



DB1500[®] Mobile XXL User Manual

Warning: Do not use this equipment until you have read the manual and understand the contents. *User safety is always a top priority. However, the safety of an intended user can only be protected if outlined precautions are read and followed carefully. *International Distributors are responsible for the proper translation of this manual.



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I. INTRODUCTION

This manual covers the start up, operation, storage, maintenance, and troubleshooting, for a DB1500® Mobile XXL. Intended users must read and understand the contents of the instructions before operating their machine and its accessories. The intended user should be able to safely operate the blast machine and be aware of the hazards associated with blasting.

Proper personal protective equipment is required for the operator and any supportive personnel. This includes but is not limited to hearing protection, eye and face protection, helmet, leather gloves protecting the full forearm, safety shoes or boots. To protect from dust inhalation, NIOSH-approved air fed respirators with at least Grade D breathing air is required.

The blast pot is ASME, NB, CE, and/or PED certified. Welding, grinding, or drilling on the pot voids the National Board approval and manufacturer's warranty. Such actions may affect the dimensional integrity of the blast pot. The compressor has the required safety relief valve to prevent the rise of pressure no more than ten percent of the set MWP as required by ASME section VIII, Div. 1. The design maximum and minimum parameters shall not be exceeded. See the parameters in Figure 1 below. Be sure to read all warnings listed on the blast pot before operation. See Figure 1.1 below for more information.

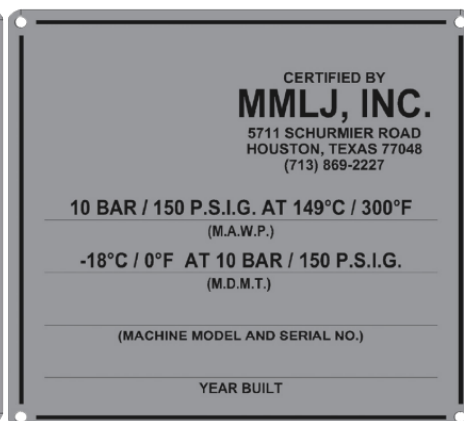
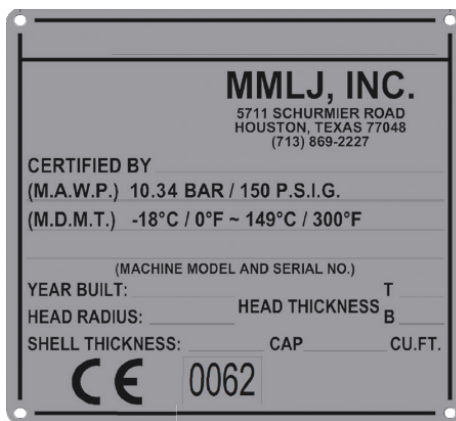


Figure 1. Name plates

Figure 1.1 Blast pot warning label

Notice Symbols

For operator safety and machine preservation, please pay careful attention to the special notices listed in this manual.

Note

A point of emphasis or reminder for operator. Can also indicate potential for minor problems

Caution

Potential for damage to equipment or problems in the outcome if statement is not closely followed

Warning

Possibility of minor injury to operator or bystanders



DANGER

Possibility of serious or fatal injury to operator or bystanders

Warranties

MMLJ, Inc. Limited Warranty

Full One-Year Warranty

MMLJ, Inc warrants each new product manufactured by us to be free from defects in material and workmanship for a period of one year from date of delivery to the original purchaser except as noted below. This one-year warranty covers the entire trailer against material and workmanship except as noted:

1. New products which have been operated in excess of rated capacities
2. Misuse, abuse or accidents
3. Items that have been pinched (air or hydraulic hose)
4. Vehicles which have been altered, modified or repaired in any manner
5. Second-hand or used vehicles
6. Wear items such as tires, battery, suspension, bearings, parking jacks
7. Products that have not been properly maintained (by the consumer) In no way shall the manufacturer be held liable for consequential damages such as rentals of substitute vehicles, loss of profits, downtime, or other commercial losses.

MMLJ, Inc's Obligation

Our obligation under this warranty is to repair or replace (at MMLJ, Inc.'s option) at no cost to the end user, any warrantable part proven defective within the time limit of this warranty at our factory. We must receive immediate notification of a defect and no allowance will be made for repairs without our prior consent or approval. Manufacturer does not pre-authorize any dealership for warranty work. This warranty does not cover shipping charges; export taxes, custom duties and taxes, or any other charges associated with transportation of the parts or products. You must prepay any shipping charges, export taxes, custom duty taxes, or any other charges associated with transportation of the parts or product. In addition, you are responsible for insuring any parts or product shipped or returned. You assume the risk of loss during the shipment. You must present MMLJ, Inc. with proof-of-purchase documents (including the date of purchase). Any evidence of alteration, erasure, or forgery of proof-of-purchase documents will be cause to void this warranty.

Defective parts must be returned within twenty days of receipt of replacement parts or credit may not be given for the replacement parts and an invoice may be issued.

This warranty is in lieu of all other warranties, expressed or implied by law or otherwise, and there is no warranty of merchantability or fitness of purpose. Federal regulations require motor vehicle manufacturers to maintain a record of original owners of their equipment. Our warranty registration fulfills this requirement. This warranty was written under the laws of Texas, USA.

Blast Pot Limited Lifetime Warranty

This warranty applies only to pressure vessels manufactured by MMLJ, Inc. under the Dustless Blasting[®] brand name. This product is backed by a limited lifetime warranty, excluding only expendable parts such as gauges and valves (which are covered by manufacturers other than MMLJ, Inc.) and paint. This Limited Warranty does not extend to any product that has been damaged or rendered defective (a) as a result of lack of maintenance, accident, misuse, or (b) abuse by the use of parts not manufactured or sold by MMLJ, Inc. and/or (c) by modification or improper installation of the product.

Third Party Warranties

For parts that are not covered by MMLJ, Inc., please contact our office and report the defect. MMLJ, Inc. will then proceed with the warranty process for the affected item on your behalf. All items not covered by MMLJ, Inc. will fall under a limited one year warranty free of manufacturer defects.

Warranty Claims

MMLJ, Inc reserves the right to modify, without notice, specific designs, specifications and policies (including warranty policy) as they see fit without obligation in regards to products previously sold. The manufacturer also reserves the right to discontinue any model or policy without obligation in regards to previously sold products.

Trailer Limited One Year Warranty

MMLJ, Inc. (under the name Dustless Blasting®) warrants the product you have purchased is free from defects in materials or workmanship under normal use during the warranty period. Your sales receipt, showing the date of purchase for this product, is your proof of the date of purchase. MMLJ, Inc warrants the trailer main frame (frame, crossmembers, gussets, and tongue) to the original licensed owner to be free from defects in material and workmanship with the following conditions: This LIMITED WARRANTY does not cover the hitch (ball, pintle), tires, wheels, axles, suspension, lights, wiring, paint, or any other features or options outside the scope of the trailer main frame weldment. Limited Warranty is to the original owner and is non-transferrable. It is limited to the first accident or overloading. This warranty does not cover: 1. Products which have been operated in excess of rated capacities 2. Misuse, abuse or accidents 3. Vehicles which have been altered, modified or repaired in any manner

Compressor Warranty

Compressors used as part of a Dustless Blasting® mobile unit are covered under the Manufacturer's Limited Warranty. The compressor itself is not a product of MMLJ, Inc. and MMLJ, Inc. will not be held responsible for the repair or replacement of said product. Original purchaser must verify that MMLJ, Inc. has submitted ELGI warranty registration on your behalf. Please refer to the Manufacturer's Product Limited Warranty for more information regarding your compressor warranty.

Tire Manufacturer Warranty

Tires used as part of a Dustless Blasting® mobile unit are covered under the Tire Limited Warranty. The tires themselves are not a product of MMLJ, Inc. and MMLJ, Inc. will not be held responsible for the repair or replacement of said product. Original purchaser must verify that MMLJ, Inc. has provided you with a tire warranty registration card.

Water Pump Warranty

Water pump used as part of a Dustless Blasting® mobile unit is covered under the Water Pump Limited Warranty. The pump itself is not a product of MMLJ, Inc. and MMLJ, Inc. will not be held responsible for the repair or replacement of said product. Original purchaser must verify that MMLJ, Inc. has provided you with an All-Flo warranty registration card. Please refer to the All-Flow Warranty for more information in regards to your water pump warranty.

Axle Manufacture Warranty

Axles used as part of a Dustless Blasting® mobile unit are covered under the manufacture axle Limited Warranty. The axles are not a product of MMLJ, Inc. and MMLJ, Inc. will not be held responsible for the repair or replacement of said product.

Warranty Claims

MMLJ, Inc must receive immediate notification of a defect in material or workmanship in order to expedite the warranty service.

Defective parts must be returned within 20 days of receipt of replacement parts or you will be invoiced for those parts. MMLJ, Inc does not pre-authorize any dealership for warranty work. These procedures must be followed or the warranty will be null and void. Product on which the serial number has been defaced or removed is not eligible for warranty service. Should any product submitted for warranty service be found ineligible, an estimate of repair cost will be furnished and the repair will be made if requested by you upon MMLJ receipt of payment or acceptable arrangements for payment. Except, as expressly set forth in this warranty, MMLJ makes no other warranties, expressed or implied. This is the only express warranty applicable to Dustless Blasting® branded products. MMLJ does not assume, nor authorize anyone to assume for it any other express warranty. If directed by the warranty and service department to return components, ship items to:

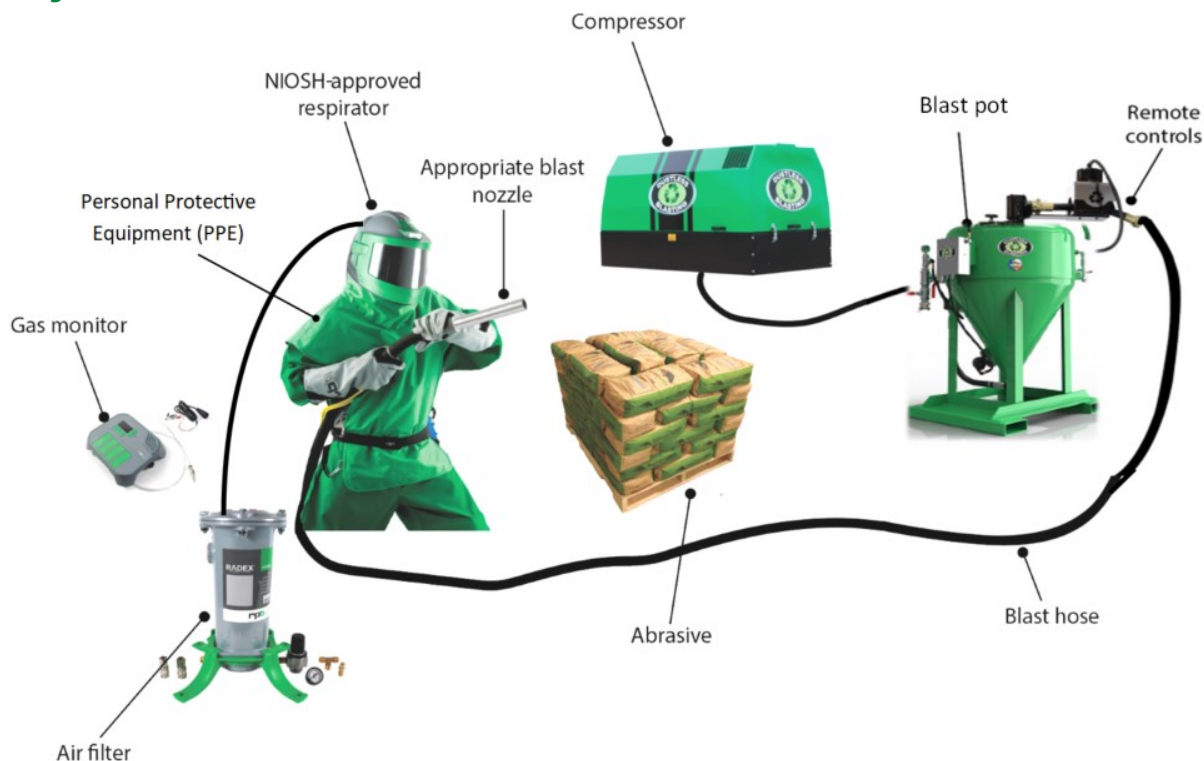
5711 Schurmier Rd
Houston, TX 77048

For more warranty information, visit www.DustlessBlasting.com/legal/warranties.

