



50HZ 7.5 HP OWNER'S MANUAL

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. **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! Submerge lighting fixtures before turning on.

This pump and lighting fixtures are for fresh water only.

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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.

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

MASTERS SERIES® 7.5 - 10HP 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.

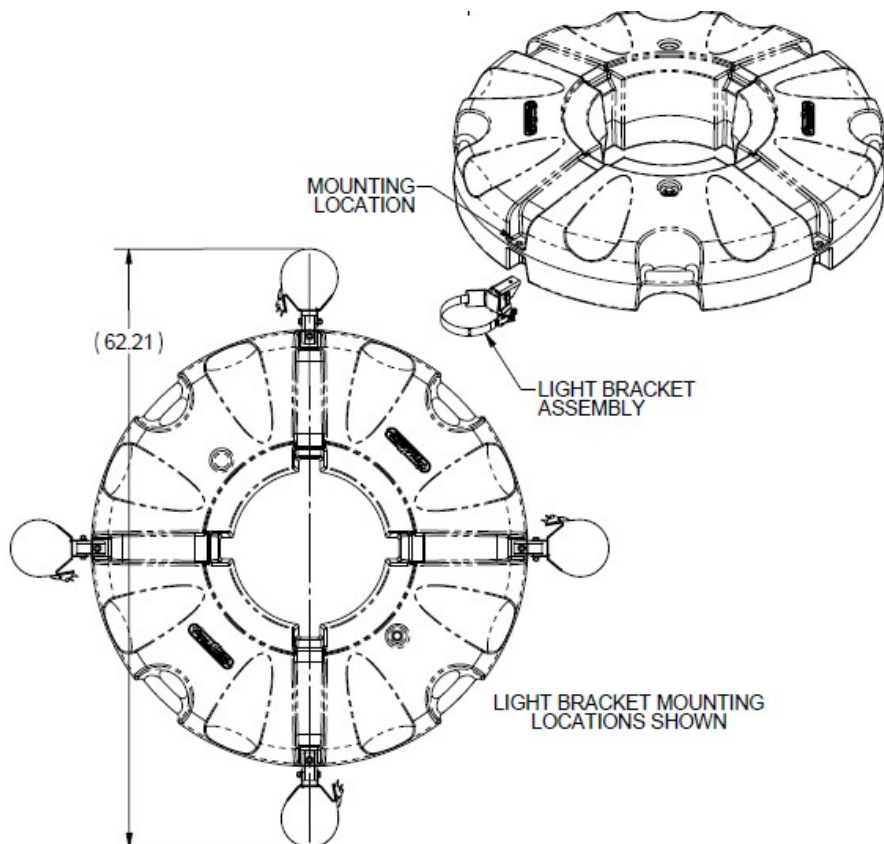
This unit has been shipped assembled to avoid damage during shipment. Please refer to enclosed drawings for part locations.

