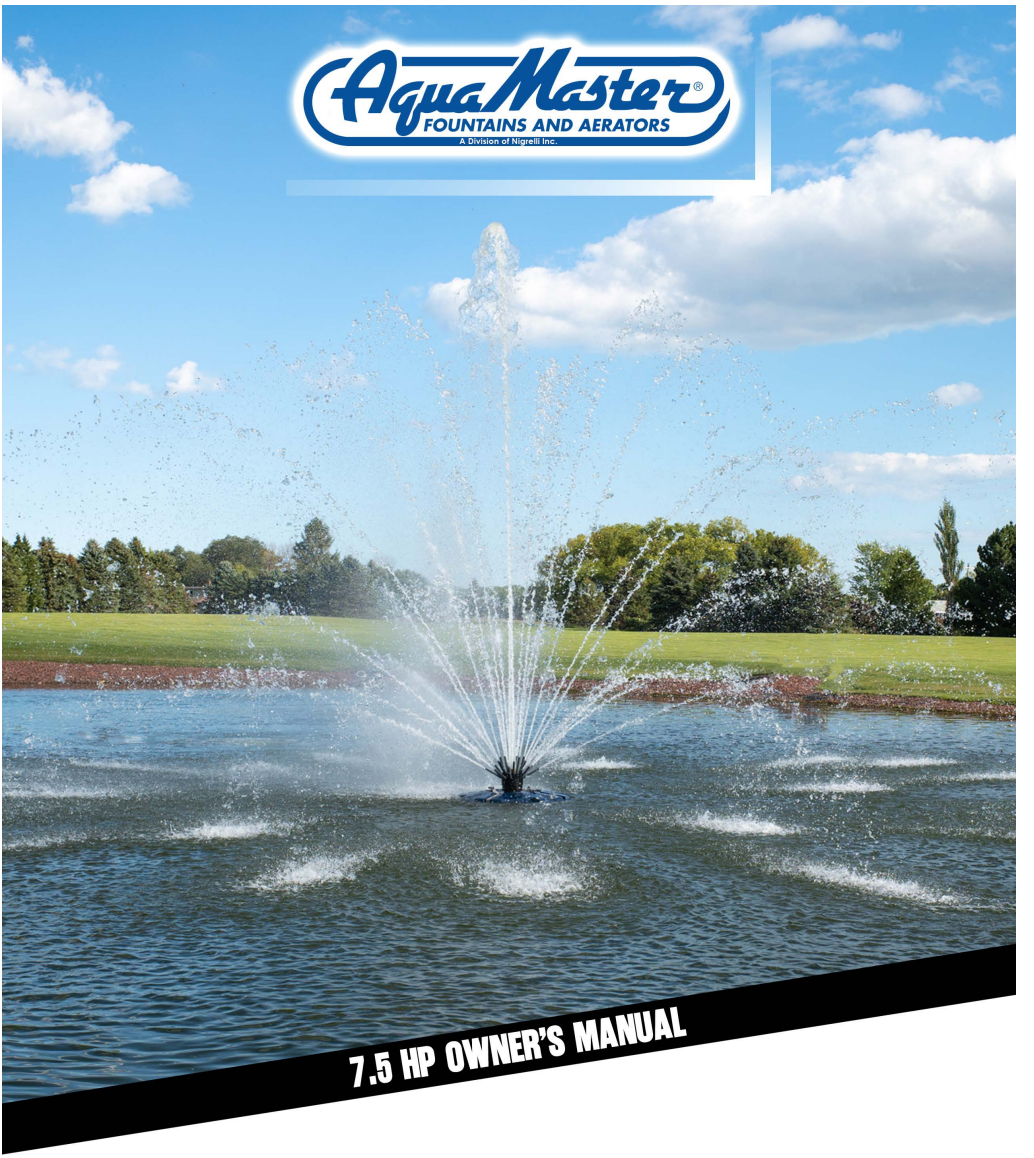


MASTERS® GRAND SERIES

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. **A hazardous installation may be created.** 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.

TABLE OF CONTENTS

SHIPPING CLAIMS

When the **AquaMaster®** unit is received, 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.

Pictures and images used in this manual are for representational purposes only, may not depict the actual product.

ASSEMBLY INSTRUCTIONS

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 is shipped partially assembled to avoid damage during shipment.

1. Carefully unpack the fountain and inspect for damage.
2. Carefully unpack nozzle and install to unit per instructions provided with nozzle.
3. Install nozzle tether to nozzle and unit per instructions provided with tether.

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.

