

SMD602A-CE & SMDE602A-CE AUTOMATIC LIQUID DISPENSERS

OPERATING MANUAL



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SMD602A-CE and SMDE602A-CE

The models SMD602A-CE and SMDE602A-CE incorporate a digital timer to control a special high duty rate reliable air solenoid. The SMD602A-CE and SMDE602A-CE provide timer programming from 0.01 (ten milliseconds) to 31 seconds.

Foot pedal initiation can be for either maintained or momentary operation. A manually activated vacuum pick-up system, with controls integrated into the front panel of the dispenser, can be used for "pick and place" of small assembly components. Both units are well suited for SMD production, repair, and laboratory application.

Adjustable barrel "Suck-Back" ensures control of the dripping associated with dispensing of low viscosity materials. Deposit sizes can be set from 0.001 milliliter to any volume amount, with repeatability variations less than 0.5%.

CE



Standard Accessories

Qty	Description	Re-order P/N	Re-order Qty/Pkg
1	Power cord - 110V unit	560033	1
1	Power cord - 220V unit	560033E-CE	1
1	Power cord - 220V unit	560033E-PLUG	1
1	Barrel stand	560751	1
1	Air hose	561851	1
1	Foot pedal & cord	560027CW	1
1	Vacuum pen	560046	1
1	30 cc barrel adapter	560004A	1
1	5 cc barrel adapter	560003A	1
3	30 cc barrel	560002C	10
3	5 cc barrel	560001A	10
3	30 cc barrel piston PE	560552	20
3	5 cc barrel piston PE	560550	40
2	Barrel tip cap	580142	10
2	14 gage tapered tip	560783K	25
2	16 gage tapered tip	560010K	25
2	18 gage tapered tip	560011K	25
2	20 gage tapered tip	560012K	25
2	22 gage tapered tip	560013K	25
2	24 gage tapered tip	561338K	25
2	20 gage blunt end tip	560088	25
2	21 gage blunt end tip	560089	25
2	22 gage blunt end tip	560090	25
2	23 gage blunt end tip	560014	25
2	25 gage blunt end tip	560015	25
2	30 gage blunt end tip	560016	25

Specifications

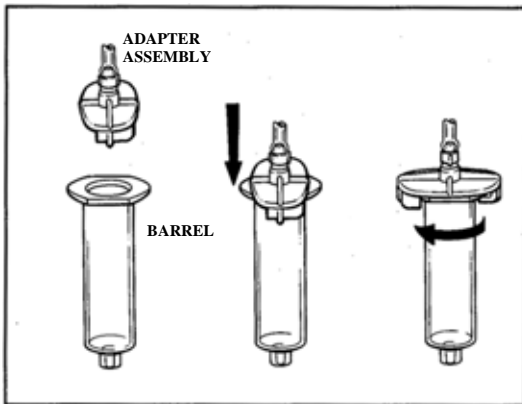
• Size:	10 1/2" x 8 1/4" x 2 5/8" (26.7 x 21 x 6.7cm)
• Weight:	4 lbs 6 oz (2 kg)
• Input Voltage:	110V – Model SMD602A-CE 220V – Model SMDE602A-CE
• Internal Voltage:	24V dc
• Dispense Time:	0.01 - 31 seconds
• Cycle Initiation:	Maintained or Momentary
• Air Input:	70-100psi (5-7 bar)
• Air Output:	1-100psi (0.1-7 bar)
• Standards:	European CE approved unit
• Barrel "Suck-Back" Feature	

