



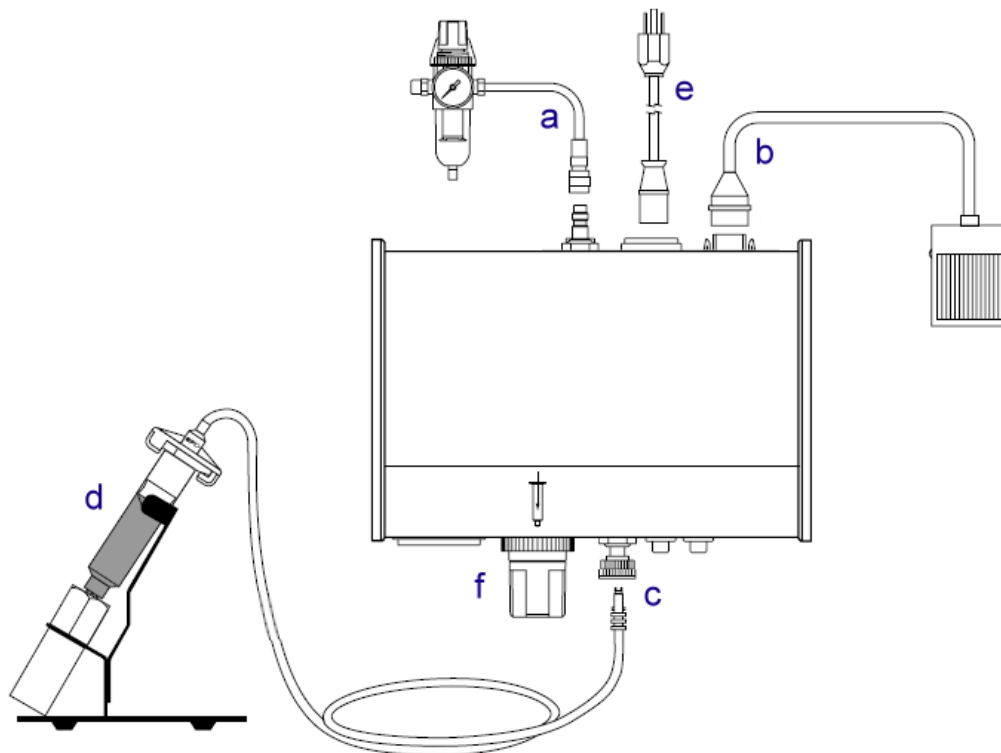
ES2070 Digital Quantification Dispenser Manual

1. Package contains the following items :

- ES2070 Digital Quantification Dispenser
- Power Cord
- Air Pressure Connector
- Barrel Adapter Set
- Startup Kit
- Foot Pedal or Finger Switch

2. Hardware Setup :

- Please connect the Air Pressure Connector on the back of the system to the nearby air compressor line.
- Connect the Foot Pedal on the back of the system or Finger Switch on the front of the system.
- Fill the dispensing barrel with adhesive up to 2/3 full and adapt with barrel adapter. Connect the adapter to the front of the system.
- If you are using Finger Switch, please stick the switch on the dispensing barrel.
- Connect the Power Cord on the back of the system and switch the power on. Please make sure all the display and light indicator are working properly. (110V-240V full voltage)
- Install the dispensing barrel with appropriate needle and adjust with appropriate air pressure and vacuum. (Please refer to Table 1)



