

Grizzly **Industrial, Inc.**®

PROFESSIONAL SPRAY SET W/ TWO QUART PRESSURE CUP

MODEL H7668

INSTRUCTION MANUAL



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#PC7424 PRINTED IN CHINA



WARNING!

Some dust created by power sanding, sawing, grinding, drilling, and other construction activities contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm. Some examples of these chemical are:

- Lead from lead-based paints.
- Crystalline silica from bricks, cement and other masonry products.
- Arsenic and chromium from chemically-treated lumber.

Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: Work in a well ventilated area, and work with approved safety equipment, such as those dust masks that are specially designed to filter out microscopic particles.

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SECTION 1: SAFETY

WARNING

For Your Own Safety Read Instruction Manual Before Operating This Equipment

The purpose of safety symbols is to attract your attention to possible hazardous conditions. This manual uses a series of symbols and signal words which are intended to convey the level of importance of the safety messages. The progression of symbols is described below. Remember that safety messages by themselves do not eliminate danger and are not a substitute for proper accident prevention measures.

DANGER

Indicates an imminently hazardous situation which, if not avoided, WILL result in death or serious injury.

WARNING

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

CAUTION

Indicates a potentially hazardous situation which, if not avoided, MAY result in minor or moderate injury. It may also be used to alert against unsafe practices.

NOTICE

This symbol is used to alert the user to useful information about proper operation of the equipment.

WARNING

Safety Instructions For Pneumatic Tools

- KEEP ALL SAFETY DEVICES IN PLACE** and in working order.
- REMOVE ADJUSTING KEYS AND WRENCHES.** Form habit of checking to see that keys and adjusting wrenches are removed from tool before operation.
- KEEP WORK AREA CLEAN.** Cluttered areas and benches invite accidents.
- DO NOT USE IN DANGEROUS ENVIRONMENT.** Do not use pneumatic tools in damp or wet locations, or where any flammable or noxious fumes may exist. Keep work area well lighted.
- KEEP CHILDREN AND VISITORS AWAY.** All children and visitors should be kept at a safe distance from work area.
- MAKE WORKSHOP CHILD PROOF** by locking your shop and shutting off air valves.
- DO NOT FORCE TOOL.** It will do the job better and safer at the rate for which it was designed.
- USE THE RIGHT TOOL.** Do not force tool or attachment to do a job for which it was not designed.
- DO NOT USE UNDER THE INFLUENCE OF DRUGS OR ALCOHOL.**

WARNING

Safety Instructions for Pneumatic Tools

10. **USE PROPER AIR HOSE** for the tool. Make sure your air hose is in good condition and is long enough to reach your work without stretching.
11. **WEAR PROPER APPAREL.** Do not wear loose clothing, gloves, neckties, rings, bracelets, or other jewelry which may get caught in moving parts. Non-slip footwear is recommended. Wear a protective hair covering to contain long hair.
12. **ALWAYS USE SAFETY GLASSES.** Also use a face or dust mask if cutting operation is dusty. Everyday eyeglasses only have impact resistant lenses, they are NOT safety glasses.
13. **WEAR APPROVED HEARING PROTECTION.** Air escaping from pneumatic tools can exceed safe exposure limits and may cause hearing damage with prolonged exposure.
14. **SECURE WORK.** Use clamps or a vise to hold work when practical. It is safer than using your hand and frees both hands to operate tool.
15. **MAINTAIN TOOLS WITH CARE.** Keep tools lubricated and clean for best and safest performance. Follow instructions for lubricating and changing accessories.
16. **REDUCE THE RISK OF UNINTENTIONAL STARTING.** Do not carry tool with hand on trigger and always disconnect from air when not in use.
17. **DISCONNECT TOOLS** before servicing, changing accessories, or moving to another location.
18. **DO NOT OVERREACH.** Keep proper footing/balance at all times.
19. **USE THE RECOMMENDED ACCESSORIES.** Consult owner's manual for recommended accessories. The use of improper accessories may cause risk of injury.
20. **CHECK FOR DAMAGED PARTS BEFORE USING.** Check for binding and alignment of parts, broken parts, part mounting, loose bolts, and any other conditions that may affect machine operation. Repair or replace damaged parts.
21. **NEVER LEAVE UNATTENDED TOOL CONNECTED TO AIR.** Disconnect the air hose and do not leave tool until it is relieved of any built up pressure.
22. **NEVER ALLOW UNTRAINED USERS TO USE THIS TOOL WHILE UNSUPERVISED.**
23. **IF YOU ARE UNSURE OF THE INTENDED OPERATION, STOP USING TOOL.** Seek formal training or research books or magazines that specialize in pneumatic tools.
24. **BE AWARE OF HOSE LOCATION WHEN USING PNEUMATIC TOOLS.** Hoses can easily become a tripping hazard when laid across the floor or spread out in a disorganized fashion.

