



PRESSURISED SANDBLASTER

MODEL NO: CPSB100

PART NO: 7640130

OPERATION & MAINTENANCE INSTRUCTIONS

LS0510

INTRODUCTION

Thank you for purchasing this Clarke Pressurised Sandblaster.

Before you try to use this product, read this manual and follow the instructions carefully. In doing so you will ensure your safety and the safety of others around you. You can also look forward to a purchase that gives you long and satisfactory service.

GUARANTEE

This product is guaranteed against faulty manufacture for a period of 12 months from the date of purchase. Please keep your receipt which will be required as proof of purchase.

This guarantee is invalid if the product is found to have been abused or tampered with in any way, or not used for the purpose for which it was intended.

Faulty goods should be returned to their place of purchase, no product can be returned to us without prior permission.

This guarantee does not effect your statutory rights.

CONSUMABLES

Please be aware that certain parts of this sandblaster will wear, and require replacing and that these parts may not be covered by your guarantee.

The speed at which certain parts wear depends on the abrasiveness of the materials used. Replacement parts are available from your nearest Clarke International dealer.

WHAT IS SUPPLIED

- 1 x Abrasive Tank Assembly
- 2 x Handlebars (with screws, washers and nuts)
- 2 x Wheels and Accessories
- 1 x Wheel Axle
- 1 x Sand Hose
- 1 x Funnel
- 1 x Hood
- 4 x Nozzle (2mm, 2.5mm, 3mm and 3.5mm)
- 1 x Instruction Manual

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GENERAL SAFETY RULES



Warning: Compressed air can be dangerous. Ensure that you are thoroughly familiar with all precautions relating to the use of compressors and compressed air supply.

- Read this instruction manual before connecting the sandblaster to a compressor.
- Do not use any silica based abrasives with this tool. Silica based abrasives
 have been linked to severe respiratory disease. Always use recommended
 abrasives. Abrasives used in this unit may be covered by COSHH
 Regulations.
- 3. Read this manual carefully, Learn the tool's applications and limitations, as well as potential hazards specific to it.
- 4. Do not expose tool to moisture. Don't use this tool in damp or wet locations, Keep out of rain.
- Keep work area clean and well lit. Cluttered or dark work areas invite accidents.
- 6. Keep children away. All children should be kept away from the work area. Never let a child handle a tool without strict adult supervision.
- 7. Do not operate this tool if under the influence of alcohol or drugs. Read warning labels on prescriptions to determine if your judgment or reflexes are impaired while taking drugs. If there is any doubt, do not attempt to operate,
- 8. Use safety equipment. Dust mask, non-skid safety shoes, hard hat, or hearing protection should be used in appropriate conditions.
- 9. Don't overreach, Keep proper footing and balance at all times when operating this product.
- 10. Always disconnect the tool from the air supply and release pressure from the tank before storing, servicing, or changing accessories.
- 11. Use clamps or other practical means to secure and support the work piece to a stable platform. Do not hold the work by hand or against your body.
- 12. Do not point the sandblaster at anyone or any objects other than the intended work object.
- 13. Check your sandblaster regularly for damage, If part of the sandblaster is damaged it should be carefully inspected to make sure that it can perform its intended function correctly. If in doubt, the part should be repaired. Refer all servicing to a qualified technician. Consult your dealer for advice.
- 14. Do not attempt to operate this tool near flammable materials or combustibles. Failure to comply may cause serious injury.

