

Not intended to be a complete Operator Manual. Available upon request.

INSTALLATION, OPERATING AND MAINTENANCE DIRECTIONS —

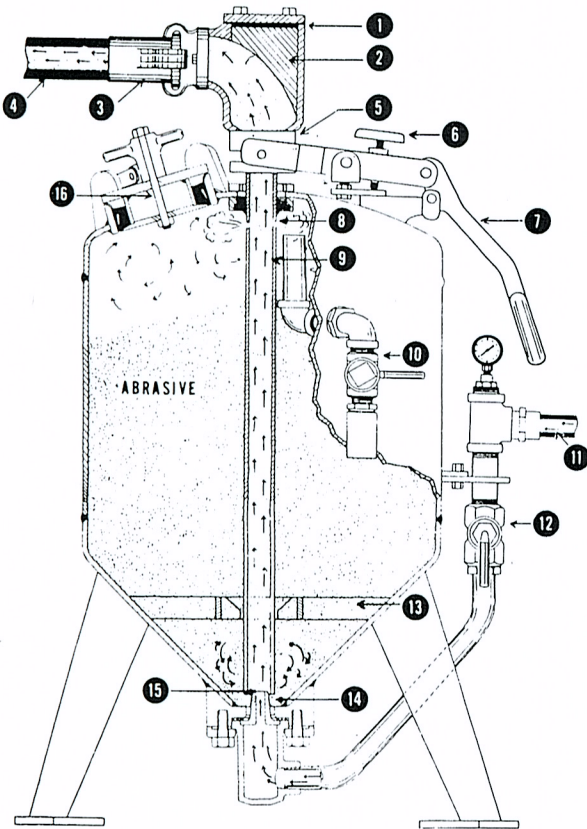
MMLJ

SANSTORM Models

AH, AHW, BH, BHW, BHW-26, HEW, HC* Manual Machines and All Single Line and Dual Line Remote Control Machines

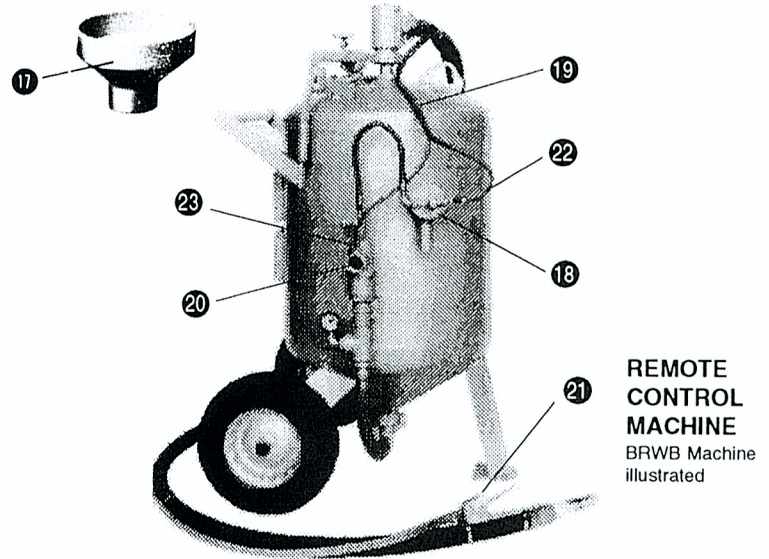
The following information is given with your best interest in mind.

Do not jeopardize the machine operation and results by lack of attention to these directions.



MANUAL CONTROL MACHINE

*The Model HC Machine has a modified Fill Cap arrangement, Feature 16 above, and the Air Pressure Release Valve, Feature 10 above, is located on the machine top.



REMOTE CONTROL MACHINE
BRWB Machine illustrated

Sanstorm Features:

1. Abrasive Outlet Elbow
2. Replaceable Elbow Insert — Hardened Steel. Initial abrasive charge is "Pocketed" in insert as protection against subsequent abrasive wear for long life result.
3. Kwik-Fit Hose Coupling
4. Blast Hose
5. Swivel — Permits 360° blast hose movement.
6. Abrasive Adjustment Screw
7. Abrasive Shut-off Lever for clean air blast to blow off work.
8. Outlet Pipe Vents — Equalizes air pressure in machine.
9. Abrasive Outlet Pipe — Special hardened, abrasion resistant steel.
10. Air Pressure Release (Blow-off) Valve — Line Assembly
11. Compressed Air Inlet Line
12. Compressed Air Intake Valve — Line Assembly
13. Guide — Centers Outlet over Air Inlet Nozzle
14. Air Inlet Nozzle — Special hardened, abrasion resistant steel
15. Air-Abrasive Mixing Area — Venturi-type action assures positive abrasive control and constant abrasive discharge.
16. Fill Cap
17. Filling Funnel
18. RCB-3 Remote Control Blow-off Valve
19. Remote Control Air Supply Hose
20. DRCV-2 Compressed Air Intake Valve
21. Remote Control Activator "Deadman" Valve
22. DRC-3-M-A Dual Line Air Supply Fitting
23. DRC-3-M-A Dual Line Air Supply Fitting

Step 1. — Compressed air supply hose size and lengths from air compressor to SANSTORM machine.

