INSTALLATION

1. Remove all packaging material from around the abrasive blaster and open the Door by lifting upward on the DOOR LATCH. Remove all packaging material from the inside of the abrasive blaster.

2. Connect the air hose to an air source which is capable of providing a pressure between 30-100 lbs/sq in (2.1-7.0 kg/sq cm). For optimum operation of your Whirlwind™ unit, the air source MUST provide compressed air which is free from moisture.

3. If a dust collection system is to be used with the Whirlwind unit, insert one end of the dust collector hose into the dust collector port (opening) at the rear of the cabinet. If no dust collector is to be used, install the supplied Blank Rubber Cover so that abrasive dust cannot escape during operation.

4. Check to make certain that the Drain Plug at the rear of the abrasive blaster is securely in place.

5. Plug the Power Cord into a wall receptacle rated for the voltage of the equipment being used.

6. Position the Footswitch in a position which is comfortable for normal operation.

7. Unscrew the cover from the Aluminum Oxide container supplied with the unit. Remove the seal on the canister by pulling up on the seal ring. Locate and remove the small silicon package from the abrasive container.

   Remove the cardboard tube from under the tank cover on the right hand side of the unit. Install the full Aluminum Oxide container, insuring that the tank cover is screwed down tightly onto the abrasive tank.

8. Repeat Step 7 for the container of Silicon Beads, installing this container on the left side of the unit.

9. Make certain that the Perforated Screen inside the unit is in a level position and is installed within the shelf bracket located at the rear of the blasting chamber.

10. Adjustment of the Tank Air Pressure Regulator: The purpose of the Tank Air Pressure Regulator is to adjust the amount of air flowing into the tank through the agitation tube, which agitates the abrasive material inside the tank.

    If the valve is set too low, the material in the tank will not be agitated causing the material to “bridge,” which would stop the material from flowing into the pencil. If the valve is set too high, pressure will build up inside the tank, and the excess air will escape around the abrasive tank lid. It is important to note that the abrasive tank is not designed to hold pressure. Ideally, the pressure inside the tank should be slightly less than ambient air pressure.

    The procedure for adjusting the Tank Air Pressure Valve is as follows: 1) Adjust the Master Air Regulator located on the right side of the abrasive blaster to control the maximum air pressure which is delivered to both abrasive tanks. To do this, pull upward on the regulator knob and rotate the knob counter-clockwise to decrease the pressure or clockwise to increase the pressure, while depressing the Footswitch. It is recommended that the Master Air Regulator initially be set for 50-60 lbs/sq in (3.5 - 4.2 kg/sq cm). 2) Adjust each Tank Air Pressure Valve by closing the valve on each tank, turning them fully clockwise. Depress the Footswitch completely, and slowly rotate the valve on the selected tank counter-clockwise until an even flow of sand is obtained. Repeat the above procedure on the second tank.

    We have found the optimum setting for most abrasives is approximately one-quarter to one-half turn open from fully clockwise (closed).

11. Your Whirlwind Abrasive Blaster is now ready for operation.
1. VARIABLE PRESSURE FOOTSWITCH
2. RUBBER GLOVE (1 of 2)
3. ABRASIVE TANK INDICATORS
4. VIEWING LAMP SWITCH
5. ABRASIVE TANK (1 of 2)
6. TANK AIR PRESSURE CONTROL VALVE (1 of 2)
7. FILTER/REGULATOR ASSEMBLY
8. PRESSURE GAUGE
9. ABRASIVE PENCIL (1 of 2)
10. DOOR LATCH
11. DRAIN PLUG
12. ABRASIVE SELECTOR SWITCH (EXTERNAL VIEW)
13. DUST COLLECTOR PORT
14. AIR CONTROL VALVE LOCKING RING
15. TANK AIR CONTROL VALVE
16. ABRASIVE TANK SELECTOR
17. WORK/ABRASIVE PENCIL SHELF
18. 1.8 mm ABRASIVE TANK PENCIL
19. 1.2 mm ABRASIVE TANK PENCIL
OPERATION

1. Turn the internal Viewing Lamp “on” by depressing the VIEWING LAMP SWITCH located on the left side of the sandblaster.

2. Open the Door by lifting upward on the DOOR LATCH.

3. Place the item(s) to be sandblasted inside the unit, on the perforated screen at the bottom of the unit, or insert either hand into the appropriate glove and place the item(s) to be sandblasted in the fingers of the gloved hand.

   NOTE: Hemostats may also be used to hold items while they are being sandblasted.

4. Close the Door and latch it securely by depressing downward on the DOOR LATCH.

5. Place the Abrasive Tank Selector switch located at the rear of the abrasive blaster to the desired position.

   With the switch in the upward position, the light (silver) colored Abrasive Pencil will be activated; whereas with the switch in the downward position, the dark (brown) colored Abrasive Pencil is activated.