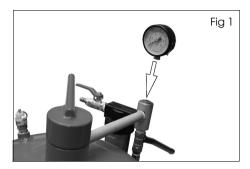
- 15. Always check to make sure that the trigger is not on before connecting blaster to air supply.
- 16. Store idle tools out of the reach of children and untrained persons. Tools may be dangerous in the hands of untrained users.
- 17. Drain water trap periodically during use, Do not allow moisture to fill more than 1/2 of the water trap bowl. Do not leave water standing in water trap when storing the sandblaster.
- 18. Do not allow sandblaster to sit pressurized while unattended or not in use.
- 19. Periodically check the abrasive medium delivery equipment. Valves, hoses and nozzles that carry the abrasive medium after it leaves the pressure tank are subjected to the abrasive blasting action so will wear out more quickly than other components.
- 20. Release the air pressure in the tank before opening. See "Releasing Pressure from the Tank" section, Make sure pressure gauge reads "0" before opening the tank. Do not attempt any maintenance on the abrasive blaster until the pressure gauge reads "0", and it has been disconnected from the air supply.
- 21. Maintain correct air pressure whenever working. Do not allow pressure to exceed 125 psi, If the safety valve does not release excess air pressure, stop all work and release pressure from the tank (see "Releasing Pressure from the Tank" section).
- 22. ALWAYS make sure there is adequate ventilation. Do not spray in confined areas,
- 23. In the case of injury seek expert medical advice immediately.
- 24. SECURE THE WORK Use clamps or a vice to hold the work if it is small or light weight rather than using your hands. This frees both hands to operate the nozzle.



ASSEMBLY

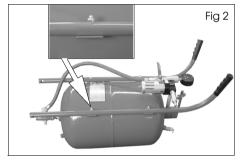
FIT PRESSURE GUAGE TO THE TANK

1. Screw the pressure guage onto the sandblaster as shown in Fig 1.



FIT HANDLE BARS TO THE TANK

- Lay the tank on a flat level surface (such as a workbench or table top), with the handlebar mounting brackets facing up, as shown in Fig 2.
 - Handlebars are labeled "LEFT" and "RIGHT."
- Align the holes in the left handlebar with the handlebar mounting brackets on the left side of the tank.



- 3. Place a washer onto each of the four handlebar mounting screws. Insert a screw through each of the holes in handlebar and mounting brackets,
- Place a nut onto each of the screws and firmly tighten in place with a wrench.
- 5. Repeat steps 2-4 for the right handlebar.

ASSEMBLE THE FRAME

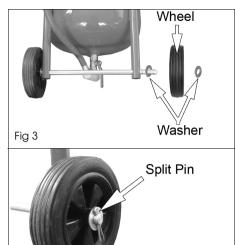
- Slide the axle through the axle holes located at the bottom of the handlebars, see Fig 3.
- 2. Slide a washer onto each end of the axle.
- Place a wheel onto each end of the axle then slide a washer onto the axle.
- Insert a split pin through the holes in each end of the axle and bend them so the wheels cannot slide off the axle, see Fig 4.



- 1. Roll the tank over so that handlebars are now facing down.
- 2. Align the holes of the front foot with the holes in the foot mount on the front side of the tank, see Fig 5.
- Insert a split pin through the holes and bend it so the front foot cannot slide off the foot mount.

ATTACH THE HOSE

- Slide the hose onto the outlet pipe on the bottom of the sandblaster as shown in Fig 6.
- 2. Tighten the clip shown to secure the hose.
- Connect the sandblasting gun to the other end of the hose, in a similar manner.





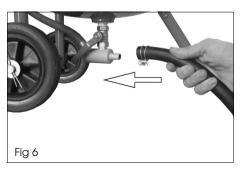


Fig 4

OPERATION



WARNING: ALWAYS WEAR YOUR HOOD, DUST MASK AND HEAVY DUTY CANVAS GLOVES WHEN OPERATING THE SANDBLASTER.

WARNING: BEFORE OPERATING YOUR SANDBLASTER, INSPECT EACH CONNECTION, DOUBLE CHECKING TO MAKE SURE THAT ALL ARE TIGHT AND PROPERLY SEALED.

WARNING: THIS SANDBLASTER IS NOT INTENDED FOR USE WITH SILICA BASED ABRASIVES. WHICH HAVE BEEN LINKED TO SEVERE RESPIRATORY DISEASE. ALWAYS USE SILICA SUBSTITUTES (SUCH AS CLARKE GLASS BEAD ABRASIVE.

SAFETY AND HEALTH CONSIDERATIONS

- Before opening tank make sure that it is not pressurized. Ensure the gauge reads "0". If it does not, release pressure from the tank (See page 11).
- Disconnect the compressor before opening the tank. Protect
 yourself and those around you from "over-spray". Remember that
 your portable abrasive blaster is shooting a powerful spray of
 abrasive material. Do not point it at yourself or anyone around you.
- Wear protective clothing including hood (30), and heavy gloves when using this abrasive blaster.
- Wear a filter or mask over your mouth when using this tool. You will create a cloud of abrasive material and debris which is dangerous to inhale.
- Protect anything around you that may be damaged from the abrasive spray or particles. Nothing subject to contamination damage or with a fine surface should be near your abrasive blaster.

