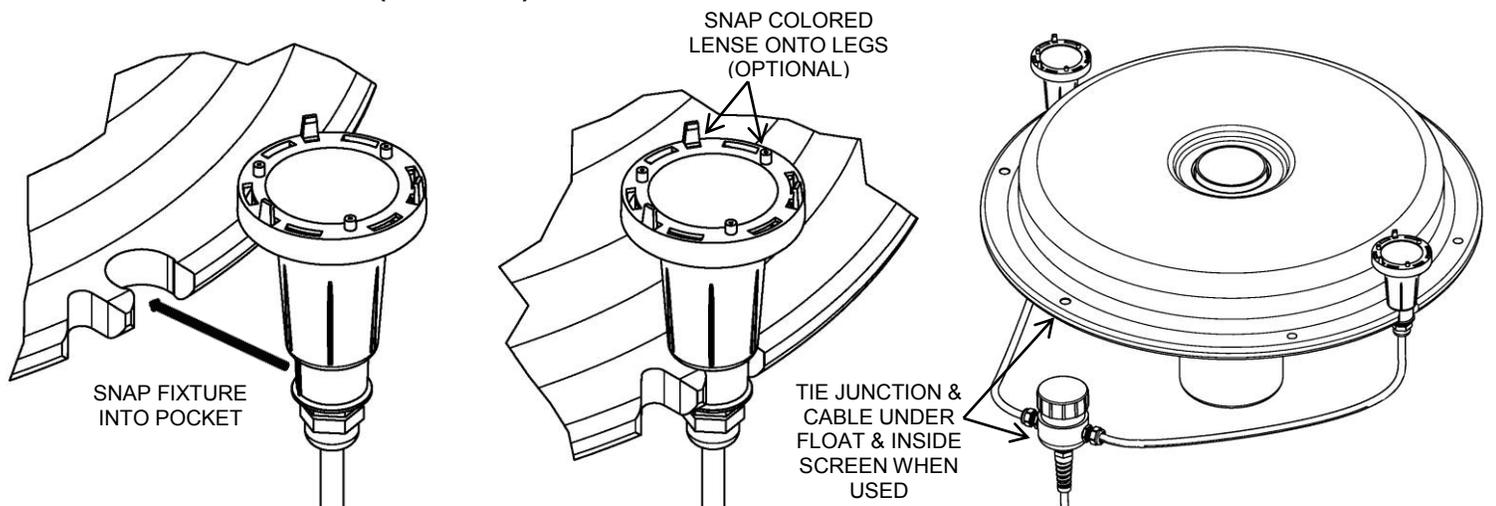
STEP 3 – POSITION UNIT & TIGHTEN BOLTS



STEP 4 – INSTALL STRAIN RELIEF CABLE TIES

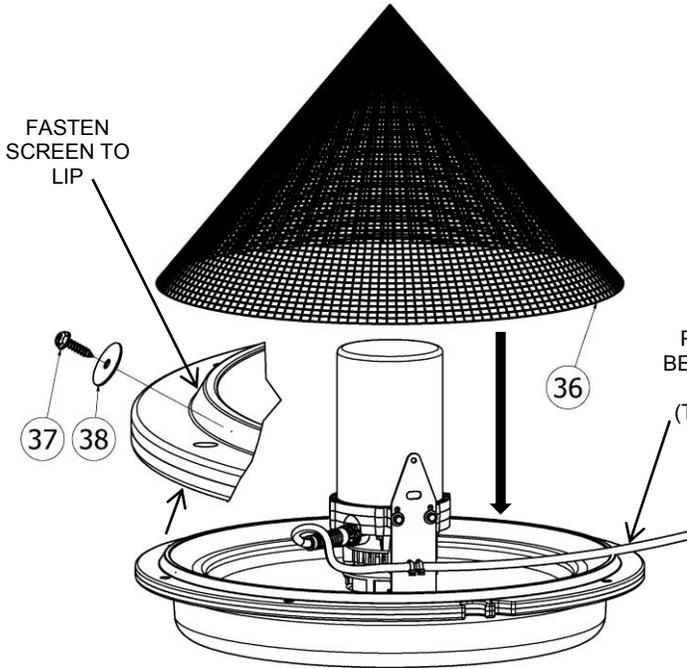


STEP 5 – ATTACH LIGHTING (OPTIONAL)