WARNING

Additional Safety Instructions for Spray Guns

1. **READ THIS MANUAL.** This manual contains proper operating instructions for this spray gun.
2. **READ MATERIAL LABELS and MATERIAL SAFETY DATA SHEETS (MSDS).** Read and know all the instructions on the packaging label and the MSDS before opening the package. This information could save your life.
3. **ALWAYS WEAR A NIOSH APPROVED RESPIRATOR WHEN SPRAYING OR WORKING AROUND FINISHING MATERIALS.**
4. **FIRE EXTINGUISHERS.** Always have a fully charged multi class or class B fire extinguisher in the immediate area.
5. **FLAMMABLE MATERIAL.** NEVER spray near open flame or where any spark could occur.
6. **FRESH AIR.** Always provide adequate exhaust to keep area free of built up vapors, NEVER spray in an enclosed space.
7. **DISCONNECT COMPRESSED AIR.** Always disconnect the spray gun from compressed air before cleaning, changing attachments or when performing maintenance of any kind on this tool.
8. **PROTECTIVE CLOTHING.** Protect exposed skin from overspray by wearing a protective suit or other approved garment.
9. **INAPPROPRIATE USE.** DO NOT point or shoot spray gun directly at yourself or another person or animals. Do not attempt to use the spray gun for any other use than it was intended.
10. **STORAGE.** Thoroughly clean and dry spray gun before storage. Store in an approved cabinet.
11. **SOLVENTS.** Always store solvents and shop towels soaked in solvent in approved containers.
12. **EYE PROTECTION.** Wear eye protection whenever spraying or cleaning. Solvents and chemicals can cause serious eye injury, which could lead to blindness.
13. **OPERATING PRESSURE.** DO NOT exceed the recommended inlet air pressure. Excessive pressure could cause the spray gun to burst or cause other internal equipment damage.
14. **LOCAL LAWS.** Consult local authorities regarding V.O.C. exhaust and waste disposal requirements.
15. **DEPRESSURIZE TANK.** Make sure tank is fully depressurized before removing lid.
16. **HOSES.** Be aware of hoses to avoid tripping.

SECTION 2: INTRODUCTION

Foreword

We are proud to offer the Grizzly Model H7668 Spray Gun. This model is part of a growing Grizzly family of fine tools. When used according to the guidelines set forth in this manual, you can expect years of trouble-free, enjoyable operation, and proof of Grizzly's commitment to customer satisfaction.

The Model H7668 is designed to be used for bigger jobs where large volumes of material are needed and greater painter mobility is required. The two quart capacity allows the painter to spray with one hand and carry the pressure cup with the other.

It is our pleasure to provide this manual with the Model H7668. It was written to encourage safety considerations and guide you through general operating procedures and maintenance.

The specifications, details, and photographs in this manual represent the Model H7668 as supplied when the manual was prepared. However, owing to Grizzly's policy of continuous improvement, changes may be made at any time with no obligation on the part of Grizzly.

Tool Data

Type.....Pressurized Cup
Fluid Tip..... 1.4 mm
Air Consumption.....8.8 CFM
Inlet Air Pressure.....2-3 Bar /29-43.5 PSI
Air Hose Inlet..... 1/4" NPT
Fluid Hose Inlet..... 3/8" NPS
Material Capacity..... 2 qt.

Contact Info

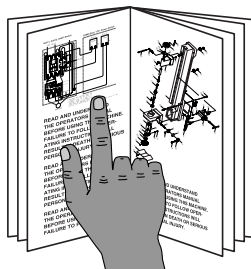
If you have any comments regarding this manual, please write to us at the following address:

Grizzly Industrial, Inc.
C/O Technical Documentation
P.O. Box 2069
Bellingham, WA 98227-2069

Most importantly, we stand behind our tools. If you have any service questions or parts requests, please call or write us at the location listed below.

Grizzly Industrial, Inc.
1203 Lycoming Mall Circle
Muncy, PA 17756
Phone: (570) 546-9663
Fax: (800) 438-5901
E-Mail: techsupport@grizzly.com
Web Site: <http://www.grizzly.com>

!WARNING



Read the manual before operation. Become familiar with this spray gun, its safety instructions, and its operation before beginning any work. Serious personal injury may result if safety or operational information is not understood or followed.

SECTION 3: SET UP

Unpacking

Your spray gun left our warehouse in a carefully packed box. If you discover the spray gun is damaged after you have signed for delivery, *please immediately call Customer Service at (570) 546-9663 for advice.*

Save the containers and all packing materials for possible inspection by the carrier or its agent. *Otherwise, filing a freight claim can be difficult.*

When you are completely satisfied with the condition of the shipment, you should inventory the equipment.

