



## DA-20 Display Aerator Aerating Fountain

We at U.S. Solar Mounts thank you for your purchase. It is our goal to ensure that you are completely satisfied with your new Display Aerator and that it continues to operate smoothly for many years to come. Please take a few moments to read through this document for proper assembly, installation and maintenance to maximize the operating life of the unit.



### This Kit Includes

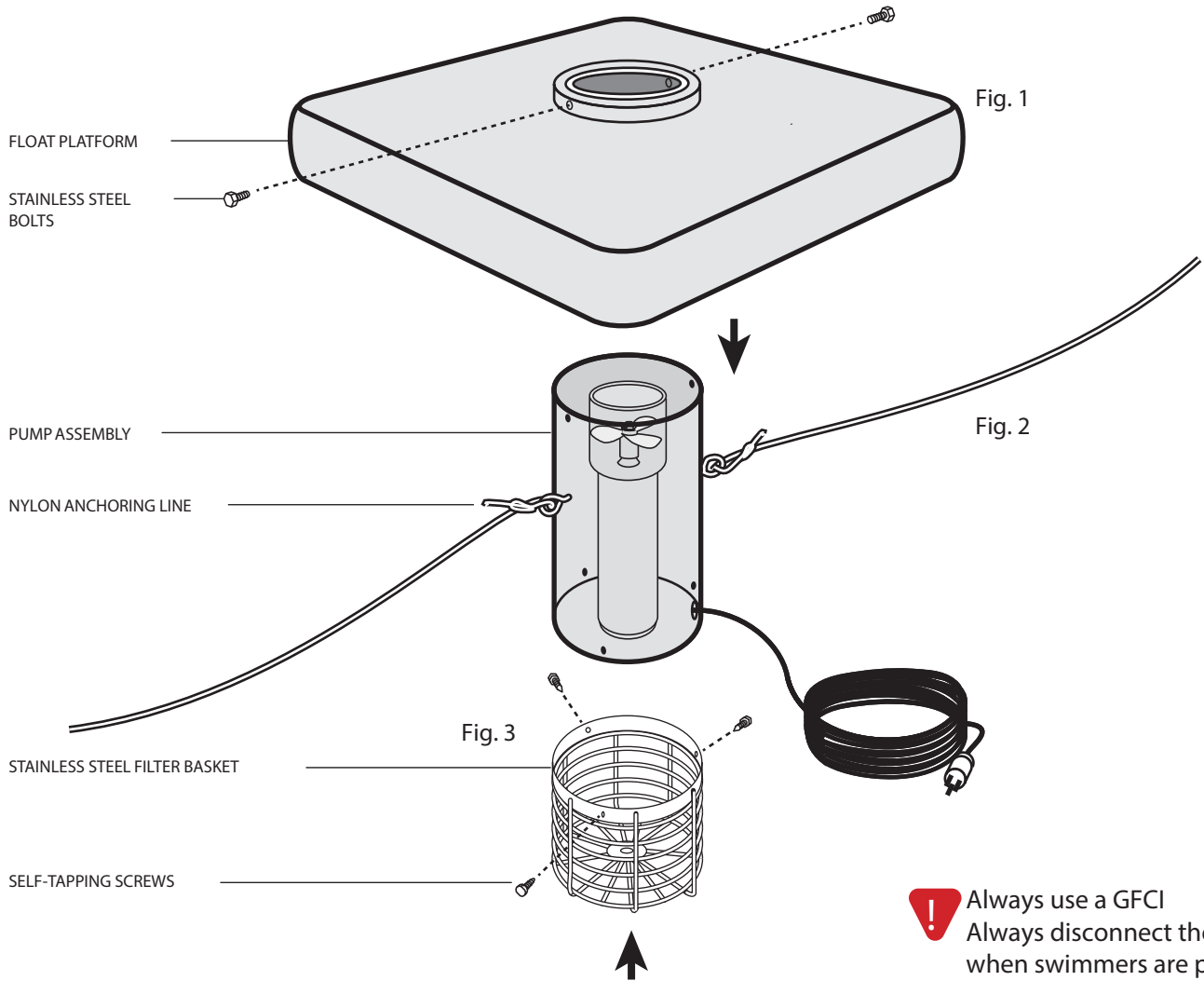
- 1 - FLOAT PLATFORM
- 1 - PUMP ASSEMBLY
- 1 - STAINLESS STEEL WIRE BASKET
- 3 - SELF TAPPING SCREWS


