



User's Guide

August, 2009

Pro Model



Table of contents

User's Guide

Topic	Page
Table of Contents & "First Things First"	2
Features	3
Warnings	4
Before you begin	5
Programming the DOWN position	5
Programming the UP position (extra air)	5
Programming the BOARD position	6
Using the keyfob	6
Using your Firstmate™	6
What are the Handles for?	7
Using the manual override	7
Programming tips	7
Lift dynamics	7
Troubleshooting	8
Firstmate Options	10
Warranty	11

First Things First

1. If your Firstmate™ PRO remote has been packaged with a lift purchase, your Firstmate™ may not be programmed. Please contact the factory if the "Lift Monitor" button is not flashing.
2. MOST IMPORTANT: If the "Lift Monitor" button IS NOT flashing, it is not detecting your lift. Be sure the last button pushed is the "UP" button. This should activate the "Lift Monitor".
3. Thank you for supporting and purchasing our product.

NO MORE HANDLES!

Firstmate™ Pro Model Display & Remote Key Fob



NOTE:

Handles on our box are for:

1) Get your boat off hoist if no electric on dock
(Turn BOTH HANDLES AT ONCE to "Down" - will hear air escaping tanks)

OR

2) If you need to bypass control box above



You are now the proud owner of the

Firstmate™

Thank you for purchasing our product
~ be sure to register ~ see blue insert ~

Warning

No user serviceable parts are located inside your **Firstmate™** unit. Installation and service should be performed by a qualified electrician only.

Only use a GFI (Ground Fault Interrupt) outlet for powering your **Firstmate™** controller or the Auxiliary module.

To avoid the risk of electric shock, always disconnect power to your dock before installing the Firstmate™ or any of its components. Use only cordless tools for installation. Failure to follow these instructions may result in injury or death.

Always tie your boat up to your dock, Aqualogic Marine Inc. assumes no liability for damages resulting from the user's failure to securely restrain their watercraft.

Verify that the boat's plugs have not been removed before operating the Firstmate.

Never use your remote control without being present at the lift. If your lift is not raising or lowering in a level position, stop the lift and correct the problem.

Stay clear of the lift while it is in operation.

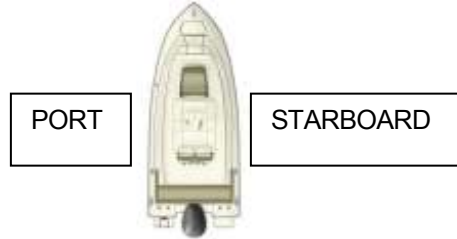
Caution must be used when storing your vessel in the board position as rough water conditions may lift the boat off the lift.

Power requirements: 20 Amp per blower motor.

User's Guide

1.0 Before you begin:

- 1.1 Read all warnings prior to programming or using your **Firstmate™** lift controller.
- 1.2 Read this entire manual before programming your unit.
- 1.3 Know which hoses control the Port, Starboard & Center tanks on your lift.



NOTE: Programming works best when Firstmate is in the “Manual” mode:

Manual Mode: Hold down “HOLD” & “AUTO/MANUAL” buttons at once until display blinks rapidly - control box “_ _” should blink **together**)

Auto Mode: Hold down “HOLD” & “AUTO/MANUAL” buttons at once until display blinks rapidly – Control box “- -” should blink **back & forth**)

2.0 Programming the BOARD position: **(Change to Manual Mode)**

- 2.1 Make sure the boat is on the lift. With the lift raised:
- 2.2 Hit the DOWN button on the control box to activate the handles to the down position. Lower the boat to the desired boarding position. Press the HOLD button & handles will move to hold position.
- 2.3 Press and hold (approximately 3 seconds) the **HOLD** and **BOARD** buttons at the same time until the display reads “**SA**”. The board position is now saved.**
** Your boarding position will fluctuate when the boat is full of gas vs. empty; and a boat full of passengers vs. one or two passengers.