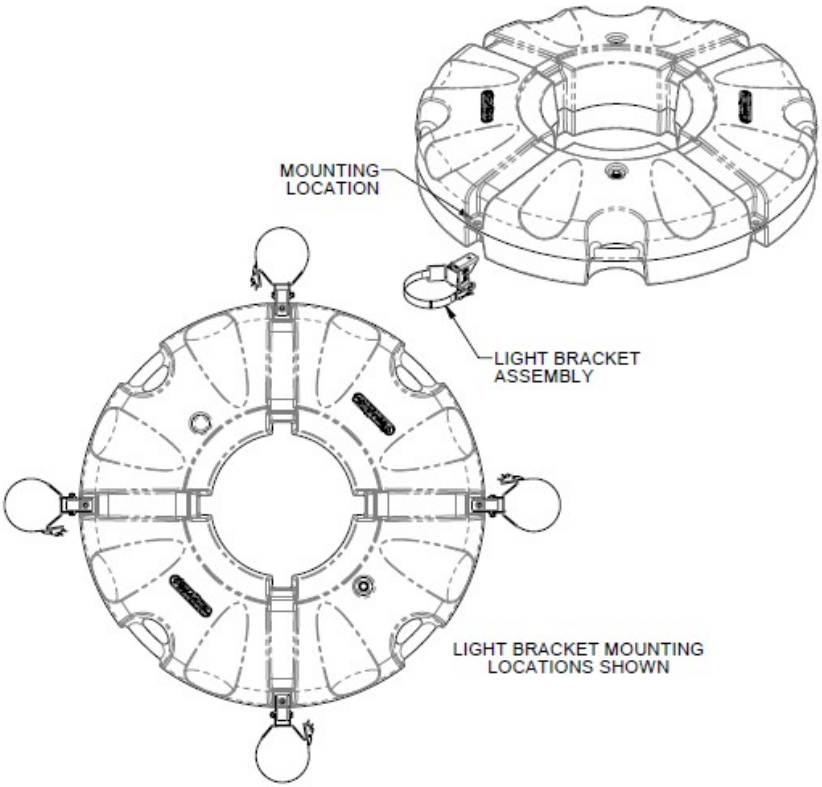
ASSEMBLY INSTRUCTIONS (CONT.)

Light Bracket Installation

4 Light Set

1. Secure each light bracket assembly to the mounting locations on the underside of f float by removing existing hardware and reinstalling while replacing existing bolt with a 2” bolt and replacing the fender washer with a flat washer.

2. **Note:** Light brackets are adjustable to achieve desired height per light in relation to the water line.



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ASSEMBLY INSTRUCTIONS (CONT.)

Light Bracket Installation

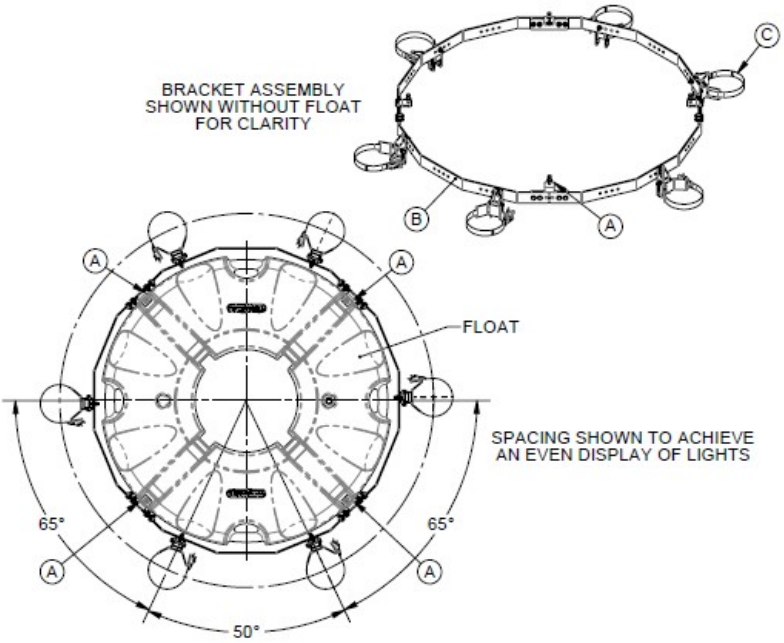
6 Light Set

1. Install four (A) brackets to topside of float by removing existing hardware, and reinstalling while replacing existing bolt with a 2” bolt and replacing the fender washer with a flat washer.

2. Secure four (B) brackets to previously installed (A) brackets with four 1” Hex bolts, eight flat washers, four split lock washers, and four hex nuts per (A) bracket.

3. Install six light brackets evenly spaced as shown below. Use one hex bolt, two flat washers, and one Nylock nut per light bracket.

4. Note: Light brackets are adjustable to achieve desired height per light in relation to the water line.



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ASSEMBLY INSTRUCTIONS (CONT.)

