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› BLACK+DECKER BDCCS18-QW 18V Cordless Circular Saw Instruction Manual

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Model: BDCCS18-QW

1. INTRODUCTION

This manual provides essential instructions for the safe and effective operation of your BLACK+DECKER BDCCS18-QW 18V Cordless Circular Saw. This tool is part of the 18V POWERCONNECT cordless system, offering versatility with other compatible BLACK+DECKER 18V tools. It features a compact and lightweight design for enhanced maneuverability and user comfort, powered by Lithium-ion technology for consistent performance without memory effect and with very low self-discharge.



Figure 1: BLACK+DECKER BDCCS18-QW 18V Cordless Circular Saw with included battery.

2. SAFETY INFORMATION

Always observe basic safety precautions to reduce the risk of fire, electric shock, and personal injury when using power tools. Read all instructions before operating this product.

General Power Tool Safety Warnings

- **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 such as pipes, radiators, ranges, and refrigerators. There is an increased risk of electric shock if your body is earthed or grounded.
- **Personal Safety:** Always wear eye protection. Use safety equipment such as dust masks, non-skid safety shoes, hard hats, or hearing protection for appropriate conditions. Stay alert, watch what you are doing, and use common sense when operating a power tool.
- **Tool Use and Care:** Do not force the power tool. Use the correct power tool for your application. Do not use the power tool if the switch does not turn it on and off. Disconnect the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools.
- **Circular Saw Specific Safety:** Keep hands away from cutting area and the blade. Do not reach underneath the workpiece. The guard cannot protect you from the blade below the workpiece.
- **Battery Safety:** Use only with specified battery packs. Do not incinerate the battery pack even if it is

severely damaged.

3. PACKAGE CONTENTS

Your BLACK+DECKER BDCCS18-QW Circular Saw package typically includes the following items:

- 1 x BLACK+DECKER BDCCS18-QW 18V Cordless Circular Saw
- 1 x 1.5Ah/18V Lithium-ion Battery
- 1 x 140mm Saw Blade
- 1 x Instruction Manual

Inspect the package contents for any damage or missing parts. If anything is missing or damaged, contact your retailer.

4. PRODUCT OVERVIEW

Familiarize yourself with the components of your circular saw before operation.



Figure 2: Side view of the circular saw, highlighting the blade and handle.

1. **Main Handle with Grip:** Provides a secure and comfortable hold.
2. **Trigger Switch:** Activates the saw.
3. **Safety Lock-off Button:** Prevents accidental starting.
4. **Battery Slot:** For inserting the 18V Lithium-ion battery.
5. **Upper Blade Guard:** Fixed guard covering the top part of the blade.

6. **Lower Blade Guard:** Retractable guard covering the bottom part of the blade.
7. **Base Plate (Shoe):** Supports the saw on the workpiece.
8. **Depth Adjustment Lever:** For setting the cutting depth.
9. **Bevel Adjustment Lever:** For setting the bevel cutting angle.
10. **Spindle Lock Button:** Used to lock the spindle for blade changes.
11. **Saw Blade:** 140mm diameter blade for cutting.

5. SETUP

5.1. Battery Installation and Removal

- **To Install:** Align the battery pack with the battery slot on the saw. Slide the battery into the tool until it clicks securely into place. The Slide Pack technology ensures a stable connection.
- **To Remove:** Press the battery release button (if present) and slide the battery pack out of the tool.

5.2. Blade Installation and Removal

Always disconnect the battery before changing the blade.



Figure 3: Demonstrating blade installation using the spindle lock.

1. Ensure the battery is removed.
2. Press and hold the spindle lock button.
3. Using the provided wrench, loosen the blade retaining screw by turning it counter-clockwise.
4. Remove the outer flange and the old blade.
5. Clean any sawdust from the blade area.

6. Place the new 140mm blade onto the spindle, ensuring the teeth are pointing in the direction of rotation (usually indicated by an arrow on the saw and blade). The blade has a 12.7mm bore.
7. Replace the outer flange and tighten the blade retaining screw clockwise while holding the spindle lock button. Do not overtighten.