3.0 Programming the DOWN position: **(In Manual Mode)**

- 3.1 Hit the DOWN button on the control box to activate the handles to the down position. The lift is in the down position when:
 - 1) Lift has completely expelled all air from tanks and water is spitting from exhaust fittings in back of Firstmate (this is normal – water is only going through our L-port valve); and
 - 2) When chains are completely extended on the back of the lift.
- 3.2 Press the HOLD button & handles will move to hold position.
- 3.3 Press and hold (approximately 3 seconds) the **HOLD** and **DOWN** buttons at the same time until the display reads “**SA**”. The down position is now saved.**
** If you get the “**SA**” and then “**ER**”, the Firstmate thinks you are trying to save the DOWN position above the BOARD position. In this case, send lift to Board. Program BOARD (see 2.0); then send to DOWN & program DOWN.

4.0 Programming the UP position (extra air number): **(Change to Manual Mode)**

- 4.1 There is no UP position to program. Once the sensor has come out of the water, the Firstmate is automatically programmed. HOWEVER, if you wish the lift to bubble the tanks, see 5.0 – Programming Extra Air.

5.0 Programming EXTRA AIR (to bubble tanks):

5.1 To program the EXTRA AIR, press and hold the **HOLD** and **Extra Air** switches until the display reads "EA" (Extra Air).

Press the **UP** or **DOWN** switch until display reads "4". Save the setting by pressing and holding the **Extra Air** switch, the display will read "SA". **If the tanks still do not bubble or if the lift is not shutting off soon enough, change Extra Air number again starting at 5.1.** This setting is now saved for the next time with the lift in the DOWN or BOARD position.

Note: **Extra Air Display** means: The amount of time it takes the lift to get to a desired "UP" position once the Firstmate raises the lift: For example: 1 (10 seconds of extra air), press the **UP** switch again and the display will read 2 (20 seconds of extra air). Each time the up button is pressed, the display will increase by one digit (increasing the extra air to blow by 10 seconds). Each time the **DOWN** switch is pressed, the display will decrease by one digit (decreases extra air time by 10 seconds). This can be adjusted at any time, at any position.

6.0 When done programming:

Put the system back in Auto Mode (see above).

7.0 Using the Keyfob:

7.1 Note that the Keyfob is not capable of programming any functions. All settings are programmed using the switches on the control module.

7.2 To prevent the accidental activation of a button on the keyfob, you must press and hold down the buttons for approximately one second for the **Firstmate™** to accept the command.

7.3 The keyfob buttons correspond to the following functions:

UP switch

BD = BOARD switch

DOWN switch

Both "**UP**" and "**DN**" = LIGHTS On/Off if optionally equipped.

8.0 Using your **Firstmate™**.

8.1 Read all warnings prior to operating your **FIRSTMATE™**.

8.2 Always secure your boat to your dock when not in use, Firstmate assumes no liability for resulting damage.

8.3 Anytime the lift is in operation; the strobe light will turn on.

8.4 While the **Firstmate™** is in operation you can stop the lift by pressing any other key on the keyfob or by pressing the **HOLD** switch on the controller

8.5 Pressing the **LIGHTS** switch will toggle the optional light module on/off.

8.6 While the **FIRSTMATE™** is trying to raise your lift to either the **BOARD** or **UP** position but does not detect movement of the lift within fifteen minutes, the blowers will turn off and the display will read "**JA**" (Jammed lift). This prevents the blowers from running for extended periods of time in the event of a catastrophic leak.

8.7 While the **FIRSTMATE™** is trying to lower the lift to the **BOARD** or **DOWN** position but does not detect movement of the lift within fifteen minutes, the valves will be closed and the display will read "**JA**" (Jammed lift).

8.8 If the **FIRSTMATE™** detects a leak condition, it will automatically raise the lift. The display will alternately read "**AL**" and "**01**". The number will increase each time air is added to your lift. To reset the Alarm indication, press the **HOLD** switch.

Note: The leak detection is operable only when the lift has been raised to the up position and the UP switch is the last switch used. The lift monitor LED will flash when the Firstmate™ controller is in the lift monitoring mode.

- 8.9 To switch from the auto mode of operation (level sensor active) to the manual mode, press and hold the HOLD and Auto/Manual keys for approximately five seconds. Release the switches when the display flashes three times rapidly. When in the Auto mode, the display will alternately flash a single dash “-“. When in the Manual mode, the display will flash two dashes “- -“ at the same time.
- 8.10 When in the auto mode, after the lift reaches the desired level, it will shut off automatically. When in the manual mode, the controller will stay active until a second switch is pressed ie if the lift is sent up or down, the valves will stay open until a second switch is pressed. When the controller is placed in the auto mode, the keyfob is also in the auto mode. When the controller is placed in the manual mode, the keyfob is also in the manual mode.

