



# MODEL 500

## Liquid Bead Blasting Cabinet



Cabinet ID # \_\_\_\_\_

Purchase Date: \_\_\_\_\_

# OWNER'S MANUAL

Phone: (251) 580-8537 • Online Technical Support: [office@911Blasters.com](mailto:office@911Blasters.com)

LAST UPDATED MARCH 2024 BY 911 BLASTERS, LLC.

WARNING: NO PORTION OF THIS MANUAL MAY BE REPRODUCED IN ANY SHAPE OR FORM  
WITHOUT THE WRITTEN APPROVAL OF 911 BLASTERS, LLC.



# WARNING

This manual provides critical safety instructions on the proper setup, operation, maintenance, and service of this machine/tool. Save this document, refer to it often, and use it to instruct other operators. Failure to read, understand and follow the instructions in this manual may result in fire or serious personal injury—including amputation, electrocution, or death. The owner of this machine/tool is solely responsible for its safe use.

This responsibility includes but is not limited to proper installation in a safe environment, personnel training and usage authorization, proper inspection and maintenance, manual availability and comprehension, application of safety devices, cutting/sanding/grinding tool integrity, and the usage of personal protective equipment. The manufacturer will not be held liable for injury or property damage from negligence, improper training, machine modifications or misuse.



# WARNING

Some dust created by power sanding, sawing, grinding, drilling, and other construction activities contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:

- Lead from lead-based paints.
- Crystalline silica from bricks, cement and other masonry products.
- Arsenic and chromium from chemically-treated lumber.

Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: Work in a well ventilated area, and work with approved safety equipment, such as those dust masks that are specially designed to filter out microscopic particles.

# INTRODUCTION

## Technical Support

911 Blasters, LLC. is committed to customer satisfaction. Our goal with this manual is to provide the basic information for safety, setup, operation, maintenance, and service of our cabinets.

In the event that questions arise about your machine, please contact 911 Blasters Technical Support at (251) 580-8537 or send an e-mail to: [office@911Blasters.com](mailto:office@911Blasters.com). Our knowledgeable staff will help you troubleshoot problems or process warranty claims or media orders.

If you need the latest edition of this manual, you can download it from  
<http://www.911Blasters.com/documents>

If you have comments about this manual, please contact us at:

Attn: Technical Support Manager  
P.O. Box 155  
STAPLETON, AL 36578  
Email: [Sales@911Blasters.com](mailto:Sales@911Blasters.com)

## About Your New Liquid Bead Blast Cabinet

Your new 911 Blasters Liquid Bead Blasting Cabinet has been designed and produced with quality to provide many years of utilization. Close attention to detail, quality built parts and an extensive inspection process assure safe and reliable operation.

The Model 500 Liquid Bead Blaster is equipped with an industrial-duty blast gun with a custom tip, a siphon hose, a built-in light, large viewing window, and sealed rubber gloves. The hopper recycles and stores the liquid bead blasting media for reuse or easy removal. Safely blast away paint and rust without making a mess around your shop.

911 Blasters, LLC. is committed to customer satisfaction in providing this manual. It is our intent to include all the information necessary for safety, ease of assembly, practical use and durability of this product.

## Specifications

Design Type .....	Standard Side Load Model 500
Width .....	42"
Height .....	Overall 61"/Cabinet 34"
Depth .....	26"
Operating Air Pressure Range .....	90-120 PSI
Recommended Air Supply .....	12-16 CFM
Media Capacity .....	Approximately 12 lbs.
Media Type .....	911 Blasters Brands Only
Lighting Type .....	LED
Load Door Access .....	Side
Power Supply.....	120V AC

# SAFETY

## For Your Own Safety, Read Manual Before Operating Machine

The purpose of safety symbols is to attract your attention to possible hazardous conditions. This manual uses a series of symbols and signal words intended to convey the level of importance of the safety messages. The progression of symbols is described below. Remember that safety messages by themselves do not eliminate danger and are not a substitute for proper accident prevention measures—this responsibility is ultimately up to the operator!



Indicates an imminently hazardous situation which, if not avoided, **WILL** result in death or serious injury.



