



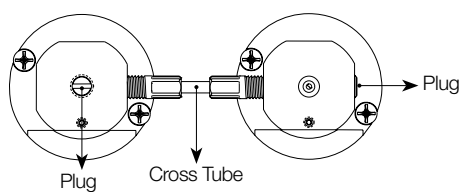
## microlab® 600 Series

For additional instructions, please refer to the sections in the Basic Manual referenced by each step.

1. Unpack the instrument and verify you have the proper components for your unit. **(Section 2.1)**
2. Select a clean, dry and level location to install the Microlab 600. **(Section 2.2)**
3. Place the syringe drive unit in the desired location. Place the controller on top of the pump and connect the pump and controller with the Ethernet Cable.
4. Plug the power supply (P/N 61092-01) into the back of the syringe drive unit. Then plug the power cord into the power supply and then into a wall outlet. The pump will automatically turn on. It will take approximately 30 seconds for the controller to boot up completely.
5. **Valve Installation:** The Microlab 600 comes with the valve(s) already installed. For a Single Syringe instrument, skip to step 6. For a Dual Syringe instrument, the valves come with the cross tube installed between the left and right valve. For a Diluter or Continuous Dispenser setup, leave the cross tube in place. For the Dual Syringe Dispenser setup, the cross tube can be removed by detaching the valves, unscrewing the cross tube and reinstalling the valves. **(Section 2.4.1)**

**Note:** All dual syringe pumps will be configured as a Diluter.

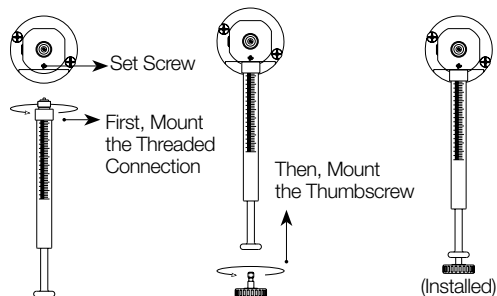
Pre-installed Valve Diagram



6. **Syringe Installation:** Press and hold the Prime button. After three seconds, the syringe drive will begin moving down to allow for installation of the syringe(s). Release the Prime button when the syringe(s) are approximately 50% from the bottom of stroke. Install the syringe(s). **(Section 2.4.2)**

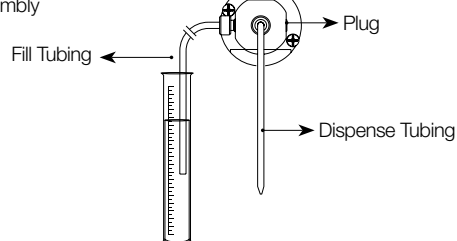
**Note:** On the front of the valve(s) there is a set screw; make sure this is flush with the valve face before installing the syringes. After syringe installation, tighten set screw until snug. Do not over-tighten.

Syringe Installation

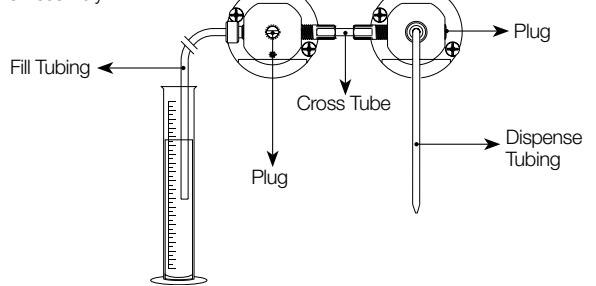


7. **Tubing Installation:** Install the fill and dispense tubing assemblies as described in **Section 2.4.3** and the drawings below. For the Dual Syringe Dispenser and the Continuous Dispenser setup, this will entail moving the valve plugs according to the diagrams.

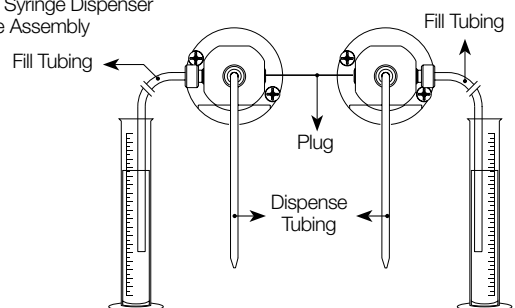
Single Syringe Dispenser Valve Assembly



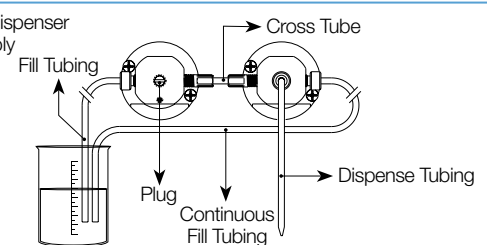
Dual Syringe Diluter Valve Assembly



Dual Syringe Dispenser Valve Assembly



Continuous Dispenser Valve Assembly

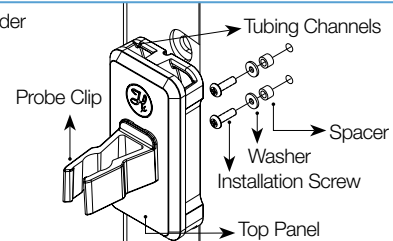


8. **Concorde CT or Dual Push Button Hand Probe Installation:** Thread the dispense tubing through the hand probe and clips that connect the trigger wire and dispense tubing. Then attach the trigger wire to the probe receptacle on the side of the pump.

