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› SASKATE 130W Electric Rotary Tool Kit SASKATEn4ambd32fk-11 User Manual

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Comprehensive instructions for safe and effective operation.

INTRODUCTION

Thank you for choosing the SASKATE 130W Electric Rotary Tool Kit. This versatile mini grinder set is designed for a wide range of applications, including carving, grinding, polishing, shaping, drilling, deburring, cleaning, engraving, trimming, and sanding. With its adjustable speed and comprehensive accessory set, it is suitable for various materials such as wood, metal, ceramic, and plastic. Please read this manual thoroughly before operating the tool to ensure safe and efficient use.



Figure 1: Overview of the SASKATE 130W Electric Rotary Tool Kit and included accessories.

IMPORTANT SAFETY INSTRUCTIONS

Always follow basic safety precautions when using electrical tools to reduce the risk of fire, electric shock, and personal injury.

- **Read All Instructions:** Familiarize yourself with the tool's operation and safety guidelines before use.
- **Wear Eye Protection:** Always wear safety goggles or safety glasses with side shields that comply with current national standards.
- **Wear Respiratory Protection:** When sanding or grinding, wear a dust mask or respirator to avoid inhaling fine particles.
- **Secure Workpiece:** Always clamp or otherwise secure the workpiece to prevent movement during operation.
- **Maintain a Clean Work Area:** Cluttered areas and benches invite accidents.
- **Avoid Dangerous Environments:** Do not use power tools in damp or wet locations, or expose them to rain. Keep work area well lit.
- **Keep Children Away:** All visitors should be kept a safe distance from the work area.
- **Dress Properly:** Do not wear loose clothing or jewelry. They can be caught in moving parts. Rubber gloves and non-skid footwear are recommended when working outdoors. Wear protective hair covering to contain long hair.
- **Use Right Tool:** Do not force tool or attachment to do a job for which it was not designed.
- **Disconnect Power:** Always disconnect the tool from the power source before changing accessories, making adjustments, or performing maintenance.

- **Inspect Tool and Accessories:** Before each use, check for damaged parts, misalignment, binding of moving parts, breakage of parts, and any other condition that may affect its operation.
- **Store Idle Tools:** When not in use, tools should be stored in a dry, high, or locked-up place, out of reach of children.

PACKAGE CONTENTS

Verify that all items listed below are present in your package. If any items are missing or damaged, please contact customer support.

- 1x Electric Grinder (Rotary Tool)
- 1x Flexible Shaft
- 1x Drill Locator
- 1x Protective Case
- 1x Storage Box (for main kit)
- 1x Accessory Storage Box
- 1x Universal Chuck
- 2x Wrenches
- 2x Carbon Brushes
- 2x Steel Wire Brushes
- 3x Cutting Wheels
- 3x Diamond Cutting Discs
- 3x Mini HSS Cutting Discs
- 4x Drill Bits
- 6x Connecting Rods
- 10x Grindstones
- 3x Rotary Burr Needles (Random)
- 10x Engraving Needles (Random)
- 12x Felt Wheels
- 18x Sand Drums
- 15x Sandpaper Discs (Random Color)
- 30x Resin Cutting Discs (Random Color)
- 1x User Manual (This document)



Figure 2: A detailed view of the rotary tool and various accessories included in the kit.

SETUP

1. Attaching Accessories to the Rotary Tool

1. **Ensure Power is Disconnected:** Always unplug the rotary tool from the power outlet before changing any accessories.
2. **Loosen the Collet Nut:** Press the spindle lock button (usually located near the collet) and use one of the provided wrenches to loosen the collet nut. If using the universal chuck, simply twist to loosen.
3. **Insert Accessory:** Insert the shank of the desired accessory (drill bit, grinding stone, etc.) into the collet or universal chuck. Ensure it is inserted as far as possible without the accessory touching the chuck body.
4. **Tighten the Collet Nut:** While holding the spindle lock button, tighten the collet nut firmly with the wrench. For the universal chuck, hand-tighten securely. Do not overtighten.



Figure 3: Close-up of the rotary tool's speed control and chuck area, illustrating where accessories are attached.