Indicates a potentially hazardous situation which, if not avoided, **COULD** result in death or serious injury.



Indicates a potentially hazardous situation which, if not avoided, **MAY** result in minor or moderate injury.

**NOTICE**

This symbol is used to alert the user to useful information about proper operation of the equipment or a situation that may cause damage to the machinery.

## Standard Machinery Safety Instructions

**OWNER'S MANUAL.** Read and understand this owner's manual **BEFORE** using machine.

**TRAINED OPERATORS ONLY.** Untrained operators

have a higher risk of being hurt or killed. Only allow trained/supervised people to use this machine. When machine is not being used, disconnect power, or lock-out machine to prevent unauthorized use—especially around children. Make workshop kid proof!

**DANGEROUS ENVIRONMENTS.** Do not use machinery in areas that are wet, cluttered, or have poor lighting. Do not use in areas near gas or other flammable substances. Operating machinery in any of these areas greatly increases the risk of accidents and injury.

**MENTAL ALERTNESS REQUIRED.** Full mental alertness is required for safe operation of machinery. Never operate under the influence of drugs or alcohol, when tired, or when distracted.

**ELECTRICAL EQUIPMENT INJURY RISKS.** You can be shocked, burned, or killed by touching live electrical components or improperly grounded machinery. To reduce this risk, only allow an electrician or qualified service personnel to do electrical installation or repair work, and always disconnect power before accessing or exposing electrical equipment.

**DISCONNECT POWER FIRST.** Always disconnect machine from power supply **BEFORE** making adjustments, changing media, or servicing machine. This eliminates the risk of injury from unintended startup or contact with live electrical components.

**EYE PROTECTION.** Always wear ANSI-approved safety glasses or a face shield when operating or observing machinery to reduce the risk of eye injury or blindness from flying particles. Everyday eyeglasses are not approved safety glasses.

**WEARING PROPER APPAREL.** Do not wear clothing, apparel, or jewelry that can become entangled in moving parts. Always tie back or cover long hair. Wear non-slip footwear to avoid accidental slips, which could cause loss of workpiece control.

**HAZARDOUS DUST.** Although minimal, dust created while using machinery may cause cancer, birth defects, or long-term respiratory damage. Be aware of dust hazards associated with each workpiece material, and always wear a NIOSH-approved respirator to reduce your risk.

**HEARING PROTECTION.** Always wear hearing protection when operating or observing loud machinery. Extended exposure to this noise without hearing protection can cause permanent hearing loss.

**INTENDED USAGE.** Only use machine for its intended purpose—never make modifications to 911 Blasters Liquid Bead Blasting cabinets. Modifying machine or using it differently than intended will void the warranty and may result in malfunction or mechanical failure that leads to serious personal injury or death!

**AWKWARD POSITIONS.** Keep proper footing and balance at all times when operating machine. Do not overreach! Avoid awkward hand positions that make workpiece control difficult or increase the risk of accidental injury.

**CHILDREN & BYSTANDERS.** Keep children and bystanders at a safe distance from the work area. Stop using machine if they become a distraction.

**GUARDS & COVERS.** Guards and covers reduce accidental contact with moving parts or flying debris—make sure they are properly installed, undamaged, and working correctly.

**NEVER STAND ON MACHINE.** Serious injury may occur if machine is tipped or if the cutting tool is unintentionally contacted.

**STABLE MACHINE.** Unexpected movement during operation greatly increases risk of injury or loss of control. Before starting, verify machine is stable and casters (if used) are locked.

**USE RECOMMENDED ACCESSORIES.** Consult this owner's manual or the manufacturer for recommended accessories. Using improper accessories will increase risk of serious injury.

**UNATTENDED OPERATION.** To reduce the risk of accidental injury, turn machine **OFF** and ensure all moving parts completely stop before walking away. Never leave machine running while unattended.

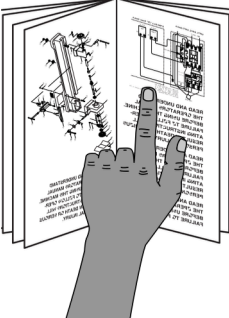
**MAINTAIN WITH CARE.** Follow all maintenance instructions to keep machine in good working condition. A machine that is improperly maintained could malfunction, leading to serious personal injury or death.

