



INSTRUCTIONS FOR: SHOT BLASTING CABINET MODEL: **SB950**

Thank you for purchasing a Sealey product. Manufactured to a high standard this product will, if used according to these instructions and properly maintained, give you years of trouble free performance.

IMPORTANT: PLEASE READ THESE INSTRUCTIONS CAREFULLY. NOTE THE SAFE OPERATIONAL REQUIREMENTS, WARNINGS & CAUTIONS. USE THE PRODUCT CORRECTLY AND WITH CARE FOR THE PURPOSE FOR WHICH IT IS INTENDED. FAILURE TO DO SO MAY CAUSE DAMAGE AND/OR PERSONAL INJURY AND WILL INVALIDATE THE WARRANTY. PLEASE KEEP INSTRUCTIONS SAFE FOR FUTURE USE.

1. SAFETY INSTRUCTIONS

1.1. ELECTRICAL SAFETY

REGARDING DIRECT MAINS POWER USE WITH THE TRANSFORMER PLUG.

- WARNING! It is the user's responsibility to read, understand and comply with the following electrical instructions:
 - You must ensure the risk of electric shock is minimised by the installation of appropriate safety devices. An RCCB (Residual Current Circuit Breaker) should be incorporated in the main distribution board. We also recommend that an RCD (Residual Current Device) is used with all electrical products, particularly portable equipment which is plugged into an electrical supply not protected by an RCCB. You must also read and understand the following instructions concerning electrical safety.
- 1.1.1. The Electricity At Work Act 1989 requires all portable electrical appliances, if used on business premises, to be tested by a qualified electrician, using a Portable Appliance Tester (PAT), at least once a year.
- 1.1.2. The Health & Safety at Work Act 1974 makes owners of electrical appliances responsible for the safe condition of the appliance and the safety of the appliance operator. If in any doubt about electrical safety, contact a qualified electrician.
- 1.1.3. You must ensure that you:
 - Inspect the transformer plug, cable, and plug for wear and damage to ensure items are safe before connecting to the mains power supply. If worn or damaged DO NOT use and immediately replace, or contact a qualified electrician.
 - Check cables are always protected against short circuit and overload.
 - Important: Check that the voltage marked on the transformer plug is the same as the power supply to be used.
 - Uncoil the lead from the transformer before use.
 - DO NOT attempt to pull the transformer plug from the mains socket by the lead.
 - DO NOT use any other type of transformer with the cabinet.
 - DO NOT try to open or dis-assemble the transformer plug.
 - DO NOT use the transformer plug to power any other electrical item.
 - DO NOT get the transformer wet, or use in wet, damp conditions (for indoor use only).
- WARNING! NEVER** substitute a standard 13 amp 3 pin plug, or any other type of plug, for the transformer plug.

1.2. GENERAL SAFETY

- WARNING! Ensure Health & Safety, government and local authority regulations relating to shot blasting are adhered to when using this equipment. Familiarise yourself with the applications, limitations and potential hazards peculiar to the cabinet.
- WARNING! Disconnect the cabinet from the mains power and the air supply before attempting to change accessories or carry out any servicing or maintenance.
- Maintain the cabinet in good condition Replace or repair damaged parts. Use genuine parts only. Unauthorised parts may be dangerous and will invalidate the warranty.
- Locate cabinet in a suitable work area and keep area clean, tidy and free from unrelated materials. Ensure there is adequate lighting.
- Use only dry abrasives such as glass bead. We recommend Sealey item B5KG. Never use fluids or mix fluids with another media in the unit.
- WARNING! Always wear approved eye or face and ear protection when operating the cabinet.
- Keep the cabinet lid closed and secured when in use.
- WARNING! Ensure correct air pressure is maintained and not exceeded.
- Always keep the blast nozzle directed at the workpiece. Never use outside the cabinet and always use with the lid closed.
- Regularly check that the exhaust vent in the side of the cabinet is clear and not blocked and that there is space between it and any wall.
- Maintain correct balance and footing. Ensure the floor is clean and free from blasting media spillage. Wear non-slip shoes.
- Remove ill fitting clothing. Remove ties, watches, rings, and other loose jewellery and contain and/or tie back long hair.
- Keep children and non-essential persons away from the work area.
- DO NOT use the cabinet for a task it is not designed to perform.
- DO NOT operate the cabinet if any parts are damaged or missing as this may cause failure and/or personal injury.
- DO NOT operate the cabinet with the lid open.
- DO NOT stand on the cabinet.
- DO NOT get the cabinet wet or use in damp or wet locations or areas where there is condensation.
- DO NOT operate the cabinet when you are tired or under the influence of alcohol, drugs or intoxicating medication.
- DO NOT leave the cabinet operating unattended.
- When not in use disconnect from the electrical mains and the air supply.