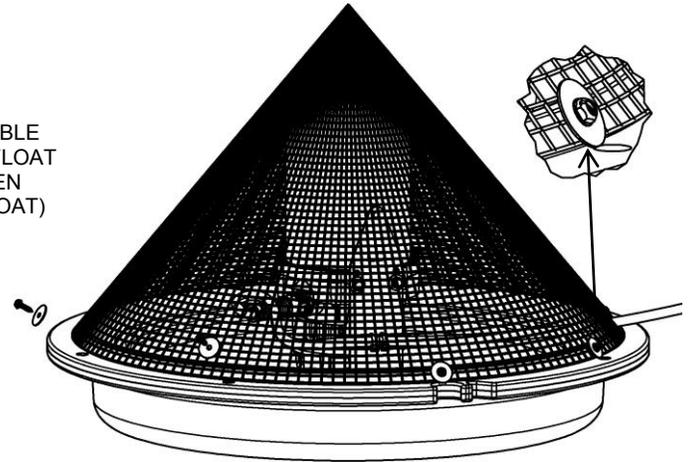
STEP 6 – ATTACH SCREEN (NOT USED WITH MIXER)

**WHEN NOT USING SCREEN REPLACE SCREWS INTO HOLES
ALWAYS PLUG OR SEAL UNUSED HOLES IN FLOAT**



USE SCREEN TO PREVENT PUMP CHAMBER
CLOGGING DUE TO LARGE DEBRIS
(GEMINI & HIGH VOLUME LESS PRONE TO CLOGGING)

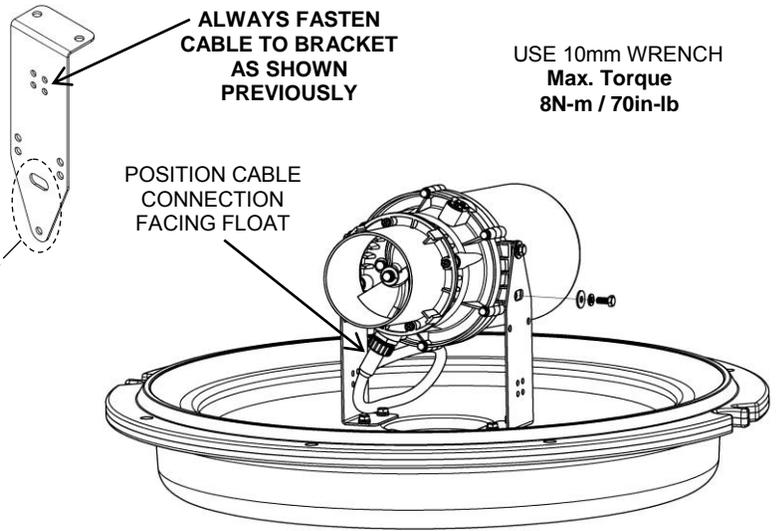
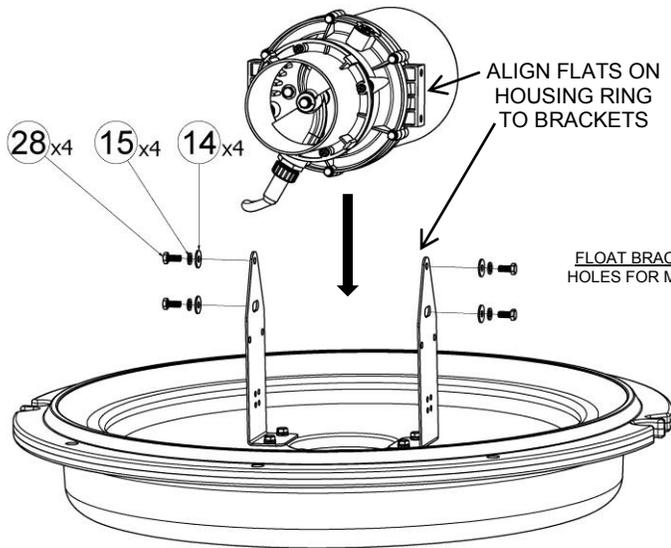
FASTEN SCREEN (8) PLACES EVENLY SPACED
USE DRIVER OR PRE-DRILL 2.5mm (3/32") HOLES



