

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 AND CAUTIONS. USE THIS 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

- ❑ **WARNING!** Turn off, or disconnect from, air supply before servicing or performing any maintenance *and when unit is not in use.*
- ❑ **WARNING!** The blaster is designed to be used with the lid closed. Never use it with an open lid.
Failure to comply with this instruction may damage the unit and will invalidate your warranty.
- ❑ **WARNING!** Wear approved ear, eye, hand and respiratory protection when operating the blaster. A full range of personal safety equipment is available from your Sealey dealer.
- ✓ Maintain correct balance and ensure firm footing.
- ✓ Spillages of abrasive material, which may be slippery, must be cleaned up immediately to avoid injury.
- ✓ Locate blaster in a suitable, *well ventilated*, work area. Keep area clean and tidy and free from unrelated materials, and ensure that there is adequate lighting.
- ✓ Maintain the blaster in good condition (use an authorised service agent).
- ✓ Replace or repair damaged parts. Use recommended parts only. Non-authorised parts may be dangerous and will invalidate the warranty.
- ✓ Keep the unit clean for best and safest performance.
- ✓ Remove ill fitting clothing. Remove ties, watches, rings, and other loose jewellery, and contain long hair.
- ✓ Always keep the blast nozzle directed at the workpiece.
- ✓ If a failure or malfunction occurs **immediately disconnect from air supply.**
- ✓ Keep all other persons away from the working area. Contact with high pressure blast or inhaling the dust generated is dangerous.
- x **DO NOT** use the blaster for any purpose other than that for which it is designed.
- x **DO NOT** operate the blaster if any parts are missing or damaged as this may cause failure and/or personal injury.
- x **DO NOT** use any abrasive which contains free silica, as indicated in the Health & Safety Guidance Note EH59 (available from HMSO).
- x **DO NOT** attempt to clear a blocked nozzle while the unit is pressurised.
- x **DO NOT** allow untrained persons to operate the blaster.
- x **DO NOT** get the blaster wet or use in damp or wet locations or areas where there is condensation.
- x **DO NOT** leave the blaster operating unattended.
- x **DO NOT** operate the blaster when you are tired, under the influence of alcohol, drugs or intoxicating medication.
- x **DO NOT** stand on the blaster.
- x **DO NOT** direct air from the air hose at yourself or others.
- x **DO NOT** operate system with air supply exceeding 125 psi (8.5 bar).

2. INTRODUCTION & SPECIFICATIONS

2.1. Introduction

The SB990 and SB991 are shot blasters suitable for stripping rust and paint from wheels, chassis, panels and other corroded or painted surfaces. The SB990 is a hand portable unit whilst the SB991 is wheel mounted.

2.2. Specifications

	SB990	SB991
Air Pressure	15-125psi	15-125psi
Air Consumption	8cfm	8cfm
Abrasive Ø	250-800 microns	30-800 microns
Max. Abrasive Capacity	12kg/6.8 litres	12kg/6.8 litres
Abrasive Consumption	30-35kg/h	30-35kg/h

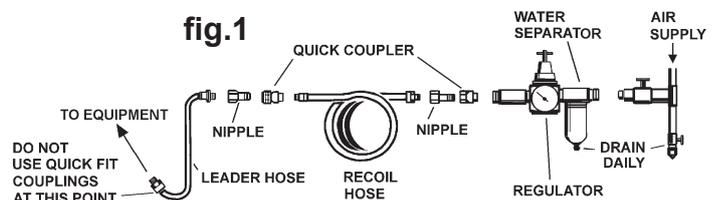
2.3. Abrasives

There are two types of abrasive grit:

- 1) Expendable - Use once and dispose of, recommended for large surfaces - Copper Slag and Olivene (silica-free sand). We recommend Sealey Blasting Grit, part number B/25KG.
- 2) Re-usable - more expensive and recommended for cabinets - Glass Beads and Fused Alumina.