1. Carefully unpack this unit and inspect for damage.

LIGHT BRACKET INSTALLATION ASSEMBLY INSTRUCTIONS

4 LIGHT SET

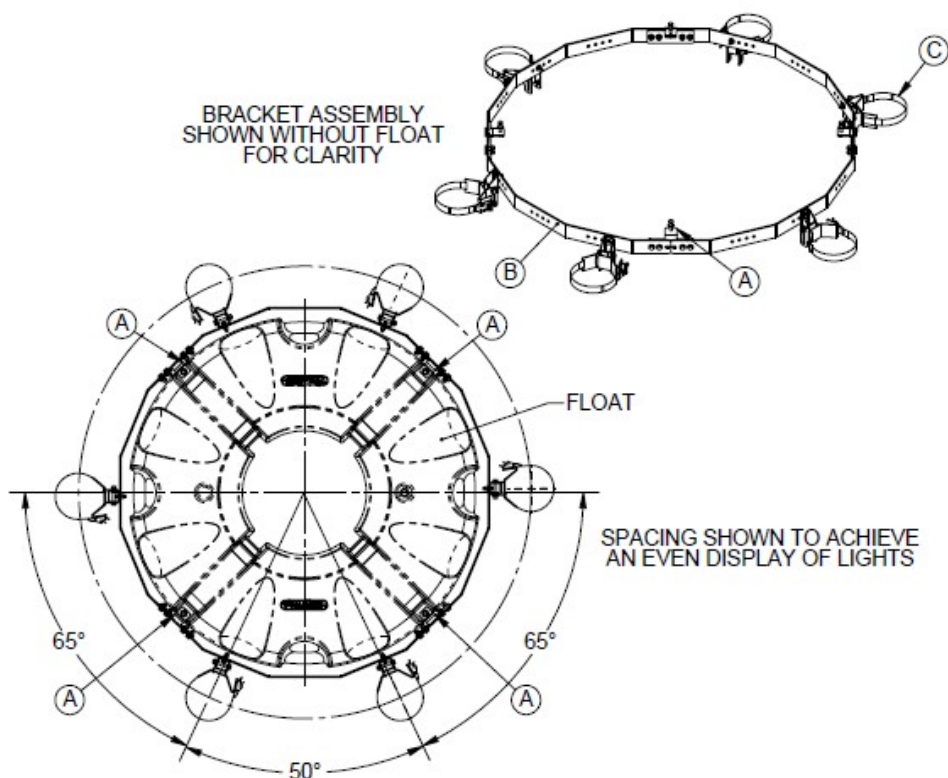
1. SECURE EACH LIGHT BRACKET ASSEMBLY TO THE MOUNTING LOCATIONS ON THE UNDERSIDE OF FLOAT BY REMOVING EXISTING HARDWARE, AND REINSTALLING WHILE REPLACING EXISTING BOLT WITH A 2" BOLT AND REPLACING THE FENDER WASHER WITH A FLAT WASHER.
2. NOTE: LIGHT BRACKETS ARE ADJUSTABLE TO ACHIEVE DESIRED HEIGHT PER LIGHT IN RELATION TO THE WATER LINE.



LIGHT BRACKET INSTALLATION ASSEMBLY INSTRUCTIONS (CONT.)

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 C 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.

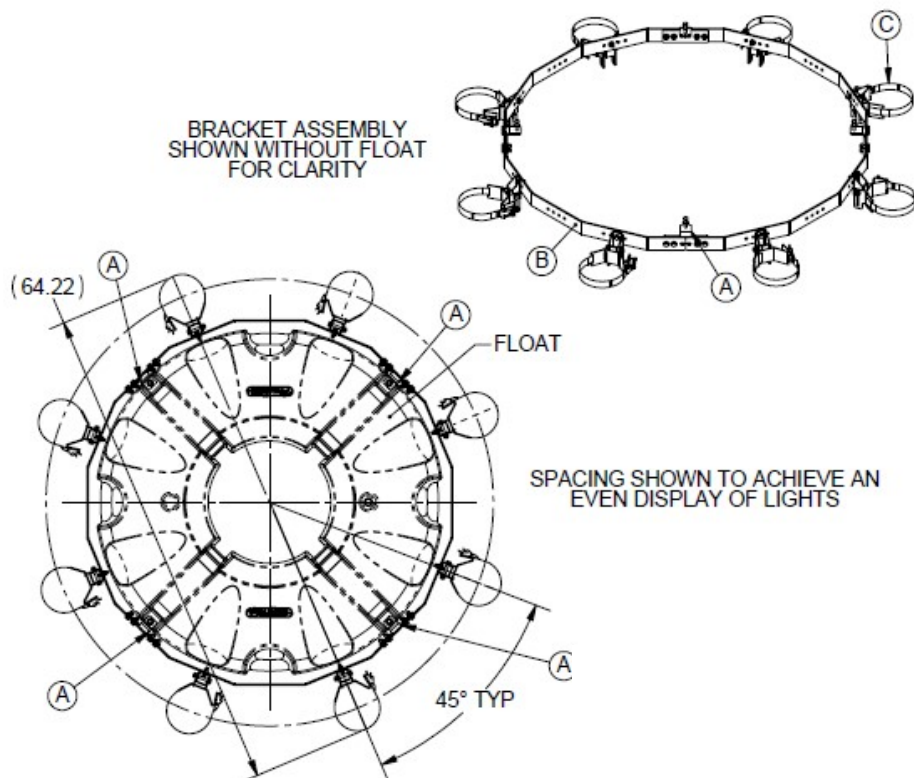


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LIGHT BRACKET INSTALLATION ASSEMBLY INSTRUCTIONS (CONT.)

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.
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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.)

