

## SET UP SHEET FOR THE CrystalBlast PIONEER

The standard nozzles size for the CrystalBlast Pioneer is 3/32" using 6 cfm @ 35 psi blasting pressure. This will produce the finest film detail using 150 mesh abrasive with the proper film thickness.

The larger the nozzle, worn out 3/32" is larger, the more abrasive is delivered and the more often you cycle the dust collector cleaning cycle.



Please read this sheet before operation of the machine. This single sheet will help you to understand proper setup for the machine and any special items making sure the machine operates properly. Use the machine manual for proper adjustment, operation and service of the machine.

After the machine packaging has been removed and the machine has been placed in its user location check the following items correcting any conditions that might prevent proper machine operation. Any unpainted shipping brackets used for lifting can be removed after the machine is at user location.

Make sure you have enough compressed air volume for the blasting pressure you will be using. The 3/32" nozzle inside the Pioneer consumes 6 cfm @ 35 psi blasting pressure. Media Blast advises doubling this volume of compressed air to allow for nozzle wear that demands more compressed air volume. Look for a compressor indicating 12 cfm delivery at 90-100 psi. Never use the displacement cfm number listed on the compressor. This number does not have any pressure inside the tank and you will quickly see the number at 90 to 100 psi is less. Unless you maintain 90-100 psi it is possible the machine air controls will not function properly.

1. Install an ambient dryer on the machine inlet if the machine will be use more than one hour per day. The Pioneer is a limited duty machine with a daily machine duty cycle rating of 5% or about 30 minutes per day. This is due to the vacuum type dust collector used with the Pioneer Sandcarver. Operation of the VAC-110 will allow the daily machine duty cycle to increase to a suggested 10% duty cycle or about one hour.
2. If the machine includes the padded armrest, remove the steel armrest and padded insert from the machine. Install the steel armrest using the supplied button head allen bolts, washers and nuts then push the padded rest into the frame.
3. Make sure to check any hard line air compressor supply lines for restrictions in the form of undersized plumbing fitting, Tee fittings or small undersized air controls that might be located on the compressor.
4. Insure the air is dry and moisture free. If the compressor is marginal in cfm volume, equal to or less than 12 cfm, the air will transfer to the cabinet hot and moisture will be created inside the cabinet, abrasive will then stop flowing.
5. A main air shut-off valve has been supplied before the air inlet into the machine; this permits machine maintenance and pot loading in the future.
6. All blasting cabinets require a negative pressure inside the cabinet. The Pioneer can use any standard Shop Vacuum or the optional large filter area found in the VAC-110 dust collector. At this time connect the hose of the vacuum dust collector being used to the outlet of the vacuum separator on the side of the cabinet.
7. Attach the foot pedal valve to the air inlet Tee and abrasive pinch valve as seen in the photo above. Push in on the fitting ring and insert the tubing into the fitting. Release the fitting ring and pull back on the tubing making sure it is installed.
8. The compressed air line of the Pioneer can be connected using a quick-disconnect air fitting capable of passing a total of 16 cfm of compressed air . Never use 1/4" yellow spiral hose, the friction inside the hose will slow the air flow down and limit compressed air volume.
9. Plug the vacuum dust collector cord into the machine ON-OFF service outlet cord. This allows the dust collector to turn on with the machine lights. If using a standard shop vacuum always turn the on-off switch of the shop vacuum to the on position.
10. Plug the machine service cord into any 20 amp. 120 volt single phase 60 cycle service outlet. It is important that no other electrical items are running off this service outlet. Vacuum blowers are 12 amp., 1500 watt, motors. With lights the outlet service being used can overload the circuit breaker if additional electrical items are on the same service outlet.... NEVER USE EXTENSION CORDS.