Inventory

After you have unpacked the carton you should find the following:

Model H7668 Inventory (Figure 1)

- A. Pressure Cup 1
- B. Spray Gun 1
- C. Hook/Handle 1
- D. Air & Fluid Hose 1
- E. Tool Kit (not shown) 1
 - Service Wrench 1
 - Cleaning Brush 1

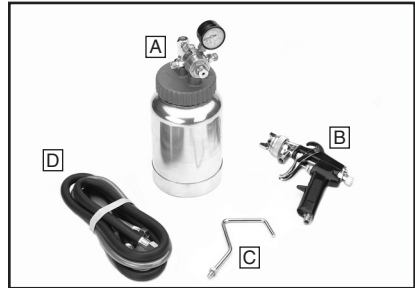


Figure 1. Model H7668 inventory.

Assembly

1. Attach the hook/handle on the cap with 19mm and 14mm wrenches (see **Figure 2**).



Figure 2. Installing hook/handle.

2. Attach the $\frac{3}{8}$ " fluid hose to the $\frac{3}{8}$ " outlet on the cap (see **Figure 3**).

Note: Make sure all hose connections are tight enough to prevent air leaks.



Figure 3. Installing fluid hose.

3. Attach the other end of the $\frac{3}{8}$ " fluid hose to the $\frac{3}{8}$ " fluid inlet on the spray gun body (see **Figure 4**).



Figure 4. Attaching fluid hose to spray gun.

4. Attach the $\frac{1}{4}$ " air hose to the $\frac{1}{4}$ " air outlet on the cap (see **Figure 5**).

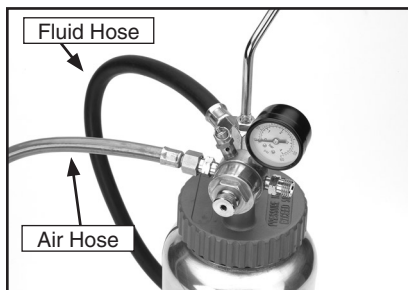


Figure 5. Air hose installed.

5. Attach the other end of the $\frac{1}{4}$ " air hose to the $\frac{1}{4}$ " air inlet on the spray gun body (see **Figure 6**).



Figure 6. Attaching hose to spray gun.

- Attach the compressed air line to the air inlet as shown in **Figure 7**. However, wait until you have mixed your paint material and are ready to spray to complete this step (see **Spraying** on **Page 11**).

Note: Using a 1/4" NPT quick disconnect set-up on the inlet air line (not included and not shown), will make operation and maintenance tasks easier.

Note: For the best results, use a filter that will extract water and oil contaminants and a hose that will be dedicated for spray use only. Do not use a hose that has been used with an in-line oiler or other possible contaminant.

If you need additional help with this assembly, call our Technical Support at: (570) 546-9663.

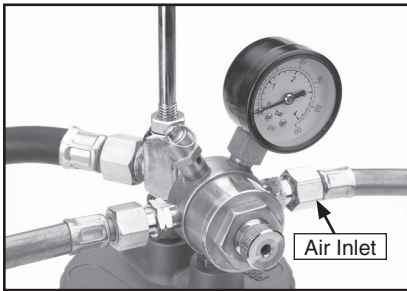


Figure 7. Compressed air inlet location.

Controls

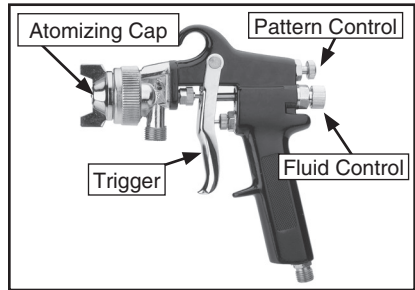


Figure 8. Controls.

- Fluid Control:** Controls the volume of material that travels through the fluid tip.
- Pattern Control:** Adjusts the spray pattern from a round pattern to a wide fan.
- Atomizing Cap:** Controls the spray pattern from vertical to horizontal.
- Trigger:** Two stage trigger. Stage one only releases compressed air for blowing off the work piece. Stage two sprays material.
- Pressure Control Knob:** Controls the fluid pressure inside the spray gun.
- Safety Valve:** Releases unsafe pressure build-up from pressure cup.

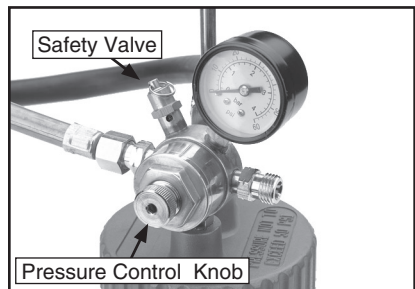


Figure 9. Pressure cup controls.

SECTION 4: OPERATIONS

! DANGER



EXPLOSION HAZARD! DO NOT smoke or have any source of flame or spark near spraying. Vapors will explode if ignited.

! WARNING



RESPIRATORY HAZARD! Always use a NOISH approved respirator when using spray equipment. Failure to protect your lungs can lead to respiratory illness and nervous system damage.

! WARNING



TOXIC FUMES! Always use an approved spray booth or well ventilated area when spraying. NEVER spray in a confined space where toxic fumes and flammable vapors can accumulate to deadly levels.

