CENTRAL PNEUMATIC®

HEAVY DUTY AIR PAINT SPRAY GUN

Model 97855

SET UP AND OPERATING INSTRUCTIONS

Distributed exclusively by Harbor Freight Tools®.
3491 Mission Oaks Blvd., Camarillo, CA 93011
Visit our website at: http://www.harborfreight.com

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

For technical questions or replacement parts, please call 1-800-444-3353.

CONTENTS

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.

Safety Alert Symbol and Signal Words

In this manual, on the labeling, and all other information provided with this product:

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 **DANGER indicates a hazardous situation which, if not avoided, will result in death or serious injury.**

⚠WARNING **WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.**

⚠CAUTION **CAUTION, used with the safety alert symbol, indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.**

NOTICE **NOTICE is used to address practices not related to personal injury.**

CAUTION **CAUTION, without the safety alert symbol, is used to address practices not related to personal injury.**

IMPORTANT SAFETY INSTRUCTIONS

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

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

General

a. **To reduce the risks of fire and injury to persons, read all the instructions before using this tool.**

b. **Before using the spray gun for the first time, be sure to clean it out with a solvent based thinner.** The manufacturer often uses a red oil to test the units. This oil may contaminate the paint.

c. **It is important to clean the spray gun thoroughly after every use.**

Work area

a. **Keep the work area clean and well lighted.** Cluttered benches and dark areas increase the risks of electric shock, fire, and injury to persons.

b. **Do not operate the tool in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust.** The tool is able to create sparks resulting in the ignition of the dust or fumes.

c. ***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

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. **Avoid unintentional starting. Be sure the switch is off before connecting to the air supply.** Do not carry the tool with your finger on the switch or connect the tool to the air supply with the switch on.

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.** A dust mask, non-skid safety shoes and a hard hat must be used for the applicable conditions. Wear heavy-duty work gloves during use.

e.  **Always wear eye protection.** Wear ANSI-approved safety goggles.

Tool use and care

a. ***Use clamps or another practical way to secure and support the workpiece to a stable platform.*** Holding the work by hand or against the body is unstable and is able to lead to loss of control.

b. **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.

c. **Do not use the tool if the switch does not turn the tool on or off.** Any tool that cannot be controlled with the switch is dangerous and must be repaired.

d. **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.

e. ***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.

f. **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.

g. **Use only accessories that are identified by the manufacturer for the specific tool model.** Use of an accessory not intended for use with the specific tool model, increases the risk of injury to persons.

Service

a. ***Tool service must be performed only by qualified repair personnel.***

b. **When servicing a tool, use only identical replacement parts. Use only authorized parts.**

c. **Use only the lubricants supplied with the tool or specified by the manufacturer.**

Air source

a.  **Never connect to an air source that is capable of exceeding 115 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.

SYMBOLS AND SPECIFIC SAFETY INSTRUCTIONS

Symbol Definitions

Symbol	Property or statement
n_o	No-load speed
.../min	Revolutions or reciprocation per minute
PSI	Pounds per square inch of pressure
ft-lb	Foot-pounds of torque
BPM	Blows per minute
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.
	WARNING marking concerning Risk of Hearing Loss. Wear hearing protection.
	WARNING marking concerning Risk of Respiratory Injury. Wear NIOSH-approved dust mask/respirator.
	WARNING marking concerning Risk of Explosion.

Specific Safety Instructions

1. 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.

2. WARNING: Some airborne dust created by a spray gun may contain chemicals known [to the State of California] to cause cancer, birth defects or other reproductive harm. An example of this is:
   • Lead from lead-based paints
   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 or respirators that are specially designed to filter out microscopic particles. (California Health & Safety Code § 25249.5, *et seq.*)

WARNING: The brass components of this product contain lead, a chemical known to the State of California to cause birth defects (or other reproductive harm). (California Health & Safety code § 25249.5, *et seq.*)

3. Only use with accessories rated to handle the forces exerted by this tool during operation. Other accessories not designed for the forces generated may break and forcefully launch pieces.

4. Attach all accessories properly to the tool before connecting the air supply. A loose accessory may detach or break during operation.