Light Bracket Installation

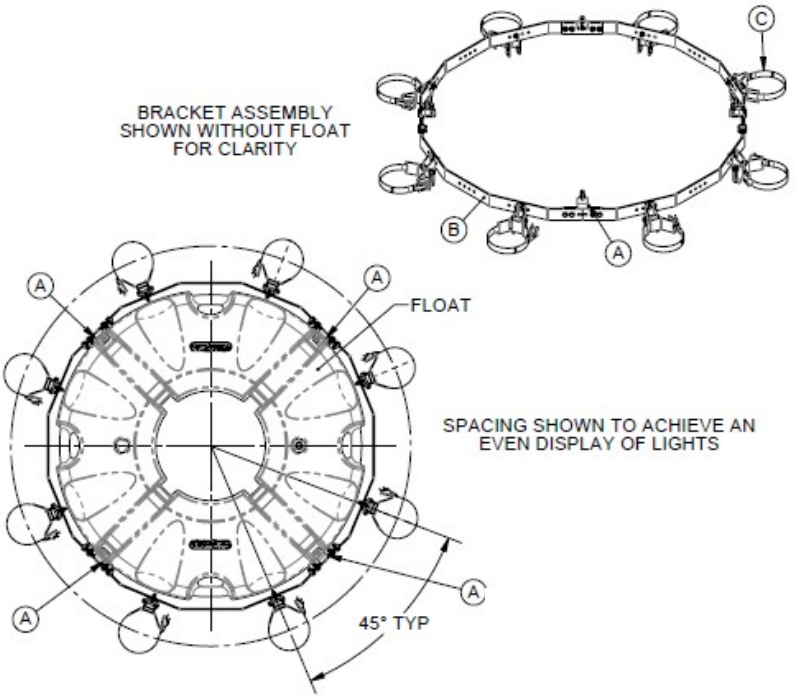
8 Light Set

1. Install four (A) brackets to topside of float by removing existing hardware, and reinstalling while replacing existing bolt with a 2” bolt and replacing the fender washer with a flat washer.

2. Secure four (B) brackets to previously installed (A) brackets with four 1” hex bolts, eight flat washers, four split lock washers, and four hex nuts per (A) bracket.

3. Install eight (C) brackets evenly spaced as shown below. Use one 1” hex bolt, two flat washers, and one Nylock nut per light bracket.

4. Note: Light brackets are adjustable to achieve desired height per light in relation to the water line.



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ELECTRICAL CONNECTION FOR 7.5HP

Electrical connection to be completed by a licensed electrician in accordance with the National Electric Code and local codes or ordinances.

WARNING: This unit and lighting system are pre-wired and is provided with a GFCI for your safety and the safety of your equipment in the event of an electrical short, ground or equipment failure. **DO NOT** remove or modify the GFCI. Removal or modifications could result in electrocution to anyone, human or animal, in contact with the water.

- **TURN OFF** electrical power at fuse box or service panel before making any electrical connections.
- The control panel enclosure is rain-tight and includes a GFCI breaker, timer, contactor and overload assembly. **DO NOT** bypass your control panel. Bypassing the control panel could result in electrocution of anyone, human or animal in contact with the water.
- Underwater splices are dangerous and will void the warranty. Electrical cable(s) must extend completely onto shore to power source without breaks or splices.

Electrical Connection to Control Panel

WARNING: Make sure power is **OFF!**

1. Take the four (4) conductor cable from the unit and securely fasten it to the control panel.
2. Connect **black lead** from cable to terminal marked 1T1 on terminal strip.
3. Connect **white lead** from cable to terminal marked 1T2 on terminal strip.
4. Connect **red lead** from cable to terminal marked 1T3 on terminal strip.
5. Connect **green lead** to the grounding terminal.

Steps A – D are for optional lighting system

a. Take the three (3) conductor cable for the lighting system and securely fasten it to the control panel.
b. Connect **black lead** from cable to terminal marked X1 on terminal strip.
c. Connect **white lead** from cable to terminal marked X2 on terminal strip.
d. Connect **green lead** to the grounding terminal.

ELECTRICAL CONNECTION (CONT.)

Electrical Connection to Customer Supplied Power Source

WARNING: Make sure power is **OFF!**

1. Connect **Line 1 to L1** on the terminal strip.
2. Connect **Line 2 to L2** on the terminal strip.
3. Connect **Line 3 to L3** on the terminal strip (3 phase only).
4. Connect the **neutral to N** on the terminal strip (208-240V only).
5. Connect the **ground to the grounding** terminal.
6. Set or verify that the overload assembly in the panel is set to the motor nameplate value plus two (2) amperes.

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.

WARNING: Always make sure power is **OFF** when changing motor direction.

WARNING: 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.

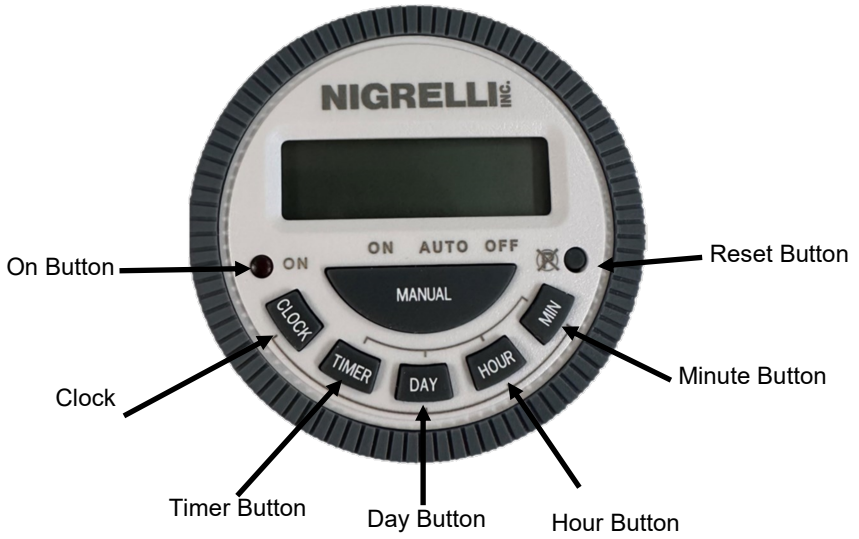
WARNING: DO NOT burn the lighting fixtures out of the water except to test the lamps (60 seconds or less). Light lenses **MUST BE** completely covered with water to prevent lens failure.

