



Firstmate® Installation Manual

PRO MODEL

March 2015

Warning

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

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 securely tie off your vessel to your dock, Firstmate, Inc. assumes no liability for damages resulting from the user's failure to securely restrain their vessel.

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.

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Installation Instructions

1.0 Before you begin:

- 1.1 Read all warnings prior to attempting installation.
- 1.0 Inspect unit to verify receipt of all components.
- 1.1 Tools required: cordless drill, an appropriate drill bit for the mounting hardware used, 5/16" nut driver, tubing cutter or hacksaw, and wrenches for mounting hardware used.
- 1.2 Turn off power to the dock.

2.0 Component checklist:

- 2.1 Blower Cover with lid
- 2.2 Frame assembly.
- 2.3 Receiver assembly w/ 14 foot receiver cable and antenna.
- 2.4 Keyfob (2ea) supplied
- 2.5 Pickup tube assembly with 20 foot hose, 5" hose clamp (1 ea).
- 2.6 Owner's manual (1 ea).

3.0 Installing the Blower Box:

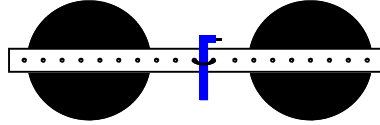
- 3.0 Locate the desired position of blower box. Check to see that the power cord will reach the nearest power outlet. **The placement should be located with the blower box cover placed over the frame.**
- 3.1 Remove the blower box cover. Mark the 4 mounting holes and drill thru the dock decking.
- 3.2 Mount the frame to the dock. Do not mount the blower box cover at this time.

4.0 Installing the Pickup Tube:

- 4.1 Raise the boat and lift to the desired up position. (Note: The boat must be on the lift to assure correct sensor positioning)
- 4.2 Locate a suitable mounting position on the lift cross member nearest the blower box. (**Note:** if you have a drive on style lift the sensor tube should be mounted at the rear of the lift) Consideration should be given to minimizing the potential for interference of the pickup hose with the lift. A good rule of thumb is to run the pickup hose along the air tank hoses.
- 4.3 Attach the pickup tube to the cross member with the bottom of the tube approximately 3" above the water. It may be necessary to cut the bottom section of the PVC pickup tube to allow for clearance between the top of the pickup tube and the hull of the boat. (**Note:** The pickup tube should be mounted vertically and perpendicular to the surface of the water) Firmly push the sensor hose onto the brass fitting on the sensor tube. Failure to do this will result in leaks and erratic sensor operation (Note: Putting a little liquid soap on the fitting eases the assembly process). Attach the pickup tube to the lift using the 5" hose clamp as seen in figure 1. Secure the sensor hose to the lift hoses. Cut off any excess hose once you have made sure it will reach the quick connect located on the side of the blower frame. Firmly press the barbed end of the grey fitting into the sensor hose. Then place the white clamp around the sensor hose and grey fitting and clamp it down firmly. As a precaution blow through the sensor line to be sure no water has accidentally gotten into the hose. (This step should be done when the lift is still up and the tube is out of the

water.) Lastly push the grey fitting and sensor hose into the quick disconnect on the blower frame.

Figure 1.



4.4 **Take extra care not to allow any water into the sensor hose as this will cause erratic operation.**

5.0 Installing the Receiver:

5.0 Locate the mounting position of the receiver within 12 feet (including rise) of the blower box, near the roof of the dock. This location should be in a sheltered area of the dock minimizing the potential exposure to rain.

5.1 Mount the receiver with the antenna pointing **down not up**. Wire tie around dock post.

5.2 Attach the Antenna.

5.3 Attach the receiver cable to the receiver. Run the cable to the blower box and install in the jack labeled "**REMOTE**" on the controller assembly.

6.0 Finishing the installation:

6.0 Remove the lift hoses as necessary from the old blower box and mount them to the steel nipples (tank side of the **Firstmate™** valves).

6.1 Install the blower box cover using the supplied 1/4" sheet metal screws and large diameter washers.

6.2 Plug the **Firstmate™** into the power outlet.

6.3 Restore power to the outlet.

Congratulations! You are now ready to program your **Firstmate™** controller. Please refer to your Owner's Manual for further instructions.