Owner’s Manual
Read this manual for complete instructions

Finishing Sprayer

Contents
2 Important Safety Information
4 Controls and Functions
5 Material Preparation
6 Assembly
7 Controls
8 Proper Spraying Technique
10 Cleanup
12 Maintenance
13 Troubleshooting
14 Parts List
16 Warranty

Questions?
Call Technical Service at:
1-888-783-2612

Double-insulated

0317 • Form No. 0529633B
Important Safety Information

Read all safety information before operating the equipment. Save these instructions.

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

To reduce the risks of fire or explosion, electrical shock and the injury to persons, read and understand all instructions included in this manual. Be familiar with the controls and proper usage of the equipment.

WARNING - To reduce the risk of fire or explosion:

1. Do not spray flammable or combustible materials near an open flame, pilot lights or sources of ignition such as hot objects, cigarettes, motors, electrical equipment and electrical appliances. Avoid creating sparks from connecting and disconnecting power cords.

2. For use with only water-based or mineral spirit-type materials with a minimum flash point of 100°F (38°C) — Do not spray or clean with liquids having a flash point of less than 100°F (38°C). Flash point is the temperature at which a fluid can produce enough vapor to ignite.

3. Verify that all containers and collection systems are grounded to prevent static discharge.

4. Do not use a paint or solvent containing halogenated hydrocarbons. Such as chlorine, bleach mildewcide, methylene chloride and trichloroethane. They are not compatible with aluminum. Contact the coating supplier about compatibility of material with aluminum.

5. Keep spray area well ventilated. Keep a good supply of fresh air moving through the area to keep the air within the spray area free from accumulation of flammable vapors. Keep pump assembly in well ventilated area. Do not spray pump assembly.

6. Do not smoke in the spray area.

7. Do not operate light switches, engines, or similar spark producing products in the spray area.

8. Keep area clean and free of paint or solvent containers, rags, and other flammable materials.

9. Know the contents of the paint and solvents being sprayed. Read all Material Safety Data Sheets (MSDS) and container labels provided with the paints and solvents. Follow the paint and solvent manufacture’s safety instructions.

10. Fire extinguisher equipment shall be present and working.
Important Safety Information

**WARNING - To reduce the risk of injury:**

1. Always wear appropriate gloves, eye protection, clothing and a respirator or mask when painting. Hazardous vapors – Paints, solvents, insecticides, and other materials can be harmful if inhaled or come in contact with body. Vapors can cause severe nausea, fainting or poisoning.

2. Do not operate or spray near children. Keep children away from equipment at all times.

3. Do not overreach or stand on an unstable support. Keep effective footing and balance at all times.

4. Stay alert and watch what you are doing.

5. Do not operate the unit when fatigued or under the influence of drugs or alcohol.

6. Never aim spray gun at any part of the body.

7. Follow all appropriate local, state, and national codes governing ventilation, fire prevention, and operation.

8. The United States Government Safety Standards have been adopted under the Occupational Safety and Health Act (OSHA). These standards, particularly part 1910 of the General Standards and part 1926 of the Construction Standards should be consulted.

9. Use only manufacturer authorized parts. User assumes all risks and liabilities when using parts that do not meet the minimum specifications and safety devices of the turbine manufacturer.

10. Do not spray outdoors on windy days.

11. Hose may become hot and cause skin burn.

12. Use only Rockler HVLP hose.

**Important Electrical Information**

Use only an extension cord that will accept the plug on the product. Make sure your extension cord is in good condition. When using an extension cord, be sure to use one heavy enough to carry the current your product will draw. An undersized cord will cause a drop in line voltage resulting in loss of power and overheating. A 14 AWG minimum cord is recommended. Outdoor extension cords should be used with outdoor use products and are surface marked with suffix letter “W” and with a tag stating “Suitable for Use Outdoors”. The connection of the cord should be kept dry and off the ground.

