

Owner's Manual & Safety Instructions

Save This Manual Keep this manual for the safety warnings and precautions, assembly, operating, inspection, maintenance and cleaning procedures. Write the product's serial number in the back of the manual near the assembly diagram (or month and year of purchase if product has no number). Keep this manual and the receipt in a safe and dry place for future reference.

21b

AVANTI™

PORTABLE HVLP PAINT & STAIN SPRAYER

NOTICE

CLEAN IMMEDIATELY

Clean the Spray Gun IMMEDIATELY after EVERY use and when it will be idle for more than 30 minutes.

Delayed or inadequate cleaning will permanently clog the Spray Gun.



Visit our website at: <http://www.harborfreight.com>
Email our technical support at: productsupport@harborfreight.com

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When unpacking, make sure that the product is intact and undamaged. If any parts are missing or broken, please call 1-888-866-5797 as soon as possible.

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⚠ WARNING

Read this material before using this product. Failure to do so can result in serious injury.
SAVE THIS MANUAL.

NOTICE

Clean the Spray Gun Body and Cup **IMMEDIATELY** after **EVERY** use and when it will be idle for more than 30 minutes. Delayed or inadequate cleaning will permanently clog the Spray Gun. Water-based paint hardens quickly and permanently inside Spray Gun.

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AVANTI™

WARNING SYMBOLS AND DEFINITIONS

	This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.
	Indicates a hazardous situation which, if not avoided, will result in death or serious injury.
	Indicates a hazardous situation which, if not avoided, could result in death or serious injury.
	Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.
	Addresses practices not related to personal injury.

IMPORTANT SAFETY INSTRUCTIONS

Personal Safety

- Stay alert. Watch what you are doing and use common sense when operating the tool. Do not use the tool while tired or under the influence of drugs, alcohol, or medication.** A moment of inattention while operating the tool increases the risk of injury to persons.
- Dress properly. Do not wear loose clothing or jewelry. Contain long hair. Keep hair, clothing, and gloves away from moving parts.** Loose clothes, jewelry, or long hair increases the risk of injury to persons as a result of being caught in moving parts.
- Do not overreach. Keep proper footing and balance at all times.** Proper footing and balance enables better control of the tool in unexpected situations.

NOTICE

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4.



Use safety equipment.

Wear protective paint spraying gloves and a NIOSH-approved respirator during use. Non-skid safety shoes and a hard hat must be used for

the applicable conditions.

5.



Always wear eye protection.

Wear ANSI-approved safety goggles.

Tool Use and Care

- a. **Do not force the tool.** Use the correct tool for the application. The correct tool will do the job better and safer at the rate for which the tool is designed.
- b. **Unplug the tool before making any adjustments, changing accessories, or storing the tool.** Such preventive safety measures reduce the risk of starting the tool unintentionally. Turn off and detach the air supply, safely discharge any residual air pressure, and release the throttle and/or turn the switch to its off position before leaving the work area.
- c. **Store the tool when it is idle out of reach of children and other untrained persons.** A tool is dangerous in the hands of untrained users.
- d. **Check for misalignment or binding of moving parts, breakage of parts, and any other condition that affects the tool's operation.** If damaged, have the tool serviced before using. Many accidents are caused by poorly maintained tools. There is a risk of bursting if the tool is damaged.
- e. **Use only accessories that are identified by the manufacturer for the specific tool model.** Use of an accessory not intended for use with the specific tool model, increases the risk of injury to persons.

Service

- a. **Tool service must be performed only by qualified repair personnel.**
- b. **When servicing a tool, use only identical replacement parts. Use only authorized parts.**
- c. **Use only lubricants supplied with the tool or specified by the manufacturer.**

Specific Safety Instructions

1. **To reduce the risk of electric shock, do not expose to rain. Store indoors.**
2. **Risk of Explosion – Do not spray flammable liquids.**
3. Do not direct spray at people or animals.
4. Read all of the information concerning coating products and cleaning solvents. **Do not use chlorinated solvents (e.g. 1-1-1 trichloroethylene and dichloromethane, also known as methylene chloride) to clean spray guns. Many spray guns contain aluminum, which reacts strongly to chlorinated solvents. Contact the solvent or coating manufacturer as needed regarding potential chemical reactions.**
5. Risk of injection—Do not point spray gun at any person or any part of the body. In case of skin injection, seek medical attention immediately.
6. Spraying hazardous materials may result in serious injury or death. Do not spray pesticide, acid, corrosive material, fertilizer, or toxic chemicals.
7. Paints and solvents may be harmful or fatal if swallowed or inhaled. Avoid prolonged skin contact with solvents or paints as they will irritate skin. After any contact, immediately wash off exposed area with hot, soapy water.
8. Attach all accessories properly to the tool before plugging in the tool. A loose accessory may detach or break during operation.
9. Maintain labels and nameplates on the tool. These carry important safety information. If unreadable or missing, contact Harbor Freight Tools for a replacement.
10. Avoid unintentional starting. Prepare to begin work before turning on the tool.

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11. Do not leave the tool unattended when it is plugged into an electrical outlet. Turn off the tool, and unplug it from its electrical outlet before leaving.
12. This product is not a toy. Keep it out of reach of children.
13. People with pacemakers should consult their physician(s) before use. Electromagnetic fields in close proximity to heart pacemaker could cause pacemaker interference or pacemaker failure. In addition, people with pacemakers should:
 - Avoid operating alone.
 - Do not use with power switch locked on.
 - Properly maintain and inspect to avoid electrical shock.
 - Properly ground power cord. Ground Fault Circuit Interrupter (GFCI) should also be implemented – it prevents sustained electrical shock.
14. The warnings, precautions, and instructions discussed in this instruction manual cannot cover all possible conditions and situations that may occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator.



SAVE THESE INSTRUCTIONS.

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Symbol Definitions

Symbol	Property or Statement
	Double Insulated
VAC	Volts Alternating Current
A	Amperes
	WARNING marking concerning Risk of Eye Injury. Wear ANSI-approved eye protection.
	WARNING marking concerning Risk of Respiratory Injury. Wear NIOSH-approved respirator.

Symbol	Property or Statement
	WARNING marking concerning Risk of Explosion.
	WARNING marking concerning Risk of Fire. Do not use solvents improperly.
	WARNING marking concerning Risk of Electric Shock. Properly connect power cord to appropriate outlet.

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Grounding

⚠ WARNING



TO PREVENT ELECTRIC SHOCK AND DEATH FROM INCORRECT GROUNDING WIRE CONNECTION:

Check with a qualified electrician if you are in doubt as to whether the outlet is properly grounded. Do not modify the power cord plug provided with the tool. Never remove the grounding prong from the plug. Do not use the tool if the power cord or plug is damaged. If damaged, have it repaired by a service facility before use. If the plug will not fit the outlet, have a proper outlet installed by a qualified electrician.

Double Insulated Tools: Tools with Two Prong Plugs

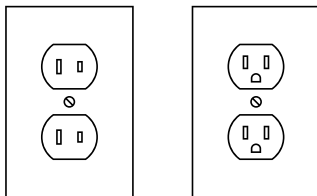


Figure A: Outlets for 2-Prong Plug

1. Tools marked "Double Insulated" do not require grounding. They have a special double insulation system which satisfies OSHA requirements and complies with the applicable standards of Underwriters Laboratories, Inc., the Canadian Standard Association, and the National Electrical Code.
2. Double insulated tools may be used in either of the 120 volt outlets shown in the preceding illustration. **(See Figure A.)**
3. This appliance has a polarized plug (one blade is wider than the other). This plug will 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 to install the proper outlet. Do not change the plug in any way.