FRACTIONAL SERIES MIXER ASSEMBLY

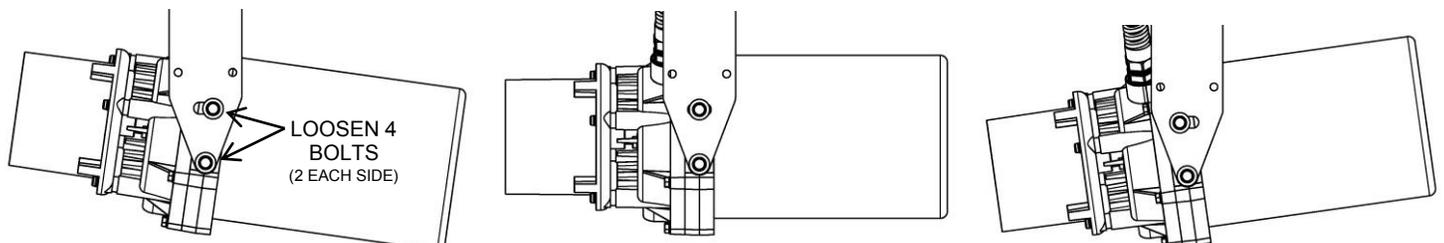
STEP 1 – PLACE POWER UNIT BETWEEN BRACKETS

