



# SHOT BLAST CABINET WITH GUN

640mm x 490mm x 490mm

MODEL NO: **SB951.V5**

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. KEEP THESE INSTRUCTIONS SAFE FOR FUTURE USE.



Refer to instructions



Wear eye protection



Wear protective clothing



Keep away from rain



Wear a mask

## 1. SAFETY


### 1.1. ELECTRICAL SAFETY

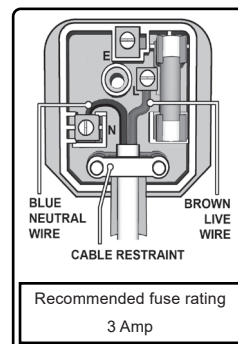
- ❑ **WARNING!** It is the user's responsibility to check the following:

Check all electrical equipment and appliances to ensure that they are safe before using. Inspect power supply leads, plugs and all electrical connections for wear and damage. Sealey recommend that an RCD (Residual Current Device) is used with all electrical products. You may obtain an RCD by contacting your local Sealey stockist.

If the product is used in the course of business duties, it must be maintained in a safe condition and routinely PAT (Portable Appliance Test) tested.

Electrical safety information, it is important that the following information is read and understood.

- 1.1.1. Ensure that the insulation on all cables and on the appliance is safe before connecting it to the power supply.
- 1.1.2. Regularly inspect power supply cables and plugs for wear or damage and check all connections to ensure that they are secure.
- 1.1.3. **Important:** Ensure that the voltage rating on the appliance suits the power supply to be used and that the plug is fitted with the correct fuse - see fuse rating in these instructions.
  - \* **DO NOT** pull or carry the appliance by the power cable.
  - \* **DO NOT** pull the plug from the socket by the cable. Remove the plug from the socket by maintaining a firm grip on the plug.
  - \* **DO NOT** use worn or damaged cables, plugs or connectors. Ensure that any faulty item is repaired or replaced immediately by a qualified electrician.
- 1.1.4. This product is fitted with a BS1363/A 13 Amp 3 pin plug.
  - If the cable or plug is damaged during use, switch the electricity supply and remove from use.
  - Replace a damaged plug with a BS1363/A 13 Amp 3 pin plug. If in doubt contact a qualified electrician.
  - Class II products are wired with live (brown) and neutral (blue) only are marked with the  Class II symbol:
    - A) Connect the BROWN live wire to the live terminal 'L'.
    - B) Connect the BLUE neutral wire to the neutral terminal 'N'.
    - C) After wiring, check that there are no bare wires and ensure that all wires have been correctly connected.



Ensure that the cable outer sheath extends inside the cable restraint and that the restraint is tight.

- \* **DO NOT** connect either wire to the earth terminal.  
Sealey recommend that repairs are carried out by a qualified electrician.

### 1.2. REGARDING DIRECT MAINS POWER USE WITH THE TRANSFORMER PLUG.

**You must** also read and understand the following instructions concerning electrical safety.

- 1.2.1. **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.
- 1.2.2. **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.**
- 1.2.3. **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 dismantle the transformer plug or charging base.
  - \* **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 .

### 1.3. GENERAL SAFETY

- ❑ **WARNING!** Ensure Health & Safety, government and local authority regulations relating to the use of 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 proprietary brands of glass beads, silicon carbide, aluminium oxide and silica sand. We recommend Sealey item B5KG. Never use fluids or mix fluids with another media in the unit.
- ☐ **WARNING!** Always wear coveralls, approved eye or face masks when operating the cabinet.
- ✓ Keep the unit lid closed and secured when in use.
- ☐ **WARNING!** Ensure correct air pressure is maintained and not exceeded. (Max 90psi).
- ✓ Always keep the blast nozzle directed at the workpiece. Never use outside the unit and always use with the lid closed.
- ✓ Regularly check that the exhaust vent and filter at the back of the cabinet is clear and not blocked and that there is space between it and any wall.
- ✓ Ensure the floor is clean and free from blasting media spillage; use a type "H" vacuum cleaner with a hepa filter.
- ✓ Keep children and non-essential persons away from the work area.
- ✓ When not in use disconnect from the electrical mains and the air supply.
- ✗ **DO NOT** clean up media spillage with compressed air.
- ✗ **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.

## 2. INTRODUCTION

Steel cabinet with replaceable viewing screen and internal illumination. Fitted with shot blasting gun and suitable for proprietary brands of glass beads, silicon carbide, aluminium oxide and silica sand only. Excellent for a wide variety of workshop and bodyshop cleaning applications. Requires a standard, dry workshop air supply. Supplied assembled and ready for use.

