

CENTRAL PNEUMATIC®

ABRASIVE HOPPER KIT

Model 37025

SET UP AND OPERATING INSTRUCTIONS



Distributed exclusively by Harbor Freight Tools®.

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

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

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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

To reduce the risks of electric shock, fire, and injury to persons, read all the instructions before using the tool.

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. **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. **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.
- d. **Do not overreach. Keep proper footing and balance at all times.** Proper footing and balance enables better control of the tool in unexpected situations.
- e.  **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.

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

- g.  **Always wear hearing protection when using the tool.** Prolonged exposure to high intensity noise is able to cause hearing loss.

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 trigger 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. **Maintain the tool with care.** Keep the tool clean and free of obstructions. A properly maintained

tool reduces the risk of accidents and is easier to control.

- g. **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.
- h. **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.** Service or maintenance performed by unqualified personnel could result in a risk of injury.
- b. **When servicing a tool, use only identical replacement parts. Use only authorized parts.**

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.



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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.

Chart continued in next column.

Symbol Definitions

Symbol	Property or statement
	WARNING marking concerning Risk of Respiratory Injury. Wear NIOSH-approved dust mask/respirator.
	WARNING marking concerning Risk of Explosion.

Specific Safety Instructions

- 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:** 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.*)
- WARNING:** This product, when used for abrasive blasting and similar applications, produces chemicals known to the State of California to cause cancer and birth defects (or other reproductive harm). (California Health & Safety Code § 25249.5, *et seq.*)
- 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.

- Attach all accessories properly to the tool before connecting the air supply. A loose accessory may detach or break during operation.
- Obey the manual for the air compressor used to power this tool.
- Install an in-line shutoff valve to allow immediate control over the air supply in an emergency, even if a hose is ruptured.

Silicosis and Aluminum Oxide

Warnings

Warning: Abrasive blasting with sand containing crystalline silica can cause serious or fatal respiratory disease. Exposure to crystalline silica may cause silicosis (a serious lung disease), cancer and death. Exposure to aluminum oxide (a dust generated from material removing processes) can result in eye, skin and breathing irritation. Always use a NIOSH (National Institute for Occupational Safety and Health) approved respirator and safety goggles. Avoid skin exposure. Proper ventilation in the work area is required. Read and understand the 10 recommended measures below to reduce crystalline silica exposures in the workplace and prevent silicosis and silicosis related deaths.

NIOSH recommends the following measures to reduce crystalline silica exposures in the workplace and prevent silicosis and silicosis-related deaths:

- Prohibit the use of silica sand (or other substances containing more than 1% crystalline silica) as an abrasive blasting material and

substitute with less hazardous materials.

2. Conduct air monitoring to measure worker exposures.
3. Use containment methods such as blast-cleaning machines and cabinets to control the hazard and protect adjacent workers from exposure.
4. Practice good personal hygiene to avoid unnecessary exposure to silica dust.
5. Wear washable or disposable protective clothes at the work site. Shower and change into clean clothes before leaving the work site to prevent contamination of cars, homes and other work areas.
6. Use respiratory protection when source controls cannot keep silica exposures below the NIOSH REL.
7. Provide periodic medical examinations for all workers who may be exposed to crystalline silica.
8. Post signs to warn workers about the hazard and to inform them about required protective equipment.
9. Provide workers with training that includes information about health effects, work practices and protective equipment for crystalline silica.
10. Report all cases of silicosis to State health departments and to OSHA or the Mine Safety and Health Administration (MSHA).

Vibration Precautions

This tool vibrates during use. Repeated or long-term exposure to vibration may cause temporary or

permanent physical injury, particularly to the hands, arms and shoulders. To reduce the risk of vibration-related injury:

1. Anyone using vibrating tools regularly or for an extended period should first be examined by a doctor and then have regular medical check-ups to ensure medical problems are not being caused or worsened from use. Pregnant women or people who have impaired blood circulation to the hand, past hand injuries, nervous system disorders, diabetes, or Raynaud's Disease should not use this tool. If you feel any symptoms related to vibration (such as tingling, numbness, and white or blue fingers), seek medical advice as soon as possible.
2. Do not smoke during use. Nicotine reduces the blood supply to the hands and fingers, increasing the risk of vibration-related injury.
3. Wear suitable gloves to reduce the vibration effects on the user.
4. Use tools with the lowest vibration when there is a choice.
5. Include vibration-free periods each day of work.
6. Grip tool as lightly as possible (while still keeping safe control of it). Let the tool do the work.
7. To reduce vibration, maintain tool as explained in this manual. If abnormal vibration occurs, stop immediately.