4. Connect light and power unit wires and assemble underwater cable disconnect if necessary.
 - a. Place the O-ring in the O-ring groove. A little grease will help keep it in position.
 - b. Bolt the lugs together as shown below. (Black to Black, White to White, Red to Red, Green to Green.)
 - c. After the hardware is tight, wrap each pair with insulating tape. Tape not included.
 - d. Bend and coil wires inside disconnect housing.
 - e. Place disconnect halves together until the flanges are flush and the O-ring is in contact with both halves.
 - f. Place clamp over flanges. Add washer and nut; tighten with a wrench.

ASSEMBLY INSTRUCTIONS (CONT.)

5. Unit can be rolled into the water using optional cart. If a crane is necessary, use the (4) lifting handles

NOTE: Float hidden from view for illustration only. **DO NOT remove float for lifting.**

6. Adjust light fixtures for best light transmission. Keep light fixture in water at all times for proper cooling.



CAUTION: DO NOT burn the fixtures out of the water except to test the lamps. The lamp housings have to be covered with water to prevent LED failure.

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). 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 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)**

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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.

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 breakers 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

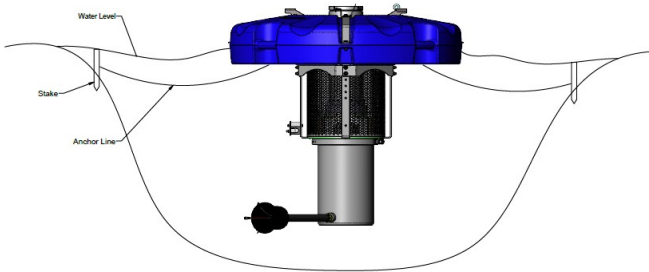
Permanently ground this unit in accordance with local codes or ordinances. Use a copper conductor of the correct size from the grounding terminal in the control box to a grounded connection in the service panel or a properly driven and electrically grounded ground rod.

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)

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

Anchoring Steps

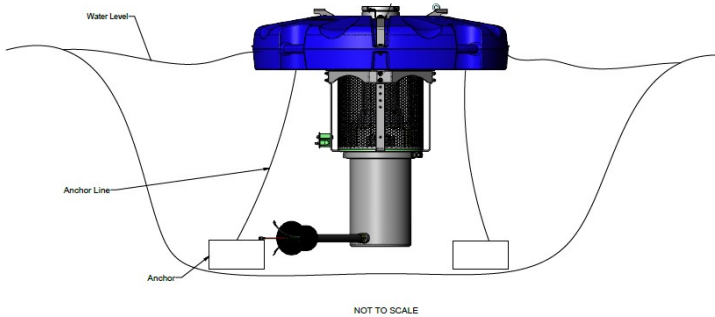
1. With the unit fully assembled and still on shore, attach anchor lines to the S-hooks on the frame. Carefully lower unit into pond. **DO NOT** tangle anchor lines and electrical cable(s).
2. Once the unit is floating freely hold or secure one anchor line. With a second line, walk slowly away from first stake to opposite side of pond, pulling the unit with you. Continue until the 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.

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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)

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

Anchoring Steps

1. With your unit fully assembled and still on shore, attach anchor lines to the S-hooks on the frame. Carefully lower unit into pond. Be sure not to tangle anchor lines and electrical cable(s).
2. Position unit at desired location in pond, laying 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 the float to move up and down with changes in water depth. **If you can rotate the float more than 45 degrees, adjust anchor lines or relocate anchors.**

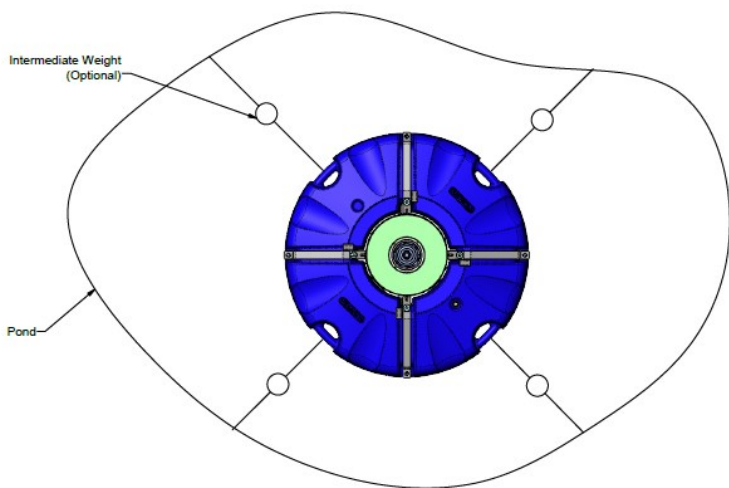
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ANCHORING INSTRUCTIONS (CONT.)

