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

SAVE THIS MANUAL.
# CONTENTS

SAVING THIS MANUAL .................. 3  
SAFETY ALERT SYMBOL AND SIGNAL WORDS .................. 3  

IMPORTANT SAFETY INSTRUCTIONS .................. 3  
GENERAL ..................................... 3  
WORK AREA ..................................... 3  
PERSONAL SAFETY .................................. 4  
TOOL USE AND CARE .................................. 4  
SERVICE ......................................... 5  
AIR SOURCE ....................................... 5  

SYMBOLS AND SPECIFIC SAFETY INSTRUCTIONS ........... 5  
SYMBOL DEFINITIONS ................................ 5  
SPECIFIC SAFETY INSTRUCTIONS 6  

FUNCTIONAL DESCRIPTION ...... 7  
SPECIFICATIONS .................................. 7  
COMPONENTS AND CONTROLS .... 7  

INITIAL TOOL SET UP/ ASSEMBLY .................. 7  
UNPACKING ..................................... 7  
AIR SUPPLY ....................................... 8  

OPERATING INSTRUCTIONS ..... 9  
TOOL SET UP ..................................... 9  
WORK PIECE AND WORK AREA SET UP .................................. 9  
INSTALLING THE COLLECTION BAG .................. 10  
GENERAL OPERATING INSTRUCTIONS .................. 10  

USER-MAINTENANCE INSTRUCTIONS .................. 11  

CLEANING AND MAINTENANCE ... 11  
TROUBLESHOOTING .................. 12  

PARTS LIST ................................. 13  
ASSEMBLY DIAGRAM .......................... 14  
LIMITED 90 DAY WARRANTY .... 15
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 Warranty statement (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 indicates a hazardous situation which, if not avoided, will result in death or serious injury.

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

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

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

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 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.
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. **Remove adjusting keys and wrenches before turning the tool on.** A wrench or a key that is left attached to a rotating part of the tool increases the risk of personal injury.

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

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

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

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

i. **Risk of Electric Shock.** This tool is not provided with an insulated gripping surface. Contact with a "live" wire will also make exposed metal parts of the tool "live" and shock the operator.

j. **Avoid body contact with grounded surfaces such as pipes, radiators, ranges and refrigerators.** There is an increased risk of electric shock if your body is grounded.

**Tool use and care**

a. **Do not force the tool.** Use the correct tool for the application. The correct tool will do the job better and safer at the rate for which the tool is designed.

b. **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.

c. **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.

d. **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.

e. **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.

f. **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 90 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**

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Property or statement</th>
</tr>
</thead>
<tbody>
<tr>
<td>( n_0 )</td>
<td>No-load speed</td>
</tr>
<tr>
<td>( \text{rev./min} )</td>
<td>Revolutions or reciprocation per minute</td>
</tr>
<tr>
<td>PSI</td>
<td>Pounds per square inch of pressure</td>
</tr>
<tr>
<td>ft-lb</td>
<td>Foot-pounds of torque</td>
</tr>
<tr>
<td>BPM</td>
<td>Blows per minute</td>
</tr>
<tr>
<td>CFM</td>
<td>Cubic Feet per Minute flow</td>
</tr>
<tr>
<td>SCFM</td>
<td>Cubic Feet per Minute flow at standard conditions</td>
</tr>
<tr>
<td>NPT</td>
<td>National pipe thread, tapered</td>
</tr>
<tr>
<td>NPS</td>
<td>National pipe thread, straight</td>
</tr>
</tbody>
</table>

Chart continued in next column.
### Symbol Definitions

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Property or statement</th>
</tr>
</thead>
<tbody>
<tr>
<td>![Symbol]</td>
<td>WARNING marking concerning Risk of Explosion.</td>
</tr>
</tbody>
</table>

### 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.

**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 chemicals are:

- Lead from lead-based paints
- Crystalline silica from bricks and cement or 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. (California Health & Safety Code § 25249.5, *et seq.*)

2. 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.

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

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

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

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 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 suf-
If sufficient airflow is not maintained, 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 release the throttle and/or turn the switch to its off position after use. Clean external surfaces of the tool with clean, dry cloth, and apply a thin coat of tool oil. Then store the tool indoors out of children’s reach.

**SAVE THESE INSTRUCTIONS.**

**FUNCTIONAL DESCRIPTION**

**Specifications**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Air Consumption</td>
<td>5 SCFM @90 PSI</td>
</tr>
<tr>
<td>Maximum Air Pressure</td>
<td>90 PSI</td>
</tr>
<tr>
<td>Air Inlet</td>
<td>1/4” -18 NPT (Female)</td>
</tr>
</tbody>
</table>

**INTERNAL AIR FLOW**

Suction created by high-pressure air rushing out back of gun – dust & chips drawn in

Dust & chips drawn in go to bag through hose.

Release high-pressure air

Fig. 1

**Components and Controls**

- Button Trigger (9)
- Extension Nozzle (8)
- Air Inlet Coupling (10)
- Output Port

**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 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.

1. Incorporate a shut-off valve, regulator with pressure gauge, and filter for best service, as shown (See Fig. 2.)

**Note:** An in-line shutoff valve is an important safety device; its used for quick air shut off in case the air hose ruptures.

