

BLACK+DECKER BDCRO20C

BLACK+DECKER 20V MAX Orbital Sander

MODEL: BDCRO20C

Instruction Manual

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1. SAFETY INFORMATION

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

General Safety Rules:

- **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. Power tools create sparks which may ignite the dust or fumes. Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.
- **Electrical Safety:** Avoid body contact with earthed or grounded surfaces such as pipes, radiators, ranges, and refrigerators. There is an increased risk of electric shock if your body is earthed or grounded. Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.
- **Personal Safety:** Stay alert, watch what you are doing, and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol, or medication. A moment of inattention while operating power tools may result in serious personal injury. Use personal protective equipment. Always wear eye protection. Protective equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.
- **Power Tool Use and Care:** Do not force the power tool. Use the correct power tool for your application. The correct power tool will do the job better and safer at the rate for which it was designed. Do not use the power tool if the switch does not turn it on and off. Any power tool that cannot be controlled with the switch is dangerous and must be repaired. Disconnect the plug from the power source and/or the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools. Such preventive safety measures reduce the risk of starting the power tool accidentally. Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power

tool. Power tools are dangerous in the hands of untrained users.

- **Battery Tool Use and Care:** Recharge only with the charger specified by the manufacturer. A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack. Use power tools only with specifically designated battery packs. Use of any other battery packs may create a risk of injury and fire. When battery pack is not in use, keep it away from other metal objects, like paper clips, coins, keys, nails, screws or other small metal objects, that can make a connection from one terminal to another. Shorting the battery terminals together may cause burns or a fire. Under abusive conditions, liquid may be ejected from the battery; avoid contact. If contact accidentally occurs, flush with water. If liquid contacts eyes, additionally seek medical help. Liquid ejected from the battery may cause irritation or burns.

2. PRODUCT OVERVIEW

The BLACK+DECKER 20V MAX Orbital Sander (Model BDCRO20C) is a cordless random orbital sander designed for various sanding, finishing, and material removal tasks. It operates at 12,000 OPM for efficient performance.

Components:

- Random Orbit Sander (BDERO20)
- 20V MAX* 1.5Ah Lithium Ion Battery
- Battery Charger
- 5-inch Round Sandpaper Sheets (2 included)
- On-board Dust Collection Canister

Key Features:

- **Fast Material Removal:** Achieves 12,000 OPM (oscillations per minute) for quick removal of paint, stain, and varnish.
- **Compact, Easy-to-Maneuver Design:** Designed for comfortable grip and reduced muscle fatigue during extended use.
- **Hook-and-Loop System:** Facilitates simple and straightforward attachment and changing of sandpaper discs.
- **On-Board Dust Collection:** Features an easy-empty dust bag to maintain a cleaner work area and improve visibility.
- **20V MAX* Lithium Ion Battery:** The included battery holds a charge for up to 18 months and is interchangeable with other BLACK+DECKER 20V MAX* tools.



Image: The BLACK+DECKER 20V MAX Orbital Sander, showing its compact design, attached battery, and dust collection bag.

3. SETUP

3.1 Battery Charging

Before first use, fully charge the 20V MAX* Lithium Ion battery. Connect the charger to a standard power outlet and insert the battery pack into the charger. The indicator light on the charger will show the charging status. Refer to the charger's specific instructions for charging times and indicator meanings.

3.2 Attaching Sandpaper

The sander uses a hook-and-loop system for sandpaper attachment. Ensure the sander is turned off and the battery is removed before attaching or changing sandpaper.

1. Align the holes on the sandpaper disc with the holes on the sander's base pad.
2. Press the sandpaper firmly onto the base pad to secure it.
3. To remove, simply peel the sandpaper off the base pad.



Image: A close-up view of the BLACK+DECKER Orbital Sander, highlighting the base pad where sandpaper is attached and the dust collection bag.

3.3 Dust Collection

The sander is equipped with an on-board dust collection canister to minimize airborne dust and keep your workspace cleaner.

1. Ensure the dust collection canister is securely attached to the sander's dust port before operation.
2. Regularly check and empty the dust canister to maintain optimal dust collection efficiency.



Image: A person demonstrating how to empty the dust collection bag from the orbital sander into a trash receptacle, showing the accumulated sawdust.