What are the handles for? The handles are to be used in the event of a power outage. You can manually move the handles to the “UP” position to manually turn on the unit or “DOWN” to get the boat off the lift.

9.0 Using the Manual Override:

- 9.1 The manual override may be used to raise or lower the lift. Turn to the desired function.
- Caution: Do not control the valves independent of one another in opposite functions (one valve up, other valves down) as you may roll the lift.**

Programming Tips:

- 1.0 When programming the "EA" (Extra Air), start with 40 seconds (#4 on display), and then check the lift height. Add extra air as required to achieve the desired lift height.
- 2.0 To change the **Firstmate™** from the auto mode to the manual mode (and vice versa), press and hold the **HOLD** and **Auto/Manual** switch until the display flashes rapidly three times (approximately 3 seconds). When you are in:
MANUAL MODE: both dashes on the display will blink at the **same time**.
AUTO DETECT MODE: the dashes will **alternately blink**.
- 3.0 After launching your boat, press the board button. The lift will be raised to the up position with minimum air in the tanks and take less time to lower the lift when you return.
- 4.0 When the lift is in the UP position and you want to add extra air, it can be done without entering the manual mode of operation by pressing and holding the **EXTRA AIR** switch for 5 seconds. The Firstmate™ controller will then add 10 seconds of extra air. To stop the unit, press the HOLD switch.

Lift Dynamics:

When your boat and lift combination is in a transition state (i.e. rapid movement between the UP and Board positions, or the BOARD and DOWN positions) it is not possible to stop the lift from continuing the upward/downward movement until it has reached a neutral buoyancy position.

The weight of your boat will affect the location of your UP and BOARD positions. A heavily laden boat with full gas tanks will stop at lower levels than the same boat with nearly empty tanks.

Troubleshooting

Firstmate not blowing itself back up:

1. Be sure sensor is activated. Last button **must** be “UP” button.
Red LED “Monitor Light” should be flashing.
2. Is sensor hose attached from the lift to Firstmate?
3. Is sensor tube (white tube on lift) out of water? May need to adjust up or down.
4. To test Lift Monitor: With “Lift Monitor” light flashing, turn handle(s) **at the same time** to DOWN. Once sensor tube gets down in water before boat is floating, Firstmate should activate auto blow up & shut itself off and read “AL01”. Press Hold button to clear alarm. Press UP button to turn “Lift Monitor” light back on.

Lift is down and nothing happens when the “UP” button is pushed:

CAUSE:

Firstmate was turned off by operator prior to completing cycle & thinks it is still in the “UP” position.

Hit BOARD or DOWN button on remote or control box & let the Firstmate cycle through & shut itself off. Then hit UP button (blower should turn on)

or

CAUSE:

There may be water in the sensor hose.

1. Turn the handles inside the blower box to “UP” (if two handles, TURN AT THE SAME TIME). Get the lift back in the UP position. Turn Handles to HOLD or press the HOLD button on control box.
2. Remove blower box cover, disconnect sensor tube from under control box. Blow air through sensor tubing to remove water. Send the lift back down. If the same thing happens, there is probably a leak in the sensor hosing and will need to be replaced.

Lift will not go down (no air coming from back of Firstmate):

1. Lift may have air lock.
2. Turn override handle (with red pointer) to “UP” until lift tanks bubble. Then turn back to “HOLD”
IF TWO HANDLES – BE SURE AND TURN AT THE SAME TIME.
This will blow the air from the hoses back into the lift tanks.
3. Hit “DOWN” on control box (inside lid), or hit “DOWN” on key fob, or turn handle(s) to “DOWN”. Should now hear air from back of Firstmate.

Blower will not shut off or seems to run way too long:

1. Re-adjust the “Extra Air” setting (see 3.2 above). Lift may have been programmed without boat on lift.
2. Check display on control box. Are both dashes blinking together (manual mode) or separately (auto mode)? See Programming tips – 2.0.

