

Bosch GWX18V-50PCN

Bosch GWX18V-50PCN 18V X-LOCK EC Brushless Angle Grinder Instruction Manual

Model: GWX18V-50PCN

1. INTRODUCTION

This manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of your Bosch GWX18V-50PCN 18V X-LOCK EC Brushless Connected-Ready 4-1/2 In. – 5 In. Angle Grinder. Please read all instructions carefully before using the tool to ensure user safety and optimal performance.

The Bosch GWX18V-50PCN angle grinder is designed for various grinding and cutting applications, featuring the innovative X-LOCK mount system for rapid accessory changes and an efficient EC Brushless motor for extended runtime.

2. SAFETY INFORMATION

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.

General Power Tool Safety

- **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.
- **Electrical Safety:** Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools. Avoid body contact with earthed or grounded surfaces.
- **Personal Safety:** Always wear eye protection. Use appropriate personal protective equipment such as dust masks, non-skid safety shoes, hard hats, or hearing protection for relevant 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. Disconnect the plug from the power source and/or remove the battery pack before making any adjustments, changing accessories, or storing power tools.

Angle Grinder Specific Safety

- Always use a guard that is correctly rated for the accessory being used.
- Ensure the accessory is correctly mounted and tightened before operation.
- Do not use damaged accessories. Inspect accessories for chips, cracks, or excessive wear before each use.
- Maintain a firm grip on the tool during operation.
- Be aware of kickback, which is a sudden reaction to a pinched or snagged rotating wheel.
- Do not touch the accessory immediately after use as it will be hot.

3. PRODUCT OVERVIEW

The Bosch GWX18V-50PCN angle grinder is a robust cordless tool designed for professional use. Key components and features are illustrated below.



Figure 3.1: The Bosch GWX18V-50PCN angle grinder, showcasing its compact design and X-LOCK system.