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 the National Electric Code and 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.

DIGITAL TIMER OPERATING INSTRUCTIONS



1. Apply power to turn the timer on.

2. Press the RESET button to clear all data from memory. Use a pen point to press.

SETTING THE CLOCK

3. Press and hold the CLOCK button.

4. While holding the CLOCK button, press the DAY, HOUR or MINUTE button to the desired day / time.

Note: Advanced past 12:00 to set PM.

5. Release the CLOCK button.

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DIGITAL TIMER OPERATING INSTRUCTIONS (CONT.)
PROGRAMMING

1. There are 15 daily program settings built into the timer.

    a. MO TU WE TH FR SA SU
    b. MO
    c. TU
    d. WE
    e. TH
    f. FR
    g. SA
    h. SU
    i. MO TU WE TH FR
    j. SA SU
    k. MO TU WE TH FR SA
    l. MO TU WE
    m. TH FR SA
    n. MO WE FR
    o. TU TH SA

2. Press TIMER once. "1^{ON}--:--" appears.

3. Press DAY repeatedly for desired days ON.
   Ex. Mo Tu We Th Fr Sa Su.

4. Press HOUR / MIN repeatedly for desired ON time.
   Note: Advance past 12:00 to set PM.

5. Press TIMER once. "1OFF --:--" appears.

6. Press DAY repeatedly for desired days OFF.
   Note: Must match "1^{ON}" day settings.

7. Press HOUR / MIN repeatedly for desired OFF time.
   Note: You must advance past 12:00 to set PM.

8. Repeat steps 1 through 7 for more events if desired, up to a maximum of 8 ON/OFF events per day.

9. When finished programming, press CLOCK to execute programs.

10. Press MANUAL until the line is above AUTO.

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Program Example 1

Simple 7 Day Week Program - Timer to turn on at 7:00 AM everyday and off at 11:30 PM everyday.

PROGRAM KEY DISPLAY

EVENT 1 - ON

1. Press TIMER. "1ON --:--" appears.
2. Press DAY until Mo through Su is displayed.
3. Press HOUR until 7:00 AM appears.
4. Use MIN until :00 appears.
5. Press TIMER. "1OFF --:--" appears.

EVENT 1 - OFF

1. Press DAY until Mo though Su is displayed.
2. Press HOUR until 11:00 PM appears.
3. Press MIN until :30 PM appears.
4. Press CLOCK to execute the program.
5. Press MANUAL until the line is above AUTO.

Program Example 2

3 Event Program

Event 1:

Turn timer ON at 7:30 AM and OFF at 11:30 PM Monday through Friday.

Event 2:

Turn timer ON at 8:00 AM Saturday and turn timer OFF at 2:00 AM Sunday.

Event 3:

Turn timer ON at 9:00 AM Sunday and turn timer OFF at 10:00 PM Sunday. This is a 3 event program. There will be 5 events left if needed.

EVENT 1 - ON (Timer is ON at 7:30 AM Monday through Friday)

PROGRAM KEY DISPLAY

1. Press TIMER. "1ON --:--" appears.
2. Press DAY until Mo Tu We Th Fr appears.
3. Press HOUR until 7:00 AM appears.
4. Press MIN until :30 AM appears.
5. Press TIMER. "1OFF --:--" appears.

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Program Example 2 (cont.)

EVENT 1 - OFF (Timer is OFF at 11:30 PM Monday through Friday)

1. Press DAY until Mo Tu We Th Fr appears.
2. Press HOUR until 11:00 PM appears.
3. Press MIN until :30 PM appears.
4. Press TIMER until "2ON --:--" appears.

EVENT 2 - ON (Timer is ON at 8:00 AM Saturday)

1. Press DAY until Sa appears.
2. Press HOUR until 8:00 AM appears.
3. Press TIMER until "2OFF --:--" appears.

EVENT 2 - OFF (Timer is OFF at 2:00 AM Sunday)

1. Press DAY until Su appears.
2. Press HOUR until 2:00 AM appears.
3. Press TIMER until "3ON --:--" appears.

EVENT 3 - ON (Timer is ON at 9:00 AM Sunday)

1. Press DAY until Su appears.
2. Press HOUR until 9:00 AM appears.
3. Press TIMER until "3OFF --:--" appears.

EVENT 3 - OFF (Timer is OFF at 10:00 PM Sunday)

1. Press DAY until Su appears.
2. Press HOUR until 10:00 PM appears.
3. Press CLOCK to execute the program.
4. Press MANUAL until the line is above AUTO.