   Note that the light colored Abrasive Pencil is connected to the Abrasive Tank located on the left side of the abrasive blaster and the dark colored Abrasive Pencil is connected to the Abrasive Tank located on the right side of the unit.

6. Using one gloved hand, hold the item to be sandblasted and use the other gloved hand to hold and guide the desired Abrasive Pencil.

DRAINING THE ABRASIVE

The Whirlwind™ Abrasive Blaster is a non-recycling type of sandblaster which collects all used abrasive particles in the bottom of the unit. The used abrasive should be drained once the abrasive level at the bottom of the unit reaches the Perforated Shelf.

To drain the used abrasive, the procedure outlined below should be followed:

1. Hold the abrasive blaster over a waste receptacle and remove the Drain Plug from the rear of the unit. Allow the abrasive to drain from the unit, gently shaking the unit to make certain that all the abrasive material has been drained.

2. Once drained completely, replace the Drain Plug making certain that it is installed securely.

   NOTE: Refer to the warning at the front of this manual regarding the handling of abrasive materials.

CLEANING AND REPLACING THE FILTER ELEMENTS

On a periodic basis, the Whirlwind™ filter elements should be removed and cleaned by washing them in a mild detergent and water solution and should then be allowed to air dry.

The filter elements should be replaced if holes or tears develop.
REPLACING THE RUBBER GLOVES

1. With the front of the sandblaster facing you, locate the screw on the clamp which secures each Rubber Glove to the glove flange and loosen the screw by turning counter-clockwise. Remove the glove clamp and the Rubber Glove.

2. Pull the glove away from the glove flange.

3. Reverse this procedure to install the replacement Rubber Glove(s).

REPLACING THE VIEW GLASS

1. With the front of the sandblaster facing you, loosen and remove the six screws located around the door frame.

2. Open the Door by lifting upward on the DOOR LATCH and lift the View Glass away from the door frame.

3. Reverse this procedure to install the replacement View Glass, making certain that a gasket is installed on each side of the View Glass.

REPLACING THE VIEWING LAMP BULB

1. Unplug the Power Cord from your electrical outlet.

2. While facing the left side of the sandblaster, loosen and remove the four screws which secure the Viewing Lamp Assembly to the sandblaster housing. These screws are located along the outer edge of the Viewing Lamp Assembly mounting plate.

3. Slide the Viewing Lamp Assembly out of the sandblaster housing.

4. Unscrew the lamp enclosure by turning in a counter-clockwise direction.

5. Remove the lamp by depressing the lamp slightly and turn counter-clockwise.

6. Reverse this procedure to install the replacement lamp.
## WHIRLWIND™ ABRASIVE BLASTER RENEWAL PARTS LIST

<table>
<thead>
<tr>
<th>Jelenko Product No.</th>
<th>Part Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>330710</td>
<td>Line cord - 100/115V</td>
</tr>
<tr>
<td>330711</td>
<td>Line Cord - 230V</td>
</tr>
<tr>
<td>330712</td>
<td>Viewing Lamp Switch</td>
</tr>
<tr>
<td>330713</td>
<td>Viewing Lamp Bulb - 100/115V</td>
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<tr>
<td>330714</td>
<td>Viewing Lamp Bulb - 230V</td>
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<tr>
<td>330715</td>
<td>Viewing Lamp Enclosure</td>
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<tr>
<td>330719</td>
<td>Rubber Glove (set of 2)</td>
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<td>330723</td>
<td>Air Pressure Gauge</td>
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<tr>
<td>330724</td>
<td>Filter/Regulator Assembly</td>
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<td>330725</td>
<td>Rear Cover Clamp</td>
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<td>Rubber Glove Clamp</td>
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<td>Viewing Glass</td>
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<td>Door Assembly</td>
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<td>330730</td>
<td>Rubber Drain Plug</td>
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<tr>
<td>330760</td>
<td>1.2 mm Abrasive Pencil Tip</td>
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<td>330761</td>
<td>1.8 mm Abrasive Pencil Tip</td>
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<td>330762</td>
<td>Abrasive Tank Lid Assembly - $45/100</td>
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<td>330763</td>
<td>Air/Abrasive Pick-up Tube</td>
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<tr>
<td>330764</td>
<td>Abrasive Feed Tubing (4 feet)</td>
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<td>Air Feed Tubing (4 feet)</td>
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<td>Abrasive Tank Selector Switch</td>
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<td>Abrasive Tank Indicator</td>
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<td>330768</td>
<td>Variable Pressure Footswitch</td>
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<td>330750</td>
<td>Metal pick-up tubes qty(2)</td>
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<tr>
<td>330772</td>
<td>Dark Pencil (Brown) aluminum oxide (1.4 tip)</td>
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<tr>
<td>330773</td>
<td>Light Pencil (Silver) Glass Beads (1.8mm tip)</td>
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Note: The handwritten notes indicate additional parts with quantities and descriptions.