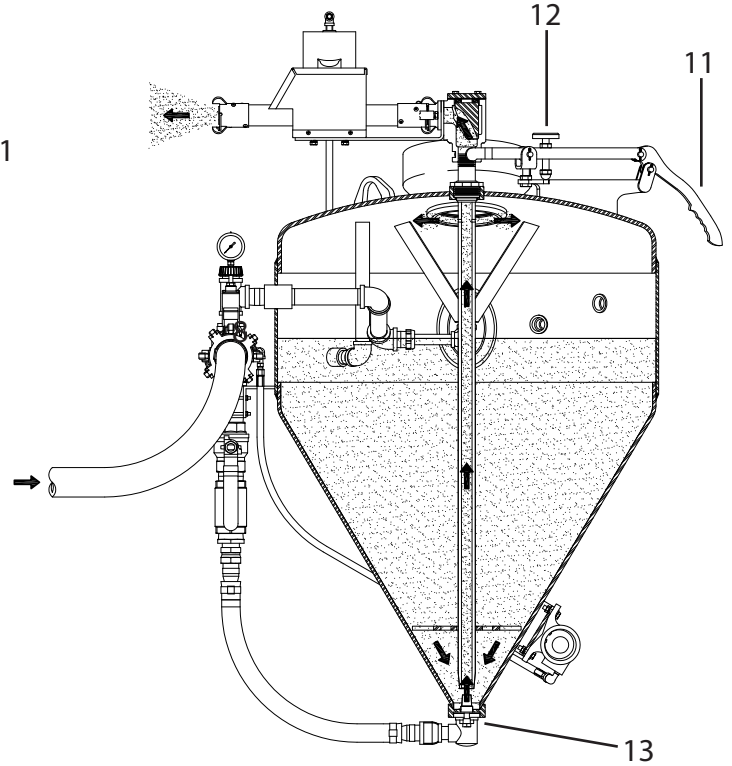
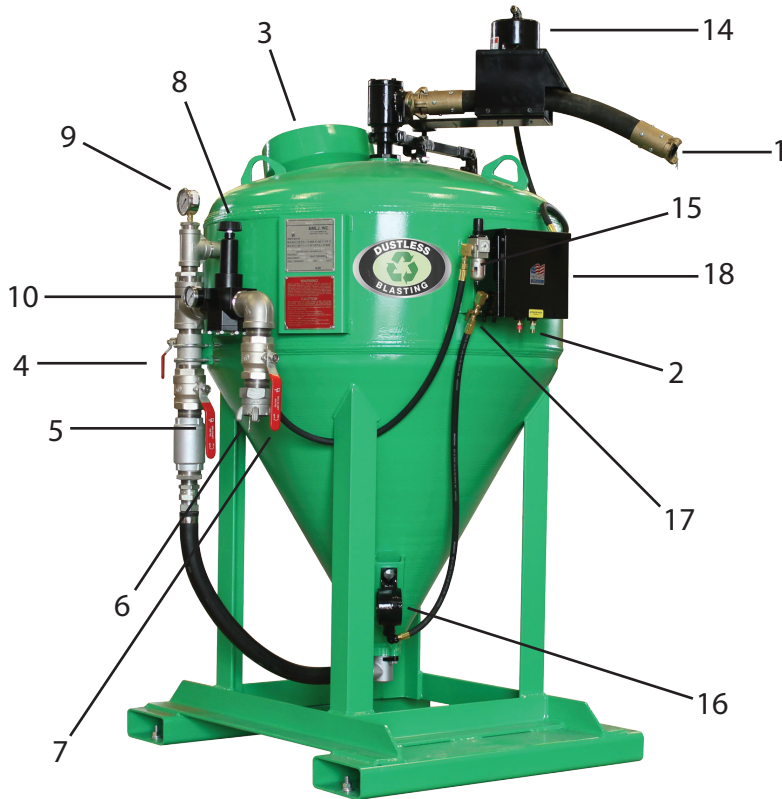




INSTALLATION, OPERATING AND MAINTENANCE DIRECTIONS FOR  
**DUSTLESS BLASTING MODELS**  
 DB1500 & DB3000

*(The following information is given with your best interest in mind. Do not jeopardize the machine operation and result by lack of attention to these directions.)*



- |                                |                                 |                            |                    |
|--------------------------------|---------------------------------|----------------------------|--------------------|
| 1. Pinch Hose                  | 6. Compressed Air Inlet         | 11. Abrasive Control Lever | 16. Vibrator       |
| 2. Control Box Input Couplings | 7. Popup Gasket Valve           | 12. Abrasive Control Knob  | 17. Vibrator Valve |
| 3. Fill Port                   | 8. Pressure Regulator           | 13. Bottom Flange          | 18. Control Box    |
| 4. Blowdown Valve              | 9. Compressed Air Pressure Gage | 14. Pinch Valve            |                    |
| 5. Air Inlet Valve             | 10. Blast Pressure Gage         | 15. Moisture Trap          |                    |

**STEP 1. Compressed air supply hose size and lengths from air compressor to Dustless Blasting machine.**

50' or shorter length - use at least 1" ID hose.\*\*\*  
 75' to 100' lengths - use at least 1 1/4" ID hose.  
 125' and longer lengths - use at least 1 1/2" ID hose.

\*\*\*If available hose is used and is smaller than sizes specified (against recommendation) use (2) two hoses - example, (2) two 3/4" ID instead of (1) one 1" ID. Connect hoses to machine and air compressor with "Y" pipe fittings - do not use any fittings smaller than 1 1/4" pipe size. Connect fittings to machine with 1 1/4" pipe nipple and bushing fittings to receive hose couplings. Connect air line to 1 1/2" or 2" air compressor receiver openings - not 3/4" opening.