This appliance has a polarized plug (one blade is wider than the other). To reduce the risk of electric shock, this plug is intended to fit in a polarized outlet only one way. If the plug does not fit fully in the outlet, reverse the plug. If it still does not fit, contact a qualified electrician. Do not modify the plug in any way. When servicing, only use identical service parts. Contact WAGNER for a replacement cordset.

**IMPORTANT: Household use only. Intended for indoor/outdoor use ONLY with materials having flashpoint above 100ºF (38ºC).**

**Servicing of a double-insulated product**

In a double-insulated product, two systems of insulation are provided instead of grounding. No grounding means is provided on a double-insulated product, nor should a means for grounding be added to the product. Servicing of a double-insulated product requires extreme care and knowledge of the system, and should be done only by qualified service personnel. Replacement parts for a double-insulated product must be identical to those parts in the product.

**WARNING - To reduce the risk of electric shock:**

1. Never submerge electrical parts.

2. Never expose the equipment to rain. Store indoors.

3. Keep electrical cord plug and spray gun trigger free from paint and other liquids. Never hold the cord at plug connections to support the cord. Failure to observe may result in an electrical shock.
**Material Flow Dial**
The material flow dial determines the amount of spray material that is sprayed from the spray gun. See page 7 for more details.

**ON/OFF switch:**
The ON/OFF switch turns power to the turbine on and off. The ON/OFF switch is located on top of the carrying handle of the turbine.

**Spray Direction Lever**
The spray direction lever swivels the air cap, which controls the orientation of the spray pattern. See page 7 for more details.

**Needle Selection**
The size of spray needle you use depends upon your spray project and material you plan to use.

**1.5 mm Needle**
The 1.5 mm needle is great for fine finishing and small surface projects. The 1.5 mm needle leaves a smooth finish and is ideal for woodworking, small decks and fences, craft projects, cabinets, furniture and trim.

**2.5 mm Needle**
The 2.5 mm needle is great for thicker materials and broad surface coverage. The 2.5 mm needle is ideal for sheds, decks, fences and interior walls.
**Material Preparation**

**Note:** Material to be sprayed may need to be strained to remove any impurities in the paint which may clog the system. Impurities in the paint will give poor performance and a poor finish.

**Thinning the material**

Thinning the spray material results in faster spraying, a better finish and less material usage.

- Thin chalk, milk, latex and other thicker decorative paints with water
- Oil-based materials need to be thinned with mineral spirits (use about half as much as water).
- Transparent/semi-transparent stains, clear topcoats, urethanes, and lacquers do not typically require thinning.

**Note:** Never exceed the thinning advice given by the coating manufacturer.

⚠️ **Do not thin with materials that have a flashpoint below 100°F (38°C). The material flashpoint should be shown on the material container.**

1. Stir the spraying material thoroughly.
2. Unscrew the container from the spray gun.
3. After the material has been properly thinned and strained, fill the container to desired level.
**Assembly**

**Before you begin**

NEVER point the spray gun at any part of the body.

**To Assemble**

**IMPORTANT: Make sure the power cord is unplugged.**

1. Insert the foam seal and pickup tube into the intake opening.

2. **Align the suction tube** -
   - **A.** If you are going to be spraying in a horizontal or downward direction, the angled end of the pickup tube should be pointing toward the front of the gun.
   - **B.** If you are going to be spraying in an horizontal or upward direction, the angled end of the pickup tube should be pointing toward the rear of the gun.

**Note:** Make sure the pickup tube is inserted as far as it will go to ensure a tight fit.

3. After filling with spray material, carefully screw the cup back onto the spray gun assembly. Tighten firmly.

4. Insert the air hose tightly into the connection on the spray gun.

5. Insert the air hose tightly into the connection into the turbine.
**Material Flow Control**

The material flow dial controls the amount of spray material that is sprayed from the spray gun. Set the material volume by turning the dial on the back of the spray gun.

