

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.

20f



20 OZ. HVLP GRAVITY SPRAY GUN



NOTICE

CLEAN IMMEDIATELY

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

Delayed or inadequate cleaning
will permanently clog 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 Spray Gun and Cup **IMMEDIATELY** after **EVERY** use and when Spray Gun will be idle for more than 30 minutes. Delayed or inadequate cleaning will permanently clog Spray Gun.
DO NOT USE LATEX PAINT IN THIS SPRAY GUN.

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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.
	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

INSTRUCTIONS PERTAINING TO A RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS

The warnings and precautions discussed in this 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.

WARNING – When using tools, basic precautions should always be followed, including the following:



Work Area

- Keep the work area clean and well lighted.** Cluttered benches and dark areas increase the risks of electric shock, fire, and injury to persons.
- Keep bystanders, children, and visitors away while operating the tool.** Distractions are able to result in the loss of control of the tool.

NOTICE

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Personal Safety

- a. **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.
- b. **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.
- c. **Do not overreach. Keep proper footing and balance at all times.** Proper footing and balance enables better control of the tool in unexpected situations.
- d.  **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.
- e.  **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. **Disconnect the tool from the air source 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.**

NOTICE





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Air Source

- a.  **Never connect to an air source that is capable of exceeding 200 psi.**
Over pressurizing the tool may cause bursting, abnormal operation, breakage of the tool or serious injury to persons.
Use only clean, dry, regulated compressed air at the rated pressure or within the rated pressure range as marked on the tool. Always verify prior to using the tool that the air source has been adjusted to the rated air pressure or within the rated air-pressure range.
- b. **Never use oxygen, carbon dioxide, combustible gases or any bottled gas as an air source for the tool.** Such gases are capable of explosion and serious injury to persons.

**SAVE THESE INSTRUCTIONS.****Symbol Definitions**

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

Symbol	Property or Statement
	WARNING marking concerning Risk of Eye Injury. Wear ANSI-approved eye protection.
	WARNING marking concerning Risk of Respiratory Injury. Wear NIOSH-approved respirator.
	WARNING marking concerning Risk of Explosion.
	WARNING marking concerning Risk of Fire. Do not use solvents improperly.

NOTICE

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Specific Safety Instructions

1. Do not direct spray at people or animals.
2. Do not exceed maximum air pressure.
3. Do not spray near open flames, pilot lights, stoves, heaters, the air compressor, or any other heat source. Most solvents and coatings are highly flammable, particularly when sprayed. Maintain a distance of at least 25 feet from the air compressor. If possible, locate the air compressor in a separate room.
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. Industrial applications must follow OSHA requirements.
7. Spraying hazardous materials may result in serious injury or death. Do not spray pesticide, acid, corrosive material, fertilizer, or toxic chemicals.
8. 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.
9. Attach all accessories properly to the tool before connecting the air supply. A loose accessory may detach or break during operation.
10. Install an in-line shutoff valve to allow immediate control over the air supply in an emergency, even if a hose is ruptured.
11. Air hose fittings may get hot during use. Allow fittings to cool before disconnecting.

Specifications

Working Air Pressure (with Trigger fully depressed)	14 - 45 (Max) PSI
Meets HVLP Requirements with Maximum Air Cap Pressure of <10 PSI @ 29 PSI Input	Maximum Transfer Efficiency from 14 - 29 PSI
Air Inlet	1/4" - 18 NPS
Air Consumption	12 CFM @ 29 PSI
Cup Capacity	20 oz.
Tip Size	1.4mm

NOTICE

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Initial Set Up



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.

Before Setup

This air tool may be shipped with a protective plug covering the air inlet. Remove this plug before set up.

Air Supply Setup

⚠ WARNING



TO PREVENT SERIOUS INJURY FROM EXPLOSION:

Use only clean, dry, regulated, compressed air to power this tool.
Do not use oxygen, carbon dioxide, combustible gases, or any other bottled gas as a power source for this tool.

1. Incorporate a filter, regulator with pressure gauge, in-line shutoff ball valve, and quick coupler for best service, as shown on Figure A on page 7.
An in-line shutoff ball valve is an important safety device because it controls air supply even if air hose is ruptured. The shutoff valve should be a ball valve because it can be closed quickly.
2. Attach an air hose to compressor's air outlet.
3. The air hose must be long enough to reach work area with enough extra length to allow free movement while working.
4. Turn on air compressor according to manufacturer's directions and allow it to build up pressure until it cycles off.
5. Adjust air compressor's regulator so that the air output is 90 PSI.
Adjust pressure gradually, while checking regulator, to set correct pressure.
6. Inspect air connections for leaks.
Repair any leaks found.
7. If tool will not be used at this time, turn off compressor.