Extension Cords

1. Grounded tools require a three wire extension cord. Double Insulated tools can use either a two or three wire extension cord.
2. As the distance from the supply outlet increases, you must use a heavier gauge extension cord. Using extension cords with inadequately sized wire causes a serious drop in voltage, resulting in loss of power and possible tool damage. **(See Table A.)**
3. The smaller the gauge number of the wire, the greater the capacity of the cord. For example, a 14 gauge cord can carry a higher current than a 16 gauge cord. **(See Table A.)**
4. When using more than one extension cord to make up the total length, make sure each cord contains at least the minimum wire size required. **(See Table A.)**
5. If you are using one extension cord for more than one tool, add the nameplate amperes and use the sum to determine the required minimum cord size. **(See Table A.)**

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1. If you are using an extension cord outdoors, make sure it is marked with the suffix "W-A" ("W" in Canada) to indicate it is acceptable for outdoor use.
2. Make sure the extension cord is properly wired and in good electrical condition. Always replace a damaged extension cord or have it repaired by a qualified electrician before using it.
3. Protect the extension cords from sharp objects, excessive heat, and damp or wet areas.

Table A: Recommended Minimum Wire Gauge for Extension Cords* (120/240 Volt)					
NAMEPLATE AMPERES (at full load)	EXTENSION CORD LENGTH				
	25'	50'	75'	100'	150'
0 – 2.0	18	18	18	18	16
2.1 – 3.4	18	18	18	16	14
3.5 – 5.0	18	18	16	14	12
5.1 – 7.0	18	16	14	12	12
7.1 – 12.0	18	14	12	10	-
12.1 – 16.0	14	12	10	-	-
16.1 – 20.0	12	10	-	-	-
* Based on limiting the line voltage drop to five volts at 150% of the rated amperes.					

Specifications

Electrical Rating	120VAC/60Hz/8.5A	
Cup Capacity	1.0mm Finish - 32 fl. oz.	3.0mm Paint - 48 fl. oz.

HOUSEHOLD USE ONLY.

SAFETY

SETUP

OPERATION

MAINTENANCE

NOTICE

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Set-Up: Before Use

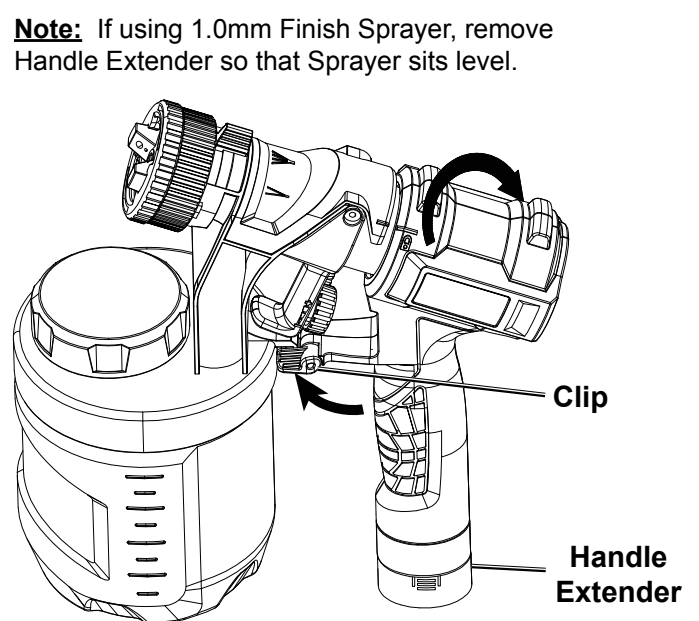
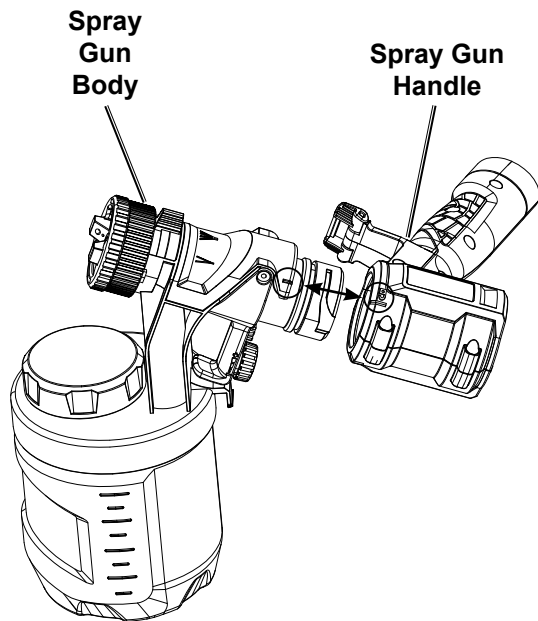


Read the **ENTIRE** IMPORTANT SAFETY INFORMATION section at the beginning of this manual including all text under subheadings therein before set up or use of this product.

Assemble Spray Gun

ONLY USE 32oz CUP WITH 1.0 FINISH SPRAY GUN.
ONLY USE 48oz CUP WITH 3.0 PAINT SPRAY GUN.

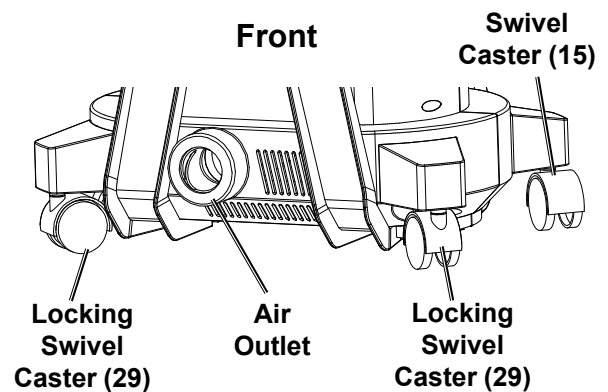
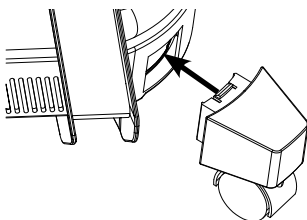
1. Line up marking on Spray Gun Body to marking on Spray Gun Handle.
2. Turn Spray Gun Handle clockwise until it locks with Spray Gun Body.
3. Push Clip forward until it clicks to attach Spray Gun Handle and Spray Gun Body together.



Note: If using 1.0mm Finish Sprayer, remove Handle Extender so that Sprayer sits level.

Attach Casters

1. Attach two Locking Swivel Casters (29) to the front (air outlet side).
2. Attach two Swivel Casters (15) to the back (power cord side).

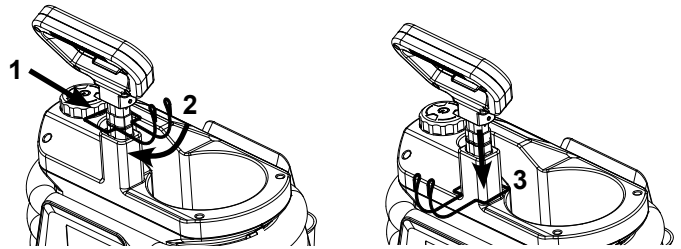


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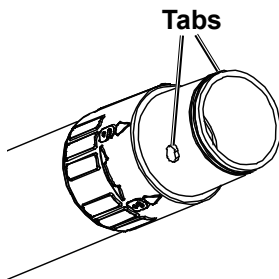
Attach Storage Hook

1. Slide Storage Hook over narrow part of handle.
2. Rotate Storage Hook 90°.
3. Slide Storage Hook down over thick part of handle.