Please call our warranty department for any questions on warranties or warrantied items.

Phone: (281) 869-3421 Email: Support@DustlessBlasting.com

Safety Overview



Remote controls. Never attempt to bypass the remote (safety) controls on the blast pot setup. A few important safety points to ensure are in proper working condition are the deadman control, pinch valve, and pinch hose.

Air filter. Used with NIOSH-approved respiration equipment to remove air contaminants. Follow the manufacturers requirements for replacing these filters as necessary. Air filter does not detect or remove carbon monoxide.

Gas monitor. When using a respirator, always be sure to have a working gas monitor. This helps to protect against potential for carbon monoxide poisoning and monitoring levels of other gases, such as oxygen, with the operator's NIOSH-approved respirator.

NIOSH-approved respirator. Respirators can only give a satisfactory level of protection when they are selected, fitted, used, and maintained according to the manufacturer's written instructions, NIOSH guidelines, and OSHA requirements. Replace helmet lens and filters frequently.

Appropriate blast nozzle. Check the nozzle for wear before use. Be sure the selected nozzle is appropriate for the amount of air pressure in use.

Abrasive. Media must be suitable for blasting and the conditions the operator chooses to blast in i.e. wet or dry blasting. Do not use abrasives with more than one percent crystalline silica. Be sure to check an abrasive's Safety Data Sheet for more information on media contents.

Blast pot. The DB1500® is designed to blast for approximately two to three hours. Inspect the machine, nozzles, hoses, and couplings before operating. Make sure to ground the equipment before use to avoid the risk of electrical shock. Wire all kwik-fit couplings together. Keep the machine in safe, operable condition. Read all warnings on the pot before operation.

Compressor. Air compressor should be properly maintained and sized to provide adequate CFM for the tools in use. Excessive compressed air pressure can cause a blast machine to rupture. Be sure to read and understand the compressor user manual before use.

Blast hose. Avoid crimping the blast hose when using. Check the hose for wear before use. Make sure all safety pins are in place when attaching a blast hose. Pressure can cause the hose to disconnect and can inflict serious injury or death.

Protective Equipment (PPE). Follow all OSHA guidelines for PPE before, during, and after the blasting process.

Mobile Safety Overview



Remote controls. Never attempt to bypass the remote (safety) controls on the blast pot mobile setup. A few important safety points to ensure are in proper working condition are the deadman control, pinch valve, and pinch hose.

Operator. The mobile operator must read and understand the manual and special notices before operating or transporting the mobile machine or trailer. Failure to consider the risks of operation or transportation can result in injury or death.

Trailer. Never haul the trailer in unsafe weather conditions, on unsafe surfaces, or dangerous grades. This trailer is not tested or intended for human or animal transportation. Park in a controlled, safe environment on level ground. Be aware of operation surroundings when parking and blasting.

Trailer safety controls. Always make sure the trailer jack is in proper position before attempting to move the mobile unit. Connect the emergency brake clip wire when transporting the trailer. Failure to do this can result in significant damage to the machine. Be sure to periodically test the trailer lights to make sure they are functioning properly.

Abrasive. Media must be suitable for blasting and the conditions the operator chooses to blast in i.e. wet or dry blasting. Do not use abrasives with more than one percent crystalline silica. Be sure to check an abrasive's Safety Data Sheet for more information on media contents.

Blast pot. Make sure the blast pot is empty before attempting transportation. Use lift equipment that is suitable for weight heavier than the machine and attachments. Do not blast while the trailer is in motion.

General transportation. See the specific transportation vehicle owner manual for tow capacity. Never attempt to tow a mobile trailer with a vehicle not graded for the weight of the mobile. Ensure the trailer weight is never overloaded and always balanced on level ground.

Load distribution. Never overload the trailer. If there is media stored on the trailer, the water tank must be filled to evenly distribute the weight.

Protective Equipment (PPE). Follow all OSHA guidelines for PPE before, during, and after the blasting process.

II. ABRASIVES



DANGER: No dust is safe to breathe. Abrasives may contain toxic materials that are hazardous to persons in the blasting area when inhaled.

Do not use abrasives containing more than one percent crystalline (free) silica. Inhaling crystalline silica sand can cause silicosis, lung cancer, and breathing problems to exposed persons.

Slags can contain trace amounts of toxic metals such as arsenic, beryllium, and cadmium and have the potential to cause lung disease.

Be sure to obtain a Safety Data Sheet (SDS) for the chosen blasting abrasive and identify the potential for any hazardous substances.

Selecting an Abrasive

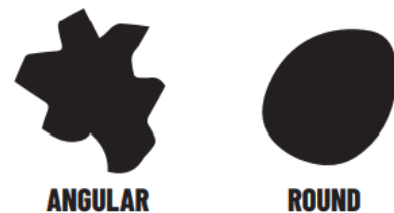
Caution:

Use abrasives or media specifically manufactured for blasting. Consider the following information on choosing abrasives carefully as the type of abrasive can affect blasting efficiency, surface finish, and machine integrity. Check local environmental guidelines for potential restrictions of certain abrasive use before blasting. If blasting an unfamiliar surface, test abrasive selection on a small portion of the surface.

Abrasive shape

Angular. This type of abrasive has irregular edges that create a textured surface in the blasting substrate. A textured or anchored surface is ideal for paint or finishes.

Round. Smooth edges on a rounded shape abrasive will leave a surface smooth. When the goal of blasting is to clean a surface without needing to create texture, a smooth shape will give the desired profile.



Abrasive size, density, and hardness

Size. Most abrasives, or media, are measured by their mesh size. An abrasive's mesh size is defined by the number of holes in a screen the media can pass through per square inch. Refer to Figure 2 for a visual representation of common mesh sizes.

| | Looks Like |
|--------|------------|
| 20/40 | |
| 40/70 | |
| 60/100 | |

Figure 2. Common mesh sizes

Density. Knowing the weight or bulk density of an abrasive can help an operator choose the appropriate abrasive for the job. The density is measured in pounds per cubic foot, so an abrasive with a bulk density of 75 lb/ft³ is less dense than a sample of 145 lb/ft³. The higher the bulk density, the more impact the abrasive will have on the blasted surface.

Hardness. Generally, a harder abrasive will impact the blasted surface profile more than a softer abrasive. A softer media, such as organic materials and plastics, is sufficient for removing dirt, oil, grease, and paint without damaging the target surface. An abrasive's hardness may be measured in a couple ways. A common quantitative figure comes from the Mohs hardness scale. The media will fall on a scale of 1-10. 1 being the softest media and 10 being the hardest.

Note: Choosing a coarser media will not always increase productivity. The user should consider mesh size, density, and hardness of an abrasive when factoring productivity and end surface goal.

Media Comparison Charts

Selecting the appropriate abrasive for the job is important to maintain efficiency, conserve media, and protect the integrity of the blasted surface. Figure 3 and Figure 4 below show a few examples of potential media an operator may choose to use. Dry blasting specific media cannot be used in wet blasting as the listed abrasives do not sink in water, a key parameter for successful wet blasting.

The below figures are arranged from most dense to least dense media. Additionally, each abrasive has a listed hardness value, surface profile, surface removal ability, and velocity (how fast or slow the media travels from the blast pot) description.

Figure 3. Dry Blasting Abrasive

| | Description | Bulk Density | Hardness | Surface Profile | Surface Removal | Velocity |
|---------------------------|--|------------------------|----------|-----------------|-----------------|-------------|
| Sugar Sand | Round media used for cleaning and stripping | 100 lb/ft ³ | 6 – 7 | High etch | Yes | Medium fast |
| Sodium Bicarbonate | Medium-sized abrasive, creates a smooth surface when stripping | 61 lb/ft ³ | 2.5 | No etch | No | Slow |
| Walnut Shells | Angular, organic for mildly powerful stripping without damage to the blast surface | 50 lb/ft ³ | 4.5 – 5 | Low etch | Very slight | Medium slow |
| Corn Cob | Organic, soft media ideal for soft surfaces like wood | 40 lb/ft ³ | 4 – 4.5 | No etch | No | Slow |

Figure 4. Wet or Dry Blasting Abrasive

| | Description | Bulk Density | Hardness | Surface Profile | Surface Removal | Velocity |
|--------------------------|---|------------------------|-------------|------------------|-----------------|-------------|
| Steel Grit | Angular for fast stripping and aggressive cleaning | 260 lb/ft ³ | 40 – 65 HRC | High etch | Moderate | Medium fast |
| Steel Shot | Spheres designed for polishing and peening | 230 lb/ft ³ | 40 – 51 HRC | No etch | No | Medium |
| Aluminum Oxide | Sharp, long lasting media for fast etching and profiling | 110 lb/ft ³ | 8 – 9 | High etch | Yes | Fast |
| Blast Sand | Angular, sharp edges to cut into the surface and leave an anchor profile | 100 lb/ft ³ | 7 | High etch | Yes | Medium fast |
| Crushed Glass | Free from crystalline silica, 100% recycled glass, efficient, cost-conscious | 100 lb/ft ³ | 5 – 6 | Medium-high etch | Slight | Fast |
| Glass Beads | Round, soda-like glass produces a bright, satin finish. | 95 lb/ft ³ | 5 – 6 | No etch | Slight | Medium fast |
| Silicon Carbide | Hard, powerful cutting media, ideal for stone, glass, and tough surfaces | 90 lb/ft ³ | 9 – 9.5 | Very-high etch | Yes | Very fast |
| Garnet | Angular, hard media commonly used in place of silica sand | 85 lb/ft ³ | 7.5 – 8.5 | Very-high etch | Yes | Very fast |
| Coal Slag | Angular byproduct of coal, used for removal of coatings from steel and concrete | 85 lb/ft ³ | 6 – 7 | High etch | Yes | Medium fast |
| Plastic Abrasives | Soft media for automotive and aerospace applications | 50 lb/ft ³ | 3 – 4 | No etch | Slight | Medium |

Abrasive fill levels

Note: The DB1500[®] has a maximum hold of:

- 75 gal of clean water
- 750 lb of abrasive (~40/70 mesh size)
- 100 oz of Rust Inhibitor

The blast pot does not require a maximum fill for operation. If the maximum fill is not needed for a job, fill the machine according to estimated blast time. Use Figure 5 below for an approximate reference.

| | Blast Time | Water | Abrasive | Rust Inhibitor |
|---------------------------|------------|--------|----------|----------------|
| DB150[®] | ~15 min | 5 gal | 50 lbs | 7 oz |
| DB225[®] | ~30 min | 10 gal | 100 lbs | 14 oz |
| DB500[®] | ~60 min | 20 gal | 200 lbs | 28 oz |
| DB800[®] | ~90 min | 30 gal | 300 lbs | 42 oz |
| DB1500[®] | ~2-3 hours | 75 gal | 750 lbs | 105 oz |

Figure 5. Fill guide for blast pots

III. PREPARING FOR BLASTING

Personal Protective Equipment



DANGER: Failure to maintain proper PPE can result in the serious injury or death of the operator or bystanders. Loud noise generated by blasting can cause hearing damage. Everyone in the area must use proper hearing protection. It is the employer's responsibility to train employees to identify hazardous substances and to provide suitable policies, procedures, monitoring, recordkeeping, and PPE.

