

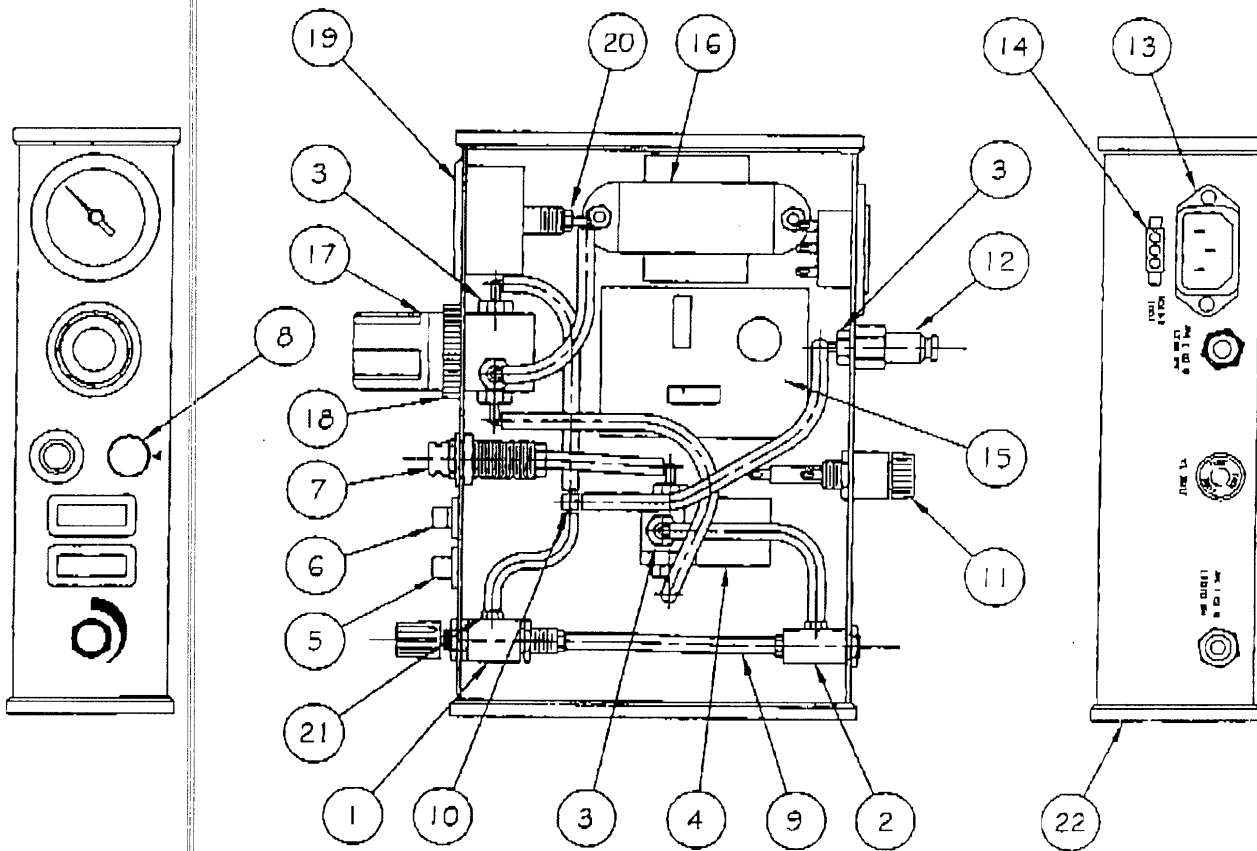
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**TECHNICAL
SERVICE
INFORMATION**