**SAVE THESE
INSTRUCTIONS.**

FUNCTIONAL DESCRIPTION

Specifications

Compressor Requirements	1 HP or larger compressor
Air Inlet	1/4" NPT
Average Air Consumption	2 CFM @ 50 PSI
Maximum Air Pressure	120 PSI
Hopper Capacity	50 lbs.
Abrasive Supply Hose	15 ft.
Accessories	One 3mm Hex Key

Components and Controls

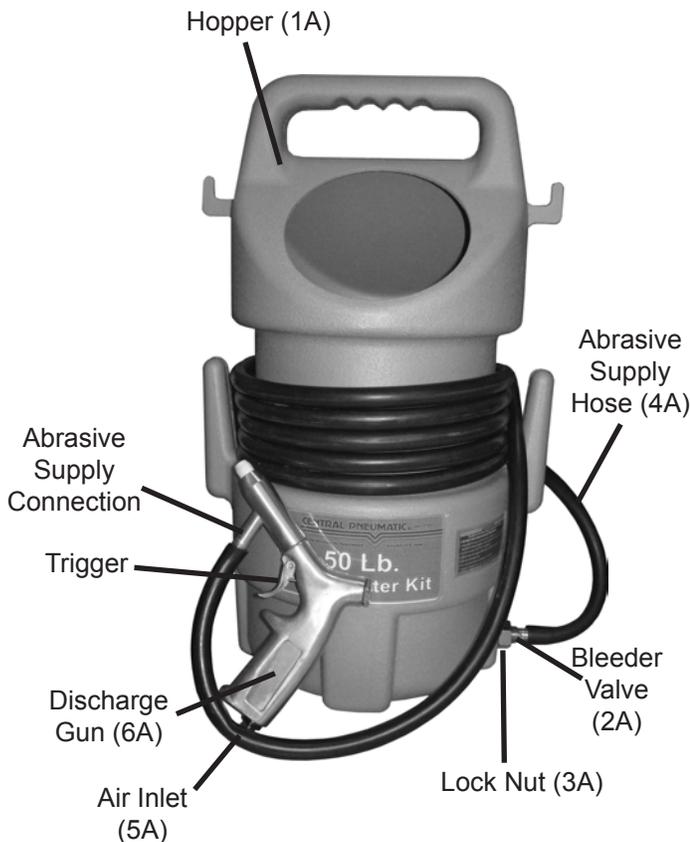


Figure 1

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, make sure that the item is intact and undamaged. If any parts are missing or broken, please call Harbor Freight Tools at 1-800-444-3353 as soon as possible.

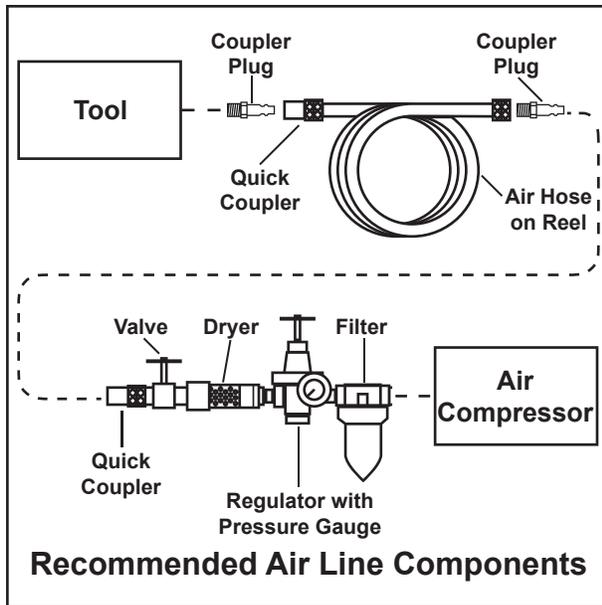
- This air tool may be shipped with a protective plug covering the air inlet. Remove this plug before set up.

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.



1. Incorporate a filter, regulator with pressure gauge, dryer, in-line shutoff valve, and quick coupler for best service, as shown in the diagram above. **An in-line shutoff ball valve is an important safety device because it controls the air supply even if the air hose is ruptured. The shutoff valve should be a ball valve because it can be closed quickly.**

Note: An oiler system should not be used with this tool. The oil will mix with the material being propelled, causing poor gun plugging.

