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## Ingersoll Rand 314-B

# Ingersoll Rand 314-B

## 7" AIR ANGLE POLISHER & BUFFER INSTRUCTION MANUAL

Model: 314-B

### Product Overview

The Ingersoll Rand 314-B is a versatile 7-inch air angle polisher and buffer designed for a wide range of applications and surfaces. Its robust construction and efficient design ensure reliable performance for both polishing and buffing tasks.

This tool is engineered to provide precise control and consistent results, making it suitable for various professional and DIY projects requiring surface finishing.



Figure 1: Ingersoll Rand 314-B Air Angle Polisher and Buffer, showing the main body, handle, and 7-inch pad.

### Key Features

- **Ease of Use:** Features variable speed options, allowing users to adjust the tool's performance to suit specific application requirements.
- **Extended Reach:** Designed with an angled head to access deep and hard-to-reach spaces, enhancing versatility.
- **High Performance:** Equipped with a heavy-duty motor capable of handling demanding jobs, ensuring consistent and effective operation.
- **Durable Construction:** Built with quality materials for long-lasting reliability and durability in various working conditions.

## Specifications

Attribute	Value
Brand	Ingersoll Rand
Model Number	314-B
Power Source	Air Powered
Maximum Rotational Speed	3000 RPM
Disc Diameter	7 inches
Item Weight	4.67 pounds
Product Dimensions	14.37 x 6.89 x 2.76 inches
Grit Type	Extra Fine
Color	Silver

## Safety Information

Always read and understand all safety warnings and instructions before operating this tool. Failure to follow the warnings and instructions may result in electric shock, fire, and/or serious injury.

- 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 any adjustments, changing accessories, or storing the tool.
- Do not operate the tool if it is damaged or malfunctioning.
- Maintain a firm grip on the tool during operation.
- Keep bystanders and children away from the operating area.
- Use only accessories specifically designed for this tool.

## Setup

1. **Unpacking:** Carefully remove the polisher/buffer from its packaging. Inspect the tool for any signs of damage during shipping.
2. **Air Supply Connection:**

- Ensure your air compressor can provide sufficient air pressure and volume (CFM) for the tool's requirements. Refer to the tool's specifications for recommended air pressure.
- Attach a suitable air hose (not included) to the tool's air inlet. Use thread sealant tape on the air inlet threads to ensure an airtight connection.
- Connect the other end of the air hose to your air compressor's regulated output.

### 3. Pad Installation:

- Ensure the tool is disconnected from the air supply.
- Align the desired polishing or buffing pad with the tool's backing plate. The 314-B typically uses a 7-inch composite pad.
- Securely attach the pad according to its specific attachment mechanism (e.g., hook-and-loop, threaded).

4. **Handle Attachment:** Attach the auxiliary handle to the designated mounting point on the tool. Ensure it is tightened securely for safe and comfortable operation.



Figure 2: Top view of the polisher, showing the air inlet and handle attachment point.

## Operating Instructions

### 1. Preparation:

- Ensure the workpiece is clean and properly secured.
- Apply the appropriate polishing or buffing compound to the pad or workpiece as recommended by the compound manufacturer.

2. **Connecting Air:** Connect the air hose to the tool and turn on the air compressor. Adjust the air regulator to the recommended operating pressure.
3. **Starting the Tool:** Hold the tool firmly with both hands. Depress the trigger to start the tool. The variable speed feature allows you to control the RPM by adjusting the trigger pressure.
4. **Polishing/Buffering:**
  - Place the rotating pad flat against the surface of the workpiece.
  - Move the tool in a consistent, overlapping pattern across the surface. Avoid applying excessive pressure, as this can lead to uneven results or damage to the surface.
  - For best results, maintain a steady speed and even pressure.
5. **Stopping the Tool:** Release the trigger to stop the tool. Disconnect the air supply when finished or before making any adjustments.



Figure 3: Side profile of the polisher, highlighting the trigger mechanism and ergonomic design.

## Maintenance

Regular maintenance ensures the longevity and optimal performance of your Ingersoll Rand 314-B polisher/buffer.

- **Daily:**
  - Disconnect from air supply.
  - Clean the exterior of the tool with a soft, dry cloth. Remove any dust or debris from air vents.
  - Inspect the air hose and connections for wear or damage.
- **Weekly/Before Each Use:**
  - Add a few drops of pneumatic tool oil into the air inlet before each use or at the beginning of each workday. This lubricates internal components.
  - Check the condition of the polishing/buffing pad. Replace if worn, torn, or no longer effective.
- **Storage:** Store the tool in a clean, dry environment away from direct sunlight and extreme temperatures.

## Troubleshooting

Problem	Possible Cause	Solution
Tool does not start or runs slowly.	Low air pressure or insufficient air volume (CFM). Clogged air inlet or internal components. Lack of lubrication.	Check air compressor output and regulator setting. Inspect air lines for kinks or leaks. Clean air inlet and lubricate tool.
Excessive vibration.	Damaged or unbalanced pad. Loose components.	Inspect and replace pad if necessary. Check all fasteners and tighten as needed.
Air leaks from tool.	Loose fittings. Worn O-rings or seals.	Tighten all air fittings. Contact authorized service center for seal replacement.

## Warranty and Support

The Ingersoll Rand 314-B Air Angle Polisher & 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 inquiries, please contact Ingersoll Rand customer service or an authorized service center. Keep your proof of purchase for warranty validation.

For the most up-to-date support information and contact details, please visit the official Ingersoll Rand website or refer to the documentation included with your product.

You can also visit the [Ingersoll Rand Store on Amazon](#) for additional product information and resources.