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. Connect hose to *feature 6*, compressed air inlet.

## STEP 3. Connect coupled blast hose to pinch hose, *feature 1*.

## STEP 4. Connect remote control air supply hose to control box.

Connect the color coded twin line to the corresponding male connectors on the bottom of the control box, *feature 2*. Connect the opposite end of the dual line hose to the 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. To fill the machine with abrasive.

Machine will use any type of abrasive or cleaning medium which sinks in water and is not water soluble. You must **ADD WATER BEFORE ABRASIVE**. Make sure the popup gasket valve, *feature 7*, is closed so that the fill port is open. Open the overflow valve, (*not pictured, but it is blue and has a warning tag*), and fill the machine with water until valve overflows, then close valve and add media. Media capacities:

<b>Dustless Blaster Capacity Chart</b> (Based on media weighing 72 lbs/ft <sup>3</sup> )						
Model	DB150	DB225	DB500	DB800	DB1500	DB3000
Water (gallons)	5	10	20	30	75	150
Abrasive (lbs)	50	100	200	300	750	1500
Rust Inhibitor	7 oz	14 oz	28 oz	42 oz	100 oz	1.5 Gallons

Abrasive or cleaning medium should be no longer than one-third the diameter of the blast nozzle used - to avoid nozzle plugging. Pour screened, dry abrasive into top of machine (abrasive screen inside funnel is designed to keep foreign matter

## STEP 6. To adjust abrasive supply.

Loosen abrasive adjustment screw, *feature 12*.

Pull abrasive control lever, *feature 11*, upward which will raise outlet pipe. Raise pipe until approximately 1/2" of unpainted pipe is visible. 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 and set lock nut thereon, which will lock the abrasive control lever setting.

## STEP 7. To adjust blast pressure.

Tighten or loosen knob on the pressure regulator, *feature 8*. Use the chart below to get an idea of what pressure to use. The chart below contains approximate guidelines, experiment until you find the right blast distance and pressure. The closer the nozzle is to the blast surface, the smaller the blast pattern, the harsher the effect, and the faster a coating will be removed. Start far away and come in slowly to insure you don't cause damage to the substrate.

Material	Fiberglass Boats	Brick Walls	Metal Auto Bodies	Thick Aluminum	Thick Steel
Blast Pressure	70 PSI	100 PSI	100-120 PSI	120-150 PSI	150 PSI
Blast Distance	18-24 In.	18-24 In.	12-14 In.	12-20 In.	10-14 In.
Blast Pattern	Large	Large	Medium	Medium-Large	Medium

## STEP 8. To begin the blast cleaning operation.

Open the popup gasket valve, *feature 7*, to close the fill port. Make sure the blowdown valve, *feature 4*, is closed. Open air inlet valve, *feature 5*, fully.

Push in safety button and depress remote control activator valve lever, continuously. A second or two will pass before blasting begins.

## STEP 9. To stop the blast cleaning operation.

Close the air inlet valve, *feature 5*, and open air pressure release (blow-off) valve, *feature 4*. Said actions will shut-off compressed air to the machine, and release the air pressure from the machine.

## STEP 10. Blowing Out Blast Hose.

Push abrasive shut-off lever, *feature 11*, towards machine, which lowers outlet pipe to a seated position and permits only compressed air to be discharged from the blast nozzle. If excessive abrasive has crowded around the outlet pipe it may be hard to lock the abrasive lever. A twisting of the pipe, by means of moving the outlet elbow, will permit the pipe to be lowered.

## **MAINTENANCE**

### **MOISTURE TRAP ATTENTION**

Keep the black screw on the Moisture Trap, *feature 15*, slightly open to drain the liquid from the trap area. Only open it slightly, allowing some air to be released.

### **CONTROL BOX ATTENTION**

The control box has its own pressure regulator. This is already set properly from the factory, and should not be tampered with under normal circumstances. However, if it gets changed accidentally, make sure you readjust it to 90 PSI.

### **VIBRATOR ATTENTION**

During blasting, the vibrator valve, *feature 17*, must be open. Adjust it so that you feel maximum vibration at the head of the machine. This will insure that all media gets "shaken" to the bottom of the tank. You should only need to adjust it once and then you can leave it alone, there is no need to close it.

### **PROTECTION FOR INSIDE THE MACHINE**

No damage to the machine will occur by leaving water and media inside of it. However, if water is left in the machine longer than 24 hours it will begin to smell foul. For this reason, when the machine will not be in use for a long time, it is recommended that you remove water and sand from machine either by blasting it out or by removing the bottom flange, *feature 13* and allowing it to drain. Refer to the user's manual for instructions on how to do this.

### **CHANGE OR STOPPAGE OF ABRASIVE FLOW - assuming proper installation, air pressure and abrasive.**

Check media quality. Your machine is designed to run with clean, high quality abrasive. Dirt will turn into mud, clay will harden, etc.

Check blast nozzle - if foreign matter should accidentally enter the machine, a stoppage can occur. **FULLY DEPRESSURIZE MACHINE FIRST!**

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

### **- 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.**

**DUSTLESS BLASTING** is an **MMLJ, Inc. Company**, the original manufacturer of blast equipment, and still the only to offer a lifetime warranty on tank assemblies. Built in America with quality. Patent since 1941.

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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, apron, 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. Company, 5711 Schurmer Road Houston TX 77048  
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