Spraying

The Model H7668 spray system is designed to spray medium to high solid materials, like lacquers, stains, primers, multi-component paints, acrylics, epoxies etc. It is ideal for auto body, farm and commercial maintenance projects. It is not for use with any waterborne material.

To use your spray system:

1. Read and follow the material manufacturer's instructions for spraying, mixing, safety, disposal, and any other instruction on the label or Material Safety Data Sheet (MSDS).
2. After mixing, filter the material through a strainer while filling the pressure cup. (Strainers are available from your paint supplier.)
3. Fill the pressure cup $\frac{3}{4}$ full or less. **DO NOT OVERFILL.** Overfilling will cause pressurization problems and contribute to leaks and spills.
4. Tighten the cap securely on the pressure cup and ensure all other fittings are secure to avoid air leaks or material spills.
5. Set the inlet air pressure (the air coming to the pressure cup) between 29 and 43.5 PSI or to the material manufacturer's recommendations. **DO NOT exceed 50 PSI for any reason.**

Note: *Periodically pull the ring on the safety valve to ensure it moves freely. Do not use the pressure cup if the safety valve is not working!*

6. Set the pressure control knob to regulate the fluid pressure to the gun. Please follow material manufacturer's recommendations for this setting.
7. Adjust the atomizing cap to vertical or horizontal. See **Atomizing Cap and Fan Adjustments** on **Page 13** for further explanation.
8. Trial and error are necessary to achieve the results you want along with a fair amount of practice. Test your material flow and spray pattern on a piece of cardboard or some scrap of material similar to your project.
9. Adjust the fluid control knob to start with a low volume of material and keep the atomization as low as possible. You will need to use a combination of fluid control, inlet air pressure, air flow control and stroke speed to achieve the results you want. Spray so the material wets out nicely without running or sagging.
10. Use the pattern control knob to adjust the spray fan to your desired pattern.
11. Keep the gun tip perpendicular, parallel and 8-10" from the work at all times when spraying as shown in **Figure 10**. Do not allow your wrist to bend. This will cause the gun to arc across the surface and distribute the material unevenly, possibly creating sags and dry spots.

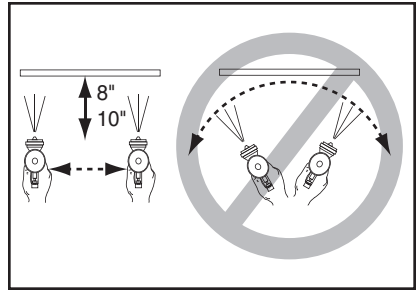


Figure 10. Spray technique.

12. Begin spraying 2-3 inches before the work and continue to the end of the work. Continue the motion for a few inches past the work until you are ready for the return stroke.
13. Maintain an even speed when spraying.
14. Overlap each stroke by 50%. This will ensure even coverage as shown in **Figure 11**. Less than 50% as shown in the figure to the right may lead to missed spots or streaky results.

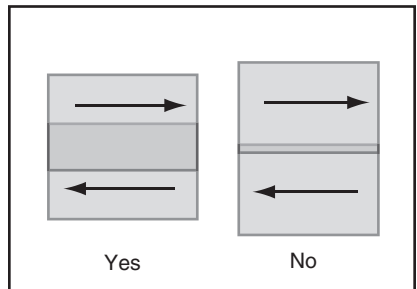


Figure 11. Overlap technique.

15. Spray stroke should have even consistency and parallel edges. If it doesn't please refer to **Troubleshooting** on **Page 18**.

Atomizing Cap and Fan Adjustments

The atomizing cap needs to be adjusted for horizontal or vertical spraying patterns. Spraying in the wrong direction may lead to material build up on the atomizing cap horn. Many performance problems are caused by clogged atomizing holes on the atomizing cap horns (see **Cleaning** on **Page 15**).

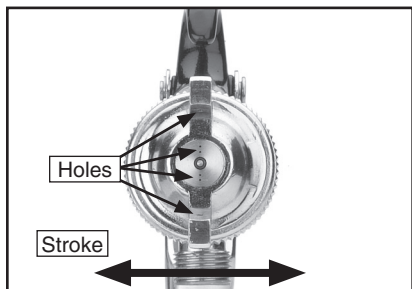


Figure 12. Set up for horizontal stroke direction with vertical fan pattern.

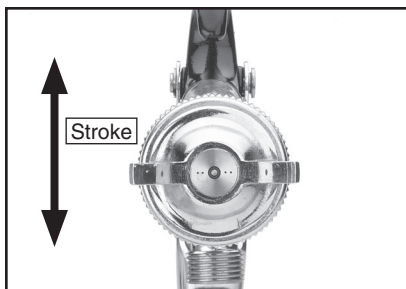


Figure 13. Set up for vertical spray stroke with horizontal fan pattern.

Rotating the pattern adjustment knob in **Figure 14** will give you a range between the two patterns in **Figure 15**.