3. AIR SUPPLY

- ❑ **WARNING!** Ensure the air supply does not exceed 125psi (8.5 bar) while operating the unit. Too high an air pressure will shorten the life of the unit due to excessive wear and may cause damage and/or personal injury.
- 3.1. Ensure the blaster air valve is in the 'Off' position before connecting to the air supply.
 - 3.2. Keep the air hose between the compressor and the unit a reasonable length and install an air filter and water separator (fig.1).
 - 3.3. Drain the air tank daily. Water in the air line will damage the unit.
 - 3.4. The recommended hook-up procedure is shown in fig.1.
 - 3.5. The minimum hose diameter should be 1/4" I.D. and fittings must have the same inside dimensions.
 - 3.6. Use correct hoses and fittings. **DO NOT** use quick change couplings as they add weight and can cause failure due to vibration. Add a leader hose and connect coupling between this and supply hose.
 - 3.7. Keep hoses away from heat, oil and sharp edges. Check hoses for wear and ensure that all connections are secure.



4. ASSEMBLY & OPERATION

☐ **WARNING! Before operating the unit ensure you read, understand and apply Section 1 Safety Instructions.**

Note: Numbers in brackets refer to the item numbers in the Parts Lists and Diagrams, Section 7.

4.1. Model SB990

- 4.1.1. Tighten air valve (10) on upper 'T' piece (A) using locknut (6).
- 4.1.2. Screw fitting (11), supplied fitted to water separator (12), into air valve (10). Tighten so that separator body hangs vertically downward.
- 4.1.3. Slacken lid (1) retaining nuts and allow eye bolt (3) to swing down. Swivel lid and gasket (2) to one side for grit filling. **Do not** exert any force on lid in open position or lid retaining bolt may be damaged.
- 4.1.4. Load body of blaster with clean, dry abrasive grit of particle size no greater than 800 microns (0.8mm) diameter and no less than 250 microns. Maximum fill level is just below the upper 'T' piece (A).
- 4.1.5. Ensure that top edge of body, lid gasket (2) and eye bolt (3) threads are free of grit. Replace lid (1), engage eye bolt (3) and tighten nuts.
- 4.1.6. Ensure that air valve (10) is closed and then connect blaster to air supply via fitting (13).
- 4.1.7. Adjust the air supply pressure to suit the workpiece (if in doubt start with a low pressure and gradually increase it to achieve required cleaning).
- 4.1.8. Point the blast nozzle (15) at the workpiece, or a safe area, and turn on air valve (10).
- 4.1.9. Move the blast stream over the workpiece in an even, circular motion. To avoid peening the flow should not be concentrated at one area.
- 4.1.10. Turn off air valve (10) to stop blasting. Allow all air pressure to exhaust from the unit before releasing hold of the nozzle.

4.2. Model SB991

- 4.2.1. Slacken lid (1) retaining nuts and allow eye bolt (3) to swing down. Swivel lid and gasket (2) to one side. **Do not** exert any force on lid in open position or lid retaining bolt may be damaged. Remove handle (19) and pressure gauge (B) from body of blaster.
- 4.2.2. Fit unplugged end of handle into bracket on rear of body and tighten clamping bolt (21).
- 4.2.3. Screw pressure gauge (B) into port in filter/separator/regulator (12).
- 4.2.4. Load body of blaster with clean, dry abrasive grit of particle size no greater than 800 microns (0.8mm) diameter. We recommend Sealey Blasting Grit, part number B/25KG. Maximum fill level is just below the upper 'T' piece (A).
- 4.2.5. Ensure that top edge of body, lid gasket (2) and eye bolt (3) threads are free of grit. Replace lid (1), engage eye bolt (3) and tighten nuts.
- 4.2.6. Ensure that air valve (10) is closed and then connect blaster to air supply via fitting (13).
- 4.2.7. Adjust the regulator (12) pressure to suit the workpiece (if in doubt start with a low pressure and gradually increase it to achieve required cleaning).
- 4.2.8. Point the blast nozzle (15) at the workpiece, or a safe area, and turn on air valve (10).
- 4.2.9. Open grit valve (10A), fully if using 800 micron grit or adjust as required if using smaller.
- 4.2.10. Move the blast stream over the workpiece in an even, circular motion. To avoid peening the flow should not be concentrated at one area.
- 4.2.11. Turn off grit valve (10A) and then air valve (10) to stop blasting. Allow all air pressure to exhaust from unit before releasing hold of nozzle.