**Note:** All other probes for the Microlab 600 will come with installation instructions.

9. **Accessory Holder Installation:** Choose the side of the pump where the Accessory Holder will be installed. Remove the plastic plug screws and install the accessory anchors as described in **Section 2.4.4** and the drawing below. Attach the Accessory Holder to the anchors and thread the tubing and trigger wire through the tubing channel.

Accessory Holder Installation



10. Fill a flask or beaker with liquid to be pumped through the system. Place the fill tubing in the reservoir and affix using a tubing clip.
11. **Software Configuration:** Using the touchscreen controller, navigate to the Configuration Screen, then select Hardware, then select Syringe and set the volume of the syringe(s). Go back one menu and select Valve to set the valve configuration. **(Section 4.3)**

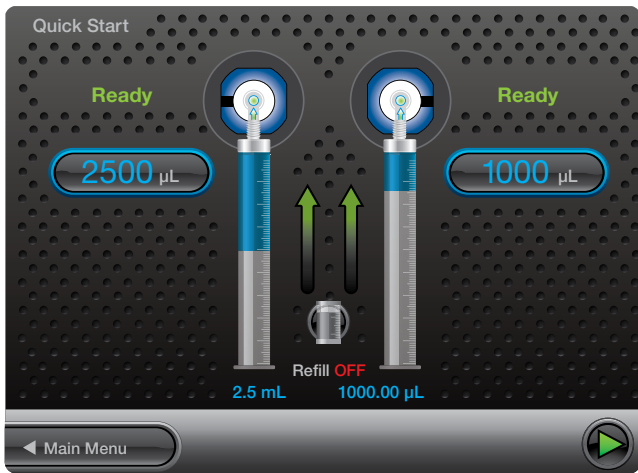


12. **Prime the Instrument:** Press the Prime button on the front of the syringe drive to fill the syringes with liquid from the reservoir and dispense it out the hand probe to waste. Continue to prime the syringes until all air is flushed from the tubing and syringes. Press the Prime button again to stop the priming. For a Diluter setup, make sure the dispense tubing from the hand probe is submerged in the diluent reservoir to prime the right syringe. **(Section 4.4)**

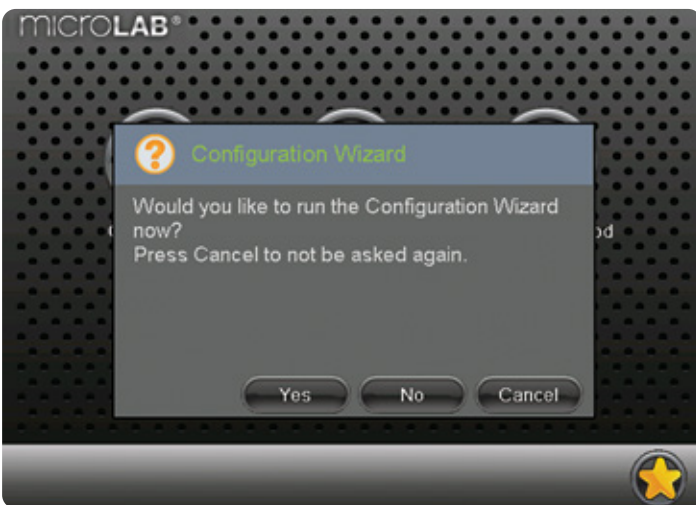


Prime Button

13. **Basic Operation:** The hardware is now setup and ready to perform the desired application. For the Basic Setup, press the Back button on the bottom left of the Configuration Screen and then select the Quick Start button to begin dispensing. Refer to **Section 4.5** for a detailed description on how the instrument will behave as a Single Syringe Dispenser, Dual Syringe Diluter, Dual Syringe Dispenser or Continuous Dispenser. To complete the Advanced setup proceed to the next step, otherwise skip to Step 15.



14. **Advanced Operation:** Turn the pump off and install the Hardware Key (SD card) and then power the instrument On. If desired, run the Configuration Wizard to configure the hardware, password protection and method logging settings. If these functions are not desired, hit No or Cancel to not be asked again. To install the optional printer, refer to the Quick Start Guide included with the printer. Once the pump is configured, refer to the Advanced Manual to determine which Wizard will accomplish the desired application.



15. Write the serial number of your instrument here:

ML600 \_\_\_\_\_  
 Letters    Numbers

16. Register your instrument at  
[www.ham-info.com/microlab-register](http://www.ham-info.com/microlab-register)

### Technical Support

If a problem persists even after attempts to correct it, contact Hamilton Company Technical Support or Service Department. To expedite service, please have the instrument part number and serial number ready and

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## WARRANTY REGISTRATION

### Free Extended Warranty

Register to extend the warranty to 24 months from the manufacture date.

Register at [www.ham-info.com/microlab-register](http://www.ham-info.com/microlab-register)