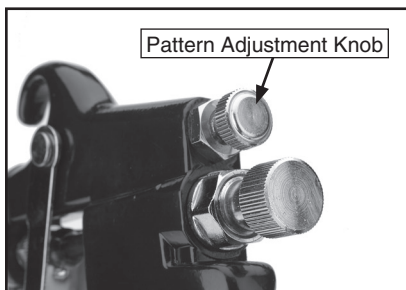


Figure 14. Pattern adjustment knob.

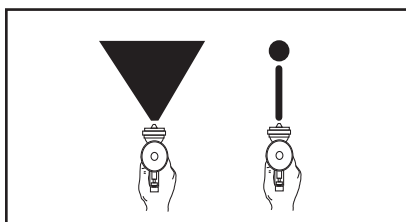


Figure 15. Fan patterns.

SECTION 5: ACCESSORIES

G6261—Campbell Hausfeld™ Water Filter

Remove damaging water vapor before it reaches your pneumatic tools. This highly effective, five micron filter features a see through bowl and easy in-line connections. 150 PSI maximum air pressure. ¼" NPT.



Figure 16. G6261 Campbell Hausfeld™ water filter.

G8114—¾" x 25 Ft. Air Hose

G8115—¾" x 50 Ft. Air Hose

G8116—¾" x 100 Ft. Air Hose

Multi-purpose red rubber air hose is flexible and abrasion resistant. Rated for 200 PSI, this air hose has a bursting strength of 800 PSI ¼" NPT ends.



Figure 17. Red rubber air hose.

H7274—Campbell Hausfeld™ Pressure Regulator

Mini Series. Provides regulated output pressure of 0 to 125 PSI for proper tool operation. Locking pressure knob prevents accidental adjustments. 15 SCFM flow capacity @ 90 PSI. ¼" NPT.



Figure 18. H7274 Campbell Hausfeld™ pressure regulator.

H3174—Air Blow Gun with 2 Tips

This air blow gun includes a safety tip and rubber tip for all normal air cleaning jobs. ¼" NPT .



Figure 19. H3174 Air Blow Gun with 2 Tips.

Call 1-800-523-4777 To Order

SECTION 6: MAINTENANCE

Cleaning

Proper cleaning is the best way to ensure trouble free performance from your spray system. If your system is not thoroughly cleaned, damage and poor spraying will result. Problems caused by improper cleaning will not be covered by the warranty. Clean the spray gun, hose and pressure cup immediately after each use.

To clean your spray system:

1. Depressurize the cup by disconnecting from the compressed air and bleed the system by loosening (DO NOT REMOVE) the pressure relief valve until "zero" pressure is recorded on the pressure cup gauge (see **Figure 20**).

!WARNING

EXPLOSION HAZARD! Do not unscrew pressure cup lid while under pressure! Exploding paint material and solvents could cause serious injury!



Figure 20. Pressure relief valve.

!WARNING

HEALTH & CONTAMINATION HAZARD! Dispose of paint waste in a responsible manner! Follow manufacturer's recommendations and local laws regarding disposal. Failure to comply will result in contamination and possibly large fines and penalties.

2. Unscrew the cap and empty the pressure cup contents into an approved receptacle.

!WARNING

EXPLOSION HAZARD! Chlorinated Solvents like 1,1,1-Trichloroethane and Methylene Chloride (methyl chloride) can chemically react with aluminum and may explode. Many parts in spray guns and pressure cups are made of aluminum. Read your solvent label carefully before using solvent.

3. Clean pressure cup with solvent.
4. Add clean solvent to pressure cup, replace the lid and repressurize.
5. Spray the gun until the fluid sprays clear to clean the fluid hose.

Note: Check local laws regarding this practice. If you are spraying on a regular basis, spraying solvents into the air may be illegal. A closed system cleaner may be required.

6. Depressurize the system as explained in **Step 1**.
7. Disassemble the gun by disconnecting the hoses, unscrewing the fluid control knob, and removing the spring and needle.
8. Unscrew the atomizing cap with your fingers and the fluid tip with the service wrench. The fully disassembled gun should look like **Figure 21**.

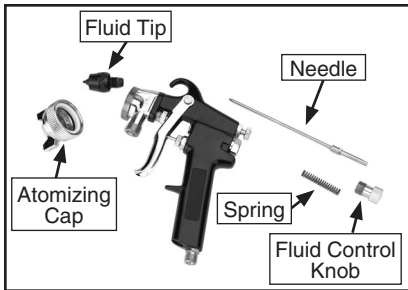


Figure 21. Disassembly for cleaning.

9. Rinse these parts thoroughly in solvent then dry with compressed air or let air dry.

Note: If the small holes in the atomizing cap become blocked, soak in clean solvent. If the blockage still exists, clear the blockage with a small needle, taking great care to not enlarge or damage the hole. Damage to the hole will create a disrupted spray pattern.