Ordering Guide

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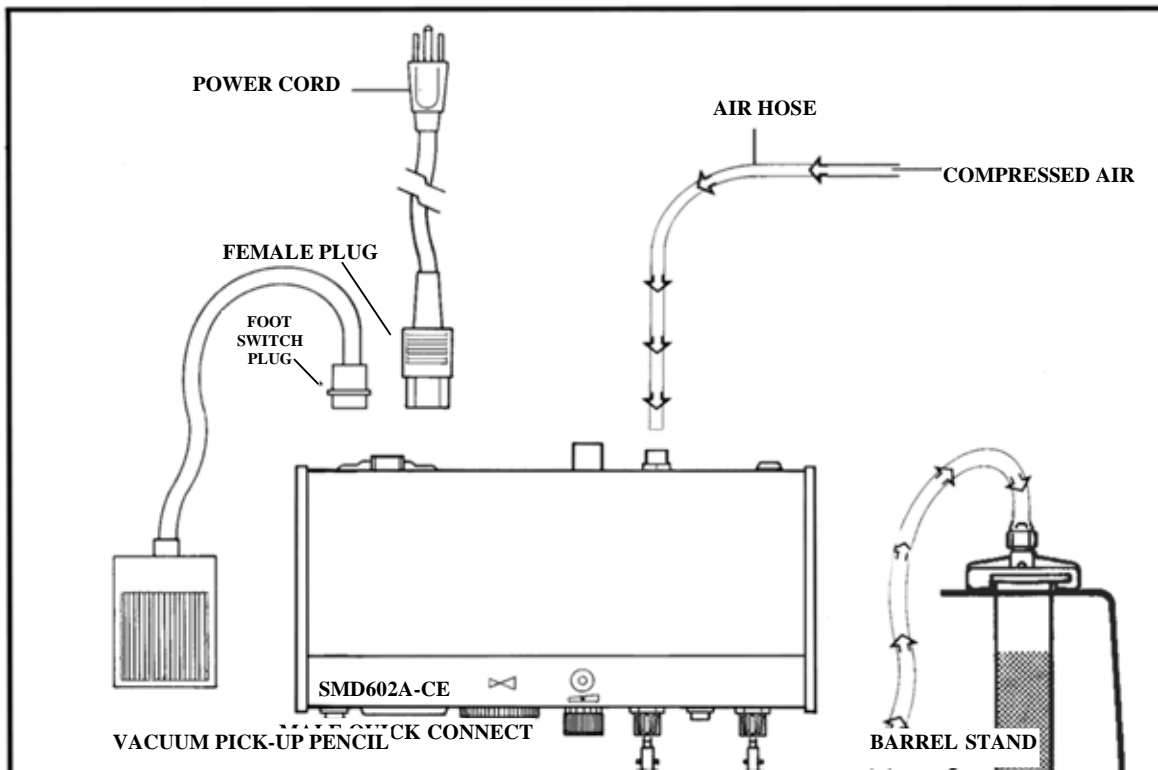
SETTING UP

Part No	Description
SMD602A-CE	Automatic Liquid Dispenser – 110V ac
SMDE602A-CE	Automatic Liquid Dispenser – 220V ac

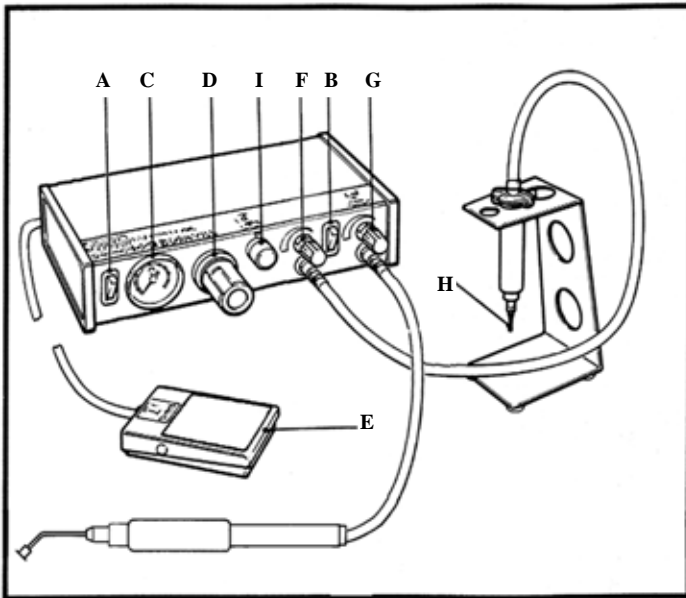


1. Connect air hose to filtered compressed air 70 - 100 psi (5-7 bar) and connect coupling to dispenser.
2. Insert Foot Switch Plug.
3. Insert and twist male quick connect into dispenser.
4. Insert power cord female plug into dispenser and insert the male plug into a grounded outlet - CHECK VOLTAGE LABEL on back of unit.
5. Fill barrel (with barrel tip cap on the barrel) with material to be dispensed and lock barrel to adapter assembly as shown.
6. Insert the connector of the vacuum pick-up pencil into dispenser.

