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› VONROC 20V Cordless Orbital Sander User Manual

VONROC S3_OS503DC

VONROC 20V Cordless Orbital Sander User Manual

Model: S3_OS503DC

1. INTRODUCTION

Thank you for choosing the VONROC 20V Cordless Orbital Sander. This comprehensive set is designed for efficient and versatile sanding tasks, suitable for various surfaces including wood, metal, and plastic. Its dual-action orbital and rotary movement ensures rapid material removal while minimizing swirl marks, providing a smooth finish.

This manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of your new tool. Please read it thoroughly before first use and keep it for future reference.

2. SAFETY INSTRUCTIONS

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

- **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:** Avoid body contact with earthed or grounded surfaces (e.g., pipes, radiators, ranges, refrigerators). Do not expose power tools to rain or wet conditions.
- **Personal Safety:** Always wear eye protection. Use dust masks, non-skid safety shoes, hard hats, or hearing protection for appropriate conditions. Dress properly; avoid loose clothing or jewelry.
- **Tool Use and Care:** Do not force the power tool. Use the correct power tool for your application. Disconnect the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools.
- **Battery Pack Use and Care:** Recharge only with the charger specified by the manufacturer. Do not use battery packs with any other power tools. When battery pack is not in use, keep it away from other metal objects.
- **Service:** Have your power tool serviced by a qualified repair person using only identical replacement parts.

3. PRODUCT OVERVIEW

Familiarize yourself with the components of your VONROC Cordless Orbital Sander.



Figure 3.1: Complete set of the VONROC 20V Cordless Orbital Sander, including the sander unit, a 4.0 Ah battery, a battery charger, and a selection of abrasive sanding discs.



Figure 3.2: Side view of the sander showing the attached 4.0 Ah battery and the dust collection bag securely fitted at the rear of the tool.



Figure 3.3: View of the sanding pad with an abrasive sheet attached, highlighting the hook-and-loop fastening system and the dust extraction holes. The dust collection bag is visible at the back.



Figure 3.4: Close-up of the top section of the sander, illustrating the integrated speed control dial for adjusting the oscillation rate and the battery indicator lights.

Key Components:

- **Sander Body:** The main housing of the tool, ergonomically designed for comfortable grip.
- **Battery Pack (4.0 Ah):** Provides cordless power to the sander.
- **Battery Charger:** Used to recharge the battery pack.
- **Sanding Pad (Ø125mm):** The circular base where abrasive sheets are attached. Features hook-and-loop fastening.
- **Dust Collection Bag:** Attaches to the dust port to collect sanding debris.
- **Speed Control Dial:** Allows adjustment of the sanding speed (5000-10000/min).
- **On/Off Switch:** Activates and deactivates the tool.

4. SETUP

4.1 Charging the Battery

1. Connect the battery charger to a suitable power outlet.
2. Slide the 4.0 Ah battery pack onto the charger. Ensure it clicks into place.
3. The indicator light on the charger will show the charging status. Allow the battery to fully charge before first use.

4. Once fully charged, disconnect the battery from the charger.

4.2 Attaching the Battery

- Align the battery pack with the battery port on the sander.
- Slide the battery pack firmly into the port until it locks securely. Ensure it does not wobble.
- To remove, press the release button on the battery pack and slide it out.

4.3 Attaching Sanding Sheets

- Ensure the sander is switched off and the battery is removed.
- Select the appropriate abrasive sheet (e.g., K60 for coarse, K240 for fine) from the included 12 sheets.
- Align the holes on the sanding sheet with the dust extraction holes on the sanding pad.
- Press the sanding sheet firmly onto the hook-and-loop pad, ensuring it is centered and flat.

4.4 Attaching the Dust Collection Bag

- Locate the dust port at the rear of the sander.
- Slide the dust collection bag onto the dust port until it is securely fitted.
- Ensure a tight seal to maximize dust collection efficiency.



