User Guide

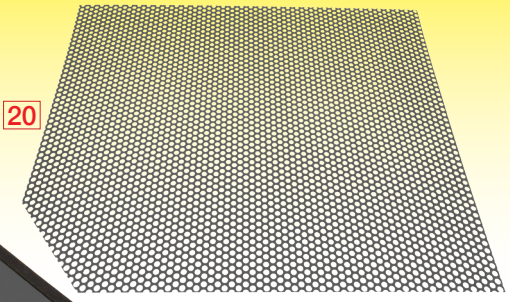
Bench Top Sandblast Cabinet

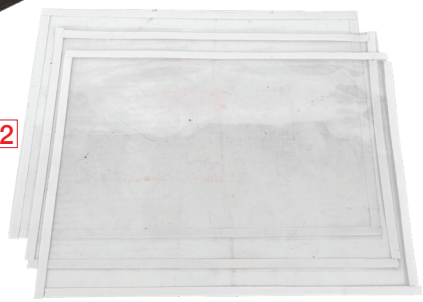
555-81502

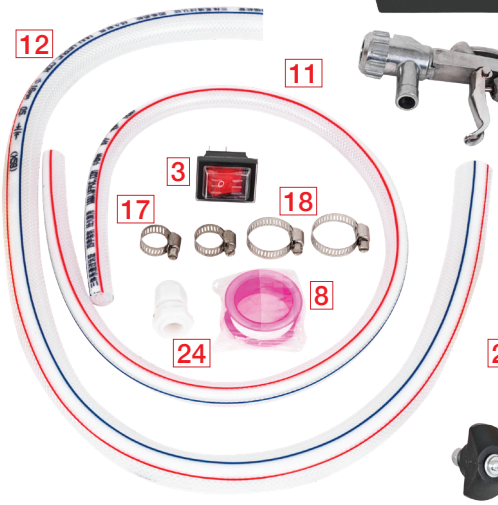
JEGS.com

1-800-345-4545

Parts List







#	PART		#	PART		#	PART
1	Cabinet		10	Nozzles		19	Gloves
2	Base		11	Air Supply Hose		20	Screen
3	Light Switch		12	Rubber Suction Hose		21	Air Cleaner
4	Leg (Left Frt, Right Rr)		13	Steel Suction Hose		22	Replacement Lenses
5	Leg (Right Frt, Left Rr)		14	Air Hose Connector		23	Lamp
6	Assembly Screws		15	Washers		24	Feed Through
7	Assembly Nuts		16	Air Supply Connection		25	Wire Connection Box
8	Teflon Tape		17	Small Hose Clamp		26	AC/DC Adapter
9	Blast Gun		18	Large Hose Clamp		27	Lid Latches

Read Before Installation

Thank you for your purchase of this JEGS Bench Top Sandblast Cabinet.

Before use, please be sure to verify that all of the components have been received. Reference the parts list on the previous page. If any components are missing or damaged please contact customer service at: 1.800.345.4545.

Assembly of this sandblast cabinet can be completed with basic hand tools. If you are not comfortable with this process please contact a trusted service shop to perform the assembly.

If you are having issues, or have questions regarding the assembly of this sandblast cabinet please contact our technical support department at: 1.800.345.4545.

Return Information: Before modifying any of the parts in this system, please trial fit. ***Once this cabinet has been modified it will not be accepted for return.***

Important Information

- This blast cabinet produces a powerful flow of abrasive material. To avoid personal injury and property damage study this manual thoroughly before assembling, operating, or servicing this blast cabinet.
- Please read instructions before operating the blasting system!
- Failure to follow these instructions could result in injury, property damage, as well as voiding the warranty.
- This blast cabinet is designed for cleaning, polishing and finishing with dry abrasive **ONLY**. Use media such as glass bead or plastic granule abrasives.
    - The finishes can vary from course to fine depending on the medium and aire pressure used. On delicate parts, start out with minimal air pressure to avoid unnecessary peening or excessive abrasion.
- This sandblast cabinet is equipped with a 3-prong grounded plug for protection against shock. When connecting your unit follow all applicable electrical and safety codes including the National Electric Code (NEC) and the Occupational Safety and Health Administration (OSHA).
    - The blasting system should be plugged into an adequately grounded 3-prong receptacle. If only a 2-prong receptacle is available, have it replaced to meet the applicable national and local codes or ordinances. Only a qualified electrician should perform this work.
    - A grounded adapter Can be used. Make sure the green lead from adapter is properly attached to a suitable electric ground Note: The Canadian Electrical code prohibits the use of 3-prong adapters.
- Abrasive media is very slippery and should be cleaned up immediately to avoid possible operator injury.