ABRASIVE SELECTION

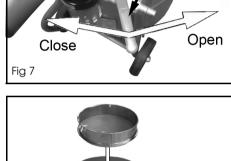
The kind of abrasive you choose will greatly influence the amount of time needed to clean a given surface area.

LOADING THE ABRASIVE

- To prevent clogging, ensure that the abrasive you use is dry.
- While you may re-use abrasive, remember that abrasive grit/ material does wear out. After use, abrasive becomes smoother and rounder, thus reducing its effectiveness.

NOTE: Re-using abrasive may also cause clogging due to fine debris contained in the mixture from prior use.

- Close the air supply valve by turning it to the closed position, see Fia 7
- 2. Press safety trigger to release any pressure from the tank.
 - Make sure the pressure gauge reads "0"
- 3. Remove the filler cap.
- Using the serve and funnel supplied, pour the selected abrasive media into the tank, see Fig 8.
 - Do not fill the tank more than ³/₄ full.
 - If humidity in your region is 90% or more, only fill the tank ½ full and check the water trap more frequently.
- 5. Replace the filler cap ensuring the 0-ring is in place.



Air Supply Valve



NOTE: Place your air compressor in another room to prevent damage from the intake of abrasive dust laden air.

ABRASIVE FLOW ADJUSTMENT

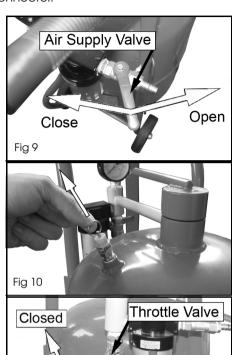
- Choose a larger nozzle for a broader spray pattern. Choose a smaller nozzle for more focused spray.
- Adjust air pressure with the throttle valve. Adjust abrasive flow with abrasive control valve.
- Watch for abrasive clogging. Release pressure from the tank if necessary and replace the abrasive with drier or cleaner abrasive.

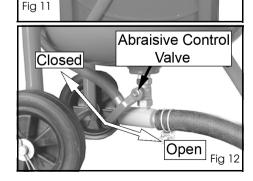
TO START BLASTING

NOTE: Start with all valves in the closed position. Following the instructions below will help prevent clogging in the delivery hose, outlet manifold and the safety trigger.

- 1. Connect compressor to the inlet connector.
- 2. Start compressor and open the air supply valve, see Fig 9.
 - The tank will start to pressurise.

- 3. Test the safety valve by pulling up on the valve as shown in Fig 10.
 - Air will hiss out when the valve is pulled.
- 4. Open the throttle valve, Fig 11.
- Check for leaks at the filler cap and along all hoses and fittings as the system pressurises. If leaks are observed, release the pressure from the tank and repair leaks immediately.
- 6. Press and hold the safety trigger until air is flowing through it.
- With the safety trigger open, slowly open the abrasive control valve and shown in Fig 12 until abrasive material begins to flow out of the safety trigger.
- Adjust the abrasive control valve until the desired amount of abrasive material is flowing through the safety trigger,
- 9. Begin blasting.

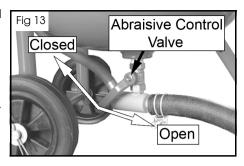




Open

TO STOP BLASTING

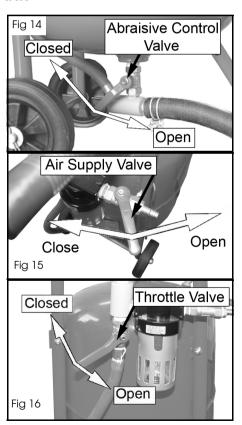
- While continuing to press and hold the Trigger, turn the abrasive control valve to the closed position, see Fig 13.
- 2. When you notice only air (no abrasive) is coming out of the safety trigger, you can stop the air flow by releasing the trigger. By doing this you are ensuring a clean and cog-free manifold, hose, and safety trigger.