**Tip:** Spraying with the dial set too high will result in a spray pattern that runs and sags (too much material).

**Tip:** Spraying with the dial set too low will result in a spray pattern that does not cover (not enough material).

---

**Material Settings Guide**

<table>
<thead>
<tr>
<th>Coating</th>
<th>2.5 mm needle</th>
<th>1.5 mm needle</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Material Flow</td>
<td>Material Flow</td>
</tr>
<tr>
<td>Transparent / semi-transparent stains, sealers</td>
<td>N/A</td>
<td>Med</td>
</tr>
<tr>
<td>Lacquers (water based)</td>
<td>N/A</td>
<td>Med</td>
</tr>
<tr>
<td>Solid stains</td>
<td>Med</td>
<td>Med</td>
</tr>
<tr>
<td>Polyurethane</td>
<td>Low</td>
<td>Med/High</td>
</tr>
<tr>
<td>Oil enamels</td>
<td>High</td>
<td>High</td>
</tr>
<tr>
<td>Latex paints plus primers, Latex paints</td>
<td>High</td>
<td>N/A</td>
</tr>
<tr>
<td>Oil or latex primers</td>
<td>High</td>
<td>N/A</td>
</tr>
<tr>
<td>Chalk type</td>
<td>Med</td>
<td>Med*</td>
</tr>
<tr>
<td>Milk paint</td>
<td>Med</td>
<td>Med*</td>
</tr>
</tbody>
</table>

*Thinning may be necessary*
Controls (continued)

**Spray Direction Lever**

The spray pattern shape is adjusted by turning the spray direction lever to either the vertical, horizontal or diagonal positions. Test each pattern and use whichever pattern is suitable for your application.

Never trigger the gun while adjusting the spray direction lever. Never point the spray gun at any part of the body.

- **Horizontal pattern**
  Use ‘up and down’ spraying motion

- **Vertical pattern**
  Use ‘side to side’ spraying motion

- **Round (detail) pattern**
  Use ‘up and down’ or ‘side to side’ spraying motion
  For narrow surfaces (chair legs, spindles)

**Large Surface Projects**

Generally, high material flow and air power are needed for spraying large surface areas, such as walls and decks (use 2.5 mm needle)

- The air cap position will determine the movement direction of the spray gun (use 1.5 mm needle).

**Small Surface Projects**

Generally, low material flow is needed for spraying smaller surface areas, such as corners, lattice, or spindles.

For this type of project, reduce material flow and set the spray direction lever to diagonal.
Proper Spraying Technique

The project or area you are spraying must be properly masked in order to prevent overspray from landing on any areas it is not wanted.

Practice on a piece of scrap wood or cardboard before beginning on your intended workpiece and/or test with water.

Spray Area Preparation
The spray area must be clean and free of dust in order to avoid blowing dust onto your freshly sprayed surface.

How to Spray Properly

It is important to keep your arm moving whenever the gun is being triggered. If you pause or linger in one spot too long, too much material will be sprayed to the surface.

• If using a 2.5 mm needle:
  Position the spray gun perpendicular to and six (6) inches from the spray surface.

• If using a 1.5 mm needle:
  Use the same technique as above, but decrease the spraying distance to 3-6 inches.

• Spray parallel to the surface with smooth passes at a consistent speed as illustrated below.

  • For fine finish, apply a thin coat of material on the first pass and allow to dry before applying a second coat.

  • Overlap each spray pass by at least 50% This will ensure full coverage.
  • When spraying, start moving the gun then pull the trigger. Release the trigger before stopping at the end of the pass.

  Note: When you quit spraying for any length of time, turn the turbine OFF.

  When you restart, wipe the nozzle with a damp cloth to remove any dried paint.
Quick-Cleanup

Note: For basic, quick-cleaning between color changes, fill the material container with cleaning solution and spray cleaning solution through the gun into a waste container.

Before you begin

When cleaning, use the appropriate cleaning solution (warm, soapy water for chalk-type paint, milk paint, and latex materials; mineral spirits for oil-based materials)

IMPORTANT: Never clean air cap or air holes in the nozzle with sharp metal objects. Do not use solvents or lubricants containing silicone.