The Occupational Safety and Health Administration (OSHA) recommends abrasive blasting operators wear the following PPE while working:

- Hearing protection
- Eye and face protection
- Helmet
- Leather gloves that protect to full forearm and aprons (or coveralls)
- Safety shoes or boots

Additionally, operators and support personnel in the blasting area should wear proper respiratory protection.



DANGER: Breathing air must meet OSHA class D standards. Using a breathing air source that does not meet class D standards can cause asphyxiation and death. Be sure to use a high-temperature alarm and carbon monoxide monitor. Always make sure the respirator hose is not connected to a line that supplies non-breathable gasses. Before breathing air, be sure to test the content of the respirator line. Failure to follow these procedures can result in serious injury or death to the user.

Respirators should:

- Cover the head, neck, and shoulders
- Be approved by the National Institute for Occupational Safety and Health (NIOSH)

Masking and Containment

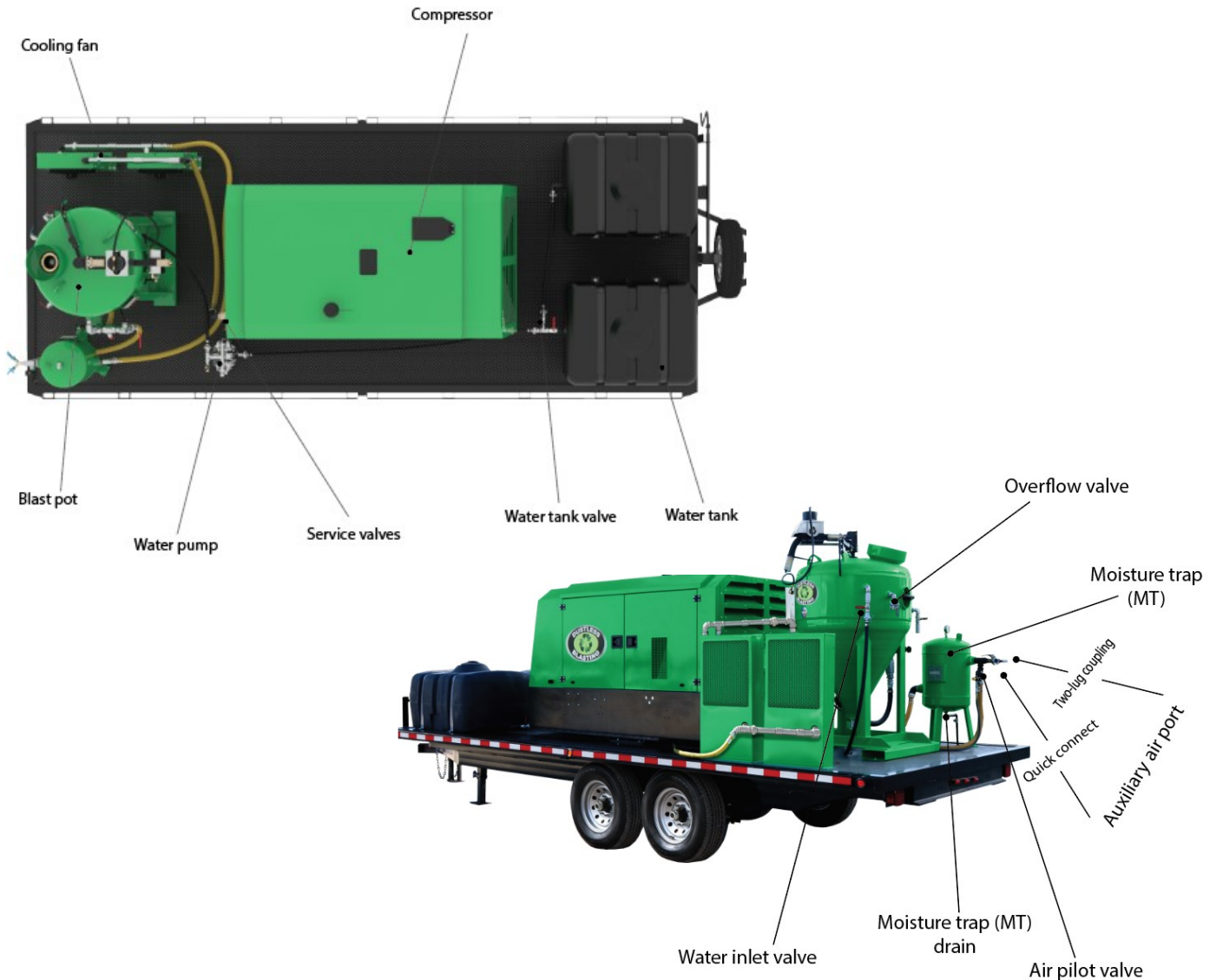
Masking

Cover or mask off items such as glass, chrome, rubber seals, wiring, electrical, or moving mechanical parts that look delicate or should remain clean and dry. Tape is a good solution for covering small pieces and parts.

Containment

Capture the blasting byproducts using a heavy tarp. Be sure to weigh down the corners of the tarp for efficient containment.

DB1500® Mobile XXL Overview



DB1500® Blast Pot

- 15 ft³ capacity
- Holds 750 lb of abrasive per fill
- 76" H x 48" W x 46" D
- Operating pressure of 30-150 PSI
- Texas Edition: internal parts are manufactured of hardened steel
- Lifetime warranty

"XXL" Trailer

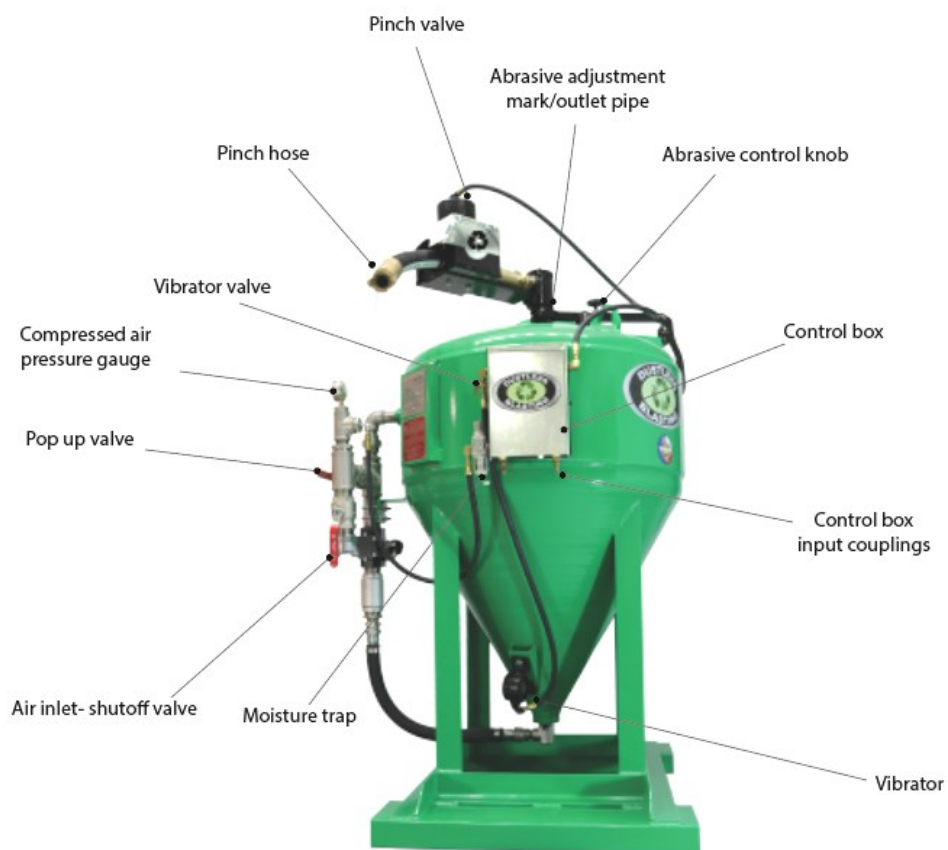
- Deck dimensions: 20' L x 8'6" W
- Total trailer dimensions: 24'6" L x 8'6" W
- DOT compliant LED lights
- Two 7200 lb drop axles
- Dual axle electric brakes
- Electric breakaway system
- Eight ply tires and a full-size spare
- 10,146 lb dry weight

Included Accessories

- 100 ft blast hose and electric line
- Redhead electric deadman control
- Tungsten carbide nozzle (SLV #5)
- Fill funnel with screen
- (2) 100-150 gal water tank
- 48 GPM water pump
- ADCS-2500 air drying and cooling system

Model DB1500[®] Blast Pot

The figures below show commonly referenced parts of the DB1500[®] blast pot mentioned in this manual.



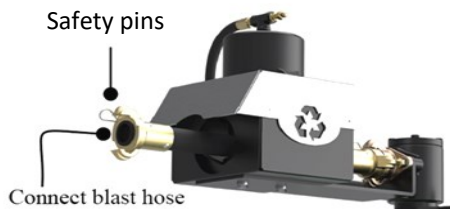
IV. BLAST POT START UP

i. Connect the Blast Hose and Electric Line to the Blast Pot

- 1 Attach the blast hose to the pinch hose at the top of the blast pot and insert the safety pins.

Caution:

When selecting the most productive nozzle for the job, there are two main points to consider. Check what volume of air the compressor in use can supply per minute (CFM) and the desired nozzle pressure (PSI) to maintain during blasting. Be sure to choose the appropriately sized nozzle for a specific compressor and job to avoid unnecessary damage to the equipment or blasted surface.



- 2 Screw on the appropriate blast hose nozzle. The nozzle size is based on the air compressor size.

- 3 Connect the electric line of the redhead electric deadman controller to the control box on the back of the blast pot.



ii. Fill the Blast Pot with Water

Note: The water storage tank on the mobile trailer must be filled before attempting to fill the blast pot. Before travelling with a filled water storage tank, be sure to implement a safe counterweight to balance the machine.

- 1 Open the water tank valve.



Figure 6. Valve is pictured in the open position

- 2 Open the water inlet valve.



- 3 Open the overflow valve.



- 4 Close the compressor service valve, close the air inlet-shutoff valve, and open the blow down valve.

Caution:

Reference the instruction manual for the selected compressor model before operating.

Allow the compressor to idle and warm up for 15-30 seconds once it is turned on.

- 5 Turn on the compressor.

- 6 Once the compressor has idled for 15-30 seconds, slowly open the compressor service valve.

- 7 Activate water flow to the pot by opening the air pilot valve.



