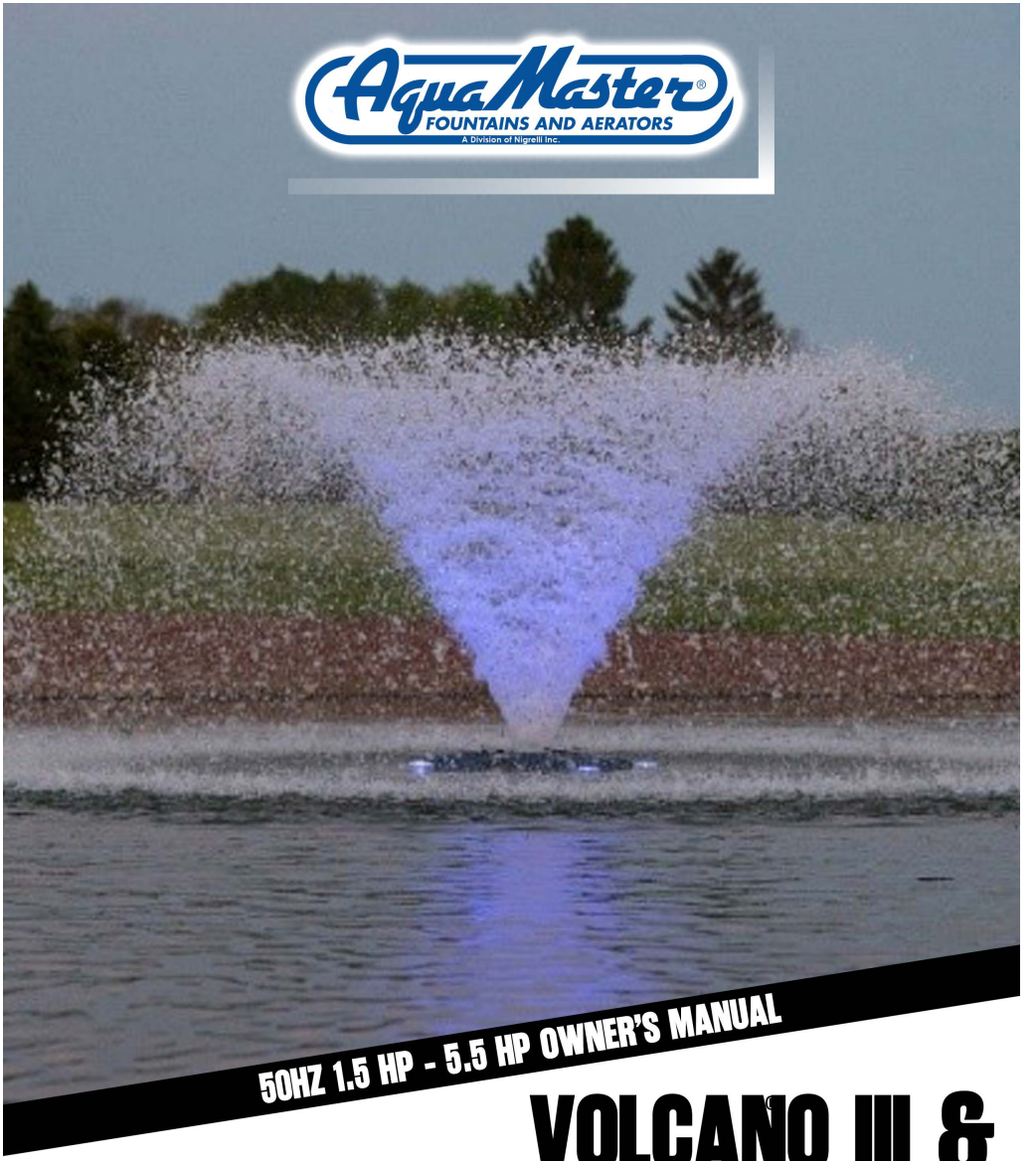


50HZ 1.5 HP - 5.5 HP OWNER'S MANUAL

VOLCANO III & HYDROMAX SERIES

Every **AquaMaster®** unit is fully inspected and produced in accordance with applicable standards for safety, and are listed by Underwriters Laboratories, Inc. (UL) for safety in the USA and Canada. **AquaMaster®** will continue to build the best units to assure you, the customer, of many years of enjoyable and reliable service. AquaMaster's commitment to excellence ensures superior aquatic management systems.

All **AquaMaster®** products are designed and built to be installed with an **AquaMaster®** UL Listed control panel and to be operated as a complete system. Any alterations to or substitution for items in this system, unless allowed by these installation instructions, will **void** the UL Listing and will void the product warranty. **It may also create a hazardous installation.** Read these instructions thoroughly before starting your installation and follow them carefully throughout.

WARNING

NOTICE: Save and pass the installation, anchoring and operating instructions to subsequent owners. The information provided is intended to notify and warn about making unsafe modifications, making unsafe repairs, or using unauthorized parts or repair facilities.

Improper installation, operation, service, repair, maintenance or alteration of this product may result in property damage or bodily injury.

Turn **OFF** electrical power at disconnect switch or service panel before servicing this unit or lighting system.

Risk of electric shock! This pump or lighting system has not been investigated for use in swimming pool or marine areas. **DO NOT use in swimming or marine areas.**

Only qualified personnel shall service and install **AquaMaster®** pumps or lighting systems. Installation and service to be in accordance with the National Electric Code and local codes and/or ordinances. This unit is intended to be operated only after it is properly installed, anchored and wired.

Risk of electrical shock! **DO NOT** operate this unit dry unless testing for proper rotational/ mechanical function (see electrical connections, later in this manual). If this unit has been inadvertently operated out of the water, the unit must be serviced by a qualified person before being returned to service.

Risk of electric shock! This pump and lighting system is supplied with a grounding conductor. To reduce the risk of electric shock, be certain that it is connected only to a proper ground. Use a copper conductor of the correct size from the grounding terminal in the control box to a grounding connection in the service panel.

This pump and lighting fixtures are provided with flexible underwater cable and strain relief. **DO NOT** remove as electrical shock and/or damage to this unit or lighting system could occur.

Risk of electrical shock! **DO NOT** remove the wire harness from the pump housing or underwater disconnect. **DO NOT** connect conduit to pump.

This unit and lighting system is intended for water use only. **DO NOT** operate out of the water unless checking for proper mechanical/electrical function.

This lighting system is intended to be used with the **AquaMaster®** floating fountain or aeration systems only. **DO NOT** use this fixture in any other manner.

Risk of electrical shock! Submerse lighting fixtures before turning on.

This pump and lighting fixtures are for fresh water only.

TABLE OF CONTENTS

SHIPPING CLAIMS

When you receive your **AquaMaster®** unit, examine the package for any signs of external damage it may have sustained enroute. If there is apparent damage either outside the box or to its contents, make a claim with the shipper immediately. Save the original shipping carton and the packing material if a claim is to be filed.

VOLCANO III 1.5 – 5.5HP ASSEMBLY INSTRUCTIONS
(Optional Etna Pattern Assembly Instructions shown on page 8)

WARNING: Read these instructions carefully. Failure to follow these instructions could cause a malfunction of the system. Improper installation, wiring or anchoring could result in property damage or bodily injury.

The fountain has been shipped partially assembled to avoid damage during shipment.