### Tools Needed


- ONE 3/8" WRENCH OR SOCKET SCREWDRIVER
- TWO 1/2" WRENCHES (OR PLIERS)

## Assembly Instructions

1. Remove the two stainless steel bolts from the float. Fig. 1
2. Place pump assembly on end, propeller side facing up. Slip the float platform, with the Scott Aerator name and phone number facing up, over the pump assembly, aligning the two holes on the float platform to the pre-drilled holes on the pump assembly. Use the pre-drilled holes to fasten the float platform to the pump assembly, using the two stainless-steel bolts.
3. Turn the pump and float assembly over and place on its opposite end. Remove and discard the protective packaging and secure the stainless-steel filter basket by aligning the three filter holes to the pre-drilled holes on the pump assembly and securing with the enclosed self-tapping screws. Fig. 3
4. Secure a 3/8" or thicker nylon anchoring line (not provided) to each of the two attached eyebolts. Fig. 2 Make sure lines are long enough to extend outwards, 25 feet apart at a 45° angle to the pond or lake bottom.
5. At this point, your Display Aerator can be floated into position in your pond or lake. Once a suitable location is determined, simply attach a boat anchor, concrete block, or similar weighted item to each of the two nylon lines (refer to Fig. 5 for minimum anchor weight for your size aerator). Once attached, place the anchors at the bottom of the pond spaced a minimum of twenty-five feet apart. nd
6. The final step is to supply electric power to your Display Aerator, taking extra caution to **always use a ground fault circuit interrupter and a licensed electrical contractor** . See Fig. 6 for guidelines on supplying power.



 Always use a GFCI  
Always disconnect the power  
when swimmers are present

 Do NOT use an extension cord  
to supply power to the motor

## Maintaining your DA-20 Display Aerator

Most of our products require very little to any maintenance. Under normal operating conditions, you should enjoy many years of trouble free service from the unit. As a rule of thumb, the propeller assembly on our aerator fountains should be changed every five years. This is a simple procedure that can be done on-site. Refer to Fig. 4 for replacement parts. Anchoring ropes, depending on type, will deteriorate over time. These too should be replaced every five years if quality nylon rope (3/8" or thicker) is utilized. When the unit is removed from the water for the propeller and rope switch, it would be a good opportunity to wash the unit down with high pressure water. Once the unit is clean, a visual inspection of the entire aerator is recommended to be certain nothing is restricting water flow.

The DA-20 Display Aerator has been engineered to eliminate the need for time consuming and costly winterizing products and procedures. **Removing the Aerator from the water each winter will dry out and potentially damage the pump seals.** Simply leave your aerator in the water, turn the power supply off, and forget about it for the winter. Once the water thaws in the spring, re-establish power to the unit and you're good to go. All of the components will withstand sub-zero conditions without damage.