Open air pilot valve



Closed air pilot valve

Note: If dry blasting, be sure to flip on the cooling fan of the mobile unit. See page 25 for more information on dry blasting start up.

- 8 Fill the blast pot with clean water until the overflow valve starts to drain.
- 9 Close the air pilot valve to stop the flow of water into the blast pot
- 10 Close the overflow valve when water stops draining from the machine. Then close the water inlet valve and the water tank valve.

iii. Fill the Blast Pot with Abrasive



DANGER: Do not use abrasives with more than one percent crystalline silica. Breathing crystalline silica dust can cause silicosis, a potentially fatal and damaging lung disease. Refer to the abrasive's Safety Data Sheet (SDS) to identify potentially toxic substances in the media. Always wear appropriate NIOSH-approved respirators throughout the blasting process to help prevent potential serious injury or death.

- 1 Open the fill port by moving the pop up valve to the closed position as seen



Figure 4.1 Pop up valve in closed position

- 2 Pour in a predetermined amount of abrasive.

Caution:

Before pouring abrasive into the pot, open the handway to ensure there is no buildup on the sides of the pot.



- 3 If Rust Inhibitor[®] is needed, add it to the blast pot at this time.

- 4 Close the fill port by moving the pop up valve into the open

Note: For detailed information on choosing the appropriate abrasive type and amount for the job, see section II of this manual.

v. Pressurize the Blast Pot

Caution:

Pressurize the blast pot before starting the active blasting process. When the machine pressurizes, the abrasive lever on the blast pot will pop up. Adjust the operating pressure based on project goals. For more information on tuning blast pressure, see subsection “Adjusting Operating Pressure” on page 24 of this manual.

Open the air inlet-shutoff valve slowly to prevent damage to the machine from too much compressed air flowing in at one time. The air inlet-shutoff valve and the blow down valve will be in opposite positions.

Note: Make sure the overflow valve and the water inlet valves are both closed before starting the procedure below.

- 1 Pull up on the abrasive lever to move the handle into the unlocked position.



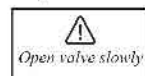
- 3 Slowly open the air inlet-shutoff valve.



Closed Position



Open Position



- 2 Close the blow down valve.



Open Position



Closed Position

- 4 To prevent build up of moisture, loosen the screw at the bottom of the filter regulator on the left of the control box and slightly open the moisture trap valve.



V. ACTIVE BLASTING



Danger: Uncontrolled blast stream and high-velocity abrasive particles can inflict serious injury. Always maintain nozzle control and point the blast nozzle in the direction of the blast surface only. Make sure the blast hose is securely fastened to prevent detaching during operation. Keep unprotected workers out of the blast area.

Ensure proper PPE is secure and in place.

Never attempt to bypass the safety controls on either the pneumatic or electric blast pot.

Do not leave a blast pot unattended. If there is an emergency, shut the machine down immediately.

Warning:

To avoid injury to the operator and damage to the machine, check the pinch hose is properly maintained before beginning the active blasting process. Use caution when connecting power to an electric blast pot control.

Begin Blasting

- 1 Check the abrasive lever is still in the unlocked position.
- 2 Make sure the operating pressure is adjusted for optimal project-based performance.
- 3 Adjust the vibrator valve so the blast pot is at maximum vibration.
- 4 Start the active blasting process. Slowly press the toggle switch of the redhead electric deadman controller.



Note: For best results, try different blast patterns and angles to find the proper workflow.

VI. BLAST POT SHUT DOWN

Caution:

DO NOT turn off the compressor when starting the shut down process. Failure to leave the compressor running will cause a backflow of air, water, and media into the system and damage the machine.

- 1 While the compressor is running, close the air inlet-shutoff valve.



Open Position



Closed Position


Keep compressor running

- 3 Close the compressor service valve.



Figure 7. Valve is pictured in the closed position

- 2 Open the blow down valve to release the pressure in the blast pot.



Closed Position



Open Position

- 4 Let the pot fully depressurize before turning off the compressor.

VII. IN PROCESS ADJUSTMENTS

There are three recommended areas of adjustment to aid in an efficient blasting process.

- Abrasive flow rate
- Blasting pressure
- Stand-off distance

Adjusting Abrasive Flow Rate

The desired flow rate of media from the blast pot may change from surface to surface. There are adjustments that can be made throughout the blasting process to maximize media flow rate. See the figure below for a visual reference on increasing/decreasing media output.

Increasing media flow

- 1 Make sure the abrasive lever is all the way down in the locked position.
- 2 Increase the amount of abrasive in the blasting output by turning the abrasive valve in quarter-turn, counterclockwise increments.

Note: Each quarter turn raises the outlet pipe 1/16" of an inch, allowing more media and water to flow from the blast pot.

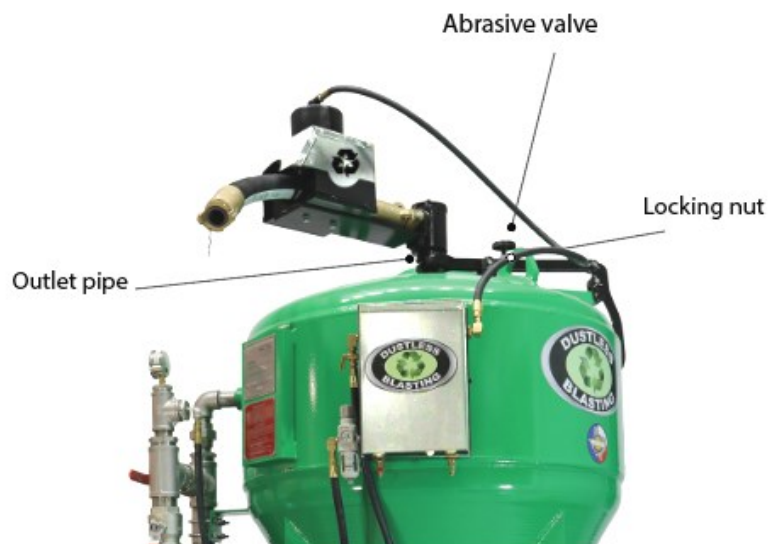
- 3 Test the effectiveness of each quarter turn on the blasted surface.

Caution:

Do not bypass the safety sleeve when adjusting the height of the outlet pipe.

Note: The media flow rate has been fully adjusted once the removal rate fails to increase.

- 4 Once the desired result is achieved, secure the outlet pipe in place with the locking nut.



Decreasing media flow

- 1 Fully depressurize the blast pot before decreasing media flow.
- 2 Decrease the amount of abrasive in the blasting output by turning the abrasive valve in quarter-turn, clockwise increments.

Note: Adjust the blast nozzle so the media stream is hitting the surface at a 45-degree angle for a more efficient technique.

Adjusting Operating Pressure

Finding the optimal pressure is important for maximizing operator efficiency while protecting the blasted surface.

To adjust the pressure:

- Rotate the pressure regulator knob clockwise to increase the pressure.
- To lower the pressure, rotate the pressure regulator knob counterclockwise.

Note: When lowering the pressure while the blast tank is pressurized, be sure to release some pressure by blasting the excess or opening the blow down valve slightly until pressure is released.



Adjusting Blast Distance

The distance the operator holds the blast nozzle from the targeted surface affects the power, speed, and blast pattern of the job. Holding the blast nozzle too far from the work surface will create a larger, less efficient pattern. Inversely, the nozzle too close to the blasted surface will give a small, overly powerful blast pattern.

Find the right balance between blast pattern and removal speed by adjusting how close or far the blast nozzle is to the work surface.

VIII. TRANSITIONING FROM WET TO DRY BLASTING



DANGER: Failure to maintain proper PPE when blasting can result in the serious injury or death of the operator or bystanders. Loud noise generated by blasting can cause hearing damage. Everyone in the area must use proper hearing protection. It is the employer's responsibility to train employees to identify hazardous substances and to provide suitable policies, procedures, monitoring, recordkeeping, and PPE.

Caution:

The DB1500[®] Mobile XXL is suitable for wet and dry blasting. To dry blast, a functioning air cooling and drying system is required.

To prepare the blast pot for dry blasting:

1. Blast all media and water out of the machine.
2. Remove the fill cap.
3. Switch on the toggle switch of the cooling fan.

Caution:

The condensing fan is important for cooling hot air travelling from the compressor. Be sure to turn this fan off when not in use to avoid draining the battery.



Toggle switch

4. Open the air inlet-shutoff valve halfway and let the air circulate through the blast pot for five to seven minutes, or until completely dry.
5. Place the fill cap back in the blast pot and pressurize the tank.
6. Run air through the machine as if blasting for two to three minutes.
7. Inspect the pot's tank to make sure there is no residual moisture.
8. Once all moisture is gone, fill the blast pot with one bag of dry blasting suitable abrasive.

Caution:

Turn the vibrator valve off on the blast pot when dry blasting to avoid media clogging at the bottom of the machine.

IX. MACHINE STORAGE

When leaving a blast pot idle for long periods of time, be sure to completely blast the water and media out of the tank or follow the storage procedure below. See Figure 9 and 10 in “Flushing the Blast Pot” on page 32 for a visual representation of the procedure below.

1. Fully depressurize machine by opening the air inlet-shutoff valve and closing the blow down valve.
2. Remove both air inlet body lugs and air inlet body lug bolts from the underside of the blast pot. See Figure 9 on page 32.
3. Remove the air inlet jet and gasket. See Figure 10 on page 32.

Note: If the air inlet jet is difficult to remove, raise the abrasive lever to assist in pulling the jet out of the blast pot. If the abrasive lever is difficult to raise, make sure there is no settled media at the bottom of the blast pot.

4. Push the air inlet body and air hose out of the way.
5. Flush out inside of equipment with water.
6. Once finished, replace the gasket, inlet jet, and lugs and bolts.

Storing the Machine in Cold Climate

Caution:

To avoid machine damage from freezing temperatures, be sure to take the following precautions.

Loosen all of the ball valves on the unit to prevent residual moisture from expanding in the valve.

Blasting in Freezing Temperatures

When the temperature is at or below freezing, the following information can help keep the blast pot running.

1. At or below freezing temperatures, add rubbing alcohol to the water tank at a 1:100 rubbing alcohol to gallons of water ratio. If more rubbing alcohol is needed, the concentration ratio can go up to a maximum of 1:20.
2. Arrange a protective tent around the pot, pump, and moisture separator and place a heater inside to warm the materials.
3. Be sure to empty the tank and blow out hoses to prevent freezing

X. TRANSPORTATION

Machine Transportation



DANGER: Make sure the blast pot is empty and the abrasive control lever is locked before attempting to transport the machine. Use lift equipment that is suitable for weight heavier than the machine and attachments. Securely attach the machine to transportation device such as a pallet or vehicle. The intended mover of the machine must be knowledgeable of the risk and trained in moving heavy machinery. Failure to consider these risks can result in injury or death.

Moving the Blast Pot and Accessories



DANGER: Do not move the blast pot on an incline, slippery, or irregular surface. Weight shifts can cause a machine to become unsteady and operator may lose control. This can cause serious injury and death. Be sure to move the blast pot and accessories in a controlled manor. Empty the blast pot before attempting to move it.

Trailer Transportation



DANGER: Never haul the trailer in unsafe weather conditions, on unsafe surfaces, or dangerous grades. This trailer is not tested or intended for human or animal transportation.

Do not blast while the trailer is in motion.

