Aqua Master®
FOUNTAINS AND AERATORS
A DIVISION OF NIGRELLI INC.
BRINGING WATER TO LIFE

10-25 HP Owner's Manual

Galaxy Select

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. Our 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.

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SHIPPING CLAIMS

When you receive your **AquaMaster®** unit, examine the crate and all packages for any signs of external damage it may have sustained enroute. If there is apparent damage either outside the crate 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.

Disclaimer: Galaxy Select Series units come equipped with a Submonitor which provides additional protections for proper motor operation. Due to site specific conditions, Submonitor parameters may need to be adjusted during the initial installation to ensure proper protection and consistent operation.

GALAXY SELECT FOUNTAINS® 10-25HP
ASSEMBLY INSTRUCTIONS

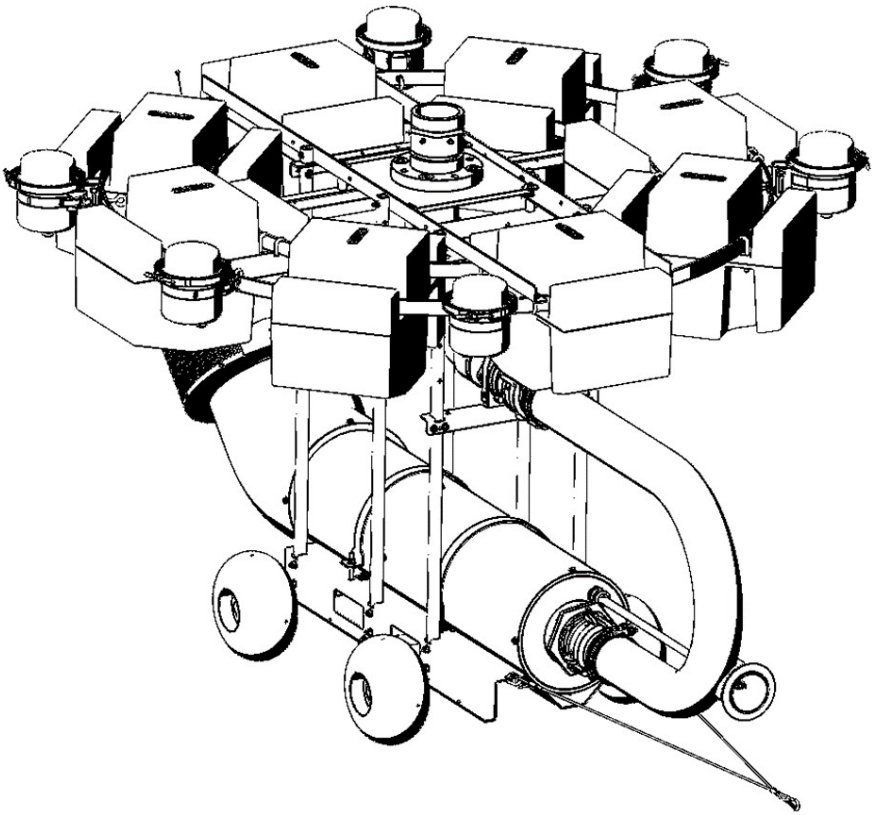
WARNING: Read these instructions carefully. Failure to follow these instructions could cause a malfunction of the system. Improper installation, wiring or anchoring could result in property damage or bodily injury.

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

1. Carefully unpack the unit and inspect for damage.

2. If lights are purchased with the unit, the light brackets will need to be installed, reference Assembly Instructions (3005345)

NOTE: The wheels and axles supplied with this unit are not designed for excessive speed. DO NOT pull or push cart in excess of 5mph.



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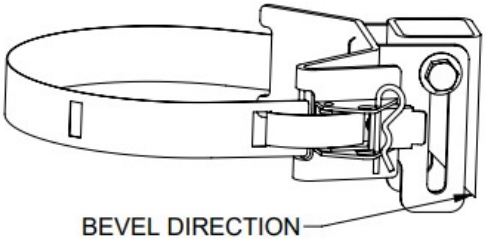
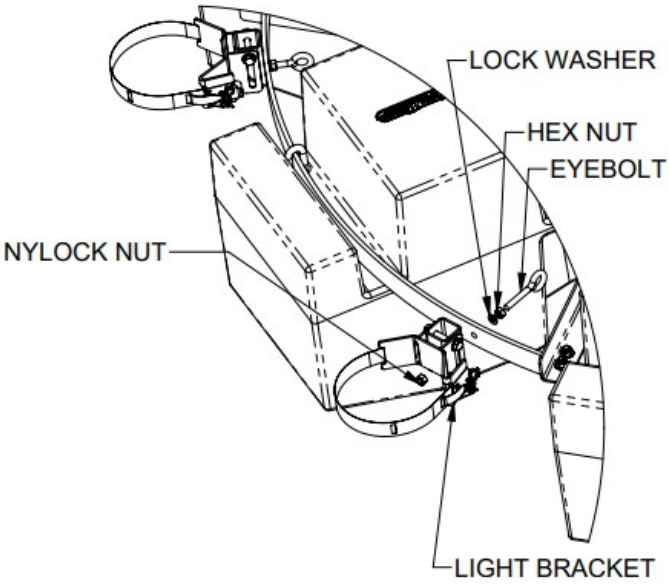
3. If unit is purchased with lights, each light bracket assembly is mounted on the side of the float frame using the provided hardware. Bevel of the mounting brackets should be faced down as shown in the picture, reference Assembly Instructions (3005345)



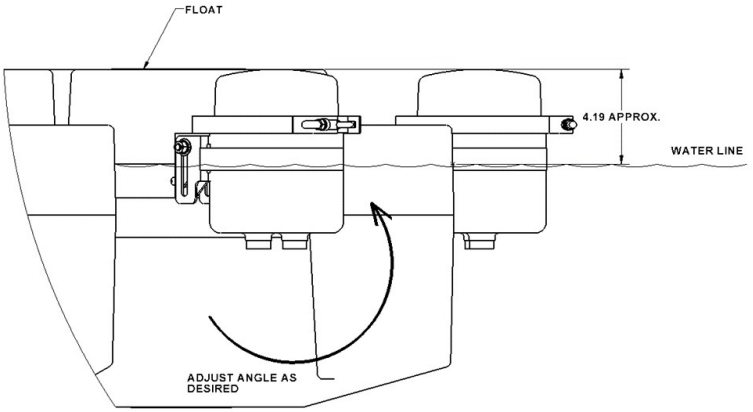


4. Light cable strain relief should be clipped to nearest eyebolts for support. If cable strain relief is not clipped to the nearest eyebolt for support, unnecessary strain on the cable will occur.