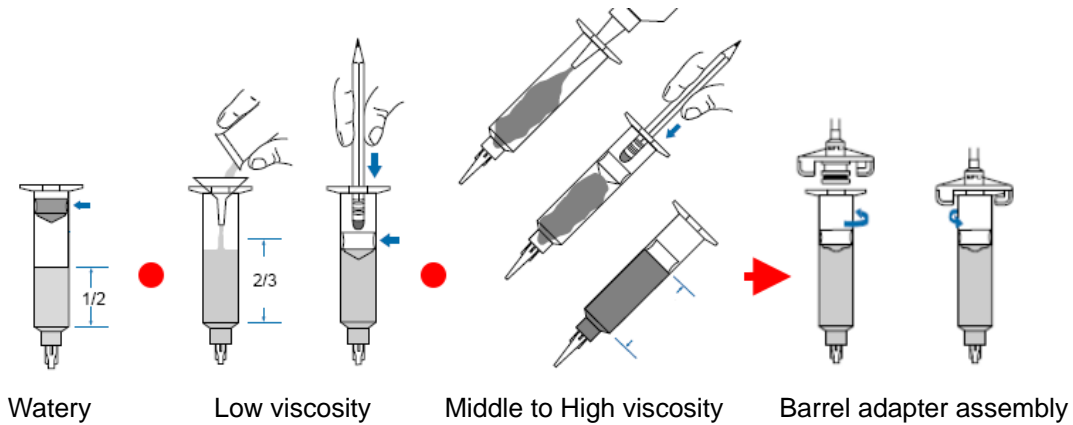
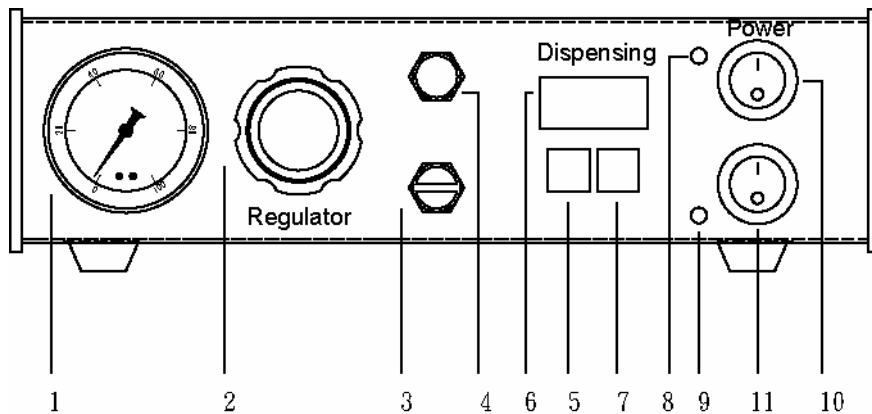


Table 1 : Air pressure setting with appropriate needle

Adhesive	Air Pressure Setting	Appropriate Needle
Watery	0.1-1.0 kg/cm ² (7-15 psi)	TD / TS / SS series metal needle
Low viscosity	1.5-2.0 kg/cm ² (22-30 psi)	TD / TS / SS series metal needle
Middle viscosity	2.0-3.0 kg/cm ² (30-45 psi)	All series needle
High viscosity	3.0-5.0 kg/cm ² (45-75 psi)	TT / TL series plastic needle

* If you normally work with low viscosity adhesive with high precise dispensing, you will need to use low pressure dispenser (0-30 psi)

3. Control Setting :



- 1..... Pressure Indicator Display the currently air pressure in the system
- 2..... Pressure Regulator Adjust the air pressure in the system, increase with clockwise and decrease with counter clockwise.
- 3..... Barrel Adapter Port Connect with barrel adapter, press down and rotate to adapt.
- 4..... Vacuum Knob Adjust the suck-back pressure in the barrel to prevent adhesive dripping, decrease with clockwise and increase with counter clockwise.
- 5..... Timer Setting (Up) Increase the dispensing time setting when using timer
- 6..... Timer Display Display the timer or dispensing time (0.01sec – 99.99sec)
- 7..... Timer Setting (Down) Decrease the dispensing time setting when using timer
- 8..... Dispensing Indicator The indicator will light up during dispensing.
- 9..... Finger Switch Port Connect with finger switch, insert to adapt.



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|--------------------|---|
| 10....Power Switch | System main power, switch on and the power light will light up. |
| 11....Timer Switch | Timer controller, switch on and the power light will light up. |

4. Operation :

- a. Please refer to table 1 for appropriate needle and pressure setting.
- b. If the adhesive is dripping from barrel, turn up the vacuum until it is not dripping.
- c. Turn off the timer switch; use the foot pedal to activate the dispensing until the adhesive fill up the needle and flow out the barrel smoothly. If the adhesive cannot flow out the barrel please adjust the pressure or replace the needle and repeat step a again.
- d. Place the barrel 45 degree to the process object and fit the needle on top of the dispensing point.
- e. – Manual dispensing : turn off the timer switch and step on the foot pedal to activate the dispensing, remove to stop the dispensing. Timer display will display the current dispensing time for your reference. It is suitable for long straight line and irregular dispensing route.
– Timer dispensing : turn on the timer switch and set the timer; step on the foot pedal once to activate one single timed dispensing, repeat the process by stepping the pedal again. It is suitable for repeat and uniform dispensing route.

