

EasyStep

PRECISION ELECTRONIC DISPENSER



OPERATING INSTRUCTIONS



Continental Lab Products, Inc.
1-800-456-7741

1 CONNECTING THE POWER SUPPLY

Check that the Power Supply is correct for the voltage supplied for your area. Plug the Power Supply into an AC receptacle and connect the other end to the Controller. Connect the Dispenser Handle cord to the Controller. Refer to Figure 1.

When the unit is first powered up, the display on the Controller will flash



This indicates that the Dispenser Handle must now be calibrated as described in Section 2.

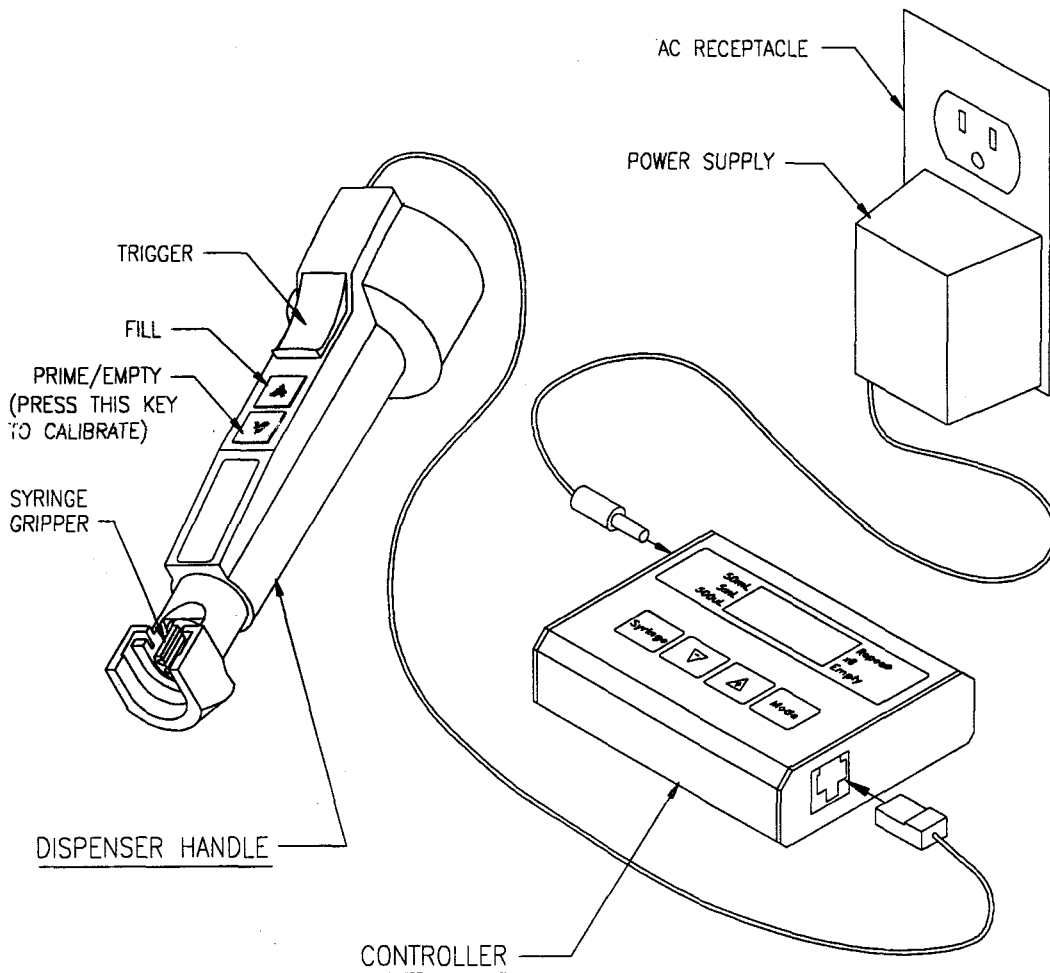


Figure 1

2 CALIBRATION OF THE DISPENSER HANDLE (CAL)

Every time the Controller is connected to the Power Supply, the display on the Controller will flash



and the Dispenser Handle MUST be calibrated. To calibrate the

Dispenser Handle, press the **V** PRIME/EMPTY key on the Dispenser Handle until the Syringe Gripper is fully extended (as shown in the Figure 2 below) and the motor stops running. The Dispenser Handle

is now internally calibrated and the display on the Controller will display



To recalibrate the Dispenser Handle, disconnect the Controller from the Power Supply, reconnect it and repeat this step. The Controller is now ready to be programmed for use as described in Section 3.

NOTE: The first time the unit is powered up the only key that is active is the **V** PRIME/EMPTY key on the Dispenser Handle. Pressing other keys on the Dispenser Handle or Controller will only cause the Controller to beep until the unit is calibrated.