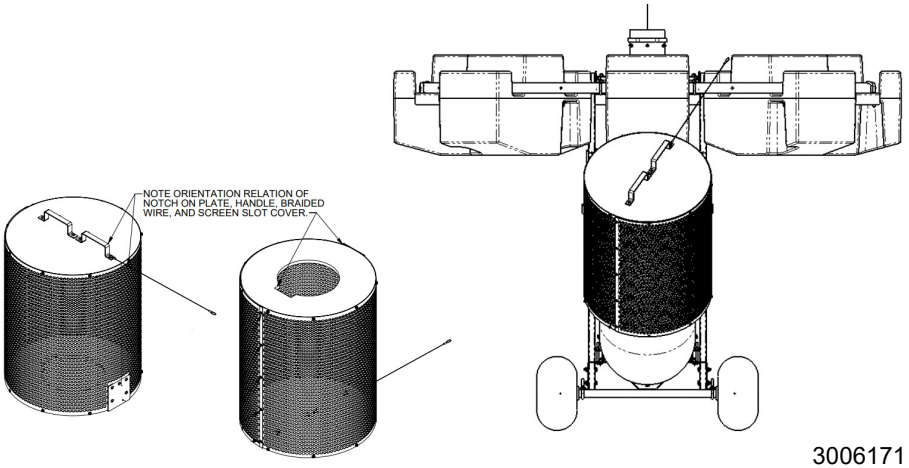
ASSEMBLY INSTRUCTIONS (CONT.)

5. With the unit in the water, adjust the lights so as much of the housing is submerged in the water as possible. The lens may be above water but the housing must be submerged. Keep in mind, the thrust of the unit will also lower the entire assembly into the water.

NOTE: After the unit is installed and anchored (refer to anchoring instructions on page 16-18), do the final adjustments of the light fixtures when the unit is not running. Adjust the light bracket so as much of the light is submerged as possible. This will ensure that the fixture has adequate cooling while the unit is running.



6. Installing Intake Screen
   A. Line up the notch on the intake screen with locating plate on intake tube.
   B. When the intake screen is fully seated on the intake tube, turn 180 degrees to lock into place.
   C. Attach tether of intake screen to frame of fountain.



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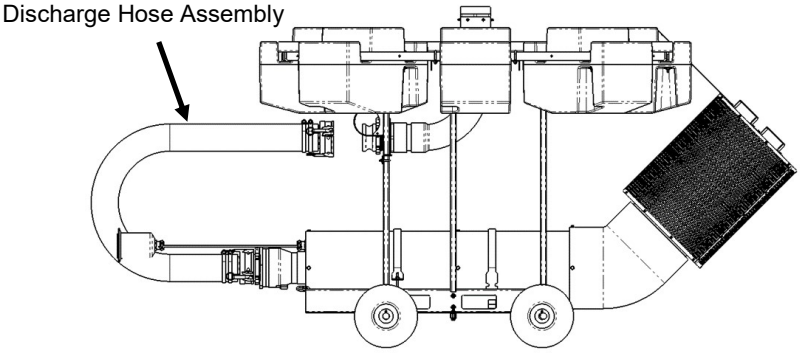
ASSEMBLY INSTRUCTIONS (CONT.)

7. Installing Discharge and Nozzle

   A. The discharge assembly is shipped fully assembled.
   B. Remove the discharge assembly from its shipping packaging, along with the mounting hardware.
   C. Lower the discharge assembly into the top of the fountain, ensuring that the bottom aligns with the cradle on the frame.
   D. Utilize the strap with an anti-slip strip to secure the bottom of the discharge tube to the frame.
   E. Ensure the top plate is firmly seated on top of the frame. Use the four fender washers and nuts to attach the nozzle plate to the frame.
   F. Screw the nozzle on the discharge assembly.

8. Install Discharge Hose Assembly:

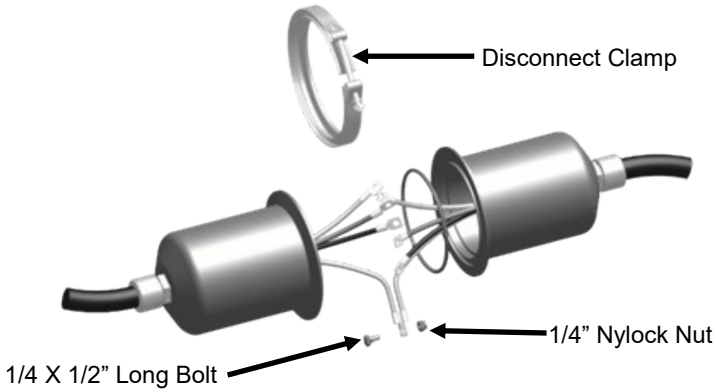


   A. To make connection with power unit
      1. Align and insert the male and female ends of the coupling.
      2. Rotate the locking mechanism to secure the connection.
      3. Ensure a tight fit to prevent leaks.
      4. Slide a zip tie through the locking rings.
      5. Tighten the zip tie to secure the coupling further.
   B. Repeat process for connection to nozzle assembly.

ASSEMBLY INSTRUCTIONS (CONT.)

9. Connect light and power unit wires and assemble underwater disconnect if necessary.

   A. Place the O-ring in the O-ring groove. Apply grease to O-ring to keep O-ring in position.
   B. Bolt the lugs together like shown below. Red to Red, Black to Black, Green to Green, White to White.
   C. After the hardware is tight, wrap each pair with insulating tape.
   D. Bend and coil wires as necessary to get them inside of the 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 and then tighten with a wrench.



The unit can be rolled into water. If the unit cannot be rolled into the water, a certified lifting provider will be required for the unit's safe handling. A tow cable is provided for pulling the unit up to shore or when removing the unit from water. Release the cable from the clip attached to the frame prior to pulling and reattach the cable to the clip when finished.