3. ALWAYS clean the gun thoroughly after use.

RELEASING PRESSURE FROM THE TANK

- 1. When finished blasting, close the abrasive control valve, see Fig 14.
- Press and hold the trigger to expel any remaining abrasive material from the abrasive hose.
- When you notice only air (no abrasive) is coming out of the safety trigger, Close the Air Supply Valve, see Fig 15.
- 4. Ensure the throttle valve is open, see Fig 16.
- 5. Point trigger in a safe direction.
- Press the trigger until air stops flowing and pressure gauge reads "0"
- 7. Disconnect air supply hose from supply valve.





MAINTENANCE



WARNING: DISCONNECT THE SANDBLASTER FROM THE AIR SUPPLY BEFORE CHANGING ACCESSORIES, ATTEMPTING TO MOVE THE SANDBLASTER OR PERFORM ANY MAINTENANCE.

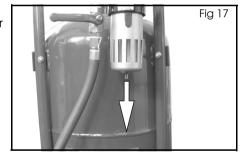
- 1. Keep your sandblaster clean, and protect it from damage.
- 2. When initially pressurising, check for leaks at the top of the tank and at all hoses and fittings.
- 3. Leaking joints maybe repaired by replacing worn or damaged parts or using teflon tape.
- 4. Check for worn abrasive hose and fittings,

AIR FILTER

DRAINING

Condensation will collect in the air filter, which must be drained manually.

 Drain the air filter by pulling down on the drain plug until all the water comes out, see Fig 17.



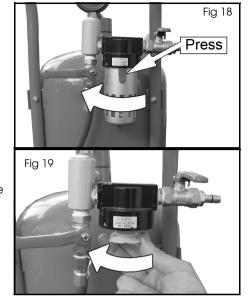
CLEANING/REPLACING

 Press the release catch and unscrew the condensation chamber, see Fig 18.

2. Unscrew the filter as shown in Fig 19 and wipe clean.

NOTE: Do not use harsh or abraisive chemicals when cleaning the condensation chamber.

3. Refit the condensation chamber.



REPLACING THE NOZZLE

NOTE: ONLY use identical replacement parts when servicing.

After 10-12 hours of blasting time the nozzle should be checked for wear. The nozzle will wear out over time and should be replaced when the hole is no longer round or the abrasive media does not flow smoothly through. To replace the nozzle:

- 1. Disconnect the sandblasting gun from the air hose.
- Unscrew the nozzle adapter (38), located at the front of the sandblasting gun.
- 3. Remove the old nozzle (37).
- 4. Insert new nozzle.
 - A pack of 4 Replacement nozzles are available from your Clarke dealer Part number 7640132.
- 5. Replace the nozzle adapter (38) and firmly screw it onto sandblasting gun.
 - Keep your sandblaster clean and protect it from damage.

 Check for worn abrasive hose and fittings. Watch for leaks, blistering bulging or thinning of the hose. 	ng,
Replace any parts which appear worn.	
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SPECIFICATIONS

Sand Grade Type	Above 80 grit
Abrasive Material	Aluminium Oxide, Bank Sand, Beach Sand, Glass Beads
Tank Capacity	32 Litres (7.04 Gallons)
Operating Pressure	65 - 125 PSI (4.4 - 8.6 Bar)
Flow Rate Required	6 - 19 CFM (at 115 psi)
Compressor Size	2 - 10 HP
Nozzle Sizes	2, 2.5, 3, 3.5 mm
Dimensions (L x W x H)	440 x 344 x 850 mm
Weight (empty)	19 kg

