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Vastar AAVART020301MALDE

Vastar 135W Rotary Tool Kit

Model: AAVART020301MALDE

1. INTRODUCTION

Thank you for choosing the Vastar 135W Rotary Tool Kit. This versatile power tool is designed for a wide range of precision tasks, including grinding, cutting, engraving, drilling, and polishing. This manual provides essential information for safe operation, proper assembly, maintenance, and troubleshooting to ensure optimal performance and longevity of your tool.

Package Contents

Your Vastar Rotary Tool Kit includes:

- Vastar 135W Rotary Tool
- 211 Mechanical Grinding Accessories
- 3 Special Attachments
- 1 Flexible Shaft
- Protection Cover
- Horn-shaped Positioner
- Carrying Case

Accessory Detail



Figure 1: Overview of the Vastar Rotary Tool and Included Accessories

2. SAFETY INSTRUCTIONS

Always observe basic safety precautions to reduce the risk of fire, electric shock, and personal injury when using this tool. Read all instructions carefully before operation.

General Safety

- **Work Area Safety:** Keep your work area clean and well-lit. Cluttered or dark areas invite accidents. Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust.
- **Electrical Safety:** Power tool plugs must match the outlet. Never modify the plug in any way. Do not abuse the cord. Never use the cord for carrying, pulling, or unplugging the power tool. Keep cord away from heat, oil, sharp edges, or moving parts.
- **Personal Safety:** Always wear appropriate personal protective equipment (PPE), including safety glasses, hearing protection, and a dust mask. Dress properly; avoid loose clothing or jewelry that can get caught in moving parts.
- **Tool Use and Care:** Do not force the power tool. Use the correct power tool for your application. Disconnect the plug from the power source before making any adjustments, changing accessories, or storing power tools.

- **Maintenance:** Maintain power tools and accessories. Check for misalignment or binding of moving parts, breakage of parts, and any other condition that may affect the power tool's operation.

3. PRODUCT OVERVIEW

Familiarize yourself with the components of your Vastar Rotary Tool for effective and safe operation.



Figure 2: Vastar Rotary Tool Components

1. **Collet:** Holds the accessory securely.
2. **Collet Nut:** Tightens the collet to secure the accessory.
3. **Collar:** Provides additional support and protection.
4. **Spindle Lock Button:** Engages to lock the spindle for easy accessory changes.
5. **Carbon Brush:** Essential component for motor operation (replaceable).
6. **Speed Adjustment:** Dial to select one of 6 variable speeds.
7. **Power Cord:** Connects the tool to the electrical outlet.
8. **Ventilation:** Ensures proper cooling of the motor.
9. **Switch:** On/Off control for the tool.
10. **Hanging Ring:** For convenient storage.

4. ASSEMBLY AND SETUP

4.1. Attaching Accessories

Follow these steps to securely attach accessories to your rotary tool:

1. Press and hold the spindle lock button to lock the collet.
2. Rotate the black collet nut counter-clockwise to remove it.
3. Select the appropriate copper collet for your accessory and insert it first, followed by the accessory shaft.
4. Place the black collet nut back on and rotate it clockwise to tighten. Use the provided wrench to fully secure the accessory.



1: Press and hold the spindle lock button to lock the collet, and rotate the black nut counterclockwise to remove it

2: Select the copper collet and drill bit, insert the copper collet first, then the black nut, and finally the adapter drill bit.



3: Press and hold the button, and turn the black nut clockwise with a wrench to tighten it.

4: Complete installation

Figure 3: Accessory Installation Steps

4.2. Flexible Shaft Installation

The flexible shaft allows for greater precision and maneuverability in detailed work.

1. Ensure the rotary tool is unplugged.
2. Remove the collet nut and collet from the rotary tool as described in Section 4.1.
3. Insert the inner core of the flexible shaft into the rotary tool's chuck.
4. Tighten the flexible shaft's collar onto the rotary tool's threaded spindle.
5. At the other end of the flexible shaft, insert the desired accessory into the collet and tighten it with the provided wrench.