ELECTRICAL CONNECTION FOR 10 - 25HP

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 are 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 your 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) LED or five (5) RGBW conductor cables for the lighting system and securely fasten them 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.
E. (Optional) Connect orange lead from cable to terminal marked X4 on terminal strip.
F. (Optional) Connect brown lead from cable to terminal marked X5 on terminal strip.

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.

AFTER INSTALLING INTO THE WATER, test the unit briefly to make sure it runs and rotation is correct. Backwards rotation is usually indicated by a lower than advertised pattern height. To change rotation on three phase units, switch any two motor 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. Water is needed to properly seat the thrust bearings in the pump, failure to follow these direction will destroy pump and void product warranty.

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.

SUBMONITOR OPERATING INSTRUCTIONS

The control panel for all three phase Galaxy Select Series Fountains comes standard with a Submonitor for additional motor protection. Disabling or modifying any of the parameters without prior authorization from AquaMaster may void the warranty.

Using the Control Interface

1. Display: Shows system status information and programming menu items.

2. SHIFT: Press SHIFT to move the blinking cursor to the left one position for each button press. When the cursor reaches the leftmost editable position, another SHIFT button press moves the cursor to the right-most position of the parameter.

3. UP and DOWN: Use to navigate menus and adjust parameters.

4. ENTER: Executes menu selection and confirms any changes made to parameter settings. Also allows user to access submenus and selected parameters.

5. ESC: Pressing the ESC button moves the menu back one level.

6. Run LED: This green LED lights to alert the user to water flow (the pump motor is running).

7. Fault LED: Off (when not lighted) indicates normal operation. A blinking LED indicates the measured current is higher than the Overload setting and will trip soon if the condition persists. A solid on LED indicates an active fault condition.

Note: To reset the fault, press and hold the red reset button in the control panel for approximately 5 seconds.

Menu Navigation

Use the UP and DOWN buttons to navigate through each of the sub-menus.

Press ENTER to go into the sub-menus.

ESC can be used to go back a level.

NOTE: Modifying any of the parameters without prior authorization from AquaMaster may void the warranty.

Main Menu Displays

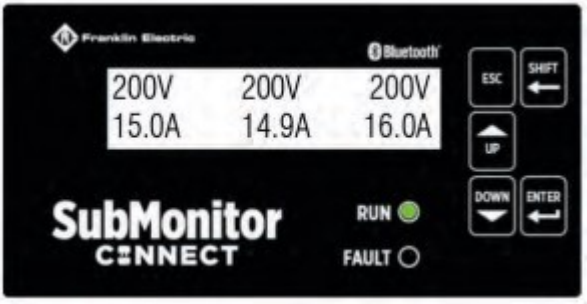
Real-time system status can be viewed from the main display by scrolling through the Quick View screens.

Scrolling further will cycle through the other monitoring and programming menus, eventually returning to the Home screen.

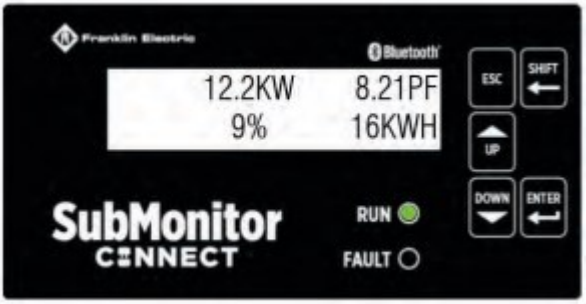
NOTE: The FE Connect mobile app can also be used to view real-time SubMonitor Connect system status. Refer to “FE Connect Mobile App” below.

Home Display Shows that the device is running or stopped, average voltages and amps. Press DOWN to see the next display:

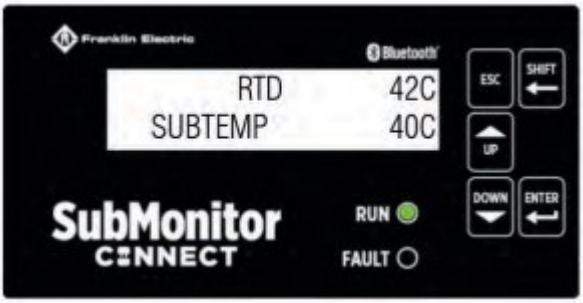
Quick View 1 Shows the voltage and amperages for the three phases of power. Press DOWN to see the next display:



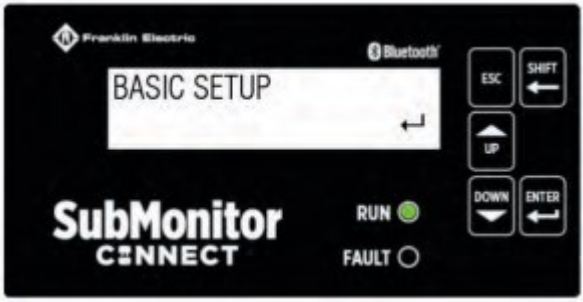
Quick View 2 Shows the wattage, power factor, and kilowatt hours. Press DOWN to see the next display:



Quick View 3 Shows the PT100/PT1000 or SubTemp measured temperature in °C. This display shows SubTemp enabled. **Note:** AquaMaster doesn't use this function on standard units. Press DOWN to see the next display:



Basic Setup Press ENTER to go into the Basic Setup submenus. NOTE: Modifying any of the parameters without prior authorization from AquaMaster may void the warranty. Or press DOWN to see the next display:



Fault History Press ENTER to go into the Fault History submenus. Use the UP and DOWN buttons to view the fault history. Up to 150 faults can be stored at a time. Or press DOWN to see the next display:

View Menus Press ENTER to go into the View Menus submenus. Or press DOWN to see the next display:

Advanced Setup Press ENTER to go into the Advanced Setup submenus. Or press DOWN to return to the Home Display (shown on the previous page).

NOTE: Modifying any of the parameters without prior authorization from AquaMaster may void the warranty.

SUBMONITOR OPERATING INSTRUCTIONS (CONT.)

FE Connect Mobile App

The FE Connect mobile app is an intuitive way to wirelessly configure and control your SubMonitor Connect. It provides features such as:

- Simple, application-based setup for quick and easy startup
- Informational dashboard for visual monitoring of system performance
- In-app troubleshooting with fault time and date logging
- Email system logs directly to FE support

The FE Connect mobile app can be downloaded from either the Apple App Store™ or the Google Play™ store.

