

# Owner's Manual & Safety Instructions

**Save This Manual** Keep this manual for the safety warnings and precautions, assembly, operating, inspection, maintenance and cleaning procedures. Write the product's serial number in the back of the manual near the assembly diagram (or month and year of purchase if product has no number). Keep this manual and the receipt in a safe and dry place for future reference.

21f



## 12 GPM AIR OPERATED BARREL PUMP



Visit our website at: <http://www.harborfreight.com>  
Email our technical support at: [productsupport@harborfreight.com](mailto:productsupport@harborfreight.com)

93755

When unpacking, make sure that the product is intact and undamaged. If any parts are missing or broken, please call 1-888-866-5797 as soon as possible.

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No portion of this manual or any artwork contained herein may be reproduced in any shape or form without the express written consent of Harbor Freight Tools. Diagrams within this manual may not be drawn proportionally. Due to continuing improvements, actual product may differ slightly from the product described herein. Tools required for assembly and service may not be included.






### **⚠ WARNING**

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

## Table of Contents

Safety ..... 2	Maintenance ..... 9
Specifications ..... 4	Parts List and Diagram ..... 11
Setup ..... 5	Warranty ..... 12
Operation..... 8	



WARNING SYMBOLS AND DEFINITIONS	
	This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.
	Indicates a hazardous situation which, if not avoided, will result in death or serious injury.
	Indicates a hazardous situation which, if not avoided, could result in death or serious injury.
	Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.
	Addresses practices not related to personal injury.

## IMPORTANT SAFETY INSTRUCTIONS

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

**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

1. **Keep the work area clean and well lighted.**  
Cluttered benches and dark areas increase the risks of electric shock, fire, and injury to persons.
3. **Keep bystanders, children, and visitors away while operating the tool.** Distractions are able to result in the loss of control of the tool.
2. **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.

# Personal Safety

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1. **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.
2. **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.
3. **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.
4. **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.
5. **Do not overreach. Keep proper footing and balance at all times.**  
Proper footing and balance enables better control of the tool in unexpected situations.
6.  **Use safety equipment.**  
A dust mask, non-skid safety shoes and a hard hat must be used for the applicable conditions.
7.  **Always wear eye protection.**  
Wear ANSI-approved safety goggles.
8.  **Always wear hearing protection when using the tool.**  
Prolonged exposure to high intensity noise is able to cause hearing loss.

# Tool Use and Care

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1. **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.
2. **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.
3. **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.
4. **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.
5. **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.
6. **Maintain the tool with care.** Keep a cutting tool sharp and clean. A properly maintained tool, with sharp cutting edges reduces the risk of binding and is easier to control.
7. **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.
8. **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

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1. **Tool service must be performed only by qualified repair personnel.**
2. **When servicing a tool, use only identical replacement parts. Use only authorized parts.**

## Air Source

-  **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.
- 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.

## 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.
- 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.
- Stay within air pressure capacity.** Never operate the Barrel Pump above 10 PSI.
- This Barrel Pump is designed for use only with nonflammable, noncorrosive liquids. This Pump is also not designed for fuel transfer.**
- Disconnect air hose and release any built-up air pressure.** Never service the Barrel Pump or disassemble with the air hose attached. Always release any built-up air even after disconnecting hose. Disconnect the Barrel Pump when not in use.
- WARNING! TO PREVENT SERIOUS INJURY:** The warnings, cautions, and instructions discussed in this instruction 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.
- Maintain product labels and nameplates. These carry important safety information. If unreadable or missing, contact Harbor Freight Tools for a replacement.



**SAVE THESE INSTRUCTIONS**

## Specifications

Pump Capacity	Approx. 12 GPM
Gauge Range	0 - 22 PSI
Suction Cup	44" L x 1-1/4" Diameter
Air Inlet	1/4" NPT(F)
Reel Outlet Size	1/4" NPT(F)
Hose Fittings	1/4" NPT(M)
Max Pressure	10 PSI

## Setup - Before Use:



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.

**Note:** 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 SERIOUS INJURY FROM EXPLOSION:**

Use only clean, dry, regulated, compressed air to power this tool.

Do not use oxygen, carbon dioxide, combustible gases, or any other bottled gas as a power source for this tool.

1. Incorporate a filter, regulator with pressure gauge, in-line shutoff valve, and quick coupler for best service, as shown on Figure A on page 6 and Figure B on page 7. **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.**
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 coupler plug and quick coupler, will make operation more efficient, but are not required.