2. Attach an air hose to the compressor's air outlet. Connect air hose to the air inlet of the tool. Other components, such as a coupler plug 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. Release the Trigger to turn the tool off.
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 of 120 PSI at any time. Adjust the pressure gradually, while checking the air output gauge to set the right pressure range.
8. Inspect the air connections for leaks. Repair any leaks found.
9. If the tool will not be used at this time, turn off the compressor 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 into the hopper after disconnecting to ensure that the tool is disconnected and unpowered.

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



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 trigger 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.

Assembly

1. Insert the Bleeder Valve (2A) from inside the Hopper (1A) through the hole at the bottom of the Hopper.
2. From the outside of the Hopper, thread the Lock Nut (3A) onto the Bleeder Valve.
3. Push one end of the Abrasive Supply Hose (4A) onto the end of the Bleeder Valve, making sure that the Hose is not covering the air flow hole on the Bleeder Valve.
4. Slide the other end of the Abrasive Supply Hose onto the Abrasive Supply Hose Connection on the Discharge Gun (6A).
5. Attach the Air Inlet (5A) to the bottom of the Discharge Gun handle.
6. Inspect all the fittings to ensure that they are secure.

Work Piece 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 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. There must not be hazardous objects (such as utility lines or foreign objects) nearby that will present a hazard while working.

GENERAL OPERATING INSTRUCTIONS

WARNING: Wear ANSI-approved safety goggles, gloves, a NIOSH-approved protective face mask, and Hard Hat when using the Spot Blaster.

1. Set the compressor's pressure regulator to 50-120 PSI. Do not set the compressor's outlet regulator over 120 PSI.
2. Connect air supply to the air inlet of the gun. If leaking is detected, disconnect the air hose and repair before use.
3. Fill the Hopper (1A) with an appropriate abrasive such as steel grit or glass bead abrasive, checking to ensure that the abrasives are dry and clean.
4. Place the material to be sandblasted in an area suitable for this kind of work.

CAUTION: The blasting medium will accumulate and cover items near the blasting area, possibly damaging finishes or contaminating moving parts. Place the compressor in another room to prevent it from being damaged.

5. Holding the Discharge Gun so that it is pointing away from you, turn on the air compressor.
6. Squeeze the trigger on the Discharge Gun (6A) to begin operation. Release it to stop.

Use even passes of the Discharge Gun to remove rust, paint, etc. Do not keep the Gun point in one location

continuously to prevent damage to the item.

Note: Use caution when sandblasting unfamiliar material. Test the tool on a small area before proceeding. This will ensure you will not damage or pit the material you wish to sandblast.

WARNING: Do not point the gun towards your face, any part of yourself, or at any other person or animal.

7. 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 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 and airflow, then a larger tool may be required.

8. To prevent accidents, release the Trigger, detach the air supply, safely discharge any residual air pressure in the airline, and release the trigger after use. Clean external surfaces of the tool with a clean, dry cloth. Then store the tool indoors out of children's reach.

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 trigger 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 Lubrication

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

Changing the Blasting Medium

It is not necessary to remove the blasting medium from the Hopper (1A) after every use. However, clean out the Hopper when a different blasting medium is to be used. To clean the Hopper:

1. Pour excess blasting medium out of the Hopper (1A) and into a container such as a five gallon bucket (sold separately).
2. Disconnect the Abrasive Supply Hose (4A) from the Bleeder Valve (2A) and the Discharge Gun (6A).
3. To clear medium from the hose, use your compressor to blow air through the Abrasive Supply Hose into the container holding the excess blasting medium.

CAUTION: Wear protective clothing, a NIOSH-approved face mask, and ANSI-approved goggles when performing this operation.

4. When the Hopper is clean, reassemble the Abrasive Supply Hose and Gun and fill the Hopper with new blasting medium.

Seals

Sandblasting is a damaging operation. In time, the internal parts of the Discharge Gun (6A) will become worn. When performance of the Discharge Gun decreases, take it to a qualified service technician for repair. There are no serviceable parts for this tool.

Daily - Air Supply Maintenance:

1. Every day, perform maintenance on the air supply according to the component manufacturers' instructions. The moisture filter must be regularly drained. Performing routine maintenance on the air supply will allow the tool to operate more safely and will also reduce wear on the tool.