Figure 4.1: Detailed view of the dust collection bag, showing its attachment point to the sander's dust port. Proper attachment ensures efficient dust capture during operation.

5. OPERATING INSTRUCTIONS

5.1 Powering On/Off

- To turn on the sander, press the On/Off switch.
- To turn off the sander, press the On/Off switch again.
- Always ensure the sander is off before setting it down or performing any adjustments.

5.2 Adjusting Speed

- The sander features a variable speed control dial.
- Rotate the dial to select the desired sanding speed, ranging from 5000 to 10000 oscillations per minute.
- Lower speeds are suitable for delicate work or polishing, while higher speeds are for rapid material removal.

5.3 Sanding Techniques

- **Preparation:** Secure your workpiece to prevent movement during sanding.
- **Starting:** Place the sander flat on the workpiece before turning it on.
- **Movement:** Move the sander in slow, overlapping passes. Avoid applying excessive pressure; let the tool do the work.
- **Corners/Edges:** The orbital action allows for effective sanding on curved surfaces and edges.
- **Dust Management:** Regularly check and empty the dust collection bag to maintain optimal dust extraction and sanding performance.

6. MAINTENANCE

6.1 Cleaning the Tool

- After each use, wipe down the sander with a clean, damp cloth. Do not use harsh chemicals or abrasive cleaners.
- Use compressed air to clear dust from ventilation openings.
- Ensure the tool is dry before storage.

6.2 Emptying the Dust Collection Bag

- Regularly empty the dust collection bag, especially when it is half full, to maintain efficient dust extraction.
- Detach the bag from the dust port, empty its contents, and reattach it securely.

6.3 Sanding Pad Inspection

- Periodically inspect the hook-and-loop surface of the sanding pad for wear or damage.
- If the hook-and-loop no longer holds abrasive sheets firmly, the pad may need replacement.

6.4 Battery Care

- Store batteries in a cool, dry place away from direct sunlight and extreme temperatures.
- Do not store fully discharged batteries for extended periods. Recharge them periodically if not in use.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Sander does not start.	Battery not charged or not properly inserted.	Ensure battery is fully charged and securely inserted into the tool.
Poor sanding performance / Excessive vibration.	Worn abrasive sheet; incorrect grit; worn sanding pad; excessive pressure.	Replace abrasive sheet; use appropriate grit for the task; inspect/replace sanding pad; apply less pressure.
Ineffective dust collection.	Dust bag full; dust bag not properly attached; clogged dust port; sanding sheet holes not aligned.	Empty dust bag; reattach bag securely; clear dust port; ensure sanding sheet holes align with pad holes.
Tool stops during operation.	Battery discharged; motor overload protection activated.	Recharge battery; reduce pressure and allow tool to cool down.

8. SPECIFICATIONS

Feature	Detail
Brand	VONROC
Model Number	S3_OS503DC
Power Source	Cordless (Battery Powered)
Voltage	20 Volts
Sanding Pad Diameter	125 mm
No-load Speed	5000-10000 oscillations/min
Included Battery	4.0 Ah Lithium-ion
Included Abrasive Sheets	12 sheets (3x K60, 3x K80, 3x K120, 3x K240)
Product Dimensions (L x W x H)	59 x 23 x 30 cm
Weight	2.52 kilograms

9. WARRANTY AND SUPPORT

VONROC is committed to providing high-quality tools and excellent customer service. For any issues or questions regarding your product, please refer to the following information:

- **Return Policy:** This product is eligible for a 30-day return policy for refund or replacement. Please refer to your purchase platform for specific details.
- **Customer Service:** In most cases, VONROC aims to send a new machine without requiring the return of a defective one, reducing unnecessary CO2 emissions. For support, please contact VONROC directly through the seller contact information on your purchase platform or visit the official VONROC brand store.
- **Online Resources:** For more information, product registration, or to explore other VONROC tools and accessories, visit the official VONROC website or their brand store on Amazon.

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