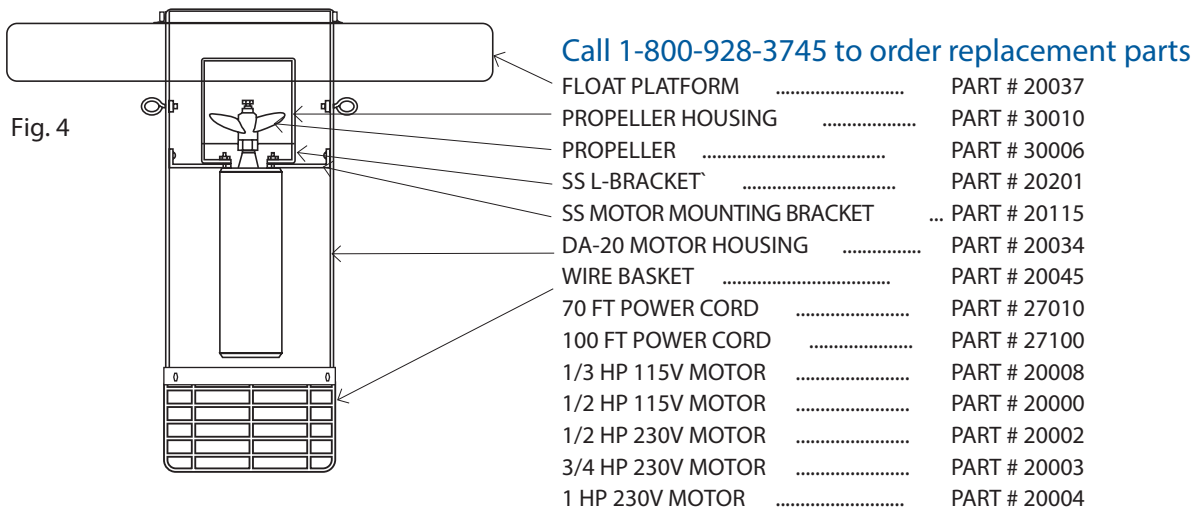


Fig. 5

	MOTOR RATING							
	1/3 HP 115V	1/2 HP 115V/230V	3/4 HP 230V	1 HP 230V	1-1/2 HP 230V	2 HP 230V	3 HP 230V	5 HP** 230V
WATTS	630	670	680	1217	1770	2025	3000	4830
AMPS	8	10/5	7	8.2	10.6	12	13.5	18.5
SPRAY HEIGHT	5'	6.5'	6.8'	7'	10'	11'	11'	11'
SPRAY DIA (FT)	18'	22'	23'	25'	25'	28'	30'	30'
GALLONS/MIN	300	400	450	500	600	700	800	900
MIN ANCHOR WT (ea)	20 lbs	25 lbs	20 lbs	35 lbs	45 lbs	45 lbs	55 lbs	75 lbs
POWER CORD* 12 GAUGE	70'	70'	70'	70'	100'	100'	100'	100'

\*Longer power cords available \*\* 5HP motor incorporates 10 gauge power cord

To find the cost to run one item:

1. Total up the watts per day for the item to get total watts/day.
2. Divide total watts/day by 1000 to get the total kilowatt hours (kWh) per day.
3. Multiply the kWh/day times the cost per Kwh to get cost/day.
4. To find out the average cost per month, multiply the cost/day by 30. (Power company monthly billing cycles vary from 28-33 days)

Fig. 6

MOTOR RATING	CABLE SIZE and MAX LENGTH FROM PUMP TO BREAKER*					
	#12	#10	#8	#6	#4	#2
1/3 HP 115V	170'	270'	420'	670'	1025'	1575'
1/2 HP 115V	160'	250'	390'	620'	960'	1460'
1/2 HP 230V	650'	1020'	1610'	2510'	3880'	5880'
3/4 HP 230V	480'	760'	1200'	1870'	2890'	4370'
1 HP 230V	400'	630'	990'	1540'	2380'	3610'
1-1/2 HP 230V	310'	480'	770'	1200'	1870'	2850'
2HP 230 V	250'	390'	620'	970'	1530'	2360'
3 HP 230 V	190'	300'	470'	750'	1190'	1850'
5 HP 230 V	n/a	180'	280'	450'	710'	1110'

Refer to the chart left to determine the proper cable size and length for your particular pump. The maximum lengths listed are from the pump motor to the circuit breaker, not to the plug in. Improper wire size can cause unsafe operating conditions and damage the pump. **DO NOT use an extension cord to supply power to the motor** as this will put strain on and shorten the life of the pump motor.