Assembly

1. Assemble **Base** (2), **Legs** (4 & 5), and **Cabinet** (1) using included **Hardware** (6 & 7). Image 1-3
2. Put the **Screen** (18) in the assembled cabinet. Image 4

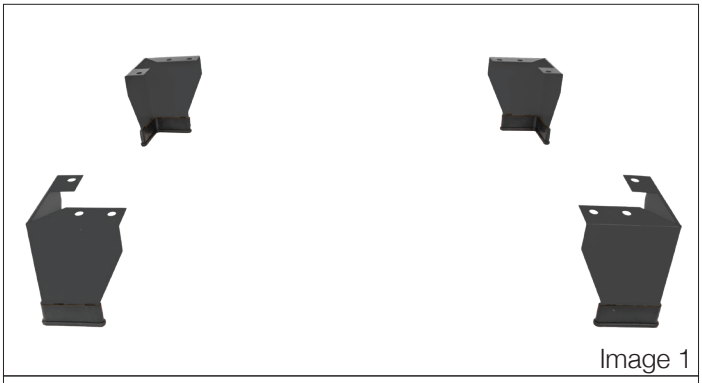


Image 1

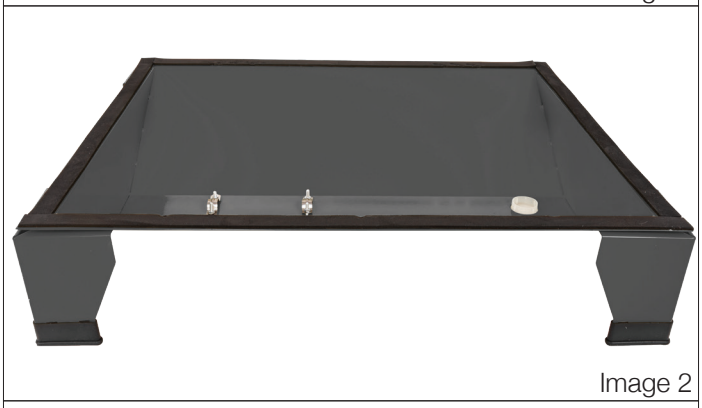


Image 2

Image 3

Image 4

3. Install the **Lid Latches** (27) to the cabinet lid using the attached hardware. Image 5

Image 5

4. Connect the wires in the **Connection Box** (25) to the **Light Switch** (3) and light. Assemble as show in the image. Securely push switch into connection box, and then screw to the cabinet. Image 6-7)

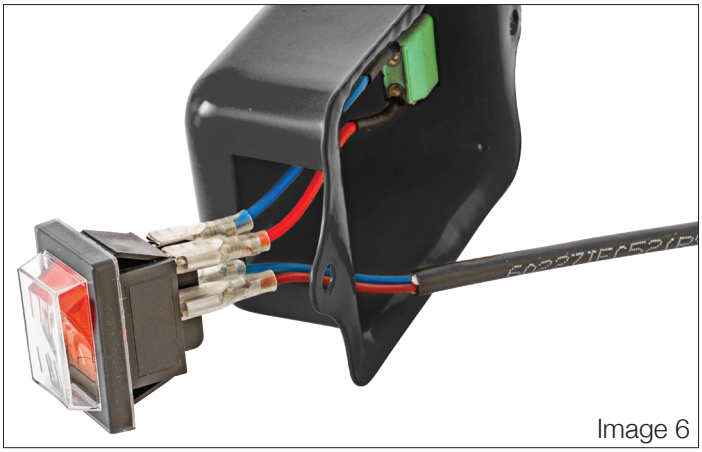


Image 6

Image 7

5. The **AC/DC Adapter** (26) plugs into the back of the Connection box. Image 8

Image 8

6. Mount the **Air Supply Connector** (16) to the cabinet using the supplied **Teflon Tape** (8). An air line fitting is not included as the design varies. Image 9