STEP 2 – POSITION UNIT & TIGHTEN BOLTS



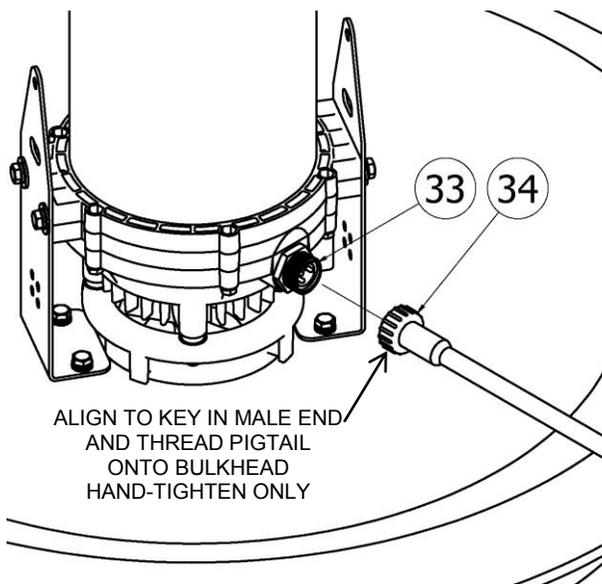
FRACTIONAL SERIES MIXER PITCH ADJUSTMENT

LOOSEN BOLTS, POSITION & TIGHTEN Max. Torque 8N-m / 70in-lb



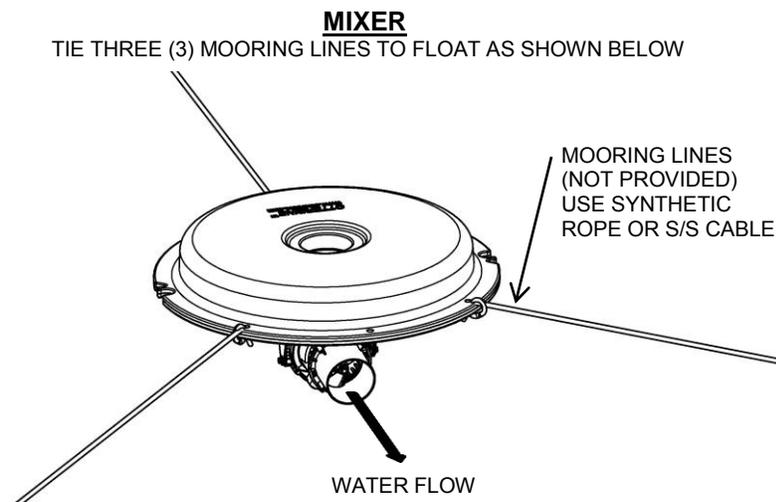
PREPARE UNIT TO LAUNCH

STEP 1 – ELECTRICAL CONNECTOR



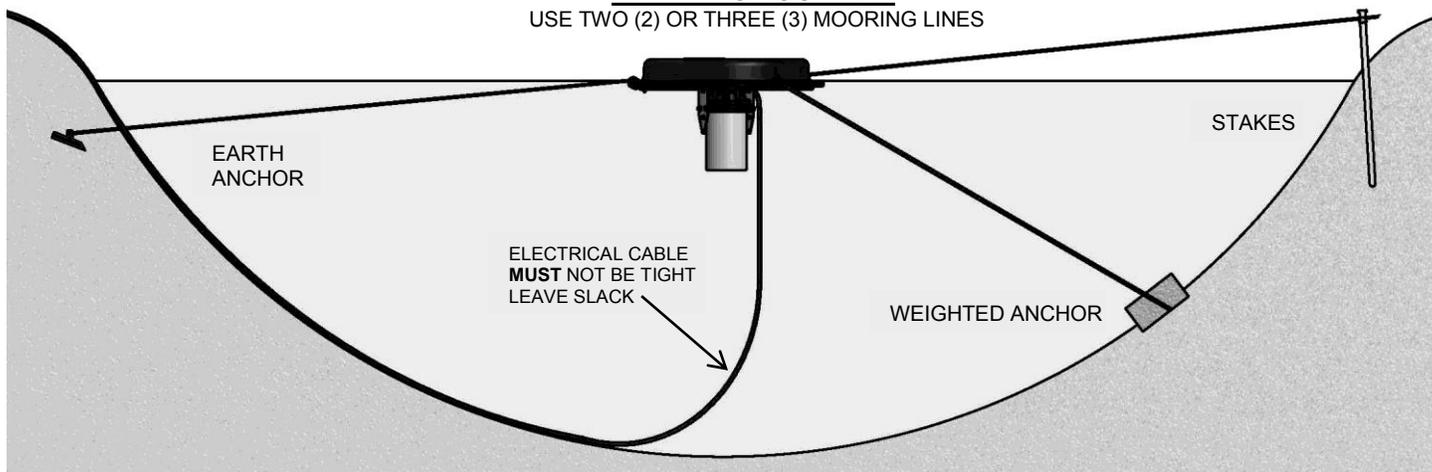
STEP 2 – FASTEN MOORING LINES & LAUNCH

TIE THE MOORING LINES TO SHORE MOUNTED STAKES, EARTH ANCHORS OR WEIGHTED ANCHORS (USE A MINIMUM OF 7kg/15lb EACH)