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DIGITAL TIMER OPERATING INSTRUCTIONS (CONT.)
REVIEWING PROGRAMMED EVENTS

To review the events at any time, press the TIMER button, "1ON" will be displayed. Press the TIMER button again to review the "1OFF" setting. Press the TIMER button repeatedly to review events 2 through 8. Press the CLOCK button to return to the time of day.

CHANGING AN EVENT

1. Press TIMER repeatedly until the requested event is displayed.
2. Press DAY, HOUR, or MIN to adjust the event setting.
3. Press CLOCK to return to the time of day.

NOTE: To delete an on / off time, **RESET** the timer.

HOW TO REPLACE THE BATTERIES

1. The timer is equipped with a CR2032 lithium battery which keeps the time on the timer correct if power is removed from the timer.
2. To replace the battery, use a coin to remove the battery cover on back of the timer. Turn the cover one quarter turn clockwise and remove the cover.
3. Using a small screwdriver, pry out the battery. Install the new battery and replace the cover.

Note: The timer settings will be retained for approximately one (1) minute once the battery is removed.

Note: The battery can be purchased in most local drug and big box stores.

TEMPORARY OVERRIDE

1. When the timer's output status is "ON".

   Press the MANUAL key to move the indicator from "AUTO" to "OFF", timer shall turn to "OFF" status, programs overrided. Press the MANUAL again to switch the timer status to "AUTO", timer's output shall continue maintaining "OFF". Timer shall resume its automatic operation when the next program (event) calls for "ON".

2. When the timer's output status is "OFF".

   Press MANUAL, to move the indicator from "AUTO" to "ON", timer shall turn to "ON" status, programs overrided. Press the MANUAL again to switch the timer's status to "AUTO", the timer's output shall continue maintaining "ON". The timer shall resume its automatic operation when the next program (event) calls for "OFF".

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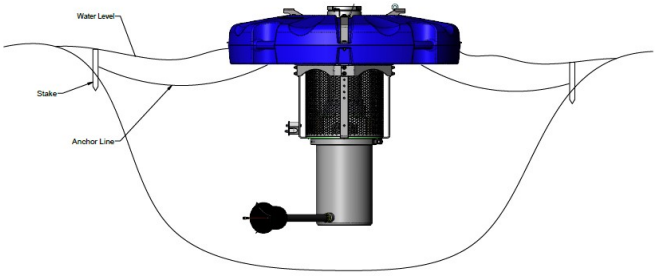
ANCHORING INSTRUCTIONS

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



Not to Scale

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 the opposite side of the pond while pulling the unit.

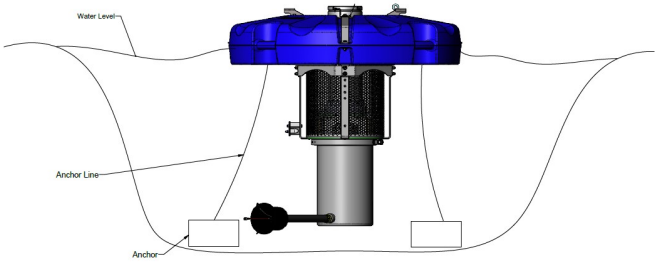
3. Secure all lines, keeping tension on all. Make sure electrical cable(s) is untangled and has some slack from unit to shore.

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 to avoid unwanted tampering with unit.

FIGURE 2



Not to Scale

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 the unit cannot rotate more than 45 degrees. Some movement is necessary to allow float to move up and down with changes in water depth. **If float can be rotated 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 the unit from rocking.

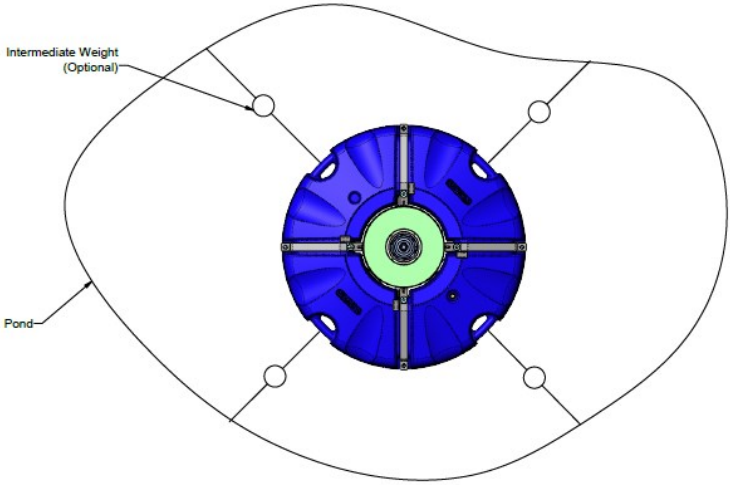
1. Below are two drawings that depict the manner in which the anchors are to be deployed.