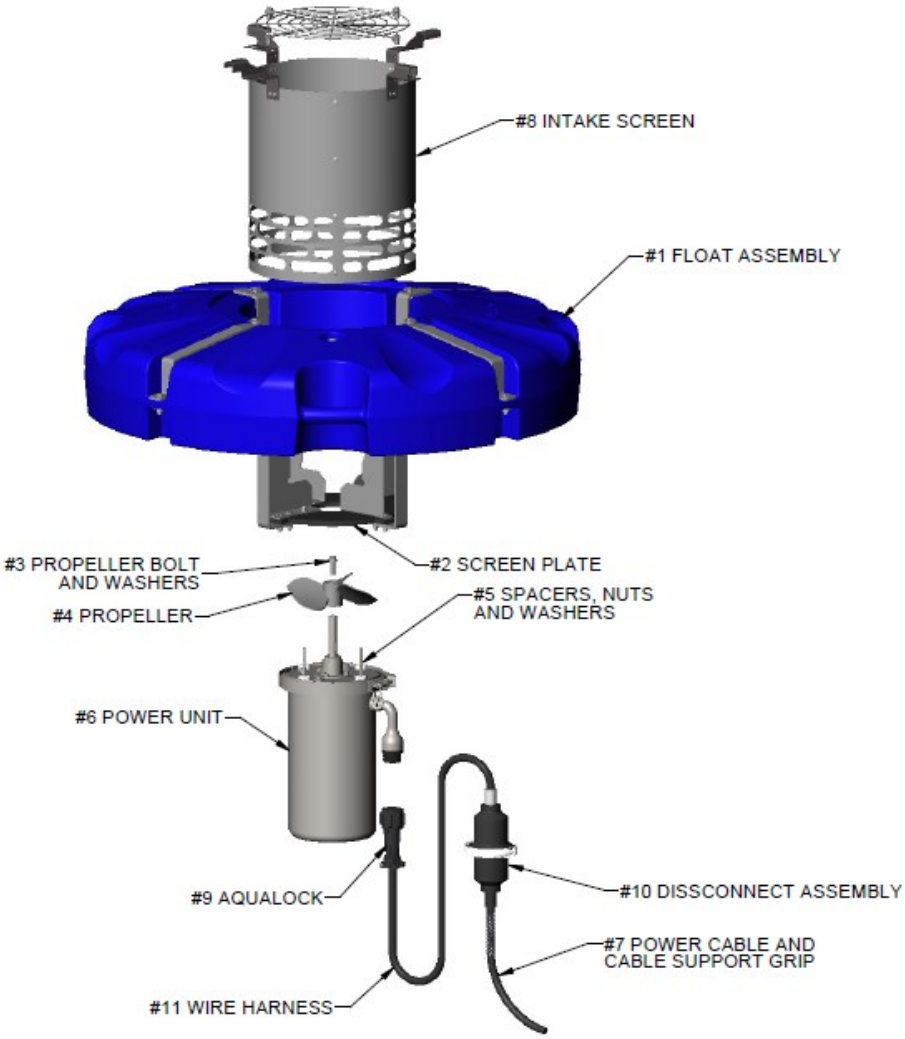
1. Carefully unpack the fountain and inspect for damage.
2. Place the power unit upright on a flat, level surface.
3. Remove the nuts and washers (#5) from the spacers on the power unit (#6).
4. Remove easy-clean screen from fountain.
5. Remove the propeller (#4) from the power unit (#6).
6. Lower the float assembly (#1) onto the studs and securely attach float assembly to the power unit with washers, lock washers and nuts.
7. Reinstall propeller (#4) on motor shaft, secure with propeller bolt, flat washer and lock washer (#3).
8. Use two (2) 9/16” wrenches or 5/8” and 9/16” wrenches, one on motor shaft flats and one on propeller bolt.
9. Install easy-clean screen.
10. Attach the cable support grip (#7) to s-hook on the power unit (#6) to keep the strain off the cable and disconnect assembly (#10).
11. Tip unit so that the float edge is touching the ground and attach AquaLock (ALC) connector (#9).

CAUTION; HAND TIGHTEN ONLY! DO NOT use tools such as pipe wrench or pliers as this may over tighten and damage the connectors.

Note: Test unit on shore for proper rotation. When looking down the float discharge tube, proper rotation is counter clockwise. If rotation needs to be reversed, see electrical instructions in manual. After reversing direction, retighten propeller bolt.

Note: When the fountain and/or lighting system requires removal, protective caps have been provided to maintain a clean cable environment. Simply hand tighten one half to the power unit and the other half to the cable end. When the protective caps are not in use, keep them in a safe place, such as the control panel.

ASSEMBLY INSTRUCTIONS (CONT.)



VOLCANO III NIGHT GLOW LIGHTING SYSTEMS
ASSEMBLY INSTRUCTIONS

1. Unpack the lights and inspect for damage. If damage has been sustained in shipping, a claim must be made with the shipper.

2. Mount light brackets to fountain using existing (#4) hardware.

3. Remove cotter pin and open the clamp.

4. Place (#1) lamp housing into (#2) mounting bracket.

5. Hook the clamp into the slot in the strap and latch the clamp.

   Note: Clamp tension is intended to securely mount a clean lamp housing. Any scale on the lamp housing must be cleaned off before attempting to latch the clamp. Failure to do so will cause damage to the clamp and strap and the lamp housing to come loose.

6. Replace the cotter pin.

7. Adjust the elevation to the desired level by loosening the (#3) height adjustment bolt.

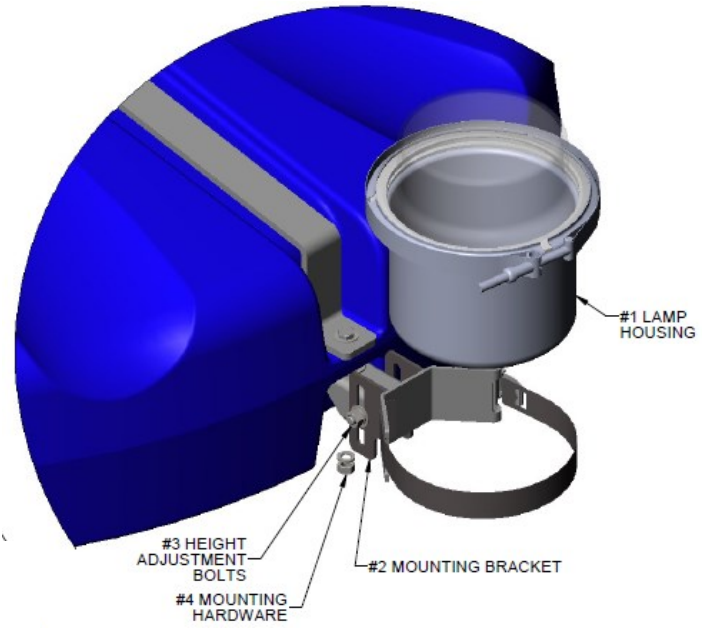
8. Tighten all hardware before placing in the pond.

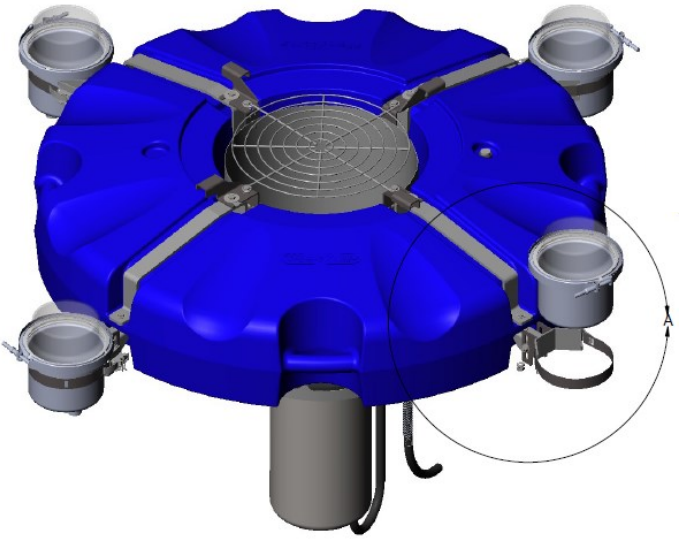
9. After the fixtures are installed on the float, connect the AquaLock (ALC) together. **HAND TIGHTEN ONLY!**

CAUTION; HAND TIGHTEN ONLY! DO NOT use tools such as pipe wrench or pliers as this may over tighten and damage the connectors.

Note: When the fountain and/or lighting system requires removal, protective caps have been provided to maintain a clean cable environment. Simply hand tighten one half to the power unit and the other half to the cable end. When the protective caps are not in use, keep them in a safe place, such as the control panel.

ASSEMBLY INSTRUCTIONS (CONT.)