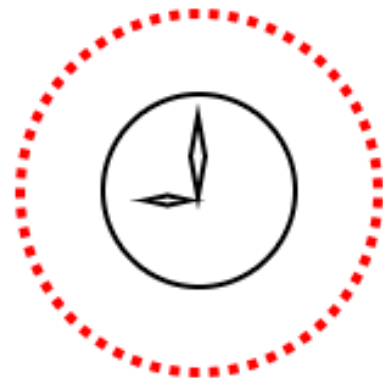
5. Three main reasons that control the dispensing volume :



Needle type and size



Air pressure volume



Dispensing time

6. Maintenance and Precaution :

The dispenser is designed and built to be relatively maintenance free. To assure trouble free operation, the following recommendations should be followed :

- a. Make certain air supply is clean and dry.
- b. Avoid turning barrels upside down or laying barrel so that material may run through air line to internal components.
- c. Avoid turning the vacuum to large and cause the generation of bubbles in the material or the material to run back into the system.
- d. If the piston inside the barrel is running up and down during the dispensing, it is mean the material has really high viscosity and you will need to replace the piston with red or rigid piston.



- e. Avoid connecting the unit to excessive moisture or solvent saturation.
- f. Avoid connecting air supply exceeding 7 kg/cm² (100 psi) and 2 kg/cm² (30 psi) for low pressure dispenser.
- g. Use only Amyl Alcohol to clean outside surface of the main housing.
- h. Please take off the barrel with needle after use and rinse through solvent. If you want to save the barrel for further use, please take off the needle and replace with safety tip (optional) or place the barrel on the barrel stand to prevent solidification.

7. Troubleshooting :

Problem	Possible Cause	Correction
Indicator or display does not light	<ul style="list-style-type: none"> • no power input • PCB main board damage 	<ul style="list-style-type: none"> • check power cord connection • turn on power • replace new PCB main board
Cannot dispense	<ul style="list-style-type: none"> • foot pedal not plugged in properly • defective foot pedal • foot pedal port broken or loosen • defective Solenoid Valve 	<ul style="list-style-type: none"> • check connection • foot pedal needs to be repaired or replaced • remove the cover and check for broken or loosen • replace the valve and make sure you use the appropriate piston and do not turn the vacuum too large
System will not pressurize	<ul style="list-style-type: none"> • Insufficient air pressure • air pressure connector not plugged in • regulator defective 	<ul style="list-style-type: none"> • increase air supply pressure • check connection • replace pressure regulator
System will not pull vacuum	<ul style="list-style-type: none"> • vacuum setting is too low • barrel piston not appropriate • adhesive too watery or full 	<ul style="list-style-type: none"> • increase vacuum volume • replace with appropriate piston • replace with different adhesive and fill only 3/4 full in the barrel
Inconsistent dispensing	<ul style="list-style-type: none"> • air bubbles in adhesive • dispensing needle not appropriate • dispensing needle clogged 	<ul style="list-style-type: none"> • decrease vacuum setting and de-bubble the adhesive before filling • replace with different type of needle • replace needle

8. Limited warranty :

Ever Sharp warrants this product to the original purchaser for a period of one year from date of purchase to be free from material and workmanship defects but not normal wear-and-tear, abuse and faulty installation. Defective product or subassembly and components under warranty will be repaired or replaced (at Ever Sharp option) free of charge. Customer with defective product under warranty must contact the nearest Ever Sharp office or distributor to secure a return authorization prior to shipping the product to the assigned Ever Sharp authorized service center. For nearest Ever Sharp office or distributor contact information, please visit www.eversharp.com.tw or contact our staff. Ever Sharp reserves the right to make engineering product changes without notice.