2. Pick four anchor points on the float and secure the anchor lines to these points.

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

4. Stretch out the 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 the anchors on shore or the bottom as required.

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).



P/N 3004013

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 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.

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

WINTERIZATION

AquaMaster® strongly suggests removing the unit for winter if 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.

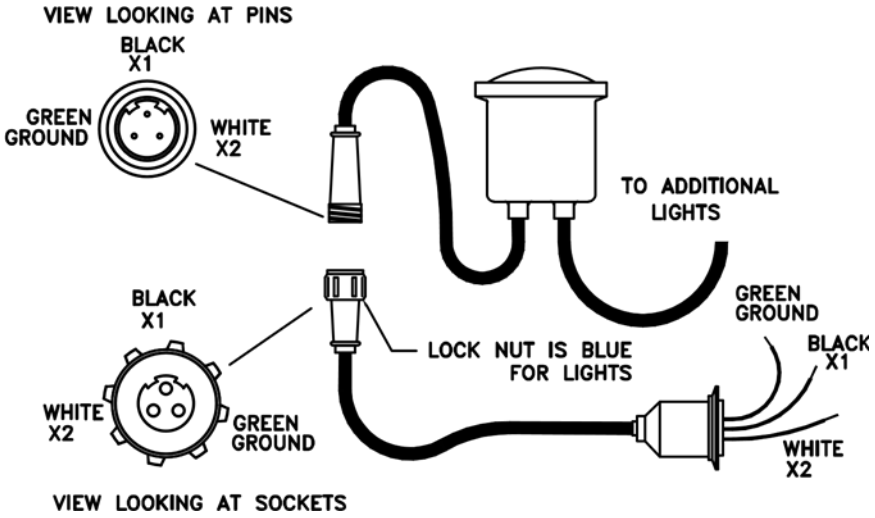
There are specific maintenance procedures, as outlined in these assembly instructions, that will keep the unit trouble free for years. These procedures are especially important when unit is located in cold climates. The removal of the **AquaMaster®** unit before freezing conditions occur is a perfect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

If freezing temperatures are present for short periods of time, running the unit for 24 hours a day can decrease the chance of allowing the unit to freeze.

NOTICE: Freeze damage to any component of the **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.**

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



MD001-577

MASTERS GRAND SERIES 7.5 HP
IN-WATER COMPONENTS PRODUCT WARRANTY

AQUAMASTER®, hereinafter referred to as The Seller, warrants the Series 316 Stainless Steel 7.5HP motor and seal assembly, float and underwater power cable (referred to as in-water components) for a period of 4 years on parts and labor. This coverage is at 100% replacement costs, should it fail due to defects in materials or workmanship, during the 4 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 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 the 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.

A return authorization number must be obtained prior to any required return. The factory makes 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. 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.

GENERAL WARRANTY INFORMATION

AquaMaster® products and accessories are warranted against defects in material and workmanship. The warranty period commences 90 days of shipment of the order. Warranty cards/registration no longer required.

During the warranty period, **AquaMaster®** will repair or, at the 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. Obtain a number by calling the factory during normal business hours of 7:00 a.m. to 4:30 p.m. Central Standard Time at920-693-3121.

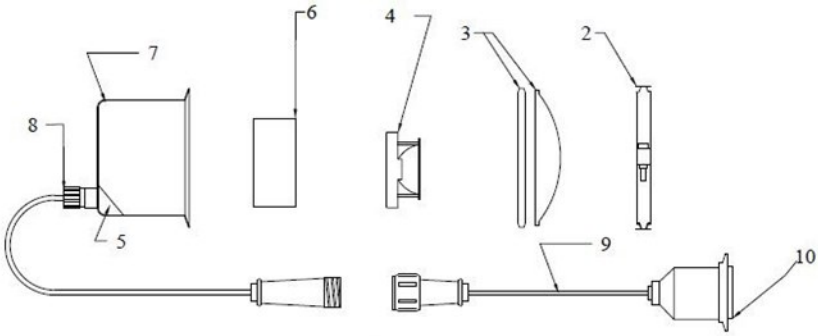
If after inspection of a unit sent in for repair no problem is found, a standard service fee may apply.

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.

120 VOLT NIGHT GLOW LIGHTING



Item	Description		Part Number		
			22 Watt LED	35 Watt LED	40 Watt RGBW LED
1	4 Light Set	Bracket Pivot	890133 (4)	890133 (4)	890133 (4)
		Bracket L	820300 (8)	820300 (8)	820300 (8)
	6 Light Set	Bracket Pivot	890133 (6)	890133 (6)	890133 (6)
		Bracket Light	820300 (12)	820300 (12)	820300 (12)
	8 Light Set	Bracket Pivot	890133 (8)	890133 (8)	890133 (8)
		Bracket Light	820300 (16)	820300 (16)	820300 (16)
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.