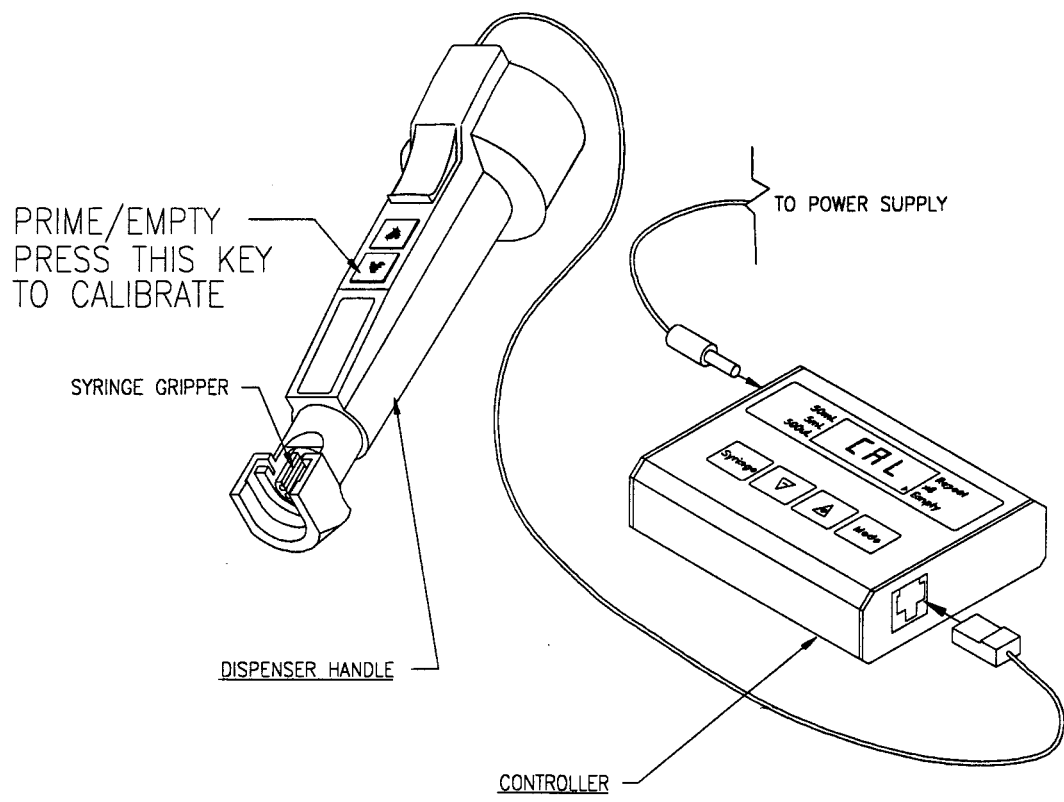


Figure 2

3 PROGRAMMING THE CONTROLLER

NOTE: When the unit is first powered up, the Dispenser Handle must be calibrated as detailed in Section 2.

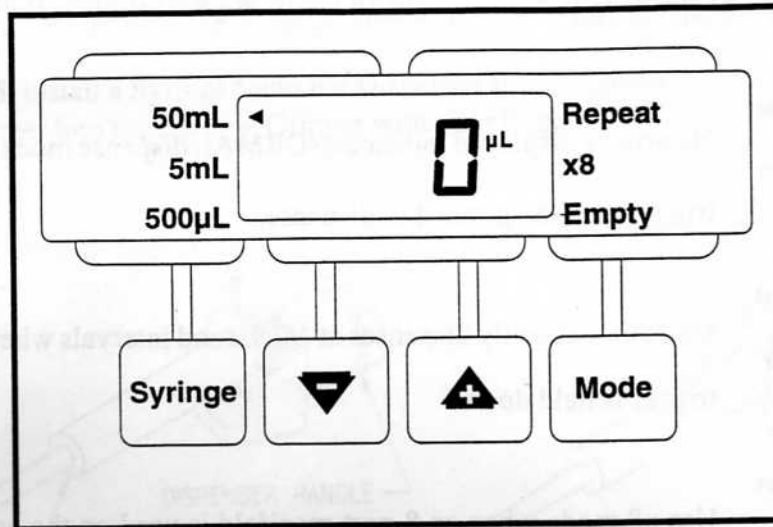


Figure 3

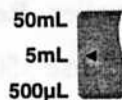
3.1 SELECT SYRINGE SIZE

NOTE: It is important to select the proper size of Syringe so that the correct volumes are dispensed.

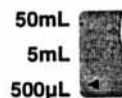
Press the **Syringe** key for proper Syringe selection. Pressing this key will toggle through each of the selections. The selected Syringe size is indicated by the display arrow.



Set to here for use with a 50mL Syringe.




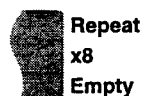
Set to here for use with a 5mL Syringe.



Set to here for use with a 500µL Syringe.

3.2 SELECT MODE OF OPERATION

Press the  key to select the desired mode of operation. Pressing this key will toggle through the selections listed below. The normal dispense mode is automatically selected on power up and special modes are indicated by the display arrows. Shown below are the different modes of operation.



No arrows displayed indicates NORMAL dispense mode. The Dispenser Handle trigger must be pressed to dispense.



Unit automatically dispenses at 1/2 second intervals when the Dispenser Handle trigger is held down.




Use x8 mode when an 8-port manifold is used on the end of the Syringe. The Controller displays the dispense volume per port (used with 50mL Syringe only).



Use with an 8-port manifold and to have the unit automatically dispense at 1/2 second intervals when the Dispenser Handle trigger is held down (used with 50mL Syringe only).



Use to empty the Syringe by holding down the  PRIME/EMPTY key on the Dispenser Handle.

3.3 SELECT DISPENSE VOLUME



Select the volume to be dispensed by pressing the  or  keys on the Controller. Referring to Figure 4, this program is set to dispense 350µL using a 50mL Syringe and will dispense 350µL every 1/2 second if the Dispenser Handle trigger is held down.



Figure 4