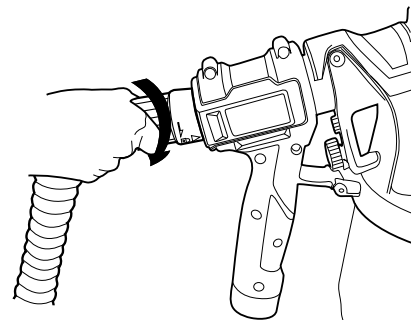
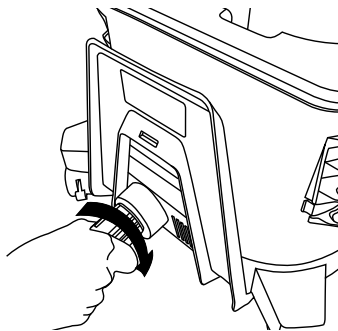


Attach Air Hose

1. Add a small amount of petroleum jelly to the two tabs on hose connector.
2. Attach one end of Air Hose to Air Outlet by lining up the tabs to the grooves inside the Inlet. Turn the Air Hose clockwise until it is securely in place.
3. Add a small amount of petroleum jelly to the two tabs on other hose connector.
4. Attach other end of Air Hose to Spray Gun air inlet by lining up the tabs to the grooves inside the Inlet. Turn the Air Hose clockwise until it is securely in place.

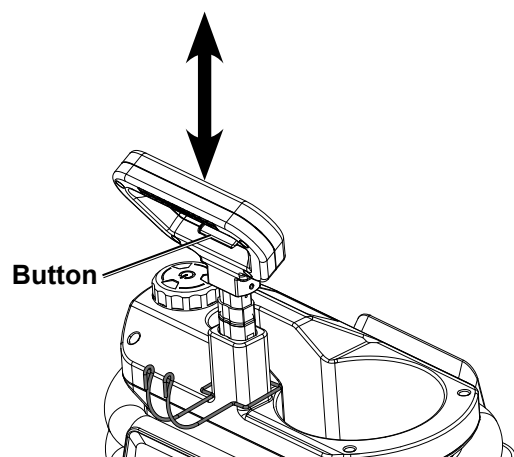


2. Attach one end of Air Hose to Air Outlet by lining up the tabs to the grooves inside the Inlet. Turn the Air Hose clockwise until it is securely in place.



Adjust Handle

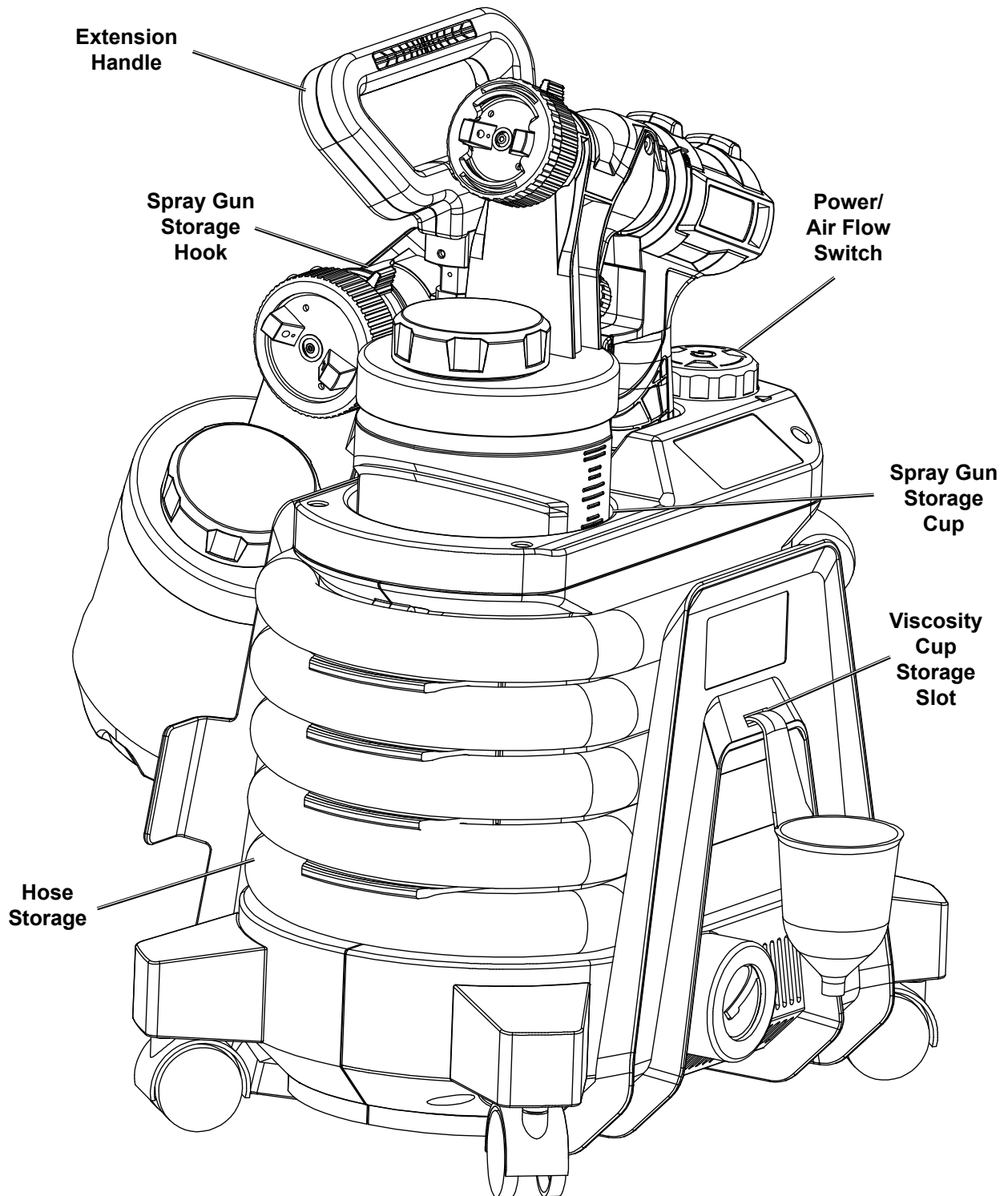
1. Press Button and raise or lower Handle.