Ensure the trailer weight is never overloaded and always balanced and on level ground.

See specific transportation vehicle owner manual for tow capacity. Never attempt to tow a mobile trailer with a vehicle not graded for the weight of the mobile.

Always make sure the trailer jack is in proper position before attempting to move the mobile unit.

Park in a controlled, safe environment on level ground. Be aware of operation surroundings when parking and blasting.

Trailer Transportation and Safety



DANGER: For the protection of the operator, bystanders, and equipment, follow the safety procedure checklist below before attempting to transport the mobile unit. Use caution when connecting or disconnecting the trailer. Always securely fasten the machine to the transportation vehicle. The following recommendations should not be considered comprehensive to all possible conditions. Be sure to read and understand all safety notices in this manual before operation and transportation.

Before attempting to tow the mobile unit, be sure the following safety points are in place:

- The trailer is evenly loaded

Note: If there is media stored on the trailer, the water tank must be filled to evenly distribute the weight

- Stow and latch all toolboxes or loose tools.
- Lower and secure the compressor canopy.
- Secure all loose items with ratchet straps.
- Stow the fill funnel and accessories away.
- Coil and secure all hoses.

Trailer Hook Up Procedure

1. With the winding crank, lower the trailer onto the 2 5/16" ball hitch until the foot is just off the ground.
2. Ensure the hitch is latched, and the safety pin behind the collar is installed.
3. On the foot, remove the pin and raise the drop foot. Pin the drop foot at the highest setting.
4. Retract the foot the rest of the way with the winding crank.
5. Hook up the safety chains, making sure to cross them to make a cradle.
6. Pull the emergency brake clip out of the box.
7. Loop the emergency brake clip through the safety chain receiver.
8. Run the emergency brake clip wire through the safety pin on the hitch to prevent slack from dragging on the ground.

Caution:

Failure to connect the emergency brake clip wire can result in significant damage to the machine.

9. Plug the brake clip back into the box.
10. Plug in the lights and make sure they work before driving.

Note: Be sure to periodically test the trailer lights to make sure they are functioning properly

Moving the Blast Pot from the Trailer



DANGER: Be sure to read and understand all safety notices in this manual before operation and transportation of any machine accessories. Always use lift equipment that is rated higher than the weight of the machine and accessories. Do not move the machine on an incline or slippery surfaces.

Removing the Blast Pot

1. Make sure all water pressure and air pressure is released from the pot.
2. Remove any remaining media from the blast pot.
3. Disconnect the air hose, electric power line, and water inlet hose from the machine.
4. Remove the bolts and washers connecting the blast pot to the trailer. The bolts have a thread-lock applied and may require heating up before loosening.

Note: Make sure to put the bolts in a safe place to secure them back in place when placing the pot back on the trailer.

5. Remove the blast pot from the trailer.



DANGER: Do not attempt to remove the blast pot from the trailer without additional help. Be sure the blast pot is empty before attempting to lift or hoist.

6. Lengthen the current air hose and electric power line with extensions as needed. Be sure to reconnect them to the blast pot once extended.
7. When the blast pot is removed from the trailer, use a water hose to fill the pot instead of the water inlet hose.

Replacing the Blast Pot

1. Make sure all water pressure and air pressure has been released from the blast pot.
2. Remove any remaining media from the blast pot.
3. Disconnect the air hose and electric power line from the machine.
4. Place the empty blast pot back onto the trailer.



DANGER: Do not attempt to replace the blast pot on the trailer without additional help. Be sure the blast pot is empty before attempting to lift or hoist.

5. Once the pot is positioned correctly on the trailer, add a thread-lock to the mounting bolt threads. Install the mounting bolts and washers connecting the blast pot to the trailer. Torque these mounting bolts to approximately 75 lb-ft.
6. Reconnect the air hose, electric power line, and water inlet hose to the blast pot.

Note: Any threaded fittings removed with require a thread-sealing compound or tape when re-installed.

7. Install any safety clips that were removed when moving the blast pot.

XI. MAINTENANCE



DANGER: Do not attempt maintenance on a pressurized machine.

Control Box

Pressure regulator

The control box's pressure regulator comes factory set at 80 PSI. Make sure to adjust the regulator until the PSI is back at 80 if the pressure is ever changed.

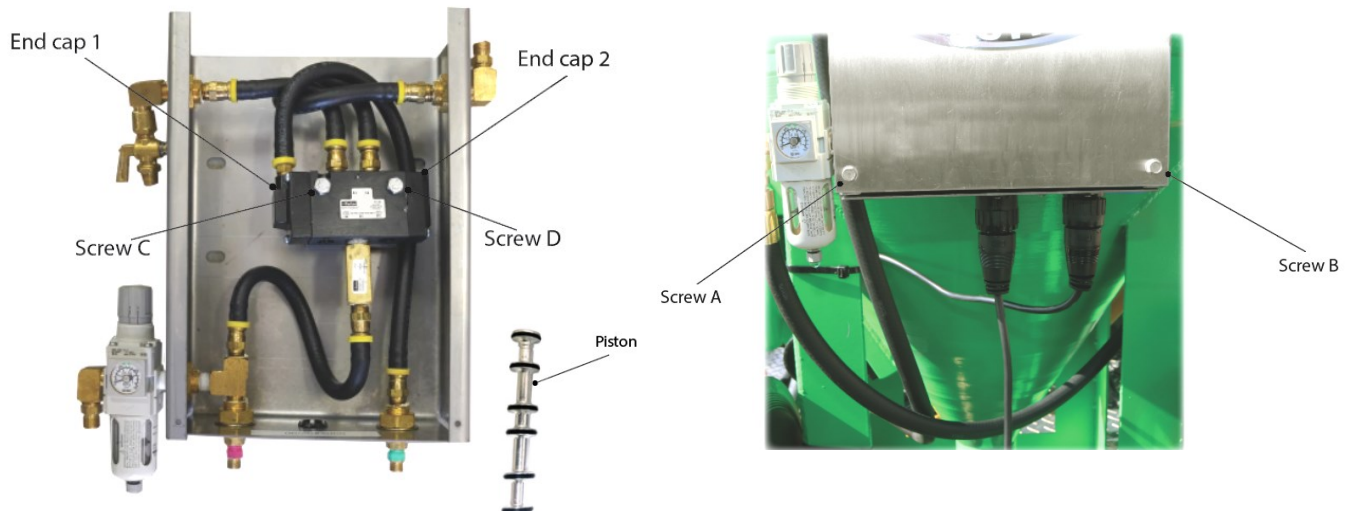
Caution: Do not attempt to change the PSI of the control box's pressure regulator from 80 PSI.

Control box Parker valve

The control box Parker valve is due for service when the shutoff time is longer than usual or the valve is not actuating properly.

To service the control box Parker valve:

1. Depressurize the machine.
2. Remove screws A and B from the front panel of the control box and remove the cover.
3. Remove screws C and D from inside the control panel to access the valve and end caps.
4. Label each end cap left or right respectively to ensure they're returned to the same spot.
5. Remove the end caps by unscrewing the two screws on each side.
6. Inspect the spring and gaskets of each end cap for signs of wear.
7. Using a long tool, such as the body of a screwdriver, push the piston out of the black box and inspect the six O-rings for wear.
8. If all the O-rings are in proper condition, lightly lubricate the rings with lithium grease.
9. Re-insert the piston and make sure the gaskets and spring are sitting properly before attaching the end caps.
10. Place the cover back on the control box.



Blast Pot Pressure Regulator

Be sure to periodically lubricate the threads on the pressure regulator knob with a lubricant such as lithium grease.

Filter Regulator

The filtered moisture and debris will collect at the bottom of the regulator if not vented through the screw. Leave the screw open slightly to let the moisture out continuously.

Blast Hose



DANGER: The blast hose, couplings, and nozzle holders should be adequately sized for the abrasive blast application. Always utilize coupling safety pins and accessories. Ensure all blast hose couplings and nozzle holders are fitted with the correct size coupling gasket or nozzle washer. Inspect the blast hose and accessories for wear before attempting to blast.

Inspect the blast hose and couplings daily for signs of wear or leaks. Check for soft spots by squeezing the hose about every six inches. Look for holes, cracks, and disintegration of the outer casting. If there are multiple soft spots, holes, or general wear, replace the blast hose.

An additional sign of wear is bubbling of the hose as seen in Figure 8 below. This can cause the hose to burst. If there are signs of bubbling present, replace the blast hose immediately. Do not try to blast.



Figure 8. Bubbling in a blast hose

Moisture Trap (MT)

The moisture trap collects water from the air running through the system. Periodically drain the trap by opening the moisture trap drain on the bottom of the system. Be sure the regulator for the water pump located on the MT is set to 90 PSI for general blasting.

Water Pump

Periodically check the torque settings on the water pump accessories are in line with the specification chart pictured. This will make sure there is minimal air loss through the water pump for optimal machine performance.

TORQUE SPECIFICATION CHART

RECOMMENDED TORQUE SPECIFICATIONS

| | 1" Pumps | Wrench Size |
|------------------------|-------------------------------|-------------|
| Manifold Bolts | 90 in-lbs (10.2 N-m) | 1/2" |
| Chamber Bolts | 60 in-lbs (6.8 N-m) | 1/2" |
| Air Valve Bolts | 40 in-lbs (4.5 N-m) | 7/16" |
| Diaphragm plate | Hand tight then 1/4 turn more | 3/4" |
| Diaphragm plate (PTFE) | Hand tight then 1/4 turn more | 3/4" |

General Blast Pot Maintenance

Flushing the Blast Pot

Regularly flushing the pot avoids potentially damaging buildup from accumulating on the walls of the machine. About once a month, follow the procedure below to properly flush the blast pot.

1. Fully depressurize machine by opening the air inlet-shutoff valve and closing the blow down valve.
2. Remove both air inlet body lugs and air inlet body lug bolts from the underside of the blast pot. See Figure 9 below.
3. Remove the air inlet jet and gasket. See Figure 10 below.

Note: If the air inlet jet is difficult to remove, raise the abrasive lever to assist in pulling the air inlet jet out of the blast pot. If the abrasive lever is difficult to raise, make sure there is no settled media at the bottom of the blast pot.

4. Push the air inlet body and air hose out of the way.
5. Flush out the inside of the equipment with water.
6. Once finished, replace the gasket, air inlet jet, lugs, and bolts.