Special cleanup instructions for use with flammable solvents (must have a flashpoint above 100°F (38°C):

- Always flush spray gun outside.
- Area must be free of flammable vapors.
- Cleaning area must be well-ventilated.
- Do not submerge turbine!

To Quick Clean

1. Turn turbine OFF.
2. Remove the container and empty any remaining material.
3. Thoroughly rinse the material container with warm, soapy water (or mineral spirits for oil-based materials).
4. Fill the material container with cleaning solution and spray cleaning solution through the gun into a waste container.

IMPORTANT: If you quick-cleaned the sprayer using mineral spirits, repeat steps 1-4 using warm, soapy water.

Move on to “Cleanup - Cleaning the Gun”, next page for more thorough cleaning.
Cleaning the Gun

To Clean the Spray Gun

1. Make sure power cord is unplugged. Remove the air hose from the rear of the spray gun.
2. Remove the container, pickup tube and seal. Empty the container of any leftover material.
   Clean all parts with a cleaning brush and the appropriate cleaning solution.
   Using the cleaning brush, clean the inside of the body of the spray gun.
3. Unscrew the air cap ring (a). Remove the air cap (b) and spray direction lever (c).
4. Pull the trigger to release the fluid tip (d). Using the pincer end of the needle and fluid tip tool, remove the fluid tip.
5. Using the other end of the tool, twist counterclockwise and remove the needle (e). Run water or cleaning solution through the gun cavities and over the removed parts.

   Note: Allow all parts to dry completely before reassembly.

6. Reassemble the spray gun by reversing the steps above.

   Note: Ensure that the spray direction lever moves freely. If necessary, slightly loosen the air cap ring.

   Note: Make sure all cavities on the underside of the spray gun are clean and debris-free. Any remaining spray material in these areas can affect spray performance.
### Cleaning the Filter

**IMPORTANT:** Before every use, you should inspect the air filter in the turbine to see if it is dirty. If it is dirty, follow these steps to replace it.

**IMPORTANT:** Never operate your unit without the air filter. Dirt could be sucked in and interfere with the function of the unit.

1. Lift up on the tabs on the filter housing and remove.
2. Remove the dirty filter from the turbine and replace with a new one. The smooth side of the air filter must be placed toward the turbine. Secure the cover back onto the turbine.
## Troubleshooting

<table>
<thead>
<tr>
<th>PROBLEM</th>
<th>CAUSE</th>
<th>SOLUTION</th>
</tr>
</thead>
</table>
| Problem A: Little or no material flow | 1. Needle clogged.  
2. Pickup tube clogged.  
3. Material flow setting too low.  
4. Pickup tube loose.  
5. No pressure build up in container.  
6. Air filter clogged.  
7. Spray material too thick. | 1. Clean.  
2. Clean.  
3. Increase material flow setting.  
4. Remove and replace as tightly as possible.  
5. Tighten container.  
6. Change  
7. Thin* |
| Problem B: Material leaking | 1. Needle loose.  
2. Needle worn.  
3. Material build-up on fluid tip and needle. | 1. Tighten.  
2. Replace.  
3. Clean |
| Problem C: Spray pattern too thick, runs and sags | 1. Material flow setting too high.  
2. Applying too much material.  
3. Needle clogged.  
4. Air filter clogged.  
5. Too little pressure build-up in container.  
6. Spray material too thick. | 1. Decrease material flow setting.  
2. Adjust material flow or increase movement of spray gun.  
3. Clean.  
5. Tighten container.  
6. Thin* |
| Problem D: Spray jet pulsates | 1. Material in container running out.  
2. Change |
| Problem E: Too much overspray | 1. Gun too far from spray object. | 1. Reduce distance (6”-8” is ideal). |
| Problem F: Pattern is very light and splotchy | 1. Moving the spray gun too fast.  
2. Material flow setting too low. | 1. Adjust material flow or decrease movement of spray gun.  
2. Increase material flow setting. |

Have you tried the recommendations above and are still having problems? To speak to a customer service representative, call our Technical Service at 1-888-783-2612.

