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Atlas AE803-2520

Instruction Manual: Atlas Pistol Spin/Spin Pneumatic Insert Tool

Model: AE803-2520

PRODUCT OVERVIEW

The Atlas AE803-2520 is a high-performance pistol-grip pneumatic insert tool designed for efficient installation of threaded inserts. This spin/spin tool operates at 600 RPM and is equipped with a 1/4-20 thread adapter kit, making it suitable for various industrial and assembly applications. Its robust design ensures durability and reliable performance.



Image: The Atlas AE803-2520 Pistol Spin/Spin Pneumatic Insert Tool, showing its ergonomic pistol grip and front spindle.

IMPORTANT SAFETY INFORMATION

Always follow these safety precautions to prevent injury and damage to the tool.

- Read and understand all instructions before operating the tool.
- Wear appropriate personal protective equipment (PPE), including eye protection, hearing protection, and gloves.
- Ensure the air supply is disconnected before performing any maintenance, adjustments, or changing

accessories.

- Maintain a secure grip on the tool during operation.
- Do not operate the tool if it is damaged or malfunctioning.
- Keep work area clean and well-lit. Cluttered or dark areas invite accidents.
- Use only genuine Atlas replacement parts and accessories.

Tool Components

Familiarize yourself with the main components of your Atlas pneumatic insert tool:

- **Pistol Grip Handle:** Ergonomically designed for comfortable and secure handling.
- **Trigger:** Activates the tool's pneumatic motor.
- **Air Inlet:** Connection point for the compressed air supply.
- **Spindle/Mandrel:** The rotating part that engages with the threaded insert.
- **Depth Adjustment Collar:** Allows for precise control over the insert installation depth.
- **Reverse Button:** Used to reverse the spindle rotation for removing the tool from the installed insert.



Image: The official Atlas Tools logo, indicating the brand of the pneumatic insert tool.

Setup Instructions

1. Air Supply Connection:

Connect the tool to a clean, dry, regulated compressed air supply. Ensure the air pressure is within the recommended range (typically 90 PSI / 6.2 bar). Use an air hose with an adequate diameter to ensure proper airflow.

2. Lubrication:

Before first use, and regularly thereafter, apply a few drops of pneumatic tool oil into the air inlet. This lubricates the internal components and extends tool life.

3. Mandrel and Anvil Installation (if not pre-installed):

Ensure the correct size mandrel and anvil are securely installed for the 1/4-20 inserts. Refer to the tool's specific diagram for proper assembly. Tighten all components firmly.

4. Depth Adjustment:

Adjust the depth setting collar to achieve the desired flushness or protrusion of the installed insert. Test on a scrap piece of material before final application.

OPERATING INSTRUCTIONS

1. **Prepare the Workpiece:**

Drill a hole of the correct diameter for the 1/4-20 insert in the material. Ensure the hole is clean and free of debris.

2. **Load the Insert:**

Thread the 1/4-20 insert onto the tool's mandrel until it is snug against the anvil.

3. **Position the Tool:**

Place the insert into the prepared hole in the workpiece. Ensure the tool is held perpendicular to the surface.

4. **Install the Insert:**

Press the trigger to activate the tool. The mandrel will spin, pulling the insert into the material and deforming it to create a secure thread. Continue until the insert is fully seated and the tool stalls or reaches the set depth.

5. **Retract the Mandrel:**

Release the trigger. Press the reverse button (if applicable) or allow the tool to automatically reverse, then carefully withdraw the tool from the newly installed insert.

6. **Inspect Installation:**

Visually inspect the installed insert to ensure it is flush and securely fastened.

MAINTENANCE

- **Daily Lubrication:** Add 5-10 drops of pneumatic tool oil into the air inlet before each use or at the start of each shift.
- **Cleanliness:** Keep the tool clean and free of dirt, dust, and debris. Wipe down the exterior with a clean cloth.
- **Air Filter/Regulator:** Regularly check and drain moisture from your air compressor's filter/regulator. Ensure the air supply is clean and dry.
- **Mandrel/Anvil Inspection:** Periodically inspect the mandrel and anvil for wear or damage. Replace worn components to ensure proper insert installation.
- **Storage:** Store the tool in a dry, clean environment when not in use.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Tool not operating or low power.	Low air pressure; insufficient air flow; lack of lubrication; clogged air inlet.	Check air pressure and hose size; add pneumatic tool oil; clean air inlet.

Problem	Possible Cause	Solution
Insert not installing correctly (e.g., not fully collapsing).	Incorrect mandrel/anvil size; worn mandrel/anvil; incorrect depth setting; insufficient air pressure.	Verify mandrel/anvil size; replace worn parts; adjust depth setting; check air pressure.
Tool jams or struggles to retract.	Insert over-installed; damaged insert; mandrel stuck.	Adjust depth setting; ensure inserts are not damaged; inspect mandrel for wear.

SPECIFICATIONS

Feature	Detail
Model	AE803-2520
Tool Type	Pistol Spin/Spin Pneumatic Insert Tool
Thread Adapter Kit	1/4-20
RPM	600 RPM
Item Weight	8.5 pounds
Manufacturer	Atlas

WARRANTY AND SUPPORT

For warranty information, technical support, or to order replacement parts, please contact your authorized Atlas dealer or visit the official Atlas Tools website. Keep your purchase receipt as proof of purchase. For further assistance, please refer to the contact information provided with your purchase or on the manufacturer's official website.