10. Use the cleaning brush with solvent to clean the inner orifice and other hard to reach areas on the outside of the spray gun body and pressure cup cap.
11. Wipe the rest of the gun body and pressure cup cap with a lint free shop towel and dry.
12. Hang the hose to dry and dry the pressure cup with a lint free shop towel.

NOTICE

DO NOT soak the spray gun body in solvent. Prolonged exposure to solvent will rapidly deteriorate the spray gun washers and seals. Ignoring this notice will void your warranty.

NOTICE

DO NOT soak the pressure cup cap in solvent. Soaking in solvent will damage safety valve and regulator parts. Ignoring this notice will void your warranty.

Lubrication

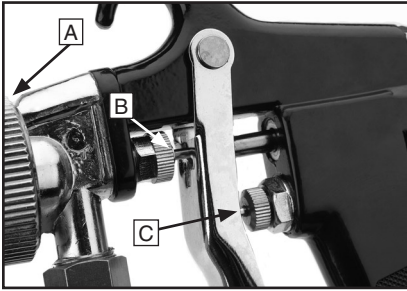


Figure 22. Lubrication points.

Lubricate the following areas in **Figures 22-24** with a non-silicon spray gun lubricant lube after each cleaning.

- A. Atomizing Cap Threads
- B. Air Valve Packing
- C. Trigger Pin
- D. Fluid Control Knob
- E. Pattern Control Knob
- F. Pressure Control Knob

Allow the lubricant to coat threads, and run into gun body to lubricate all moving parts and seals.

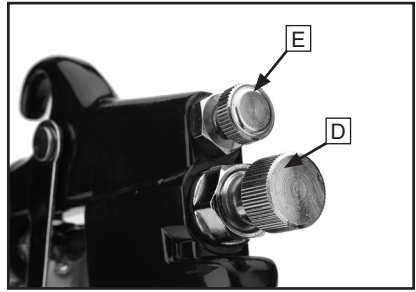


Figure 23. Control knob lubrication.

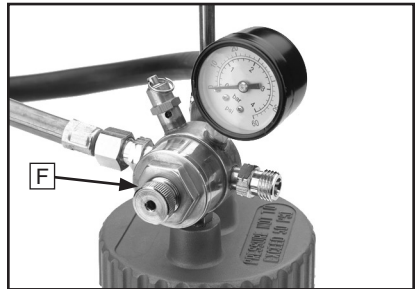







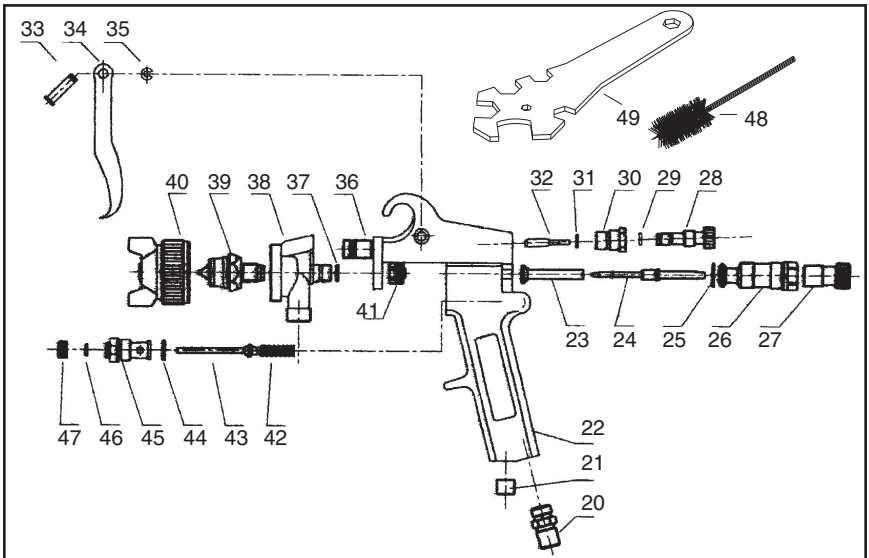
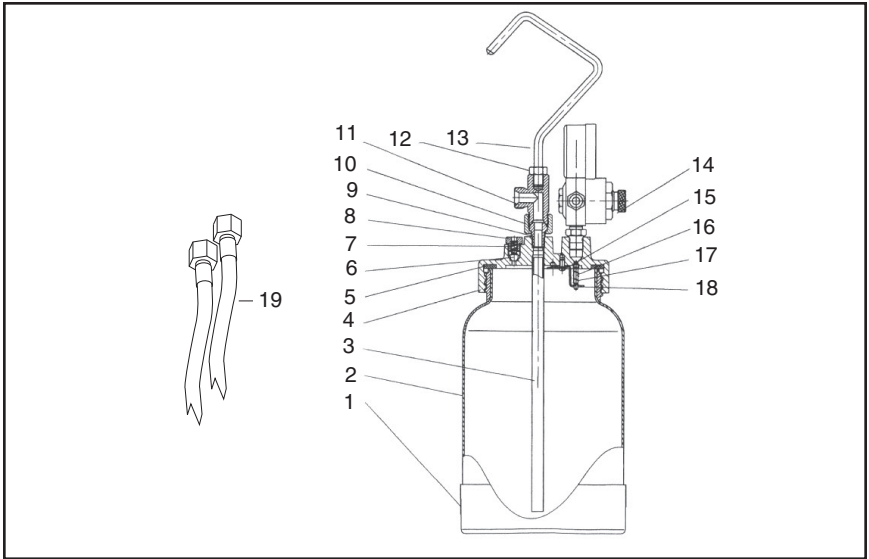
Figure 24. Pressure control threads.

