

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.

21a

AVANTI™

AIRLESS PAINT SPRAY GUN



RETURNS NOT ACCEPTED & WARRANTY VOID

if Spray Gun is not properly cleaned
immediately after every use.

**Clean Spray Gun immediately after
use to prevent permanent damage.**

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

58056

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.





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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.
 DANGER	Indicates a hazardous situation which, if not avoided, will result in death or serious injury.
 WARNING	Indicates a hazardous situation which, if not avoided, could result in death or serious injury.
 CAUTION	Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.
NOTICE CAUTION	Addresses practices not related to personal injury.

IMPORTANT SAFETY INSTRUCTIONS

1. **SAVE THESE INSTRUCTIONS** – 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 the proper usage of the equipment.
2. **WARNING** – To reduce the risk of fire or explosion:
 - a. Do not spray flammable or combustible materials near an open flame or sources of ignition such as cigarettes, motors, and electrical equipment.
 - b. Paint or solvent flowing through the equipment is able to result in static electricity. Static electricity creates a risk of fire or explosion in the presence of paint or solvent fumes. All parts of the spray system, including the pump, hose assembly, spray gun, and objects in and around the spray area shall be properly grounded to protect against static discharge and sparks. Use only conductive or grounded high-pressure airless paint sprayer hoses specified by the manufacturer.
 - c. Verify that all containers and collection systems are grounded to prevent static discharge.
 - d. Connect to a grounded outlet and use grounded extension cords. Do not use a 3 to 2 adapter.
 - e. Do not use a paint or a solvent containing halogenated hydrocarbons.
 - f. Keep spray area well ventilated. Keep a good supply of fresh air moving through the area. Keep pump assembly in a well ventilated area. Do not spray pump assembly.
 - g. Do not smoke in the spray area.
 - h. Do not operate light switches, engines, or similar spark producing products in the spray area.
 - i. Keep area clean and free of paint or solvent containers, rags, and other flammable materials.
 - j. Know the contents of the paints 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 manufacturer's safety instructions.
 - k. Fire extinguisher equipment shall be present and working.

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3. **WARNING – To reduce the risk of skin injection:**
 - a. Do not aim the gun at, or spray any person or animal.
 - b. Keep hands and other body parts away from the discharge. For example, do not try to stop leaks with any part of the body.
 - c. Always use the nozzle tip guard. Do not spray without nozzle tip guard in place.
 - d. Only use a nozzle tip specified by the manufacturer.
 - e. Use caution when cleaning and changing nozzle tips. In the case where the nozzle tip clogs while spraying, follow the manufacturer's instructions for turning off the unit and relieving the pressure before removing the nozzle tip to clean.
 - f. Do not leave the unit energized or under pressure while unattended. When the unit is not in use, turn off the unit and relieve the pressure in accordance with the manufacturer's instructions.
 - g. High-pressure spray is able to inject toxins into the body and cause serious bodily injury. In the event that injection occurs, seek medical attention immediately.
 - h. Check hoses and parts for signs of damage. Replace any damaged hoses or parts.
 - i. Always engage the trigger lock when not spraying. Verify the trigger lock is functioning properly.
 - j. Know how to stop the unit and bleed pressure quickly. Be thoroughly familiar with the controls.
4. **WARNING – To reduce the risk of injury:**
 - a. Always wear appropriate gloves, eye protection, and a respirator or mask when painting.
 - b. Do not operate or spray near children. Keep children away from equipment at all times.
 - c. Do not overreach or stand on an unstable support. Keep effective footing and balance at all times.
 - d. Stay alert and watch what you are doing.
 - e. Do not operate the unit when fatigued or under the influence of drugs or alcohol.
 - f. Do not kink or over-bend the hose.
 - g. Do not expose the hose to temperatures or to pressures in excess of those specified by the manufacturer.
 - h. Do not use the hose as a strength member to pull or lift the equipment.

Work Area

1. **Keep the work area clean and well lighted.**
Cluttered benches and dark areas increase the risks of electric shock, fire, and injury to persons.
2. **Operate only in a well-ventilated area.**
Paint thinners and solvents may be harmful if inhaled.
3. **Do not operate the sprayer in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust.**
The sprayer is able to create sparks resulting in the ignition of the dust or fumes.
4. **Keep bystanders, children, and visitors away while operating the tool.** Distractions are able to result in the loss of control of the tool.

Personal Safety

1. **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.
2. **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.

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Clean Spray Gun immediately to prevent permanent damage.

