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> BOSCH GWX14-50PBD 5 In. X-LOCK™ Angle Grinder - Instruction Manual

## BOSCH GWX14-50PBD

# BOSCH GWX14-50PBD 5 In. X-LOCK™ Angle Grinder

Model: GWX14-50PBD | Brand: BOSCH

## PRODUCT OVERVIEW

The Bosch GWX14-50PBD 5 In. X-LOCK™ angle grinder is a compact yet powerful tool designed for grinding and cutting applications. It features a robust 13-amp motor delivering 11,500 rpm, ensuring high performance and productivity. The innovative X-LOCK™ mount facilitates wheel changes up to five times faster than traditional interfaces. Its lightweight design and ergonomic paddle switch enhance control and comfort during extended use. Safety features include a brake system for quick wheel stops, KickBack Control, soft start, overload and restart protection, and drop control. This grinder is compatible with existing Bosch grinding guards and shrouds for versatile metal and concrete applications.



Image: The BOSCH GWX14-50PBD 5 In. X-LOCK™ Angle Grinder, showcasing its compact design and X-LOCK™ interface.

## KEY FEATURES

- **POWERFUL 13-AMP MOTOR:** Delivers 11,500 rpm in a compact design for efficient material removal.
- **KICKBACK CONTROL:** Automatically shuts off the tool if the wheel binds, enhancing user safety.
- **RESTART PROTECTION:** Prevents accidental startup after a power interruption, ensuring safety.
- **SOFT START:** Reduces initial impact for a smooth and controlled startup.
- **OVERLOAD PROTECTION:** Safeguards the motor from overheating and damage during heavy use.
- **BRAKE SYSTEM:** Quickly stops the wheel upon paddle release, improving safety and control.
- **DROP CONTROL:** Turns off the tool if accidentally dropped, preventing potential injury or damage.
- **X-LOCK INTERFACE:** Enables snap-on mounting and lever-release for up to 5X faster accessory changes.
- **NO LOCK ON PADDLE SWITCH:** Features a larger design for versatile handling and enhanced control, requiring continuous pressure for operation.
- **VARIABLE SPEED SELECTION:** Allows matching the tool speed to the specific application for optimal results.



Image: Detailed view of the BOSCH GWX14-50PBD Angle Grinder highlighting its key features such as X-LOCK™ interface, anti-vibration handle, and paddle switch.

## 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 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 expose power tools to rain or wet conditions.
- **Personal Safety:** Always wear eye protection (safety glasses or goggles) and hearing protection. Use a dust mask if operating in dusty conditions. Dress properly; avoid loose clothing or jewelry.
- **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 before making any adjustments, changing accessories, or storing power tools.

## Angle Grinder Specific Safety

- **Guard Use:** Always use the appropriate guard for the accessory and operation. Ensure the guard is securely fastened and positioned for maximum safety.
- **Accessory Compatibility:** Only use X-LOCK™ accessories with this grinder. Ensure the accessory is correctly installed and rated for the grinder's speed.
- **Kickback Prevention:** Maintain a firm grip on the tool with both hands. Be aware of potential kickback when the accessory snags or binds.
- **Workpiece Security:** Secure the workpiece to prevent movement during operation. Never hold small workpieces in your hand.
- **Sparks and Debris:** Be aware of sparks and flying debris. Ensure no flammable materials are in the work area.

## COMPONENTS INCLUDED

Your BOSCH GWX14-50PBD Angle Grinder package includes the following items:

- (1) GWX14-50PBD 5 In. X-LOCK™ Angle Grinder with Brake and No Lock-On Paddle
- (1) Side Handle
- (1) Type A (41/1A) Cutting Wheel Guard
- (1) Type B (27) Grinding Wheel Guard



Image: The BOSCH GWX14-50PBD Angle Grinder shown with its side handle and two types of wheel guards.

## SETUP

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### Attaching the Side Handle

The anti-vibration side handle can be attached to either side of the grinder head for optimal comfort and control, depending on your application and handedness. Screw the side handle firmly into the threaded opening on the gear housing until it is secure.



Image: A hand attaching the anti-vibration side handle to the BOSCH GWX14-50PBD Angle Grinder.

## Installing/Changing X-LOCK™ Accessories

The X-LOCK™ system allows for quick and tool-free accessory changes. To install an X-LOCK™ disc:

1. Ensure the grinder is unplugged from the power source.
2. Align the X-LOCK™ accessory with the X-LOCK™ interface on the grinder.
3. Press the accessory onto the interface until it audibly clicks into place. Gently pull on the accessory to ensure it is securely locked.

To remove an X-LOCK™ disc:

1. Ensure the grinder is unplugged and the disc has stopped rotating.
2. Pull the X-LOCK™ release lever on the grinder head. The accessory will disengage.

**Important Note: This grinder is designed exclusively for use with X-LOCK™ compatible accessories. Standard angle grinder discs are not compatible.**



Image: A close-up view of the BOSCH X-LOCK™ interface, showing the mechanism for quick accessory changes.