Positioning the Anchor Blocks

1. Attach one end of the anchor rope or stainless steel cable to the unit on the eye bolt provided. Attach the other end to the anchor block.
2. Repeat step #1 in four places; one on each corner of the unit.
3. Coil the rope and place on it on top of the float with the anchor block on top of the coil.
4. Tie two temporary positioning ropes to unit and pull to desired location. Either stake the temporary ropes, or have two people hold ropes until anchors are positioned.
5. Thread one end of a rope loop through first anchor block. Lower block to bottom using rope loop and drag block to take slack out of anchor line.
6. Repeat step #5 with remaining blocks.
7. When all anchor blocks are positioned, remove temporary positioning ropes.

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).



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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.

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.

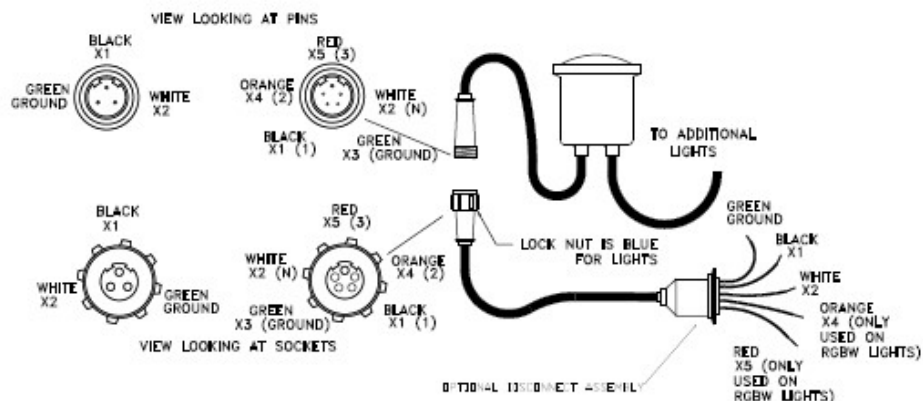
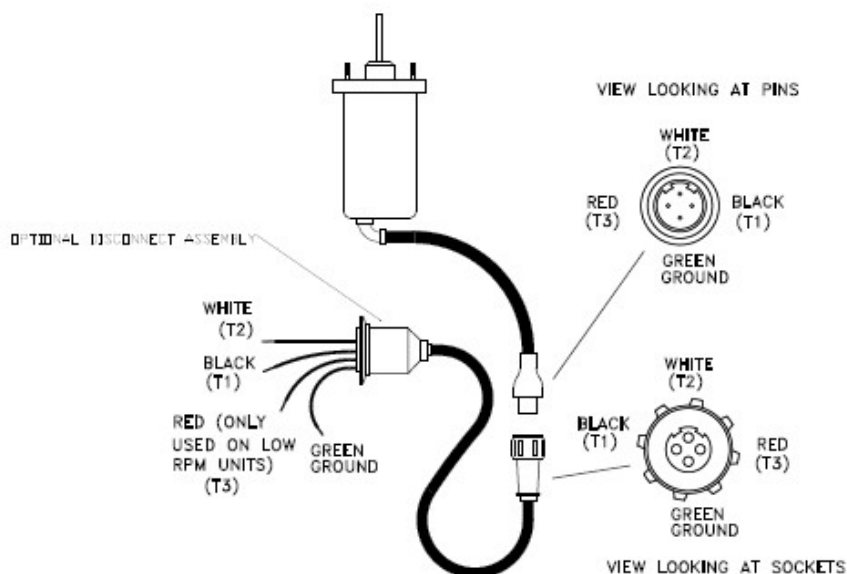
There are specific maintenance procedures, as outlined in these assembly instructions, that will keep your unit trouble free for years. These procedures are especially important should you live in a potentially cold climate. The removal of your **AquaMaster®** unit before freezing conditions occur is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

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



MD001-608

MASTERS SERIES® 7.5 HP IN-WATER COMPONENTS PRODUCT WARRANTY

AQUAMASTER®, hereinafter referred to as The Seller, warrants your Series 304 and or 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, **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 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. **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 7.5HP in-water components for a period of 4 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 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 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.