- Avoid unintentional starting. Be sure the trigger is off before connecting to the power supply.** Do not carry the sprayer with your finger on the trigger or connect the sprayer to the power supply with the trigger on.
- Do not overreach. Keep proper footing and balance at all times.** Proper footing and balance enables better control of the tool in unexpected situations.
- 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.
- Always wear eye protection.** Wear ANSI-approved safety goggles.



Tool Use and Care

- 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 it was designed.
- 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.
- 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.
- 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

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

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Specific Safety Instructions

-  **INJECTION HAZARD!**
Although this paint gun is airless, it still puts out paint at a very high pressure. Through improper use, paint can be injected through a person's skin, leading to serious injury, possibly amputation. If paint is accidentally injected into someone's skin, contact a doctor immediately. Do not treat an injection injury as a simple cut. Injection can lead to amputation and requires immediate surgical treatment.
- Do not direct spray at people or animals. Do not place your hand in front of Spray Gun's nozzle or attempt to deflect paint spray with your hand during use.** Gloves and clothing don't offer adequate protection from toxic paints, sealers, or stains.
- Do not spray flammable materials in vicinity of open flame or near ignition sources.** Motors, electrical equipment, and controls can cause electrical arcs that will ignite a flammable gas or vapor. Do not store flammable liquids or gases in vicinity of this unit.
- Do not come into contact with a fluid stream created by a leak in the paint hose.**
- Do not leave Paint Sprayer pressurized while unattended.**
- Do not clean Spray Gun tip while it is still connected to paint hose.**
- Keep the trigger and the electrical cord plug clean and paint-free.**
- Do not use Spray Gun to spray asbestos, metallic paints, glazes, red lead, cement, ground chalk, abrasive grainy paints containing lime, or bleach.** These will damage the spray gun and void the warranty.
- Read all of the information concerning coating products and cleaning solvents. Do NOT use bleach, low-flash naphthalene, acetone, alcohol or toluene when cleaning Paint Sprayer equipment.
- Do not use bleach or halogenated hydrocarbon solvents (DCM, 1,1,1-trichloroethane, methyl bromine, carbon tetrachloride, and ethyl iodide).** Long term exposure to many chlorinated hydrocarbons through inhalation can result in liver and kidney toxicity. Exposure of unprotected skin to the solvents used can cause defatting of the skin resulting in dermatitis. Methylene chloride and vinyl chloride have also been shown to be human carcinogens. Some of these solvents are flammable. Welding operations near the these materials can create phosgene, a highly toxic gas.
- Many spray guns contain aluminum, which reacts strongly to chlorinated solvents.** Contact the solvent or coating manufacturer as needed regarding potential chemical reactions.
- Industrial applications must follow OSHA requirements.
- Spraying hazardous materials may result in serious injury or death. Do not spray pesticide, acid, corrosive material, fertilizer, or toxic chemicals.
- 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.
- Use caution while spraying on windy days.
- Do not use Spray Gun without the nozzle guard in place.
- Remove Spray Tip or turn to cleaning position BEFORE cleaning or flushing Paint Sprayer system.
- Do not use pliers to tighten or loosen high pressure connections.

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19.  **Sparks from improper grounding can ignite fumes!**
Follow all local regulations regarding the use of fluid supply containers and solvent pails used with flushing the Paint Sprayer. Use only conductive metal pails placed on a grounded (concrete) surface. Do not place pails on nonconductive surfaces (such as cardboard or paper). Ground all metal pails by clamping one end of a ground wire to the pail and the other end to a grounded structure (such as a nearby pipe). Maintain grounding, even when flushing or relieving pressure from Paint Sprayer into metal pail. The force of the spray can knock a metal pail over, so hold down the metal pail and keep the metal part of the spray gun set against the grounded metal pail when pressing the spray gun trigger.
20. Maintain labels and nameplates on the sprayer. These carry important safety information. If unreadable or missing, contact Harbor Freight Tools for a replacement.
21. 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.



SAVE THESE INSTRUCTIONS.

Symbology

Symbol	Property or Statement
PSI	Pounds per square inch of pressure
CFM	Cubic Feet per Minute flow
SCFM	Cubic Feet per Minute flow at standard conditions
NPT	National pipe thread, tapered
NPS	National pipe thread, straight
	WARNING marking concerning Risk of Eye Injury. Wear ANSI-approved eye protection.

Symbol	Property or Statement
	WARNING marking concerning Risk of Respiratory Injury. Wear NIOSH-approved respirator.
	WARNING marking concerning Risk of Explosion.
	WARNING marking concerning Risk of Injection Injury. Do not direct spray at hands or body. Have injection injury treated immediately.
	WARNING marking concerning Risk of Fire. Do not use solvents improperly.