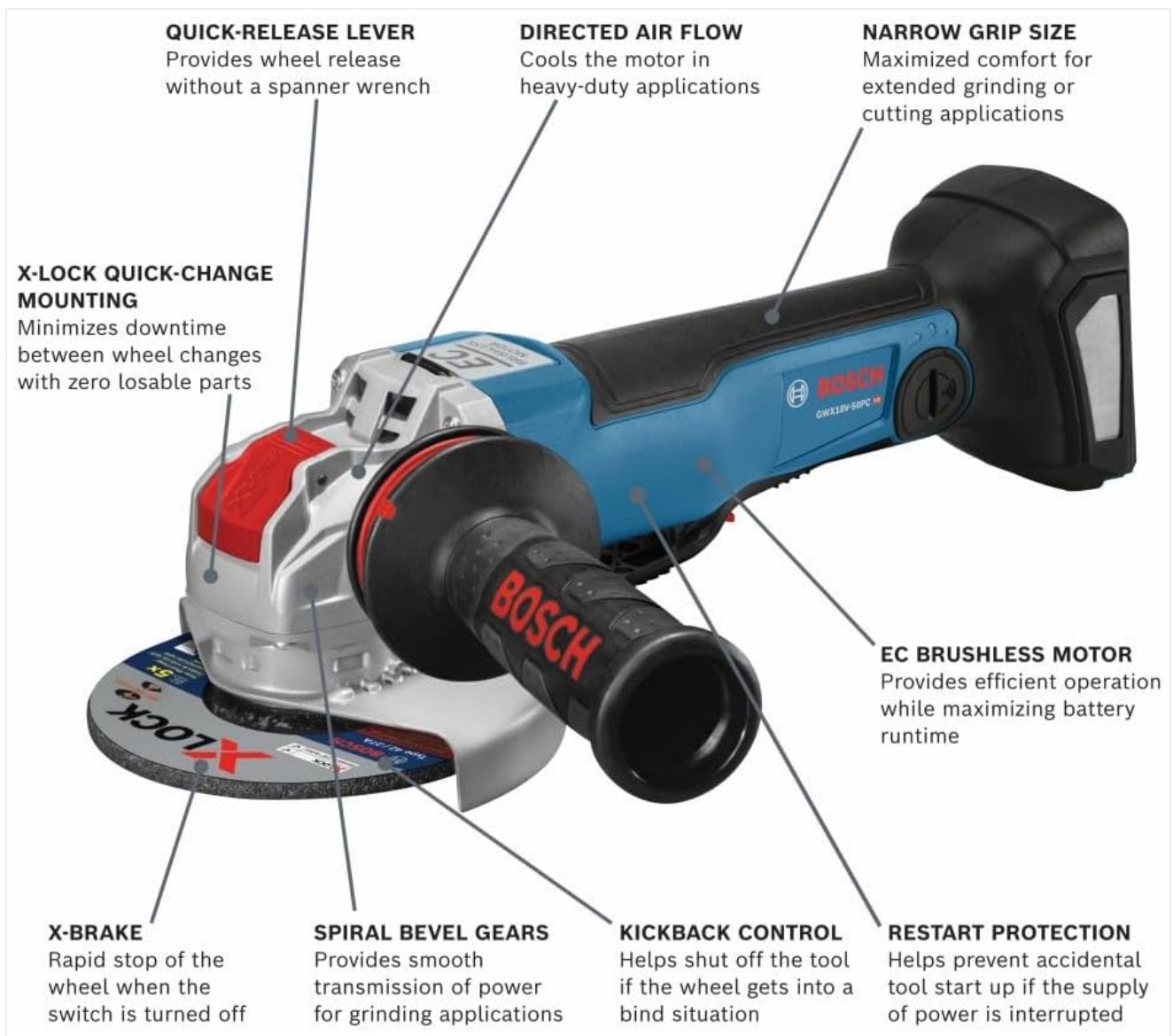


Figure 3.2: Detailed diagram highlighting key features such as the X-LOCK quick-change mounting, EC Brushless motor, X-Brake, KickBack Control, and narrow grip size.

Key Features:

- **X-LOCK Wheel Change:** Enables snap-on mounting and lever-release wheel changes, significantly faster than conventional methods.
- **EC Brushless Motor:** Provides enhanced efficiency, maximizing runtime and productivity.
- **X-Brake:** Facilitates a rapid stop of the wheel when the paddle switch is released.
- **Drop Control:** Designed to shut off the grinder if the tool is accidentally dropped.
- **KickBack Control:** Helps to shut off the tool if the wheel binds during operation.
- **Restart Protection:** Prevents accidental tool startup if power is interrupted and then restored.
- **Soft-Start Technology:** Reduces startup torque for smoother operation.
- **Connected-Ready Capability:** Compatible with an optional Bosch Connected Tool Module for Bluetooth connectivity to the Bosch Toolbox app, allowing for customized settings and feedback.

4. SETUP

4.1 Battery Installation

1. Ensure the grinder is switched off.

2. Align the battery pack with the battery port on the tool handle.
3. Slide the battery pack into the tool until it clicks securely into place.
4. To remove, press the battery release button and slide the battery out.



Figure 4.1: Image showing Bosch CORE18V 4Ah and 8Ah batteries, part of the AMPShare 18V Battery System, recommended for use with the tool.

4.2 X-LOCK Wheel Installation and Removal

The X-LOCK system allows for tool-free accessory changes.

1. Ensure the tool is switched off and the battery is removed.
2. **Installation:** Align the X-LOCK accessory with the X-LOCK mount on the grinder. Press the accessory onto the mount until an audible click is heard, indicating it is securely locked.
3. **Removal:** Pull the quick-release lever on the grinder. The accessory will disengage from the mount.