5. Obey the manual for the air compressor used to power this tool.

6. Install an in-line shutoff valve to allow immediate control over the air supply in an emergency, even if a hose is ruptured.

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FUNCTIONAL DESCRIPTION

Specifications

Cup Capacity	1 Quart
Operating Air Pressure	60 PSI
Maximum Air Pressure	115 PSI
Air Consumption	10 SCFM @ 60 PSI
Air Inlet	1/4" -18 NPS
Nozzle Size	0.07"
Needle Size	1/8" dia.
Draw Type	Siphon Feed
Spray Pattern	Horizontal, vertical, round, diagonal

Components and Controls

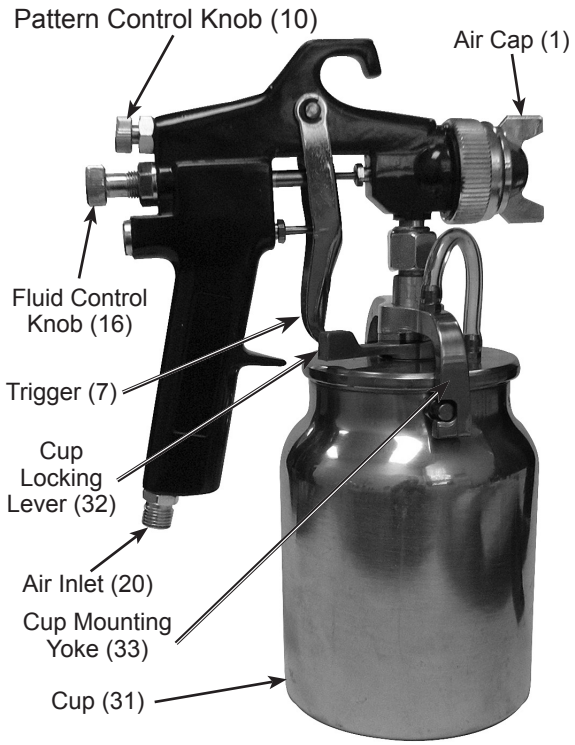

Fig. 1

INITIAL TOOL SET UP/ ASSEMBLY

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.

Unpacking

When unpacking, check to make sure that the item is intact and undamaged. If any parts are missing or broken, please call Harbor Freight Tools at the number shown throughout the manual as soon as possible.

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

Air Supply

WARNING **TO PREVENT 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.

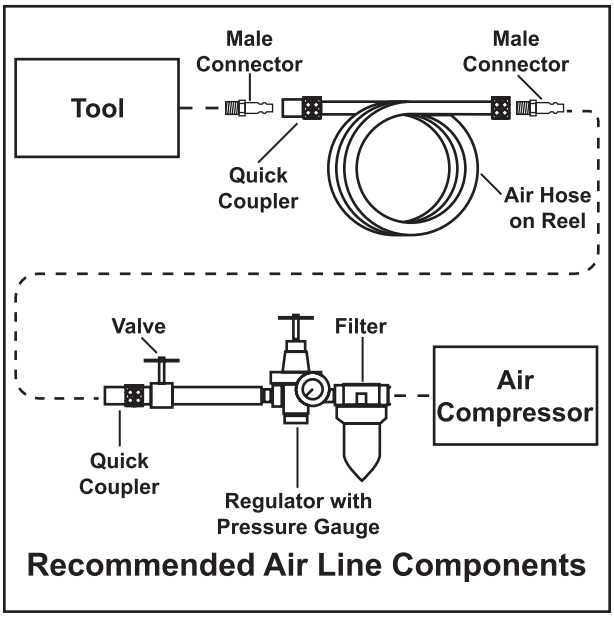

Fig. 2

1. Incorporate a shut-off valve, regulator with pressure gauge, and filter for best service, as shown in the diagram above. **An in-line shutoff valve is an important safety device because it controls the air supply even if the air hose is ruptured.**

2. Attach an air hose to the compressor's air outlet. Connect the air hose to the air inlet of the tool. Other components, such as a connector and quick coupler, will make operation more efficient, but are not required.

⚠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 the air tool to retain pressure and operate accidentally after the air supply is disconnected.

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

3. The air hose must be long enough to reach the work area with enough extra length to allow free movement while working.