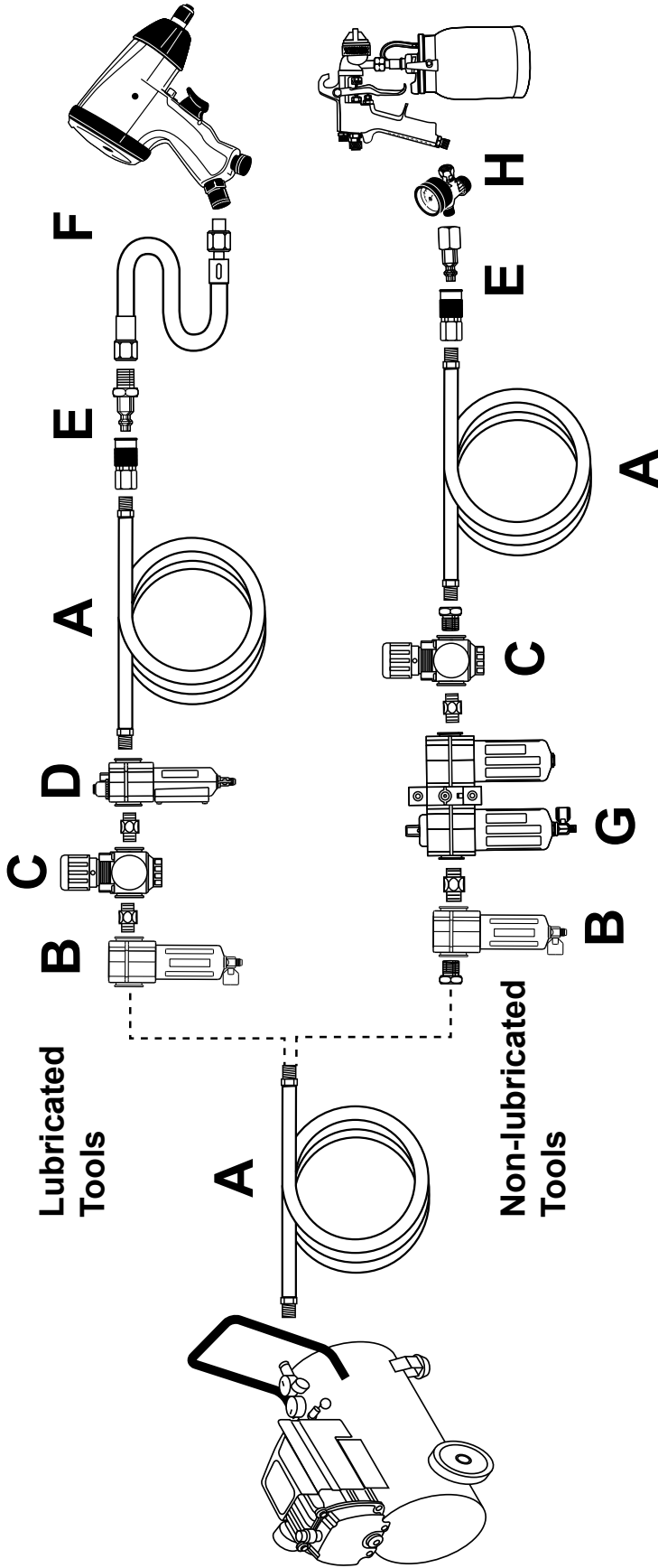
#### **WARNING! TO PREVENT SERIOUS INJURY FROM ACCIDENTAL OPERATION:**

**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.

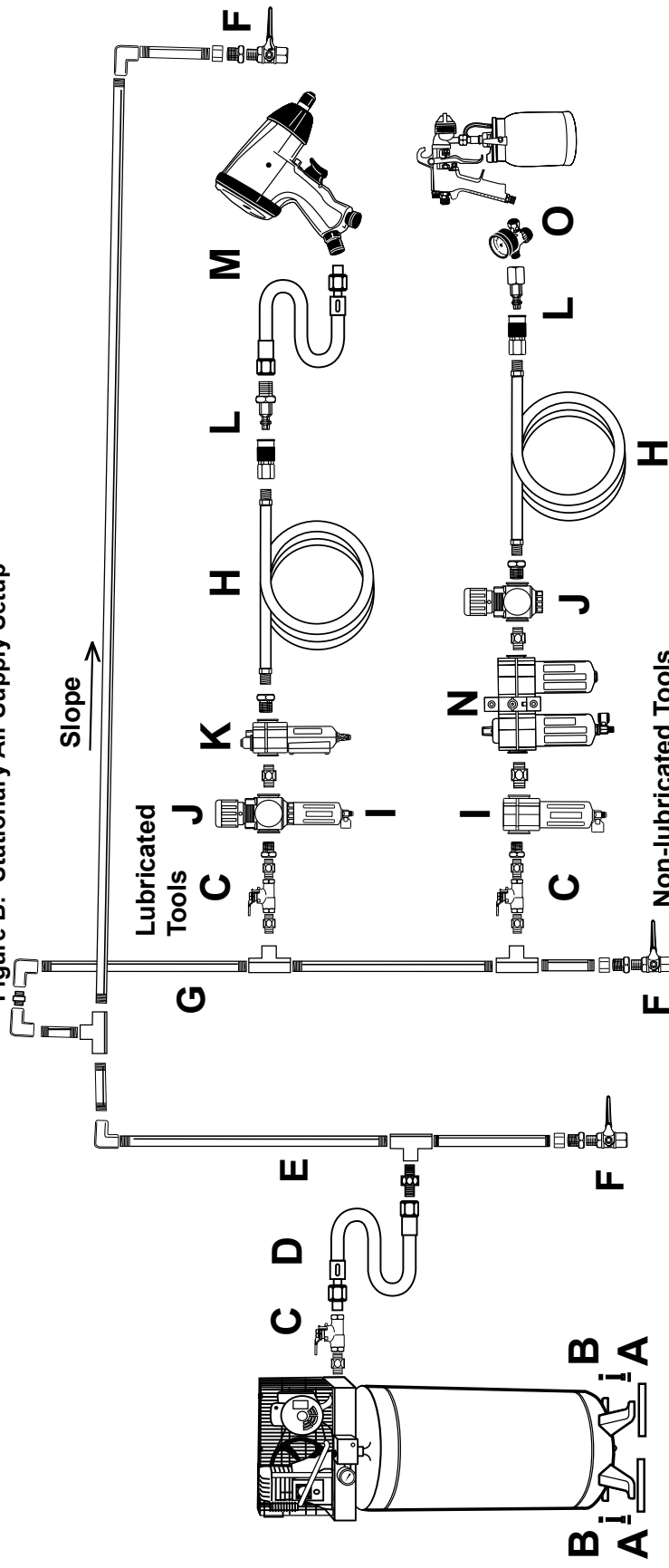
- Note:** Air flow, and therefore tool performance, can be hindered by undersized air supply components. The air hose must be long enough to reach the work area with enough extra length to allow free movement while working.
3. Turn the tool's throttle or switch to the off position; refer to Operation section for description of controls.
  4. Close the in-line shutoff valve between the compressor and the tool.
  5. Turn on the air compressor according to the manufacturer's directions and allow it to build up pressure until it cycles off.
  6. 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.
  7. Inspect the air connections for leaks. Repair any leaks found.
  8. 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.
  9. 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 powered.

Figure A: Portable Air Supply Setup



Description	Function
A Air Hose	Connects air to tool
B Filter	Prevents dirt and condensation from damaging tool or workpiece
C Regulator	Adjusts air pressure to tool
D Lubricator (optional)	For air tool lubrication
E Coupler and Plug	Provides quick connection and release
F Leader Hose (optional)	Increases coupler life
G Air Cleaner / Dryer (optional)	Prevents water vapor from damaging workpiece
H Air Adjusting Valve (optional)	For fine tuning airflow at tool

Figure B: Stationary Air Supply Setup



	Description	Function
A	Vibration Pads	For noise and vibration reduction
B	Anchor Bolts	Secures air compressor in place
C	Ball Valve	Isolates sections of system for maintenance
D	Isolation Hose	For vibration reduction
E	Main Air Line - 3/4" minimum recommended	Distributes air to branch lines
F	Ball Valve	To drain moisture from system
G	Branch Air Line - 1/2" minimum recommended	Brings air to point of use
H	Air Hose	Connects air to tool
I	Filter	Prevents dirt and condensation from damaging tool or workpiece
J	Regulator	Adjusts air pressure to tool
K	Lubricator (optional)	For air tool lubrication
L	Coupler and Plug	Provides quick connection and release
M	Leader Hose (optional)	Increases coupler life
N	Air Cleaner / Dryer (optional)	Prevents water vapor from damaging workpiece
O	Air Adjusting Valve (optional)	For fine tuning airflow at tool