AERATING FOUNTAIN

USE TWO (2) OR THREE (3) MOORING LINES



TO PREVENT DAMAGE TO YOUR FRACTIONAL SERIES

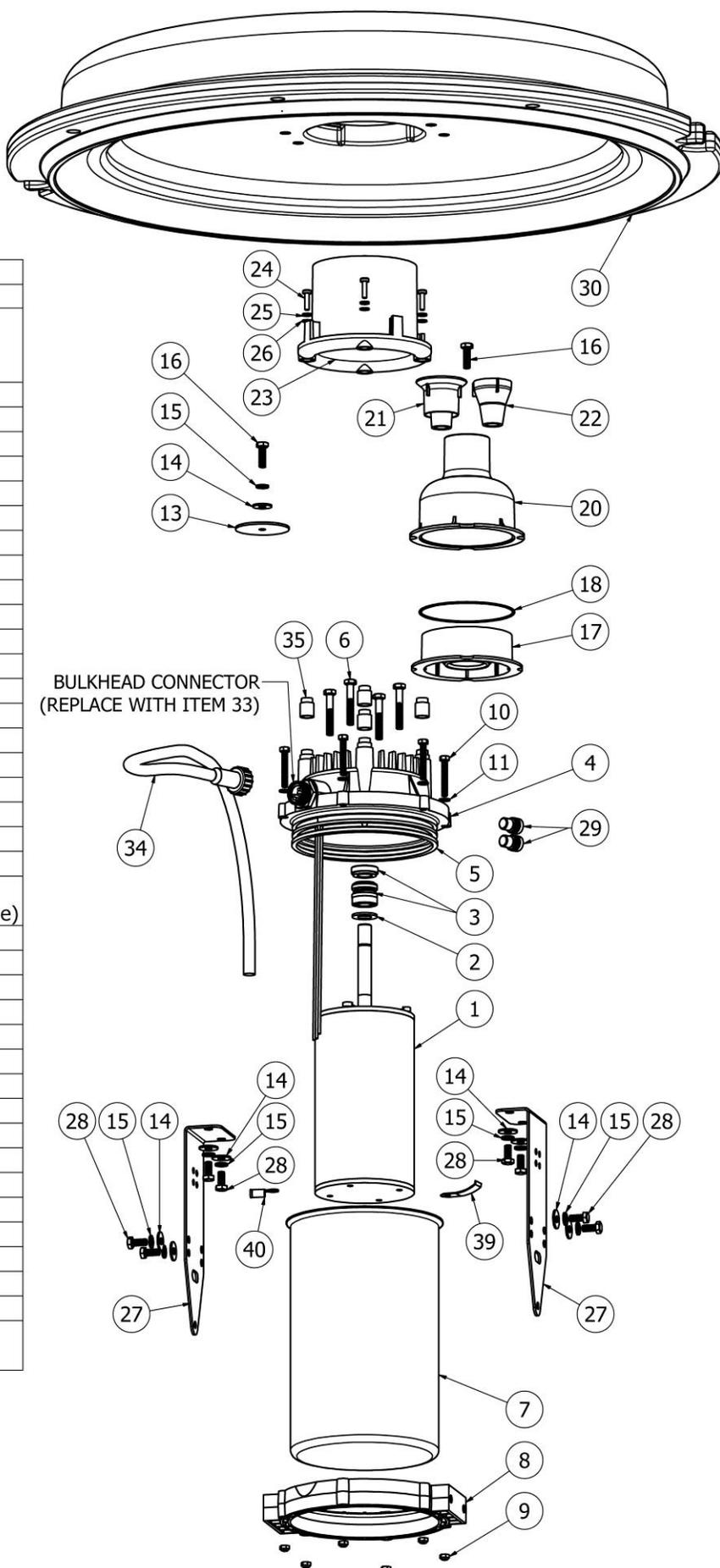
!Warning!

**DAMAGE CAUSED DUE TO FREEZING WILL NOT BE ELIGIBLE FOR WARRANTY CONSIDERATION
DO NOT ALLOW THE UNIT TO OPERATE “DRY” OUT OF THE WATER**

