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Ingersoll Rand 318-B Air Vertical Polisher and Buffer User Manual

Model: 318-B

INTRODUCTION

This manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your Ingersoll Rand 318-B Air Vertical Polisher and Buffer. Please read this manual thoroughly before use and retain it for future reference.

SAFETY INFORMATION

Always observe general safety precautions when operating power tools. Failure to do so may result in serious injury or property damage.

- Wear appropriate personal protective equipment (PPE), including eye protection, hearing protection, and gloves.
- Ensure the work area is clean, well-lit, and free from obstructions.
- Disconnect the air supply before making adjustments, changing accessories, or performing maintenance.
- Do not operate the tool if it is damaged or malfunctioning.
- Keep bystanders and children away from the operating area.
- Use only accessories rated for the tool's speed and application.
- Maintain a firm grip on the tool during operation.
- Ensure proper ventilation when working with polishing compounds or buffers.

PRODUCT OVERVIEW

The Ingersoll Rand 318-B is a robust air-powered vertical polisher and buffer designed for various surface finishing applications. Its lightweight design and side handle exhaust contribute to a clean and comfortable working experience.



Image: Front view of the Ingersoll Rand 318-B Air Vertical Polisher and Buffer, showcasing its main body, handles, and polishing pad.

Key Features

- **Clean Work Area:** Side handle exhaust directs debris away from the workspace.
- **Lightweight Design:** Weighs only 4.5 pounds for reduced user fatigue.
- **Comfort:** Ergonomic design for ease of use during extended periods.
- **Power Source:** Air Powered.
- **Maximum Rotational Speed:** 2000 RPM.
- **Pad Size:** Designed for a 7-inch pad.

SETUP

1. **Unpacking:** Carefully remove the polisher/buffer from its packaging. Inspect for any shipping damage. Report any damage to your supplier immediately.
2. **Air Supply Connection:** Connect the tool to a clean, dry, regulated air supply. Ensure the air hose has an inside diameter of at least 3/8 inch (10 mm) for optimal performance. The recommended operating air pressure is 90 psi (6.2 bar).
3. **Lubrication:** Before first use, and regularly thereafter, apply a few drops of air tool oil into the air inlet. This ensures proper internal lubrication.
4. **Accessory Attachment:** Attach the appropriate 7-inch polishing or buffing pad securely to the tool's backing plate. Ensure it is centered and tightened according to the accessory manufacturer's instructions.



Image: Side view of the polisher, highlighting the air inlet connection point and handle.



Image: Another side view showing the trigger mechanism and exhaust port.

OPERATING INSTRUCTIONS

1. **Preparation:** Ensure the workpiece is clean and properly secured. Apply polishing compound or buffing agent as recommended by the product manufacturer.
2. **Starting the Tool:** Connect the air supply. Hold the tool firmly with both hands. Depress the trigger to start the tool. The tool will reach its operating speed of 2000 RPM.
3. **Application:** Place the rotating pad flat against the surface to be polished or buffed. Apply even, moderate pressure. Move the tool in a consistent pattern to ensure uniform coverage and avoid swirl marks.
4. **Speed Control:** The tool operates at a fixed speed of 2000 RPM. Control the polishing action through pressure and movement.
5. **Stopping the Tool:** Release the trigger to stop the tool. Allow the pad to come to a complete stop before lifting it from the workpiece.
6. **Exhaust Management:** The side handle exhaust directs air away from the work area, helping to keep it clean. Position the tool to utilize this feature effectively.

MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your Ingersoll Rand 318-B polisher/buffer.

- **Daily Lubrication:** Add 5-10 drops of high-quality air tool oil into the air inlet before and after each use, or every few hours of continuous operation. This lubricates the motor and extends tool life.
- **Air Filter:** Ensure your air compressor system has a functional air filter to prevent moisture and debris from entering the tool.
- **Cleaning:** Keep the tool body clean and free of polishing compound residue. Use a damp cloth; do not immerse the tool in liquids.
- **Pad Inspection:** Regularly inspect polishing and buffing pads for wear or damage. Replace worn pads to maintain effective performance and prevent damage to the workpiece.
- **Storage:** Store the tool in a clean, dry environment when not in use. Disconnect it from the air supply.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Tool not starting or low power	Insufficient air pressure; clogged air inlet; lack of lubrication; internal wear.	Check air supply pressure (should be 90 psi); clean air inlet; lubricate tool; contact service center for internal inspection.
Excessive vibration	Worn or unbalanced pad; loose backing plate; internal issue.	Replace pad; tighten backing plate; contact service center.
Air leakage	Loose fittings; damaged O-rings or seals.	Tighten all air fittings; inspect and replace damaged seals.

SPECIFICATIONS

Feature	Specification
Model	318-B
Brand	Ingersoll Rand
Power Source	Air Powered
Maximum Rotational Speed	2000 RPM
Item Weight	4.5 Pounds
Product Dimensions	10.04 x 7.6 x 3.07 inches
Grit Type	Extra Fine (Note: This specification refers to the general category of finishing tools, not an actual grit rating for this polisher/buffer.)
UPC	663023168487

WARRANTY AND SUPPORT

The Ingersoll Rand 318-B Air Vertical Polisher and Buffer comes with a 1-year warranty on material and workmanship from the date of purchase. This warranty covers defects in materials and manufacturing under normal use.

For warranty claims, technical support, or service, please contact Ingersoll Rand customer service or visit their official website. Keep your purchase receipt as proof of purchase.

Important: Unauthorized repairs or modifications will void the warranty.

For additional information, you may visit the Ingersoll Rand Store on Amazon.

PROPOSITION 65 WARNING

WARNING: This product can expose you to chemicals which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.