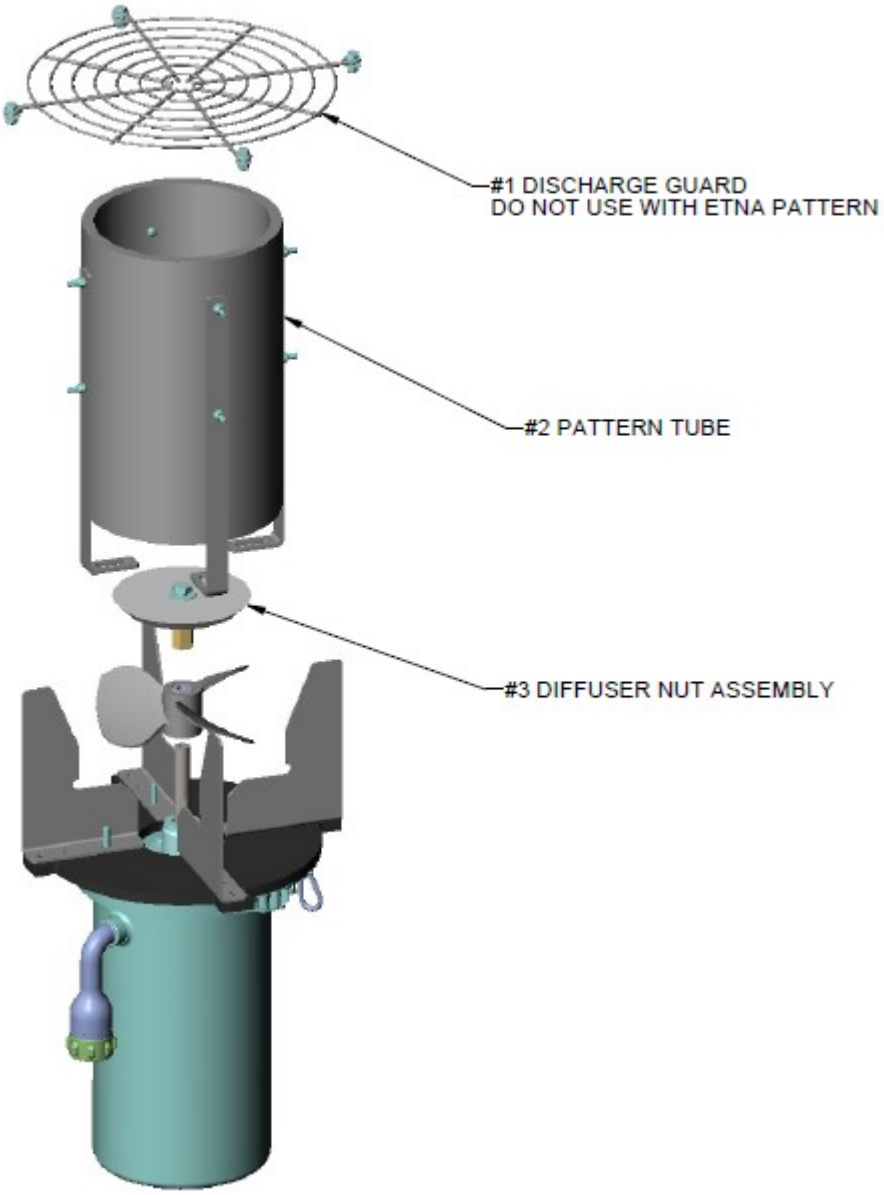
OPTIONAL ETNA PATTERN ASSEMBLY INSTRUCTIONS

1. Remove the fountain from the pond and place on a level and flat surface.
2. Disconnect the AquaLock (ALC) from the power unit.
3. Remove the intake screen from the fountain.
4. Remove the discharge guard from the intake screen.
5. Remove the propeller bolt and washers.
6. Remove the propeller.
   Note: 1.5hp, 60Hz models do not require the removal of the propeller.
7. Place new propeller on motor shaft.
8. Thread the diffuser nut assembly (#3) through the propeller into the shaft.
9. Use a 9/16” wrench on the shaft and a 3/4” wrench on the diffuser bolt to tighten the diffuser and propeller to the shaft.
10. Remove the nuts and washers securing the power unit to the fountain.
11. Place the Etna (#2) tube over the propeller and onto the motor studs.
    Note: Ensure the Etna tube is centered and does not come in contact with the propeller.
12. Replace the washers and nuts securing the power unit to the fountain.
13. Replace the intake screen. (without discharge guard)
14. Tighten all hardware before placing in the pond.
15. Connect the AquaLock (ALC) to the power unit.
    HAND TIGHTEN ONLY!

CAUTION; HAND TIGHTEN ONLY! DO NOT use tools such as pipe wrench or pliers as this may over tighten and damage the connectors.

Note: When the fountain and/or lighting system requires removal, protective caps have been provided to maintain a clean cable environment. Simply hand tighten one half to the power unit and the other half to the cable end. When the protective caps are not in use, keep them in a safe place, such as the control panel.

OPTIONAL ETNA PATTERN ASSEMBLY INSTRUCTIONS (CONT.)



ELECTRICAL CONNECTION – 50Hz
(Electrical Control Panel NOT supplied by AquaMaster®)

Electrical connections must be completed by a licensed electrician or installer in accordance with European community, national, local codes or ordinances.

CAUTION: Aeration systems require the use of a residual current device (RCD) with a rated residual operating current not exceeding 30 mA for safe operation. If the proper grounding and RCD are not used, serious FATAL electrical shock may occur.

ELECTRICAL NOTICE

Supply conductors must be of sufficient cross sectional area to operate the equipment in regard to cable length, motor nameplate current and voltage ratings. All cables, conduits and external ducts must enter the enclosure from the bottom only. Install cables, conduits and external wiring ducts by qualified installer and per local codes utilizing appropriate bushings and glands. Care must be used to protect cables when entering and leaving the pond area by the use of protective duct, conduits or like protection devices. Electrical cable must extend completely onto shore to power source without breaks or splices. Underwater splices are dangerous and will void the warranty.

WARNING

BEFORE INSTALLING INTO THE WATER, test the unit briefly (30 seconds or less) to make sure it runs and check for proper rotation (counter clockwise looking down from top of power unit). Listen for any unusual noises. Unit should run smoothly and quietly. If single phase rotation is backwards, **PLEASE CONTACT THE FACTORY IMMEDIATELY**. If three phase rotation is backwards, change any two motor load leads. If rotation is still backwards check all connections or contact the factory for assistance.

DO NOT operate the unit out of the water except for testing and checking rotation (30 seconds or less). **DO NOT** attempt maintenance procedures or adjustments with unit in operation.

DO NOT burn the lighting fixtures out of the water except to test the lamps (60 seconds or less).

NOTE: Excessive buildup on the lenses may cause the lenses to crack, lamps to burn out and gaskets to fail. To maintain maximum light output and long lamp life, cleaning of the lenses may become necessary.

GROUNDING

Permanently ground this unit in accordance with European community, national, local codes or ordinances. Use a copper conductor of the correct size from the grounding terminal in the control box to a grounded connection in the service panel or a properly driven and electrically grounded ground rod.

OPERATING CONDITIONS

OPERATE UNIT ONLY IN FRESH WATER WITH WATER TEMPERATURE NOT EXCEEDING 40 degree C. DO NOT OPERATE IN SWIMMING AREAS.

ELECTRICAL CONNECTION – 50Hz
(Supplied with AquaMaster® control panel)

Electrical connections must be completed by a licensed electrician or installer in accordance with European community, national, local codes or ordinances.

CAUTION: Aeration systems require the use of a residual current device (RCD) with a rated residual operating current not exceeding 30 mA for safe operation. If the proper grounding and RCD are not used, serial FATAL electrical shock may occur.

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Supply conductors must be of sufficient cross sectional area to operate the equipment in regard to cable length, motor nameplate current and voltage ratings. All cables, conduits and external ducts must enter the enclosure from the bottom only. Install cables, conduits and external wiring ducts by qualified installer and per local codes utilizing appropriate bushings and glands. Care must be used to protect cables when entering and leaving the pond area by the use of protective duct, conduits or like protection devices. Electrical cable must extend completely onto shore to power source without breaks or splices. Underwater splices are dangerous and will void the warranty.

WARNING

DO NOT burn the lighting fixtures out of the water except to test the lamps (60 seconds or less).

NOTE: Excessive buildup on the lenses may cause the lenses to crack, lamps to burn out and gaskets to fail. To maintain maximum light output and long lamp life, cleaning of the lenses may become necessary.

DO NOT BYPASS YOUR CONTROL PANEL. (TO DO SO COULD RESULT IN THE DANGER OF ELECTROCUTION TO ANYONE, HUMAN OR ANIMAL, IN CONTACT WITH THE WATER IF AN ELECTRICAL SHORT SHOULD OCCUR.)

1. To wire your unit and main power to your control panel proceed as follows:
   a. Electrical cable must extend completely onto shore to power source without breaks or splices. Underwater splices are dangerous and will void the warranty. Securely fasten electrical cables with appropriate devices.
   b. Connect black lead from cable to terminal marked 1T1 on terminal strip.
   c. Connect white lead from cable to terminal marked 1T2 on terminal strip.
   d. Connect red lead from cable to terminal marked 1T3 on terminal strip.
   e. Connect the green lead to the earthing system terminal.

ELECTRICAL CONNECTION – 50Hz (CONT.)
(Supplied with AquaMaster® control panel)

2. To connect power to control panel:
   a. Connect Line 1 to L1 on the terminal strip.
   b. Connect Line 2 to L2 on the terminal strip.
   c. Connect Line 3 to L3 on the terminal strip (3 Phase Only).
   d. Connect the neutral to N on the terminal strip (3 Phase Only).
   e. Connect the ground to the earthing system terminal.

