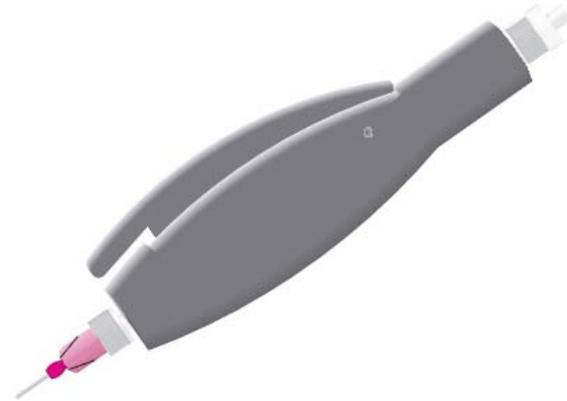


8 LIMITED WARRANTY

OK International warrants this product to the original purchaser for a period of one (1) 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 OK International's option) free of charge. Customer with defective product under warranty must contact the nearest OK International office or distributor to secure a return authorization prior to shipping the product to the assigned OK International authorized service center. For nearest OK International office or distributor contact information, please visit www.okinternational.com. OK International reserves the right to make engineering product changes without notice.

Send warranty returns to:
OK International, Inc.
12151 Monarch Street
Garden Grove, Ca 92841
(714) 799-9910
www.okinternational.com

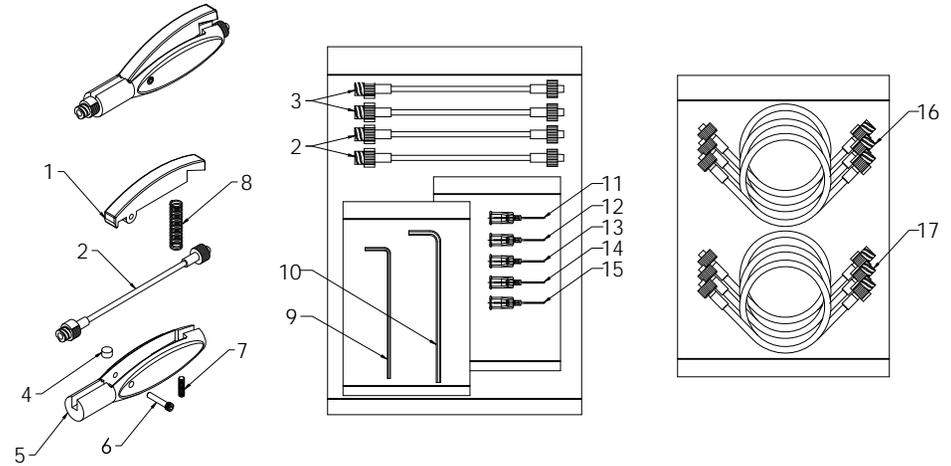
Techcon Systems TS1201 Dispensing Pen User Guide



CONTENTS

	Page Number
1. Introduction	3
2. Operating Instruction with Pressure Reservoir	3
3. Operating Instructions with Gravity Feed Reservoir	4
4. Typical Setup.....	4
5. Pinch Tube Replacement.....	5
6. Troubleshooting	6
7. Spare Parts and Accessories	7
8. Warranty	8