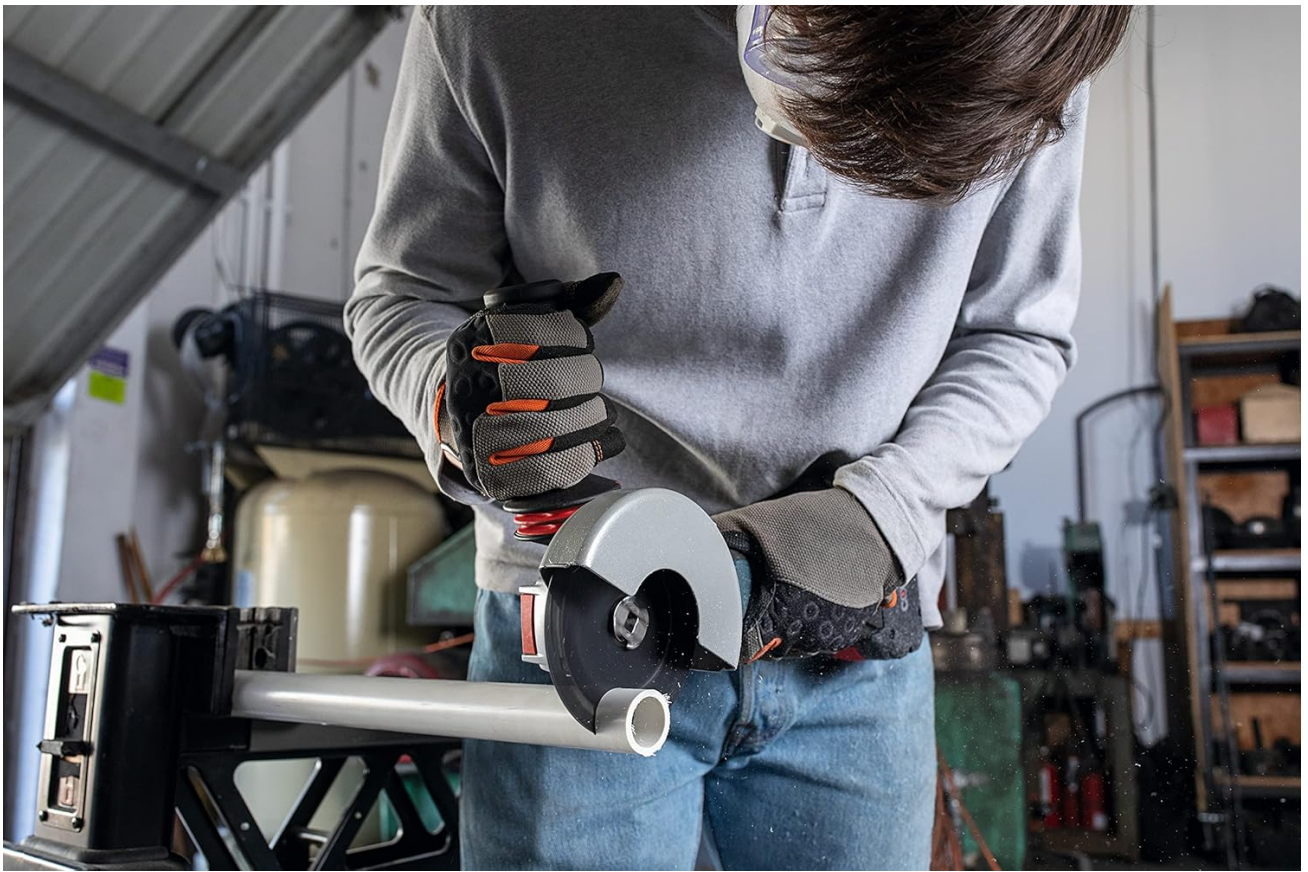


Figure 4.2: An informational graphic emphasizing the speed advantage of the X-LOCK wheel change system compared to standard 7/8 inch mounts.

4.3 Guard Adjustment

The guard protects against sparks and debris. Adjust it to suit your application.

1. Ensure the tool is switched off and the battery is removed.
2. Loosen the guard clamping mechanism (if applicable, refer to specific tool diagram).
3. Rotate the guard to the desired position to deflect sparks away from you and bystanders.
4. Securely tighten the guard clamping mechanism.