The unit is supplied with four ceramic nozzles being 4, 5, 6, & 7mm hole diameter respectively and replacement transparent protective backing sheets for the cabinet lid.

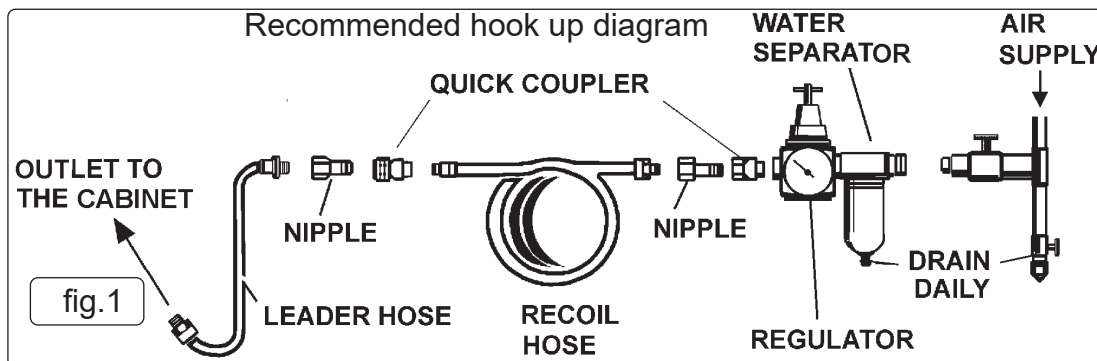
## 3. SPECIFICATION

Model No: ..... SB951  
 Air Consumption: ..... 12cfm  
 Door Size: ..... 530 x 440mm  
 Doors: ..... 1  
 Inlet Size: ..... 1/4" BSP  
 Nett Weight: ..... 15.99Kg  
 Operating Pressure: ..... 90psi  
 Overall Dimensions (W x D x H): ..... 640 x 490 x 490mm  
 Viewing Area: ..... 490 x 395mm