50' or shorter length — use at least 1" ID hose.*

75' to 100' lengths — use at least 1 ¼" ID hose.

125' and longer lengths — use at least 1 ½" ID hose.

*If available hose is used and is smaller than sizes specified (against recommendations) use two hoses — example, two ¾" ID instead of one 1" ID. Connect hoses to machine and air compressor with "Y" pipe fittings. — The air compressor tank (air receiver) normally has 1 ½" or 2" openings. Use 1" or larger valves & fittings to connect air supply hose to these openings — do not connect the air supply line to the ¾" air valves commonly used for air tools — blast equipment is different in its air requirements.

Avoid restrictions in air supply line, because it is important that proper volume and pressure of compressed air occur for maximum machine production.

Step 2. — Connection of air supply hose to machine.

“Blow-Out” air supply hose prior to coupling with machine in order to remove all moisture, oils and dirt.

If machine is manual type — connect hose to feature 11, compressed air intake valve line.

If machine is remote control type — connect hose to feature 20, compressed air intake valve.

Step 3. — Connect coupled blast hose, features 3 and 4, to M-17 abrasive outlet elbow, feature 1.

Step 4. — Connect remote control air supply hose for remote control machines.

A. Single Line Remote Control. Connect one end of hose, feature 19, directly to remote control blow-off valve, feature 18. Couple opposite end to remote control activator valve, feature 21.

B. Dual Line Remote Control. Connect two of the female fittings of one end of the dual line hose to the 1/8" male adapter, feature 23, and to the 1/8" male fitting on blow-off valve, feature 22. Connect the opposite end of the dual line hose that is connected to feature 23, to the bottom 1/8" male connection of the dual line activator valve, feature 21. Connect the opposite end of the dual line hose, that is connected to feature 22, to the top 1/8" male connection of the dual line activator valve. Activator valve should be conveniently positioned near end of blast hose and held in place by coupling band. All connections must be absolutely tight because any compressed air leakage will impair machine's operation.

Step 5. — Abrasive usage and filling of machine.

Machine will use any type abrasive or cleaning medium which will slide on a 45° angle freely.

Abrasive or cleaning medium should be no larger than one-third the diameter of the blast nozzle used — to avoid nozzle plugging.

Remove fill cap, feature 16, by lifting hinged “safety lock”, and turning cap to align “cap slots” with “hold-down lugs.” Use filling funnel, feature 17, and pour abrasive into machine — keeping “bag particles” and other objects from entering machine. Upon replacing fill cap be sure to turn the cap so the hinged “safety lock” is down against the cap. *For Model HC Machine, loosen fill cap screw — remove cross bar to remove fill cap. Never attempt to remove fill caps while machine is under pressure.*

Step 6. — To adjust abrasive supply.

Loosen abrasive adjustment screw, feature 6.

Pull abrasive shut-off lever, feature 7, upward which will raise outlet pipe, feature 9. Raise pipe approximately 1 1/2" — the distance can be judged at the point where the pipe extends out the top of the machine. Said distance will actually vary depending on size of blast nozzle used, size and type of abrasive used.

While the outlet pipe is in the adjusted, raised position, tighten abrasive adjustment screw, feature 6, and set lock nut thereon, and the same continuous abrasive adjustment will be provided.

Step 7. — To begin the blast cleaning operation.

Maintain approximately 100 pounds compressed air pressure at pressure gauge on machine.

Be sure air pressure release (blow-off) valve, feature 10, is closed — valve handle should be as pictured. If the machine is a manual type, open compressed air intake valve, feature 12, fully — valve handle should be as pictured.

If the machine is a remote control type, depress SR-3 or DR-3-1 remote control activator valve lever, feature 21, continuously.

(A second or two will pass before the operation begins, because the machine must become fully pressurized and the abrasive must pass through the length of blast hose.)

Step 8. — To stop the blast cleaning operation.

If the machine is a manual type, close compressed air intake valve, feature 12, and open air pressure release (blow-off) valve, feature 10. Said actions will shut-off compressed air to the machine and release the air pressure from the machine.