4. Make sure the tool's throttle or trigger switch is in the off position; refer to Operation section for description of controls.

5. Close the in-line safety valve between the compressor and the tool.

6. Turn on the air compressor according to the manufacturer's directions and allow it to build up pressure until it cycles off.

7. Adjust the air compressor's output regulator so that the air output is enough to properly power the tool, but the output will not exceed the tool's maximum air pressure at any time. Adjust the pressure gradually, while checking the air output gauge to set the correct pressure range.

8. Attach the air supply hose to the tool. Inspect the air connections for leaks. Repair any leaks found.

9. If the tool will not be used at this time, 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 to prevent accidental operation.

Note: Residual air pressure should not be present after the tool is disconnected from the air supply. However, it is a good safety measure to attempt to discharge the tool in a safe fashion after disconnecting to ensure that the tool is disconnected and not under pressure.

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.

Tool Set Up

⚠WARNING TO PREVENT SERIOUS INJURY FROM ACCIDENTAL OPERATION:
Turn off the tool, detach the air supply, safely discharge any residual air pressure in the tool, and release the throttle and/or turn the switch to its off position before performing any inspection, maintenance, or cleaning procedures.

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.

1. The spray gun must be cleaned with a solvent based thinner before being used for the first time. If not done, the red oil used by the manufacturer for testing and corrosion protection may contaminate the paint.
2. This spray gun must be thoroughly cleaned after every use. If a solvent based paint was used, clean with a solvent based thinner. If a water based latex type paint was used then clean with water. If this is not done, it is likely that the spray gun will stop working properly.
3. Run the water or solvent through the Spray Gun under pressure for several minutes to clean out any residual paint material.

Work Piece and Work Area Set Up

1. Designate a work area that is clean and well-lit if possible. The work area must not allow access by children or pets to prevent injury and distraction.
2. Route the air hose along a safe route to reach the work area without creating a tripping hazard or exposing the air hose to possible damage. The air hose must be long enough to reach the work area with enough extra length to allow free movement while working.
3. Secure loose workpieces when necessary using a vise or clamps (not included) to prevent movement while working.
4. Spraying should be done away from objects and structures which are not intended to be painted.

General Operating Instructions

1. Start the compressor, allowing it to come up to the proper pressure for the tool.

2. Wipe off any lubricant that may have been applied from prior use. The Spray Gun can now be tested.

3. Fill the Cup (31) with the appropriate amount of paint (up to 3/4 full) of properly prepared material (see section on “Preparation”.

4. After the compressor cycles off at the proper pressure level, connect the air hose to the Air Inlet Coupling (20).

5. Attach the Cup (31) to the tool using the Cup Mounting Yoke (33) and secure with the Cup Locking Lever (32).

6. If the tool requires more force to accomplish the task, verify that the tool receives sufficient, unobstructed airflow (CFM) and increase the pressure (PSI) output of the regulator up to but not beyond, the maximum air pressure rating of this tool.
   CAUTION! TO PREVENT TOOL AND ACCESSORY FAILURE, RESULTING IN INJURY:
   Do not exceed the tool’s maximum air pressure rating.
   If the tool still does not have sufficient force at maximum pressure but the material being sprayed has proper viscosity, then a larger tool may be required.

7. To prevent accidents, turn off the tool, detach the air supply, safely discharge any residual air pressure in the tool, and/or turn the switch to its off position after use. Clean external surfaces of the tool with clean, dry cloth. Then store the tool indoors out of children’s reach.

8. **Change Fan Direction.**
   a. Loosen the Air Ring (2) and turn the Air Cap (1) to change spray pattern between horizontal and vertical.

9. **Pattern Adjustment.** (Never exceed maximum inlet pressure of 115 PSI.)
   a. To reduce air pressure when necessary, adjust the air compressor’s pressure regulator.
   b. To change between patterns, adjust the Pattern Control Knob (10). Turn counterclockwise (all the way open), to flatten the pattern. Turn clockwise for a round pattern.

10. For best service you should incorporate a regulator and in-line filter, as shown in the diagram above. Hoses, couplers, regulators, and filters are all available at Harbor Freight Tools.