**PRODUCT
DESCRIPTION**

SD 340 AUTOMATIC DISPENSER



NO.	PART NUMBER	DESCRIPTION	QTY.	NO.	PART NUMBER	DESCRIPTION	QTY.
11	560689	FUSE HOLDER	1	22	560680	JB SIDE PANEL	2
10	561403	BARB TEE	1	21	561398N	NYLON FITTING	2
9	561400	BLUE URETHANE TUBING	2	20	561413N	BARBED ELBOW	1
8	560031A	POTENTIOMETER	1	19	561399	GAGE, 0-100 PSI	1
7	561427	FEMALE QUICK CONNECT	1	18	560685R	REGULATOR, MOUNTING RING	1
6	560028(E)	POWER SWITCH	1	17	560685A	REGULATOR	1
5	560028	STEADY SWITCH	1	16	560032(E)	TRANSFORMER	1
4	580152	SOLENOID	1	15	560030-CE	PC BOARD	1
3	561402N	NYLON ELBOW	7	14	560765	PLUG	1
2	561422	VACUUM TRANSDUCER	1	13	560691	AC RECEPTACLE	1
1	560686	NEEDLE VALVE	1	12	561431	AIR INLET FITTING	1

NOTE: ALL TUBING IS THE SAME TUBING P/N 561400. THIS TUBING MUST BE ORDERED BY LENGTH (FEET)

Semco®

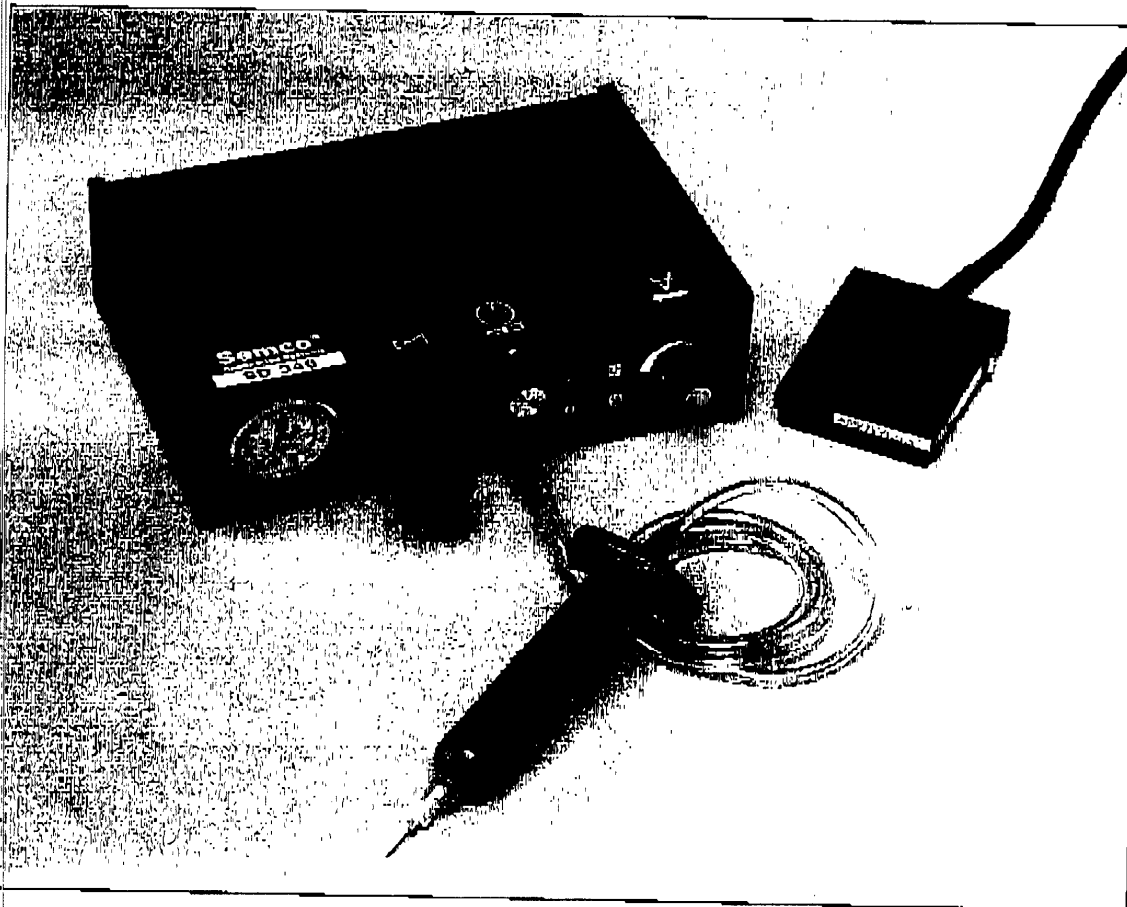
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SD 340

AUTOMATIC LIQUID DISPENSER

OPERATING MANUAL



The Semco® SD 340 precision automatic liquid dispensers, with their versatile design, make them perfectly suited for a wide variety of dispensing applications, from micro-dot deposits to large potting and filling.

