

# **Matt Sweeney Special Effects, Inc.**

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## **Instructions for Old Style Automatic Capsule Launcher, 11/16"**

### **READ THIS NOW\*\*\*\*READ THIS NOW\*\*\*\*READ THIS NOW**

This launcher is for use by experienced special effects personnel only. This launcher is for motion picture and television production use only. Use at your own risk. Do not point this launcher at any person at any time. Being struck by a capsule fired from this launcher can cause serious injury or death. Filled plastic capsules are notoriously inaccurate; use extreme caution when operating this launcher near any person. Keep bystanders away when operating. Breaking capsules throw fragments; wear safety glasses. This launcher has a light trigger pull; leave safety on until ready to fire. Disconnect launcher from it's air source when working on launcher. Be careful, be safe, don't take any chances.

### **OPERATION OF Full Automatic CAPSULE LAUNCHER**

#### **SAFETY**

The safety is the chrome cylindrical slide valve located on the front side of the air supply inlet pipe. Slide safety to rear of launcher to disable the air dump valve; this safes the launcher (Transfer shuttle will still function). Slide safety forward to fire. Always leave safety on until ready to fire.

#### **Tank Regulator**

Connect regulator to compressed nitrogen or air tank. Set regulator between 50 and 125 P.S.I. Always open tank valve all the way. The quick disconnect on the end of the regulator hose is a two stage connection. To connect to the launcher, first slide the large knurled collar all the way back from the front of the connector. Then insert onto the male connector while sliding back the grooved collar on the front of the female connector. Finally slide the knurled collar forward to lock on the connector and engage the air supply. To remove, reverse the above procedure.

#### **Loading and magazine operation**

Loosen pinch knob and remove hose cap from the magazine. Fill with at least 30 capsules. Replace hose cap and tighten pinch knob. Fill the magazine even if you are only going to shoot a few capsules; this lessens the chance of capsules breaking in the magazine.

#### **Magazine feed regulator**

The magazine feed ram regulator is located on the top rear of the handle; a chrome milled knob protrudes from the rear of the brass body. It controls the pressure on the capsules in the magazine. Leave it screwed in all the way.

### Rate and force controls

These are a milled twist knob and a screw on the air logic valves on the air logic manifold. The knob on the valve toward the rear of the launcher controls rate of fire. Screw knob in to slow down rate of fire, and out to increase rate of fire. The screw on the valve towards the front of the launcher controls force, or time that the air dump valve stays open. **Note that if you screw in the rate knob all the way, the gun will not cycle.**

### Trigger

Pull trigger to rear to fire launcher. Use caution, trigger pull is light.

### Troubleshooting

1) When trigger is pulled, launcher starts blowing air down barrel continuously. This is usually caused by a stuck transfer shuttle bump valve. This is the small brass valve sandwiched between the top and bottom plates opposite the small shuttle ram. The field fix is to take the small air hose on the "in" side of that valve and put a few drops of light oil into the valve. This usually frees the valve. The best thing to do is replace the valve.

2) Launcher works fine, except no capsules shoot out the barrel. This is usually caused by a misaligned transfer shuttle. Remove top plate of launcher. Loosen front barrel and magazine clamp and remove barrel. Slide transfer shuttle against the transfer shuttle bump valve all the way, and using a flashlight, inspect the alignment of the shuttle with the barrel socket and breech. They should line up perfectly. To adjust, loosen set screw on top of transfer shuttle and screw the shuttle ram shaft in or out to adjust alignment. Tighten set screw when alignment is complete.

3) Launcher works sluggishly or not at all in extremely cold weather. Keep launcher in a warm place until ready to shoot.

4) Regular Glass marbles. Frequently a pain in the ass. Always out of round, causing jams. Remove button head or socket head screw on rear of inlet block and poke out jammed item. Always unload magazine and disconnect air supply when doing this. We sell GROUND Glass marbles that are accurate in size, will not jam, and shoot very accurately.

### Maintenance

Keep gun clean and dry. Do not lubricate transfer shuttle. Use blue Loctite to seal air fittings and on transfer shuttle ram mounting screws. Keep screws tight and transfer shuttle aligned.

Any questions, call us. We keep a stock of replacement parts.

Shop: (818)902-9354 FAX 902-1513 Home:(818)761-2380 Instructions revised 9/10/13