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Specifications

Maximum Working Pressure	3600 PSI
Spray Hose Outlet	1/4"–NPS
Maximum Material Temperature	120°F

Setup–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.

Note: For additional information regarding the parts listed in the following pages, refer to the Assembly Diagram near the end of this manual.

Attach Spray Gun

Attach Spray Gun to Spray Hose. Tighten securely with two wrenches (sold separately).

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Operating Instructions



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INJECTION HAZARD!

Although this paint gun is airless, it still puts out paint at a very high pressure. Through improper use, paint can be injected through a person's skin, leading to serious injury, possibly amputation. If paint is accidentally injected into someone's skin, contact a doctor immediately. Do not treat an injection injury as a simple cut. Injection can lead to amputation and requires immediate surgical treatment. Inspect tool before use, looking for damaged, loose, and missing parts. If any problems are found, do not use tool until repaired.

⚠️WARNING

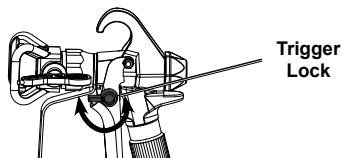
TO PREVENT SERIOUS INJURY: Read and understand paint sprayer's instruction manual before using this Spray Gun.

SETUP

Lock/Unlock Trigger

WARNING! TO PREVENT SERIOUS INJURY: Risk of Injection - Set Trigger Lock when Spray Gun not in use.

1. Rotate Trigger Lock all the way back to lock Trigger.
2. Rotate Trigger Lock forward to unlock Trigger.



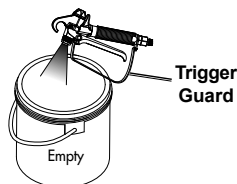
OPERATION

Depressurize Spray Gun

WARNING! TO PREVENT SERIOUS INJURY: Risk of Injection - sprayer maintains pressure after shut-down - Before servicing, cleaning, or removing any part, shut off power and relieve pressure.

Refer to this section when instructed to depressurize sprayer.

1. Turn sprayer's power switch off.
2. Lock Trigger.
3. Turn sprayer's pressure knob to lowest setting.
4. Reverse Spray Tip.
5. Rotate sprayer's prime/spray Valve to spray position.
6. Unlock Trigger.
7. Point Spray Gun at interior side of empty grounded metal container. Hold Trigger Guard against container to ground Spray Gun.



8. Press Trigger until pressure is relieved, then release and lock Trigger.
9. Rotate Spray Tip to spray position.
10. Rotate prime/spray valve to prime position when sprayer not in use.

MAINTENANCE

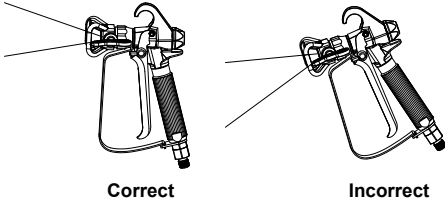
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Spraying

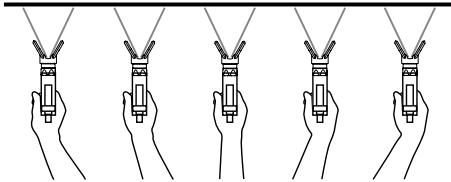
Proper Spraying Techniques

Keep the Spray Gun upright and at a right angle to the workpiece.



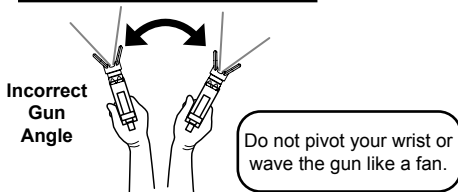
Correct

Incorrect



Correct Gun Angle

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



Incorrect Gun Angle

Do not pivot your wrist or wave the gun like a fan.

To Avoid Paint Build Up

Apply two thin coats rather than one thick coat. Overlap 1/3 to 1/2 on second coat.

Start moving the Spray Gun before fully depressing Trigger.

Fully depress Trigger before contacting the workpiece.

When finished with the stroke, release the Trigger while still moving the Spray Gun and after passing the workpiece.

Note: Remove or cover objects that you want to protect from overspray and paint mist.

Note: Practice painting techniques on a scrap workpiece.

1. Use sprayer according to its instruction manual.
2. After use, clean Spray Gun according to **After Every Use - Cleaning on page 10.**
3. Store indoors out of reach of children.

Clearing Spray Tip Blockage

- a. Lock Trigger.
- b. Reverse Spray Tip.
- c. Unlock Trigger and Spray on scrap workpiece.
- d. Release and lock Trigger.