NOTICE

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Components



SAFETY

SETUP

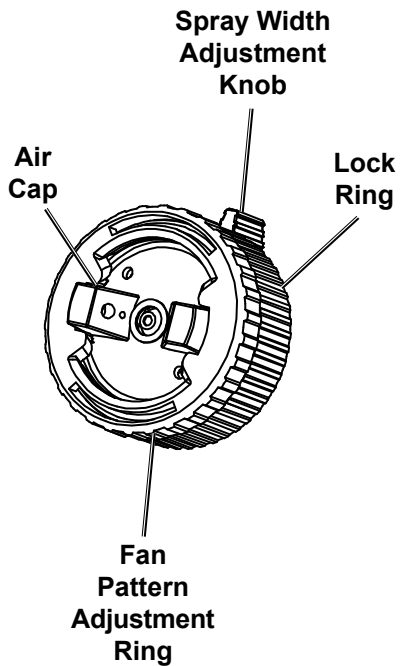
OPERATION

MAINTENANCE

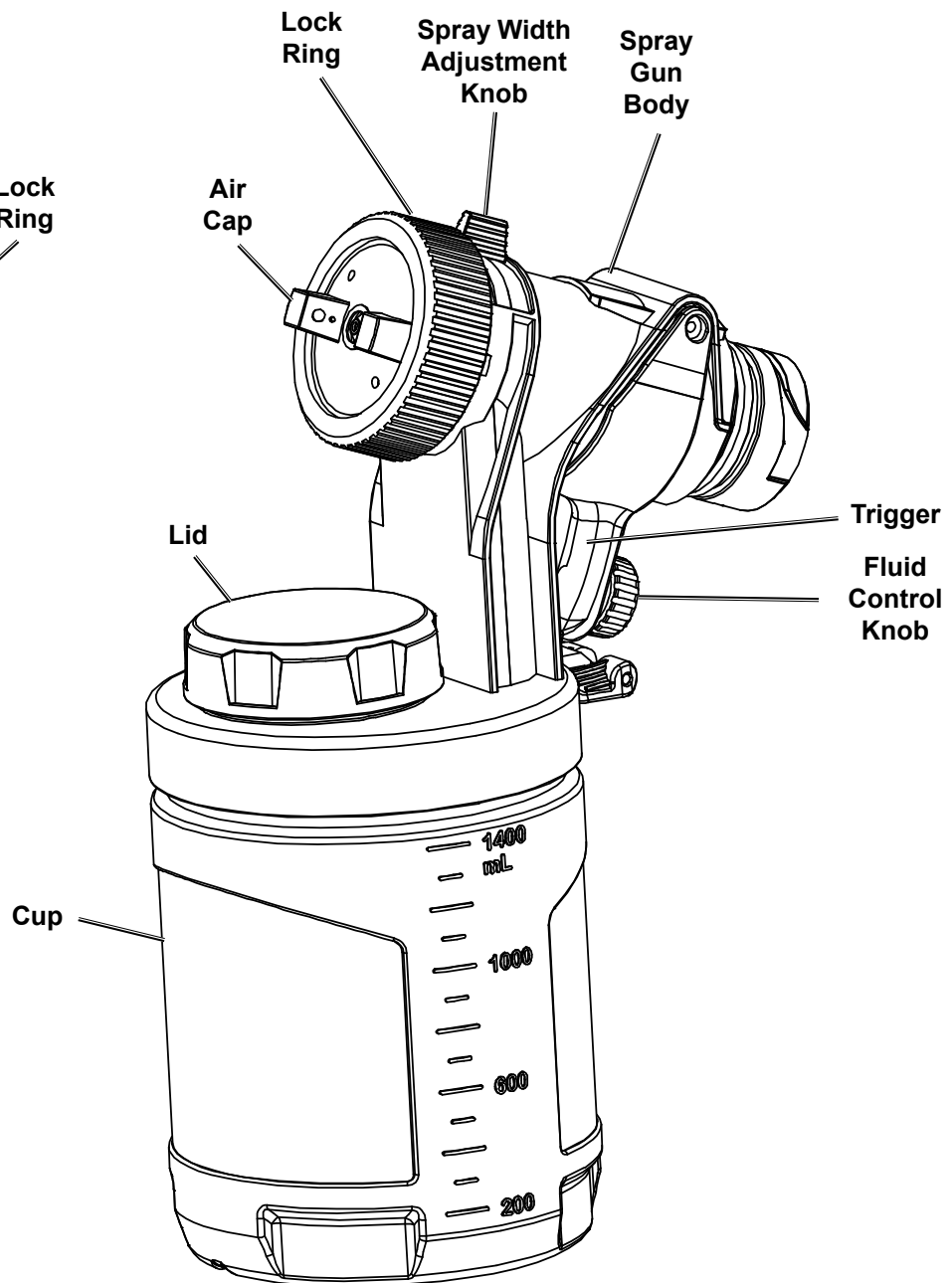
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1.0 mm Sprayer



3.0 mm Sprayer



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Operating Instructions



Read the **ENTIRE** IMPORTANT SAFETY INFORMATION section at the beginning of this manual including all text under subheadings therein before set up or use of this product.

Inspect tool before use, looking for damaged, loose, and missing parts. If any problems are found, do not use tool until repaired. Damaged or missing parts can increase risk of electric shock.

Workpiece and Work Area Set Up

1. Designate a work area that is clean and well lit. The work area must not allow access by children or pets to prevent distraction and injury.
2. Before spraying, mask nearby objects not being sprayed and lay cloths (not included) on the floors.

Spray Gun Setup and Adjustment

Material Preparation and Filling



**RISK OF EXPLOSION -
DO NOT SPRAY FLAMMABLE LIQUIDS.**

Note: This Spray Gun can only be used for spraying water-based or oil-based low viscosity paints, stains and varnishes.

3.0mm Sprayer - For thick materials, such as latex paint, where thinning is normally required.

1.0mm Sprayer - For thin materials, such as stain.

IMPORTANT! Before THINNING, check the viscosity of FLUID.

1. Carefully strain the material through a paint strainer or a piece of cheesecloth.
2. Fully submerge the included Viscosity Cup into the material.
3. Lift the Cup out of the material and time how many seconds it takes for it to completely run out of the cup.

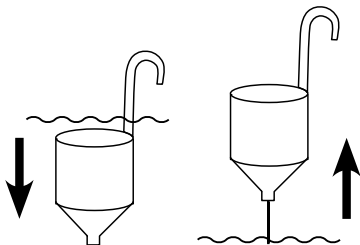
4. Refer to Viscosity Chart for recommended time for different materials.

Material	Time in seconds	
	1.0mm	3.0mm
Water-Based Paint	< 50	<100
Primer		
Oil-Based Paint		
Varnish		
Sealer		
Wood Stain		

Viscosity Chart

Note: Proper material mixture is essential. Follow the manufacturer's directions for thinning instructions. Most materials will spray easily if they are thinned properly.

5. If necessary, thin the material according to manufacturer's directions and mix thoroughly.
6. Check viscosity. Thin and check until proper viscosity is achieved.
7. Remove Cup's Lid.
8. Fill the Cup no higher than:
 - a. **3.0mm Sprayer** - 48 oz. mark
 - b. **1.0mm Sprayer** - 32 oz. mark
9. Replace Cup's Lid. Securely tighten Cup and Lid.



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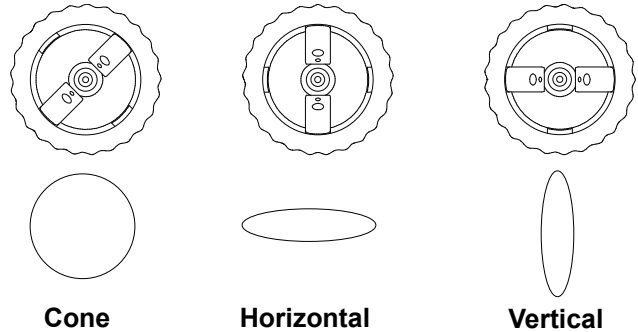
Fan Pattern

3.0mm Sprayer

1. Loosen Lock Knob
2. Turn Air Cap until desired pattern is selected.
3. Tighten Lock Knob.

1.0mm Sprayer

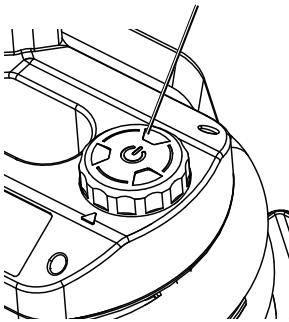
4. Turn Fan Pattern Adjustment Ring until desired pattern is selected.



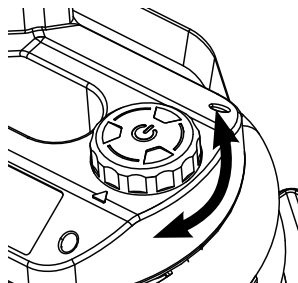
Test Spray

1. Plug the unit into an electrical outlet.
2. Press Power Switch.

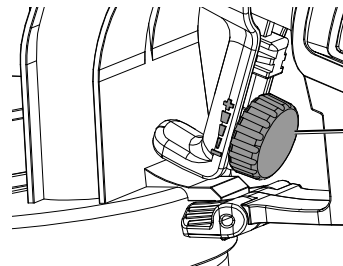
**Power Switch/
Airflow Control
Knob**



3. Spray on piece of scrap material in short bursts, then check consistency.
4. Adjustments:
 - a. Airflow - Turn Airflow Control Knob clockwise until it stops for maximum air flow. To reduce overspray, turn counterclockwise to decrease airflow.



