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› BLACK+DECKER BCG720N-XJ Cordless Angle Grinder User Manual

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Model: BCG720N-XJ

1. INTRODUCTION

This manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of your BLACK+DECKER BCG720N-XJ 18V Cordless Angle Grinder. Please read this manual thoroughly before using the tool and keep it for future reference.

The BLACK+DECKER BCG720N-XJ is a powerful and ergonomic 18V cordless angle grinder designed for various cutting and grinding applications. It features an 18V motor with a speed of 8,000 rpm, optimized design with grip coating for comfortable handling, and a 3-position side handle for enhanced control. The high-resistance aluminum casing ensures optimal heat dissipation and tool durability. An on/off switch allows for comfortable one or two-handed operation. This model is supplied without a battery.

2. SAFETY GUIDELINES

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

- Wear appropriate personal protective equipment (PPE) including safety glasses, gloves, and hearing protection.
- Ensure the workpiece is securely clamped before beginning any operation.
- Keep hands clear of the rotating disc.
- Do not operate the tool in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust.
- Always disconnect the battery pack before making any adjustments, changing accessories, or storing the tool.
- Use only accessories specifically designed for this angle grinder and ensure they are correctly installed.
- Maintain a firm grip on the tool with both hands during operation.
- Do not force the tool; let the tool work at its own pace. Do not overload.
- Always be prepared for a stream of sparks when the grinding or cutting disc touches the workpiece.
- Always position the tool in such a way that the guard provides optimum protection from the grinding or cutting disc.
- Ensure proper ventilation when grinding or cutting, as sparks and dust can be generated.

3. COMPONENTS AND FEATURES



Figure 3.1: Overview of the BLACK+DECKER BCG720N-XJ Cordless Angle Grinder.



Figure 3.2: Dimensions of the angle grinder (34 cm length, 14 cm width, 11.5 cm height).

Key Features:

- **18V Motor:** Provides powerful performance for various applications.
- **8,000 RPM Speed:** Optimal speed for efficient grinding and cutting.
- **Ergonomic Design:** Features a grip coating for comfortable and secure handling.
- **3-Position Side Handle:** Enhances control and comfort during prolonged use.
- **Aluminum Casing:** High-resistance casing for optimal heat dissipation and increased durability.
- **On/Off Switch:** Designed for comfortable one or two-handed operation.
- **Spindle Thread:** M14.

4. SETUP AND ASSEMBLY

4.1. Battery Installation

The BCG720N-XJ is supplied without a battery. Ensure you use a compatible 18V Lithium-ion battery pack from BLACK+DECKER.



Figure 4.1: Inserting the 18V Lithium-ion battery pack into the tool's base until it clicks into place.

1. Align the battery pack with the receptacle on the tool's base.
2. Slide the battery pack into the tool until it locks securely in place.
3. To remove, press the release button on the battery pack and slide it out.

4.2. Accessory Installation (Discs)

Always ensure the tool is switched off and the battery is removed before changing accessories.



Figure 4.2: Using the provided tool to secure or remove the grinding/cutting disc.

1. Press and hold the spindle lock button.
2. Use the spanner wrench to loosen the clamping nut and remove the old disc.
3. Place the new disc onto the spindle, ensuring it is correctly seated.
4. Tighten the clamping nut firmly with the spanner wrench while holding the spindle lock button.
5. Ensure the guard is properly positioned for the type of disc being used (grinding or cutting).

4.3. Side Handle Adjustment

The side handle can be positioned in three different locations for optimal control and comfort.

1. Unscrew the side handle from its current position.
2. Screw the side handle into one of the alternative threaded holes on the gear housing.
3. Tighten securely.

5. OPERATING INSTRUCTIONS

5.1. Switching On and Off



Figure 5.1: Engaging the on/off switch for tool operation.

- To switch the tool on, slide the lock-off switch forward and then press the on/off switch.
- To switch the tool off, release the on/off switch.
- For continuous operation, slide the lock-off switch forward and then press the on/off switch and slide it into the locked position.
- To switch off from continuous operation, press the on/off switch again and release it.

5.2. General Operation Tips

- Always hold the tool with one hand around the side handle and the other hand around the main handle.
- When grinding, always maintain an angle of approximately 20°-30° between the disc and the workpiece surface.
- Do not apply excessive pressure; let the tool's speed and the disc's abrasive action do the work.
- For cutting, ensure the cutting disc is perpendicular to the workpiece.



Figure 5.2: Example of grinding a metal surface, such as a shovel, for sharpening or surface preparation.



Figure 5.3: Demonstrating metal cutting with the angle grinder, showing sparks generated during operation.



Figure 5.4: Using a wire brush attachment on the angle grinder to clean or prepare a metal fence surface.