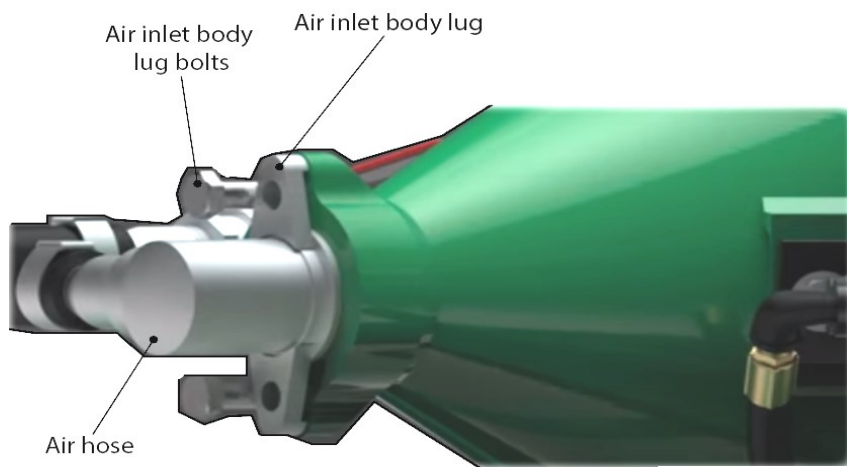


Figure 9. Underside of the blast pot

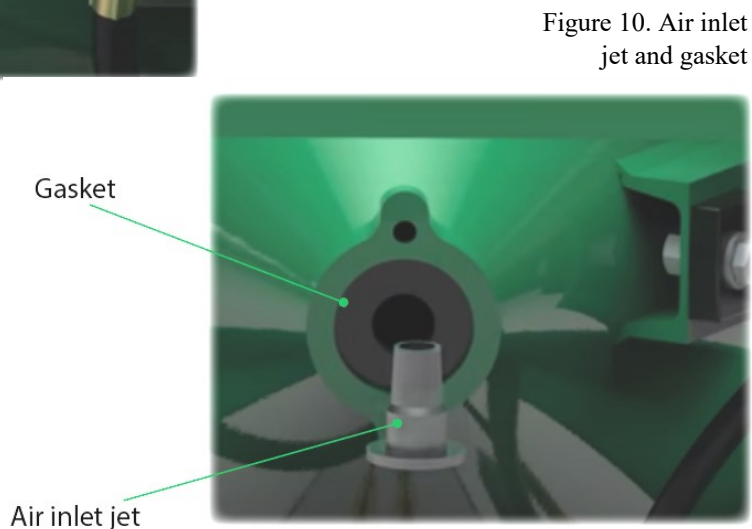










Figure 10. Air inlet jet and gasket

Blasting Wear Parts

Certain parts wear faster than others and will require regular maintenance and inspection depending on the method and abrasive used to blast. These items should be inspected for damage or wear weekly.

Note: Depending on how much dry blasting is done, these parts may have to be replaced sooner or later than the recommended time.

| | |
|--|--|
| Outlet elbow insert |  |
| Outlet elbow insert gasket |  |
| Elbow cap gasket |  |
| Air inlet jet |  |
| Air inlet jet gasket |  |
| Pinch hose coupling with screws |  |
| Hardened pipe |  |
| Blast nozzle |  |

Pinch Hose Maintenance

Warning:

Make sure to completely replace the pinch hose after about 40 hours of use or four rotations. When replacing the hose, make sure there is a flush square cut. Failure to do so could result in pinch hose malfunctioning. A dysfunctional pinch hose can result in operator or bystander injury.

Using the Pinch Hose

Rotate the pinch hose every 10-15 hours of blasting. See Figure 11 and 12 on how to rotate the pinch hose. Perform a visual and physical inspection to ensure integrity. Look and feel for signs of wear, softness, or bulges.

In the approximate 40 hours of life for the pinch hose, there are four different positions the hose will move through.

- Starting position
- Flip the hose front to back.
- Rotate 180°
- Flip the hose front to back one more time.

After these four positions, it is time to replace the hose.

Note: Do not reuse any of the four different pinch hose positions after it's allotted 10-15 hours of use.



Figure 11. Flipping the pinch hose



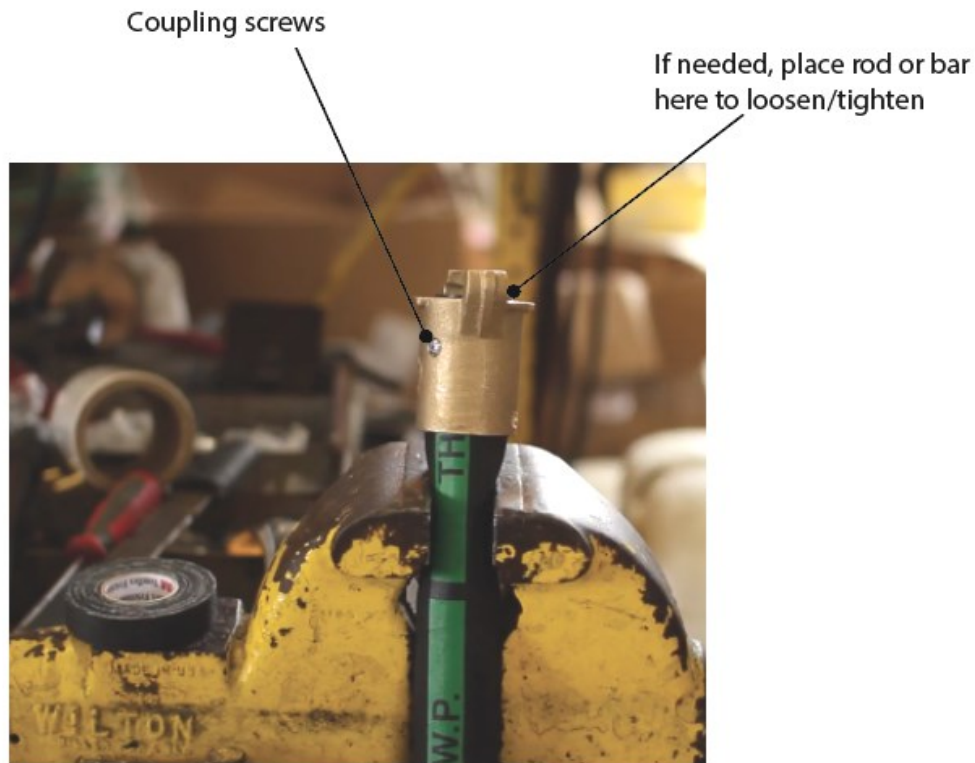
Figure 12. Rotating the pinch hose

Removing the Brass Couplings From an Old Hose

1. Remove the screw on the coupling using a Phillips head screwdriver or drill.
2. Unscrew the brass coupling from hose turning counterclockwise. A bar or rod may be needed to loosen this piece.

Attaching the Brass Couplings to the New Pinch Hose

1. Wrap the end of the hose in several layers of friction tape, slightly beyond the point the brass will cover.
2. Place the coupling over the friction tape and hose, screwing clockwise until the hose end pushes against the inside brass ridge of the coupling. A bar or rod may be used to secure the piece in place.
3. Wrap the screws with Teflon tape and screw into their designated holes until tight.



Compressor Maintenance

See the user manual of the compressor for more information on maintenance.

Contacts for Compressor Support

Rotair Compressors

ELGI

704-523-4123

APT Compressors

1-800-465-4777

constructionparts@ca.atlastcopco.com

Chicago Pneumatic

800-760-4049

Portable Air Compressors

Technical Service Hotline

Preventative Maintenance

The following daily, weekly, and monthly maintenance suggestions should be used as a minimum guide only. Comprehensive maintenance will vary based on model. Consult the compressor and engine user manuals for detailed manufacturer recommendation guidelines. The following compressor maintenance is based from recommendations for a Chicago Pneumatic (CP) model.

Daily Maintenance

The operator should perform daily checks on all parts of their machine to ensure safety and operational ability of components.

MMLJ Parts

- Inspect the pinch hose.
- Inspect the blast hose.

Note: Check for soft spots by squeezing the hose about every six inches. Look for holes, cracks, and disintegration of the outer hose casing. If there are several soft spots, holes, or general deterioration, it's time to replace the hose.

- Ensure the filter regulator is cracked open so moisture can properly drain.
- Ensure the moisture trap drain is cracked open.
- Inspect all gauges.
- Ensure gauges are at 0 when the machine is not in operation.

Compressor

- Check the compressor oil level.
- Check for oil leaks in the machine.
- Check compressor air filters.
- Check hoses and parts are in good condition.
- Clean the coolers and keep the belly of the machine clean.
- Check the alternator belt for wear.

Engine

- Check engine oil level.
- Check engine coolant level.
- Check fuel level and top up if necessary.
- Check for any fuel leaks.
- Check engine air filters.
- Check there is no cable corrosion.
- Check the air intake vacuum indicators on the engine air filter housing.

Trailer

- Inspect the tires and axles for damage or wear
- Walk around the trailer daily to ensure equipment is in operational condition.

Weekly Maintenance

General parameters for checking the items below is about every ten hours.

MMLJ Parts

- Rotate the pinch hose.
- Check the torque on the water pump bolts.
- Inspect the blast hose.

Note: Check for soft spots by squeezing the hose about every six inches. Look for holes, cracks, and disintegration of the outer hose casing. If there are several soft spots, holes, or general deterioration, it's time to replace the hose.

- Inspect the blast nozzle and the nozzle holder.
- Check the filter regulator for wear.

Compressor

- Check compressor air filter

Engine

- Check engine air filter

Trailer

- Hose off the underside of the trailer as needed to prevent contamination.

Note: In cold climates with significant snow or ice, the underside of the trailer may need to be hosed off more frequently.

Monthly Maintenance

General parameters for checking the items below is about every 40 hours.

MMLJ Parts

- Replace the pinch hose monthly, or after it has been rotated four times.
- Lubricate the threads of the pressure regulator knob with a lubricant such as lithium grease.
- Inspect and lubricate the Parker valve in the control box.
- Inspect the fill cap gasket, and clean or replace if necessary.
- Flush out the blast pot to prevent rust or buildup from accumulating inside.
- Check the filter regulator for wear.

Compressor

- Shake off compressor air intake filters or blow with compressed air, to prolong their life
- Check connecting hoses for leaks or cracks.
- Check all the mounting bolts as well as fittings to make sure everything is tight and hasn't vibrated loose.
- Inspect battery electrolyte/water level, top off just above the cell plates
- At the first 50 hours, change the compressor oil & filters according to the Chicago Pneumatic maintenance suggestions. Future oil changes should be performed every 500 hours after this. This is not a comprehensive guide, and some parts may need to be switched out before the general maintenance timeline. Be sure to check all wear parts of the compressor and change them as needed.

Engine

- Check coolant levels and top off if needed.
- At the first 50 hours, change the engine compressor oil & filters according to the Chicago Pneumatic maintenance suggestions. Future oil changes should be performed every 500 hours after this. This is not a comprehensive guide, and some parts may need to be switched out before the general maintenance timeline. Be sure to check all wear parts of the compressor and change them as needed.
- At the first 50 hours, change the fuel filter according to the Chicago Pneumatic maintenance suggestions. Future oil changes should be performed every 500 hours after this. This is not a comprehensive guide, and some parts may need to be switched out before the general maintenance timeline. Be sure to check all wear parts of the compressor and change them as needed.

XII. TROUBLESHOOTING

Media Buildup Inside the Blast Pot

Adjust the vibrator valve

On the left side of the control box, a small brass petcock valve controls the vibrator speed. Make sure this vibrator valve is open during active blasting and adjusted until there is maximum vibration of the machine head. This will ensure all of the media collects at the bottom of the tank and is able to be blasted from the pot when wet blasting. Keep the tank clear of media buildup to ensure proper machine functionality.

Abrasive Flowing Incorrectly

Check installation and air pressure

Before continuing troubleshooting, make sure the blast pot is properly installed and is operating at the appropriate air pressure.

Check media quality

If the pot was installed correctly with sufficient air pressure and proper abrasive, next check the quality of the media used. If the abrasive is not properly suited for blasting, the media could get muddy and inhibit the operation of the machine.

