



Air-Operated Barrel Pump-12 GPM

Owner's Manual



WARNING: Read carefully and understand all ASSEMBLY AND OPERATION INSTRUCTIONS before operating. Failure to follow the safety rules and other basic safety precautions may result in serious personal injury.

Item #57738

READ & SAVE THESE INSTRUCTIONS

Thank you very much for choosing an Ironton™ product!

For future reference, please complete the owner's record below:

Serial Number/Lot Date Code: _____

Purchase Date: _____

Save the receipt, warranty, and this manual. It is important that you read the entire manual to become familiar with this product before you begin using it.

This pump is designed for certain applications only. Northern Tool and Equipment is not responsible for issues arising from modification or improper use of this product such as an application for which it was not designed. We strongly recommend that this product not be modified and/or used for any application other than that for which it was designed.

For technical questions, please call **1-800-222-5381**.

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Intended Use

The Ironton Air-Operated Barrel Pump transfers oil and other non-corrosive fluids — including waste and vegetable oil — at 12 GPM without hand cranking.

Technical Specifications

Property	Specification
Pump Capacity	Approx. 12 GPM (gallons per minute)
Bung Sizes	1 1/2in. & 2in. (both with O-rings)
Discharge Size	1 1/16in. I.D.
Suction Tube Size	1 1/4in. O.D.
Working Air Pressure	10 PSI
Air Inlet Size	1/4in. - 18 NPT with Quick Disconnect
Air Valve Type	1/4in. ball valve with swing lever
Air Regulator	1/4in. Mini (4 Port) with Gauge Push/Twist/Lock Adjust 0–22 PSI / 0–0.15MPa
Safety Air Valve	1/4in., 18 Brass with Pull Ring
Net Weight	11.2 lb.

Important Safety Information

⚠WARNING

- Read and understand all instructions. Failure to follow all instructions may result in serious injury or property damage.
- The warnings, cautions, and instructions in this manual cannot cover all possible conditions or situations that could occur. Exercise common sense and caution when using this tool. Always be aware of the environment and ensure that the tool is used in a safe and responsible manner.
- Do not allow persons to operate or assemble the product until they have read this manual and have developed a thorough understanding of how it works.
- Do not modify this product in any way. Unauthorized modification may impair the function and/or safety and could affect the life of the product. There are specific applications for which the product was designed.
- Use the right tool for the job. DO NOT attempt to force small equipment to do the work of larger industrial equipment. There are certain applications for which this equipment was designed. This product will be safer and do a better job at the capacity for which it was intended. DO NOT use this equipment for a purpose for which it was not intended.
- Industrial or commercial applications must follow OSHA requirements.

⚠WARNING

WORK AREA SAFETY

- Inspect the work area before each use. Keep work area clean, dry, free of clutter, and well-lit. Cluttered, wet, or dark work areas can result in injury. Using the product in confined work areas

may put you dangerously close to cutting tools and rotating parts.

- Do not use the product where there is a risk of causing a fire or an explosion; e.g., in the presence of flammable liquids, gases, or dust. The product can create sparks, which may ignite the flammable liquids, gases, or dust.
- Do not allow the product to come into contact with an electrical source. The tool is not insulated and contact will cause electrical shock.
- Keep children and bystanders away from the work area while operating the tool. Do not allow children to handle the product.
- Be aware of all power lines, electrical circuits, water pipes, and other mechanical hazards in your work area. Some of these hazards may be hidden from your view and may cause personal injury and/or property damage if contacted.

⚠WARNING

PERSONAL SAFETY

- Stay alert, watch what you are doing, and use common sense when operating the tool. Do not use the tool while you are tired or under the influence of drugs, alcohol, or medication. A moment of inattention while operating the tool may result in serious personal injury.
- Dress properly. Do not wear loose clothing, dangling objects, or jewelry. Keep your hair, clothing and gloves away from moving parts. Loose clothes, jewelry, or long hair can be caught in moving parts. Air vents on the tool often cover moving parts and should be avoided.
- Wear the proper personal protective equipment when necessary. Use ANSI Z87.1 compliant safety goggles (not safety glasses) with side shields, or when needed, a face shield. Use a dust mask in dusty work conditions. Also use non-skid safety shoes, hardhat, gloves, dust collection systems, and hearing protection when appropriate. This applies to all persons in the work area.
- Do not overreach. Keep proper footing and balance at all times.
- Remove keys or wrenches before connecting the tool to an air supply, power supply, or turning on the tool. A wrench or key that is left attached to a rotating part of the tool may cause personal injury.
- Secure the work with clamps or a vise instead of your hand when practical. This safety precaution allows for proper tool operation using both hands.