2. DESCRIPTION & SPECIFICATION

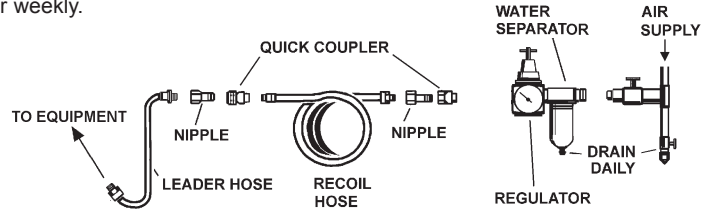
Composite cabinet with viewing panel and integral low voltage illumination. Hinged upper section provides easy access and includes exhaust vent and socket plus switch for the internal light. Gauntlets provide hand protection and cabinet is supplied with sand blasting gun, mesh support shelf and 12V lighting transformer plug. Suitable for glass beads, silica sand, aluminium oxide and other proprietary brands of blasting media.

Model: SB950	Length: 575mm
Capacity: 0.06m ³	Width: 445mm
Maximum Air-flow: 5cfm	Height: 445mm
Air Pressure: 80-100psi	Viewing Area: 350 x 245mm
Air Inlet Size: 1/4" BSP	Air Inlet Size: 1/4" BSP

3. AIR SUPPLY

3.1 Air supply (For recommended hook-up see diagram).

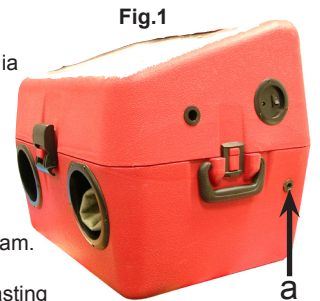
- 3.1.1 You will require an air pressure of 80psi, and an air volume of 5cfm to operate the unit efficiently.
- 3.1.2 **WARNING! Ensure air supply is clean, dry and does not exceed 100psi. Too high an air pressure and/or unclean or damp air will shorten the product life due to excessive wear and may be dangerous, causing possible damage and/or personal injury.**
- 3.1.3 Drain the air supply tank daily. Clean compressor air inlet filter weekly.
- 3.1.4 Line pressure should be increased to compensate for unusually long air hoses (over 8 metres). The minimum hose and fittings bore should be 10mm.
- 3.1.5 Keep hoses away from heat, oil and sharp edges. Check hoses for wear and poor connections.
- 3.1.6 Cabinet input connection is 1/4" BSP.



4. ASSEMBLY & OPERATION

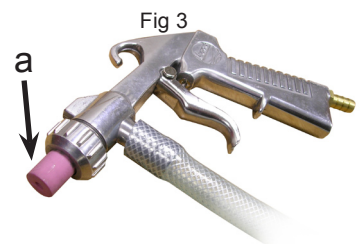
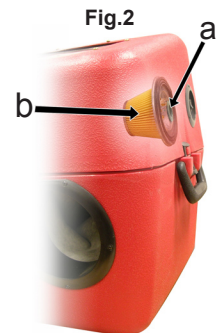
Important: This manual is intended as a guide to the safe operation and maintenance of SB950 and is not intended to replace the guidance of a trained supervisor. Only trained personnel should operate this equipment.