WARNING: Always make sure power is off when changing motor direction!

3. Set or verify the overload device in the panel is set to the motor nameplate value plus two amperes.

4. **BEFORE INSTALLING INTO THE WATER**, test the unit briefly (30 seconds or less) to make sure it runs and check for proper rotation (counter clockwise looking down from top of power unit). Listen for any unusual noises. Unit should run smoothly and quietly. If single phase rotation is backwards, **PLEASE CONTACT THE FACTORY IMMEDIATELY**. If three phase rotation is backwards, change any two motor load leads. If rotation is still backwards check all connections or contact the factory for assistance.

DO NOT operate the unit out of the water except for testing and checking rotation (30 seconds or less). **DO NOT** attempt maintenance procedures or adjustments with unit in operation.

GROUNDING

Permanently ground this unit in accordance with local codes or ordinances. Use a copper conductor of the correct size from the grounding terminal in the control box to a grounded connection in the service panel or a properly driven and electrically grounded ground rod.

TIMER OPERATING INSTRUCTIONS

1. To set the time, hold down the CLOCK Key while pressing either the HOUR or MINUTE keys. Continue pressing until the desired number is shown. Then simply lift finger off the CLOCK Key to set.

2. To Set Program (ON/OFF) times: Press the TIMER Key once to enter into program mode. Display will show “1 ON-- --“.

3. Press the HOUR Key and then the MINUTE Key to select the desired first OFF time. Repeat the entire sequence to complete up to eight ON/OFF times as desired.

4. When programming is done, press the CLOCK Key then the SELECT Key repeatedly until the indicator bar is above the word “AUTO”.

CAUTION: Disconnect all power before servicing. **DO NOT** install or operate in swimming areas.

OPERATING CONDITIONS

OPERATE UNIT ONLY IN FRESH WATER WITH WATER TEMPERATURE NOT EXCEEDING 40^0 C. DO NOT OPERATE IN SWIMMING AREAS.

1. Make sure the timer is set to the proper time on the front dial of the timer. Set the on-off sequence to turn the fountains on and off at the desired time.

2. Turn on supply disconnect which is located on the right side of the panel.

3. Turn on the Residual Current Operator. Test to make sure that this safety device works properly. Press the test button and the breaker should trip. If it does not trip, check for proper wiring or defective device.

NOTE: DO NOT BYPASS THIS SAFETY DEVICE. THIS DEVICE MUST BE TESTED EVERY MONTH.

4. Reset the breaker.

5. Sit back and enjoy your fountain/aerator.

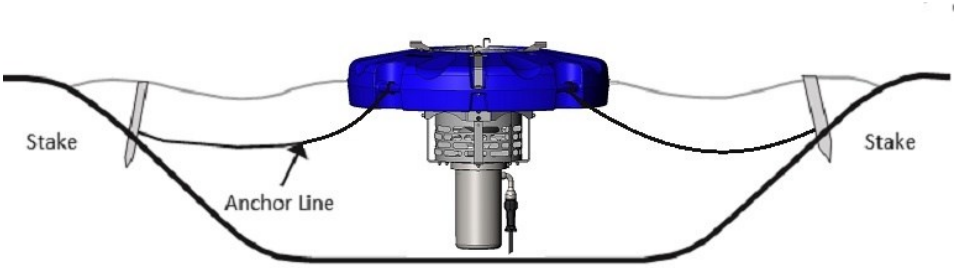
CAUTION: DISCONNECT ALL POWER BEFORE SERVICING

ANCHORING INSTRUCTIONS

CAUTION: If the unit is not properly anchored with adequate tension, the unit will rotate when in operation, resulting in twisted and damaged electrical cable (s).

FIGURE 1 is most applicable for a smaller pond, or one that is easily accessible from two sides.

FIGURE 1



Required Equipment (not provided)

- Two (2) anchor lines (1/4 inch nylon, 1/8" stainless steel cable, or equivalent).
- Two (2) stakes (wood stake or metal rod that can be driven securely into pond's edge).

Anchoring Steps

1. With the unit fully assembled and still on shore, attach anchor lines to the float. Only use the anchor holes which are opposite from one another. Next, carefully lower unit into the pond. **DO NOT** tangle anchor lines and electrical cable(s).

2. Once the unit is floating freely hold or secure one anchor line. With second line, walk slowly away from the first stake to opposite side of pond, pulling unit with you. Continue until unit is in desired location.

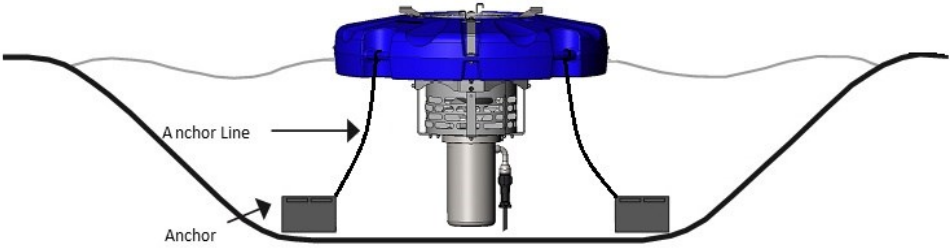
3. Secure all lines, keeping tension on all. Make sure electrical cable(s) is untangled and has some slack from unit to shore.

ANCHORING INSTRUCTIONS (CONT.)

CAUTION: If the unit is not properly anchored with adequate tension, the unit will rotate when in operation, resulting in twisted and damaged electrical cable (s).

In a larger body of water or where vandalism is a concern, FIGURE 2 is the preferred method.

FIGURE 2



Required Equipment (not provided)

- Two (2) anchor lines (1/4 inch nylon, 1/8" stainless steel cable or equivalent). Anchor Line length should equal twice the depth of the pond at point of installation. (Example, if pond depth is eight feet, each anchor line should be at least sixteen feet.) **If the depth of the pond varies more than three feet use FIGURE 1.**

- Two (2) anchors (eight inch concrete blocks, approximate weight of 30 pounds each is sufficient).

Anchoring Steps

1. With unit fully assembled and still on shore, attach anchor lines to the float. Only use the anchor holes which are opposite from one another. Next, carefully lower unit into the pond. **DO NOT** tangle anchor lines and electrical cable(s).

2. Position unit at desired location in pond, playing out electrical cable(s) from shore. Attach anchor lines to anchors and anchor unit making sure you cannot rotate unit more than 45 degrees. Some movement is necessary to allow float to move up and down with changes in water depth. **If you can rotate float more than 45 degrees, adjust anchor lines or relocate anchors.**

FOUR-POINT ANCHORING

At times, because of pond depth, pattern, or pond size, four-point anchoring may become necessary or desirable to prevent your unit from rocking.

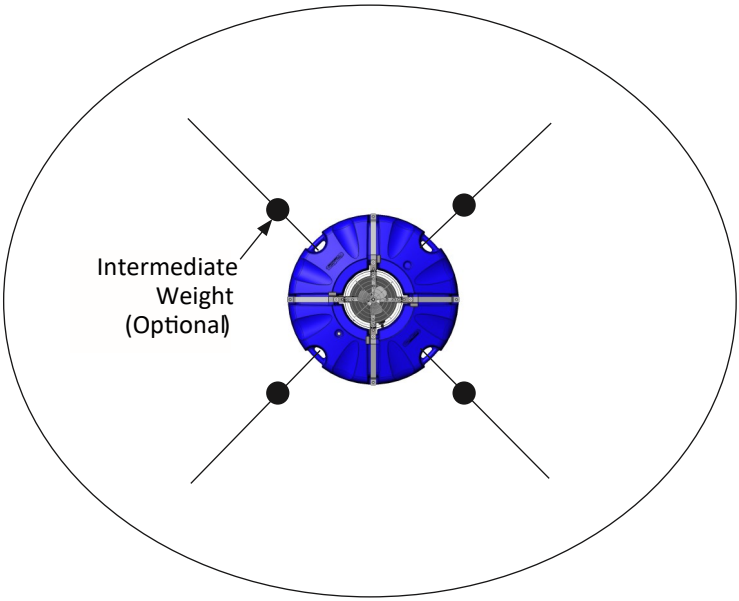
1. Below are two drawings that depict the manner in which the anchors are to be deployed.