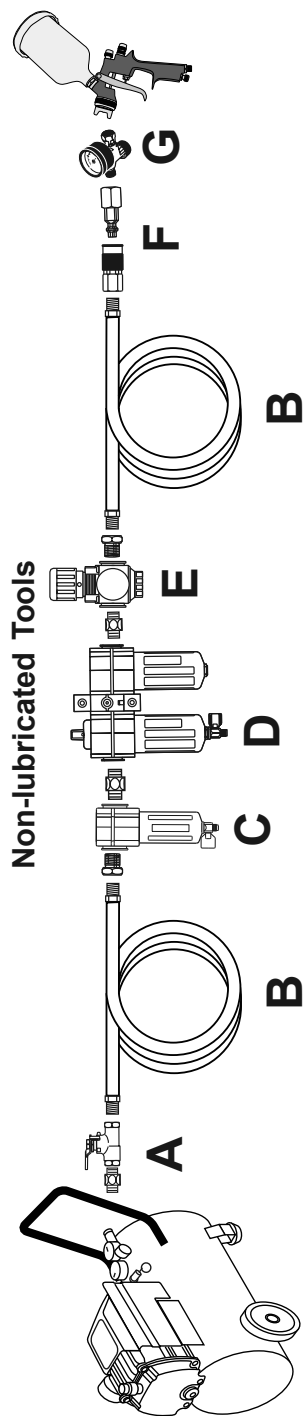
NOTICE: Do not use an automatic oiler system or add oil to airline. The oil will contaminate the material being propelled, ruining the final result.

Note: Air flow, and therefore tool performance, can be hindered by undersized air supply components.

NOTICE

Clean Spray Gun and Cup IMMEDIATELY after EVERY use and when Spray Gun will be idle for more than 30 minutes. Delayed or inadequate cleaning will permanently clog Spray Gun.
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Figure A: Portable Air Supply Setup



Description	Function
A Shutoff Ball Valve	Isolates sections of system for maintenance
B Air Hose	Connects air to tool
D Filter	Prevents dirt and condensation from damaging tool or workpiece
E Compressor Regulator	Adjusts air pressure to tool
F Coupler and Plug*	Provides quick connection and release
C Air Cleaner / Dryer*	Prevents water vapor from damaging workpiece
G Spray Gun Regulator	For fine tuning airflow at tool

*Optional components.

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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.

Workpiece and Work Area Set Up

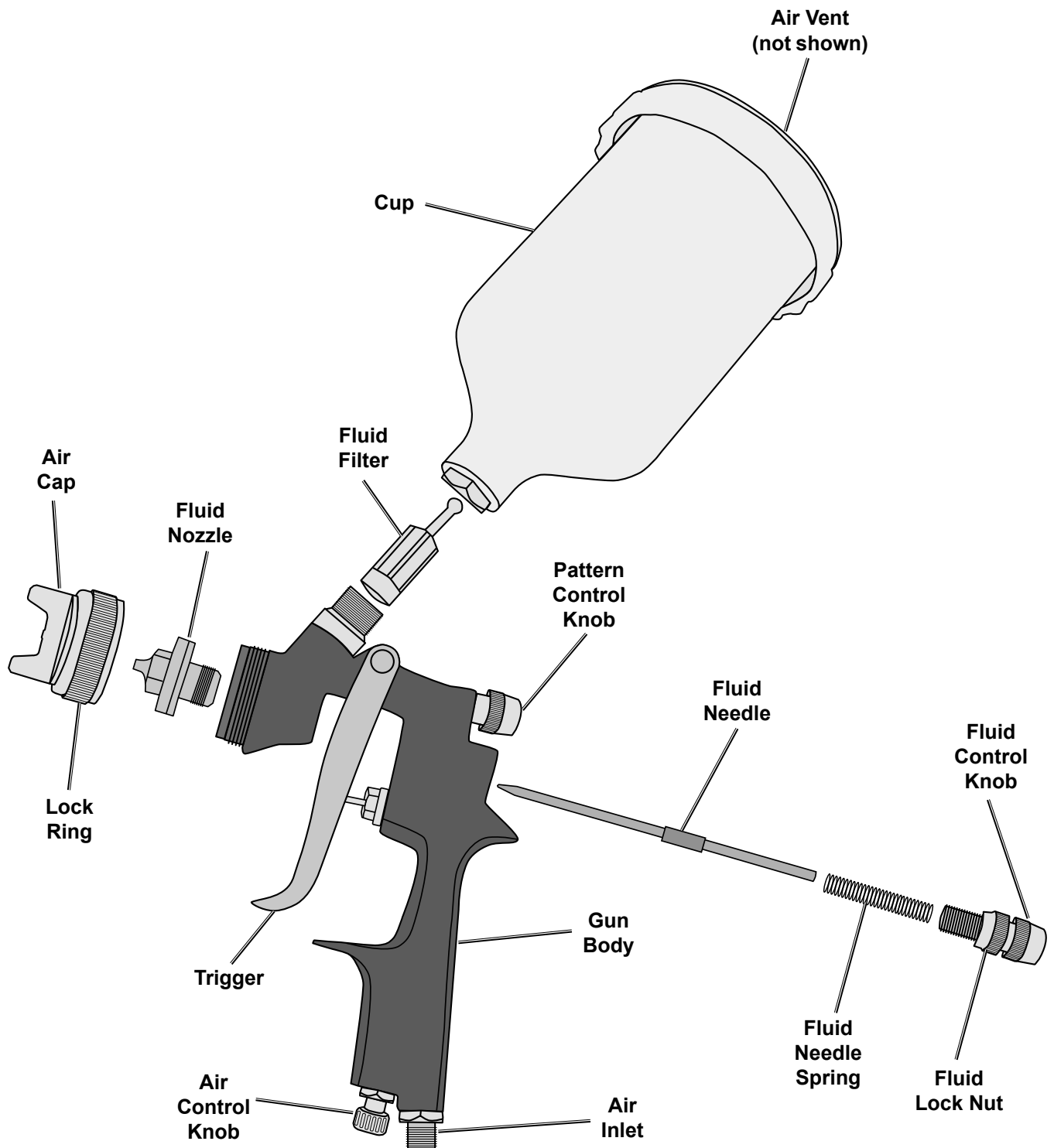
1. Designate a work area that is clean and well lit. The work area must not allow access by children or pets to prevent distraction and injury.
2. Route air hose along a safe path to reach work area without creating a tripping hazard or exposing air hose to possible damage. The air hose must be long enough to reach work area with enough extra length to allow free movement while working.
3. Before spraying, mask nearby objects not being sprayed and lay cloths (not included) on floors.