Troubleshooting

The SubMonitor Connect includes extensive self-diagnostic features that can identify faults when there is a problem. The Fault History menu maintains a running list of the last 150 recorded faults, along with time stamped data about the system status when the fault occurred.

NOTE: The FE Connect mobile app can also be used to access the fault log in Fault History.

To access Fault History from the HOME screen:

1. Press the DOWN button repeatedly until you see the menu item Fault History and then press the ENTER button.

2. Use the UP or DOWN buttons to scroll to the desired fault number, 1-150.

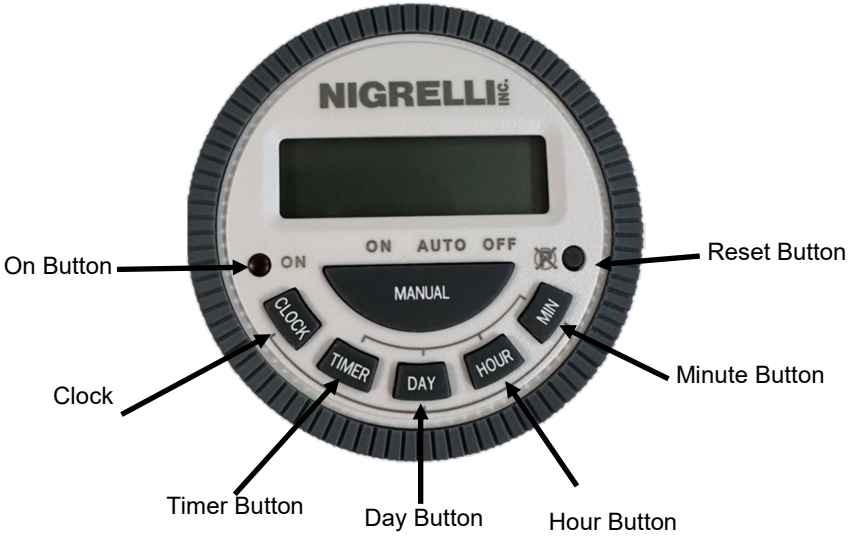
3. While viewing the desired fault number, press ENTER to view the captured data for that fault.

4. Refer to the Franklin Submonitor manual for fault description or contact AquaMaster for further assistance.

4. To reset the Submonitor, press and hold the red reset button for approximately 5 seconds.

Notes:

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: You must advance 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 the TIMER button once. "1^{ON}--:--" appears.

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

4. Press the HOUR / MIN button repeatedly for desired ON time.
   Note: You must advance past 12:00 to set PM.

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

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

7. Press the HOUR / MIN button 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 the CLOCK to execute programs.

10. Press the MANUAL button 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 the TIMER button. "1^{ON} --:--" appears.
2. Press the DAY button until Mo through Su is displayed.
3. Press the HOUR button until 7:00 AM appears.
4. Use the MIN button until :00 appears.
5. Press the TIMER button. "1OFF --:--" appears.

EVENT 1 - OFF

1. Press the DAY button until Mo though Su is displayed.
2. Press the HOUR button until 11:00 PM appears.
3. Press the MIN button until :30 PM appears.
4. Press the CLOCK button to execute the program.
5. Press the MANUAL button 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 the TIMER button.	"1^{ON} --:--" appears.
2. Press the DAY button until Mo Tu We Th Fr appears.	
3. Press the HOUR button until 7:00 AM appears.	
4. Press the MIN button until :30 AM appears.	
5. Press the TIMER button.	"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 the DAY button until Mo Tu We Th Fr appears.
2. Press the HOUR button until 11:00 PM appears.
3. Press the MIN button until :30 PM appears.
4. Press the TIMER button until "2ON --:--" appears.

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

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

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

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

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

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

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

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

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 the TIMER button repeatedly until the event that you wish to change is displayed.
2. Press the DAY, HOUR, or MIN button to adjust the event setting.
3. Press the CLOCK button to return to the time of day.

NOTE: If you need to delete an on / off time, you must **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 overridden. 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 the MANUAL key, to move the indicator from "AUTO" to "ON", timer shall turn to "ON" status, programs overridden. 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".

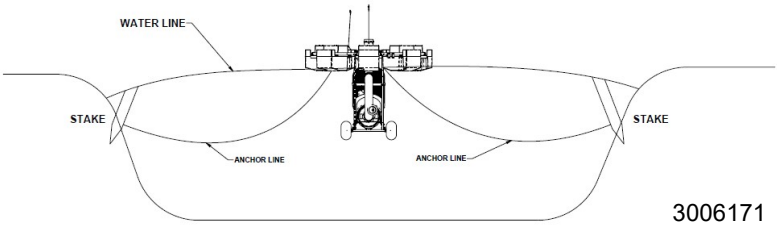
ANCHORING INSTRUCTIONS

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 ponds, or one that is easily accessible from two sides

FIGURE 1

.



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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.

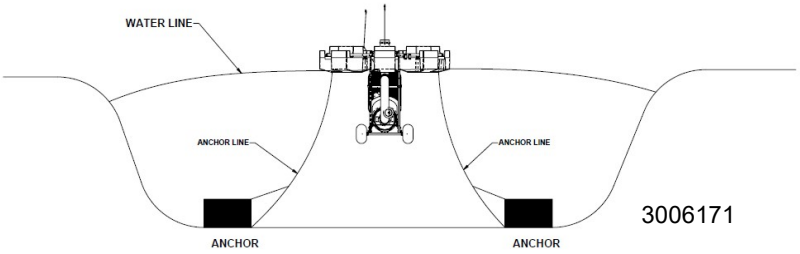
3. Secure all lines, keeping tension on all. Make sure electrical cable(s) is untangled and has some slack from unit to shore.

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).

FIGURE 2 is the preferred method for larger bodies of water or where vandalism is a concern.

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.