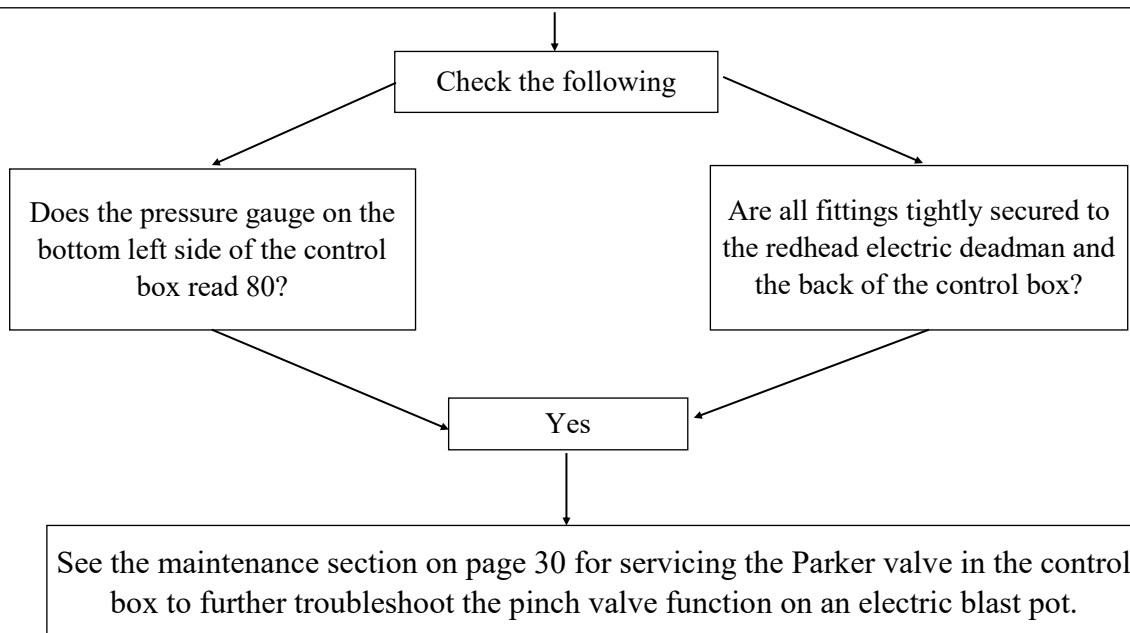
Nothing Coming from the Blast Nozzle

The blast nozzle may become clogged with debris or blast media. If this occurs, close the air inlet-shutoff valve, open the blow down valve, remove the nozzle, and check for a rock or other foreign material.

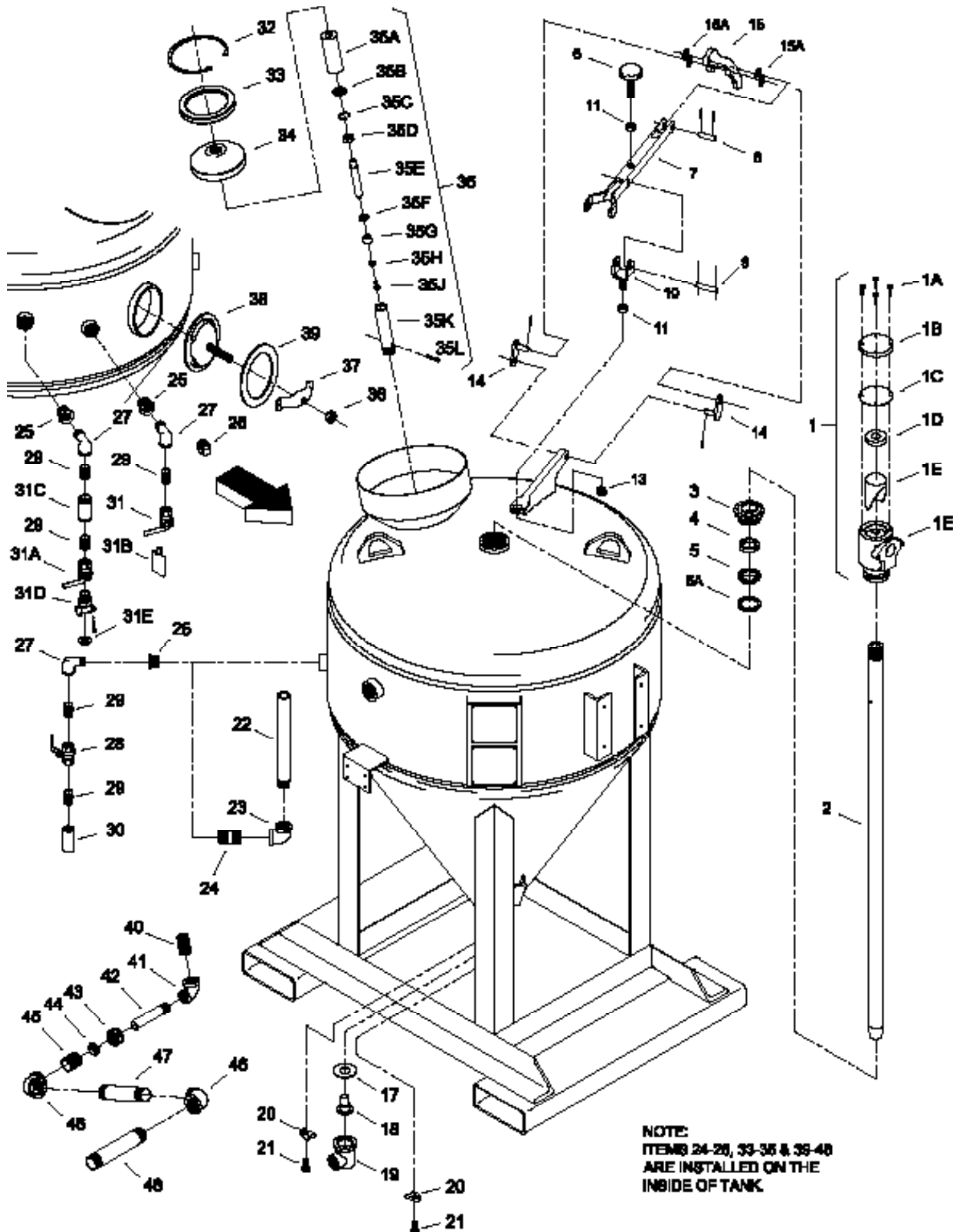
Pinch Valve is Not Opening or Closing (Electric)

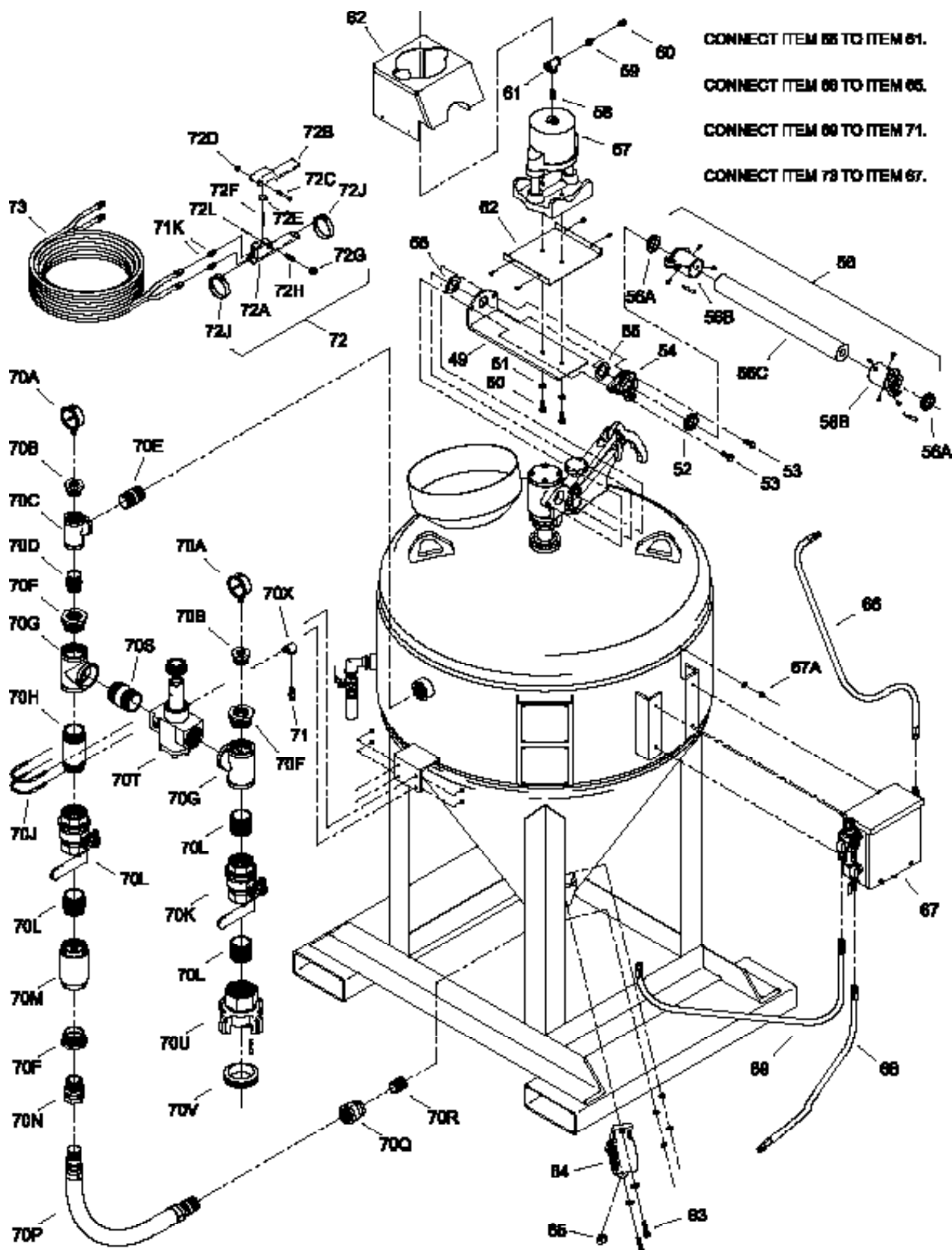
Caution:

Open the blow down valve and close the air inlet-shutoff valve before beginning the process below.