⚠CAUTION

PUMP USE AND CARE

- Do not force the pump. Products are safer and do a better job when used in the manner for which they are designed. Plan your work, and use the correct product for the job.
- Check for damaged parts before each use. Carefully check that the product will operate properly and perform its intended function. Replace damaged or worn parts immediately. Never operate the product with a damaged part.
- Do not use a pump with a malfunctioning switch. Any power tool that cannot be controlled with the power switch is dangerous and must be repaired by an authorized service representative before

using.

- Disconnect the power/air supply from the product and place the switch in the locked or off position before making any adjustments, changing accessories, or storing the tool. Such preventive safety measures reduce the risk of starting the tool accidentally.
- Store the pump when it is not in use. Store it in a dry, secure place out of the reach of children. Inspect the tool for good working condition prior to storage and before re-use.
- Use only accessories that are recommended by the manufacturer for use with your product. Accessories that may be suitable for one product may create a risk of injury when used with another tool. Never use an accessory that has a lower operating speed or operating pressure than the tool itself.
- Keep guards in place and in working order. Never operate the product without the guards in place.
- Do not leave the pump running unattended.

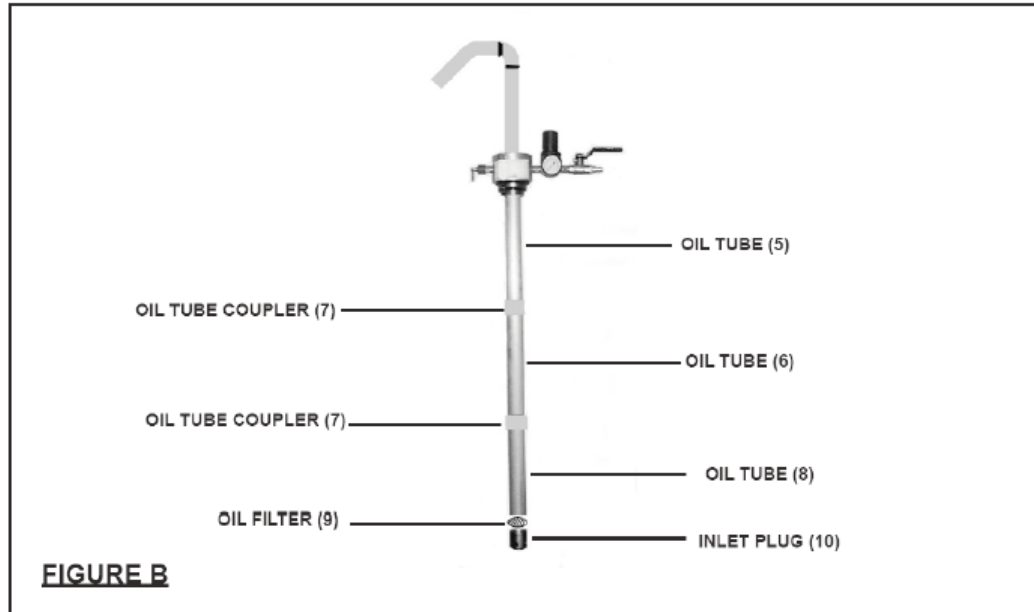
Specific Operation Warnings

⚠WARNING

- To prevent serious injury or property damage, read and understand owner's manual before operating.
- Wear ANSI Z87.1 compliant goggles and other protective gear while operating.
- Do not exceed the working air pressure of 10 PSI.
- Do not use with any liquid besides the intended oil. See owner's manual for intended oil.
- Disconnect air hose and relieve air pressure before servicing.
- Always dispose of oil and other liquids according to local waste authority guidelines.
- Inspect before each use; check that all connections are tight and secure.
- Never use if parts are damaged or broken; replace damaged or broken parts before operating.
- Not for use by or around children.