NOTICE

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Components and Controls



SAFETY

SETUP

OPERATION

MAINTENANCE

NOTICE

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Before First Use

⚠ WARNING

TO PREVENT SERIOUS INJURY: Do not adjust or tamper with any control or component in a way not specifically explained within this manual. Improper adjustment can result in tool failure or other serious hazards.

CAUTION! To prevent injection injuries, keep hands away from Trigger while making adjustments.

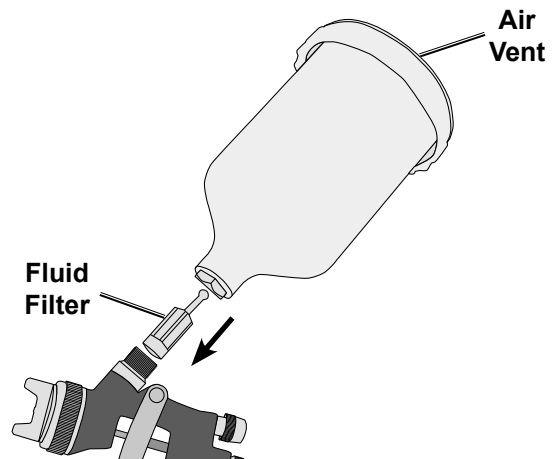
NOTICE: Before first use, clean Spray Gun thoroughly.

If not removed, the material used for testing and corrosion prevention will contaminate paint.

Assembly

1. Place Fluid Filter inside Fluid Inlet.
2. Thread Cup to top of Gun Body and tighten until Cup is securely in place.
3. Pull out Air Vent to open.

Note: When Spray Gun is idle, push in Air Vent to close.

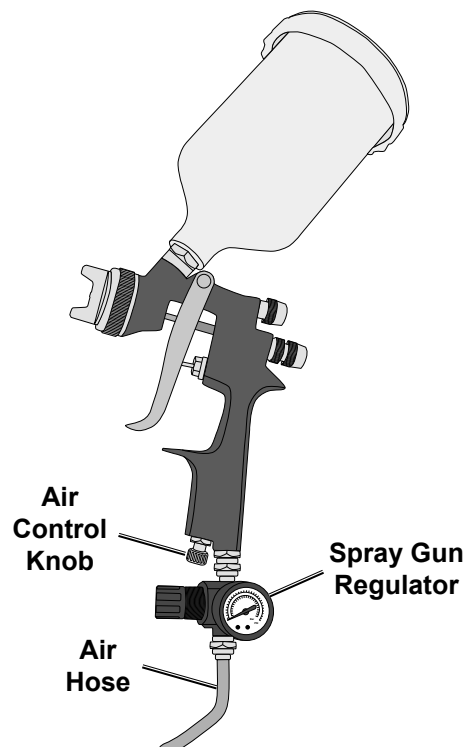


Air Adjustment

⚠ WARNING! TO PREVENT SERIOUS INJURY FROM ACCIDENTAL OPERATION: Do not install a female quick coupler on the tool. Such a coupler contains an air valve that will allow air tool to retain pressure and operate accidentally after air supply is disconnected.

1. Attach spray gun regulator (sold separately) to Air Inlet.
2. Attach air hose to regulator.
3. Turn on air compressor according to manufacturer's directions and allow it to build up pressure until it cycles off.
4. Adjust air compressor's regulator so that the air output is 90 PSI.
5. Open Air Control Knob fully (counterclockwise).
6. Fully depress Trigger, then set Spray Gun's regulator to 45 PSI (maximum).

Note: If Spray Gun's regulator cannot reach maximum pressure, slowly adjust compressor's regulator until maximum pressure is achieved at Spray Gun's regulator.