- Digital Timer Control
- No dripping on very low viscosity liquids
- Timing intervals from 0.01 - 31 seconds

SPECIFICATIONS

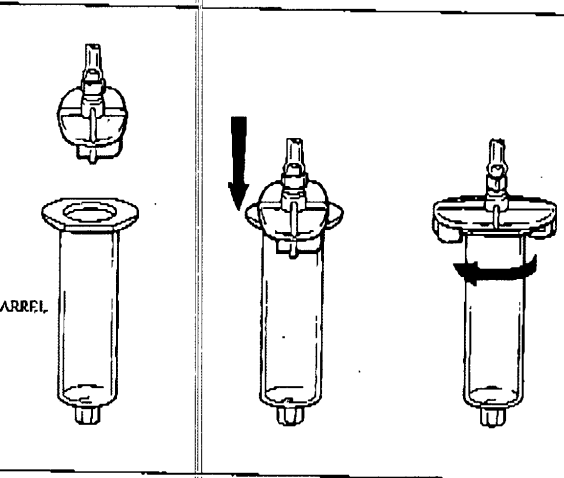
Digital Timer	Programmable
Cycle Initiation	0.01-1, 0.1-10, 0.2-20 and
Repeat Tolerance	0.3-30 seconds
Size	Maintained or Momentary
Internal & Foot	0.1%
Barrel Voltage	22cm x 21cm x 6.7cm
Cycle Speed	24vdc
Pressure Input	600+/Minute
Pressure Output	70-100psi(5-7 bar)
	1-100psi (0.1-7 bar)
Barrel "Suck Back" feature	

Dispensing Accessories Supplied With Unit

2	Power Cords 220v UK /European
1	Barrel Stand
1	Foot Pedal
1	Barrel Adaptor*
1	Selection of Semco Hybrid Syringe Barrels & Accessories (5,10,30 or 55cc, according to customers requirements)
1	Section of Dispensing Tips (Various gauges from both Tapered Tip & Blunt End Ranges)

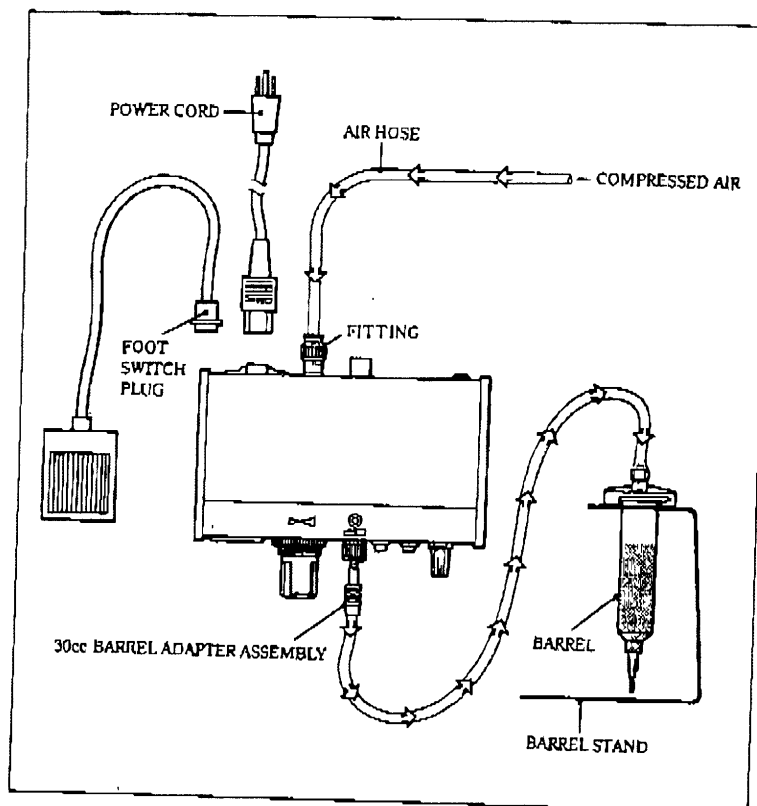
* Size of barrel adaptor will be 5,10 or 30/55cc as per customer's requirements