7. Assemble the **Blast Gun** (9). Unscrew the end of the gun and insert one of the included **Nozzles** (10). Image 10

8. Attach the Rubber Suction Hose (12) to the nozzle of the gun and the **Air Supply Hose** (11) to the air line with the supplied **Hose Clamps** (17 & 18). Image 11

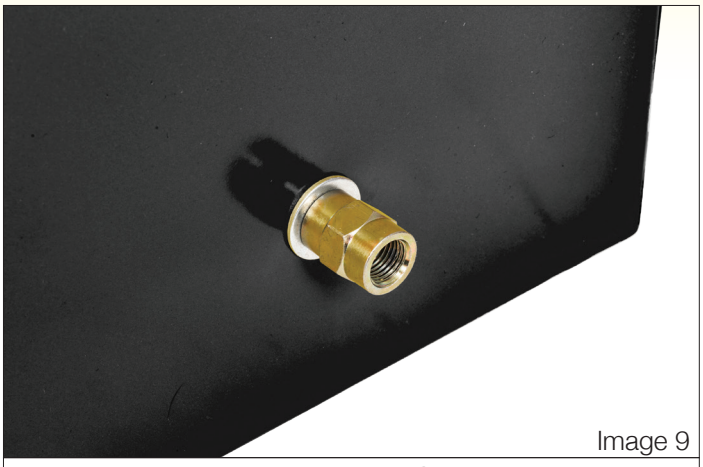


Image 9

Image 10

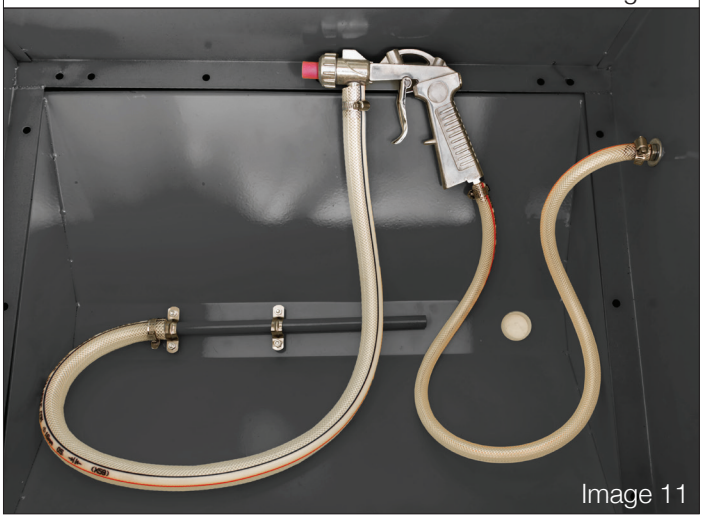


Image 11

Use

1. Place the sandblast cabinet near a 115V/60Hz (240V/50Hz)AC electrical outlet Make sure the receptacle will accept the 3-prong plug, so that the unit will be properly grounded.

2. Make sure to check that the power source is adequate for use with this blast system, An electrician should be consulted if the proper outlet is not available or is the user in any way questions the condition of the electrical circuit (See Important Information on Pg.2.)

3. Attach the air supply line from an air compressor capable of maintaining 5 cfm at 80 psi to the inlet connection found on the right side of the cabinet, Because of variation in air supply systems, the air inlet coupling is not provided. Use the particular fitting that is compatible with your air supply system

WARNING

DO NOT OPERATE THIS SANDBLAST CABINET AT OVER 100 PSI.

4. Check the air supply line fittings and hose attachments to the rear of the gun. Also make sure the media supply hose is attached tightly on the nipple on the underside of the gun.

5. Place no more than (10) ten pounds of abrasive media into the center of the cabinet. Excessive amounts will create clouded cabinet conditions, blow by of media through the exhaust, or sluggish and ineffective blasting performance.

6. With the air supply connected verify the following. First, that there are no leaks at any of the fittings and joints. Second,that the unit is plugged in to the appropriate 3-prong socket. Once these have been verified you are ready to test the sandblast cabinet.