Note: The higher the blast pressure the quicker you can work, but the nozzle (15), blast hose (14) and lower 'T' fitting (7) will wear faster too. Use the lowest pressure that gets the work done satisfactorily.

5. MAINTENANCE

☐ **WARNING! Disconnect from the air supply before performing any maintenance!**

☐ **WARNING! The following items should be checked on a regular basis.**

- 5.1. **Blast Nozzle** - Check for wear and replace as necessary.
- 5.2. **Blast Hose** - This hose will wear quickest near the lower 'T' piece (7). Check this 300mm section regularly for early signs of blistering. Cut off and discard worn section. To reduce wear rate keep hose adjacent to 'T' as straight as possible.
- 5.3. **Lower 'T' Piece** - This will wear in the output leg. Check regularly and when wear becomes noticeable rotate 'T' piece through 180°. Replace when both legs are worn.
- 5.4. **Hoses & Clips** - Replace immediately at any sign of damage.
- 5.5. **Lid Gasket** - Check to ensure it provides an airtight seal.
- 5.6. **Eye Bolts & Nuts** - Check that threads are in good condition (tightening nuts with abrasive grit present will cause damage).
- 5.7. **Water Separator** - Drain before use by loosening drain screw while separator is pressurised.

6. TROUBLESHOOTING GUIDE

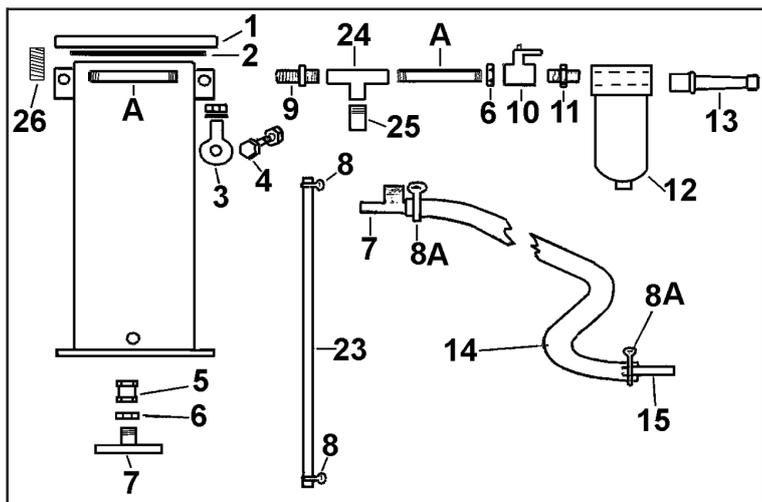
PROBLEM	CAUSE	SOLUTION
Air and grit flow stops	Nozzle blocked	Immediately turn off air valve. Turn off grit valve (SB991 only). Disconnect air supply and reopen air valve to vent unit. Remove nozzle and clear blockage.
Grit flow stops, air flow OK	1) All grit used 2) Lower 'T' piece blocked	1) Replenish. 2) Turn off air valve. Turn off grit valve (SB991 only). Remove lower 'T' piece and clear blockage. 3) See 'Note' below.
Spluttering grit flow (SB991)	Grit-to-air ratio too high	Reduce grit flow by adjusting grit flow valve.

Note: If, when clearing a blockage of the lower 'T' piece, the grit is found to be damp, this indicates moisture in the air supply. The situation can be improved by effecting some or all of the following:

- If possible locate compressor in a low humidity area.
- Keep compressor/receiver well ventilated and, therefore, cool.
- Use a longer air line between compressor and blaster.
- Use supply from largest compressor/receiver available.
- Drain receiver frequently.
- Fit an additional water separator on the compressor.