NOTICE

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Pre-Cleaning

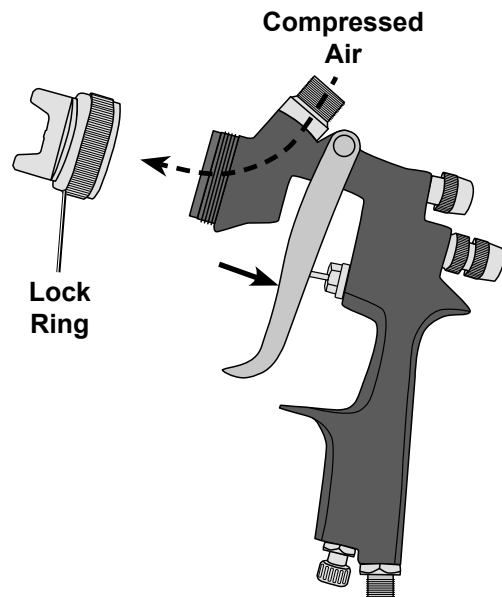
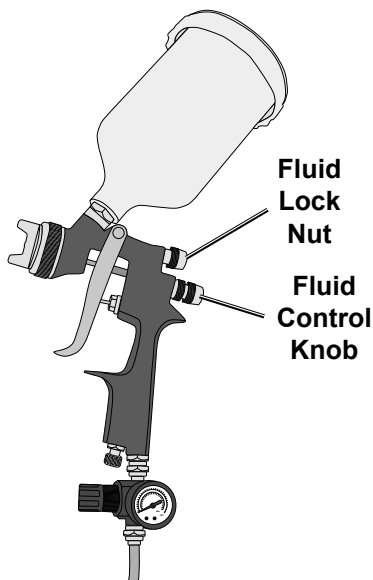


WARNING! TO PREVENT SERIOUS INJURY: TO PREVENT FIRE, IF A FLAMMABLE SOLVENT NEEDS TO BE USED, ADHERE TO THE FOLLOWING:

- Follow solvent manufacturer's clean up instructions and safety precautions.
- Flush Spray Gun a full hose length from air compressor.
- If collecting flushed solvents in metal container, transfer to nonmetal container, and flush metal container.
- Work far away from any ignition sources in a vapor free area.
- Keep class ABC fire extinguisher nearby.

NOTICE: Do not immerse Spray Gun Body in solvent. Do not allow solvent to enter the air inlet.

- Designate a container for spent solvent.
- Remove Cup's Lid and add 2 - 4 ounces of solvent-based cleaner (sold separately).
- Replace Lid and pull out Air Vent to open.
- Open Fluid Control Knob and Fluid Lock Nut (counterclockwise) until four threads are showing. Turn Fluid Lock Nut clockwise until it stops against the Spray Gun body.
- Open Air Control Knob fully.
- After disconnecting, point Spray Gun into spent solvent container and depress Trigger again to make sure no air remains.
- Remove Regulator.
- Remove Cup and Lid and allow to dry.
- Turn Lock Ring counterclockwise by hand to remove Air Cap and allow to dry.
- Depress Trigger to open passageway, then blow clean compressed air into Fluid Inlet.



- Point Spray Gun at interior side of spent solvent container. Depress Trigger and slightly shake Spray Gun while spraying solvent into container.
- Disconnect Spray Gun from air source.

13. Reassemble Spray Gun.

NOTICE: Do not use any kind of lubricant in air supply or air inlet. The lubricant will mix with paint, causing poor results.

Spent solvent disposal

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

NOTICE

Clean Spray Gun and Cup IMMEDIATELY after EVERY use and when Spray Gun will be idle for more than 30 minutes. Delayed or inadequate cleaning will permanently clog Spray Gun.
DO NOT USE LATEX PAINT IN THIS SPRAY GUN.

Spray Gun Setup and Adjustment

⚠ WARNING

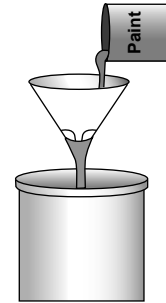
TO PREVENT SERIOUS INJURY: Do not adjust or tamper with any control or component in a way not specifically explained within this manual. Improper adjustment can result in tool failure or other serious hazards.

Paint Preparation and Filling

NOTICE: This Spray Gun can only be used for spraying thin waterborne and solvent-based paints. **DO NOT USE LATEX PAINT!**

Note: Proper paint mixture is essential. Follow paint manufacturer's directions for thinning. Most paints will spray easily if they are thinned properly.

1. Thin paint according to manufacturer's directions and mix thoroughly.
2. Place Spray Gun in stand (sold separately).
3. Remove Cup's Lid.
4. Carefully strain paint into Cup through a paint strainer or a piece of cheesecloth.



5. Fill Cup 3/4 full.
6. Replace Lid and pull out Air Vent to open.

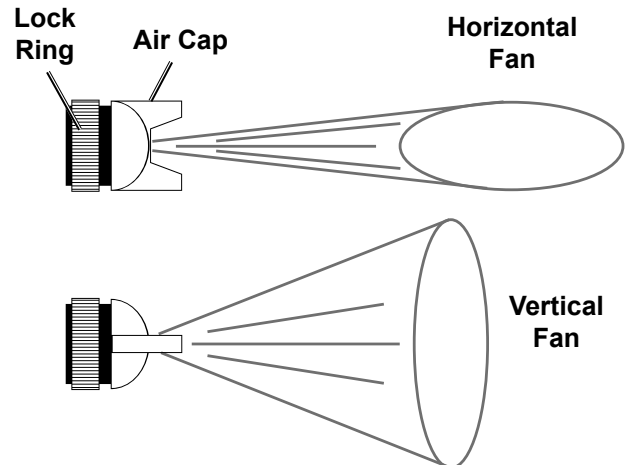
Note: When Spray Gun is idle, push in Air Vent to close.