7. Following the next three steps for startup operation.

   A. Place the part to be blasted into the cabinet. Always close and latch the lid prior to blasting. Severe injury to the Skin and eyes may result from exposure to the blast stream.

   B. After putting your hands into the gloves, grasp the gun and squeeze the trigger .This should begin the blasting flow. If no flow is seen you may need to clear the tube by covering the gun nozzle momentarily. Repeat until you get a steady flow of media through the nozzle.

      - If after taking these steps you are not getting a steady media flow, verify the air pressure from the air compressor.

   C. Once you have established media flow you may begin sandblasting the part. You should move the media stream continuously over the part in an even and circular motion. The flow should not be too hard or concentrated to avoid peening.

Maintenance

NOTE

DISCONNECT POWER SOURCE AND AIR SUPPLY BEFORE MAINTENANCE

PLUGGED CONDITIONS

1. The blast nozzle may become plugged from moist media. Try dislodging the media with a drill bit held in your hand. You need to get rid of the moist media.
2. If the abrasive pick-up hose appears plugged, cover the gun tip and force the air back through this hose. Dust may fly up when you do this so make sure the lid is down!

WEAR CONDITIONS

This is usually noted when an excessive amount of dust appears in the cabinet.

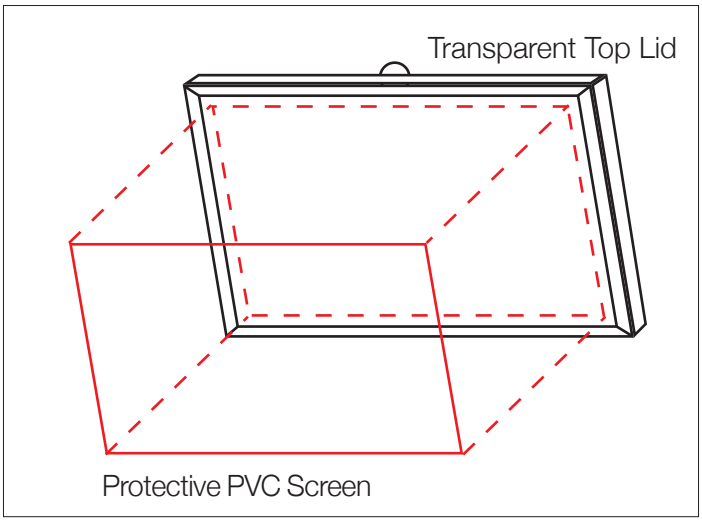
Dust may occur for any, of the following reasons.

1. The abrasive blasting media is worn out.
   - If the media has lost its granular or spherical appearance or has a lot of debris from the parts being blasted and mixed in, replace it.
   - This is usually noticed when the abrasive media that exits the nozzle looks like a smoke cloud instead of a stream.
2. The air outlet vent is plugged or air flow out is blocked.
   - Cleaning the vent should help reduce dust in the cabinet.
3. The gun parts may wear out. This is usually evident When the blast pattern is too wide and ineffective, simply replace nozzle or orifice

REPLACING THE TRANSPARENT PVC LENS COVER

At the bottom of the transparent top lid .there is a 0.5mm replaceable protective PVC screen. Over time this protective covering will become opaque. This is correct, this covering is intended to protect the transparent top lid, and can be easily replaced. (See the image below.)

1. Peel the old protective PVC screen off of the top lid.
2. Clean the transparent top lid.
3. Remove the adhesive backing from the new protective PVC screen and carefully apply it to the inside of the transparent top lid.



Troubleshooting

PROBLEM	POSSIBLE CAUSES	SOLUTION
Excessive dust in the cabinet	• Exhaust vent plugged or air flow is blocked • Abrasive media worn • Too much abrasive media Inside cabinet • Loose air line or fitting connections	• Clean rear vent and keep vent away from any wall • Replace abrasive media • Remove excess media • Tighten fitting and make sure air lines are secure
Uneven blasting	• Too much abrasive media Inside cabinet • Moisture present inside the cabinet	• Remove excess media check air line to make sure there is no moisture in it
Inadequate speed, or inefficiency of cabinet	• Abrasive media worn • Pressure too low	• Replace abrasive media • Increase inlet pressure and make sure control valve is fully opened
Static Electricity	• Dry weather conditions	• Leave the item being cleaned on the grating