## 4. AIR SUPPLY

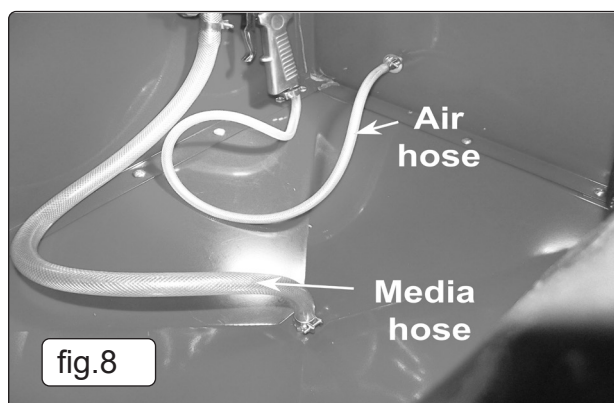
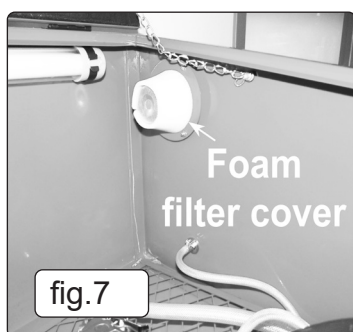
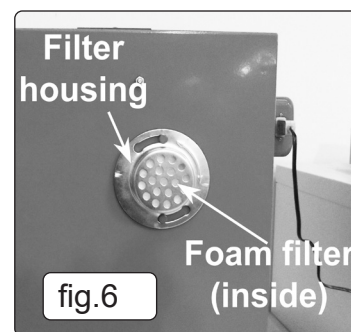
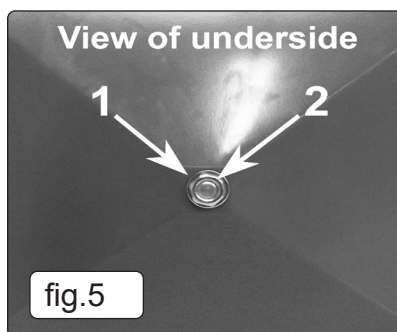
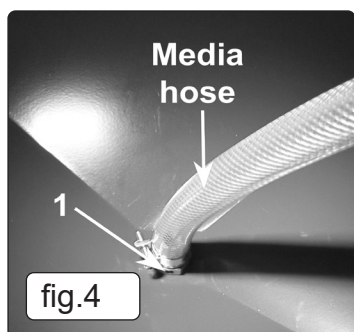
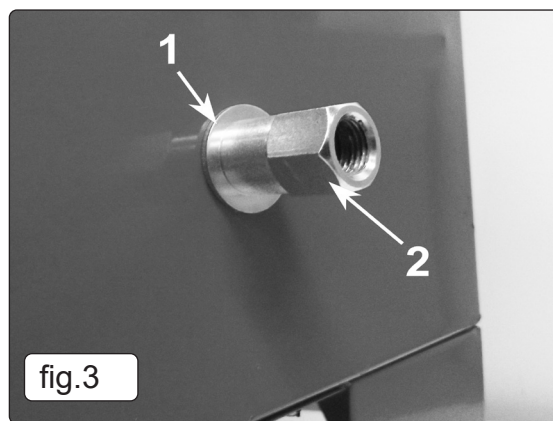
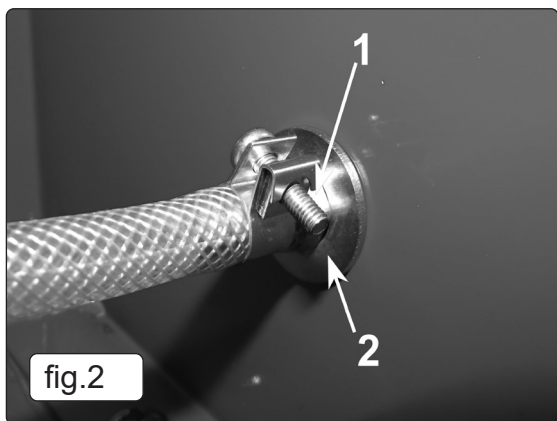
- 4.1. You will require an air pressure of 60-90psi, and an air volume of 12cfm to operate the unit efficiently.
- 4.2. **WARNING! Ensure air supply is clean, dry and does not exceed 90psi. Too high an air pressure and/or unclean or damp air will shorten the product life due to excessive wear and may be dangerous, causing possible damage and/or personal injury.**
- 4.3. Drain the air supply tank daily. Clean compressor air inlet filter weekly. For recommended hook-up see diagram below.
- 4.4. Line pressure should be increased to compensate for unusually long air hoses (over 8 metres). The *minimum* hose and fittings bore should be 10mm.
- 4.5. Keep hoses away from heat, oil and sharp edges. Check hoses for wear and poor connections.
- 4.6. Cabinet input connection is 1/4" BSP.



## 5. ASSEMBLY

- 5.1. Unpack the product and check contents. Should there be any damaged or missing parts contact your supplier immediately.  
**NOTE:** Use PTFE tape on all threaded joints.
- 5.1.1. **TO FIT AIR CONNECTION (fig.2, fig.3)**
- 5.1.1.1. Remove 1/4" BSP fitting (fig.3-2) and one steel washer (fig.3-1) from air hose connector (fig.2-1), leaving one steel washer (fig.2-2) on connector (fig.2-1).

- 5.1.1.2. Pass connector (fig.2-1) through hole from inside of cabinet with washer (fig.2-2) against tank side. Secure from outside using washer (fig.3-1) and fitting (fig.3-2).
- 5.1.2. TO FIT MEDIA HOSE (fig.4, fig.5)**
- 5.1.2.1. Remove nut (fig.5-2) from media delivery hose fitting (fig.4-1) Pass fitting (fig.4-1) through hole in base of cabinet and fix firmly in place from the underside of the cabinet using nut (fig.5-1) and washer (fig.5.2).
- 5.1.3. FILTER ASSEMBLIES (fig.6, fig.7)**
- 5.1.3.1. Place circular foam filter into housing and locate filter housing onto lugs on outside of rear panel (fig.6).
- 5.1.3.2. Place conical foam filter (fig.7) over internal conical rear filter housing (fig.7).
- 5.1.3.3. Fit wire mesh screen into cabinet with its angled corner to rear right hand side. This will allow hoses and spray gun through into working area of cabinet (fig.8)
- 5.1.4. GLOVE REPLACEMENT**
- 5.1.4.1. Gloves are held in place and sealed from media intrusion using jubilee style clips. To remove / replace the gloves, loosen clips using cross-head screw driver. Ensure a good seal is created when replacing gloves.



