

BOSCH GWS 21-230H

Bosch GWS 21-230 H Professional 9-inch Angle Grinder User Manual

INTRODUCTION

This manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of your Bosch GWS 21-230 H Professional 9-inch Angle Grinder. Please read all instructions carefully before using the tool and retain this manual for future reference. Proper use and adherence to safety guidelines will ensure optimal performance and extend the lifespan of your angle grinder.

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.

General Power Tool Safety Warnings

- **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. Avoid body contact with earthed or grounded surfaces.
- **Personal Safety:** Always wear eye protection. Use personal protective equipment such as dust masks, non-skid safety shoes, hard hats, or hearing protection when appropriate. Stay alert, watch what you are doing, and use common sense when operating a power tool.

Angle Grinder Specific Safety Warnings

- **Guard Safety:** Always ensure the guard is securely attached and positioned for maximum safety. Never operate the tool without the guard.
- **Disc Selection:** Use only grinding discs that are specifically designed for angle grinders and have the correct diameter and bore size. Ensure the disc's maximum RPM rating is equal to or greater than the grinder's no-load speed.
- **Starting the Tool:** Ensure the disc is clear of the workpiece before switching on the tool. Allow the

tool to reach full speed before applying it to the workpiece.

- **Kickback Prevention:** Always hold the tool firmly with both hands. Be aware of potential kickback, which can occur if the disc snags or binds.
- **Material Suitability:** Do not use the angle grinder for purposes other than grinding or cutting materials it is designed for.

COMPONENTS AND PARTS IDENTIFICATION

Familiarize yourself with the key components of your Bosch GWS 21-230 H Angle Grinder for safe and efficient operation.



An image showing the Bosch GWS 21-230 H Professional 9-inch Angle Grinder. The tool is blue and silver, featuring a large grinding disc, a main body with the Bosch logo, and an auxiliary handle attached.

1. Main Handle
2. Auxiliary Handle (Side Handle)
3. Protective Guard
4. Spindle Lock Button
5. On/Off Switch
6. Grinding/Cutting Disc
7. Spindle
8. Flange Nut

SETUP

Attaching the Auxiliary Handle

1. Unplug the tool from the power source.
2. Screw the auxiliary handle into one of the threaded holes on the gear head. The handle can be positioned on either the left or right side, depending on user preference and application.
3. Ensure the handle is tightened securely.

Mounting the Protective Guard

1. Unplug the tool from the power source.
2. Place the protective guard onto the collar of the gear head.
3. Rotate the guard to the desired position to protect against sparks and debris.
4. Tighten the clamping screw on the guard firmly to secure it in place.

Mounting/Changing the Grinding Disc

1. Unplug the tool from the power source.
2. Press and hold the spindle lock button to prevent the spindle from rotating.
3. If a disc is already installed, use the provided spanner wrench to loosen and remove the flange nut. Remove the old disc.
4. Place the new grinding disc onto the spindle, ensuring it sits correctly on the inner flange.
5. Screw on the flange nut and tighten it firmly with the spanner wrench while holding the spindle lock button.
6. Release the spindle lock button.

OPERATING INSTRUCTIONS

Switching On/Off

- **To Switch On:** Push the On/Off switch forward. For continuous operation, push the switch forward and then press it down until it locks.
- **To Switch Off:** For continuous operation, press the rear part of the On/Off switch. For momentary operation, release the switch.

Working with the Angle Grinder

- Always hold the angle grinder firmly with both hands.
- Allow the disc to reach full operating speed before making contact with the workpiece.
- Apply moderate pressure. Excessive pressure can overload the motor and damage the disc.
- Maintain a consistent angle between the disc and the workpiece for even material removal.
- When cutting, ensure the cutting line is clear and the workpiece is stable. Avoid binding the disc in the cut.
- After use, switch off the tool and wait for the disc to stop completely before setting it down.

MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your angle grinder.

Cleaning

- Always unplug the tool before cleaning.
- Keep the ventilation openings clean to prevent overheating. Use compressed air to blow out dust and debris from the motor housing.
- Clean the tool casing with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners.

General Inspection

- Regularly inspect the power cord for damage. If damaged, have it replaced by a qualified technician.

- Check the auxiliary handle and guard for secure attachment and any signs of damage.
- Ensure the spindle lock mechanism operates smoothly.

TROUBLESHOOTING

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

Problem	Possible Cause	Solution
Tool does not start	No power supply; Faulty switch; Damaged power cord	Check power outlet and cord connection; Test switch; Have cord inspected/replaced by service center.
Excessive vibration	Damaged or unbalanced disc; Loose flange nut	Replace disc; Tighten flange nut securely.
Overheating	Blocked ventilation slots; Excessive load	Clean ventilation slots; Reduce pressure on workpiece; Allow tool to cool.
Spindle lock not engaging	Debris in mechanism; Worn parts	Clean around spindle lock; If issue persists, seek professional service.

TECHNICAL SPECIFICATIONS

Detailed specifications for the Bosch GWS 21-230 H Professional 9-inch Angle Grinder.

Specification	Value
Model	GWS 21-230H
Rated Power Input	2000 W
No-load Speed	6500 rpm
Disc Diameter	230 mm (9 inches)
Weight (without cable)	5 kg
Power Source	Corded Electric
Material	Metal

WARRANTY AND CUSTOMER SUPPORT

Bosch power tools are manufactured to the highest quality standards. For information regarding warranty terms and conditions, or for technical assistance and service, please refer to the warranty card included with your product or visit the official Bosch website for your region. You can also contact authorized Bosch service centers for professional support and genuine spare parts.

For further assistance, please visit the [BOSCH Store on Amazon](#).