Troubleshooting

| Symptom | Possible Cause | Solution |
|--|---|--|
| Fluttering or Spitting spray.  | <ol style="list-style-type: none"> 1. Dry or worn fluid tip seat permits air to seep into fluid passage. 2. Material level too low. 3. Fluid tip or strainer obstructed. 4. Dry needle packing. | <ol style="list-style-type: none"> 1. Tighten fluid tip or replace seat with new one. 2. Add material. 3. Clean 4. Lubricate needle. |
| Uneven top or bottom pattern.  | <ol style="list-style-type: none"> 1. Atomizing cap holes are obstructed. 2. Build-up on top or bottom of fluid tip. 3. Build-up on atomizing cap is on needle seat. | <ol style="list-style-type: none"> 1. Clear holes. 2. Clean. 3. Clean. |
| Right or left arc pattern.  | <ol style="list-style-type: none"> 1. Left or right side horn holes are plugged. 2. Build-up on left or right side of fluid tip. 3. Build-up of material inside atomizing cap. | <ol style="list-style-type: none"> 1. Clear holes. 2. Clean. 3. Clean. |
| Heavy deposit of material in center.  | <ol style="list-style-type: none"> 1. The material flow exceeds the atomizing cap capacity. 2. Inlet air pressure is too low. 3. Material is too thick. | <ol style="list-style-type: none"> 1. Lower fluid flow. 2. Increase inlet air pressure. 3. Thin material. |
| Narrow center pattern.  | <ol style="list-style-type: none"> 1. Volume control turned in too far. 2. Inlet air pressure too high. 3. Fluid pressure is too low. 4. Material is too thin. | <ol style="list-style-type: none"> 1. Increase volume. 2. Reduce inlet air pressure. 3. Increase fluid pressure. 4. Adjust material. |
| No spray output. | <ol style="list-style-type: none"> 1. No pressure at gun. 2. Fluid passages dirty. 3. Fluid control closed. 4. Out of paint. | <ol style="list-style-type: none"> 1. Check air supply. 2. Clean gun, remove any obstructions. 3. Open. 4. Refill. |

| Symptom | Possible Cause | Solution |
|---|---|--|
| Excessive over-spray. | <ol style="list-style-type: none"> 1. Fluid pressure too high. 2. Gun is too far from surface. 3. Spraying too fast. | <ol style="list-style-type: none"> 1. Reduce fluid pressure. 2. Keep gun at recommended distance. 3. Slow down and maintain consistent, even parallel stroke. |
| Unable to control spray fan. | <ol style="list-style-type: none"> 1. Pattern adjustment screw is not seating properly. 2. Atomizing cap is loose. | <ol style="list-style-type: none"> 1. Clean or replace. 2. Tighten atomizing cap. |
| Runs and sags. | <ol style="list-style-type: none"> 1. Damaged seal. | <ol style="list-style-type: none"> 1. Replace damaged seals. |
| Material leaks from pressure cup. | <ol style="list-style-type: none"> 1. Cap not secure. 2. Hose connections not tight. 3. Leaking from cap vent hole. | <ol style="list-style-type: none"> 1. Tighten. 2. Tighten. 3. Hold gun upright do not tilt. |
| Material leaks from gun. | <ol style="list-style-type: none"> 1. Fluid tip loose. 2. Fluid hose connection is not tight. 3. Dry or damaged seals. 4. Excessive pressure. | <ol style="list-style-type: none"> 1. Tighten. 2. Tighten. 3. Replace seals. 4. Reduce pressure. |
| Thick dimpled finish aka "Orange Peel." | <ol style="list-style-type: none"> 1. Holding gun too close to surface. 2. Inlet air pressure too low. 3. Material not properly mixed. 4. Surface is dirty or oily. | <ol style="list-style-type: none"> 1. Spray at recommended distance. 2. Check inlet air pressure. 3. Follow manufacturer's instructions. 4. More surface prep is required. |
| Dry Spray. | <ol style="list-style-type: none"> 1. Inlet air pressure too high. 2. Gun too far from surface. 3. Gun stroke too fast. | <ol style="list-style-type: none"> 1. Lower inlet air pressure. 2. Keep gun at recommended distance. 3. Slow down and maintain consistent even parallel stroke. |
| Gun leaks from fluid tip. | <ol style="list-style-type: none"> 1. Debris will not let the needle seat with the fluid tip. | <ol style="list-style-type: none"> 1. Clean or replace both. |
| Excess pressure in pressure cup. | <ol style="list-style-type: none"> 1. Safety valve not working. | <ol style="list-style-type: none"> 1. Discontinue use! 2. Relieve pressure. 3. Replace safety valve. |
| Contaminated paint, aka "Fish Eyes." | <ol style="list-style-type: none"> 1. Water or oil in the air line. | <ol style="list-style-type: none"> 1. Install an in-line air filter. 2. Replace air line. |