7 SPARE PARTS AND ACCESSORIES



19	TSD2108-6	FOAM SET (NOT SHOWN)	1
18	TSD2107-1	BOX, 11-3/4 x 8-3/4 x 3 (NOT SHOWN)	1
17	TSD126-324 BK	FLUID LINE ASSEMBLY, BLACK	3
16	TSD126-324	FLUID LINE ASSEMBLY	3
15	TS25-1/2 BLUE	TS NEEDLE, 400 SERIES, 25 GA. x 1/2", BLUE	1
14	TS22-1/2 BLACK	TS NEEDLE, 400 SERIES, 22 GA. x 1/2", BLACK	1
13	TS21-1/2 GR	TS NEEDLE, 400 SERIES, 21 GA. x 1/2", GREEN	1
12	TS20-1/2 YEL	TS NEEDLE, 400 SERIES, 20 GA. x 1/2", YELLOW	1
11	TS18-1/2 PINK	TS NEEDLE, 400 SERIES, 18 GA. x 1/2", PINK	1
10	TSD1597-5	HEX KEY, 3/32"	1
9	TSD1597-1	HEX KEY, 1/16"	1
8	TSD1150-7	SPRING, .250" I.D x .300" O.D x 1.25" LG.	1
7	TSD1123-15	SOCKET SETSCREW, #6-32 x 1/2" LG.	1
6	1201-000-003	PIN, MODIFIED	1
5	1201-000-001	BODY, DISPENSING GUN	1
4	1212-000-005	PINCH CUSHION	1
3	1201-000-004BK	PINCH TUBE ASSEMBLY, .098 BLACK	2
2	1201-000-004	PINCH TUBE ASSEMBLY, .098	3
1	1201-000-002	TRIGGER, HANDLE	1
ITEM	PART NUMBER	DESCRIPTION	QTY

6 TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	CORRECTION
Fluid leak at dispensing needle	<ul style="list-style-type: none"> Fluid pressure is too high Pinch cushion damaged 	<ul style="list-style-type: none"> Lower fluid pressure (60 psi or lower) Replace pinch cushion
Fluid leak from body	<ul style="list-style-type: none"> Pinch Tube ruptured 	<ul style="list-style-type: none"> Replace Pinch Tube
No fluid flow	<ul style="list-style-type: none"> No fluid pressure Stroke adjustment screw is in closed position Fluid dry inside Pinch tube Dispense tip clogged 	<ul style="list-style-type: none"> Increase fluid pressure (1-60 psi) Open stroke adjustment screw Replace new Pinch Tube Replace new Dispense tip
Fluid drool at dispense tip	<ul style="list-style-type: none"> Air entrapped in fluid tubing 	<ul style="list-style-type: none"> Purge Pen to remove air bubbles

1 INTRODUCTION

The TS1201 Pen is a basic pinch tube type valve. It has several unique features that provide very broad areas of application.

1. The replaceable pinch tube assembly has male and female luer lock fittings molded onto a polyethylene tube. The assembly is capable of shutting off fluid pressure up to 60 psi.
2. The ON/OFF lever actuator provides precision control, capable of making dots or continuous beads.
3. A stroke adjustment for the lever is built into the Pen body. This adjustment makes the dispensing of small dots possible with a relatively high degree of repeatable control.
4. A wide range of interchangeable fittings can be used to adapt supply hoses from either gravity or pressurized supply reservoirs. The standard supply hose provided with the Pen is a Polyethylene tube that can connect the Pen directly to most reservoir.

2 OPERATING INSTRUCTIONS WITH PRESSURE RESERVOIR

1. Connect the fluid tubing from the material reservoir to the female fitting on the Pen.
2. Hold the Pen in your hand as if you were writing. Depress the ON/OFF lever and open the supply reservoir to feed the Pen. As soon as all air has been purged from the supply hose and the pinch tube assembly, release the ON/OFF lever to shut off the fluid flow.
3. Attach appropriate dispense needle to the male luer lock fitting of the pen
4. To fine tune the flow control or dot size, use the included allen wrench to adjust the stroke of the ON/OFF lever. This adjustment is on the underside of the Pen body, opposite from the lever.
5. The shot size can be adjusted by the following parameters:
 - a. Pressure on the supply reservoir
 - b. Dispense tip size
 - c. Stroke adjustment on the ON/OFF lever
6. Normally the pinch tube assembly will provide 100,000 to 200,000 cycles before requiring replacement. When replacement is necessary, refer to detailed instructions in Section 3. "PINCH TUBE ASSEMBLY REPLACEMENT"