See www.wagnerspraytech.com in the “Contact Us” section for Technical Service hours.
This unit contains no servicable electrical parts. Do not attempt to service yourself.
Store indoors with the cord wrapped around the turbine handle.

<table>
<thead>
<tr>
<th>#</th>
<th>Part No.</th>
<th>Description</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td>Turbine (includes item 2)</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>0V0377</td>
<td>Filter</td>
<td>2</td>
</tr>
<tr>
<td>3</td>
<td>0L2249</td>
<td>Air hose</td>
<td>1</td>
</tr>
</tbody>
</table>

Replacement parts available by calling customer service

1-888-783-2612
### Parts List

<table>
<thead>
<tr>
<th>#</th>
<th>Part No.</th>
<th>Description</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2369177</td>
<td>Spray gun assembly (includes items 1-9)</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>0V0001</td>
<td>Air cap ring</td>
<td>1</td>
</tr>
<tr>
<td>3</td>
<td>0V0002</td>
<td>Air cap</td>
<td>1</td>
</tr>
<tr>
<td>4</td>
<td>0V0003</td>
<td>Spray direction lever</td>
<td>1</td>
</tr>
<tr>
<td>5</td>
<td></td>
<td>Fluid tip (1.5mm)</td>
<td>1</td>
</tr>
<tr>
<td>6</td>
<td></td>
<td>Needle (1.5mm)</td>
<td>1</td>
</tr>
<tr>
<td>7</td>
<td>0HVMAC7US</td>
<td>Material container (32 oz.)</td>
<td>1</td>
</tr>
<tr>
<td>8</td>
<td>0L0682</td>
<td>Seal</td>
<td>1</td>
</tr>
<tr>
<td>9</td>
<td>0HVACC31</td>
<td>Pickup tube</td>
<td>1</td>
</tr>
<tr>
<td>10</td>
<td>0V0018</td>
<td>Fluid tip and needle tool</td>
<td>1</td>
</tr>
<tr>
<td>11</td>
<td>2353925</td>
<td>1.5 mm needle kit (includes items 5-6)</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>2353987</td>
<td>2.5 mm needle kit (includes item 10)</td>
<td>1</td>
</tr>
</tbody>
</table>
Limited Warranty

HVLP paint spray equipment

This product, manufactured by Wagner Spray Tech Corporation (Wagner), is warranted against defects in material and workmanship for one year following date of purchase if operated in accordance with Wagner’s printed recommendations and instructions. This warranty does not cover damage resulting from improper use, accidents, user’s negligence or normal wear. This warranty does not cover any defects or damages caused by service or repair performed by anyone other than a Wagner Authorized Service Center.

ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE IS LIMITED TO one year following date of purchase. WAGNER SHALL NOT IN ANY EVENT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES OF ANY KIND, WHETHER FOR BREACH OF THIS WARRANTY OR ANY OTHER REASON. THIS WARRANTY DOES NOT APPLY TO ACCESSORIES.

THIS PRODUCT IS DESIGNED FOR HOME USAGE ONLY. IF USED FOR COMMERCIAL OR RENTAL PURPOSES, THIS WARRANTY APPLIES ONLY FOR 30 DAYS FROM DATE OF PURCHASE.

If any product is defective in material and/or workmanship during the applicable warranty period, return it with proof of purchase, transportation prepaid to any Wagner Authorized Service Center. (Service Center listing is enclosed with this product.) Wagner’s Authorized Service Center will either repair or replace the product (at Wagner’s option) and return it to you, postage prepaid.

SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS OR THE EXCLUSION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION AND EXCLUSION MAY NOT APPLY TO YOU. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.

Questions?

Call Technical Service at:
1-888-783-2612

See www.wagnerspraytech.com in the “Contact Us” section for Technical Service hours.

Product Registration

In order to register your product today, visit:
www.wagnerspraytech.com/registration

We value your opinion. To complete your review, please visit:
www.wagnerspraytech.com/reviews