Parts Breakdown



Parts Breakdown

| REF | PART # | DESCRIPTION |
|-----|-----------|-----------------------|
| 1 | PH7668001 | POT BOTTOM |
| 2 | PH7668002 | CUP |
| 3 | PH7668003 | FLUID TUBE |
| 4 | PH7668004 | COVER |
| 5 | PH7668005 | RUBBER SPECIAL WASHER |
| 6 | PH7668006 | LATEX JAM |
| 7 | PH7668007 | COMPRESSION SPRING |
| 8 | PH7668008 | SPRING RELIEF VALVE |
| 9 | PH7668009 | PAINT INLET PLUG |
| 10 | PH7668010 | CENTERPOST |
| 11 | PH7668011 | FLUID OUTLET |
| 12 | PH7668012 | SPECIAL NUT |
| 13 | PH7668013 | NUT HANDLE |
| 14 | PH7668014 | REGULATOR ASSEMBLY |
| 15 | PH7668015 | SCREW |
| 16 | PH7668016 | CHECK VALVE |
| 17 | PH7668017 | COMPRESSION SPRING |
| 18 | PH7668018 | SPECIAL WASHER |
| 19 | PH7668019 | COMBO HOSE |
| 20 | PH7668020 | AIR INLET PLUG |
| 21 | PH7668021 | BLOCK |
| 22 | PH7668022 | GUN BODY |
| 23 | PH7668023 | DIRECTION PIPE |
| 24 | PH7668024 | FLUID ADJ. NEEDLE |
| 25 | PH7668025 | SPECIAL WASHER |

| REF | PART # | DESCRIPTION |
|-----|-----------|---------------------|
| 26 | PH7668026 | FLUID CONTROL SCREW |
| 27 | PH7668027 | FLUID ADJ. SCREW |
| 28 | PH7668028 | PATTERN ADJ. SCREW |
| 29 | PH7668029 | O-RING |
| 30 | PH7668030 | PATTERN ADJ. KNOB |
| 31 | PH7668031 | SNAP RETAINER |
| 32 | PH7668032 | PATTERN ADJ. NEEDLE |
| 33 | PH7668033 | SNAP RETAINER |
| 34 | PH7668034 | TRIGGER |
| 35 | PH7668035 | TRIGGER PIN |
| 36 | PH7668036 | CONNECT SCREW |
| 37 | PH7668037 | SPECIAL WASHER |
| 38 | PH7668038 | HEAD |
| 39 | PH7668039 | FLUID NOZZLE |
| 40 | PH7668040 | AIR CAP |
| 41 | PH7668041 | DIRECTION SCREW |
| 42 | PH7668042 | SWITCH SPRING |
| 43 | PH7668043 | SWITCH PIPE |
| 44 | PH7668044 | SEALING WASHER |
| 45 | PH7668045 | SWITCH SEAT |
| 46 | PH7668046 | SPECIAL WASHER |
| 47 | PH7668047 | SPECIAL NUT |
| 48 | PH7668048 | BRUSH |
| 49 | PH7668049 | SERVICE WRENCH |

WARRANTY AND RETURNS

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1. How did you learn about us?

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 Card Deck Website Other: _____

2. Which of the following magazines do you subscribe to?

Cabinet Maker Popular Mechanics Today's Homeowner
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 Hand Loader Popular Woodworking Wooden Boat
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 Journal of Light Cont. Projects in Metal Woodwork
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 Model Airplane News Rifle Woodworker's Journal
 Modeltec Shop Notes Other:
 Old House Journal Shotgun News

3. What is your annual household income?

\$20,000-\$29,000 \$30,000-\$39,000 \$40,000-\$49,000
 \$50,000-\$59,000 \$60,000-\$69,000 \$70,000+

4. What is your age group?

20-29 30-39 40-49
 50-59 60-69 70+

5. How long have you been a woodworker/metalworker?

0-2 Years 2-8 Years 8-20 Years 20+ Years

6. How many of your machines or tools are Grizzly?

0-2 3-5 6-9 10+

7. Do you think your machine represents a good value? Yes No

8. Would you recommend Grizzly Industrial to a friend? Yes No

9. Would you allow us to use your name as a reference for our customers in your area?

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10. Comments: _____

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