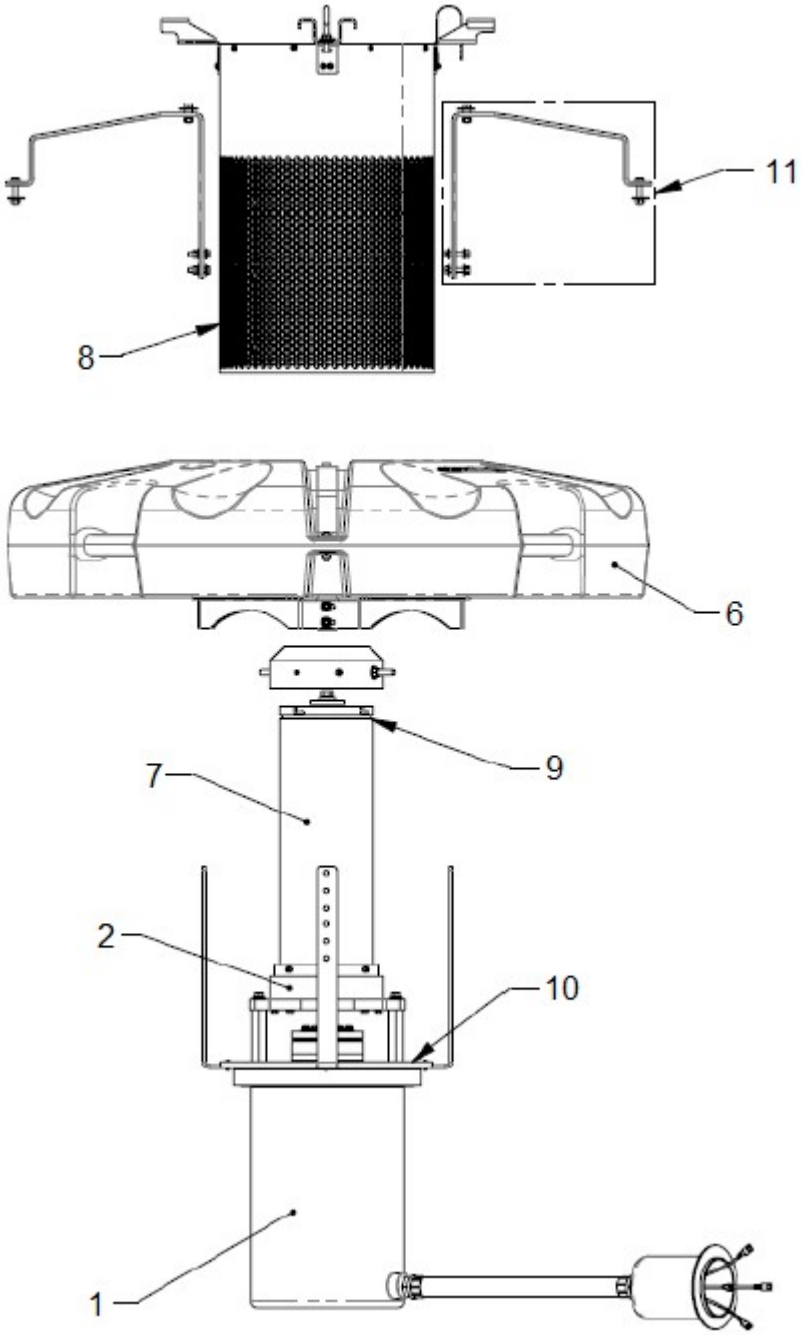
Item	Description			Part Numbers	
				7.5HP	10HP
1	Power Unit - W/O Chime	1PH	240V	MR760079	MR760188
		3PH	240V	MR760080	MR760189
			460V	MR760085	MR760141
2	Tube Support Assembly			3002313-316	3002313-316
3	Impeller Kit*			760754-316	760755-316
4	Lakewood Pattern Kit*			3003388	3003388
5	Flow Straightener Kit*			3003997	3003997
6	Float			3000117	3000117
7	Discharge Tube Assembly			3002312-316	3002312-316
8	Intake Screen Kit			3003238	3003238
9	Nozzle O-Ring			790499	790499
10	Mounting Plate			3001617	3001617
11	Upper Mounting Bracket Kit			3003239	3003239
12	Lifting Kit*			3002965-316	3002965-316
13	Stabilizer Kit*			3002966-316	3002966-316