Note: Compressor pumps discharge condensed water, oil, or other contaminants along with the compressed air. Condensation causes “fish eyes” to appear in paint patterns. To avoid this problem, install water/oil removal filters and controls (not included) as close to the Spray Gun as possible. If run through the Spray Gun, water or oil will cause damage.

11. You will need to prepare a 1/4" air connector (sold separately) to connect to the air inlet on the Spray Gun. First, wrap the 1/4" air connector (not included) with pipe thread seal tape before threading it into the Air Inlet (20). Connect the 3/8" ID air source hose to the Spray Gun.

12. Set the air pressure on your compressor to 60 PSI. Do not exceed the maximum operating air pressure of 115 PSI.

13. Check the air connections for leaks.

PREPARATION

Note: Proper paint/material mixture helps to ensure less problems. Be sure to follow the manufacturer's directions.

General tips for Preparation:

1. Mix and thin the paint/materials thoroughly according to the manufacturer's directions.
2. Carefully strain the paint/material through a paint strainer or piece of cheese cloth.
3. Swing the Cup Locking Lever (32) out of the locked position to remove the Cup (31) from the Unit. Fill the Cup to approximately 3/4 full. Place the Cup back in the Cup Mounting Yoke (33), rotate the Cup to lock it onto the yoke, and swing the Cup Locking Lever (32) to the locked position.
4. Start the air compressor.
5. To adjust the spray pattern, set up a piece of scrap material to practice on. While practicing on the scrap material, check to see that the liquid you are spraying has the appropriate consistency. If it appears too thick, add a very small amount of thinner or water (not included). **BE CAREFUL** when thinning. Proceed slowly, adding very minimal amounts. **NEVER** exceed the paint manufacturer's thinning recommendations.

Fan Direction

To change the direction of the fan, loosen the Lock Ring (2) and turn the Air Cap (1) 90°. After the adjustment, tighten the Lock Ring (2) by hand. (**See FIG.** 3 below.)

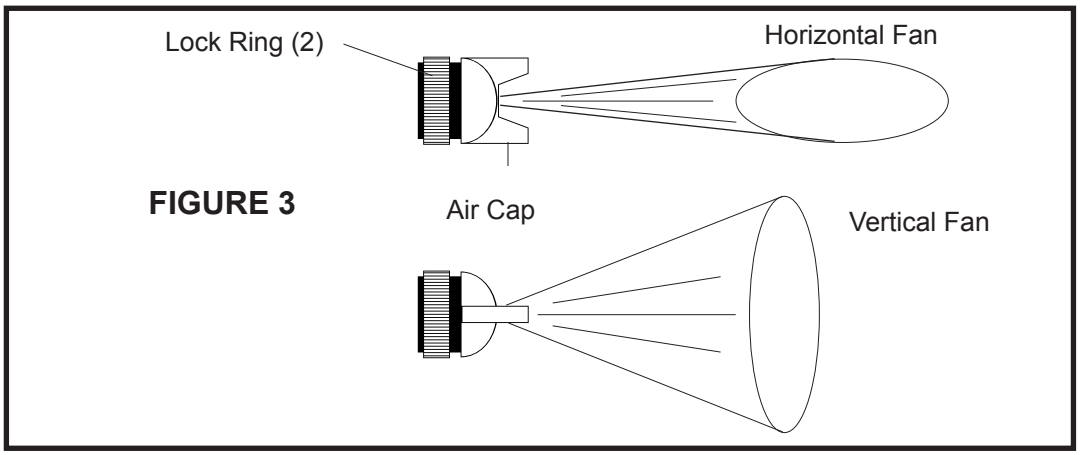

FIGURE 3

Fig. 3

Pattern Adjustment

Warning!! Never exceed the Maximum Inlet PSI of 115 PSI.

1. If you need to reduce the air pressure for specific areas, adjust the pressure regulator of the air compressor.
2. To set the pattern size specific to the job, use the Pattern Control Knob (10) (**see FIG. 1)**. By turning it counterclockwise (all the way open), the pattern will flatten. Turn the Pattern Control Knob (10) clockwise for a round pattern. (See **FIG. 4** below.)

