



**Environmentally Safe Coatings Removal & Surface Restoration Systems
Soda Blast Equipment & Media Sales**

1108 N. 9th St. Walla Walla, WA. 99362
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Operating Instructions

**Buster Blaster 100 Economy Pack – BB100EPK
Including Compressed Air Cooling & Drying System**

WARNING:

**Always use and/or wear approved personal protective equipment (PPE)
including hearing, respiratory, vision and body protection.**

**Carefully un-pack and inspect all components of your new Soda Works soda blast equipment.
Report any damage to The Soda Works before operating your new equipment.**

Parts list:

Buster Blaster 100 soda blast pot – 100 lbs. soda blast media capacity
Single air cooler unit with 12 volt switched fan – 185 cfm capacity
Centrifugal moisture separator – 375 cfm capacity
2 - 10' connector hoses – 3/4" ID
50' blast hose – 3/4" ID
1 - dry blast nozzle – 3/16" or 1/4"
55' electric trigger line – extreme duty wire
Red Head rebuildable 12-volt electric trigger with "Ball & Chain" trigger lock
Aluminum soda pot fill funnel with screen

Assembly:

The main components are **always** connected in the following order:

Air compressor to air cooler

Air cooler to moisture separator – **Moisture separator MUST be within 10' of blast pot at all times!**

Moisture separator to soda blast pot

- 1 - Connect the 15' high temp hose from the air outlet of the compressor to the **inlet side** of the air cooler.
- 2 - Connect one of the 10' connector hoses from the **outlet side** of the air cooler to the **inlet side** of the moisture separator.
- 3 - Connect the remaining 10' connector hose from the **outlet side** of the moisture separator to the **inlet side** of the soda blast pot. **Moisture separator MUST be within 10' of blast pot at all times!**
- 4 - Connect the air cooler fans to a 12-volt power source with the supplied cable and clamps. This is usually at the compressor.
- 5 - Connect the soda blast pot to a 12-volt power source with the supplied cable. Polarity is black to negative and white to positive. A variety of power sources can be used for this including a 12-volt "jump pack" or your own custom cabling back to the compressor battery.

Use:

- 1 - Close drains on the air cooler and moisture separator.
- 2 - Close soda pot air fill valve and soda pot blow down valve.
- 3 - Connect 50' blast hose.
- 4 - Add desired amount of soda blast media to pot. **100% pure soda blast media only – nothing else!**
- 5 - Supply air from compressor to system – **maintain 100 psi minimum to 150 psi maximum.**
- 6 – Turn on cooling fan and open drain valves of air cooler and moisture separator enough to expel any moisture. These two drain valves must be sufficiently open during blast operations to expel any moisture in the system. Check for airflow from these two valves regularly during blasting operations.
- 7 - **Before opening air supply valve to soda blast pot**, operate the trigger to verify the rotor valve on at the bottom of the pot is operating properly. You can verify this by watching the outside stem of the actuator turning ¼ turn when you depress the trigger.
- 8 - Ensure blow down valve is closed and fill cap is on securely.
- 9 - Slowly open air supply valve to the blast pot.
- 10 - Operate trigger on blast hose. You should have blast pressure air and media.
- 11 - Adjust media flow with the black knob on top of the blast pot. Adjust in the following manor: **clockwise for less media, counter clockwise for more media.** First time use, the media flow adjustment knob may be completely closed. Therefore, you may have to back the knob off several revolutions to start media flow. Once media starts to flow, adjustments are usually only 1/8 to ¼ turn of the adjustment knob.

Achievable soda blast media flow rates are as follows:

- 1.25 hours per 50 lb. bag of Natrium Products #260 soda blast media when using #4 (1/4") nozzle.
- 1.5 hours per 50 lb. bag of Natrium Products #260 soda blast media when using #3 (3/16") nozzle.

Filling Pot During Soda Blast Operations:

To add soda blast media to the blast pot without shutting down air supply:

- 1 - Close air supply to blast pot.
- 2 - Slowly open blow down valve on side of blast pot to relieve air pressure.
- 3 - Remove fill cap and add soda blast media using fill funnel. **Soda blast media only – nothing else!**
- 4 - Check fill cap gasket for cleanliness and securely re-install fill cap.
- 5 - Close blown valve.
- 6 - Slowly open air supply to blast pot.
- 7 - Resume soda blast operations.

Shut Down:

- 1 - Close air supply to blast pot.
- 2 - Close or shutdown air supply from compressor. Follow air compressor shutdown procedures.
- 3 - Slowly open blow down valve on side of blast pot to relieve air pressure.
- 4 - Slowly open drains of air cooler and moisture separator. Leave completely open when not in use.

Technical Assistance:

Call your regional dealer/distributor or call the Soda Works at 1-800-267-8098