- b. Fluid Control - Turn Fluid Control Knob clockwise to increase fluid and counterclockwise to decrease fluid.



**Fluid
Control
Knob**



**Too Coarse
(Decrease
Fluid)**

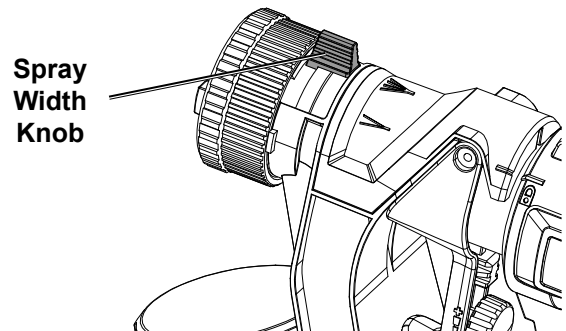


Correct



**Too Fine
(Increase
Fluid)**

- c. Spray Width - Turn Spray Width Knob to the right to increase width and to the left to decrease width.



**Spray
Width
Knob**

NOTICE

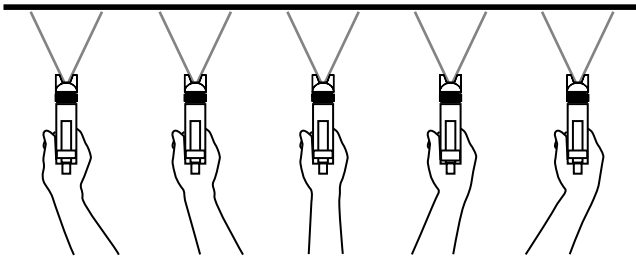
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Spraying Technique

When first filled, the sprayer may take up a short time after the trigger is depressed to prime and start spraying.

IMPORTANT: Proper spraying technique is **ESSENTIAL** to achieve good results.

1. First, prepare the Spray Gun according to the instructions under **Spray Gun Setup and Adjustment** on page 12.
2. Keep the Spray Gun upright and at a right angle to the workpiece - See Figure B.



Correct Gun Angle

Move your arm, not just your wrist.
Point gun directly towards the surface and maintain an even, steady distance and speed.

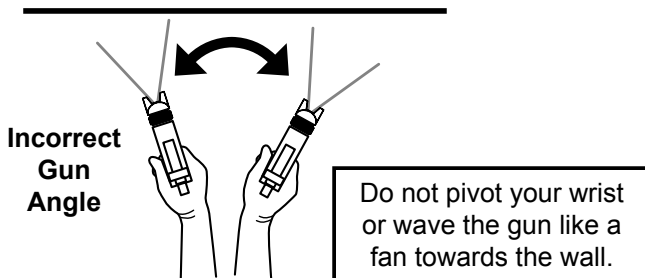


Figure B: Spray Gun Angle - top view

NOTICE: Do not stop when spraying. Spraying materials will start to set and dry as soon as they come in contact with the air. To avoid clogs, check Nozzle regularly for dried paint and remove with a cloth as needed.

3. Depress Trigger fully and move Spray Gun in parallel strokes to the workpiece.
4. Keep the distance from the workpiece between 2" and 12".

5. To avoid paint build up:

- a. Apply two thin coats rather than one thick coat. Overlap 1/3 to 1/2 on second coat.
- b. Start moving the Spray Gun before fully depressing Trigger.
- c. Fully depress Trigger before contacting the workpiece.
- d. When finished with the stroke, release the Trigger while still moving the Spray Gun and after passing the workpiece - see Figure C.

Note: Doing this will produce a smoother finish. Do not stop moving the Spray Gun while spraying. If the Spray Gun stops even briefly while spraying the paint will build up and run down the workpiece.

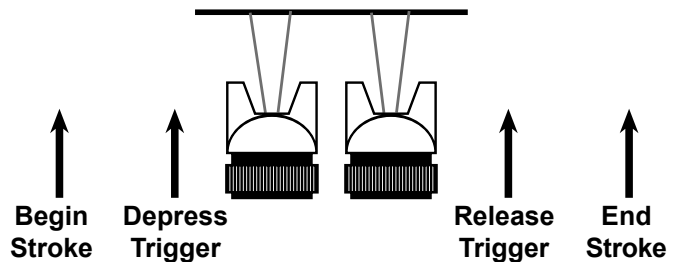


Figure C: Paint Stroke Triggering - top view

Note: The stroke speed and Fluid Control Knob adjustment will determine how much paint is being applied.

6. **Keep Cup filled half-way full to prevent spattering.** When refilling, loosen Lid first to release pressure.
7. To prevent accidents, after use, release Trigger, unplug the tool, safely discharge any residual air pressure, and release Trigger again.
8. **Clean Spray Gun and Cup IMMEDIATELY after EVERY use and when it will be idle for more than 30 minutes. Delayed or inadequate cleaning will permanently clog the Spray Gun.**

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Cleaning



**RISK OF EXPLOSION -
DO NOT SPRAY FLAMMABLE LIQUIDS.**

- a. Follow solvent manufacturer's clean up instructions and safety precautions.

- b. If collecting flushed solvents in metal container, transfer to nonmetal container, and flush metal container.
- c. Work far away from any ignition sources in a vapor free area.
- d. Keep class ABC fire extinguisher nearby.

After Every Use

NOTICE: Only use water for water-based materials or mineral spirits for oil-based materials. Do not immerse Spray Gun Handle in solvent.

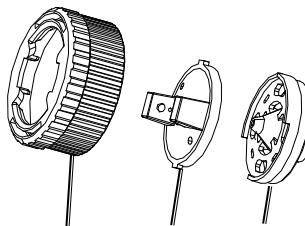
1. Unplug the unit from its electrical outlet.
2. Designate a container for waste.
3. Loosen Lid to relieve pressure, then remove Cup.
4. Carefully scrape paint back into paint container.
5. Fill Cup 1/4 full with solvent (sold separately). Replace Cup, then shake Spray Gun for several seconds.
6. Remove Cup, pour solvent into waste container and wipe away any paint residue from Cup with clean cloth.
7. Fill Cup 1/4 to 1/2 full with solvent. Replace Cup. Securely tighten Cup and Lid.
8. Shake Spray Gun up and down vigorously for five seconds.
9. Repeat steps 5. to 8. until Cup is clean.
10. Fill Cup 1/4 full with solvent (sold separately). Replace Cup, then shake Spray Gun for several seconds.
11. Plug the unit into an electrical outlet.
12. Point Spray Gun at interior side of waste container. Depress Trigger and slightly shake Spray Gun while spraying solvent into container. Once the Cup is empty, repeat the process until solvent comes out clean.
13. Unplug the unit from its electrical outlet.

Waste Disposal

After cleaning, dispose of waste according to the solvent manufacturer's directions and local hazardous waste standards.

14. Point the Spray Gun into the waste container and depress the Trigger again to make sure no air remains.
15. Separate Spray Gun Handle from Spray Gun Body. Store Spray Gun Handle away from cleaning area.
16. Remove Cup and Suction Tube.
17. Remove Cup's Lid, then remove check valve under Lid.
18. Remove Lock Ring, Air Cap, and Nozzle.

1.0mm Finish Sprayer

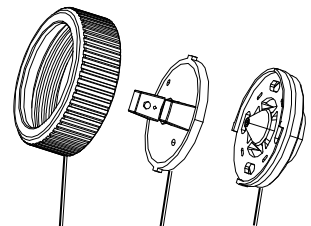


**Lock
Ring**

**Air
Cap**

Nozzle

3.0mm Paint Sprayer



**Lock
Ring**

**Air
Cap**

Nozzle

19. Inspect parts and soak in solvent as necessary. Use brushes and toothpicks (sold separately) to remove any paint.

Note: To prevent damage, do not use metal objects to clean parts.