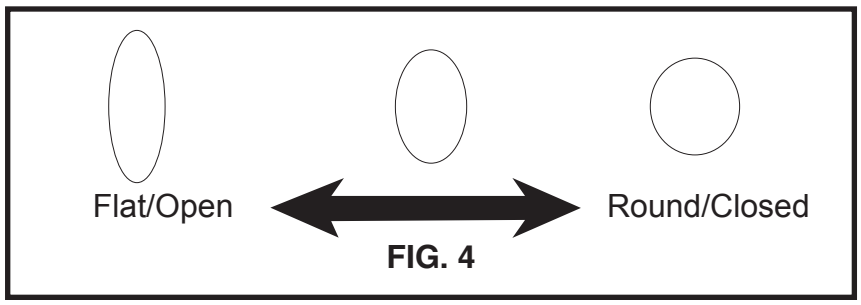

FIG. 4

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1. Turn the Needle Adjusting Screw (16) clockwise until it is fully closed. (**See FIG. 1**.)
2. After setting up a piece of scrap material, squeeze the Trigger (7) in short bursts while turning the Needle Adjusting Screw (16) counterclockwise and observe the spray patterns until you see the pattern you want. Also, look at the pattern for consistency. Too much air may cause the spray to come out too fine. Reduce the air pressure or allow more material to come out by opening the Needle Adjusting Screw (16). If the spray appears too thick (you see globs of paint), close down the Needle Adjusting Screw (16) slowly, checking the mixture after each adjustment. (**See FIG. 5** below.)

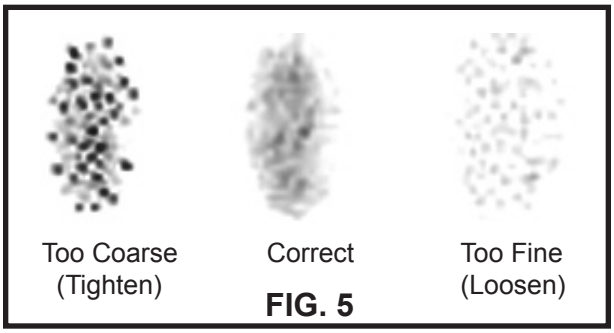


FIG. 5

USER-MAINTENANCE INSTRUCTIONS

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

⚠WARNING TO PREVENT SERIOUS INJURY FROM ACCIDENTAL OPERATION:
Turn off the tool, detach the air supply, safely discharge any residual air pressure in the tool, and release the throttle and/or turn the switch to its off position 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.

Cleaning, Maintenance, and Servicing

Solvent Selection

Always follow the paint manufacturer's recommendations for cleaning, solvent type, and disposing of used solvent. Run the water or solvent, depending on the type of paint used, under pressure for several minutes at least to clean out the inner channels and the spray orifice.

Latex Paints: Use warm, soapy water.

IMPORTANT: Do not use mineral spirits on latex paints or the mixture will congeal making it very difficult to remove.

Oil Based Paints: Use mineral spirits.

After each use:

1. Empty the paint Cup (31) and clean it with solvent, or water for latex paint.
2. Fill the paint Cup (31) with solvent and spray it through the Gun into a container, while shaking the gun. Once the paint Cup (31) is empty, repeat the process until the solvent comes out clean.
3. **Disconnect from the air source.** After disconnecting, be aware that air pressure may still remain in the Spray Gun. Point the Gun into the spent solvent container and squeeze the Trigger (7) again to make sure no air remains.
4. Remove the Air Cap (1) and soak it in solvent until it is clean. Use an old toothbrush and/or toothpicks to remove any material. **Do not use metal objects to clean the Air Cap (1) or you may damage the drilled passages**. Inspect the needle and make sure it is not bent. If it is bent, have it replaced by a certified service technician.

Warning!! Do not immerse the Spray Gun Body in solvent!

5. Use the appropriate solvent (depending on the material sprayed) to wipe down the Gun body.
6. Always lubricate the Spray Gun after cleaning. You may use a non-silicon oil or a light lubricant on all threaded connections prior to storing the unit.

7. **Disposal:** After cleaning your Spray Gun, properly dispose of your cleaning solutions according to the solution manufacturer's direction and local hazardous waste standards.