5.3. Adjusting Cutting Depth

The maximum cutting depth at 90 degrees is 43mm.

1. Loosen the depth adjustment lever.
2. Raise or lower the base plate to achieve the desired cutting depth. The blade should extend approximately 3mm below the workpiece.
3. Tighten the depth adjustment lever securely.

5.4. Adjusting Bevel Angle

The saw allows for bevel cuts up to 45 degrees.

1. Loosen the bevel adjustment lever.
2. Tilt the base plate to the desired angle (up to 45 degrees).
3. Tighten the bevel adjustment lever securely.

6. OPERATING INSTRUCTIONS

6.1. Starting and Stopping the Saw

- **To Start:** Press the safety lock-off button, then squeeze the trigger switch.
- **To Stop:** Release the trigger switch. The electronic brake will quickly stop the blade.

6.2. Making a Cut



Figure 4: Proper technique for making a cut with the circular saw.

1. Secure the workpiece firmly to prevent movement during cutting.
2. Hold the saw firmly with both hands. The grip coating on the handle ensures a secure hold.
3. Place the front edge of the base plate on the workpiece, ensuring the blade is clear of the material.
4. Start the saw and allow the blade to reach full speed before beginning the cut.
5. Slowly push the saw forward through the workpiece, maintaining a steady speed. Do not force the saw. The metal base plate provides better visibility for precise cuts.
6. Once the cut is complete, release the trigger switch and allow the blade to stop completely before lifting the saw from the workpiece.

6.3. Cutting Techniques

- **Straight Cuts:** Use a straight edge guide or clamp a piece of wood to the workpiece to ensure a straight cut.
- **Bevel Cuts:** Adjust the bevel angle as described in Section 5.4. Ensure the workpiece is adequately supported to prevent pinching the blade.

7. MAINTENANCE

Regular maintenance ensures optimal performance and extends the life of your tool.

- **Cleaning:** Keep the tool's ventilation slots clean to prevent overheating. Use a soft brush or compressed air to remove dust and debris. Do not use water or chemical cleaners.
- **Blade Inspection:** Regularly inspect the saw blade for sharpness and damage. A dull or damaged blade can cause kickback and reduce cutting efficiency. Replace worn blades promptly.
- **Battery Care:** Store batteries in a cool, dry place. Do not store fully discharged batteries.

8. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
Saw does not start	Battery not charged or improperly installed; Safety lock-off not engaged.	Charge battery; Reinstall battery securely; Press safety lock-off before trigger.
Saw stops during operation	Overload/Overheating (electronic cut-off); Electronic clutch engaged due to blade binding.	Reduce cutting pressure; Allow tool to cool; Ensure blade is sharp and not binding in workpiece.
Poor cut quality or excessive vibration	Dull or damaged blade; Incorrect cutting depth; Loose blade.	Replace blade; Adjust cutting depth; Tighten blade retaining screw.

9. SPECIFICATIONS

Feature	Specification
Brand	BLACK+DECKER
Model	BDCCS18-QW
Voltage	18 Volts
Battery Type	Lithium-ion
Battery Capacity	1.5Ah (included)
No-load Speed	3700 rpm
Blade Diameter	140 mm
Blade Bore	12.7 mm
Max. Cutting Depth (90°)	43 mm
Max. Bevel Angle	45°
Weight	2.5 Kilograms
Dimensions (L x W x H)	35.5 x 22 x 21 cm
Special Features	Electronic Brake, Depth Adjustment, Electronic Clutch, Overheat Protection

Feature	Specification
Certification	CE

10. WARRANTY AND SUPPORT

BLACK+DECKER products are manufactured to high-quality standards and are guaranteed against manufacturing defects. For detailed warranty information, please refer to the warranty card included with your product or visit the official BLACK+DECKER website. For technical support, spare parts, or service, please contact BLACK+DECKER customer service or an authorized service center.

Keep your purchase receipt as proof of purchase for warranty claims.