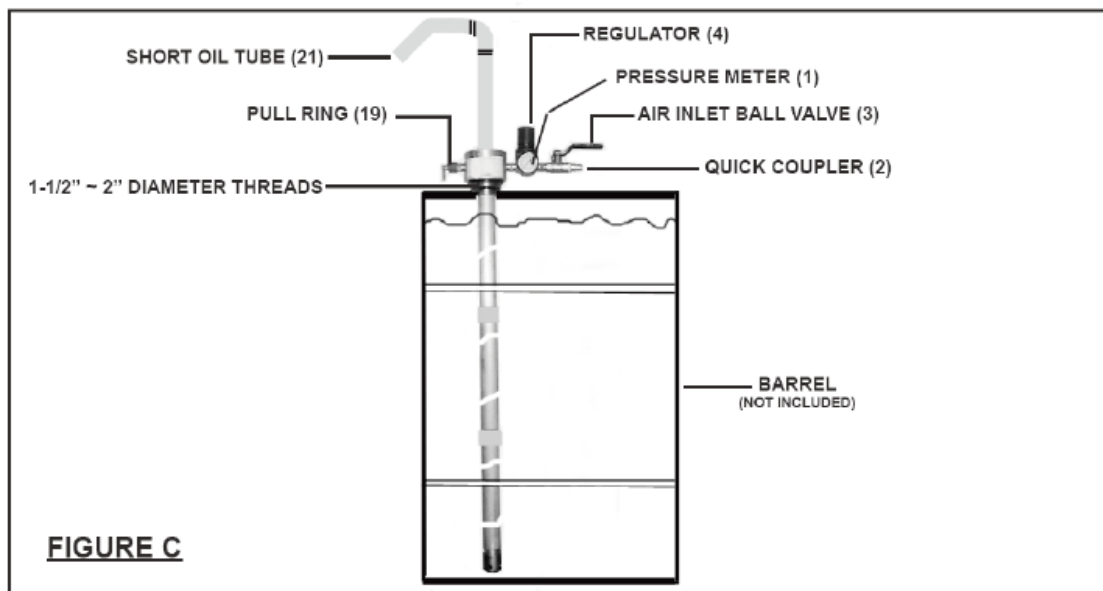
Assembly Instructions

- Wrap about 4 inches 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 (Figure B).



- Wrap about 4 inches of pipe sealer tape around the male threads located on both the upper and lower sections of the Oil Tube (6). Firmly screw one end of the Oil Tube onto the Oil Tube Coupler (7).
- Firmly screw the remaining Oil Tube Coupler (7) onto the lower section of the Oil Tube (6).
- Wrap about 4 inches of pipe sealer tape around the male threads located on both the upper and lower sections of the remaining Oil Tube (8). Firmly screw one end of the Oil Tube into the Oil Tube Coupler (7).
- Insert the Oil Filter (9) into the Inlet Plug (10). Firmly screw the Inlet Plug onto the lower section of the Oil Tube (8).
- Unscrew and remove the large bung from the barrel of liquid to be pumped.
- Insert the lower section of the Barrel Pump through the bung of the barrel. Firmly screw the pump into the female threads of the bung.
- 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 pump are designed to fit a 1 ½ in. or 2 in. diameter bung (Figure C).



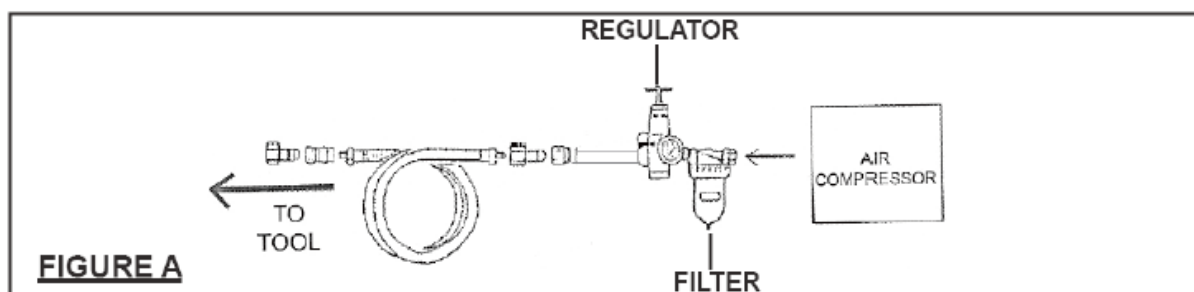
Before Each Use

⚠WARNING

- Disconnect air hose and relieve air pressure before servicing.
- Inspect before each use; check that all connections are tight and secure.
- Never use if parts are damaged or broken; replace damaged or broken parts before operating.

Use only, clean, dry, regulated, compressed air at 10 PSI. Never use oxygen carbon dioxide, combustible gases, or any other bottled gas as a power source for this tool.

For best service, you should incorporate a regulator and inline filter, as shown in the diagram below (Figure A).



Disconnect air hose and release any built-up air pressure. Never service the pump or disassemble with the air hose attached. Always release any built-up air even after disconnecting hose. Disconnect the pump when not in use.

