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› Black+Decker 18V Cordless Circular Saw BDCCS18N User Manual

BLACK+DECKER BDCCS18N

Black+Decker 18V Cordless Circular Saw

Model: BDCCS18N - User Manual

INTRODUCTION

This manual provides essential information for the safe and efficient operation, setup, and maintenance of your Black+Decker 18V Cordless Circular Saw, model BDCCS18N. Please read these instructions thoroughly before using the tool to ensure proper handling and to prevent injury or damage.

The Black+Decker BDCCS18N is a versatile 18V cordless circular saw designed for cutting wood and wood-based materials. It features a 140mm blade, offering a maximum cutting depth of 43mm at 90 degrees. This unit is supplied without a battery or charger.

GENERAL SAFETY INSTRUCTIONS

WARNING: Read all safety warnings, instructions, illustrations, and specifications provided with this power tool. Failure to follow all instructions listed below may result in electric shock, fire, and/or serious injury.

Work Area Safety

- Keep the 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

- Power tool plugs must match the outlet. Never modify the plug in any way.
- 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

- Always wear eye protection. Use safety glasses, goggles, or a face shield.
- Dress properly. Do not wear loose clothing or jewelry. Keep your hair and clothing away from moving parts.
- Stay alert, watch what you are doing, and use common sense when operating a power tool.

- Use appropriate personal protective equipment (PPE) such as dust masks, non-skid safety shoes, hard hats, or hearing protection.

Power 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.
- 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.
- 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.

PRODUCT OVERVIEW

Familiarize yourself with the components of your Black+Decker BDCCS18N circular saw before operation.



Figure 1: Overall view of the Black+Decker 18V Cordless Circular Saw (BDCCS18N). This image displays the saw from a three-quarter angle, highlighting the ergonomic handle, motor housing, blade guard, and base plate. The orange and black color scheme is prominent.



Figure 2: Side view of the circular saw, illustrating the blade, lower blade guard, and the depth adjustment mechanism. The Black+Decker branding is visible on the blade guard.

1. Main Handle with Trigger Switch
2. Auxiliary Handle
3. Motor Housing
4. Blade Guard (Upper and Lower)
5. Base Plate / Shoe
6. Depth Adjustment Lever
7. Bevel Adjustment Lever
8. Spindle Lock Button
9. Blade Clamp Bolt
10. Battery Port (Battery not included)

SETUP

1. Installing/Removing the Saw Blade

WARNING: Always disconnect the battery pack before performing any assembly or adjustments.

1. Place the saw on a flat, stable surface with the blade side facing up.
2. Press and hold the spindle lock button (8) to prevent the blade from rotating.
3. Using the provided hex key, loosen and remove the blade clamp bolt (9) by turning it counter-clockwise.

4. Lift the lower blade guard (4) and remove the outer flange and the old blade.
5. Clean any sawdust or debris from the blade flanges.
6. Position the new 140mm blade onto the inner flange, ensuring the teeth are pointing in the direction of the arrow on the blade guard.
7. Replace the outer flange and securely tighten the blade clamp bolt (9) using the hex key, turning clockwise. Do not overtighten.
8. Release the spindle lock button.



Figure 3: A user demonstrating the process of installing a new saw blade. The image shows a hand holding a hex key to loosen the blade clamp bolt, with the spindle lock button pressed.

2. Inserting/Removing the Battery Pack (Not Included)

This tool requires an 18V Black+Decker Li-Ion battery pack (sold separately).

- **To Insert:** Align the battery pack with the battery port (10) on the saw and slide it in until it clicks securely into place.
- **To Remove:** Press the battery release button (usually located on the battery pack itself) and slide the battery pack

out of the tool.

OPERATING INSTRUCTIONS

1. Adjusting Cutting Depth

The cutting depth should be set so that the blade extends approximately 3mm (1/8 inch) below the workpiece. This minimizes kickback and ensures a cleaner cut.

1. Loosen the depth adjustment lever (6).
2. Raise or lower the base plate (5) to the desired depth.
3. Tighten the depth adjustment lever (6) securely.

2. Adjusting Bevel Angle

The saw can make bevel cuts up to 45 degrees.

1. Loosen the bevel adjustment lever (7).
2. Tilt the base plate (5) to the desired angle, indicated on the bevel scale.
3. Tighten the bevel adjustment lever (7) securely.

3. Starting and Stopping the Saw

- **To Start:** Depress the safety lock-off button (if present, typically near the trigger) and then squeeze the trigger switch (1).
- **To Stop:** Release the trigger switch (1). The blade will stop rotating.

4. Making a Cut

WARNING: Ensure the workpiece is securely clamped before cutting.



Figure 4: A user demonstrating the circular saw in action, cutting a wooden board. The saw is held firmly with both hands, and sawdust is visible, indicating active cutting.



Figure 5: A close-up view of the circular saw's blade engaging with a wooden surface during a cut. Sawdust is being ejected, and the base plate is resting on the material.

1. Mark your cutting line on the workpiece.
2. Place the front edge of the saw's base plate (5) on the workpiece, ensuring the blade is aligned with your cutting line but not touching the material.
3. Start the saw by pressing the trigger. Allow the blade to reach full speed before beginning the cut.
4. Slowly and steadily push the saw forward along the cutting line. Do not force the tool. Let the blade do the work.
5. Maintain a firm grip with both hands on the main and auxiliary handles.
6. Once the cut is complete, release the trigger and allow the blade to stop completely before lifting the saw from the workpiece.

MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your circular saw.

- **Cleaning:** After each use, clean the tool with a soft cloth. Remove sawdust and debris from the motor vents, blade guard, and base plate. Do not use water or chemical cleaners.
- **Blade Inspection:** Regularly inspect the saw blade for sharpness, cracks, or missing teeth. Replace dull or damaged blades immediately.
- **Lubrication:** This tool is factory lubricated and requires no additional lubrication.
- **Battery Care:** Follow the instructions provided with your Black+Decker 18V battery and charger for proper charging and storage.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Saw does not start	Battery not inserted correctly or discharged. Safety lock-off not engaged.	Ensure battery is fully charged and properly inserted. Press safety lock-off before trigger.
Blade binds or stalls during cut	Dull blade. Incorrect cutting depth. Workpiece not supported. Forcing the saw.	Replace blade. Adjust cutting depth. Securely clamp workpiece. Reduce feed pressure.
Excessive vibration	Damaged or unbalanced blade. Loose blade clamp bolt.	Inspect and replace blade if damaged. Tighten blade clamp bolt.
Inaccurate cuts	Incorrect depth/bevel setting. Blade not aligned.	Re-check and adjust depth/bevel settings. Ensure blade is properly installed and aligned.

SPECIFICATIONS

Model:	BDCCS18N
Brand:	BLACK+DECKER
Voltage:	18V
No-Load Speed:	3700 rpm
Blade Diameter:	140 mm
Blade Teeth:	14
Max. Cutting Depth (90°):	43 mm
Bevel Capacity:	0-45°
Power Source:	Battery Powered (Battery and charger sold separately)
Recommended Surface:	Wood
Weight (Tool Only):	2.88 kg
Dimensions (L x W x H):	14 cm x 8.7 cm x 8.3 cm (approximate)

WARRANTY AND SUPPORT

Black+Decker products are manufactured to high-quality standards and are guaranteed for a specific period from the date of purchase. For detailed warranty information, service, or technical support, please refer to the warranty card included with your product or visit the official Black+Decker website. Keep your proof of purchase for warranty claims. For further assistance, please contact Black+Decker customer service.

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