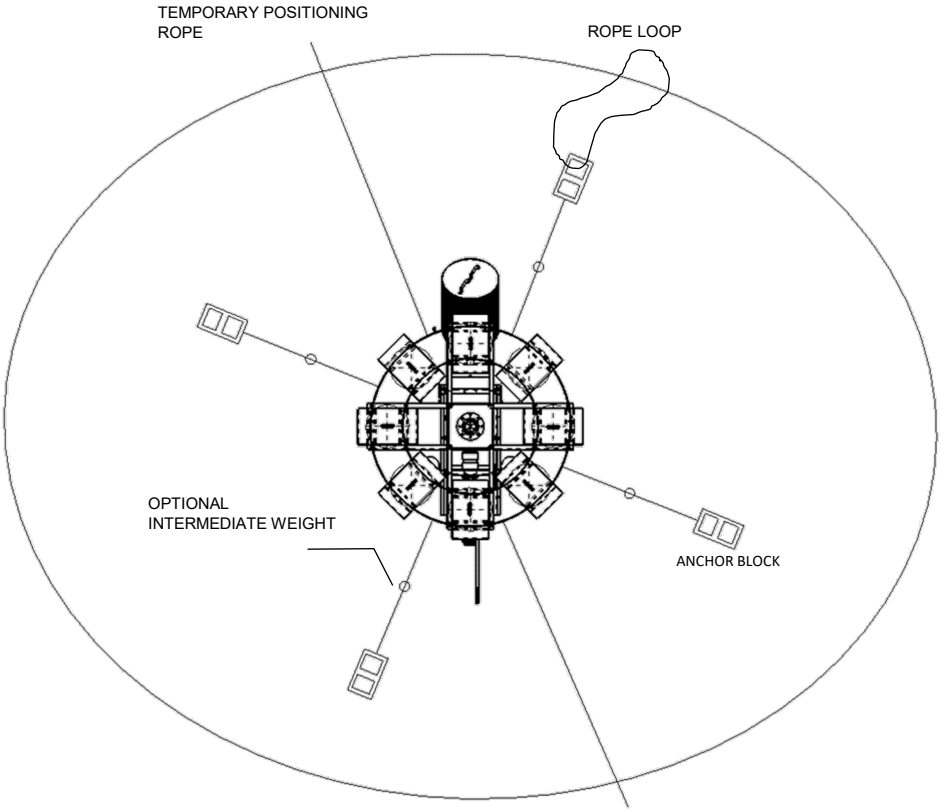
1. The drawing below depict the manner in which the anchors are to be deployed.

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).



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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.

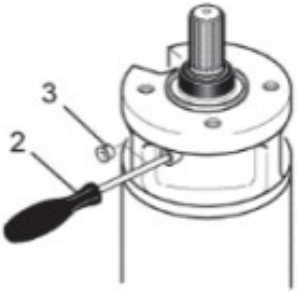
To prepare for winter storage, its critical to avoid freezing temperatures to prevent potential damage. Ensure that storage locations maintain temperatures above freezing. If storing in an area that has the potential to freeze its important to drain any fluid from the motor and replace with the recommended fill solution. See instruction on the next page on how to fill motor with new filling solution.

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

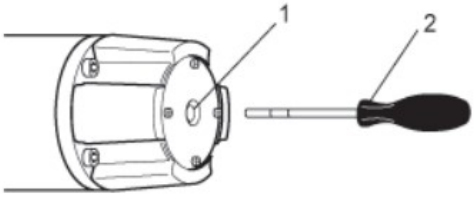
WARNING: When operating the unit in ice covered bodies of water, the ice around the open water will be dangerously thinner than the rest of the body of water. Signs such as **DANGER THIN ICE** need to be posted. Injury and/or fatality may result if this danger is not posted. **Owner assumes all responsibility.**

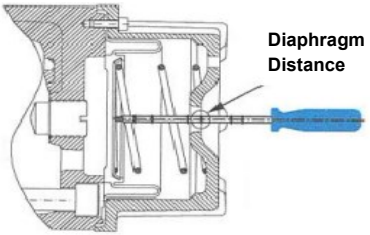
WINTERIZATION (CONT.)

There may be an interchange of fill solution with water during operation. If storing in a location where freezing may occur, it is necessary to drain and fill motor with new fill solution.



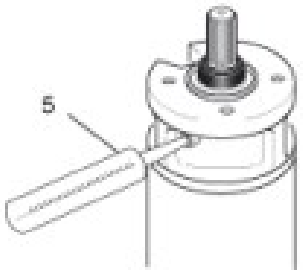
1. Place the motor so the filling valve is located at the highest position.
2. Remove the plug (3) from the filling valve.
3. Using the push test pin found in the fill kit (3006110) carefully push the test pin (2) into the filling valve until air and some fluid escape from the fill valve.
4. To check how much fluid is in the motor, lay motor horizontally.
5. Feed the test pin (2) through the opening (1) in the diaphragm housing until you can feel resistance.





6. Measure the actual diaphragm distance to the side of the opening in the diaphragm cover.
7. The measured result must be **59mm +/- 2mm**. If the measured results is not identical to target value, it will be required to top up or drain motor.

8. To drain motor, use the push test pin to release fluid from the motor.
9. To top up motor, apply the filling syringe (5) to the filling valve.
10. Top up the motor filling fluid until the value of the diaphragm position is lower than the target value.
11. Adjust the diaphragm position by draining or topping up motor fluid until the target value is reached.
12. Install the plug (3) again.



AquaMaster Part #: 3006110

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 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 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 1.800.693.3144 or 1.920.693.3121.