2. You will need to pick four anchor points on the float and secure your anchor lines to these points.

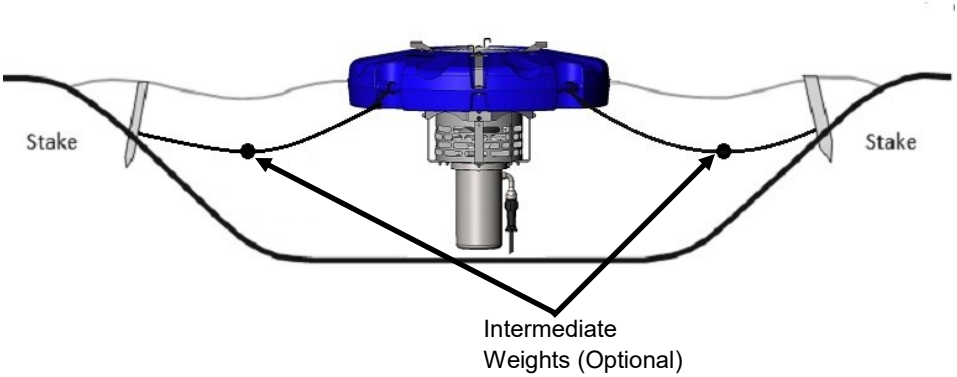
3. About 10 to 15 feet from your anchor points on your float, intermediate weights of approximately 5 lbs. each should be secured to your anchor lines. These weights will keep tension on your anchor lines even though the water depth may vary.

4. Stretch out your anchor lines so your intermediate weights are suspended in the water and not sitting on the bottom. When the anchor lines are properly stretched out, fasten them securely to your anchors on shore or the bottom as required.

CAUTION: If the unit is not properly anchored with adequate attention, the unit will rotate when in operation, resulting in twisted and damaged electrical cable (s).



ANCHORING INSTRUCTIONS (CONT.)



Intermediate weights can also be used with all kind of anchoring to keep constant tension on the anchor lines when the pond depth varies. Follow the installation instructions from the previous page.

WINTERIZATION

AquaMaster® strongly suggests removing the unit for winter if you experience long periods of cold, freezing weather. Damage to the float, lighting, and power unit could result from ice around the unit or lighting system. Also, possible damage to the motor could result if the propeller or impeller is frozen in the ice when the unit tries to start.

There are specific maintenance procedures, as outlined in these assembly instructions, that will keep your unit trouble free for years. These procedures are especially important should you live in a potentially cold climate. The removal of your **AquaMaster®** unit before freezing conditions occur is a perfect opportunity to inspect your unit and keep it running trouble free.

If you have freezing temperatures for short periods of time, you can decrease the chance of freezing by running the unit for 24 hours a day.

NOTICE: Freeze damage to any component of your **AquaMaster®** unit or lighting system will not be covered under warranty.

WARNING: When operating the unit in ice covered bodies of water, the ice around the open water will be dangerously thinner than the rest of the body of water. Signs such as **DANGER THIN ICE** need to be posted. Injury and/or fatality may result if this danger is not posted. **Owner assumes all responsibility.**

MAINTENANCE

WARNING: DISCONNECT ALL POWER BEFORE SERVICING

Like all pieces of precision machinery, certain maintenance procedures must be performed to keep the unit running trouble free for years. The following recommendations should be done annually to prevent a more serious and costly problem from occurring.

Following these recommended procedures will result in years of trouble free operation, as well as keeping the warranty in effect.

- In all cases it is strongly recommended that the unit is removed from the water annually for a good visual inspection.

- Remove the unit from the water and inspect the nuts, bolts, brackets and float. Replace any broken or worn parts. Tighten any nuts and bolts that may have worked loose.

- Make sure the intake screen is in place, intact and free of debris. If debris is floating in the water (plastic bags, fishing line, etc.), performing routine maintenance more frequently on the unit will help assure years of trouble free operation.

- Inspect the motor shaft, propeller and diffuser making sure they are not damaged. If there is damage to any parts, replace them. If debris has wrapped around them, remove it, and inspect the shaft especially around the seal area. Debris wrapped in this area can push the seal faces apart causing water to enter the unit and shorting out the motor. If there is any evidence of this an annual maintenance should be performed (oil and seal change) to keep the unit running properly and warranty in effect.

- Check motor bearings by turning the propeller shaft by hand; it should turn smoothly and quietly.

- Inspect the power cable making sure there are no cuts, worn spots or animal chew marks. If any damage has occurred, replacement of the cable must be done, do not splice your cables. Make sure the cable support grip is not broken and securely fastened to the unit before putting the unit back into the water.

- Under normal conditions, internal maintenance is not required for a specific period of time after the initial installation of the unit. Routine maintenance consisting of power unit oil and seal change, along with inspection of all other in-water and electrical control panel components is recommended annually when installed in saltwater or highly brackish water conditions. Preventative or routine maintenance expenses are the responsibility of the customer. For warranty repair or replacement consideration, equipment must be pre-approved and returned to the **AquaMaster®** factory for inspection, repair or replacement.

- On 1-5HP units it is recommended that maintenance of replacing the seal and oil be performed annually after the initial 5 years of operation and every year thereafter.

For further information, parts ordering assistance and the name of the closest distributor contact the factory at 920.693.3121.

VOLCANO III SERIES 1.5-5.5 HP
IN-WATER COMPONENTS PRODUCT WARRANTY

AQUAMASTER®, hereinafter referred to as The Seller, warrants your Series 304 and/or Series 316 Stainless Steel 1.5-5.5HP motor and seal assembly, float and underwater power cable (referred to as in-water components) for a period of 3 years on parts and 1 year labor, **when used in fresh water only**. This coverage is at 100% replacement costs, should it fail due to defects in materials or workmanship, during the 3 year on parts and 1 year labor warranty period. This is in effect from the date of shipment, when given normal and proper usage as determined by The Seller or its authorized representative upon examination, and when owned by the original user. **Please note that normal and proper usage does not include any salt water or highly brackish water conditions. Series 316 Stainless Steel units must be used for these conditions.**

SERIES 316 STAINLESS STEEL
IN-WATER COMPONENTS PRODUCT WARRANTY

The Seller warrants your Series 316 Stainless Steel 1.5-5.5HP in-water components for a period of 3 years on parts and labor, when operating in any salt water or highly brackish water conditions. This coverage is at 100% replacement costs, should it fail due to defects in materials or workmanship, during the 3 year period. This is in effect from the date of shipment, when given normal and proper usage as determined by The Seller or its authorized representative upon examination, and when owned by the original user.

ELECTRICAL CONTROL PANEL AND
THEIR COMPONENTS PRODUCT WARRANTY

The Seller warrants all parts of its electrical control panel and their components against defects in material or workmanship for a period of 3 years on parts and 1 year on labor from date of shipment when given normal and proper usage as determined by The Seller upon examination, and when owned by the original user. Components purchased by The Seller as complete units and used as an integral part of The Seller's equipment will be covered by the standard warranty of the manufacturer thereof. The Seller will repair or replace F.O.B. original shipping point (but not install) any part or parts of its manufacture which in its judgment shall disclose defects in either material or workmanship. If requested by The Seller, parts for which a warranty claim is made are to be returned transportation prepaid to our Factory. This warranty becomes void if the article claimed to be defective has been repaired or altered in any way, or if the unit has been subject to misuse, negligence or accident, or when instructions for installing or operating have been disregarded.

It is recommended that the enclosed warranty card is returned to The Seller. A return authorization number must be obtained prior to any required return. We make no other warranty, expressed or implied, and make no warranty of merchantability or of fitness for any particular purposes, and there are no warranties which extend beyond the description of the face hereof. No employee or representative is authorized to change this warranty in any way or grant any other warranty. The remedies hereinabove afforded to original user are exclusive of all other remedies provided by law. The Seller shall not be liable for indirect or consequential damages where the loss sustained is of a commercial nature.