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

8. **Daily - Air Supply Maintenance:** Every day, perform maintenance on the air supply according to the manufacturers' instructions. Performing routine maintenance on the air supply will allow the tool to operate more safely and will also reduce wear on the tool.

9. **Quarterly (every 3 months) - Tool Disassembly, Cleaning, and Inspection:** Have the internal mechanism cleaned and inspected by a qualified technician.

TROUBLESHOOTING

Spray Pattern Diagnosis

The Patterns below resemble symptoms of spray pattern problems. Please refer to the accompanying possible problems if you are experiencing similar difficulties. The solution to each problem follows the problem in parentheses.

Problem 1:

1. The Pattern Control Knob (10) is partially closed. (Open Pattern Control Knob (10).)
2. The material is too thick. (Thin material according to the manufacturer's instructions.)
3. The air pressure is too low. (Increase air pressure within the Maximum PSI (115).

Problem 2:

1. High air pressure. (Reduce air pressure.)
2. Not enough fluid. (Increase fluid.)
3. Pattern Control Knob (10) open too much. (Partially close Pattern Control Knob (10).)

Problem 3:

1. Air Cap (1) plugged. (Clean the Air Cap (1).)
2. Air cap (1) loose or dirty seat. (Clean Air Cap and threads with a stiff bristle brush such as an old toothbrush, wipe, reinstall and tighten.)
3. Dried material on Fluid Nozzle (4). (Use a nonmetallic point to clean the Fluid Nozzle (1).

Problem 4:

1. Dirt on one side of the fluid nozzle. (Clean the fluid nozzle.)
2. Holes on one side of the Air Cap (1) are plugged. (Clean the Air Cap (1) with a nonmetallic point.) Some of the holes in the Air Cap (1) are very small. You may want to consider an ultrasonic cleaner for this job.

Troubleshooting (continued)

Problem	Cause	Solution
Sputtering Spray	1. Low material level 2. Cup tipped too far 3. Clogged Air Vent 4. Loose fluid inlet connections 5. Dry or loose fluid needle Packing Nut 6. Loose/damaged fluid tip/seat	1. Refill 2. Hold upright 3. Clean vent hole 4. Tighten 5. Lubricate and/or tighten 6. Adjust or replace
Will Not Spray	1. No pressure at gun 2. Fluid control not open enough 3. Fluid too thick	1. Check air hoses 2. Open fluid control 3. Thin fluid or increase pressure (within Maximum range)
Overspray	1. Improper application speed 2. Improper distance from workpiece 3. Too much pressure	1. Move moderately and parallel 2. Adjust distance 3. Reduce air pressure
Fluid Tip Leakage	1. Dirty tip 2. Tight Packing Nut 3. Broken fluid needle spring 4. Worn or damaged tip	1. Clean 2. Loosen Packing Nut 3. Replace 4. Replace tip and/or needle
Air Leaking from Air Cap	1. Dirty air valve/seat 2. Sticking air valve 3. Damaged air valve spring 4. Worn/damaged air valve/seat 5. Bent valve stem	1. Clean 2. Lubricate 3. Replace 4. Replace 5. Replace
Fluid Leaking from Packing Nut	1. Packing Nut loose 2. Packing worn or dry	1. Tighten without restricting 2. Replace or lubricate (non-silicone)