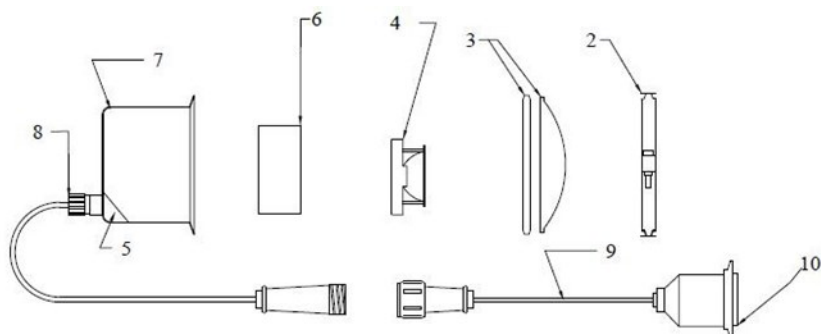
If after inspection of a unit sent in for repair no problem is found, a standard service fee may apply.

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.

Symptom	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.
	Contactor 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	35 Watt	40 Watt RGBW
			LED	LED	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

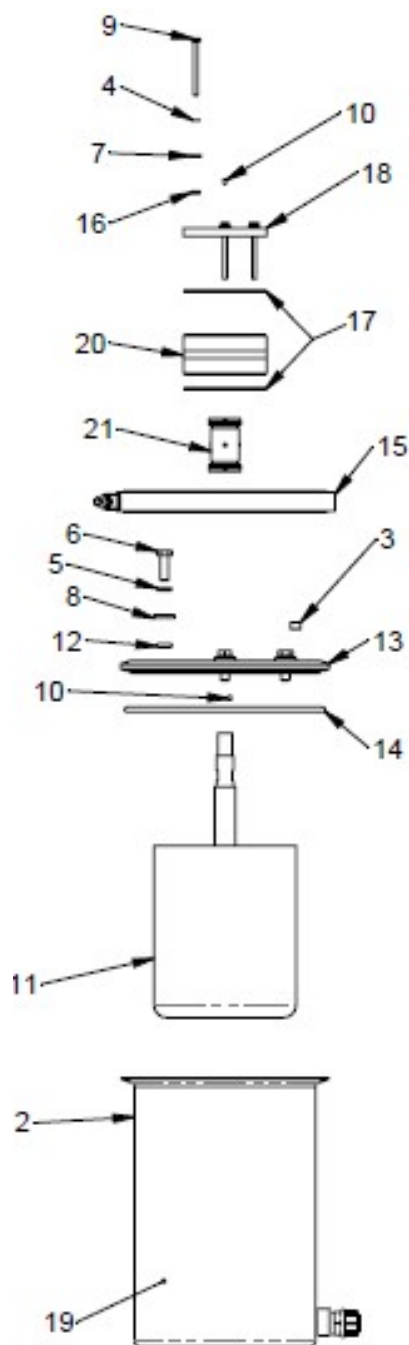
* Select a Board color: Amber, Blue, Green, Red, White.

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

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

MAINTENANCE KIT
PART #870127-1

SEAL INSTALLATION TOOL
PART #870014



MD002-241

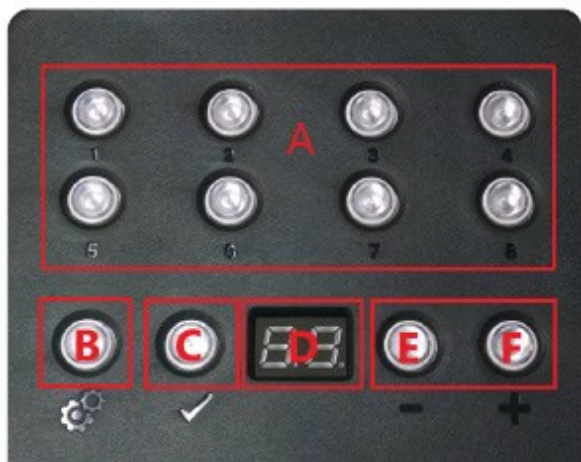
Notes: _____

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Pushbutton RGBW Quick Start Program Guide

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.