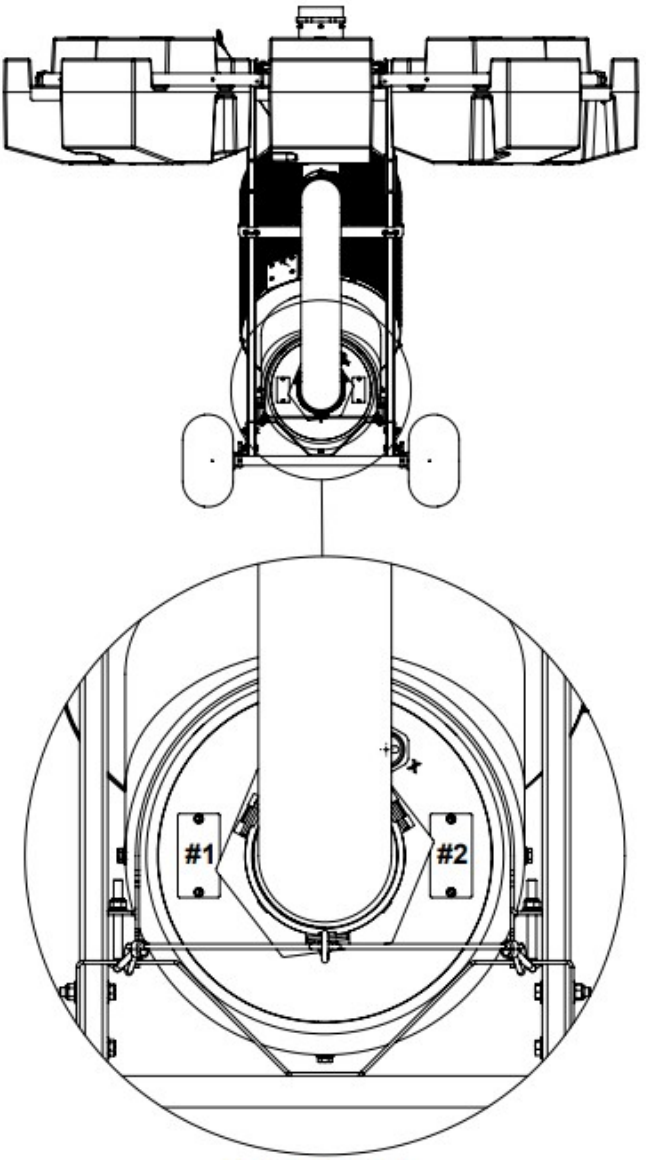
TROUBLESHOOTING GUIDE

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.	Debris on the intake screen	Clean the debris. **NOTE:** Plastic bags, plastic wrap on the intake screen. This must be clean for proper performance.
	The nozzle is clogged.	Remove the nozzle and clean out the debris.
	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 is 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.

Serialization Tag Locations

#1 Pump Assembly Serialization
#2 Power Unit Serialization



ENLARGED VIEW
TO SHOW DETAIL

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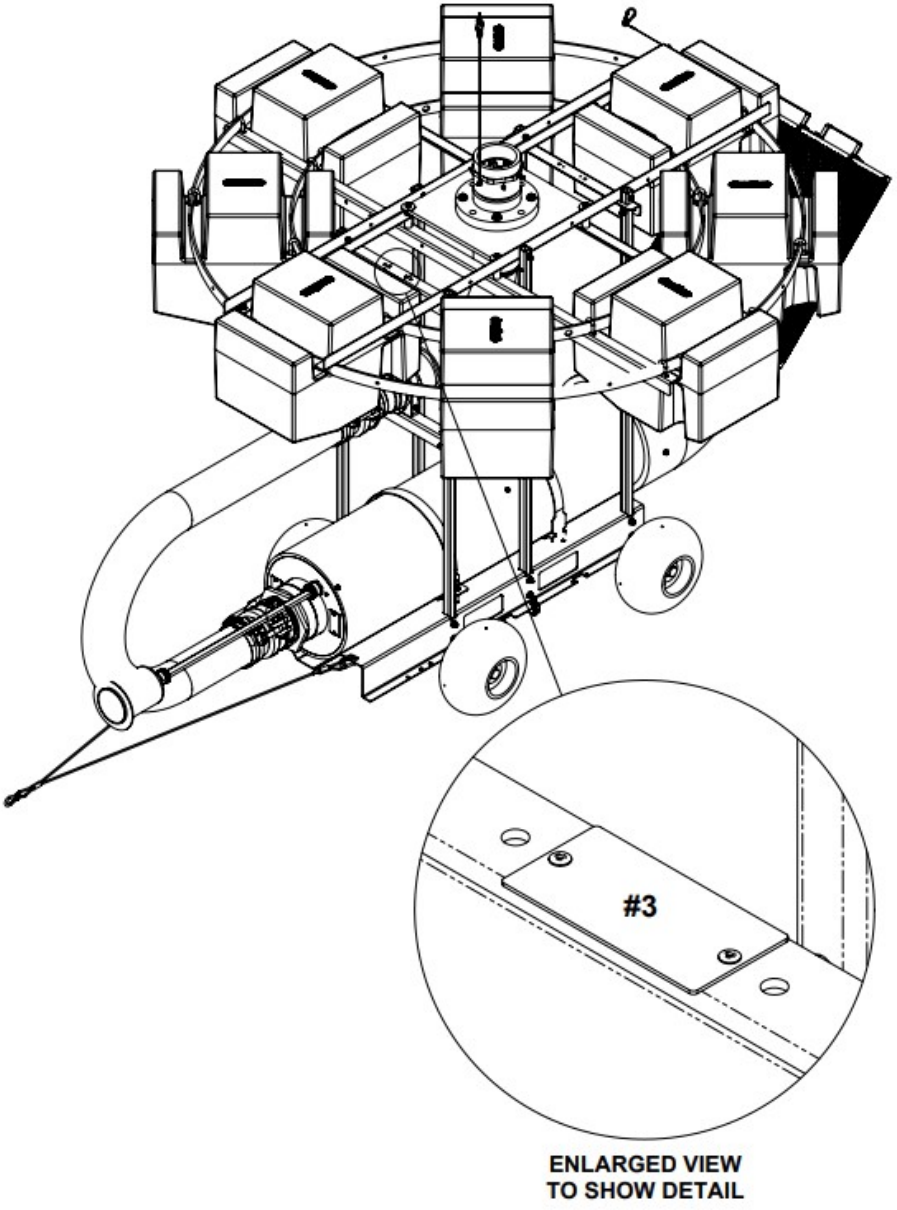
Serialization Tag Locations

#3 Unit Serialization



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GENERAL WARRANTY INFORMATION

Warranty at a Glance Information can be found at:

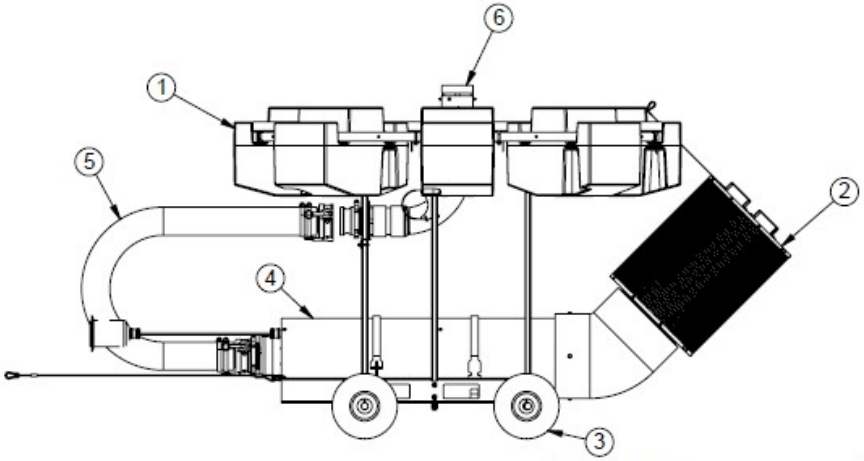
https://www.aquamasterfountains.com/warranty-information/