UNDERWATER NIGHT GLOW LIGHTING SYSTEM
IN-WATER COMPONENTS PRODUCT WARRANTY

AQUAMASTER®, hereinafter referred to as the seller, warrants all products and parts of its own manufacture against defects in material or workmanship for a period of 3 years on parts and labor, 3 years on LED lamps from date of shipment when given normal and proper usage as determined by seller upon examination, and when owned by the original user, **when used in fresh water only or if purchased Series 316 Stainless Steel to operate in any salt water or highly brackish water conditions**. Components purchased by seller as complete units and used as an integral part of sellers equipment will be covered by the standard warranty of the manufacturer thereof. Seller will repair or replace F.O.B. original shipping point (but not install) any part or parts of its manufacture which in its judgment, shall disclose defects in either material or workmanship. If requested by seller, parts for which a warranty claim is made are to be returned transportation prepaid to our factory. Expressly excluded from this warranty are replacement light bulbs, which are normal wear and replacement items. This warranty becomes void if article claimed to be defective has been repaired or altered in any way or when the article has been subject to misuse, negligence or accident, or when instructions for installing or operation have been disregarded. This coverage is at 100% replacement costs, should it fail due to defects in materials or workmanship, during the 3 year period, halogen lamps have no warranty. This is in effect from the date of shipment, when given normal and proper usage as determined by The Seller or its authorized representative upon examination, and when owned by the original user. **Please note that normal and proper usage does not include any salt water or highly brackish water conditions. Series 316 Stainless Steel units must be used for these conditions.**

GENERAL WARRANTY INFORMATION

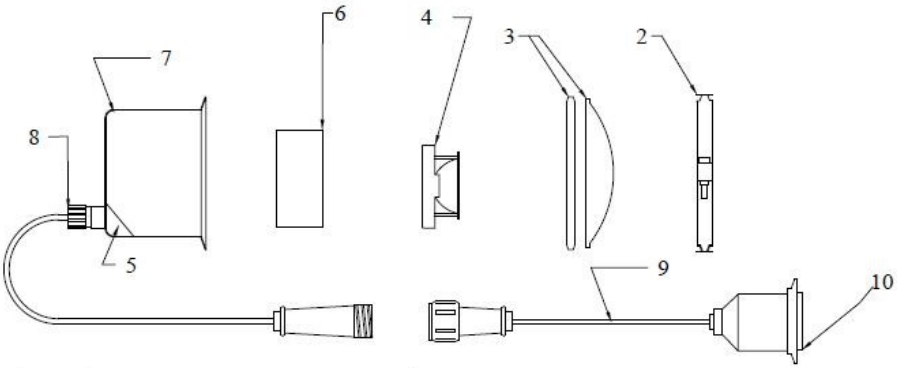
AquaMaster® products and their accessories are warranted against defects in material and workmanship. The warranty period commences on the date the unit is installed as shown on the warranty registration card that must be returned to **AquaMaster®**. If no card has been returned, the warranty commences on the date the unit was shipped from our factory.

During the warranty period, **AquaMaster®** will repair or, at our discretion replace at no charge, all defective components provided the product is returned, shipping prepaid, to the **AquaMaster®** Service Department.

All warranty claims require prior Factory approval and authorization for return or service. Any and all warranty service work must be performed by **Aquamaster®** or approved Factory Trained Authorized Service Centers. Any type of service and repair performed within the warranty period by unauthorized personnel will void the warranty.
Before returning a unit to the factory for repair, a Return Goods Authorization Number must be obtained. You can receive a number by calling the factory during normal business hours of 7:00 a.m. to 4:30 p.m. Central Standard Time at 920-693-3121.

If after inspection of a unit sent in for repair no problem is found, a standard service fee may apply.

120 VOLT NIGHT GLOW LIGHTING



Item	Description		Part Number		
			22 Watt LED	35 Watt LED	40 Watt RGBW LED
1	2 Light Set	Bracket Pivot	910076 (2)	910076 (2)	910076 (2)
		Bracket Light	910075 (2)	910075 (2)	910075 (2)
	4 Light Set	Bracket Pivot	910076 (4)	910076 (4)	910076 (4)
		Bracket Light	910075 (4)	910075 (4)	910075 (4)
2	Clamp		880035	880035	880035
3	Clear Lens and Gasket Assembly		761070	761070	761070
4	Light Plate Assembly		CBA22-*	CBA35-*	760984
5	Potting Resin (1 Per 1 Light Housing)		880128	880128	880128
6	Power Supply Kit		880168	880069	N/A
7a	Housing Single		880012	880012	880012
7b	Housing Double		880013	880013	880013
8	Cord Connector		860016	860016	860015
9	ALC Assembly		760512-SS	760512-SS	760975
10	Kit - O-Ring & Wire Nut		760830	761087	760830

* Select a Board color: Amber, Blue, Green, Red, White.

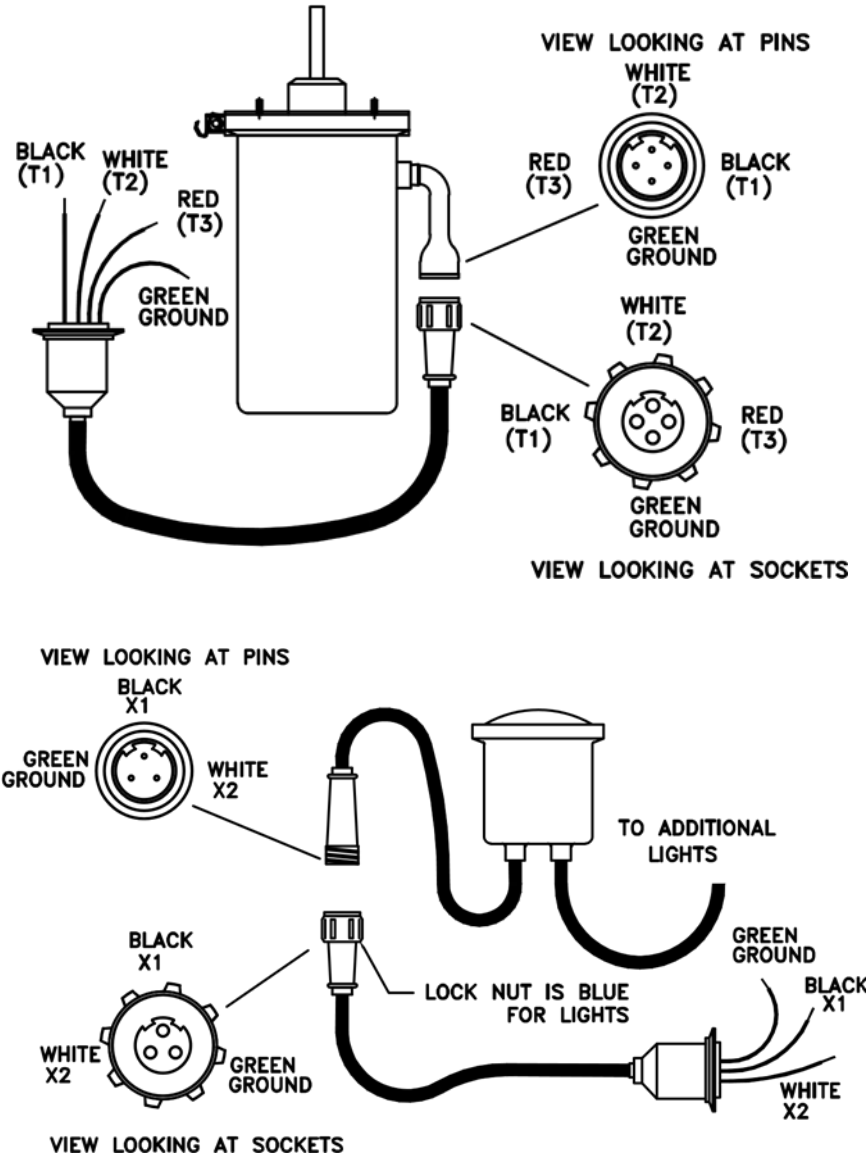
NOTE: Lighting fixtures with LED lamps must be returned to AquaMaster® for service. There are no field serviceable components inside the fixtures.

TROUBLESHOOTING GUIDE

WARNING: Turn off all electrical power before servicing the unit. To prevent accidental startup of the unit while repairs are in process or while servicing the unit, the main electrical equipment disconnect should be turned off and the panel should be locked out.

Sympton	Possible Cause	Solution
The unit will not operate.	There is no electrical power.	Check the breakers or fuses at the power source. Check the breakers and fuses in the control panel. Check the connections in the cord/motor disconnect. Check for the proper voltage.
	The motor hums but will not run.	Check the capacitors.
	GFCI tripped.	Reset the GFCI. If the GFCI continues to trip, have a qualified electrician check to determine the cause. Check the power cable for bite or chew marks (animal damage). Check the power cable cuts. If cut or damaged, replace the cable.
	The timer is not correct.	Reset the timer. This should be done after any power interruption. Check the voltage to the timer.
The motor runs but there is no spray pattern or the pattern is erratic.	The propeller is loose or missing. The propeller is bent.	Tighten or replace the propeller assembly. Replace the propeller diffuser assembly.
	Debris in the propeller diffuser assembly	Clean the debris out. **NOTE:** Plastic bags, plastic wrap on the propeller or shaft. This must be cleaned out for proper performance.
	The nozzle is clogged. The propeller is bent.	Remove the nozzle and clean out the debris. **NOTE:** If the water is very dirty, put on an oversized intake screen.
	The unit is touching the bottom of the water.	Reposition the unit to a deeper point in the water.
	High Winds.	No corrective action to be taken. The pattern will return to normal as the winds subside.
	Sinking float.	Replace the float.
The timer will not run.	Blown fuse.	Replace the control fuse.
	Bad timer.	Replace the timer.
The timer runs and the power are okay but the unit will not run.	Bad timer contacts.	Replace the timer.
The contactor is not good.	Overload tripped.	Reset the overload.
	Contacter is defective.	Replace the motor contactor.
The unit runs but stops and starts by itself.	Low oil in the unit.	Consult a dealer or authorized repair center.
	Leaky seal or damaged cable connector.	Consult a dealer or authorized repair center.