Fan Pattern

To change fan pattern:

- a. Loosen Lock Ring by hand until Air Cap moves freely in clockwise direction.
- b. Turn Air Cap clockwise until proper fan pattern is achieved.

Note: If air escapes from Air Cap, tighten Lock Ring until no air escapes.



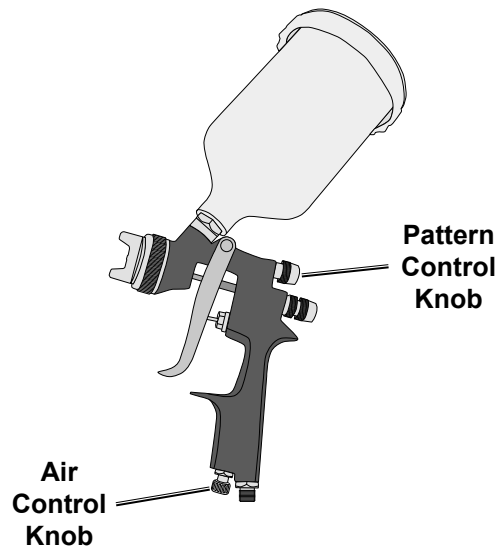
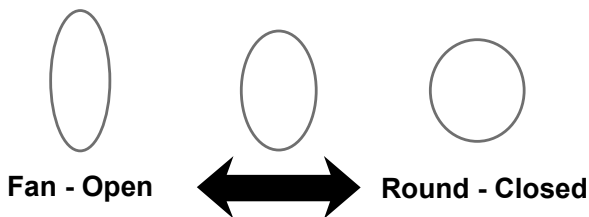
NOTICE

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Pattern Adjustment

Turn Pattern Control Knob counterclockwise (all the way open) for flat spray pattern.
Turn Pattern Knob clockwise (all the way closed) for a round spray pattern.

Note: When reducing pattern size for specific areas, close Air Control Knob a small amount at a time until proper pattern size is achieved.

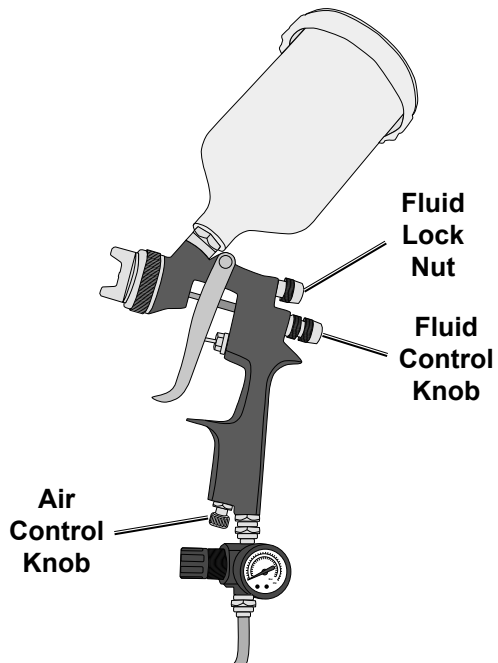


Fluid/Air Adjustment

1. Attach spray gun regulator to Air Inlet.
2. Attach air hose to regulator.
3. Turn on air compressor according to manufacturer's directions and allow it to build up pressure until it cycles off.
4. Adjust air compressor's regulator so that the air output is 60 PSI for.
5. Open Air Control Knob fully (counterclockwise).
6. Fully depress Trigger, then set Spray Gun's regulator to 45 PSI (maximum).
11. To lock fluid adjustment turn Fluid Lock Nut clockwise until it stops against the Spray Gun.
12. If paint is too thick, thin paint according to manufacturer's instructions and repeat instructions above.

Note: If Spray Gun's regulator cannot reach maximum pressure, slowly adjust compressor's regulator until maximum pressure is achieved at Spray Gun's regulator.

7. Open Fluid Control Knob (counterclockwise) until Trigger can be fully depressed.
8. Turn Fluid Lock Nut clockwise until it stops against the Spray Gun body.
9. Spray on piece of scrap material in short bursts, then check consistency.
10. If necessary, slowly close Fluid Control Knob and/or Air Control Knob (clockwise), then spray on scrap material until desired consistency is achieved.



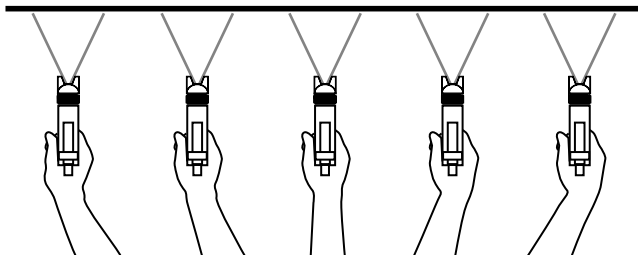
NOTICE

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DO NOT USE LATEX PAINT IN THIS SPRAY GUN.