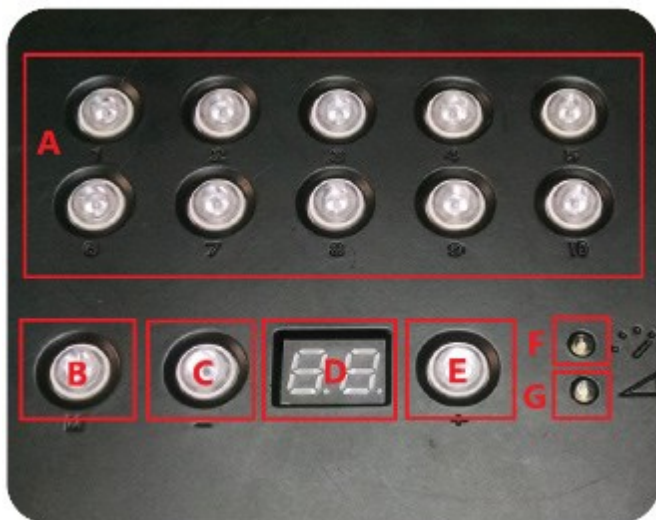
To Change Program Brightness:

1. If not in dimming mode, press the select button (B) until 'dl' 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.

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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.

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RGBW Program List and Custom Programs

Program List:

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

Custom Programs:

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

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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.

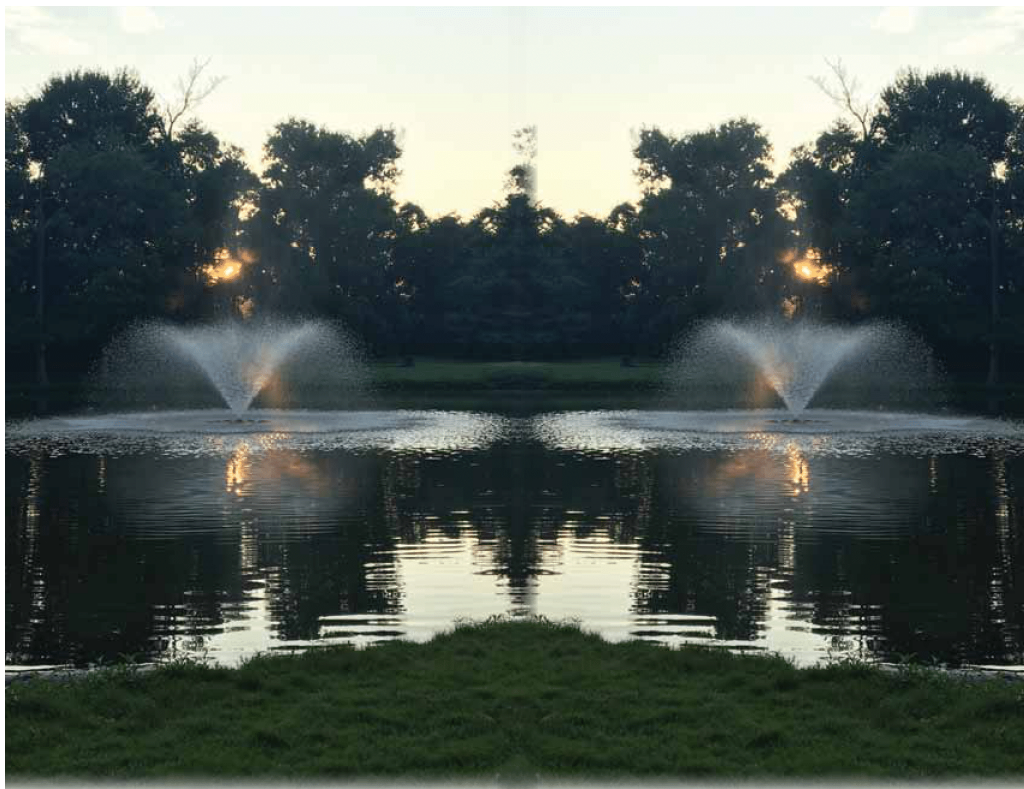
Pastel Rainbow: 12 colors around the color wheel with a white element chasing.

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.



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