Figure 4: Flexible Shaft Installation

5. OPERATING INSTRUCTIONS

5.1. Power On/Off and Speed Adjustment

To turn the tool ON or OFF, use the main switch. The tool features a 6-stage variable speed control, allowing you to adjust the rotation speed from 8,000 RPM to 35,000 RPM. Select the appropriate speed for your material and accessory.



Figure 5: Speed Adjustment Dial and Switch

5.2. Applications

The Vastar Rotary Tool is suitable for various applications. Always use the correct accessory and speed setting for the task.



Figure 6: Diverse Applications of the Rotary Tool

- **Drilling:** Use appropriate drill bits for wood, plastic, or soft metals. Ensure the workpiece is secured.
- **Cutting:** Utilize cutting discs for various materials. Always use the protection cover when cutting.
- **Engraving/Carving:** Select engraving bits for detailed work on wood, metal, or glass. The flexible shaft is ideal for these tasks.
- **Grinding/Sanding:** Attach grinding stones or sanding bands for shaping, smoothing, or removing material.
- **Polishing:** Use felt wheels or polishing accessories with polishing compound to achieve a smooth, shiny finish.
- **Cleaning/Deburring:** Wire brushes can be used for rust removal or cleaning metal surfaces.

6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your Vastar Rotary Tool.

6.1. Carbon Brush Replacement

The carbon brushes are wear-and-tear parts and need to be replaced periodically. It is recommended to check the carbon brush wear every 2 months. Replace the carbon brush when it is worn to 1/4 of its original length.



Figure 7: Carbon Brush Wear Indicator

To replace the carbon brushes:

1. Ensure the tool is unplugged from the power source.
2. Use a key or small screwdriver to open the carbon brush cover by turning it counter-clockwise.
3. Remove the old carbon brush.
4. Insert the new carbon brush.
5. Close the carbon brush cover by turning it clockwise with the key.



Figure 8: Carbon Brush Replacement Steps

6.2. General Cleaning

After each use, unplug the tool and clean any dust or debris from the ventilation openings and the tool body using a soft cloth or brush. Do not use harsh chemicals or abrasive cleaners.

7. TROUBLESHOOTING

This section addresses common issues you might encounter with your rotary tool.

Problem	Possible Cause	Solution
Tool does not start	No power supply; Faulty switch; Worn carbon brushes	Check power connection; Test switch; Replace carbon brushes (see Section 6.1)
Excessive vibration or noise	Accessory not properly installed; Bent accessory shaft; Damaged collet	Re-install accessory securely; Replace bent or damaged accessories; Replace collet if damaged
Tool overheats	Blocked ventilation; Overloading the tool; Prolonged use at low speed	Clean ventilation openings; Reduce pressure on the tool; Allow tool to cool down; Use appropriate speed for the task
Accessory slips	Collet not tightened enough; Incorrect collet size; Worn collet	Tighten collet nut firmly; Use correct collet size for accessory; Replace worn collet

8. SPECIFICATIONS

Technical specifications for the Vastar 135W Rotary Tool Kit.

Feature	Specification
Manufacturer	Vastar
Model Number	AAVART020301MALDE
Power	135 Watts
Voltage	220-240 Volts, 50Hz
Product Dimensions (L x W x H)	30 x 18.5 x 8.5 cm
Weight	1.73 Kilograms
Max Rotation Speed	35,000 RPM
Adjustable Speeds	6 levels (8,000 to 35,000 RPM)
Special Feature	Variable Speed
Recommended Uses	Deburring, Grinding, Polishing, Sanding, Cutting, Engraving
Included Components	211 mechanical grinding accessories, 3 special attachments, 1 flexible shaft, protection cover, horn-shaped positioner

9. WARRANTY AND SUPPORT

Vastar products are manufactured to high-quality standards. For warranty information, technical support, or service inquiries, please refer to the contact information provided with your purchase or visit the official Vastar website.

Please retain your proof of purchase for any warranty claims.