If the machine is a remote control type, release depression on SR-3 or DR-3-1 remote control activator lever, feature 21, which will automatically shut-off the compressed air supply to the machine and release the air pressure from the machine.

Step 9. — Air blast for dusting-off finished work.

Push abrasive shut-off lever, feature 7, towards machine which lowers outlet pipe, feature 9, to a seating position and permits only compressed air to be discharged from the blast nozzle. If excessive moisture has “caked” the abrasive around the outlet pipe, a twisting of the pipe, by means of moving the outlet elbow, will permit the pipe to be lowered easily.

MAINTENANCE

CHANGE OR STOPPAGE OF ABRASIVE FLOW — assuming proper installation, air pressure and adjusted clean, dry abrasive has occurred.

Check packing gland nut assembly, immediately above number 8, for leakage. If the nut is tight and a leakage is found, replace gaskets M-13 and M-5-G. Excessive tightness of the nut will not correct leakage, inasmuch as the nut merely holds the gasket assembly in place. *For Model HC Machine, specify AB5G gaskets.*

Check blast nozzle — If foreign matter should accidentally enter the machine, a stoppage can occur. If the machine is a remote control type, also check diaphragm in RCB-3 remote control blow-off valve, feature 18 — replacement diaphragm is part RCB-3E.

If abrasive is excessive and cannot be controlled or shut-off, abrasive outlet pipe, feature 9, may need replacement. For A & B Series machines, specify AB-63 outlet pipe. For HEW Series machines, specify HEW-16C outlet pipe. *For Model HC Machine, specify HC-16-C Outlet Pipe.*

If excessive moisture over a period of time has "caked" the abrasive, loosen abrasive adjustment screw, feature 6, fully and activate abrasive shut-off lever, feature 7, up and down which may correct the condition. If not remedied, empty and clean-out machine.

If the manual control valves, features 12 and 10, on a manual machine develop a leak, use ordinary plug valve lubricant and "re-pack" said valves.

"Blow-off" restrictors in the form of a pipe coupling are assembled with the manual blow-off valve, feature 10, and remote control blow-off valve, feature 18, as a restriction to the blow-off action and to increase the life of the blow-off assembly. The restrictor couplings have a female thread, so as to receive an "extension" pipe to discharge the blow-off action further away from the machine.

The air pressure gauge on machine is important and should be replaced when broken or inoperative in order to sustain production and profitable results.

SANSTORM Parts Catalog for A, B, HEW Series machines, Catalog PC-ABH-88 applies to the machines covered by these directions and is available for the asking. *For Model HC Machine, specify Parts Catalog CEH-87*

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IMPORTANT

(Pertinent to all abrasive blast cleaning machines.)

WARNING

Before operating any abrasive blast cleaning equipment READ ALL operating and maintenance instructions. Personal protective equipment is REQUIRED when using this type of equipment. Operator MUST be equipped with heavy canvas or leather gloves, aprons, and arm protectors. Safety shoes and hearing protection MUST be worn when required. NIOSH approved air fed respirators (helmets) furnished with at least Grade D breathing air MUST be used for protection against dust inhalation. Air MUST be filtered and monitored for Carbon Monoxide.

DANGER

Use of Abrasive cleaning equipment with silica sands may produce a heavy concentration of silica dust. Breathing this dust can produce "Silicosis," a permanent lung disease. Depending upon the object to be cleaned, blasting, even with non-silica abrasives may release hazardous dust particles into the air that can cause permanent lung damage. Failure to use NIOSH approved air fed respirator (helmet) may cause SERIOUS lung DAMAGE. This warning, as to the proper use of an approved respirator (helmet) applies not only to the operator, but extends to all those working in or around the blasting area, such as pot tenders, painters, supervisors, etc.

CAUTION

Blast cleaning equipment and components are subjected to wear and deterioration.

- Keep your equipment in good operable condition.
- MAINTAIN nozzle control at all times during operation.
- INSPECT machine, nozzles, hoses, and couplings.
- WIRE all kwik-fit hose couplings together.
- Inspect, clean, or replace helmet lens and filters frequently.
- Ground equipment to AVOID electrical shock.
- DO NOT operate any machine without thorough knowledge of machine operation.

Carefully READ the INSTALLATION, OPERATING, and MAINTENANCE directions supplied with the machine from the factory. If you do not have a copy, please contact your employer (supervisor) or MMLJ, INC., P.O. Box 70527, HOUSTON, TEXAS 77270-0527.

— WARNING —

OSHA regulations require remote controls (point of operations controls) on all blast machines. Basic manual control machines shown in this manual are for the convenience of customers having existing remote control systems and for selecting various remote control systems offered.