5. OPERATING INSTRUCTIONS

5.1 Powering On/Off

The GWX18V-50PCN features a no lock-on paddle switch.

1. **To Turn On:** Grip the tool firmly and depress the paddle switch.
2. **To Turn Off:** Release the paddle switch. The X-Brake feature will rapidly stop the wheel.

5.2 Grinding and Cutting Techniques

Always wear appropriate personal protective equipment, including eye protection, hearing protection, and gloves.

- Allow the tool to reach full speed before contacting the workpiece.
- Apply light, even pressure. Do not force the tool.
- For grinding, maintain a small angle (10-15 degrees) between the wheel and the workpiece.
- For cutting, use a cutting disc and make straight cuts. Avoid bending or twisting the disc.



Figure 5.1: An individual wearing safety gear, including a face shield and gloves, operating the Bosch angle grinder to grind a metal workpiece.



Figure 5.2: An individual wearing safety glasses and gloves using the Bosch angle grinder to cut a metal pipe.

5.3 Advanced Safety Features

- **KickBack Control:** If the tool senses a sudden bind, it will automatically shut off to reduce the risk of injury.
- **Drop Control:** The tool is designed to detect if it has been dropped and will shut off to prevent uncontrolled operation.
- **Restart Protection:** If the battery is removed and reinserted while the paddle switch is depressed, the tool will not start until the switch is released and re-engaged.

5.4 Connected-Ready Functionality

The GWX18V-50PCN is connected-ready, meaning it can be paired with an optional Bosch Connected Tool Module (sold separately) to link with the free Bosch Toolbox app on a compatible device. This allows for customization of tool settings and provides diagnostic feedback.

6. MAINTENANCE

6.1 Cleaning

- Regularly clean the ventilation openings of the tool to prevent overheating.
- Use a soft brush or compressed air to remove dust and debris. Do not use water or chemical cleaners.

6.2 Inspection

- Before each use, inspect the tool for any damage, loose parts, or excessive wear.
- Check the condition of the guard and ensure it is securely attached.
- Inspect accessories for damage before mounting.

6.3 Storage

- Store the tool in a dry, secure location out of reach of children.
- Remove the battery pack from the tool before storage.

7. TROUBLESHOOTING

This section addresses common issues you might encounter with your angle grinder.

Problem	Possible Cause	Solution
Tool does not start	Battery not charged or improperly inserted	Charge battery or re-insert securely.
Tool stops during operation	Overload, KickBack Control activated, or battery low	Reduce pressure, check for binding, or replace/charge battery.
Wheel not securely attached	X-LOCK accessory not fully engaged	Ensure audible click when installing X-LOCK accessory.
Excessive vibration	Damaged or unbalanced accessory	Replace the accessory.

8. SPECIFICATIONS

Feature	Detail
Model Number	GWX18V-50PCN
Brand	Bosch
Voltage	18 Volts
Wattage	634.5 watts
Maximum Rotational Speed	9000 RPM
Horsepower	850 Watts
Product Dimensions	12.5"L x 5.6"W x 4.65"H
Item Weight	4.5 Pounds
Power Source	Battery Powered
Material	Plastic
Included Components	(1) GWX18V-50PC 18V X-LOCK EC Brushless Connected-Ready 4-1/2 In. – 5 In. Angle Grinder with No Lock-On Paddle Switch (Bare Tool)

9. WARRANTY AND SUPPORT

9.1 Warranty Information

Bosch 18V cordless power tools are covered by a five-year limited warranty. For detailed information regarding the warranty terms and conditions, please visit the official Bosch Power Tool Warranty page or contact Bosch customer service.



Figure 9.1: Graphic detailing the Bosch 18V 5-year limited warranty, effective June 1, 2023, with a link for more details.

For details, visit: <https://rb-pt.io/PowerToolWarranty>

9.2 Customer Support

For technical assistance, service, or parts, please contact Bosch customer support.

Phone: 1-877-BOSCH99

Online: Visit the official Bosch website or your local authorized service center.