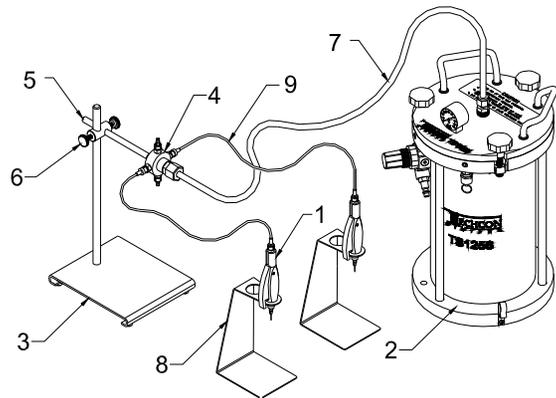
3 OPERATING INSTRUCTIONS WITH GRAVITY FEED RESERVOIR

The viscosity of the fluid to be dispensed by gravity, or a combination of gravity/siphon, must be low enough (1 to 800 cps).

A liquid tight seal must be made to the reservoir or supply source for gravity flow applications. In some cases, a hole can be drilled in the cap of the bottle containing the fluid. The hole should be small enough to provide a tight fit on the supply hose. Once end of the supply hose should be cut off at a beveled angle and forced through the drilled hole until it reaches the bottom of the bottle. If the bottle is to be turned upside down, a vent hole must be punctured in the bottom of the bottle.

If gravity/siphoning is to be used from a plastic bottle, a vent hole must be made in the cap of the bottle. To prime the Pen in the latter instance, close the vent hole with a plug of cover with fingertip, depress the pen's ON/OFF lever to open the tube and squeeze the bottle to force the liquid through the Pen. Once all air has been purged from the supply line, remove the plug from the vent hole and proceed with adjustments previously listed.

4 TYPICAL SETUP

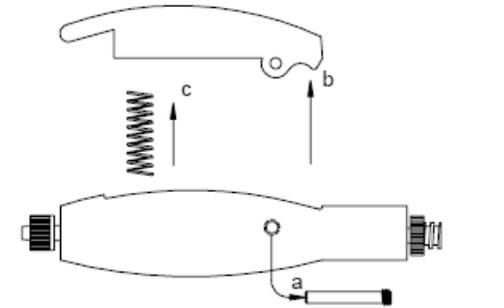


ITEM	PART NO.	DESCRIPTION	QTY
9	TSD126-336BK	FLUID LINE ASSEMBLY (INCLUDED IN TS918-46)	1
8	TSS107-3	SYRINGE STAND	2
7	TS1258-250	1/4" FLUID TUBING KIT (INCLUDED IN TS1258)	1
6	918-000-012	ROD CLAMP ASSEMBLY	1
5	1212-000-008	MOUNTING ROD (INCLUDED IN TS918-46)	1
4	TS918-46	4-WAY FLUID MANIFOLD	1
3	918-033-000	MASTER STAND	1
2	TS1258	PRESSURE POT ASSEMBLY, TS1258	1
1	TS1201	TS1201 DISPENSE PEN	2

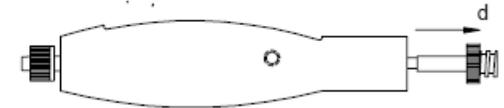
Figure 1.0

5 PINCH TUBE REPLACEMENT

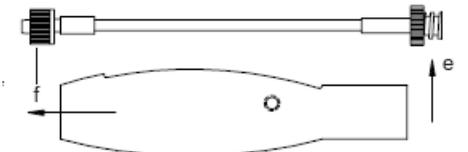
1. Unscrew pivot Pin (a), remove Trigger (b) and Spring (c)



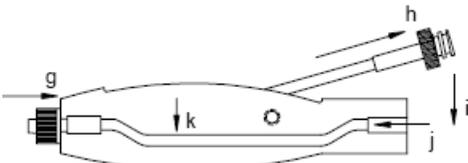
2. Pull one end of Pinch Tube out (d) and stretching it until fitting clears body



3. Now pull stretch end of Pinch Tube up (e). Then pull out the opposite end (f) to remove



4. To replace new Pinch tube, insert fitting of Pinch Tube in one end of the body until fitting clears (h)



5. Now pull Pinch Tube down (i) and insert the female fitting into the body (j). Finally, secure by pushing Pinch tube to the bottom inside of body (k) and reassemble