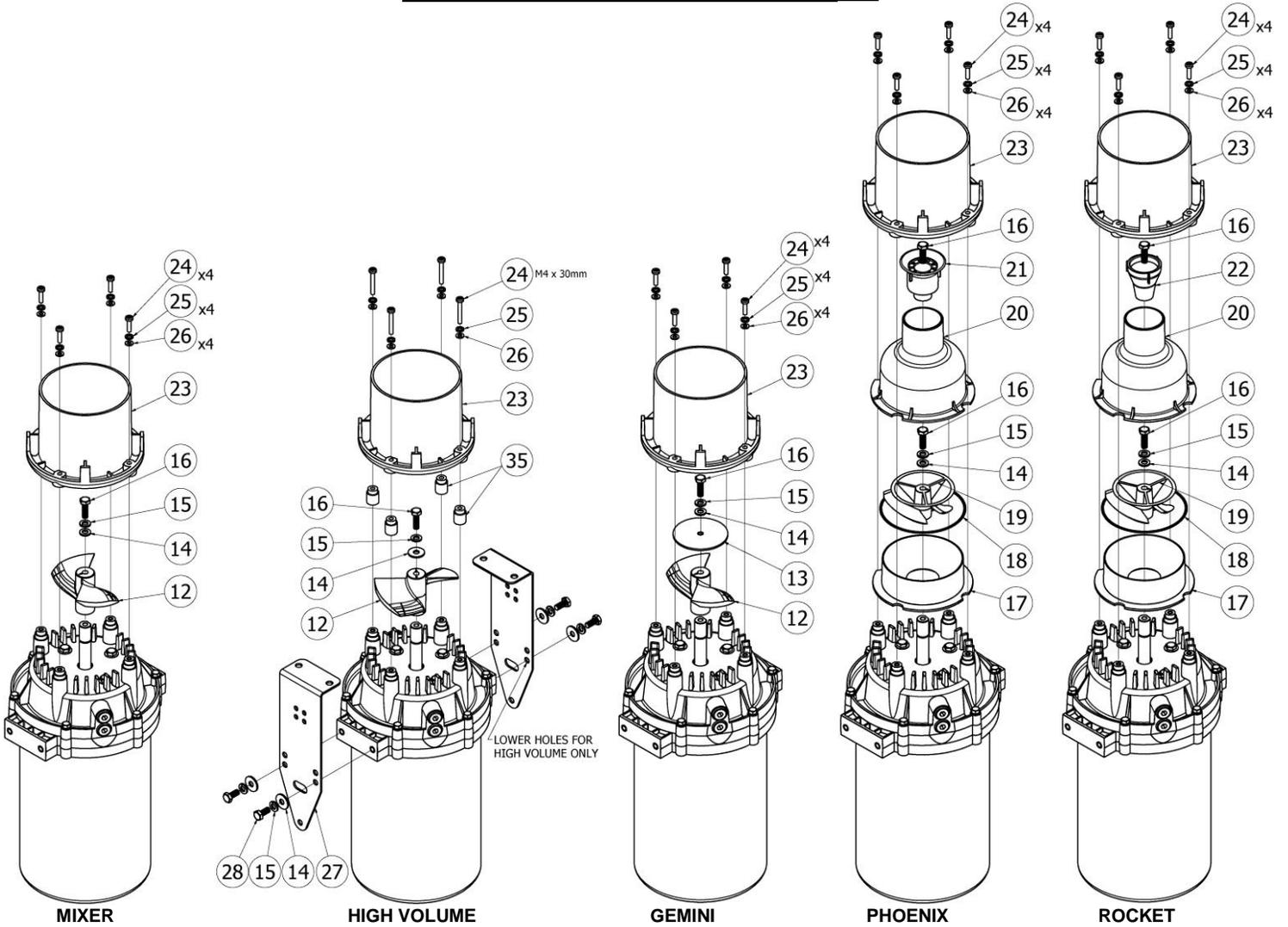
- **Never** operate the Fractional Series Fountain when not submersed (EXCEPT FOR “JOGGING” DURING TESTING)
- Remove the unit from the water when temperatures are expected below 0°C (32°F)
- For longer unit life store the unit indoors at temperatures above 0°C (32°F)
- Operating Depth is 0.4m (16in.)
- Clean debris from screen and unit intake as necessary
- Inspect and clean the throat and nozzle components as required
- Annually clean and inspect the unit and cables for physical damage