2. Prior to storage, with a soft brush remove any contamination build-up beneath the Trigger and Valve Stem (14).
3. As supplied air is dry, internal moving components of the gun require regular lubrication. Using the

exploded diagram, dismantle the gun, clean interior using compressed air, add a few drops of air tool oil to all moving parts and re-assemble. Replace any damaged components.

Troubleshooting

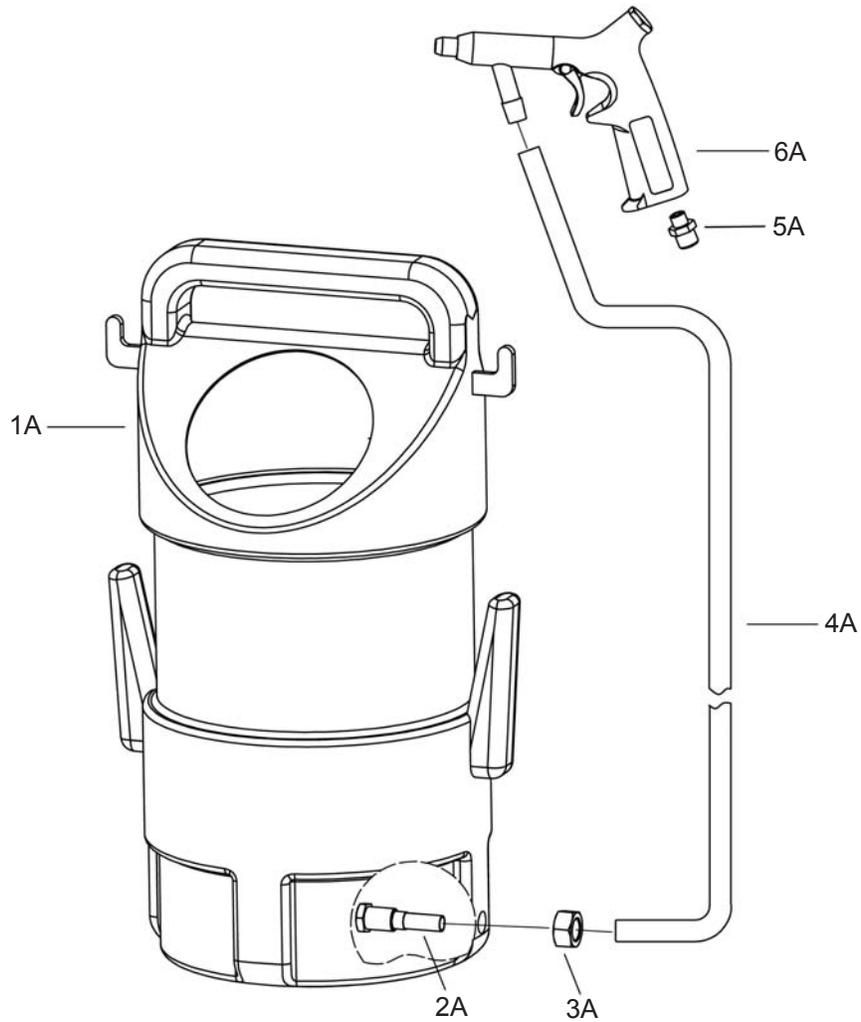
Problem	Possible Causes	Likely Solutions
Decreased output.	<ol style="list-style-type: none"> 1. Not enough air pressure and/or air flow. 2. Obstructed trigger. 3. Blocked air inlet screen (if equipped). 4. Air leaking from housing. 5. Mechanism contaminated. 	<ol style="list-style-type: none"> 1. Check for loose connections and make sure that air supply is providing enough air flow (CFM) at required pressure (PSI) to the tool's air inlet. Do not exceed maximum air pressure. 2. Clean around trigger to ensure free movement. 3. Clean air inlet screen of buildup. 4. Make sure housing components are properly assembled and tight. 5. Clean and lubricate mechanism. Install in-line filter in air supply as stated in Initial Set Up: Air Supply.
Housing heats during use.	<ol style="list-style-type: none"> 1. Worn parts. 	<ol style="list-style-type: none"> 1. Have qualified technician inspect internal mechanism and replace parts as needed.
Severe air leakage. (Slight air leakage is normal, especially on older tools.)	<ol style="list-style-type: none"> 1. Cross-threaded housing components. 2. Loose housing. 3. Damaged valve or housing. 4. Dirty, worn or damaged valve stem. 	<ol style="list-style-type: none"> 1. Check for incorrect alignment and uneven gaps. If cross-threaded, disassemble and replace damaged parts before use. 2. Tighten housing assembly. If housing cannot tighten properly, internal parts may be misaligned. 3. Replace damaged components. 4. Clean or replace valve stem, O-ring, washer, and gasket.