Remove adjusting wrenches. Check that adjusting wrenches are removed from the tool and work surface before attaching to an air source.

Do not modify the pump in any way. Unauthorized modification may impair the function and/or safety and could affect the life of the equipment. There are specific applications for which the pump was designed.

Always check for damaged or worn out parts before using the pump. Broken parts will affect the pump operation. Replace or repair damaged or worn parts immediately.

Operating Instructions

⚠WARNING

- Wear ANSI Z87.1 compliant goggles and other protective gear while operating.
- Do not exceed the working air pressure of 10 PSI.
- Do not use with any liquid besides the intended oil. See the owner's manual for intended oil.
- Always dispose of oil and other liquids according to local waste authority guidelines.

- Make sure the Air Inlet Ball Valve (3) is in its closed position (Figure C, previous page).
- Connect one end of an air hose to the Quick Coupler (2) on the pump (Figure C).
- Connect the other end of the air hose to an air compressor (Figure A, previous page).
- Turn on the air compressor, and set its regulator to 10 PSI. Do not exceed 10 PSI (Figure C).
- Set the Regulator (4) on the Barrel Pump to 10 PSI (Figure C).
- 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 C).

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 counter-clockwise. Do not exceed 10 PSI (Figure C).

To stop the flow of liquid being pumped from the barrel, turn the Air Inlet Ball Valve (3) to its closed position (Figure C).

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.

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 (Figure C).

Storing the Pump

When the pump is not in use, store it in a secure place out of each of children. Inspect it for good working condition prior to storage and before re-use.

Maintenance

⚠WARNING

- Prior to performing any inspection, maintenance, or cleaning of the pump, make sure to disconnect the air hose from the tool. Then, open the Air Inlet Ball Valve (3) again to release any compressed air in the pump.
- All maintenance, service, and repairs not mentioned in this manual must only be performed by a qualified service technician.

Maintain the product by adopting a program of conscientious repair and maintenance in accordance with the following recommended procedures. It is recommended that the general condition of any tool be examined before it is used. Keep your tool in good repair. Keep handles dry, clean, and free from oil and grease. The following chart is based on a normal operation schedule.

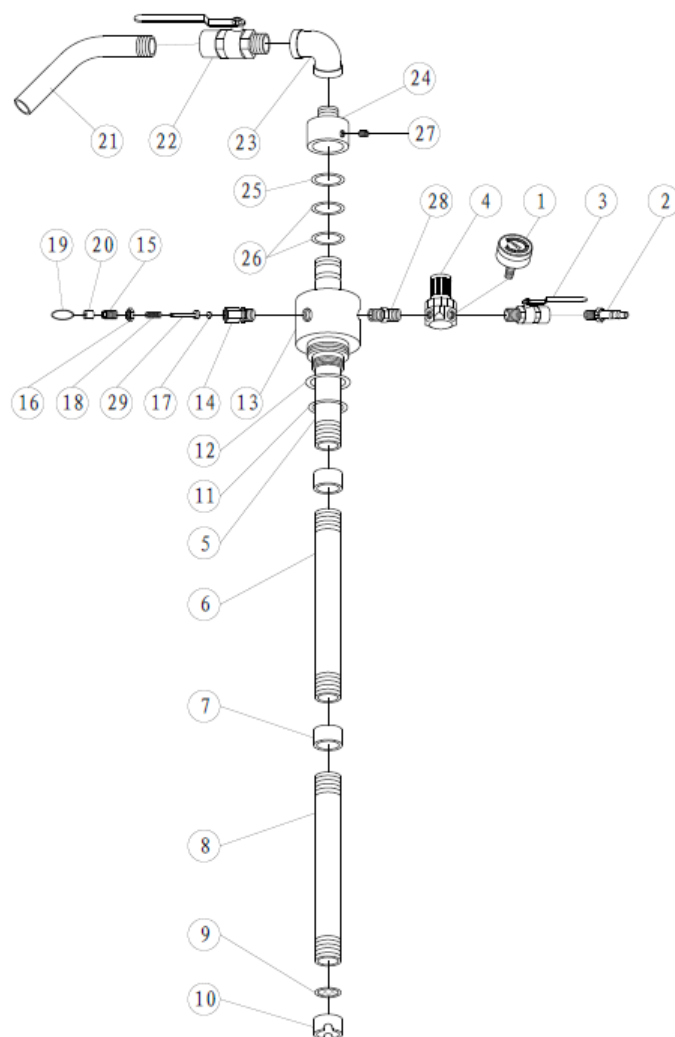
Maintenance Interval	Maintenance Point
Daily before operating	• Before each use, check the pump for loose connections, damaged parts, and any other condition that will affect the safe and proper operation of the tool. If there is a problem with the pump, immediately discontinue its use and have the tool repaired before further use. • To clean the exterior of the pump, wipe with a clean, damp cloth using a mild detergent or mild solvent. Do not immerse the pump in liquids. • To clean the interior of the pump, immerse the lower section into a container filled with a mild detergent or mild solvent. Connect the 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 runs clean. When finished, disconnect container until the detergent or solvent being pumped runs clean. When finished, disconnect the container of detergent/solvent. Then, thoroughly dry the pump. • Always dispose of oil and other liquids according to local waste authority guidelines. • When storing, always store the pump in a clean, dry, safe location out of reach of children.