2. Connect the air source (compressor) hose to the gun’s Air Inlet Coupling (10). (See Fig. 3.)

3. Due to the high probability of fine dust in the air, it is imperative that good fresh-air circulation be in operation.

4. Attach an air hose to the compressor’s air outlet. Connect the air hose to the Air Inlet Coupling (10) of the tool (See Fig. 3.). Other components, such as a connector and quick coupler, will make operation more efficient, but are not mandatory.

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

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

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 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 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 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**

**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.

1. The only adjustment to be made with this tool would be to adjust the PSI level at the air source (compressor).

**Work Piece and Work Area Set Up**

1. 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.

2. Slip the flexible end of the Flexible Hose (6) over the outlet port at the back of the gun. (See Figs. 4, 5.)
Installing the Collection Bag

3. The Collection Bag (7) goes on the far end of the Flexible Hose (6).

4. The Collection Bag end of the Flexible Hose has a hard plastic fitting to hold the Collection Bag. The hook is for hanging the collection bag end.

5. The open end of the Collection Bag fits over the hard plastic fitting, and like the flexible end of the hose, is secured in place with a Screw Clamp (4). (See Fig. 6.)

General Operating Instructions

1. With the Output Hose and Collection Bag and compressor hose connected, put the white plastic nozzle near the material to be vacuumed.

2. Push the Button Trigger (9) releasing air from the air source.

3. Rushing air enters the gun chamber through multiple holes in the chamber walls traveling at high speed backwards towards the Collection Bag.

4. A vacuum effect is created at the front nozzle and dust and other particles are drawn in through the nozzle, to the outlet port, through the Flexible Hose and to the Collection Bag.

5. To clean out bag, loosen the Screw Clamp and remove the bag from the end of the Flexible Hose.

   a. Hold the bag, open end pointing into a trash can or dust bin, and shake the upper portion of the bag.
b. Continue until the bag is clear of dust and particles.

---

### 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 and Maintenance

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

1. **Clean out Collection Bag (7) after every use.** (See “General Operating Instructions” Step 5.) A clean bag allows air to move freely with least amount of strain on air source.

2. **Daily - Air Supply Maintenance:**

   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.

3. **Quarterly (every 3 months) - Tool Disassembly, Cleaning, and Inspection:**

   Clean out fine mesh inlet screen found inside of the Air Inlet Coupling (See Fig. 3.) Check Flexible Hose for splits or tears. Check Collection Bag for worn spots or rips. Check Collection Bag (see Fig. 6) for loose seams and cut or frayed threads.
# Troubleshooting

<table>
<thead>
<tr>
<th>Problem</th>
<th>Possible Causes</th>
<th>Likely Solutions</th>
</tr>
</thead>
</table>
| Decreased output. | 1. Not enough air pressure and/or air flow.  
2. Obstructed trigger.  
3. Low air flow entering the gun.  
4. Air leaking from loosely assembled components.  
5. Mechanism contaminated. | 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 is properly assembled and tight.  
5. Have qualified technician clean and lubricate mechanism. Install in-line filter in air supply as stated in Initial Set Up: Air Supply. |
| Severe air leakage.  (Slight air leakage is normal, especially on older tools.) | 1. Cross-threaded housing components.  
2. Damaged valve or housing.  
3. Dirty, worn or damaged valve. | 1. Check for incorrect alignment and uneven gaps. If cross-threaded, disassemble and replace damaged parts before use.  
2. Replace damaged components.  
3. Clean or replace valve assembly. |

⚠️ **Follow all safety precautions whenever diagnosing or servicing the tool. Disconnect air supply before service.**
PLEASE READ THE FOLLOWING CAREFULLY

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

## PARTS LIST

<table>
<thead>
<tr>
<th>Part</th>
<th>Description</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Main Body</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>O-Ring</td>
<td>2</td>
</tr>
<tr>
<td>3</td>
<td>Valve</td>
<td>1</td>
</tr>
<tr>
<td>4</td>
<td>Screw Clamp</td>
<td>2</td>
</tr>
<tr>
<td>5</td>
<td>Output Port</td>
<td>1</td>
</tr>
<tr>
<td>6</td>
<td>Flexible Hose</td>
<td>1</td>
</tr>
<tr>
<td>7</td>
<td>Collection Bag</td>
<td>1</td>
</tr>
<tr>
<td>8</td>
<td>Extension Nozzle</td>
<td>1</td>
</tr>
<tr>
<td>9</td>
<td>Button Trigger</td>
<td>1</td>
</tr>
<tr>
<td>10</td>
<td>Air Inlet Coupling</td>
<td>1</td>
</tr>
</tbody>
</table>
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.

3491 Mission Oaks Blvd. • PO Box 6009 • Camarillo, CA 93011 • (800) 444-3353

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.

SKU 66282 For technical questions, please call 1-800-444-3353. Page 15