AIR & ELECTRICAL SET UP DIAGRAM



UNDERSTANDING THE FUNCTIONS OF YOUR DISPENSER DISPLAY



- A** Turn unit on.
- B** Turn amber light on – this will provide continuous flow of material as long as the foot pedal is depressed.
- C** Turning the pressure adjust knob (**D**) allows for adjustments of air pressure.
- E** Push foot pedal to start dispensing.
- F** Suck-back control.
- G** Vacuum pick-up system control.

The amount of liquid dispensed depends on air pressure, size of dispense tip (**H**), viscosity of material and time of pulse (**I**).

To produce timed deposits, press (**B**) to turn off amber light.

HELPFUL HINTS FOR MAKING DEPOSITS

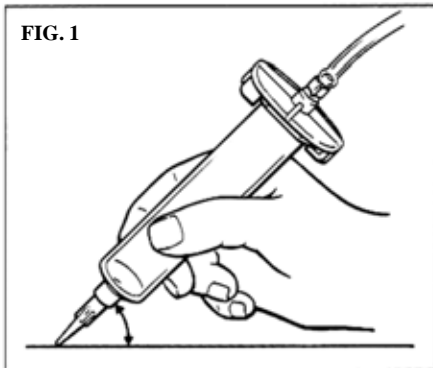


FIG. 1

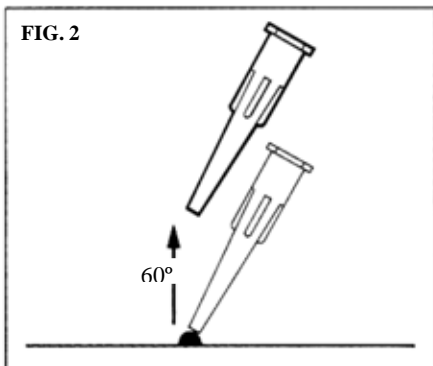


FIG. 2

1. Hold the barrel at approximately $60^\circ (\pm 20^\circ)$ angle (Fig. 1).
2. After making deposit remove tip as shown (Fig. 2).
3. Do not permit the liquid to flow back into the controller as shown in Fig. 3.
4. To increase pressure, turn knob (**D**) clockwise. To decrease pressure, first turn knob (**D**) counter clockwise past the value desired and then clockwise to the value desired.