- 4.1 Unpack the product and check contents. Should there be any damaged or missing parts contact your supplier immediately.
- 4.2 **Air connection:**
Due to the variation in air supply systems, the air inlet coupling is not provided. Use a fitting that is compatible with your air supply system (contact your authorised Sealey dealer for a range of fittings).
- 4.3 **Preparing the unit for use:**
Ensure that the grit pickup assembly (See Part No.18) is lying horizontally on the floor of the cabinet. Place the mesh grill onto the ledge which is 6cm above the floor. Ensure that the pick up remains under the grill and the cut off corner of the grill is in the front right hand corner of the cabinet.
- 4.3.1 A number of self adhesive screens are provided to protect the underside of the clear window. Remove the self adhesive backing tape from the edges of one of the screens and stick the screen to the underside of the window.
- 4.4 **Operation:**
- 4.4.1 Attach a suitable air supply line to the inlet connection (Fig.1a).
- 4.4.2 Check the air supply line fittings and hose attachments at the rear of the gun. Ensure the blasting media supply hose is securely attached to the nipple on the underside of the gun.
- 4.4.3 Place **NO MORE THAN 6lb** of abrasive media into the centre of the cabinet. Larger amounts may create clouded cabinet conditions, therefore reducing visibility and may also give rise to poor blasting performance.
- 4.4.4 Place an item in the cabinet (we recommend you experiment first on a test item). Close the lid firmly and be sure that **ALL LATCHES ARE ENGAGED**. Failure to securely seal the lid may result in **SEVERE INJURY** as a result of exposure to the blast stream.
- 4.4.5 Switch on light and open air supply to no more than 80psi.
- 4.4.6 Place your hands in the gloves, firmly grasp the gun and depress the trigger. This should begin the blasting flow. Should no flow be visible, you may need to clear the tube by covering the gun nozzle momentarily.
- 4.4.7 Now you may begin finishing the part. Move the blast stream continuously over the part in an even and circular motion - carefully regulate the flow in order to avoid undesirable peening.



5. MAINTENANCE

- WARNING!** Disconnect the cabinet from the mains power and the air supply before attempting to change accessories or carry out any servicing or maintenance.
- 5.1 All blasting systems are prone to blocking and eventually wear, due to the very nature of the abrasive materials used. The system should be checked for blockages before each use and regularly inspected for wear.
- 5.2 **Blockage**
The gun nozzle may become blocked with moist blast media. Dislodge this using a suitably sized drill bit, held in your hand - **DO NOT ATTEMPT TO REMOVE A BLOCKAGE USING A POWER DRILL**.
- 5.3 Should the abrasive pick-up hose become blocked; remove all blasting media and work items from the cabinet, close the lid and fasten latches, reconnect the air supply and mains and operate the gun whilst covering the gun nozzle. This will force air through the tube which should clear the blockage.
- 5.4 The air outlet vent (Fig 2a) may become blocked and/or the filter (Fig 2b) clogged. Cleaning both the outlet and the filter should remedy the situation. Eventually, the filter will need to be replaced. Contact your authorised Sealey dealer for parts and information.
- 5.5 **Wear**
A common sign of wear is the presence of excessive dust within the cabinet. This can occur when:
- The blasting media is worn out i.e. it has lost its granular or spherical form and/or has a significant quantity of debris mixed in. In this case replace the blasting media (see your authorised Sealey dealer for a range of blasting media).
- The gun nozzle (Fig 3a) is worn. This is evident when the blast pattern becomes too wide and ineffective. Simply replace the nozzle (contact your authorised Sealey dealer).
- 5.6 **Window**
When visibility through the viewing window becomes impaired remove the degraded protective screen from the underside of the window and replace it with a new one.



SHOT BLASTING CABINET Model: SB950

93/68/EEC CE Marking Directive
2006/95/EC Low Voltage Directive
2004/108/EC EMC Directive
EN50081-1 Generic emission standard

Declaration of Conformity We, the sole importer into the UK, declare that the product listed here is in conformity with the following EEC standards and directives



Signed by Mark Sweetman

9th May 2005

The construction files for this product is held by the Manufacturer and may be inspected on request by contacting Jack Sealey Ltd

For Jack Sealey Ltd. Sole importer into the UK of Sealey Power Products