## 6. OPERATION

- ❑ **WARNING! Ensure you read, understand and apply safety instructions in Section 1 before using the unit.**  
**NOTE! We strongly recommend that a suitable dust extraction system is used with this unit.**  
**If dust extraction is not used, media may be forced out of the joints as pressure builds up.**
- 6.1. Check all fittings to ensure there are no air leaks.
- 6.2. Pour the abrasive media into the centre of the cabinet. **DO NOT** use more than 10lbs (4.5kg). Excessive amounts of abrasive will impair visibility, create poor blasting performance and could block the air exhaust.
- 6.3. The unit is supplied with four ceramic nozzles being 4, 5, 6, & 7mm hole diameter respectively. The choice of nozzle depends on the size of the blasting media. Coarse media should be used with the larger nozzles, fine media should be used with the smaller nozzles. To fit a new nozzle, unscrew the nozzle retaining ring, remove the existing nozzle and replace with the new one.
- 6.4. Plug the transformer into mains socket and transformer lead plug into light switch box and the unit is ready for use.
- 6.5. Place the workpiece in the cabinet and close and latch the lid securely.
- 6.6. Connect the air supply to the inlet on the side of the cabinet. Ensure the gun valve is in the "off" position before connecting the air supply.
- ❑ **WARNING! Failure to securely close the lid could result in damage and/or personal injury.**
- 6.7. Turn on light and air supply and insert hands into cabinet gloves. Grasp gun and depress the trigger to start the blasting process.
- 6.8. Move the blast media (which looks like steam) continuously over the workpiece in an even and circular motion. To avoid undesirable peening the flow should not be too hard or concentrated. The surface finish may vary from coarse to fine depending on the size of the abrasive media. On delicate workpieces, to avoid unnecessary peening or excessive abrasion, begin the blasting with a low airflow.

## 7. MAINTENANCE

- ❑ **WARNING! Ensure the cabinet is disconnected from the electrical mains and the air supply before attempting any maintenance.**
- 7.1. Ensure the blasting media does not become damp. Keep the air supply dry at all times. Dispose of any damp media.
- 7.2. When media has become excessively dusty it loses its granular or spherical appearance, or is significantly contaminated with debris from workpieces. This is usually noticed when media from the nozzle looks like a smoke cloud rather than steam.
- 7.3. Regularly check that the exhaust vents at the side and rear of the cabinet are clear.
- 7.4. Regularly check gun blast nozzle to ensure it does not become blocked with media. Immediately replace worn or damaged nozzle.
- 7.5. If abrasive pick-up hose becomes blocked, cover the gun tip to force air back through the hose. Ensure the lid is correctly closed.
- 7.6. Replace the transparent protective sheet on the underside of the Perspex window when visibility becomes reduced.

## 8. TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	REMEDY
Excessive dust cloud in the cabinet.	1. Exhaust vent or air flow is blocked. 2. Abrasive is worn. 3. Too much abrasive in the cabinet 4. Loose air line or fittings.	1. Clean vent and keep vent away from any wall. Connect to a suitable dust extraction system. 2. Replace. 3. Remove excess with a type "H" vacuum cleaner. 4. Check and tighten all air fittings.
Uneven blasting.	1. Too much abrasive in cabinet. 2. Moisture inside cabinet.	1. Remove excess with a type "H" vacuum cleaner. 2. Check air line for moisture.
Inadequate speed or efficiency of blast.	1. Abrasive is worn. 2. Pressure is too low.	1. Replace. 2. Check that there are no supply blockages or leaks. Increase pressure. Max:90psi
Static electricity.	1. Dry weather conditions.	1. Leave the workpiece to stand for a while.
Blast pattern too wide or ineffective.	1. Nozzle blocked or worn.	1. Unblock or replace nozzle



### ENVIRONMENT PROTECTION

Recycle unwanted materials instead of disposing of them as waste. All tools, accessories and packaging should be sorted, taken to a recycling centre and disposed of in a manner which is compatible with the environment. When the product becomes completely unserviceable and requires disposal, drain any fluids (if applicable) into approved containers and dispose of the product and fluids according to local regulations.



### WEEE REGULATIONS

Dispose of this product at the end of its working life in compliance with the EU Directive on Waste Electrical and Electronic Equipment (WEEE). When the product is no longer required, it must be disposed of in an environmentally protective way. Contact your local solid waste authority for recycling information.

**Note:** It is our policy to continually improve products and as such we reserve the right to alter data, specifications and component parts without prior notice.

**Important:** No Liability is accepted for incorrect use of this product.

**Warranty:** Guarantee is 12 months from purchase date, proof of which is required for any claim.

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