**CHECK DAMAGED PARTS.** Regularly inspect machine for any condition that may affect safe operation. Immediately repair or replace damaged or mis-adjusted parts before operating machine.

**MAINTAIN POWER CORDS.** When disconnecting cord-connected machines from power, grab and pull the plug—NOT the cord. Pulling the cord may damage the wires inside, resulting in a short. Do not handle cord/plug with wet hands. Avoid cord damage by keeping it away from heated surfaces, high traffic areas, harsh chemicals, and wet/damp locations.

**EXPERIENCING DIFFICULTIES.** If at any time you experience difficulties performing the intended operation, stop using the machine! Contact Technical Support at 911 Blasters.

## Additional Safety Instructions for Liquid Bead Blasters

 An illustration of a hand with the index finger pointing to a document, likely an owner's manual. The document shows a technical diagram of a liquid bead blaster and some text.	<p style="text-align: center;"><b>⚠ WARNING</b></p> <p>READ and understand this Owner's Manual before using your blaster! Liquid Bead Blasting presents a real hazard of silicosis and other respiratory contamination injuries! These Injuries are permanent and can get worse over time. If you use liquid bead blasting equipment without the proper protection, your lungs and eyes may become irreversibly contaminated. <b>DO NOT</b> use this liquid bead blaster unless you know how to use it and protect yourself correctly. For types of protective equipment and acceptable respirator types, contact your local OSHA or NIOSH office.</p>
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1. **PROTECTING RESPIRATORY SYSTEM.** Make sure that you always wear an approved NIOSH respirator when using or cleaning the liquid bead blaster.
2. **LEAVING THE AREA.** Always disconnect air supply when leaving the liquid bead blaster to prevent an accidental blast gun discharge.
3. **PROTECTING EYES.** Make sure that you always use safety goggles when using or cleaning the liquid bead blaster.
4. **PROTECTING ENVIRONMENT.** Always close and latch shut the liquid bead blaster door when not in use to protect the environment from any abrasive leakage.
5. **PREVENTING ABRASIVE LEAKS.** Replace nozzles, hoses, lenses, and gloves when they become worn. Check cabinet for any leaks before every use, and reseal immediately.
6. **SAFE BLASTING.** Do not use the liquid bead blaster over the rated 90 PSI, or damage or severe injury could occur.
7. **CORRECT LIGHTING.** Do not use any light other than that provided with cabinet or replacements approved by 911 Blasters.
8. **LOADING & UNLOADING.** Disconnect the air supply before loading or unloading the workpiece from the liquid bead blast cabinet so prevent an accidental blast gun discharge.
9. **SAFE MAINTENANCE.** Disconnect air supply and electrical before doing any maintenance.
10. **SAFE BLASTING.** Always secure the door(s) before beginning liquid bead blasting operations. Never operate the liquid bead blaster with the doors open.
11. **AVOIDING EXPLOSION HAZARDS.** Avoid using cabinet in an environment where flammable gas or liquids are present or are near. Electrostatic discharges by liquid bead blasting operations can ignite volatile gas or liquids nearby.

# ELECTRICAL

## 120V Operation

The 911 Blaster Model 500 is wired for 120 Volt operation. Never replace a circuit breaker with an approved one without consulting a qualified electrician to ensure compliance with wiring codes.

If you are unsure about the wiring codes in your area or you plan to connect your machine to a shared circuit, you may create a fire hazard— consult a qualified electrician to reduce this risk.

## Extension Cords

When it is necessary to use an extension cord, use the following guidelines:

- Use cords rated for Standard Service
- Use cords with 12 gauge wire or bigger
- Do not use cords in need of repair
- Use a 3-prong grounded type cord
- Make sure the extension cord and the blaster transformer are located in a dry place away from all combustibles

### **WARNING**

If using an extension cord, make sure the extension cord female plug and the liquid bead blaster transformer are located in a dry place away from all combustibles. Otherwise, serious injury may occur.