FRACTIONAL SERIES PARTS LIST & EXPLODED VIEW

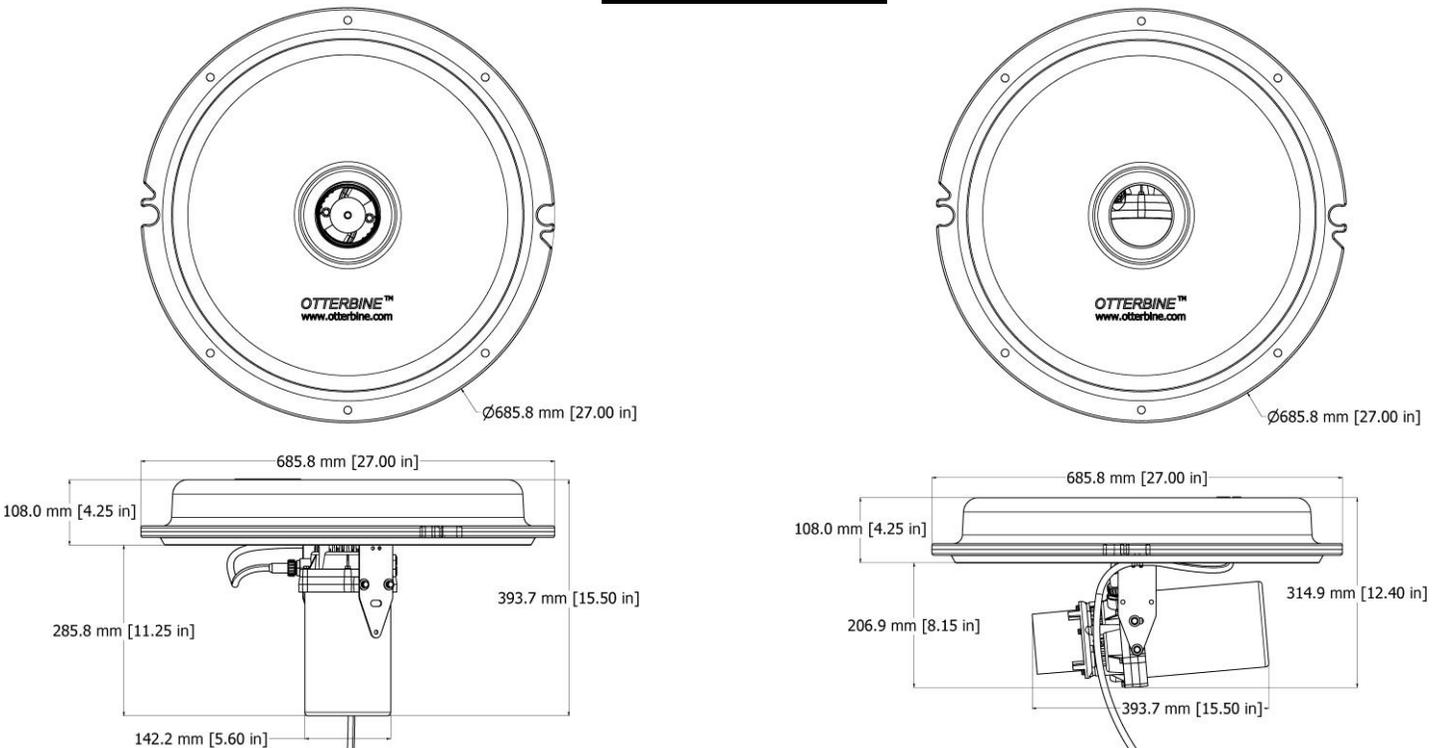
Fractional Series Parts List			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	30-0001	Motor - 1/2HP 115/230V 1Ph, 50/60Hz.
2	1	28-0005	Mechanical Seal Washer
3	1	49-0054	Mechanical Rotary Seal
4	1	42-0100	Motor Base Plate
5	1	49-0056	O-ring, Motor Base Plate
6	4	22-0040	Bolt, M6-1 x 40mm Sealing Hex
7	1	47-0012	Motor Housing, 304 S/S
8	1	42-0101	Housing Ring
9	6	26-0006	Nut, M5 Nylon Locknut
10	6	22-0006	Bolt, M5 x 35mm Hex
11	6	28-0016	Washer, M5 Flat
13	1	40-0014	Slinger Disc, 50 Hz.
14	9	28-0023	Washer, M6 Fender
15	9	28-0021	Washer, M6 Split Lock
16	2	24-0022	Bolt, M6-1 x 20mm Hex
17	1	42-0104	Intake, Decorative Impeller
18	1	49-0055	O-ring, Intake
20	1	42-0103	Chamber, Decorative Pump
21	1	42-0110	Nozzle, Phoenix
22	1	42-0111	Nozzle, Rocket
23	2	42-0102	Chamber, Open Throat
24	4	24-0010 or 24-0034	Screw, M4 x 16mm Screw, M4 x 30mm (High Volume)
25	4	28-0015	Washer, M4 Split Lock
26	4	28-0014	Washer, M4 Flat
27	4	40-0017	Bracket, Float
28	8	22-0041	Bolt, M6-1 x 14mm Hex
29	2	10-0004	Oil Plug
30	1	42-0042	Float
31	1	49-0057	O-ring, Bulkhead
32	2	GP5008	Cable Tie
33	1	12-0126	Motor Base Plate Assembly
34	1	35-0019	Connector, Harmonized Pigtail
35	4	41-0064	High Volume Throat Spacer
36	1	15-0026	Screen
37	8	BP2803B	Screw, 10 x 3/4" S/S Hex Head
38	8	800-011	Washer, 10 x 1" S/S Fender
39	1	47-0002	Ground Clip
40	1	178-003B	Connector, Ring
	1	13-0007	Motor Unit, CE Harmonized 230V/1Ph/50Hz