20. Wipe down Spray Gun Body with a clean cloth and solvent.
21. Make sure all parts are dry and free from residual paint, then reassemble Spray Gun.

NOTICE: Do not use any kind of lubricant. The lubricant will mix with paint, causing poor results.

NOTICE

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User-Maintenance Instructions



Procedures not specifically explained in this manual must be performed only by a qualified technician.

⚠ WARNING

TO PREVENT SERIOUS INJURY:

Detach the air supply and safely discharge any residual air pressure in the tool before performing any inspection, maintenance, or cleaning procedures.

TO PREVENT SERIOUS INJURY FROM TOOL FAILURE: Do not use damaged equipment.

If abnormal noise, vibration, or leaking air occurs, have the problem corrected before further use.

Inspection

Note: These procedures are in addition to the regular checks and maintenance explained as part of the regular operation of the air-operated tool.

BEFORE EACH USE, inspect the general condition of the tool. Check for:

- loose screws,
- cracked or broken parts, and
- misalignment or binding of moving parts,
- any other condition that may affect its safe operation.
- clogged nozzle or fluid tip,

Storage

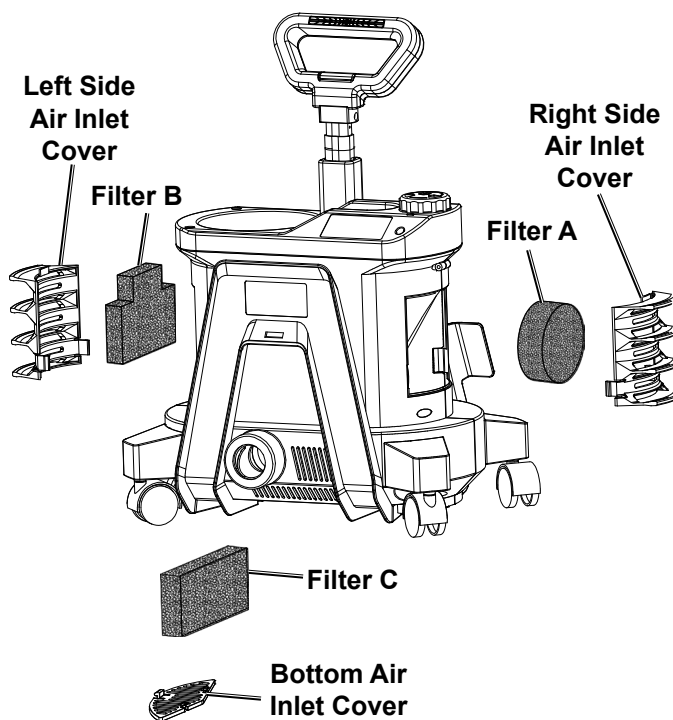
Store in a dry, secure area out of reach of children.

NOTICE

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Air Filter Maintenance

1. Remove Air Hose.
2. Remove Air Inlet Covers and Filters.
3. Inspect Air Filters.
4. If necessary, Wash Air Filters in warm water and mild detergent several times. Rinse. Squeeze out excess water and allow them to dry completely.
5. Install cleaned Air Filters and replace Air Inlet Covers.

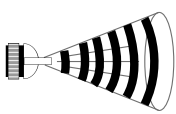


NOTICE

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Troubleshooting - Spray Pattern Diagnosis

Note: The drawings on the left below resemble symptoms of spray pattern problems. Refer to the accompanying possible causes and likely solutions to the right.

Problem	Possible Causes	Likely Solutions
 Heavy center pattern	1. Fluid Control Knob needs adjustment. 2. The paint is too thick.	1. Adjust Fluid Control Knob. 2. Thin paint according to the manufacturer's instructions.
 Light center pattern	1. Fluid Control Knob needs adjustment. 2. Dried paint on Nozzle.	1. Adjust Fluid Control Knob. 2. Use a nonmetallic point to clean Nozzle.
 Heavy top/bottom pattern	1. Air Cap plugged. 2. Lock Ring loose. 3. Dried paint on Nozzle.	1. Clean Air Cap. 2. Tighten Lock Ring. 3. Use a nonmetallic point to clean Nozzle.
 Pattern on right or left only	Dried paint or debris on Nozzle.	Use a nonmetallic point to clean Nozzle.
 Jerky or Fluttering Spray	1. Loose or damaged Air Cap. 2. Paint level low. 3. Cup and/or Lid loose. 4. Clogged Check Valve.	1. Tighten Air Cap. 2. Refill paint Cup. 3. Tighten Cup and/or Lid. 4. Clean Check Valve.
 Follow all safety precautions whenever diagnosing or servicing the tool. Disconnect air supply before service.		

NOTICE

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General Troubleshooting Chart

Problem	Possible Causes	Likely Solutions
Sputtering Spray	1. Low paint level. 2. Cup tipped. 3. Cup and/or Lid loose. 4. Clogged Check Valve. 5. Nozzle Seal damaged.	1. Refill. 2. Hold upright. 3. Tighten Cup and/or Lid. 4. Clean Check Valve. 5. Have qualified technician replace seal.
Will Not Spray	1. No power at Spray Gun. 2. Fluid too thick. 3. Cup and/or Lid loose. 4. Clogged Check Valve.	1. Check Power Cord. 2. Thin fluid. 3. Tighten Cup and/or Lid. 4. Clean Check Valve.
Overspray (Paint drifting to unintended objects.)	1. Improper application speed. 2. Improper distance from workpiece. 3. Airflow too high. 4. Clogged Check Valve.	1. Move moderately and parallel. 2. Adjust distance. 3. Reduce Airflow. 4. Clean Check Valve.
 Follow all safety precautions whenever diagnosing or servicing the tool. Disconnect air supply before service.		

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Clean the Spray Gun Body and Cup IMMEDIATELY after EVERY use and when it will be idle for more than 30 minutes. Delayed or inadequate cleaning will permanently clog the Spray Gun. Water-based paint hardens quickly and permanently inside Spray Gun.

PLEASE READ THE FOLLOWING CAREFULLY

THE MANUFACTURER AND/OR DISTRIBUTOR HAS PROVIDED THE PARTS LIST AND ASSEMBLY DIAGRAM IN THIS MANUAL AS A REFERENCE TOOL ONLY. NEITHER THE MANUFACTURER OR DISTRIBUTOR MAKES ANY REPRESENTATION OR WARRANTY OF ANY KIND TO THE BUYER THAT HE OR SHE IS QUALIFIED TO MAKE ANY REPAIRS TO THE PRODUCT, OR THAT HE OR SHE IS QUALIFIED TO REPLACE ANY PARTS OF THE PRODUCT. IN FACT, THE MANUFACTURER AND/OR DISTRIBUTOR EXPRESSLY STATES THAT ALL REPAIRS AND PARTS REPLACEMENTS SHOULD BE UNDERTAKEN BY CERTIFIED AND LICENSED TECHNICIANS, AND NOT BY THE BUYER. THE BUYER ASSUMES ALL RISK AND LIABILITY ARISING OUT OF HIS OR HER REPAIRS TO THE ORIGINAL PRODUCT OR REPLACEMENT PARTS THERETO, OR ARISING OUT OF HIS OR HER INSTALLATION OF REPLACEMENT PARTS THERETO.