PARTS & SERVICING

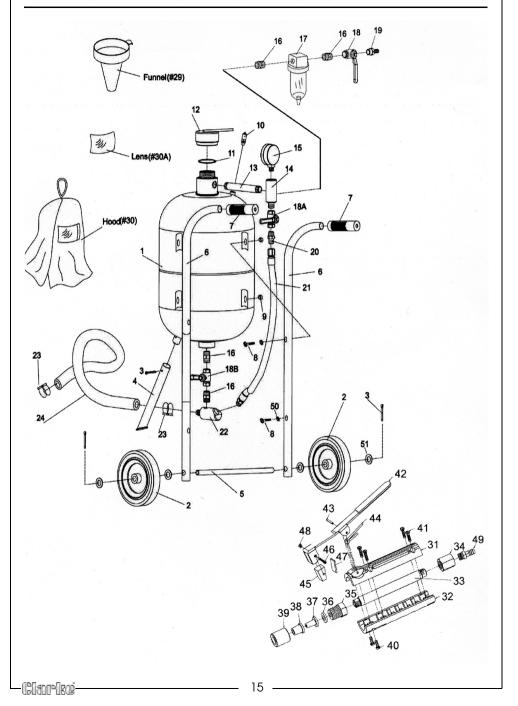
For Parts & Servicing, please contact your nearest dealer, or CLARKE International, on one of the following numbers.

PARTS & SERVICE TEL: 020 8988 7400 PARTS & SERVICE FAX: 020 8558 3622

or e-mail as follows:

PARTS: Parts@clarkeinternational.com SERVICE: Service@clarkeinternational.com

EXPLODED DIAGRAM & PARTS LIST



EXPLODED DIAGRAM & PARTS LIST

1 Tank HTCPSB10001 2 Wheels HTCPSB10002 3 Cotter Pins HTCPSB10003 4 Front Foot HTCPSB10004 5 Axie HTCPSB10005 6 Handle Bars HTCPSB10006 7 Handle Grips HTCPSB10007 8 Pan Head Screws HTCPSB10009 9 Hex Nuts HTCPSB10009 10 Safety Valve HTCPSB10010 11 O-Ring HTCPSB10010 12 Tank Filler Cap HTCPSB10011 12 Tank Filler Cap HTCPSB10012 13 Connecting Pipe HTCPSB10013 14 Intake Manifold HTCPSB10014 15 Pressure Gauge HTCPSB10015 16 3/8" Connector HTCPSB10015 17 Water Trap Filter HTCPSB10017 18 3/8" Brass Air Supply HTCPSB10018 Valve HTCPSB10018 HTCPSB10018A 18B 3/8" Steel Abrasive HTCPSB10018A </th <th>NO</th> <th>DESCRIPTION</th> <th>PART NO</th>	NO	DESCRIPTION	PART NO	
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33 Metal Pipe HTCPSB10033 34 Inlet Connector HTCPSB10034	31	Upper Body	HTCPSB10031	
34 Inlet Connector HTCPSB10034	32	Lower Body	HTCPSB10032	
	33	Metal Pipe	HTCPSB10033	
35 Adapter HTCPSB10035	34	Inlet Connector	HTCPSB10034	
	35	Adapter	HTCPSB10035	

NO	DESCRIPTION	PART NO
36	O-Ring	HTCPSB10036
37	Ceramic Nozzle	HTCPSB10037
38	Rubber Adapter	HTCPSB10038
39	Nozzle Cap Nut	HTCPSB10039
40	Screw ST 4.2 x 16	HTCPSB10040
41	Screw ST 4.2 x 12	HTCPSB10041
42	On/Off Control Lever	HTCPSB10042
43	Spring Pin	HTCPSB10043
44	Spring	HTCPSB10044
45	Rubber Pad	HTCPSB10045
46	Screw M3 x 25	HTCPSB10046
47	Hard Alloy Pad	HTCPSB10047
48	Nut M3	HTCPSB10048
49	Hose Adapter	HTCPSB10049
50	Washer	HTCPSB10050
51	Washer	HTCPSB10051

DECLARATION OF CONFORMITY





Hemnall Street, Epping, Essex CM16 4LG

DECLARATION OF CONFORMITY

This is an important document and should be retained.

We hereby declare that this product(s) complies with the following directive(s):

97/23/EC Pressure Equipment Directive

The following standards have been applied to the product(s):

ASME VIII DIV1

The technical documentation required to demonstrate that the product(s) meet(s) the requirement(s) of the aforementioned directive(s) has been compiled and is available for inspection by the relevant enforcement authorities.

The CE mark was first applied in: 2009

Product Description:

Pressurised Sand Blaster

Model number(s):

CPSB 100

Serial / batch Number:

n/a

Date of Issue:

30/09/09

Signed:

J.A. Clarke

Director

CPSB100 Pressurised Sand Blaster (rv1)

Page 1 of 1



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