Notes:
**Not Shown*

MAINTENANCE KIT
PART #870127-1

SEAL INSTALLATION TOOL
PART #870014

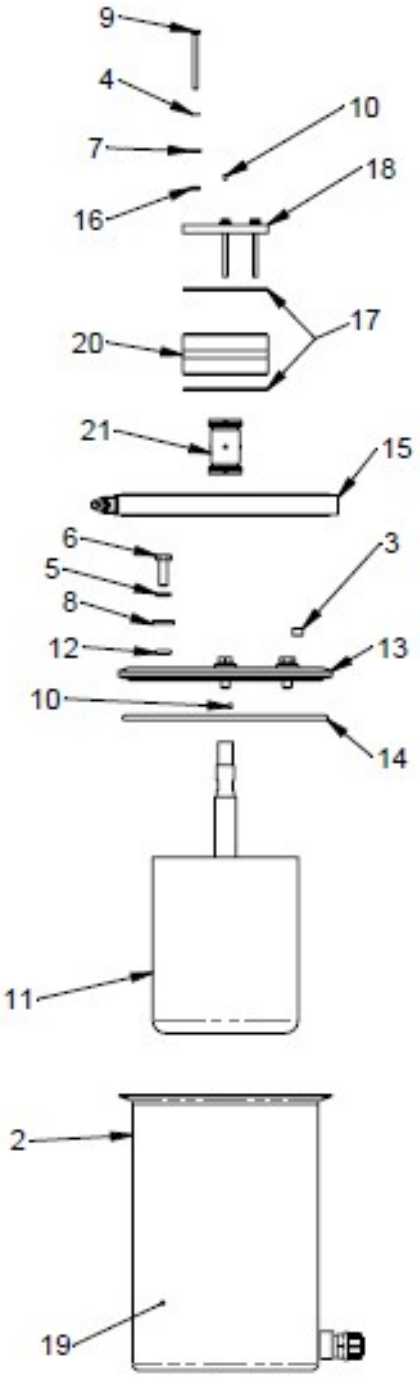
MD002-619



MD002-619

ITEM	QTY	PART NO.	DESCRIPTION
1	3	760014	ASSEMBLY, INSULATOR CAP
2	1	760017	HOUSING ASSEMBLY, 7-15HP, 3PH, 304 SS
	1	760022-60	HOUSING ASSEMBLY, 7-15HP, 304 SS
3	3	790005	PLUG, PIPE, 3/8, BRASS
4	4	790084	WASHER, SPLIT LOCK 1/4, 304 SS
5	4	790162	WASHER, SPLIT LOCK 1/2, 304 SS
6	4	790172	SCREW, HEX, 1/2-13 X 1.50, PT, 304 SS
7	4	790193	WASHER, FLAT, 0.25, Ø0.63 OD X 0.13 THK, 304 SS
8	4	790204	WASHER, FLAT, 0.50, Ø1.25 OD X 0.18 THK, 304 SS
9	4	790278	SCREW, HEX, 1/4-20 X 3.25, PT, 304 SS
10	2	790289	SCREW, #6-32 X 0.19, PPHMS, 304SS
11	1	800107	MOTOR, 7.5HP 1PH 3450RPM 208-240V
	1	800108	MOTOR, 7.5HP 3PH 3450RPM, 208/240 - 380/415 - 440/480
	1	840021	MOTOR, 10HP 3PH 50/60HZ
	1	890053B	MOTOR, 10HP 208/240V 1PH, BALDOR
	1	890063B	MOTOR, 15HP, 3PH, BALDOR
12	4	840022	O-RING, ID 0.50, OD 0.88, 0.19 THK, NBR 70, #310
13	1	840061	PLATE, TOP, 7-15HP HOUSING, 304 SS
14	1	840066	O-RING, ID 11.50, OD 12.00, 0.25 THK, EPDM 70, #452
15	1	840068	CLAMP, HOUSING, 7.5-15HP, 304 SS
16	4	840073	O-RING, ID 0.25, OD 0.50, 0.13 THK, EPDM 60, #202
17	2	840074	O-RING, ID 4.63, OD 4.88, 0.13 THK, NBR 70, #247
18	1	840075	PLATE, SEAL CARTRIDGE, 7.5-25HP, 304 SS
19	1	890062	OIL, 7.5-25HP
20	1	890259	SEAL, TUBE, CARTRIDGE, 7.5-25HP, 304 SS
21	1	890262	SEAL AND SPRING ASSEMBLY, 7-25HP

MD002-241



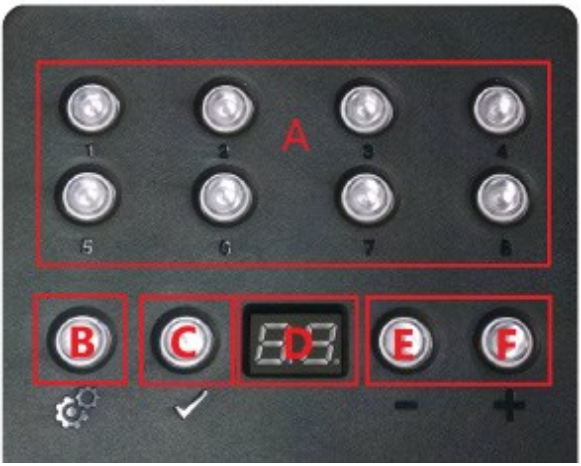
MD002-241

Notes:

Pushbutton RGBW Quick Start Program Guide

Document # 3000989

RGBW Controller Quick Start Guide - New Controller



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.

Document # 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.

Document # 3000989

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)
31. Warm White

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)

Document # 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:

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