General Warranty Information can be found at:

www.aquamasterfountains.com

Galaxy Select Series

10-25HP 60Hz



Item	Description			Part Numbers			
				10HP	15HP	20HP	25HP
1	Float			3001210	3001210	3001210	3001210
2	Screen Assembly			3005818	3005818	3005818	3005818
3	Wheel Kit			760734	760734	760734	760734
4	Power Unit Assembly	1PH	240V	**Consult Factory	N/A	N/A	N/A
		3PH	240V	3006049	3006052	3006054	3006056
			460V	3006050	3006053	3006055	3006057
5	Discharge Hose Assembly*			3005815-001	3005815-001	3005815-001	3005815-001
6	Standard Discharge Assembly			3005823	3005823	3005823	3005823
	Scorpio Discharge Assembly			3005824	3005824	3005824	3005824
	Olympian Discharge Assembly			3005825	3005825	3005825	3005825
7	Disconnect O-Ring			890082	890082	890082	890082
8	UV Resistant Cable Tie***			3005860	3005860	3005860	3005860
9	Disconnect Kit (Power Unit Side Only)			3006173	3006173	3006173	3006173
10	Water Cooled Motor Filling Fluid			3006107	3006107	3006107	3006107

Consult factory if you have an Olympian or Scorpio.

***Consult factory if you are requesting a 10HP 1PH Unit*

****Order in multiple quantites. Cable tie is used to secure the discharge hose to the unit. If one is removed it needs to be replaced.*

Sheet Format Revision: 2022/03/16

SAVED: 2023-08-14 10:22:32 PM

Aqua Master FOUNTAINS AND AERATORS

16024 COUNTY RD. X, KIEL, WI. 53042

Document: MD002-800
Revision: A, 2023-08-02

Galaxy Select Cable Sizing Chart									
Single Phase 4 Conductor			4 Conductor Copper Wire Gauge Size						
Unit	Volts	Approx Amps	#14 (ft)	#12 (ft)	#10 (ft)	#8 (ft)	#6 (ft)	#4 (ft)	#2 (ft)
10 HP	220-240*	58	--	--	--	--	150	300	450
Three Phase 4 Conductor			4 Conductor Copper Wire Gauge Size						
Unit	Volts	Approx Amps	#14 (ft)	#12 (ft)	#10 (ft)	#8 (ft)	#6 (ft)	#4 (ft)	#2 (ft)
10 HP	220-240*	34	--	--	--	200	350	600	900
10 HP	440-480	17	--	--	600	950	1500	2400	3700
15 HP	220-240*	44	--	--	--	150	250	450	700
15 HP	440-480	22	--	--	--	700	1150	1850	2850
20 HP	220-240*	54	--	--	--	--	200	350	550
20 HP	440-480	27	--	--	--	600	950	1500	2350
25 HP	220-240*	64	--	--	--	--	200	300	450
25 HP	440-480	32	--	--	--	500	800	1250	1950
The 7.5HP-25HP models require a minimum voltage of 220V.									

Notes:

WIFI Controller Quick Start Guide

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WIFI Controller Quick Start Guide - New Controller

1. Power up the transformer.

2. Connect to the "**Land Master**" or "**AquaMaster"** WiFi Network. The default password is "1**2345678**".

3. Scan the QR code or enter http://192.168.1.1 into a browser URL bar and press enter to access the Homepage screen. Bookmark for later use.

4. Toggle the lights off, on, and off again to ensure functionality (RGBW lights may come on when the transformer is first powered up, this is normal).

5. Navigate to the WiFi Settings screen to set up a new network name and password if desired. Note: The password must be at least 8 characters:

Homepage → Manage Device → Settings → Manage WiFi Credentials

6. Navigate to the GPS screen and wait for a GPS connection. This may take a couple minutes if it's the first time connecting from this location:

Homepage → Manage Device → Settings → GPS

7. Once the GPS is connected set the appropriate Daylight/Standard and Time Zone Settings. Daylight and Standard time must be manually changed each spring and fall. This is because they are set by legislation and not astronomical events, and therefore subject to change.

8. Click Refresh GPS coordinates. Click Save GPS coordinates.

9. Return to the Homepage screen and select a pattern.

10. Select the desired **ON/OFF** or automatic **ON/OFF** setting. "**Run From Sunset to Sunrise**" is the recommended setting for most users.

11. If using the User Defined Run Times option, set the user defined time frames in the User Defined Run Times Settings screen:

Homepage → Settings → User Defined Run Times Settings

Note: Setting overlapping start and stop times may cause erratic on/off behavior.

12. Disable Auto Join from the network and disconnect.

WIFI Controller Step by Step Guide

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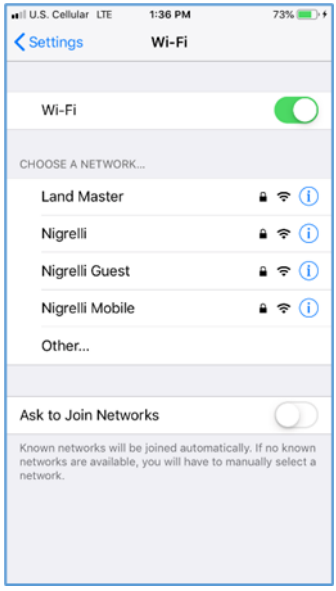
SECTION 1 - Accessing the Wireless Access Point

1. Ensure the Land Master Transformer Panel is plugged in.
2. Flip the Toggle Breaker up towards the "**RESET**" position to power on. Land

   Master RGBW Lights may come on at this time.
3. Ensure that the "**POWER**" and "**TEMP OK**" LEDs are both on. The "GPS" LED may also begin blinking after a little time.
4. Go to your phone, tablet or computer's available WiFi networks and select "**Land Master**" or "**AquaMaster"**. Enter the default password of "**12345678**" without the quotation marks and press the Join or Join Network button:



NOTE: Some devices may give a warning that the WiFi network has no internet connection available. This is normal and you should click the corresponding option to proceed anyway.