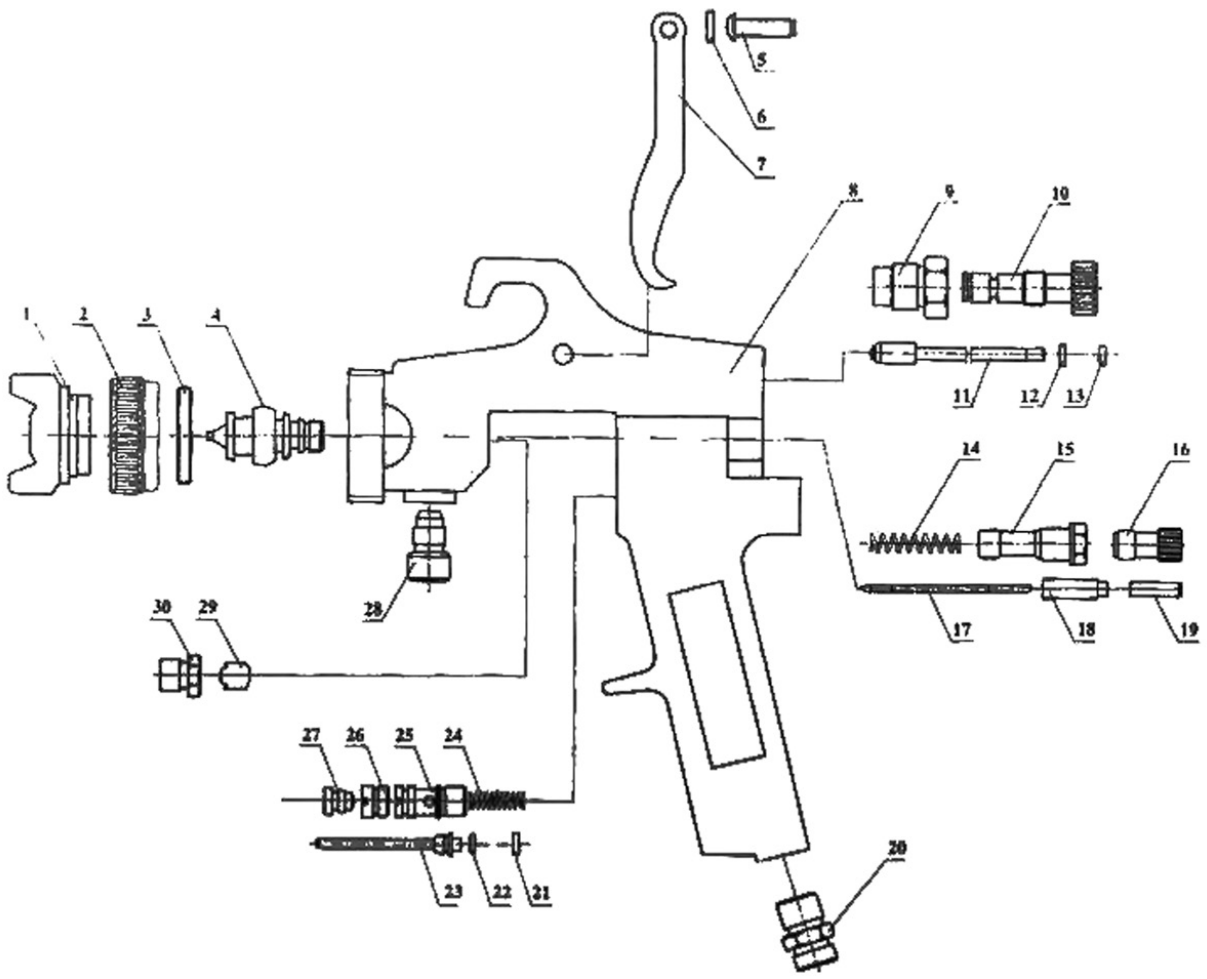
PLEASE READ THE FOLLOWING CAREFULLY

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

PARTS LIST

Part	Description	Qty
1	Air Cap	1
2	Lock Ring	1
3	Brass Ring	1
4	Fluid Nozzle	1
5	Trigger Bolt	1
6	Gasket	1
7	Trigger	1
8	Gun Body	1
9	Pattern Valve Seat	1
10	Pattern Control Knob	1
11	Pattern Needle	1
12	Gasket	1
13	O-Ring	1
14	Needle Spring	1
15	Needle Holder	1
16	Fluid Control Knob	1
17	Needle	1
18	Needle Screw	1
19	Needle Seat	1
20	Air Inlet Coupling	1
21	Air Valve Spacer	1
22	O-Ring	1
23	Air Valve	1
24	Air Spring	1
25	Air Valve Seat	1
26	Air Valve Cap	1
27	Air Valve Screw	1
28	Fluid Inlet Coupling	1
29	Needle Guide	1
30	Needle Packing Screw	1
31	Cup (See Fig.1)	1
32	Cup Locking Lever (See Fig.1)	1
33	Cup Mounting Yoke (See Fig.1)	

ASSEMBLY DIAGRAM



Record Product's Serial Number Here:_____

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

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

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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