Spraying Technique

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

1. First, clean and prepare Spray Gun according to instructions under **Before First Use on page 10 and Spray Gun Setup and Adjustment on page 12.**
2. Keep Spray Gun upright and at a right angle to surface - **See Figure B and Figure C.**



Correct Gun Angle

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

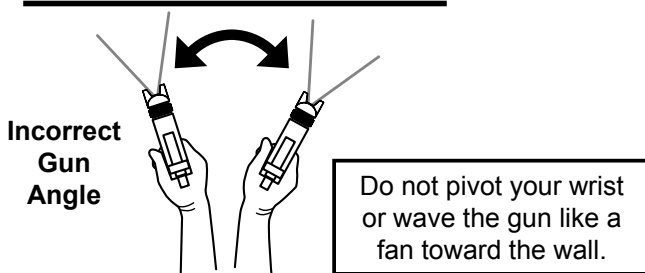


Figure B: Spray Gun Angle - top view

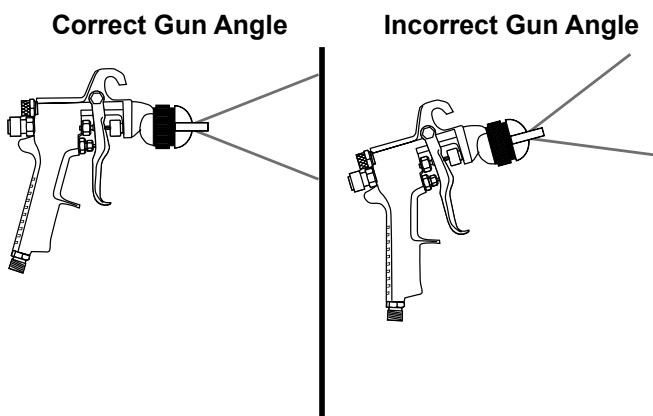


Figure C: Spray Gun Angle - side view

NOTICE: DO NOT STOP WHEN SPRAYING.

Spraying materials will start to set and dry as soon as they come in contact with air.

3. Depress Trigger fully and move Spray Gun in parallel strokes to surface.
4. Keep Spray Gun 6" distance from surface.
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 Spray Gun before fully depressing Trigger.
 - c. Fully depress Trigger before contacting surface.
 - d. When finished with stroke, release Trigger while still moving Spray Gun and after passing surface - see Figure D.

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

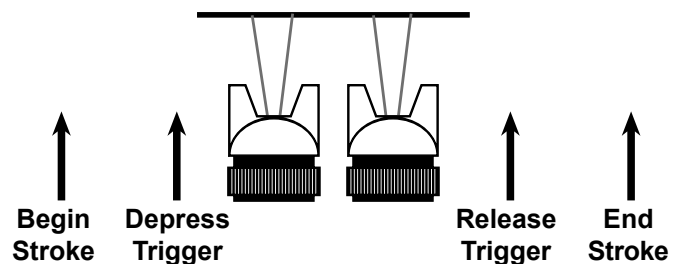


Figure D: Paint Stroke Triggering - top view

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

CAUTION! Air hose fittings may get hot.

Allow fittings to cool before disconnecting, or wear gloves to prevent burns.

6. To prevent accidents, after use, release Trigger, detach air supply, safely discharge any residual air pressure, and release Trigger again.
7. **Clean Spray Gun and Cup IMMEDIATELY after EVERY use and when Spray Gun will be idle for more than 30 minutes. Delayed or inadequate cleaning will permanently clog Spray Gun. See Post-Cleaning on page 15.**

NOTICE

Clean Spray Gun and Cup IMMEDIATELY after EVERY use and when Spray Gun will be idle for more than 30 minutes. Delayed or inadequate cleaning will permanently clog Spray Gun.
DO NOT USE LATEX PAINT IN THIS SPRAY GUN.

After Every Use



WARNING! TO PREVENT SERIOUS INJURY: TO PREVENT FIRE, IF A FLAMMABLE SOLVENT NEEDS TO BE USED, ADHERE TO THE FOLLOWING:

- Follow solvent manufacturer's clean up instructions and safety precautions.
- Flush Spray Gun a full hose length from air compressor.
- If collecting flushed solvents in metal container, transfer to nonmetal container, and flush metal container.
- Work far away from any ignition sources in a vapor free area.
- Keep class ABC fire extinguisher nearby.

Solvent Selection

Follow paint and solvent manufacturer's recommendations for cleaning, solvent type, and disposal.

Post-Cleaning

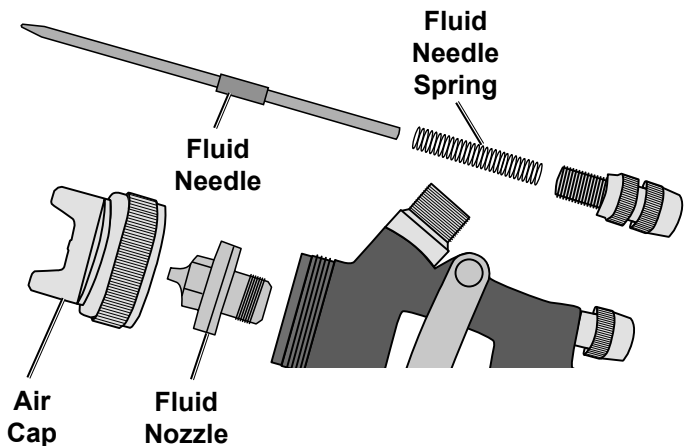
NOTICE: Do not immerse Spray Gun Body in solvent. Do not allow solvent to enter air inlet.

