

Trouble Shooting Guide

Diagnoses:

Was it working?

No? New user never operated yet? Go to Section Two

Yes? What changed?

- 1) Different media? Empty pot, clean and try old media. See section 1c
- 2) Power supply? Section 1a
- 3) New operator? Section 2 reset everything
- 4) Is weather different? High humidity? Check pot for moisture etc. Section 1c
- 5) Nothing changed? Section 1a

Section One:

Was working and it just stopped. Section 1a

Was working and now it is intermittent flow on media. Section 1b

SECTION 1a) Hit trigger and nothing happens

Check Power

- 1) Power supply > is the power hooked up to a good 12 Volt power source, charged battery etc?
Check the power at the blast pot with an altimeter and make sure you have a solid 12 V.
- 2) If not, you will need to check for breaks in wire and make sure the battery clips are still connected properly
- 3) Check deadman switch. Disconnect the wire at the bottom of the pot. With compressor running and air turned on, use a small wire or paper clip to jump the connection on the pot side.

DID IT FIRE? Then you have a problem between the pot and the deadman. Reconnect the wire at the bottom of the pot. Unwrap and expose the connection where the deadman is connected to the extension wire at the end of the hose. With compressor running and power supply hooked up touch the black and white wire together. Does it fire? If yes, the pot is fine. The problem is between the bottom connection and the deadman.

Test the extension wire. Cut the wire to the switch and touch the wire only to see if it fires. If it fires then the problem is a faulty switch. You can use it by just touching wires together; however you need a new switch or a repair kit depending on your model. If it did not fire then the problem is in the wire between the switch and the bottom of the pot. Replace this wire with 16/2 wire and reconnect.

IT STILL DOES NOT FIRE?

- 1) When trigger is pulled do you hear clicking? Power is weak
- 2) Is top cylinder going up and down when you hit trigger but no air comes out? There is a problem with the large valve. There is an override button that can be depressed to make it fire.

SECTION 1b) Intermittent media flow

Check pressure settings:

Setting Pressures

The pot needs to have a greater differential pressure than the line; this forces the media out of the pot. Make sure your compressor is warmed up. What is the pressure reading on the compressor? 90+ is okay. If it is less than 90 check to see that it is in the "run" position or your compressor is no good. You need a minimum of 90 to test. Is your compressor a 185 CFM? Larger is fine. Smaller is questionable.

Disconnect the wire at the top right hand side of the pot near the 125 psi blow off. This disconnects your media.

WITH THE TRIGGER PULLED!!

Turn the air regulator on the left side of the pot up or down until it stops moving. What is the pressure? This is the maximum pressure available from the compressor. Example: 95 PSI Next: Let go of the trigger then hit the trigger again 2-3 times and hold it for 5-10 seconds to see if it changes.

WITH THE TRIGGER PULLED!!

Turn the regulator on the right hand side of the pot to equal the pressure that you just had on the left. Example: 95 psi - Trigger it and hold it several times to make sure it is consistent and that a slight turn on the regulator can change the pressure.

WITH THE TRIGGER PULLED!!

Turn the regulator on the left side of the pot to equal 5 psi less than what is on the right hand side.

Reconnect the media wire near the top of the pot.

Turn the media adjustment knob down until it is near the bottom.

With the trigger pulled turn up the media until it flows. Trigger it regularly while you are adjusting the media adjustment knob to ensure even flow. Set the "sweet spot" for flow.

- If the flow is still intermittent or you have to trigger it all the time to get it to flow, go to 1c. The bottom of the pot has contaminant that needs to be cleared or the tip needs to be adjusted.

SECTION 1c)

Testing the bottom end of the pot and media adjustment clearance

- Lay the pot on its side
- Undo the large coupling and with a pipe wrench unscrew the mixing chamber from the pot
- Slide off the mixing chamber
- Stand the pot up.
- Media will empty out > watch for the first cup full. Is there lumps and chunks? Is it wet or dry? Or is it consistent like a new bag?
- Then hook up air to pot and slowly turn on air to blow out bottom of pot
- With a flashlight look down inside to make sure it is clean. If it has crusted or stuff is stuck to the sides, wash it out with a pressure washer and let it dry overnight
- Lay pot back on its side for inspection and reassembly
- Inspect the tip. Does it look like it needs to be replaced or is it loose etc?
- Reinstall the mixing chamber by screwing it back on with the tungsten O ring portion towards the inside of the pot and the “empty” side of the chamber connecting to the union
- Set maximum flow position: Manually pull up the media adjustment knob.
- Stick your finger into the “empty” portion of the chamber and feel the bottom of the tip.
- Slowly unscrew the media adjustment knob until the bottom of the tip is even with the top of the chamber. It should feel flush, not protruding into the chamber, nor indented into the machine. Do not attempt this without first pulling up the media adjustment knob all the way. This is your maximum open position.
- Reassemble the union and put the pot back into the standing position
- Add some new media to test (approximately ¼ bag will do)

Media: Is the media dry, clump free, uniform particle size and no larger than mesh size #40? (about the size of table salt) What kind of media is it? Media with various size differences in it will not work (like copper slag) Make sure your media is consistent.

Section 2 – New owner, never used it

- With the blast pot close to the compressor hook up the air line supplied, wire lead, blast lead and deadman lead.
- Fire up the compressor and check the pressure. If it is below 95 then check the “warm up” and “run” button and make sure it is switched to the “run” position. The pressure needs to be 95+ to test it. Make sure you have 185 CFM or more.
- Hit the trigger – does air come out? If not go to Section 1a)
- Hit the trigger, air comes out – does the top cylinder go up and down? Yes > move on.
- If No > does cylinder go down when you hit the trigger and up when you let go? Reverse the wire battery connections or reverse the air lines going into the top cylinder. (push in the fitting and pull out the hose)
- Set up pressures – go to Section 1b)