Note: If Spray Tip won't clear, replace according to **After Every Use - Cleaning on page 10.**

NOTE: *Dispose of solvent, paint and waste according to local hazardous waste standards.*

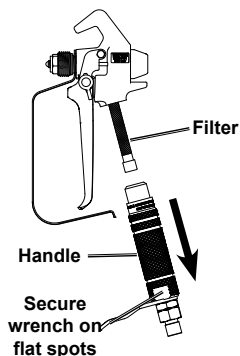
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User-Maintenance Instructions

After Every Use - Cleaning

1. Turn sprayer's power switch off.
2. Depressurize Spray Gun according to ***Depressurize Spray Gun on page 8.***
3. Lock Trigger.
4. Designate a small container for solvent.
5. **CAUTION!** To prevent high pressure solvent or paint splatter, remove Nozzle Guard, Spray Tip, and Seal according to ***Spray Tip and Nozzle Guard on page 11.***
6. Place Nozzle Guard, Spray Tip and Seal in small container of solvent.
7. Clean sprayer according to its instruction manual.
8. Depressurize Spray Gun according to ***Depressurize Spray Gun on page 8.***
9. Unplug sprayer.
10. Remove Spray Gun from Spray Hose.
11. Remove Handle from Spray Gun with wrench (sold separately).



12. Remove Filter by turning it counterclockwise.
13. Place Filter in container of solvent with Nozzle Guard, Spray Tip and Seal.
14. Using brush (sold separately), scrub accessories until clean.
15. Let accessories dry completely.
16. Reassemble Spray Gun.

NOTE: *Dispose of solvent, paint and waste according to local hazardous waste standards.*

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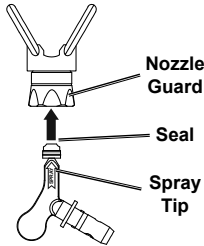
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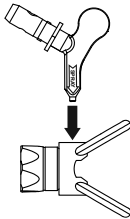
Spray Tip and Nozzle Guard

Attach

1. Seat Seal on end of Spray Tip, then insert Seal into back of Nozzle Guard.



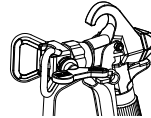
2. Insert Spray Tip, then rotate a full turn to align Seal.



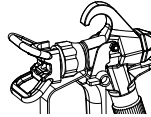
3. Remove Tip, then thread Nozzle Guard onto Spray Gun. Turn nut by hand until almost tight, then holding nut and Nozzle Guard together, tighten completely. Do not overtighten.



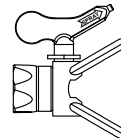
- Attach horizontally for horizontal spray pattern.



- Attach vertically for vertical spray pattern.

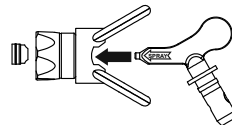


4. Install Tip into Nozzle Guard, then rotate until **SPRAY** end is facing forward.



Remove

1. **During operation:** Remove Spray Tip from Nozzle Guard, then remove Nozzle Guard from Spray Gun.
2. **During cleaning or changing tip size:** Remove Spray Tip from Nozzle Guard, then remove Nozzle Guard from Spray Gun. Insert Spray Tip into front of Nozzle Guard to remove Seal.



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Maintenance and Lubrication



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

⚠ WARNING

TO PREVENT SERIOUS INJURY FROM ACCIDENTAL OPERATION:

Unplug the Sprayer from its electrical outlet before performing any inspection or maintenance 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.

1. **BEFORE EACH USE**, inspect the general condition of the tool. Check for:
 - loose hardware,
 - misalignment or binding of moving parts,
 - damaged Nozzle Guard or Spray Tip,
 - cracked or broken parts, and
 - any other condition that may affect its safe operation.
2. **AFTER USE**, wipe external surfaces of the tool with clean cloth.
3. Store in clean dry location out of reach of children.