# SET UP

## Unpacking

The 911 Blasters Model 500 has been carefully packaged for safe transporting. If you notice the machine has been damaged, please contact 911 Blasters by phone or online immediately.

Examine the packaging for any missing parts. If there are any missing pieces, contact 911 Blasters, LLC. at (251) 580-8537 or at [office@911Blasters.com](mailto:office@911Blasters.com)

Our Liquid Bead Blasters come pre-assembled for your convenience and safety. When you are ready to use your new cabinet, the following steps should be followed:

- 1.Ensure cabinet is located in desired location. Once filled with water and media, it is recommended to not be moved. Even if your cabinet has wheels, do not move once water and/or media are added.
- 2.Make sure cabinet is not plugged in while completing next steps.
- 3.Add one pre-measured bag (approximately 12 lbs) of media from that provided through the loading door.
- 4.Add approximately 15 gallons of water through the loading door until it reaches fill line.
- 5.Close loading door and connect the cabinet to power by plugging the cord into outlet. SEE PREVIOUS INSTRUCTIONS ON ELECTRICAL COMPENENTS AND EXTENSION CORDS BEFORE POWERING ON.
- 6.Turn pump and light switches on junction box to start power to the cabinet.
- 7.Give the cabinet a couple of minutes to mix the media and water slurry.
- 8.Connect air line to foot pedal.
- 9.Continue to the Operations section of your manual for general operation instructions, tips, and troubleshooting to possible issues.


	<b>⚠️ WARNING</b> SUFFOCATION HAZARD! Immediately discard all plastic bags and packing materials to eliminate choking/suffocation hazards for children and animals.
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Figure 1. Adding Media to Cabinet.

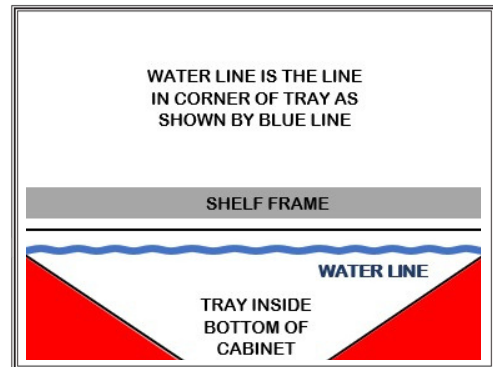


Figure 2. Fill Line Location.



Figure 3. Connecting Air Line



# OPERATIONS

## General

The Model 500 will perform many types of operations that are beyond the scope of this manual. Many of these operations can be dangerous or deadly if performed incorrectly.

The instructions in this section are written with the understanding that the operator has the necessary knowledge and skills to operate this machine. **If at any time you are experiencing difficulties performing any operation, stop using the machine!**

If you are inexperienced with liquid bead blasting, we strongly recommend that you thoroughly read this manual and/or contact our technical support team before performing any blasting operations. **Above all, your safety comes first!**

## Liquid Bead Blasting

The Model 500 Liquid Bead Blaster is equipped with an industrial-duty blast gun with custom tip, siphon hose, work light, large viewing window, and sealed rubber gloves. The hopper recycles and stores the blasting media for reuse or easy removal.

To use the blaster do these steps:

1. Wear safety goggles and a NIOSH approved respirator at all times when operating or maintaining your liquid bead blaster!
2. Carefully, without causing a hazardous dust cloud, pour or spade-in one pre-measured bag of abrasive into the blaster. DO NOT over-fill or blasting may be sluggish and cloudy inside of the cabinet.
3. Add approximately 15 gallons of water, to fill line.
4. Plug in the power cord and turn the switch ON.
5. Insert the workpiece, and close and lock the loading door.
6. Adjust the air supply regulator to an air pressure of 90-120 PSI, do not exceed 120 PSI, and begin blasting in a slow circular motion.

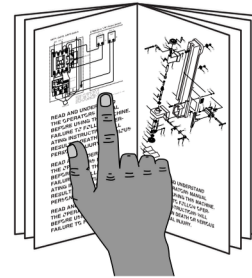
**Note:** A good starting point for tip distance is two inches away from the workpiece.