# Assembly

1. Wrap about 4" of pipe sealer tape (not included) around the male threads located on the lower section of the Oil Tube (5). Then firmly screw an Oil Tube Coupler (7) onto the Oil Tube.
2. Wrap about 4" of pipe sealer tape around the male threads located on both the upper and lower sections of the Oil Tube (6). Then firmly screw one end of the Oil Tube onto the Oil Tube Coupler (7).
3. Firmly screw the remaining Oil Tube Coupler (7) onto the lower section of the Oil Tube (6).
4. Wrap about 4" of pipe sealer tape around the male threads located on both the upper and lower sections of the remaining Oil Tube (8). Then firmly screw one end of the Oil Tube into the Oil Tube Coupler (7).
5. Insert the Oil Filter (9) into the Inlet Plug (10). Then, firmly screw the Inlet Plug onto the lower section of the Oil Tube (8).

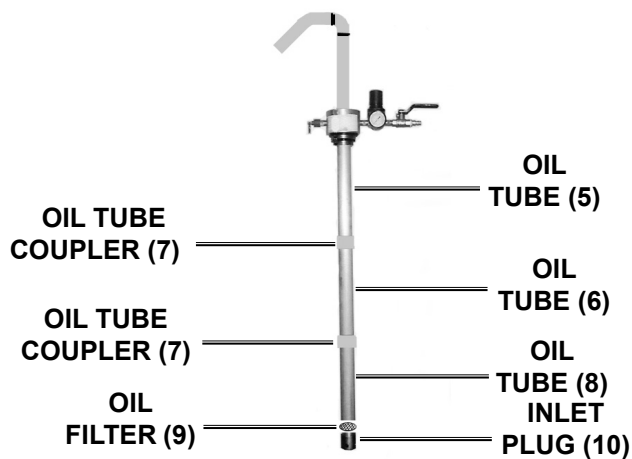


Figure C: Oil Tube Setup

6. Unscrew and remove the large bung from the barrel of liquid to be pumped.
7. Insert the lower section of the Barrel Pump through the bung of the barrel. Then firmly screw the Barrel Pump into the female threads of the bung.
8. To adjust the length of the tube in the barrel, grasp the regulator assembly and twist it up or down on the pipe.

**NOTE:** The male threads of the Barrel Pump are designed to fit a 1-1/2" or 2" diameter bung. (See Figure B.)

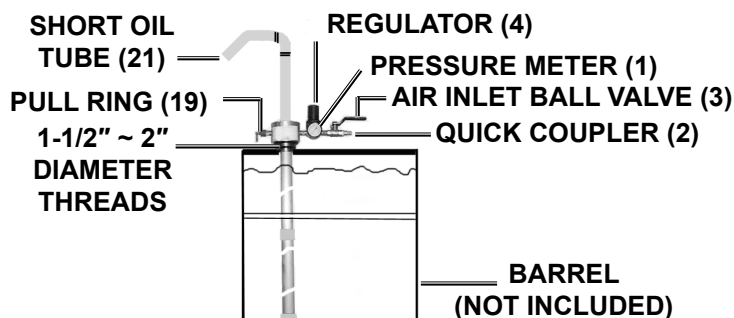


Figure D: Barrel Setup

## Operating Instructions

1. Make sure the Air Inlet Ball Valve (3) is in its closed position.
2. Connect one end of an air hose to the Quick Coupler (2) on the Barrel Pump.
3. Connect the other end of the air hose to an air compressor. See Figure C.
4. Turn on the air compressor, and set its regulator to 10 PSI. Do not exceed 10 PSI.
5. Set the Regulator (4) on the Barrel Pump to 10 PSI.
6. Turn the Air Inlet Ball Valve (3) to its open position to pump the liquid from the Short Oil Tube (21) of the Barrel Pump into a proper container.