MATCHING WIRE COLOR TO PIN LOCATION
FOR AQUALOCK (ALC)
USE FOR DIAGNOSTIC PURPOSES ONLY



MD001-608

Notes:

ITEM	QUAN.	DESCRIPTION	PART #	
1.	4	SOCKET HEAD SCREW, SS	790116	
2.	4	LOCK WASHER	790084	
3.	1	OIL PIPE PLUG	790013	
4.	1	SEAL CARTRIDGE	810022	
5.	1	O-RING, SEAL CARTRIDGE	800051	
6.	1	SEAL ASSEMBLY	800063	
7.	4	HEX HEAD BOLT	790134	
8.	4	LOCK WASHER	790122	
9.	4	FLAT WASHER	790121	
10.	4	MOTOR O-RING SEAL	800019	
11.	4	STUD, STAINLESS	790224	
12.	4	NUTS, STAINLESS	790140	
13.	4	LOCK WASHER	790141	
14.	4	FLAT WASHER	790142	
15.	2	OIL FILL PLUG	790005	
16.	1	TOP PLATE STAINLESS	810023	
17.	1	TOP PLATE QUAD RING	810027	
18.	1	HOUSING CLAMP	810013	
19.	1	S-HOOK	790001	50 HZ #
20.	1	MOTOR (1.5HP-S/P)	910007	NA
	1	MOTOR (1.5HP-3/P)	910008	910008
	1	MOTOR (3.5HP-S/P)	910009	NA
	1	MOTOR (3.5HP-3/P)	910010	910010
	1	MOTOR (5.5HP-S/P)	910050	NA
	1	MOTOR (5.5HP-3/P)	910051	910051
21.	1	MOTOR HOUSING ASSEMBLY	760461	
22.	8 QT.	OIL, FOOD GRADE	870001	
23.	CHOOSE ONE	10 GA AQUA LOCK ASSEM.	760494	
		12 GA AQUA LOCK ASSEM.	760496	
24.	1	SEALING CAP, POWER UNIT	810083	
25.	1	SEALING CAP, CABLE	810082	

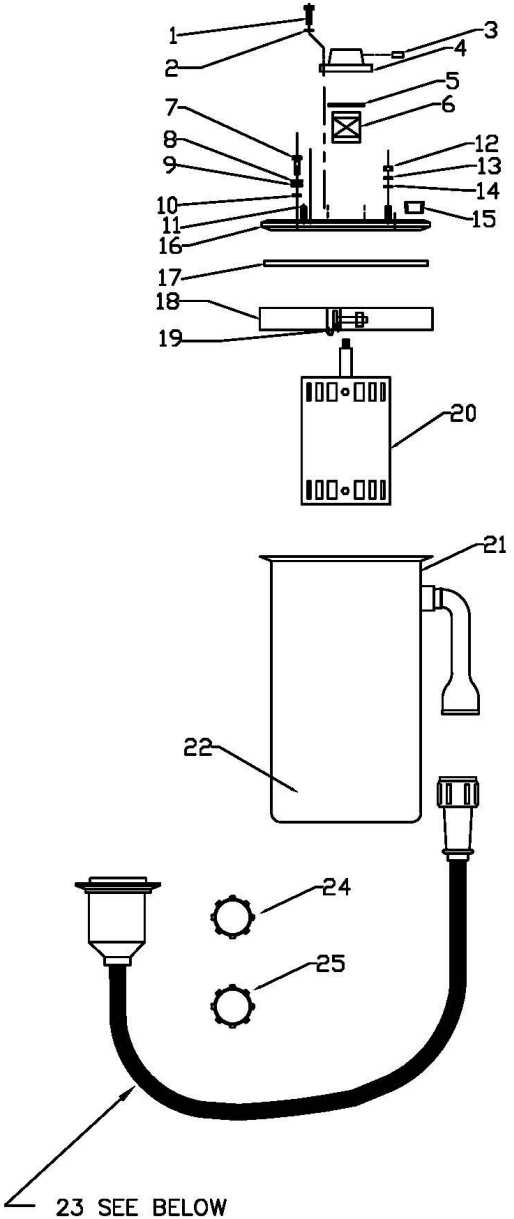
NOTE:
WHEN ORDERING STAINLESS PARTS FOR SALTWATER OR FOR CORROSIVE ENVIRONMENTS, PLEASE FOLLOW THE PART NUMBER WITH -316. EXAMPLE: ITEM 18 WOULD BE 810013-316.