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Troubleshooting

Problem	Possible Causes	Likely Solutions
Decreased output.	Obstructed trigger.	Clean around trigger to ensure movement.
Inconsistent paint flow, blobs and splatters.	Clogged Spray Tip or damaged/clogged Filter.	Clean, adjust or replace Spray Tip or Filter.
Paint sags or runs.	<ol style="list-style-type: none"> 1. Paint applied too thick. 2. Paint gun too close to work surface. 3. Uneven or hesitant motion of spray gun. 4. Excess overlapping of each spray stroke. 	<ol style="list-style-type: none"> 1. Apply thinner coats, allowing paint to get tacky between coats. 2. Move spray gun further back from paint surface when applying paint. 3. Keep spray gun moving during painting. Hesitations can cause sags or runs. 4. Overlap each stroke to keep the coverage even, but be aware that you are adding coat thickness by overlapping.
Blotchy surface (blushing) or uneven color.	<ol style="list-style-type: none"> 1. Uneven paint application. 2. Work material absorbs paint unevenly. 	<ol style="list-style-type: none"> 1. Start each stroke off the work material and overlap each stroke consistently. 2. Use a conditioner or sealer coat before applying the finish coat.
Spots on surface with light center (fish eyes).	<ol style="list-style-type: none"> 1. Improper primer or incompatible surface. 2. Surface contamination. 	<ol style="list-style-type: none"> 1. Check manufacturer's recommendations for primer or compatible surfaces. 2. Clean surface thoroughly before applying paint.
Spots on surface with dark center (contamination).	<ol style="list-style-type: none"> 1. Dust or dirt on surface. 2. Insufficiently sanded. 3. Raised grain. 	<ol style="list-style-type: none"> 1. Clean surface with compressed air or tack cloth before painting. 2. Sand wood to a sufficiently fine grit before painting. 3. Wipe wood surface with thinner to raise grain, then sand with fine grit to knock off "hairs".

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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.

SAFETY

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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. Specify UPC 193175431288 when ordering parts.

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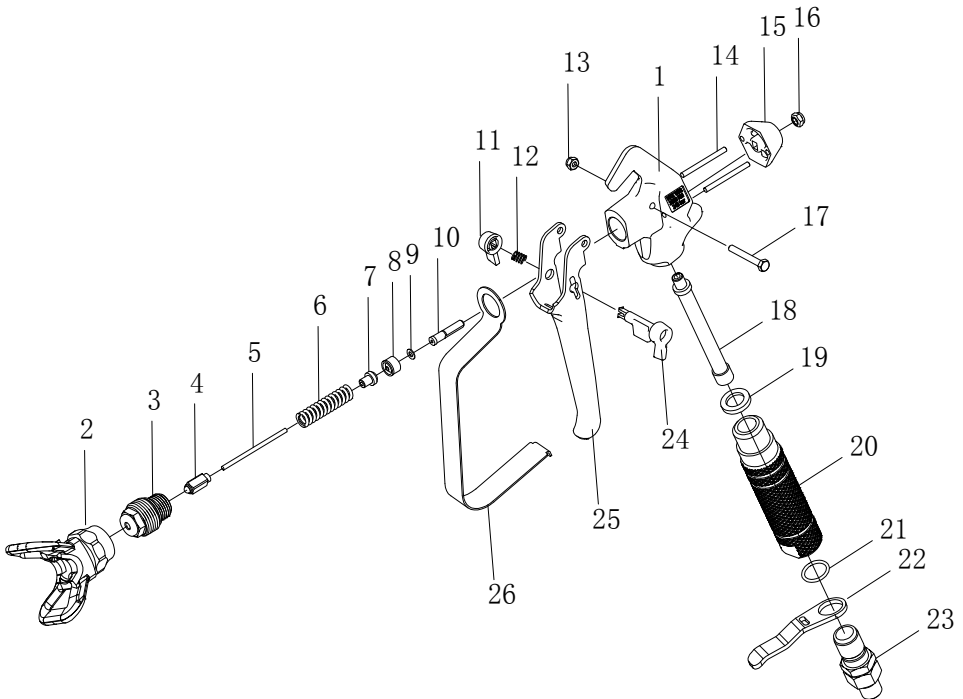
Parts List and Diagram

Parts List

Part	Description	Qty
1	Housing	1
2	Nozzle Guard	1
3	Valve Seat	1
4	Needle Bushing	1
5	Needle	1
6	Spring	1
7	Seal Retainer	1
8	Seal	1
9	Washer	1
10	Needle Pack	1
11	Trigger Lock	1
12	Spring	1
13	Shock Proof Nut	1

Part	Description	Qty
14	Actuator Pin	2
15	Back Cap	1
16	Shock Proof Nut	1
17	Screw	1
18	Filter	1
19	Washer	1
20	Handle	1
21	O-Ring	1
22	Trigger Guard Clip	1
23	Swivel Inlet Fitting	1
24	Trigger Lock	1
25	Trigger	1
26	Trigger Guard	1

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.

The logo for AVANTI features the word "AVANTI" in a bold, italicized, sans-serif font. A stylized, sharp-edged shape resembling a star or a wing is positioned to the left of the letter 'A', partially overlapping it. A small trademark symbol (TM) is located at the bottom right of the word.

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