5. Scan the QR code inside the transformer panel,

   OR

   Open a browser such as Safari, Firefox, Chrome, or Internet Explorer and type in the address http://192.168.1.1 in the URL bar. Press Enter, Return, or Go to open that address.

6. The homepage will come up. Bookmark this page for ease of use in the future.

7. Click the "**On**" button and any Land Master analog lights you have connected to the transformer should come on (Aqua Master fountain lights or Land Master landscape lights may already be on).
8. Click the "**Off**" button and all the lights should turn off after a moment.
9. Click the "**On**" button once more and this time all lights should come on.

SECTION 2 – Setting your Network Name and Password

Note: You may continue using the default WiFi name and password if you choose unless there is another Land Master network nearby.

1. Navigate to the WiFi Credential Management page:
   Homepage → Manage Device → Settings → Manage WiFi Credentials
2. Enter the current password. If this is your first time setting up, the default password will still be "**12345678**". Press Enter.
3. To change the password, select "**Change Password**". Enter a new password and confirm the new password.

   NOTE: Passwords under 8 characters may not work on some devices. Please use at least 8 characters. Write down your password and keep it in a safe location.
4. To change the WiFi name, select "**Change WiFi Name**". Enter a new WiFi name. Ensure that you are not using the same name as any of the other available networks.
5. You must power off the LML Transformer and power it back on before the new WiFi name and passwords will take effect. You will remain connected with the initial WiFi name until the unit is power off and back on.
6. You may always return the WiFi Name and Password to the factory defaults of "**Land Master**" or "**AquaMaster"** and "**12345678**" respectively by holding the "SSID Reset" button on the front of the transformer down for 10 seconds and then cycling the power off and back on.

SECTION 3 – Initializing the GPS and Time Settings

1. From the Homepage, navigate to the GPS page:
   Homepage → Manage Device → Settings → GPS
2. Wait for the GPS to get satellite connections. This may take several minutes the first time the GPS connects from your location. Once a connection is established the screen will automatically refresh to display the time and GPS coordinates.

3. Select the appropriate Standard or Daylight time setting and Time Zone for your area.

   Note: You will need to update between Standard and Daylight time when the time changes for user defined ON/OFF times. The Sunset and Sunrise ON/OFF functions use astronomical timing and will work regardless of whether the time setting is updated.

   ***You must manually change between Daylight and Standard time each spring and fall since these are set by legislation and not astronomical events, and therefore may change from year to year.*

4. Next, scroll down to "**Current GPS Coordinates**" and tap the refresh GPS coordinates button. Your current GPS coordinates will appear.

5. After refreshing the current GPS coordinates, scroll down and tap the "**Save GPS Coordinates**" button. This will update the internally saved GPS coordinates.

SECTION 4 - Selecting a Lighting Pattern or Color

1. From the Homepage click "**Patterns**" option on the menu.
2. Select a pattern or static color from the list. The RGBW lights will turn on when a pattern is selected regardless of the **ON/OFF** status of the light or user defined time setting.
3. When you have selected a light pattern or color, return to the Homepage.
4. You may leave the lights on or turn them off if. Whenever the lights are turned on, they will display the last selected pattern or static color selected.

SECTION 5 – Setting up Automatic ON/OFF Options

1. From the Homepage you may tap the **ON** or **OFF** buttons and the lights will stay in the corresponding state until a new selection is made.
2. The most common timing setting is the "**Run from Sunset to Sunrise**" option. This is the recommended setting for most users. If you select this option you may skip the rest of the instructions below and jump to the next section.

   Note: If you select this setting after sunset, the lights won't turn on until the following evening at sunset.
3. To set up user defined run times, navigate to the User Defined Run Times Settings page:
   Homepage → Settings → User Defined Run Times Settings

SECTION 5 – Setting up Automatic ON/OFF Options (CONT.)

4. Set the desired on and off time frames. Then click the corresponding "**Save Time Frame**" buttons after selecting the on and off times:

Note: Selecting overlapping time frames may cause erratic on/off behavior (for example if Time Frame 1 ends at 8:00 PM and Time Frame 2 begins at 8:00 PM). Please ensure the time frames don't overlap.

6. Return to the Homepage. If the lights are currently on, tap the "**Off**" button and then select the "**User Defined Run Times**" setting. Your lights will now turn on during the selected times. Note: If you select this option in the middle of one of the user defined Time Frames the lights will not turn on until the beginning of the next Time Frame.

SECTION 6 – Finishing Up

1. Once sections 1-5 have been completed your lighting system is set up and ready to go. It's important that you now disconnect from the Wireless Access Point (the Land Master/Aqua Master or user named WiFi Network hosted by the transformer).

SECTION 6 – Finishing Up (CONT.)

2. Close and latch the panel if it's open. It's recommended to lock the panel to avoid unwanted tampering.

3. If your home or office is more than ~400 feet away from the device, you may simply leave without manually disconnecting.

4. If your home or office is within range of the transformer network, it is recommended to manually disconnect. For most devices there is a Network "Auto Join" option that should be disabled. Then toggle your WiFi off and back on or simply connect to your home WiFi network. If these options don't work, follow your device's instruction manual for disconnecting from a WiFi network.

SECTION 7 – Speed and Brightness

1. The speed of the pattern and brightness can be changed by clicking the "**Brightness**" button on the main menu.

2. Adjust the speed and brightness sliders to the desired level then tap the "**Update Settings**" button.

Notes: The settings will not update until the button is clicked. At low brightness settings, some people may perceive certain patterns "flickering". This is caused because LED's vary their brightness by turning on and off at high frequencies (called pulse width modulation or PWM) that are normally faster than the eye can perceive—at very low brightness settings the PWM frequency may become low enough that you can notice it. Nothing is wrong with your lights, simply turn up the brightness a little until it's not noticeable or change to a different pattern.

Notes:

Notes:

16024 COUNTY ROAD X,KIEL, WI USA 53042 800-693-3144 AQUAMASTERFOUNTAINS.COM

Aqua Master®
FOUNTAINS AND AERATORS
A DIVISION OF NIGRELLI INC.
BRINGING WATER TO LIFE

AQUAMASTER FOUNTAINS AND AERATORS COLLECTION

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RGBW LIGHTING SYSTEMS