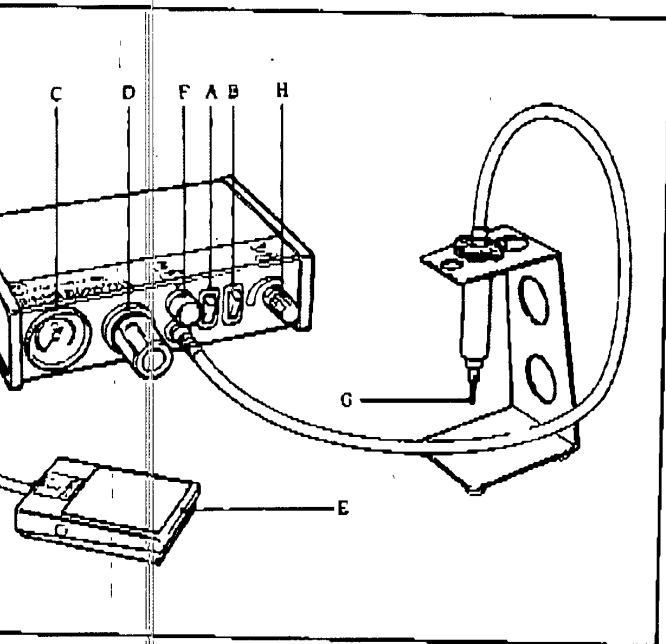
I. SETTING UP



1. Connect air hoses to filtered compressed air 70-100psi (5-7 bar) and connect fitting to dispenser.
2. Insert Foot Switch Plug.
3. Insert & Twist barrel adaptor on to syringe barrel.
4. Insert power cord female plug into dispenser and insert the male plug into the earthed outlet. CHECK VOLTAGE LABEL on back of unit.
5. Fill barrel (with Semco Spike Tip Cap on the barrel) with material to be dispensed and lock barrel to adaptor as shown.
6. **OR**, use Semco syringe filling adaptor, 310025, to fill directly from cartridges (this can be carried out with the piston fully inserted).

II. AIR & ELECTRICAL SET UP DIAGRAM

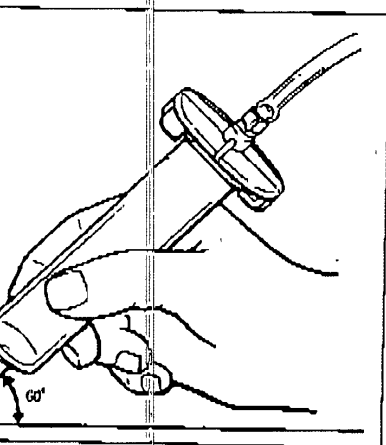




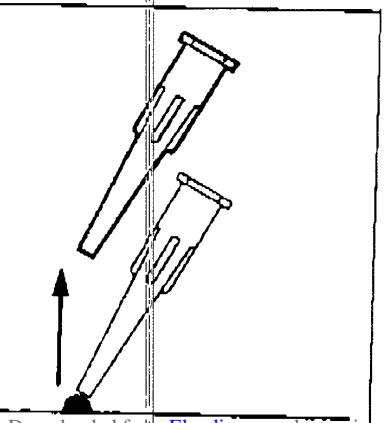
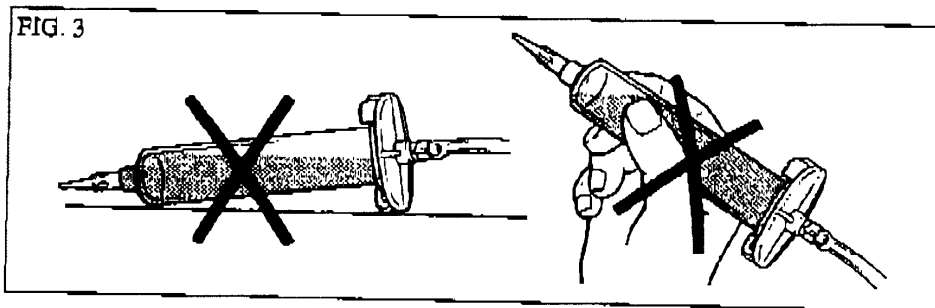
Understanding the Functions of your Dispenser Display