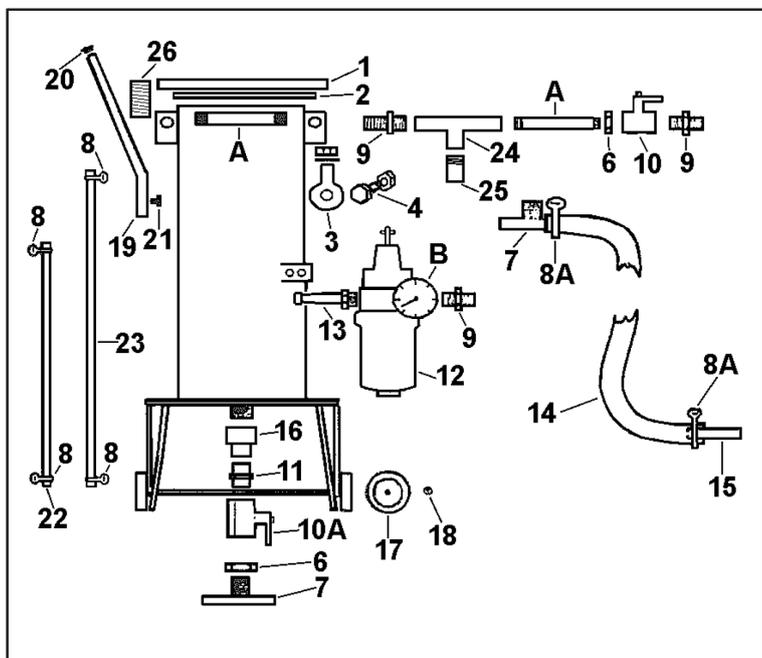
7. PARTS LISTS & DIAGRAMS

Issue: 2
Date Issued: 26/02/2009



MODEL: SB990

Item	Part No.	Description
1	SB990/01	Lid
2	SB990/02	Rubber Gasket
3	SB990/03	Eye Bolt, Nut & Washer
4	SB990/04	3/8.UNF Bolt & Nyloc Nut
5	SB990/05	Socket
6	SB990/06	Locknut
7	SB990/07	.T. Piece, Lower Outlet
8	SB990/08	Hose Clip
8A	SB990/08A	Hose Clip
9	SB990/09	1/4. Hose Tail
10	SB990/10	Ball Valve
11	SB990/11	1/4.-1/4. Nipple
12	SA106F	Air Filter
13	AC04	Adaptor
14	SB990/14	Blast Hose, 10mm x 3m
15	SB990/15	Nozzle, Tungsten Carbide
23	SB990/23	Connecting Hose, 750mm
24	SB990/24	.T. Fitting, 1/4. BSP
25	SB990/25	Pressure Release Valve
26	SB990/26	Spring



MODEL: SB991

Item	Part No.	Description
1	SB990/01	Lid
2	SB990/02	Rubber Gasket
3	SB990/03	Eye Bolt, Nut & Washer
4	SB990/04	3/8.UNF Bolt & Nyloc Nut
5	SB990/05	Socket
6	SB990/06	Locknut
7	SB990/07	.T. Piece, Lower Outlet
8	SB990/08	Hose Clip
8A	SB990/08A	Hose Clip
9	SB990/09	1/4. Hose Tail
10	SB990/10	Ball Valve, Air
10A	SB990/10	Ball Valve, Grit
11	SB990/11	1/4.-1/4. Nipple
12	SA106FR	Air Filter / Regulator
13	AC04	Adaptor
14	SB990/14	Blast Hose, 10mm x 3m
15	SB990/15	Nozzle, Tungsten Carbide
16	SB991/16	Adaptor, 1/2. - 1/4. Female
17	SB991/17	Wheel
18	SB991/18	Starlock Washer
19	SB991/19	Handle
20	SB991/20	Cap, Handle
21	SB991/21	Bolt
22	SB991/22	Connecting hose, 500mm
23	SB991/23	Connecting Hose, 750mm
24	SB990/24	.T. Fitting, 1/4. BSP
25	SB990/25	Pressure Release Valve
26	SB990/26	Spring

MODEL: SB990 SB991

SERIAL NUMBER:

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 will be required for any claim.

INFORMATION: For a copy of our latest catalogue and promotions call us on 01284 757525 and leave your full name and address, including postcode.



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