No range - remote will only work at very close range:

1. Replace battery. Even if light is still showing, range is affected when battery gets low.
2. Be sure to check both key fobs. On key fob: does a light come on? If not, key fob may have water damage or may be the battery. Remove screw from back of fob & replace with A23 battery (see parts description below).
3. Check if receiver is mounted to dock upright
4. Is there an antenna attached to the receiver? If so, push antenna & cable into receiver to make sure there is a tight connection.
5. Open key fob case to see if water has gotten on electronics (will show rust) If rust is showing, contact customer service to mail back to factory.

Firstmate™ comes on by itself & lift is up:

1. One of two things: Mother Nature or electrical current.
Mother Nature: Unplug cable (running up dock post) to the receiver & check to see if contacts are clean (no green from mildew or rust from moisture). Plug back in.
Electrical: Voltage to dock may be low or electric surge. If problem persists, call for service.

Parts Description:



Remote
Key Fob

Remote
Key Fob
A23 Battery



(move screw from back to replace)

FIRSTMATE OPTIONS:

Single Valve – upgradable to Dual, Three & Four-Valve

Standard remote control – upgradable to PRO remote

Key Fobs – Additional key fobs available

Antenna – Expanded Range

Strobe – External dock post strobe mounts (above or to end of dock)

Auxiliary Lighting – turn on decorative, slip or dock lights from your key fob

Solar

See web site or call for pricing

(this space intentionally blank)

Warranty Statement:

Thank you for purchasing your **Firstmate™** system. Your system is covered by a two-year Parts and Labor warranty** as follows:

The warranty period starts on the date of the sale. In the case of equipment installed by an authorized commercial contractor, the warranty begins on the date of site acceptance.

This warranty is provided for the sole benefit of the original consumer and is not transferable.

This warranty is applicable for product purchased and used in the fifty states of the USA and the District of Columbia only. It is not applicable in the possessions or territories of the USA or in any other country.

This is the only express warranty, which Aqualogic Marine makes in connection with the **Firstmate™** system, and its accessories. Any implied warranty applicable to this product including the warranty of merchantability is limited to the duration of the express warranty.

Firstmate, Inc. excludes and shall not be liable in any event for incidental or consequential damages. Some states do not allow limitations on how long an implied warranty may last. Therefore, these limitations and exclusions may not apply to you.

This warranty gives you specific legal rights. You may also have other rights, which vary, from state to state. In the event any of the provisions of this warranty are bound by statute or by applicable administrative or judicial entities to be unenforceable, all remaining provisions shall remain in full force.

Owner's Responsibilities:

1. Please read the Owner's Manual completely. The information provided in the manual covers operation, safety precautions and, where applicable, routine maintenance.
2. Should warranty service be required you will need to be able to produce reasonable proof of purchase. Please save your sales receipt or other similar document. In the case of contractor installed equipment, a photocopy of the site acceptance document would be considered acceptable.
3. Notify Aqualogic Marine, Inc. of any alleged defect promptly upon discovery.
4. Return the product to an authorized dealer, service center or to Firstmate, Inc. All shipments must be PREPAID. No Collect shipments will be accepted. Products repaired under warranty by Aqualogic Marine, Inc. or designated service center will be returned to the sender PREPAID.
5. Product returned for service (in or out of warranty) MUST have a Return Authorization that may be obtained from Firstmate, Inc..
6. At Firstmate Inc.'s sole discretion, warranted materials may be repaired or replaced.

Exclusions:

1. Product sold by retailers or contractors NOT authorized by Firstmate, Inc. and product whose trademark, name or identification numbers have been altered or removed are not covered by this warranty.
2. Product not specifically marketed for installation in areas exposed to the elements (sun, wind, rain, etc.) is not covered for defects that are attributable to this type of installation.
3. Product failures that are the result of abnormal strain, negligence, misuse, improper installation or operation, or failure to follow instructions contained in the owner's manual. Abuse, modification, or accidental damage is not covered by this warranty, nor is damage resulting from floods, lighting, earthquakes, hail, etc.
4. RFI/EMI (interference/noise) caused by improper grounding or the improper use of either certified or uncertified equipment is not covered by this warranty.
5. Product that has been, or has attempted to have been, repaired by anyone other than Firstmate, Inc. or a party authorized by Firstmate.

** The General Ground Fault Interrupter (GFCI) comes standard on our product for liability purposes. It is not an integral part of the Firstmate system. Therefore, **the GFCI only carries a 60-day warranty.**