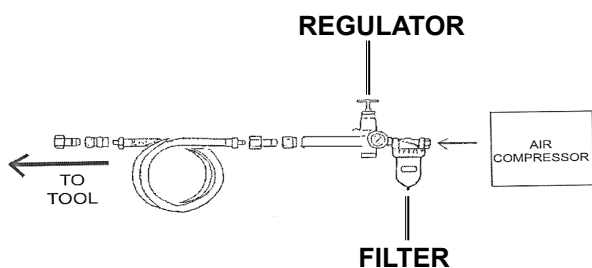


Figure E: Air Compressor Setup

**NOTE:** The rate of flow of the liquid being pumped depends on its fluid viscosity. To adjust the Regulator's (4) PSI and therefore alter the rate of flow of the liquid, lift up and twist the Knob on the Regulator. Then, push in on the Knob. To increase air pressure, turn the Knob clockwise. To decrease the air pressure, turn the Knob counterclockwise. Do not exceed 10 PSI.



7. To stop the flow of liquid being pumped from the barrel, turn the Air Inlet Ball Valve (3) to its closed position.
8. When finished using the Barrel Pump, make sure the Air Inlet Ball Valve (3) is in its closed position. Turn off the air compressor. Hold a proper container under the Short Oil Tube (21) and open the Air Inlet Ball Valve again to release any compressed air in the Barrel Pump. Turn the Regulator (4) to its lowest setting. Turn the Air Inlet Ball Valve to its closed position. Then, disconnect the air hose from the Barrel Pump.
9. If necessary, unscrew and remove the Barrel Pump from the barrel. Replace the bung on the barrel. Wipe the Barrel Pump dry. Then, store the Pump in a clean, dry, safe location out of reach of children.

## Maintenance



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 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.

1. **BEFORE EACH USE**, inspect the general condition of the tool. Check for:
  - loose hardware or housing,
  - misalignment or binding of moving parts,
  - cracked or broken parts, and
  - any other condition that may affect its safe operation.
2. **AFTER EACH USE**, clean the exterior of the Barrel Pump, wipe with a clean, damp cloth using a mild detergent or mild solvent. Do not immerse the tool in liquids.
3. To clean the interior of the Barrel Pump, immerse the lower section of the Pump into a container filled with a mild detergent or mild solvent. Connect the Barrel Pump to an air compressor and pump the detergent or solvent through the Pump and into a proper waste container until the detergent or solvent being pumped is itself clean. When finished, disconnect the air compressor, releasing all remaining pressure from the Pump. Remove the Pump from the container of detergent/solvent. Then, thoroughly dry the Pump.
4. **Note:** Always dispose of oil and other liquids according to local waste authority guidelines.
4. When storing, always store the Barrel Pump in a clean, dry, safe location out of reach of children.
5. **CAUTION!** All maintenance, service, and repairs not mentioned in this manual must only be performed by a qualified service technician.

# Troubleshooting

Problem	Possible Causes	Likely Solutions
Decreased output.	<ol style="list-style-type: none"> <li>1. Not enough air pressure and/or air flow.</li> <li>2. Obstructed valve.</li> <li>3. Air leaking from loose housing.</li> <li>4. Mechanism contaminated.</li> <li>5. Liquid is too viscous.</li> <li>6. Blockage in barrel or Pump.</li> </ol>	<ol style="list-style-type: none"> <li>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. <b>Do not exceed maximum air pressure.</b></li> <li>2. Clean around valve to ensure free movement.</li> <li>3. Make sure housing is properly assembled and tight.</li> <li>4. Have qualified technician clean and lubricate mechanism. Install in-line filter in air supply as stated in Setup: "Air Supply".</li> <li>5. Make sure Air Regulator of the Barrel Pump is adjusted to compensate for the viscosity of the liquid being pumped.</li> <li>6. Remove Barrel Pump from the barrel, and check the Pump for blockages in the system and remove any obstructions.</li> </ol>
Severe air leakage. (Slight air leakage is normal, especially on older tools.)	<ol style="list-style-type: none"> <li>1. Cross-threaded housing components.</li> <li>2. Loose housing.</li> <li>3. Damaged valve or housing.</li> <li>4. Dirty, worn or damaged valve.</li> </ol>	<ol style="list-style-type: none"> <li>1. Check for incorrect alignment and uneven gaps. If cross-threaded, disassemble and replace damaged parts before use.</li> <li>2. Tighten housing assembly. If housing cannot tighten properly, internal parts may be misaligned. Technician needs to disassemble tool, align parts and reassemble.</li> <li>3. Replace damaged components.</li> <li>4. Clean or replace valve assembly.</li> </ol>
Housing heats during use.	Worn parts.	Have qualified technician inspect internal mechanism and replace parts as needed.
 <p><b>Follow all safety precautions whenever diagnosing or servicing the tool. Disconnect air supply before service.</b></p>		