- Use solvent recommended by paint manufacturer.
- Designate a container for spent solvent.
- Remove Cup's Lid. Carefully scrape paint out of Cup and dispose of excess paint properly.
- Add 1/4 cup of solvent (sold separately) to Cup. Replace Lid and Close Air Vent, then shake Spray Gun for several seconds.
- Remove Lid, pour solvent into spent solvent container and wipe away any paint residue from Cup and Lid with clean cloth.
- Add 1/4 cup of solvent to Cup. Replace Lid and pull out Air Vent to open.
- Open Fluid Control Knob and Fluid Lock Nut (counterclockwise) until four threads are showing. Turn Fluid Control Knob Lock clockwise until it stops against the Spray Gun body.
- Open Air Control Knob fully.
- Point Spray Gun at interior side of spent solvent container. Depress Trigger and slightly shake Spray Gun while spraying solvent into container. Once Cup is empty, repeat process until solvent comes out clean.
- Disconnect Spray Gun from air source.
- After disconnecting, point Spray Gun into spent solvent container and depress Trigger again to make sure no air remains.
- Remove Regulator and Cup.

Spent Solvent Disposal

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

- Remove Air Cap. Depress Trigger to retract Fluid Needle, then remove Fluid Nozzle with included wrench.
- Remove Fluid Control Knob, Fluid Needle Spring, and Fluid Needle.



- 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. Do not bend Fluid Needle.

- Wipe down Spray Gun Body with a clean cloth and solvent.
- Make sure all parts are dry and free from residual paint, then reassemble Spray Gun. Make sure Air Valve's pin slides into top hole.

NOTICE: Do not use any kind of lubricant in air supply or air inlet. 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 air supply and safely discharge any residual air pressure in 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 regular checks and maintenance explained as part of regular operation of air-operated tool.

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

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

Air Supply Maintenance

Every day, perform maintenance on air supply according to component manufacturers' instructions.

Storage





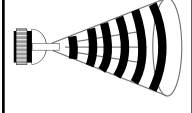

Open Fluid Control Knob and store in a dry, secure area out of reach of children.

NOTICE

Clean Spray Gun and Cup IMMEDIATELY after EVERY use and when Spray Gun will be idle for more than 30 minutes. Delayed or inadequate cleaning will permanently clog Spray Gun.
DO NOT USE LATEX PAINT IN THIS SPRAY GUN.

Troubleshooting - Spray Pattern Diagnosis

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

Problem	Possible Causes	Likely Solutions
 Heavy center pattern	<ol style="list-style-type: none"> 1. Pattern Knob partially closed. 2. Paint too thick. 3. Air pressure too low. 	<ol style="list-style-type: none"> 1. Open Pattern Knob more. 2. Thin paint according to manufacturer's instructions. 3. Increase air pressure within Working Air Pressure.
 Light center pattern	<ol style="list-style-type: none"> 1. High air pressure. 2. Fluid Knob not open enough. 3. Pattern Knob open too far. 	<ol style="list-style-type: none"> 1. Reduce air pressure. 2. Open Fluid Knob. 3. Partially close Pattern Knob.
 Heavy top/ bottom pattern	<ol style="list-style-type: none"> 1. Air Cap plugged. 2. Air Cap loose. 3. Dried paint on Fluid Nozzle. 	<ol style="list-style-type: none"> 1. Clean Air Cap. 2. Clean and tighten Air Cap. 3. Use a nonmetallic point to clean Fluid Nozzle.
 Pattern on right or left only	<ol style="list-style-type: none"> 1. Buildup on one side of Fluid Nozzle. 2. Holes on one side of Air Cap are plugged. 	<ol style="list-style-type: none"> 1. Use a nonmetallic point to clean Fluid Nozzle. 2. Use a nonmetallic point to clean Air Cap.
 Jerky or Fluttering Spray	<ol style="list-style-type: none"> 1. Loose or damaged Air Cap. 2. Paint level low. 3. Obstruction in Fluid Inlet. 4. Air Vent closed. 	<ol style="list-style-type: none"> 1. Tighten or replace. 2. Fill paint Cup. 3. Backflush with solvent. 4. Open Air Vent.
 Follow all safety precautions whenever diagnosing or servicing tool. Disconnect air supply before service.		

SAFETY

SETUP


OPERATION

MAINTENANCE

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General Troubleshooting Chart

Problem	Possible Causes	Likely Solutions
Sputtering Spray	1. Low paint level. 2. Cup tipped. 3. Clogged Air Vent on Cup. 4. Loose Fluid Inlet connection.	1. Refill. 2. Hold upright. 3. Clean Air Vent. 4. Tighten Fluid Inlet connection
Will Not Spray	1. No pressure at Spray Gun. 2. Fluid Knob not open enough. 3. Fluid too thick.	1. Check air hoses and regulator. 2. Open Fluid Knob. 3. Thin fluid or increase air pressure. (Do not exceed maximum.)
Excess overspray (Paint drifting to unintended objects.)	1. Improper application speed. 2. Improper distance from surface. 3. Too much air pressure.	1. Move moderately and parallel. 2. Adjust distance. 3. Reduce air pressure.
Fluid Nozzle Leakage	Buildup on Fluid Nozzle.	Use a nonmetallic point to clean Fluid Nozzle.
Air Leaking from Air Cap	Buildup on Air Valve.	Clean Air Valve.
 Follow all safety precautions whenever diagnosing or servicing tool. Disconnect air supply before service.		