- A Turn unit on
 - B Turn amber light on; this will provide a continuous flow of material as long as the foot pedal is depressed.
 - C Turning the pressure adjust knob (D) allows for adjustments of output air pressure.
 - E Push foot pedal to start dispensing.
- The amount of liquid dispensed depends on air pressure, size of dispense tip (G), viscosity of material and time of pulse (F).
- To produce timed deposits, press (B) to turn amber light off.
- H Vacuum control to prevent dripping of low viscosity or "run-on" of medium viscosity materials.

HELPFUL HINTS FOR MAKING DEPOSITS

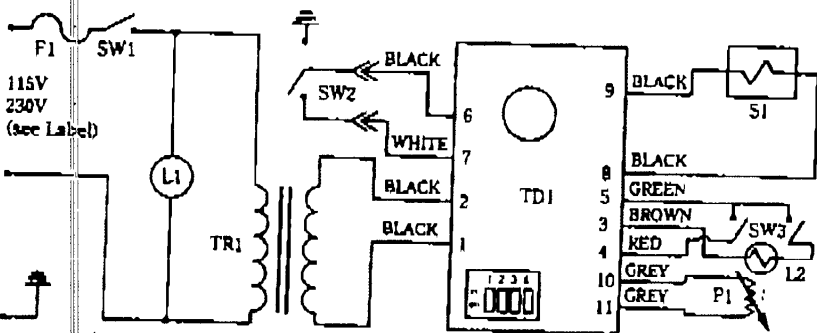


1. Hold the barrel at approximately 60° (+ or -20°) angle (Fig.1)
2. After making deposit remove tip as shown (Fig.2)
3. Do not permit the liquid to flow back into the controller as shown in Fig.3

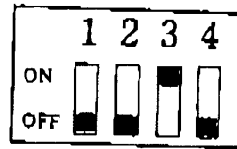


4. Increase or decrease the size of dots by either,
 - Increasing or decreasing time only (F)
 - OR
 - Increasing or decreasing pressure only (C) (D)
 - OR
 - Increasing or decreasing size of tip (G)
 - OR
 - Increasing or decreasing and combination of time, pressure and size of tip.

ELECTRICAL SCHEMATIC



TIMER MODES



#1	ON	=	0.2-20	SEC
#2	ON	=	0.1-10	SEC
#3	ON	=	0.01-1	SEC
#1,2,3	ON	=	0.3-31	SEC
#1,2,3	OFF	=	0.005-0.4	SEC
#4	Initiate Mode			
	ON	=	maintained	
	OFF	=	momentary	

NOTE: Circuit is operated by switch SW2 closure. If control is transferred from foot pedal to external device, be sure NO VOLTAGE is introduced into the circuit. Use only mechanical relay or switch to provide contact closure.

F1	FUSE 115 VAC	560025	S1	SOLENOID	580152
F1	FUSE 230 VAC	560025E	TD1	TIMER	560030
SW1	POWER SWITCH 115V	560026	P1	TIMER POTENTIOMETER	560031
SW2	POWER SWITCH 230V	560026E	TR1	TRANSFORMER 115V-24V	560032
SW2	FOOT PEDAL SWITCH	560027	TR1	TRANSFORMER 230V-24V	560032E
SW3	STEADY SWITCH	560028			

LIMITED WARRANTY

Manufacturer warrants this product to the original purchaser for a period of **One (1)** year from date of purchase to be free of defects in material and workmanship, but not against damages by mis-use, 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 opinion), free of charge, any component of the equipment thus found to be defective, on return to the factory during the warranty period. In no event shall any liability or obligation of Manufacturer arising from this warranty exceed the purchase price of equipment. This warranty is valid "only" when 5 micron filtered air is used. The manufacturer's liability stated herein, cannot be altered or enlarged except by a written statement signed by a company officer. In no event shall manufacturer be liable for consequential or incidental damages.