6. MAINTENANCE

Your BLACK+DECKER cordless angle grinder has been designed to operate over a long period of time with a minimum of maintenance. Continuous satisfactory operation depends upon proper tool care and regular cleaning.

- **Warning!** Before doing any maintenance on cordless power tools, switch off and remove the battery from the appliance/tool.
- **Cleaning:** Regularly clean the ventilation slots of your appliance/tool using a soft brush or dry cloth.
- **Housing:** Clean the motor housing using a damp cloth. Do not use any abrasive or solvent-based cleaners.
- **Battery Care:** If the battery pack is hot, allow it to cool down before charging. Unplug the charger before cleaning it. Your charger does not require any maintenance other than regular cleaning.
- **Accessory Inspection:** Regularly inspect discs and other accessories for wear or damage. Replace worn or damaged accessories immediately.

Use

Warning! Let the tool work at its own pace. Do not overload.

- ◆ Be prepared for a stream of sparks when the grinding or cutting disc touches the workpiece.
- ◆ Always position the tool in such a way that the guard provides optimum protection from the grinding or cutting disc.

Switching on and off

- ◆ To switch the tool on, slide the lock off switch (2) forward.
- ◆ To switch the tool off, slide the lock off switch (2) backward.

Warning! Do not switch the tool off while under load.

Warning! Always engage lock off when the tool is not in use.

Hints for optimum use

- ◆ Firmly hold the tool with one hand around the side handle and the other hand around the main handle.
- ◆ When grinding, always maintain an angle of approx. 20°- 30° between the disc and the workpiece surface.

Maintenance

Your BLACK+DECKER corded/cordless appliance/tool has been designed to operate over a long period of time with a minimum of maintenance. Continuous satisfactory operation depends upon proper tool care and regular cleaning.

Warning! Before performing any maintenance on corded/ cordless power tools:

- ◆ Switch off and unplug the appliance/tool.
- ◆ Or switch off and remove the battery from the appliance/ tool if the appliance/tool has a separate battery pack.
- ◆ Or run the battery down completely if it is integral and then switch off.
- ◆ Unplug the charger before cleaning it. Your charger does not require any maintenance apart from regular cleaning.
- ◆ Regularly clean the ventilation slots in your appliance/tool/ charger using a soft brush or dry cloth.
- ◆ Regularly clean the motor housing using a damp cloth. Do not use any abrasive or solvent-based cleaner.

Grinding and cutting accessory chart

Grinding Wheels	
	
Type 27 guard	Type 27 guard
	
Unthreaded backing flange	
	
Type 27 depressed center wheel	Type 27 hubbed wheel
	
Threaded clamp nut	

Sanding Flap Discs	
	
Type 27 guard	Type 27 guard
	
	Unthreaded backing flange
	
Hubbed sanding flap disc	non-hubbed sanding flap disc
	
	Threaded clamp nut
Type 41 Cutting Wheels	
	
Type 41 guard	Type 41 guard
	
Backing flange	Backing flange
	
Abrasive cutting wheel	Diamond cutting wheel
	
Clamp nut	Clamp nut
Wire Wheels	
	
Type 27 guard	Type 27 guard
	
3 inch wire cup brush	4 inch wire cup brush
Sanding Discs	
	
Rubber backing pad	
	
Sanding disc	
	
Threaded clamp nut	

Figure 6.1: Guide to various grinding, cutting, sanding, and wire wheels/discs compatible with the angle grinder, including guard types and clamping methods.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Tool does not start.	Battery pack not inserted correctly or discharged.	Ensure battery pack is fully inserted. Charge the battery pack.
Tool stops during operation.	Overload protection activated or battery discharged.	Reduce pressure on the tool. Allow tool to cool. Charge the battery pack.
Excessive vibration.	Disc improperly installed or damaged.	Check disc installation. Replace damaged disc.
Poor cutting/grinding performance.	Worn or incorrect disc.	Replace with a new, appropriate disc for the material.

8. TECHNICAL SPECIFICATIONS

Specification	Value
Model Number	BCG720N-XJ
Voltage	18 Volts
Max Rotation Speed	8000 rpm
Spindle Thread	M14
Product Dimensions (L x W x H)	34 x 14 x 11.5 cm
Weight	2.6 Kilograms
Power Source	Battery powered (Lithium-ion)
Material	Aluminum
Color	Orange/Black

9. WARRANTY AND SUPPORT

BLACK+DECKER provides a warranty for this product. Please refer to the warranty card included with your purchase for specific terms and conditions. For technical support, spare parts, or service, please contact your local BLACK+DECKER service center or visit the official BLACK+DECKER website.

For more information, visit the official [BLACK+DECKER website](#).