XIII. APPENDIX





| Item No. | Description | Part No. | Stock No. | Qty. |
|----------|--|------------|------------|------|
| 1 | Outlet Elbow Assembly Complete | M-17 | 72974/001 | 1 |
| 1A | Outlet Elbow Cap Bolts (4) | M-17-D | 82563/001 | 1 |
| 1B | Outlet Elbow Cap | M-17-C | 131054/001 | 1 |
| 1C | Outlet Elbow Cap Gasket | M-17-G | 131227/001 | 1 |
| 1D | Outlet Elbow Insert Gasket | M-23-G | 131147/001 | 1 |
| 1E | Outlet Elbow Insert | M-23 | 73602/001 | 1 |
| 1F | Outlet Elbow Body | M-17-B | 80789/001 | 1 |
| 2 | 52" Outlet Pipe (DB-1500) | | 134708/001 | 1 |
| 2 | 74" Outlet Pipe (DB-3000) | | 134703/001 | 1 |
| 3 | Packing Gland Nut | M-5-1 | 131102/001 | 1 |
| 4 | Gasket | M-13 | 131226/001 | 1 |
| 5 | Gasket | M-5-G | 131225/001 | 1 |
| 5A | Seal (manufactured after 5/15/13) | M-6-S | 131226/002 | 1 |
| 6 | Rocker Arm Adjusting Screw | AB-8 | 73464/001 | 1 |
| 7 | Rocker Arm (long) | B-3-1L | 73480/003 | 1 |
| 8 | Abrasive Lever Clevis Pin w/ Cotter Pins | AB-11-S | 131070/001 | 1 |
| 9 | Pedestal Clevis Pin w/ Cotter Pins | AB-12-S | 131069/001 | 1 |
| 10 | Rocker Arm Hinge Yoke | AB-75 | 131113/001 | 1 |
| 11 | Rocker Arm Yoke/Rocker Arm Adjusting Screw Locking Nut | AB-75-C | 22926/001 | 2 |
| 12 | Rocker Arm Acorn Nut (5/8"-11) | AB-8-N | 134687/002 | 1 |
| 13 | Rocker Arm Hinge Yoke Adjusting Nut | AB-75-E | 131094/001 | 1 |
| 14 | Connecting Link w/ Cotter Pin | AB-10 | 131133/0 | 2 |
| 15 | Abrasive Control Lever | AB-9 | 73500/001 | 1 |
| 16 | Abrasive Control Lever Washer | FBA | | 4 |
| 17 | Air Inlet Body Gasket | AB-1-G | 131228/001 | 1 |
| 18 | Air Inlet Nozzle (5/8") | AB-1-NHD | 131126/001 | 1 |
| 19 | Air Inlet Body | ABHD-1 | 73478/001 | 1 |
| 20 | Air Inlet Body Lug | AB-47 | 131231/001 | 2 |
| 21 | Air Inlet Body Lug Bolts (2) | AB-47-B | 23879/005 | 1 |
| 22 | 1" x 12" Nipple TOE (DB-1500) | FG-68 | 131400/001 | 1 |
| 22 | 1" x 28" Nipple TOE (DB-3000) | | 131400/002 | 1 |
| 23 | 1" Elbow | AB-61-T | 131867/001 | 1 |
| 24 | 1" x 3" Nipple | AB-61-S | 131861/001 | 1 |
| 25 | 1" x 3/4" Bushing - SS | AB-61-A-SS | 131860/SS | 3 |
| 26 | 1" Plug (stand alone units only) | | 131619/002 | 2 |
| 27 | 3/4" 90 Degree Street Elbow - SS | | 131847/SS | 3 |
| 28 | 3/4" Blow-Off Valve (red handle) | AB-61-C-SS | 70239/SS | 1 |
| 29 | 3/4" Close Nipple | RC-23-SS | 131859/SS | 5 |
| 30 | Blow-Off Restrictor | AB-61-R | 68967/001 | 1 |
| 31 | 3/4" Overflow Valve (blue handle) | | 133762/SS | 1 |
| 31A | 3/4" Fill Valve (red handle) | AB-61-C-SS | 70239/SS | 1 |
| 31B | Safety Tag | FGM-DP | 131416/001 | 1 |
| 31C | 3/4" Check Valve | | 133051/001 | 1 |
| 31D | 3/4" Crowfoot | | 132172/001 | 1 |
| 31E | Crowfoot Gasket | M-G-2 | 73850/001 | 1 |
| 32 | Fill Plug Seat Ring Snap Ring | M-27-C | 131580/001 | 1 |
| 33 | Fill Plug Seat Ring | M-27-B1 | 131027/001 | 1 |
| 34 | Fill Plug Assembly | M-19 | 73606/001 | 1 |
| 35 | Pop-up Assembly | M-19-AL | 68811/001 | 1 |
| 35A | Pop-up Boot | M-19-A | 131234/001 | 1 |
| 35B | Pop-up Boot Washer | M-19-B | 131637/001 | 1 |
| 35C | Pop-up Piston Snap Ring | M-19-L | 68809/001 | 1 |
| 35D | Pop-up Piston Guide | M-19-K | 131038/001 | 1 |
| 35E | Pop-up Piston Stem | M-19-C | 131028/001 | 1 |
| 35F | Pop-up Piston Cup Washer | M-19-D | 131039/001 | 1 |
| 35G | Pop-up Piston Cup | M-19-E | 131232/001 | 1 |
| 35H | Pop-up Piston Cup Disk | M-19-F | 131036/001 | 1 |
| 35J | Pop-up Cylinder Bolt | M-19-G | 131235/001 | 1 |
| 35K | Pop-up Cylinder | M-19-H | 131035/001 | 1 |

| Item No. | Description | Part No. | Stock No. | Qty. |
|----------|--|-------------|--------------|------|
| 35L | Pop-up Cylinder Screw | M-19-N | 68810/001 | 1 |
| 36 | Handway Nut | FM-66-N | 43625/001 | 1 |
| 37 | Handway Cross Bar | FM-66-C | 74439/001 | 1 |
| 38 | Handway cover | FM-66-P | 73604/001 | 1 |
| 39 | Handway Gasket | FM-66-G | 73605/001 | 1 |
| 40 | 1"x2" Adjustment Nipple | FM-19-P | 131132/001 | 1 |
| 41 | 1"x3/4" Reducing Elbow | FM-19-R | 131842/001 | 1 |
| 42 | 3/4"x4" Nipple T.O.E. | FM-19-S | 131892/001 | 1 |
| 43 | Moody Nut | FM-19-T | 131592/001 | 1 |
| 44 | Moody Nut Gasket | FM-19-G | 131593/001 | 1 |
| 45 | 1-1/4" SCH 40 Close Nipple | FM-19-V | 131870/002 | 1 |
| 46 | 1-1/4" Elbow | | 131855/001 2 | 2 |
| 47 | 1-1/4" X 6 1/2" Nipple (DB-1500) | | 73749/002 | 1 |
| 47 | 1-1/4" X 12" Nipple (DB-3000) | | 131835/002 | 1 |
| 48 | 1-1/4" X 9" Nipple | | 134517/001 | 1 |
| 49 | Pinch Valve Plate | | 134611/001 | 1 |
| 50 | Pinch Valve Mounting Bolts (2) | | | 1 |
| 51 | Pinch Valve Mounting Lock Washers (2) | | | 1 |
| 52 | KF Series Coupling Gasket | KFG | 131148/001 | 1 |
| 53 | Elbow Adapter Bolts (2) | KF-17-B | 23858/001 | 1 |
| 54 | Elbow Adapter, w/ Gasket | KF-17 | 80790/001 | 1 |
| 55 | Elbow Adapter Flat Gasket | KF-17-G | 131149/001 | 1 |
| 56 | Short Blast Hose Assembly | AB-125 | 72840/004 | 1 |
| 56A | KF Series Coupling Gasket | KFG | 131148/001 | 2 |
| 56B | Hose Coupling w/ Screws | KF-5 | 80838/001 | 2 |
| 56C | 1-1/4" X 2' Blast Hose, Uncoupled | | 72840/001 | 1 |
| 57 | Pinch Valve | | 74290/001 | 1 |
| 58 | 1/4" Close Nipple | | 77094/001 | 1 |
| 59 | Brass Bushing | DRC-3-B | 73815/001 | 1 |
| 60 | Button Bleeder | BB-1S | 69953/001 | 1 |
| 61 | 1/4" Tee | RC-19 | 131865/001 | 1 |
| 62 | Pinch Valve Safety Cover (w/ screws) | | 134720/001 | 1 |
| 63 | Vibrator Bolt, Washer, Lock Washer & Nut | | | 2 |
| 64 | Vibrator | | 133811/001 | 1 |
| 65 | 1/4" 90 Degree Street Elbow | RC-16 | 73813/001 | 1 |
| 66 | 3/8" Air Hose Assembly (Pinch Valve) (DB-1500) | | 134798/002 | 1 |
| 66 | 3/8" Air Hose Assembly (Pinch Valve) (DB-3000) | | 134798/012 | 1 |
| 67 | Pneumatic Control Box | | 133303/500 | 1 |
| 67A | Control Box Mounting Nuts & Lock Washers | FBA | | 4 |
| 68 | 3/8" Air Hose Assembly (Vibrator) (DB-1500) | | 134798/008 | 1 |
| 68 | 3/8" Air Hose Assembly (Vibrator) (DB-3000) | | 134798/010 | 1 |
| 69 | 3/8" Air Hose Assembly (Air Inlet) (DB-1500) | | 134798/009 | 1 |
| 69 | 3/8" Air Hose Assembly (Air Inlet) (DB-3000) | | 134798/011 | 1 |
| 70 | Air Inlet Assembly | | 133021/005 | 1 |
| 70A | Gauge | SB-30-G | 134366/001 | 2 |
| 70B | 1-1/4" x 1/4" Bushing - SS | | 131868/SS | 2 |
| 70C | 1-1/4" Tee -SS | AB-30-IT-SS | 131856/SS | 1 |
| 70D | 1-1/4" Close Nipple - SS | | 131870/SS | 1 |
| 70E | 1-1/4" x 2-1/2" Nipple - SS | | 131661/SS | 1 |
| 70F | 1-1/4" X 2" Bushing - SS | | 134801/SS | 2 |
| 70G | 2" Tee -SS | | 134806/SS | 2 |
| 70H | 2" x 5" Nipple - SS | | 134805/SS | 1 |
| 70J | 2" U-Bolts w/ Nuts | | 131461/002 | 2 |
| 70K | 2" Ball Valve - SS | | 133762/SS | 2 |
| 70L | 2" Close Nipple - SS | | 134803/SS | 4 |
| 70M | 2" Check Valve | | 73415/001 | 1 |
| 70N | 1-1/4" KC Swivel | | 83900/001 | 1 |
| 70P | 1-1/4" Hose Assembly (DB-1500) | | 133021/005 | 1 |
| 70P | 1-1/4" Hose Assembly (DB-3000) | | 133021/006 | 1 |

XIV. ADDITIONAL RESOURCES

For assistance with servicing your machine:

www.dustlessblasting.com/owner-support

For replacement parts and accessories:

store.DustlessBlasting.com

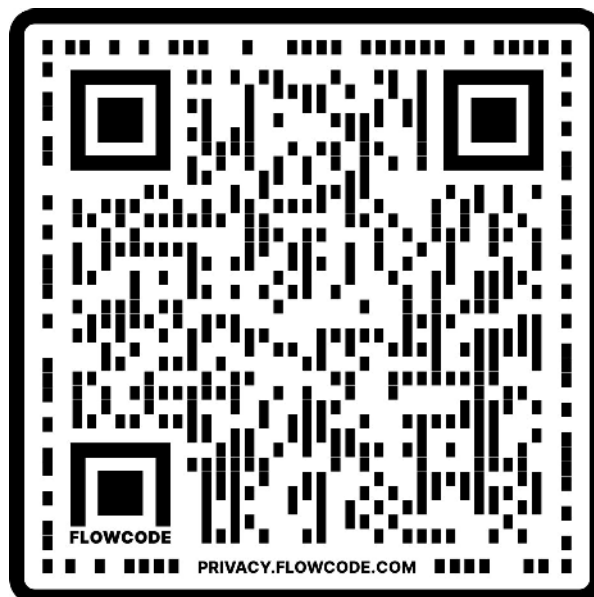
For training resources:

support.DustlessBlasting.com

**To submit a ticket, find Safety Data Sheets, business guides,
authorization certificates, and warranty information:**

www.DustlessBlasting.com/support

Thank you for choosing Dustless Blasting. We want the transition into building your business to be as seamless and safe as possible. The team creates all of our manuals with the customer experience in mind. We're always looking to improve! Please scan the QR code below to give direct feedback for areas such as procedure clarification or information addition.





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