SINGLE PHASE ONLY
ALL CAPACITORS ARE LOCATED IN THE ELECTRICAL CONTROL PANEL OR REMOTELY MOUNTED

HP	QTY	MICROFARADS
1.5	1	30 MFD
3.5	1	45 MFD
5.5	2	45 MFD

MAINTENANCE KIT #870126

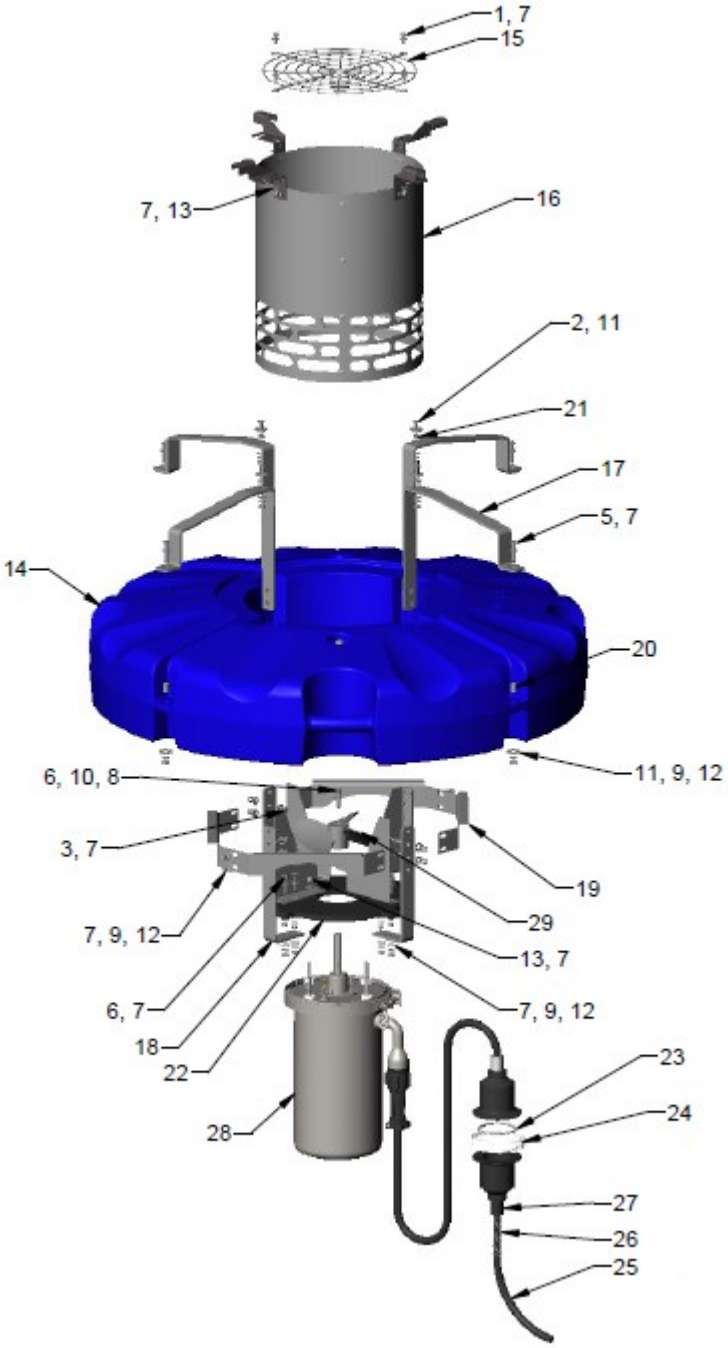
SEAL INSTALLATION TOOL #870012



760494 – 10 GA AQUA LOCK FOR:
1 HP 120V
3 AND 3.5 HP
5 AND 5.5 HP
760496 – 12 GA AQUA LOCK FOR:
1 HP 240V
2 HP

MD002-256

ITEM	PART NUMBER	QUANTITY	DESCRIPTION
1	790211	4	BOLT, 5/16-18 X 3/4
2	790145	4	BOLT, 5/16-18 X 1
3	790685	8	BOLT, 5/16-18 X 1-1/4
4	790686	8	BOLT, 5/16-18 X 1-1/2
5	790208	4	BOLT, 5/16-18 X 1-3/4
6	790134	1	BOLT, 3/8-16 X 1-1/2
7	790142	52	WASHER, FLAT, 5/16
8	790124	1	WASHER, FLAT, 3/8
9	790141	24	WASHER, LOCK, 5/16
10	790123	1	WASHER, LOCK, 3/8
11	790409	8	WASHER, FENDER, 5/16-1-1/4 OD
12	790140	24	NUT, 5/16
13	790139	8	NUT, LOCK, 5/16
14	3000117	1	FLOAT
15	910011	1	DISCHARGE GUARD
16	910167	1	INTAKE SCREEN
17	3000107	4	UPPER BRACKET
18	3000110	4	LOWER BRACKET
19	3000114	2	SUPPORT RING
20	3000115	4	SPACER
21	3000027	4	SPACER
22	3000116	1	MOTOR PLATE
23	810032	1	DISCONNECT O-RING
24	810033	1	DISCONNECT CLAMP
25	VARIES	X	CABLE
26	860003	1	CABLE, SUPPORT GRIP
27	860018	1	CORD CONNECTOR
28	760384	1	POWER UNIT, 1.5HP, 3PH, 240V 50/60HZ, VOLCANO
	760382	1	POWER UNIT, 1.5HP, 1PH, 240V 50/60HZ, VOLCANO
	760048	1	POWER UNIT, 1.5HP, 3PH, 440-480V 50/60HZ, VOLCANO
	760851	1	POWER UNIT, 1.5HP, 3PH, 575V 60HZ, VOLCANO
	760385	1	POWER UNIT, 3.5HP, 3PH, 240V 50/60HZ, VOLCANO
	760383	1	POWER UNIT, 3.5HP, 1PH, 240V 50/60HZ, VOLCANO
	760100	1	POWER UNIT, 3.5HP, 3PH, 440-480V 50/60HZ, VOLCANO
	760397	1	POWER UNIT, 3.5HP, 3PH, 575V 60HZ, VOLCANO
	760471	1	POWER UNIT, 5.5HP, 3PH, 240V 50/60HZ, VOLCANO
	760470	1	POWER UNIT, 5.5HP, 1PH, 240V 50/60HZ, VOLCANO
	760122	1	POWER UNIT, 5.5HP, 3PH, 440-480V 50/60HZ, VOLCANO
	760811	1	POWER UNIT, 5.5HP, 3PH, 575V 60HZ, VOLCANO
29	910005	1	PROPELLER, 1.5HP, 60HZ
	910006	1	PROPELLER, 3.5HP, 60HZ
	3000650	1	PROPELLER, 5.5HP, 60HZ
	3000664	1	PROPELLER, 1.5HP, 50HZ
	910036	1	PROPELLER, 3.5HP, 50HZ
	910077	1	PROPELLER, 5.5HP, 50HZ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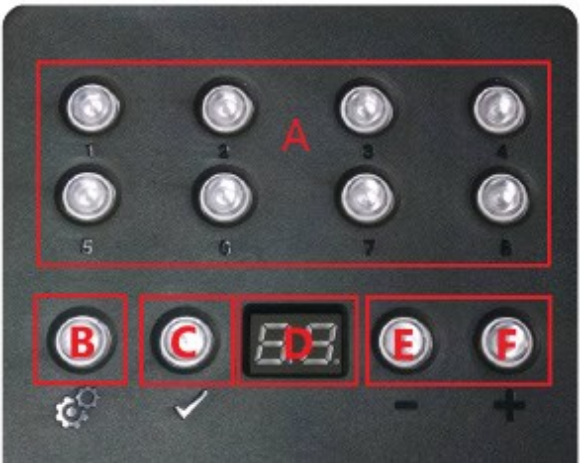
Notes:

Notes:

Notes:

Pushbutton RGBW Quick Start Program Guide

3000989



To Change Programs:

1. If not in scene mode, press the select button (B) until 'SA' appears in the LED display, and press the check button (C) to confirm.

2. Select programs 1-8 directly using the numbered push buttons (A).

3. Use the plus (F) and minus (E) buttons to select a program number, and press the check button to confirm.

To Change Program Speed:

1. If not in speed mode, press the select button (B) until 'SP' appears in the display (D), and press the check button (C) to confirm.

2. Use the '+' and '-' buttons to increase or decrease speed, and press the check button (C) to confirm.

To Change Program Brightness:
1. If not in dimming mode, press the select button (B) until 'dI' appears in the display (D), and press the check button (C) to confirm.

2. Use the plus (F) and minus (E) buttons to increase or decrease speed, and press the check button (C) to confirm.

NOTE: Decreasing brightness dims all lights, and increasing brightness turns up the white component of the RGBW light.

3000989

RGBW Controller Quick Start Guide - Old Controller

To Change Programs:

1. Select programs 1-10 directly by pressing any of the numbered buttons (A).

2. Use the plus (E) and minus (C) buttons to cycle through the programs. Upon reaching the desired program, hold down the plus (E) or minus (C) button. The program number will flash in the LED display (D) when it is selected.

To Change Program Speed:

1. Press the mode button (B) until the speed indicator lights up (F).

2. Use the plus (E) and minus (C) buttons to increase or decrease speed.

To Change Brightness:

1. Press the mode button (B) until the brightness indicator lights up (G).

2. Use the plus (E) and minus (C) buttons to increase or decrease brightness.

NOTE: Decreasing brightness dims all lights, and increasing brightness turns up the white component of the RGBW light.

3000989

RGBW Program List and Custom Programs

Program List:

1. White
2. New Year's Day
3. Valentine's Day
4. Mardi Gras
5. St Patrick's Day
6. 4th of July
7. Breast Cancer Awareness
8. Thanksgiving
9. Hanukkah
10. Christmas
11. 12 Color Fade
12. Rainbow
13. Pastel Rainbow
14. Warm Colors
15. Cool Colors
16. RGBW
17. CMYW
18. Red
19. Orange
20. Yellow
21. Lime
22. Green
23. Teal
24. Cyan
25. Indigo
26. Blue
27. Violet
28. Magenta
29. Pink
30. Black (Off)

Custom Programs:

1. White
2. New Year's Day
3. Valentine's Day
4. Mardi Gras
5. St Patrick's Day
6. 4th of July
7. Breast Cancer Awareness
8. Thanksgiving
9. Hanukkah
10. Christmas
11. 12 Color Fade
12. Rainbow
13. Pastel Rainbow
14. Warm Colors
15. Cool Colors
16. RGBW
17. CMYW
18. Red
19. Orange
20. Yellow
21. Lime
22. Green
23. Teal
24. Cyan
25. Indigo
26. Blue
27. Violet
28. Magenta
29. Pink
30. Black (Off)

3000989

RGBW Program Guide

New Years: Different intensities of white blinking and flashing.

Valentine's Day: Reds, pinks and whites chasing around.

Mardi Gras: Yellow, teal and magenta fading together.

St Patrick's Day: Light and dark shades of green chasing around.

4th of July: Red, white and blue fading together.

Breast Cancer Awareness: Pink.

Thanksgiving: Autumn colors of yellow, red, brown, and orange chasing around.

Hanukkah: Blues and silvers fading together.

Christmas: Red, white and green fading together.

12 Color Fade: 12 colors around the color wheel fading together.

Rainbow: 12 colors around the color wheel chasing.

Pastel Rainbow: 12 colors around the color wheel with a white element chasing.

Warm Colors: Red, orange and yellow fading together.

Cool Colors: Blues and greens fading together.

RGBW: Red, green, blue and white fading together.

CMYW: Cyan, magenta, yellow and white fading together.

Notes:

Notes:

PN: 3005582
REVISION: C
DATE: 02 JUL 2024

AquaMaster®
FOUNTAINS AND AERATORS
A DIVISION OF NIGRELLI INC.

BRINGING WATER TO LIFE

Floating Fountains
Masters Series®
Masters Decorative Series
Masters Grand® Series
Galaxy Select® Series

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Night Glow Lighting and Control Panels
LED or RGBW Lighting System

High Performance Aeration Systems
Volcano II Surface Spray Systems
Volcano III Surface Spray Systems
AquaAir® Ultra Aeration Systems

Fixed Base Water Feature Fountains
Custom Horizontal and Vertical Models

Land Master® Landscape Lighting
LED or RGBW Lighting System