Troubleshooting

Use the table below to troubleshoot problems before contacting service personnel or your local dealer. If the problem continues after troubleshooting, call your local dealer for assistance.

Failure	Corrective Action
Pump is not pumping properly or not pumping at all.	• Make sure the pump is firmly screwed into the barrel. • Make sure the Air Inlet Valve of the pump is open. • Make sure the air hose connections are secure. • Make sure the air compressor is set at 8.5 PSI. • Make sure the Air Regulator of the pump is adjusted to compensate for the viscosity of the liquid being pumped. • Remove the pump from the barrel, and check the pump for blockages in its system. • Have a qualified service technician check the pump for damage.

Parts Diagram



Parts List

Reference	Part Description	Quantity
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

Reference	Part Description	Quantity
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	1
28	Coupler	1

Replacement Parts

- For replacement parts and technical questions, please call Customer Service at **1-800-222-5381**.
- Not all product components are available for replacement. The illustrations provided are a convenient reference to the location and position of parts in the assembly sequence.
- When ordering parts, the following information will be required: item description, item model number, item serial number/item lot date code, and the replacement part reference number.
- The distributor reserves the rights to make design changes and improvements to product lines and manuals without notice.

Limited Warranty

Northern Tool and Equipment Company, Inc. ("We" or "Us") warrants to the original purchaser only ("You" or "Your") that the Ironton product purchased will be free from material defects in both materials and workmanship, normal wear and tear excepted, for a period of **90 days** from date of purchase. The foregoing warranty is valid only if the installation and use of the product is strictly in accordance with product instructions. There are no other warranties, express or implied, including the warranty of merchantability or fitness for a particular purpose. If the product does not comply with this limited warranty, Your sole and exclusive remedy is that We will, at our sole option and within a commercially reasonable time, either replace the product or product component without charge to You or refund the purchase price (less shipping). This limited warranty is not transferable.

Limitations on the Warranty

This limited warranty does not cover: (a) normal wear and tear; (b) damage through abuse, neglect, misuse, or as a result of any accident or in any other manner; (c) damage from misapplication, overloading, or improper installation; (d) improper maintenance and repair; and (e) product alteration in any manner by anyone other than Us, with the sole exception of alterations made pursuant to product instructions and in a workmanlike manner.

Obligations of Purchaser

You must retain Your product purchase receipt to verify date of purchase and that You are the original purchaser. To make a warranty claim, contact Us at 1-800-222-5381, identify the product by make and model number, and follow the claim instructions that will be provided. The product and the purchase receipt must be provided to Us in order to process Your warranty claim. Any returned product that is replaced or refunded by Us becomes our property. You will be responsible for return shipping costs or costs related to Your return visit to a retail store.

Remedy Limits

Product replacement or a refund of the purchase price is Your sole remedy under this limited warranty or any other warranty related to the product. We shall not be liable for: service or labor charges or damage to Your property incurred in removing or replacing the product; any damages, including, without limitation, damages to tangible personal property or personal injury, related to Your improper use, installation, or maintenance of the product or product component; or any indirect, incidental or consequential damages of any kind for any reason.

Assumption of Risk

You acknowledge and agree that any use of the product for any purpose other than the specified use(s) stated in the product instructions is at Your own risk.

Governing Law

This limited warranty gives You specific legal rights, and You also may have other rights which vary from state to state. Some states do not allow limitations or exclusions on implied warranties or incidental or consequential damages, so the above limitations may not apply to You. This limited warranty is governed by the laws of the State of Minnesota, without regard to rules pertaining to conflicts of law. The state courts located in Dakota County, Minnesota shall have exclusive jurisdiction for any disputes relating to this warranty.



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www.northerntool.com

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