## Adjusting the Wheel Guard

The wheel guard can be rotated to provide optimal protection for your specific application. To adjust the guard:

1. Ensure the grinder is unplugged.
2. Loosen the guard clamping screw or lever (if applicable) on the guard.
3. Rotate the guard to the desired position.
4. Securely tighten the clamping screw or lever to lock the guard in place.



Image: A hand adjusting the position of the wheel guard on the BOSCH GWX14-50PBD Angle Grinder.

## OPERATION

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### Powering On/Off

The GWX14-50PBD features a no lock-on paddle switch for enhanced control and safety. To operate the grinder:

1. Ensure the tool is plugged into a suitable power outlet.
2. Grip the tool firmly with both hands.
3. Depress the paddle switch to start the grinder. The tool will only operate while the paddle is held down.
4. Release the paddle switch to turn off the grinder. The brake system will quickly stop the accessory.

### Grinding and Cutting Techniques

Always allow the grinder to reach full speed before contacting the workpiece. Apply light, even pressure and let the tool do the work. For grinding, maintain a slight angle (typically 15-30 degrees) between the disc and the workpiece. For cutting, hold the disc perpendicular to the workpiece and make straight, controlled passes. Avoid twisting or binding the disc in the cut.



Image: The BOSCH GWX14-50PBD Angle Grinder in action, cutting a metal workpiece with sparks visible.



Image: A close-up of the BOSCH GWX14-50PBD Angle Grinder being used for grinding, showing the precise control.

### **Variable Speed Selection**

The variable speed selection allows you to adjust the RPM to match the specific material and application. Refer to the tool's markings or manual for recommended speed settings for different tasks (e.g., lower speeds for polishing or delicate work, higher speeds for aggressive grinding or cutting).

## **MAINTENANCE**

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## Cleaning

Regular cleaning helps maintain the performance and lifespan of your grinder. After each use, wipe down the tool with a clean, damp cloth. Pay special attention to the air vents to ensure they are free from dust and debris, which can cause overheating. The GWX14-50PBD features a removable dust filter for easy cleaning.



**BOSCH**

Corded Tool



**LIMITED  
WARRANTY**

**1** YEAR  
Tool

Effective 6/1/23, all 18V products are covered by this updated warranty. For updated terms, visit <https://rb-pt.io/PowerToolWarranty> or call 1-877-BOSCH99

Image: A hand removing the dust filter from the rear of the BOSCH GWX14-50PBD Angle Grinder for cleaning.

## Inspection

Periodically inspect the power cord for damage. Check the side handle and guards for secure attachment. Examine X-LOCK™ accessories for wear or damage before use. Replace worn or damaged parts immediately.

## Storage

Store the grinder in a dry, secure location out of reach of children. Protect it from direct sunlight and extreme temperatures. If storing for extended periods, ensure it is clean and free of debris.

## TROUBLESHOOTING

Problem	Possible Cause	Solution
Grinder does not start	No power supply; Restart Protection activated; Paddle switch not fully depressed.	Check power connection; Disconnect and reconnect power to reset; Ensure paddle switch is fully depressed.
Grinder stops during operation	Overload Protection activated; KickBack Control activated; Drop Control activated.	Reduce load; Check for binding accessory; Ensure tool was not dropped. Allow motor to cool if overheated.
Excessive vibration	Damaged or improperly installed accessory; Loose side handle.	Inspect and replace accessory if damaged; Reinstall accessory correctly; Tighten side handle.
Reduced performance/RPM	Overload; Clogged air vents.	Reduce pressure on workpiece; Clean air vents and dust filter.

## TECHNICAL SPECIFICATIONS

Specification	Value
Brand	BOSCH
Model Number	GWX14-50PBD
Power Source	Corded Electric
Voltage	110 Volts (AC)
Wattage	1430 watts
Amperage	13 Amps
Maximum Rotational Speed	11,500 RPM
Disc Diameter	5 Inches
Item Weight	5.3 Pounds
Product Dimensions	15.91"L x 5.5"W x 6.2"H
Material	Metal
Color	Blue

## WARRANTY INFORMATION

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The BOSCH GWX14-50PBD 5 In. X-LOCK™ Angle Grinder comes with a **1-Year Limited Tool Warranty**. This warranty is effective for products purchased on or after June 1, 2023.

For the most updated terms and conditions of the warranty, please visit the official Bosch Power Tool Warranty page or contact Bosch customer support.



Image: Graphic indicating BOSCH's 1-Year Limited Tool Warranty for corded tools, effective June 1, 2023.

## CUSTOMER SUPPORT

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For further assistance, technical support, or to inquire about replacement parts, please contact BOSCH customer service or visit their official website.

You can also visit the **BOSCH Brand Store on Amazon** for product information and resources.

For warranty inquiries, you may call 1-877-BOSCH99 or visit <https://rb-pt.io/PowerToolWarranty>.