**Note:** Experiment with angles and distances from the workpiece until you get a desired result.

### ⚠ WARNING

Liquid Bead Blasting presents a real hazard of silicosis and other lung contamination injuries! These injuries are permanent and can get worse over time. If you use the liquid bead blasting cabinet without the proper protection, your lungs and eyes may become irreversibly contaminated. **DO NOT** use this blasting cabinet unless you know how to use it and protect yourself correctly. For types of protective equipment and acceptable respirator types, contact your local OSHA or NIOSH office.

### ⚠ WARNING



**READ** and understand this entire instruction manual before using this liquid bead blaster. Serious personal injury may occur if safety and operational information is not understood and followed. **DO NOT** risk your safety by not reading!

### ⚠ CAUTION



**MAKE** your shop "child safe." Ensure that your workplace is inaccessible to children by closing and locking all entrances when you are away. **NEVER** allow untrained visitors in your shop when assembling, adjusting or operating equipment.

## Nozzle and Media Information

Our liquid bead blasting cabinets come with a non-adjustable nozzle. It is designed to work efficiently and therefore does not need to be adjusted. 911 Blasters also produces a special blend of media that is ideal for our cabinets. It is not recommended to use any other type of media other than that sold by 911 Blasters. Please see service manual for information on replacing media and possible issues. In the event that you feel your cabinet is having issues, please refer to the service manual for more information and contact our technical support department by phone or email.

## Cabinet Cleaning

When cleaning this liquid bead blasting cabinet, DO NOT use chlorine-based solvents (such as brake parts cleaner or acetone) or other harsh chemicals and cleaners—if you happen to splash some onto a painted surface, the paint could lift. To avoid damage, DO NOT use the above mentioned to wipe the dirt and water from the window glass, gloves, or other non-aluminum parts of the cabinet. Avoid contact with water to electrical box, switches, and power plug to prevent damage.

To clean the liquid bead blasting cabinet, follow these steps:

1. Put on safety goggles and your approved NIOSH respirator.
2. Disconnect the power and air supply.
3. Drain cabinet and rinse with clean water.
4. Add new media from 911 Blasters.
5. Add the recommended amount of water.

SEE SETUP SECTION FOR RECOMMENDED AMOUNTS OF MEDIA AND WATER.

### **WARNING**

NEVER blast with the doors open, point the gun at yourself or anyone else, or attempt to service any part of this machine while it is plugged in our connected to air pressure. ALWAYS disconnect the blast cabinet from power and air pressure when not in use, or during maintenance or adjustments. Ignoring this warning may lead to severe injury.

### **Replacement Parts:**

A variety of replacement parts are available for the Model 500 Cabinet. If you are in need of any parts or replacement media, please contact us by means provided in the beginning of this manual.

### **WARNING**



NEVER use gasoline or other petroleum-based solvents to clean with. Most have low flash points, which make them extremely flammable. A risk of explosion and burning exists if these products are used. Serious personal injury may occur if this warning is ignored!

# Drip Rail & Catch Tank

The Model 500 comes with a drip rail installed below the door opening. This is meant to catch water and media when opening the door.

For the best results, we recommend letting the bottom door latch lose. Allow a moment for water to drip from door. Then let the top door latch lose, also waiting a moment for the remaining water to fall into the drip rail.

The water and media collect in the catch tank under the cabinet. The tank should hold enough water that it is not necessary to empty after every use.

However, we recommend inspecting the catch tank, drip rail, and hose to make sure media is not clogging the hose or drip rail and that there is no damage to the catch tank.

The catch tank has a vent hole in the lid. This helps water to flow through the hose from the drip rail easier and avoids letting the catch tank build up any pressure.

It is recommended to not let the catch tank get too full. We also recommend rinsing the media out of the drip rail and hose if you do not use the cabinet often. The media may build up and prevent the water from flowing properly.

# Catch Tank Draining

There are two ways the catch tank can be drained.

1. Open Cap on Bottom.
  - a. Place a bucket or pan under the catch tank.
  - b. Remove the cap from the bottom.
  - c. Replace cap when tank is drained.
  