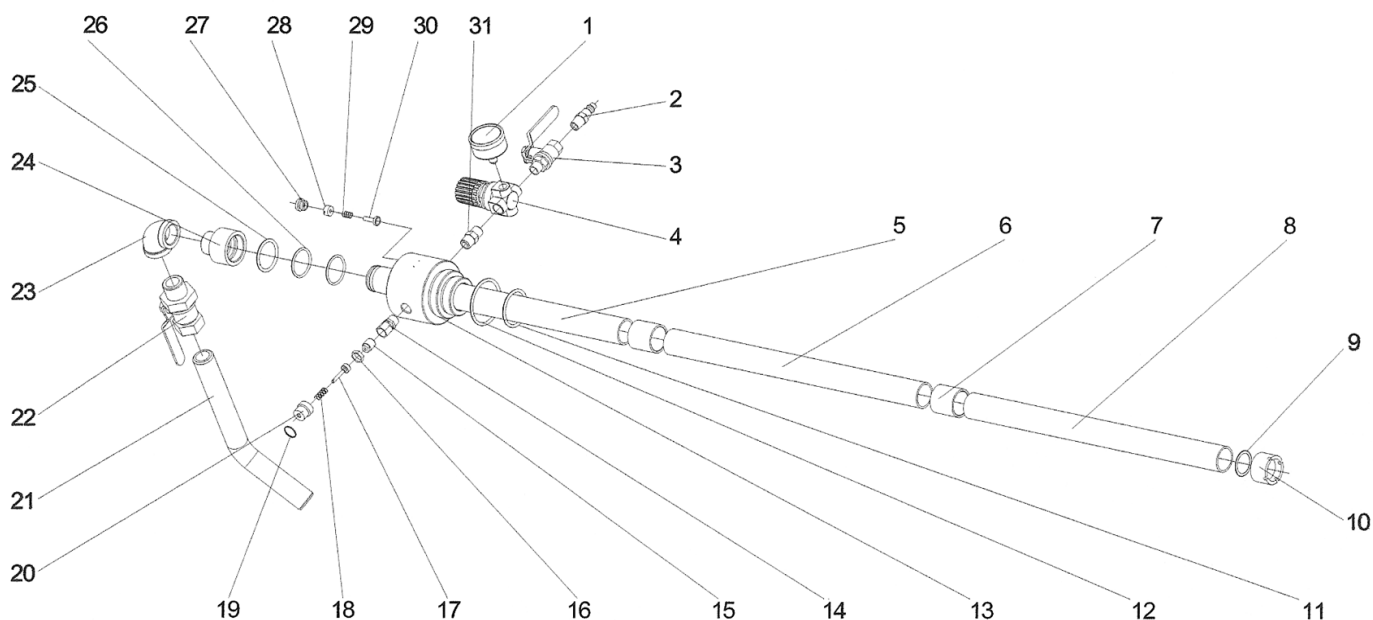
## PLEASE READ THE FOLLOWING CAREFULLY

THE MANUFACTURER AND/OR DISTRIBUTOR HAS PROVIDED THE PARTS LIST AND ASSEMBLY DIAGRAM IN THIS DOCUMENT 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 and Diagram

Part	Description	Qty
1	Pressure Meter	1
2	Quick Coupler	1
3	Air Inlet Ball Valve	1
4	Regulator	1
5	Oil Tube (3)	1
6	Oil Tube (2)	1
7	Oil Tube Coupler	2
8	Oil Tube (1)	1
9	Oil Filter	1
10	Inlet Plug	1
11	O-Ring	1
12	O-Ring	1
13	Housing	1
14	Valve Body	1
15	Control Bolt	1
16	Lock Nut	1

Part	Description	Qty
17	Valve Core	1
18	Spring	1
19	Pull Ring	1
20	Valve Cover	1
21	Short Oil Tube	1
22	Outlet Ball Valve	1
23	Bend Head	1
24	Swivel Coupler	1
25	O-Ring	1
26	O-Ring	2
27	Screw Cap	1
28	Lock Nut	1
29	Spring	1
30	Valve Core	1
31	Coupler	1



**Record Serial Number Here:**

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**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. Specify UPC 193175451507 when ordering parts.

## 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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