PATTERN COMPONENT ASSEMBLY



UNIT DIMENSIONS



INTENTIONALLY BLANK

Limited 2 Year Warranty
Otterbine® Product

WARRANTY: Barebo, Inc 3840 Main Road East, Emmaus Pennsylvania 18049,U.S.A. hereby warrants, subject to the conditions herein below set forth, that should the **OTTERBINE** product prove defective by reason of improper workmanship or materials at any time during the warranty period the Purchaser at retail will be guarantee that **BAREBO** will repair or replace the said **OTTERBINE** product as may be necessary to restore it to satisfactory operating condition, without any charge for materials or labor necessarily incident to such repair or replacement, provided that:

- a) For proper warranty consideration register on line at: www.otterbine.com/warrantyform and/or return the warranty registration card by mailing it to **BAREBO** within fifteen (15) days of the original receipt by the Purchaser at retail in order to avoid delays:

- b) The **OTTERBINE** product must be delivered or shipped, prepaid, in its original container or a container offering an equal degree of protection, to **BAREBO** or a facility authorized by **BAREBO** to render the said repair or replacement services or, if purchased from an authorized **OTTERBINE** dealer, to such dealer;

- c) The **OTTERBINE** product must not have been altered, repaired or serviced by anyone other than **BAREBO**, a service facility authorized by **BAREBO** to render such service, or by an authorized **BAREBO** dealer, and the serial number of the **OTTERBINE** product must not have been removed or altered: and

- d) The **OTTERBINE** product must not have been subjected to lightning strikes and other Acts of God, vandalism, freezing-in, accident, misuse or abuse, and must have been installed in conformance with applicable electrical codes (including proper electrical protection), and also installed, operated and maintained in accordance with guidelines in the Owner's Manual shipped with the Otterbine product.

No implied warranties of any kind are made by **BAREBO** in connection with this **OTTERBINE** product, and no other warranties, whether expressed or implied, including implied warranties of merchantability and fitness for a particular purpose, shall apply to this **OTTERBINE** product. Should this **OTTERBINE** product prove defective in workmanship or material, the retail Purchaser's sole remedy shall be repair or replacement as is hereinabove expressly provided and, under no circumstances, shall **BAREBO** be liable for any loss, damage or injury, direct or consequential, arising out of the use of, or inability to use, the **OTTERBINE** product, including but not limited to retail Purchaser's cost, loss of profits, goodwill, damages due to loss of product or interruption of service, or personal injuries to Purchaser or any person.



Water Works With Otterbine!

FOR FURTHER INFORMATION OR INSTRUCTIONS ON OTTERBINE PRODUCTS

VISIT OUR WEBSITE:

www.otterbine.com

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