2. Installing the Flexible Shaft

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

1. **Remove Collet Nut:** Unscrew and remove the collet nut and collet from the main rotary tool.
2. **Insert Flexible Shaft Core:** Insert the inner drive core of the flexible shaft into the rotary tool's chuck opening. Ensure it is fully seated.
3. **Attach Flexible Shaft Housing:** Screw the threaded end of the flexible shaft housing onto the rotary tool's housing until secure.
4. **Attach Accessory to Flexible Shaft:** The flexible shaft has its own chuck. Follow the same procedure as above to attach accessories to the flexible shaft's chuck.





Figure 4: The flexible shaft and a typical accessory storage box, highlighting components for detailed work.

OPERATING INSTRUCTIONS

1. Powering On and Off

- **Connect Power:** Plug the tool into a standard 110V US power outlet.
- **Turn On:** Locate the ON/OFF switch on the tool body and slide it to the "ON" position.
- **Turn Off:** Slide the ON/OFF switch to the "OFF" position. Always wait for the accessory to come to a complete stop before setting the tool down.

2. Adjusting Speed

The SASKATE rotary tool features 5 adjustable speed settings, ranging from 8000 to 30000 RPM.

- **Speed Dial:** Use the speed dial or selector switch on the tool body to choose the desired speed.
- **Recommended Speeds:**
 - **Low Speeds (8000-15000 RPM):** Ideal for polishing, delicate carving, and working with softer materials like plastic.
 - **Medium Speeds (15000-25000 RPM):** Suitable for general grinding, sanding, and cutting tasks on wood and some metals.
 - **High Speeds (25000-30000 RPM):** Best for heavy-duty cutting, shaping, and engraving on harder materials like metal and ceramic.
- Always start with a lower speed and gradually increase it to find the optimal setting for your specific task and material.

3. General Usage Tips

- **Light Pressure:** Let the tool do the work. Applying excessive pressure can cause the tool to bog down, overheat, or damage the workpiece/accessory.
- **Consistent Movement:** Keep the tool moving to prevent burning or gouging the material.
- **Test on Scrap Material:** Before working on your final project, practice on a piece of scrap material to get a feel for the tool and accessory.
- **Cooling:** For prolonged use, especially with metal, allow the tool to cool periodically to prevent overheating.

MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your rotary tool.

- **Cleaning:** After each use, unplug the tool and use a soft brush or compressed air to remove dust and debris from the ventilation slots and around the chuck area. Do not use solvents or harsh chemicals.
- **Accessory Storage:** Store all accessories in the provided accessory storage box to keep them organized and protected.
- **Cord Inspection:** Periodically inspect the power cord for any signs of damage, cuts, or fraying. If damaged, have it repaired by a qualified technician.
- **Carbon Brush Replacement:** The tool uses carbon brushes which wear down over time. If the tool experiences reduced power, intermittent operation, or excessive sparking, the carbon brushes may need replacement. Refer to the included carbon brushes in your kit. To replace, locate the brush caps on the sides of the motor housing, unscrew them, remove the old brushes, and insert new ones. Securely fasten the caps.

TROUBLESHOOTING

If you encounter issues with your rotary tool, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Tool does not start	No power supply; ON/OFF switch is off; Carbon brushes worn out.	Check power connection; Ensure switch is ON; Replace carbon brushes.
Reduced power or intermittent operation	Worn carbon brushes; Overload; Loose connection.	Replace carbon brushes; Reduce pressure on workpiece; Check power cord and plug.
Excessive vibration	Bent accessory shank; Accessory not properly seated; Damaged accessory.	Replace bent accessory; Re-seat accessory firmly in chuck; Use a new, undamaged accessory.
Tool overheats	Blocked ventilation slots; Excessive continuous use; Overload.	Clean ventilation slots; Allow tool to cool; Reduce pressure and workload.

SPECIFICATIONS

Feature	Detail
Model Number	SASKATEn4ambd32fk-11
Power	130W
Speed Range	8000-30000rpm (5 adjustable speeds)
Chuck Capacity	0.5-3.2mm (Universal Keyless Chuck)
Input Voltage	110V (US Plug)

Feature	Detail
Item Weight	3.67 pounds
Package Dimensions	12.99 x 10.24 x 3.15 inches
Recommended Uses	Engraving, Cutting, Grinding, Polishing, Sanding, Carving, Trimming, Drilling, Deburring, Shaping

WARRANTY AND SUPPORT

SASKATE is committed to providing high-quality products. For warranty information, technical support, or any questions regarding your SASKATE 130W Electric Rotary Tool Kit, please refer to the contact information provided at the point of purchase or visit the official SASKATE website. Please retain your proof of purchase for warranty claims.