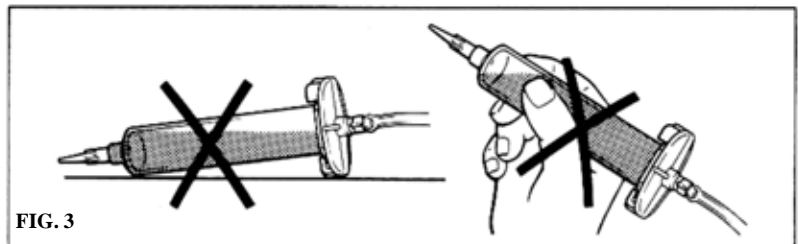
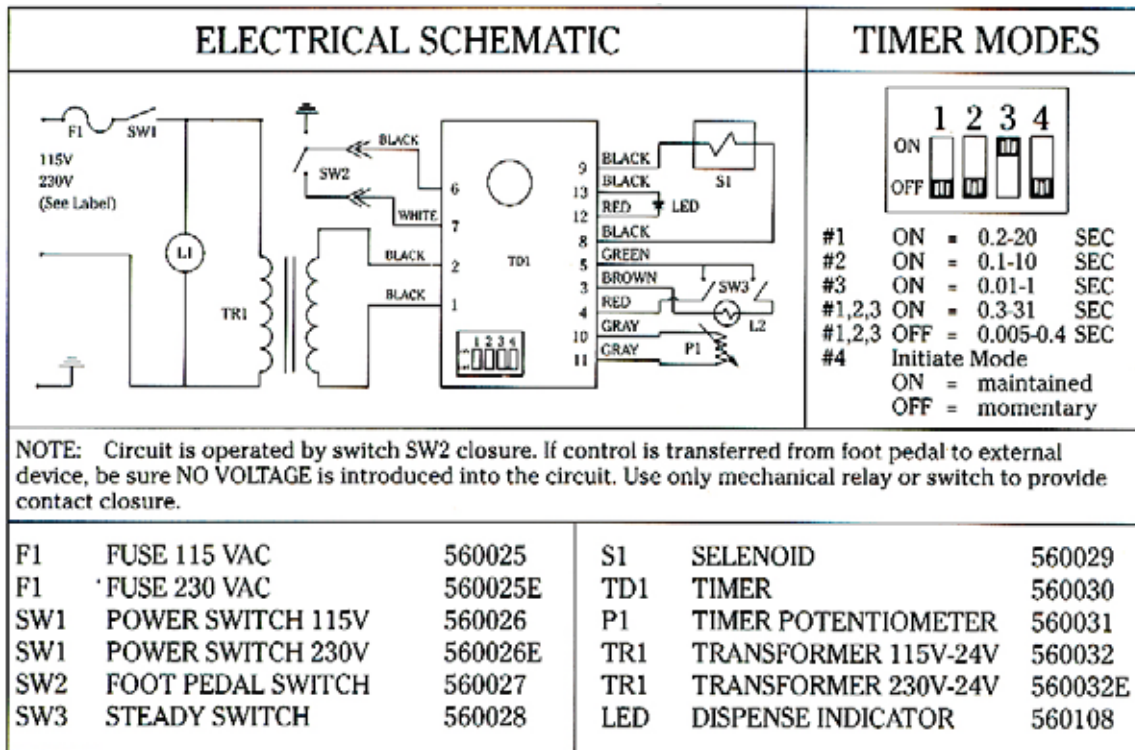


FIG. 3

5. Increase or decrease size of dots by either:
 - Increasing or decreasing time only (**I**)
 - Increasing or decreasing pressure only (**C**) (**D**)
 - Increasing or decreasing size of tip (**H**)
 - Increasing or decreasing any combination of time, pressure and size of tip.
6. For thin liquids, like water, you can prevent dripping by slowing turning the vacuum control (**F**) counter clockwise. **WARNING** – Too much vacuum will cause bubbles and suck liquid back into the controller thus creating permanent damage to the unit.
7. Choose one of the pick-up pads supplied. Increase vacuum pick-up control (**G**) by turning knob counter clockwise. To create vacuum at needle tip, cover small hole in pencil with finger. Remove finger to release vacuum. Very small components can be picked up by using the pick-up tip only. The tip I.D. must be small enough to ensure that the component is not sucked in.



LIMITED WARRANTY

Manufacturer warrants this product to the original purchaser for a period of two (2) years from the date of purchase to be free from defects in material and workmanship, but not against damages caused by misuse, negligence, accident, faulty installation, abrasion, corrosion or by not operating in accordance with factory recommendations and instructions. Manufacturer will repair or replace (at factory's option), free of charge, any component of the equipment thus found to be defective, upon return of the component to the factory during the warranty period of the equipment. This warranty is valid only when 5 micron filtered air is used. The manufacturer's written liability, as stated herein, cannot be altered or enlarged except by a written statement signed by an officer of the company. In no event shall manufacturer be liable for consequential or incidental damages. A return authorization is required from I&J FISNAR INC. prior to shipping a defective unit to the factory.

Manufacturer reserves the right to make engineering or product modifications without notice.



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