2. Remove Catch Tank.
  - a. Slide Catch Tank up, out of holder.
  - b. Remove hose from Catch Tank.
  - c. Empty water from bottom cap or by removing the lid.
  - d. Replace Catch Tank and reattach hose.

# 911 Blasters Liquid Bead Blast Cabinet - Model 500

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## Water & Media Changing Instructions

*NOTE: It is best to have 4 or 5 empty five-gallon buckets ready when draining water and/or media to ensure none is spilled. Or a tube can be attached to the drain pipe and directed away from the working area.*

**WARNING:** If you chose to drain or clean out your cabinet without buckets or something to contain the contents, you are risking injury due to falls or electrocution from wet working surfaces. The media and water, whether mixed or separate, can be slippery on certain surfaces or without proper safety precautions and shoes.

**\*\*We are not responsible for injury due to improper use, cleaning, or draining of cabinet.\*\***

**\*\*When cleaning, draining, or unloading cabinet make sure the pump and light switches are turned to off and the cabinet is unplugged from power\*\***

### To Change Water:

It is best to allow the cabinet to sit, unused and turned off, for a few hours until the media has settled. Once the media has settled to the bottom, the water can be drained. Make sure your cabinet is unplugged before draining. Open the cabinet drained located on the under side of the door side of the cabinet and drain the water into your buckets or other safely designated draining area. Once the water is finished draining, close the drain and add water to the fill line shown in your manual. Some media may come out with the water. Replace the approximate amount of lost media to the best estimation.

### To Change Media:

You do not need to let the media settle before draining. In fact, when changing the media, it may be easier to get all of it out if you run the pump for a minute to help pick up the media. Make sure to turn the pump back off and unplug your cabinet before draining the water. Open the drain valve and allow the media and water to come out into your buckets or other safely designated draining area. You may need to add small amounts of water to help rinse out the media. It may also be a good idea to rinse the sides of the cabinet, the gloves, the window, and the inside of the door with small amounts of water. This helps get any debris out and helps keep the fresh water clean. Once drained, close the valve and add media and water according to your manual.

# WARRANTY

911 Blasters, LLC. warrants all new 911 Blasters, LLC.'s machinery to be free of defects from workmanship and materials for a period of 6 months from the date of original purchase by the original owner. This warranty does not apply to misuse, abuse, negligence or accidents, lack of maintenance, or reimbursement of third party expenses incurred.

911 Blasters, LLC. warrants all nozzles provided with new 911 Blasters, LLC.'s machinery or to be free of defects from workmanship and materials for the lifetime of the cabinet with proof of original purchase by the original owner. This warranty does not apply to misuse, abuse, negligence or accidents, lack of maintenance, or reimbursement of third party expenses incurred.

911 Blasters, LLC. will repair, replace, or arrange for a dealer refund, at its expense and option, the 911 Blasters machine or machine part proven to be defective for its designed and intended use, provided that the original owner returns the product prepaid to an authorized warranty or repair facility as designated by our Stapleton, Alabama office with proof of their purchase of the product within 6 months, and provides 911 Blasters, LLC. reasonable opportunity to verify the alleged defect through inspection. If it is determined there is no defect, or that the problem resulted from causes not within the scope of 911 Blasters, LLC.'s warranty, then the original owner must bear the cost of storing and returning the product.

This is 911 Blasters, LLC.'s sole written warranty and any and all warranties that may be implied by law, including any merchantability or fitness, for any particular purpose, are hereby limited to the duration of this written warranty. We do not warrant that 911 Blasters, LLC.'s machinery complies with the provisions of any law, acts or electrical codes. We do not reimburse for third party repairs. In no event shall 911 Blasters, LLC.'s liability under this limited warranty exceed the purchase price paid for the product, and any legal actions brought against 911 Blasters, LLC. shall be tried in the State of Alabama, County of Baldwin. We shall in no event be liable for death, injuries to persons or property or for incidental, contingent, special or consequential damages arising from the use of our products.

Every effort has been made to ensure that all 911 Blasters, LLC.'s machinery meets high quality and durability standards. We are committed to continuously improving the quality of our products, and reserve the right to change specifications at any time.

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