Follow all safety precautions whenever diagnosing or servicing the tool. Disconnect air supply before service.

PARTS LIST & ASSEMBLY DIAGRAM

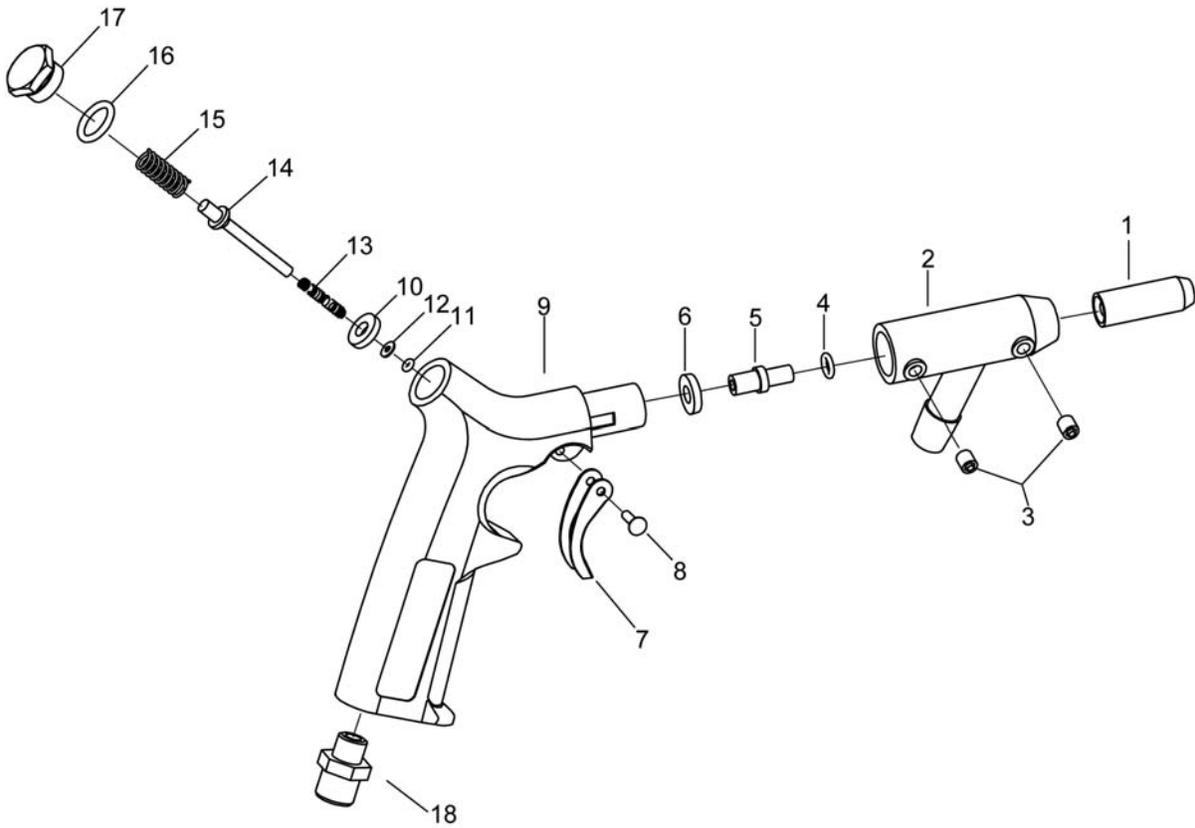
Part	Description	Qty	Part	Description	Qty
1A	Hopper	1	4A	Abrasive Supply Hose	1
2A	Bleeder Valve	1	5A	Air Inlet	1
3A	Lock Nut	1	6A	Discharge Gun	1



DISCHARGE GUN PARTS LIST & PARTS DIAGRAM

Part	Description	Qty
1	Ceramic Nozzle	1
2	Nozzle Housing	1
3	Bleeder Valve M6 x 1.00	2
4	O-Ring	1
5	Jet Nozzle	1
6	Gasket	1
7	Trigger	1
8	Pin	1
9	Gun Body	1

Part	Description	Qty
10	Gasket	1
11	O-Ring	1
12	Washer	1
13	Spring	1
14	Valve Stem	1
15	Spring	1
16	O-Ring	1
17	Nut	1
18	Air Inlet Adapter	1



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.

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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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.