Parts Lists and Diagrams

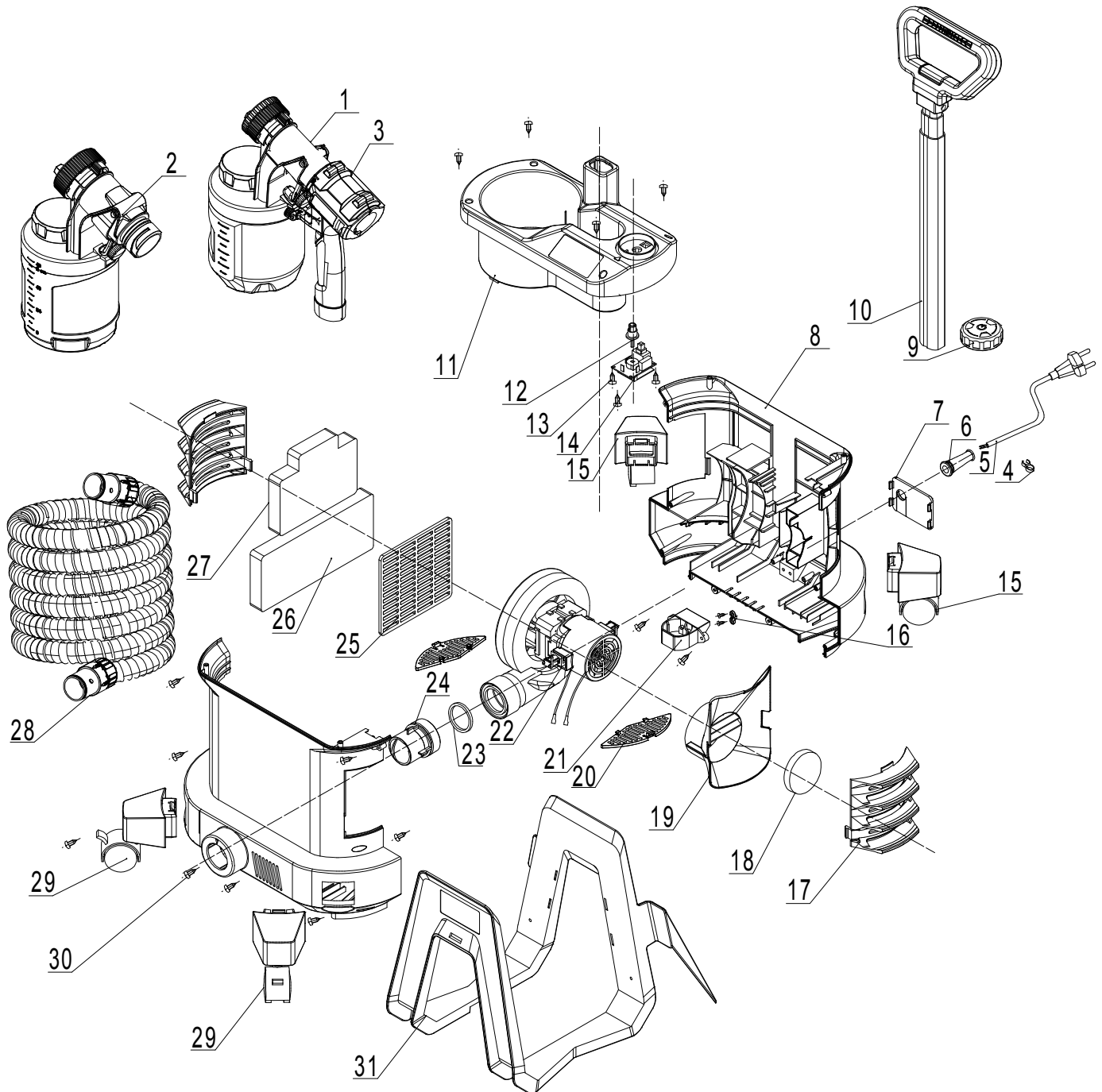
Overall Parts List

Part	Description	Qty	Part	Description	Qty
1	3mm Paint Sprayer	1	17	Side Air Inlet Cover	2
2	1mm Finish Sprayer	1	18	Filter A	1
3	Spray Gun Handle	1	19	Motor Cover	1
4	Clip	1	20	Bottom Air Inlet Cover	2
5	Power Cord	1	21	Handle Support	1
6	Power Cord Sheath	1	22	Motor	1
7	Pull Rod Support	1	23	O-Ring	1
8	Housing Assembly	2	24	Air Outlet Inner Connector	1
9	Power Switch	1	25	Interior Air Inlet	1
10	Handle	1	26	Filter C	1
11	Upper Cover	1	27	Filter B	1
12	Adjustment Lever	1	28	Air Hose	1
13	Screw	4	29	Locking Swivel Caster	2
14	Switch PCB	1	30	Screw	18
15	Swivel Caster	2	31	Hose/Cord Protector	1
16	Cord Clamp	1	32	Storage Hook (not shown)	1

NOTICE

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Overall Assembly Diagram



Record Product's Serial Number Here: _____

Note: If product has no serial number, record month and year of purchase instead.

Note: Some parts are listed and shown for illustration purposes only, and are not available individually as replacement parts.

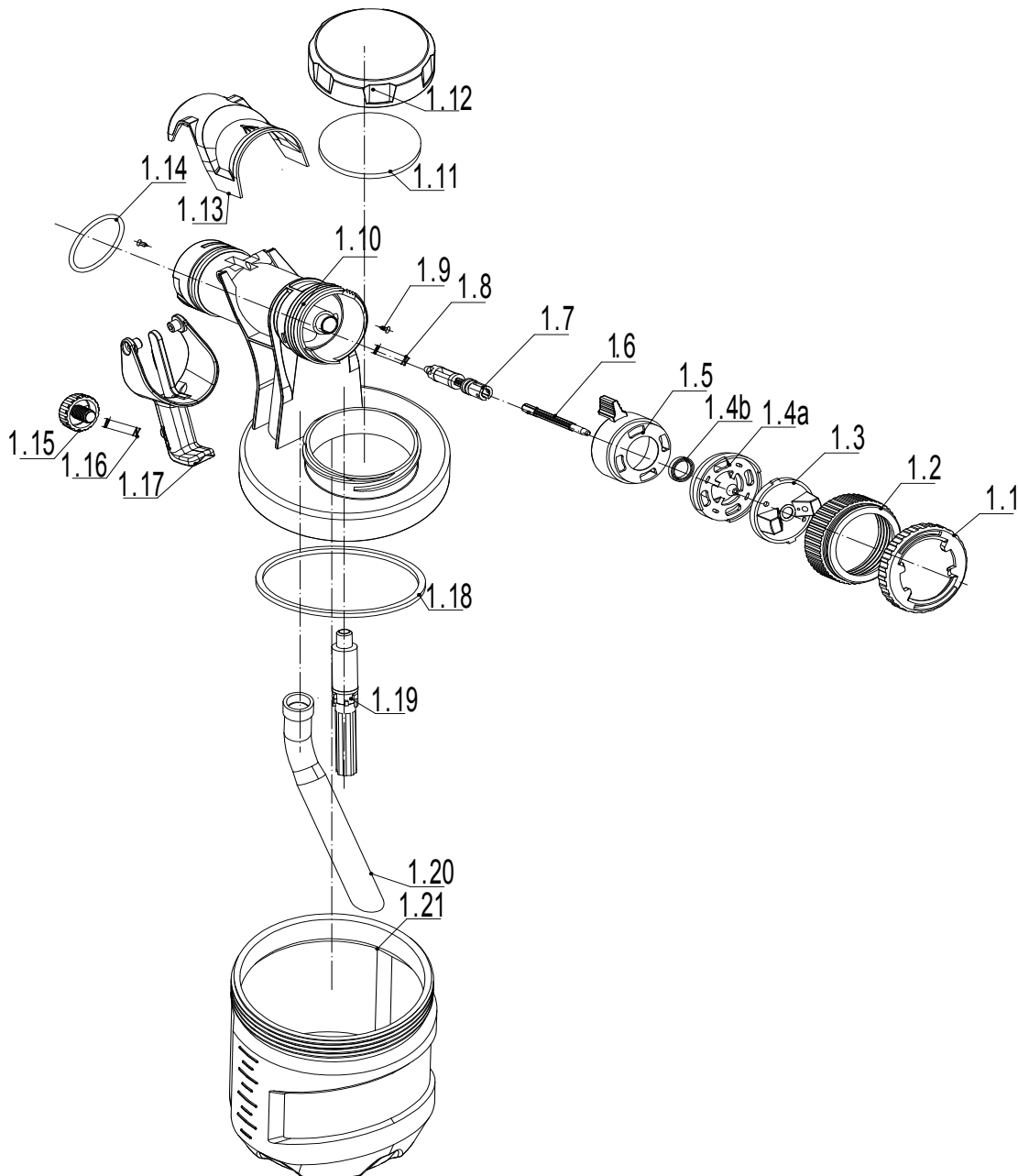
NOTICE

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1.0mm Finish Sprayer Parts List