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.

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.

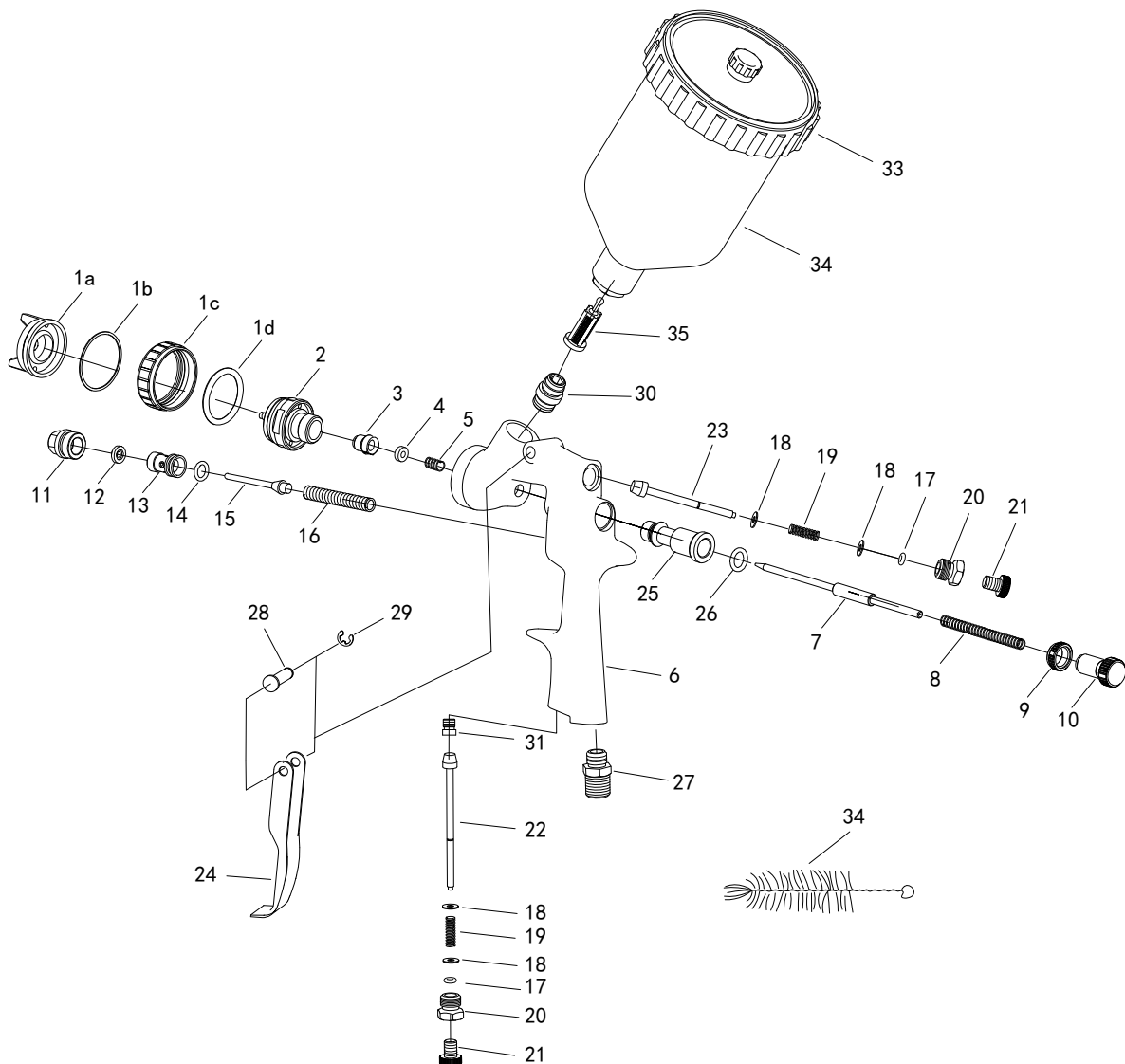
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Parts List and Diagram

Part	Description	Qty
1a	Air Cap	1
1b	Gasket	1
1c	Lock Ring	1
1d	Gasket	1
2	Air Nozzle 1.4mm	1
3	Fluid Needle Seat	1
4	Fluid Needle Packing	1
5	Fluid Needle Spring	1
6	Gun Body	1
7	Fluid Needle	1
8	Spring	1
9	Fluid Control Nut	1
10	Fluid Control Knob	1
11	Air Valve Nut	1
12	Air Valve Packing Ring	1
13	Air Valve Bushing	1
14	O-Ring	1
15	Air Valve Needle	1
16	Air Valve Spring	1

Part	Description	Qty
17	O-Ring	2
18	Washer	4
19	Air Inlet Set Spring	2
20	Air Inlet Set Nut	2
21	Air Control Knob	2
22	Air Inlet Set Needle	1
23	Pattern Control Needle	1
24	Trigger	1
25	Fluid Valve Bushing	1
26	O-Ring	1
27	Air Inlet	1
28	Trigger Pin	1
29	Retaining Ring	1
30	Bushing	1
31	Inlet Plug	1
32	Cup	1
33	Cup Lid	1
34	Brush	1
35	Filter	1



SAFETY

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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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