4. OPERATING INSTRUCTIONS

Always wear appropriate personal protective equipment, including eye protection and a dust mask, when operating the sander.

4.1 General Sanding Techniques

1. **Secure the workpiece:** Ensure the material you are sanding is firmly clamped or secured to prevent movement during operation.
2. **Grip the sander:** Hold the sander firmly with both hands for better control.
3. **Start the sander:** Press the power switch to turn on the sander.
4. **Apply to surface:** Gently place the spinning sanding pad flat onto the workpiece.
5. **Move evenly:** Move the sander in smooth, overlapping passes across the surface. Avoid pressing down too hard, as this can reduce sanding efficiency and damage the surface or the sander. Let the tool do the work.
6. **Stop the sander:** Lift the sander from the workpiece before releasing the power switch.



Image: A person wearing safety glasses and a dust mask, using the BLACK+DECKER orbital sander to smooth the surface of a wooden planter box outdoors.



Image: A person kneeling and using the BLACK+DECKER orbital sander to sand a wooden dresser, demonstrating proper handling during operation.

4.2 Material Removal

The 12,000 OPM speed of this sander is effective for fast material removal. For aggressive material removal, use a coarser grit sandpaper. For fine finishing, switch to a finer grit sandpaper.

Your browser does not support the video tag.

Video: This video demonstrates the BLACK+DECKER 20V MAX Random Orbit Sander in action, showcasing its use for sanding various surfaces and highlighting its cordless convenience and dust collection feature.

5. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your sander. Always disconnect the battery before performing any maintenance.

5.1 Cleaning

- Wipe the exterior of the tool with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners.
- Periodically blow compressed air through the ventilation openings to clear dust from the motor housing.

5.2 Dust Bag Emptying

Empty the dust collection canister frequently, especially when sanding large amounts of material, to maintain effective dust collection and prevent clogging.

1. Remove the dust canister from the sander by twisting or pulling it off the dust port.
2. Open the canister and empty the contents into a trash bin.
3. Clean any residual dust from the filter inside the canister if applicable.
4. Reattach the clean canister securely to the sander.

6. TROUBLESHOOTING

This section addresses common issues you might encounter with your orbital sander.

Problem	Possible Cause	Solution
Sander does not start.	Battery not charged or improperly inserted.	Ensure battery is fully charged and correctly inserted into the tool.
Poor sanding performance.	Worn sandpaper; incorrect grit for task; excessive pressure applied.	Replace sandpaper; use appropriate grit; apply light, even pressure.
Excessive vibration.	Damaged or improperly attached sandpaper; loose base pad.	Check and replace sandpaper if damaged; ensure sandpaper is centered and firmly attached. If issue persists, contact support.
Ineffective dust collection.	Dust canister full or improperly attached; clogged dust port.	Empty dust canister; ensure it is securely attached; clear any blockages in the dust port.

7. SPECIFICATIONS

Feature	Detail
Brand	BLACK+DECKER
Model Number	BDCRO20C
Power Source	Battery Powered
Voltage	20 Volts MAX* (Nominal 18 Volts)
Maximum Rotational Speed	12,000 OPM (Oscillations Per Minute)
Sanding Pad Diameter	5 inches
Attachment System	Hook-and-Loop
Dust Collection	On-board Dust Canister
Item Weight	3.3 Pounds
Product Dimensions	5"L x 5"W x 11"H
Battery Type	Lithium-Ion
Included Components	(1) BDERO20 Random Orbit Sander, (1) 20V MAX* 1.5Ah Battery, (1) Charger, (2) 5" Round Sandpaper Sheets.

*Maximum initial battery voltage (measured without a workload) is 20 volts. Nominal voltage is 18 volts.

8. WARRANTY AND SUPPORT

Warranty Information:

This BLACK+DECKER product is covered by a **2-year limited warranty**. This warranty covers defects in material or workmanship. For full details regarding warranty coverage, limitations, and how to make a claim, please refer to the official warranty documentation included with your product or visit the manufacturer's website.

Customer Support:

For technical assistance, replacement parts, or service, please contact BLACK+DECKER customer support. You can find contact information and additional resources on the official BLACK+DECKER website:

www.blackanddecker.com

Please have your model number (BDCRO20C) and purchase date available when contacting support.