Part	Description	Qty	Part	Description	Qty
1.1	Fan Pattern Adjustment Ring	1	1.11	Seal Pad	1
1.2	Lock Ring	1	1.12	Cup Lid	1
1.3	Air Cap	1	1.13	Trigger Cover	1
1.4a	1mm Nozzle - Copper	1	1.14	O-Ring	1
1.4b	Nozzle Seal	1	1.15	Fluid Control Knob	1
1.5	Spray Width Adjustment Knob	1	1.16	Spring	1
1.6	Fluid Needle	1	1.17	Trigger	1
1.7	Fluid Needle Bar Unit	1	1.18	Seal Pad	1
1.8	Fluid Needle Spring	1	1.19	Check Valve	1
1.9	Screw	2	1.20	Suction Tube	1
1.10	Gun Body	1	1.21	Cup 32 oz	1

1mm Finish Sprayer Assembly Diagram



NOTICE

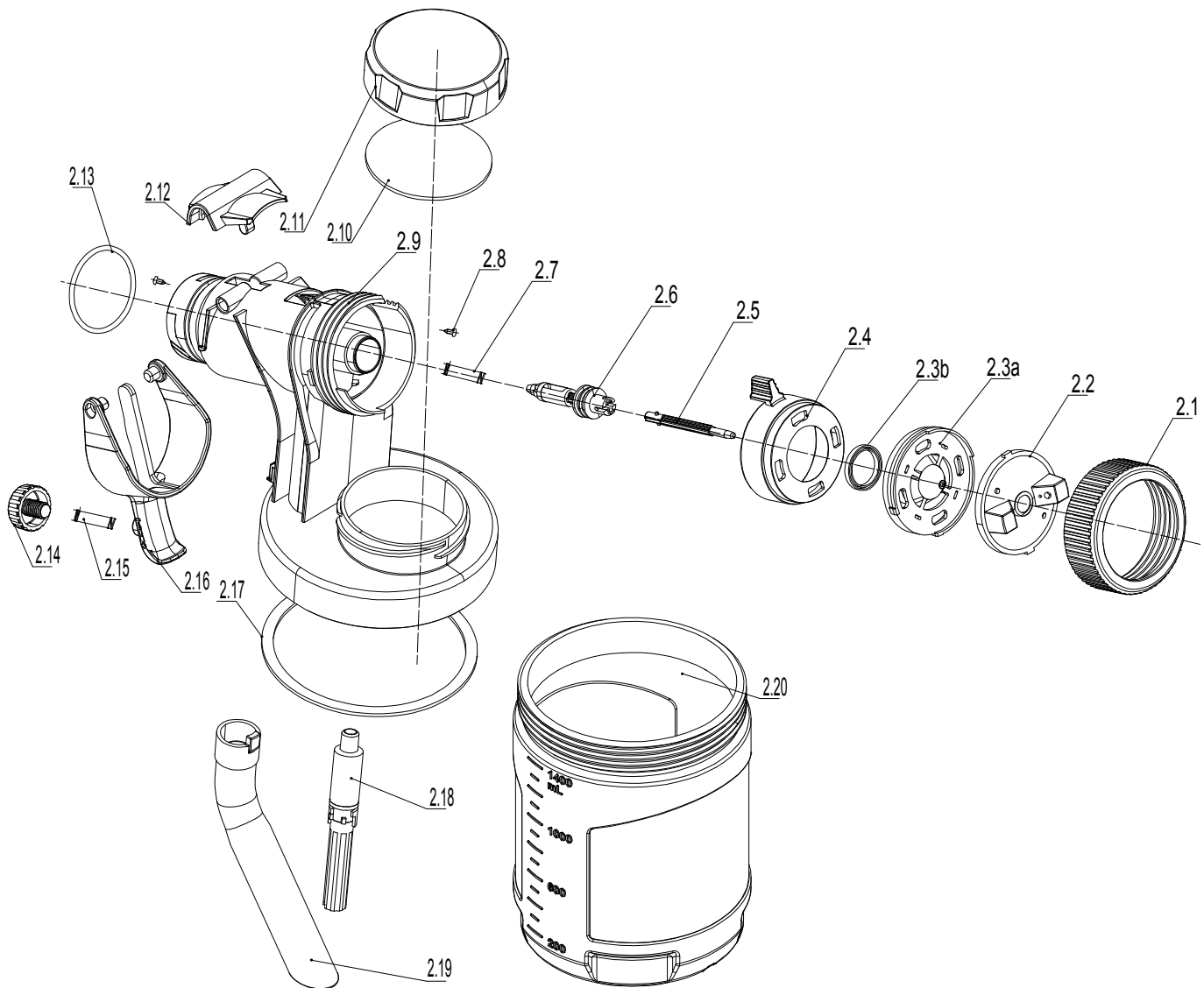
Clean the Spray Gun Body and Cup IMMEDIATELY after EVERY use and when it will be idle for more than 30 minutes. Delayed or inadequate cleaning will permanently clog the Spray Gun. Water-based paint hardens quickly and permanently inside Spray Gun.

3.0mm Paint Sprayer Parts List

Part	Description	Qty
2.1	Lock Ring	1
2.2	Air Cap	1
2.3a	3mm Nozzle	1
2.3b	NozzleSeal	1
2.4	Spray Width Adjustment Knob	1
2.5	Fluid Needle	1
2.6	Fluid Needle Bar Unit	1
2.7	Fluid Needle Core Spring	1
2.8	Screw	2
2.9	Gun Body	1
2.10	Seal Pad	1

Part	Description	Qty
2.11	Cup Lid	1
2.12	Trigger Cover	1
2.13	O-Ring	1
2.14	Fluid Control Knob	1
2.15	Spring	1
2.16	Trigger	1
2.17	Seal Pad	1
2.18	Check Valve	1
2.19	Suction Tube	1
2.20	Cup 48 oz	1

3mm Paint Sprayer Assembly Diagram



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Limited 90 Day Warranty

Harbor Freight Tools Co. makes every effort to assure that its products meet high quality and durability standards, and warrants to the original purchaser that this product is free from defects in materials and workmanship for the period of 90 days from the date of purchase. This warranty does not apply to damage due directly or indirectly, to misuse, abuse, negligence or accidents, repairs or alterations outside our facilities, criminal activity, improper installation, normal wear and tear, or to lack of maintenance. 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 product. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation of exclusion may not apply to you. THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS.

To take advantage of this warranty, the product or part must be returned to us with transportation charges prepaid. Proof of purchase date and an explanation of the complaint must accompany the merchandise. If our inspection verifies the defect, we will either repair or replace the product at our election or we may elect to refund the purchase price if we cannot readily and quickly provide you with a replacement. We will return repaired products at our expense, but if we determine there is no defect, or that the defect resulted from causes not within the scope of our warranty, then you must bear the cost of returning the product.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.



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