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› BLACK+DECKER BEG220KA5-QS Corded Angle Grinder User Manual

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Model: BEG220KA5-QS

INTRODUCTION

This manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of your BLACK+DECKER BEG220KA5-QS Corded Angle Grinder. Please read these instructions carefully before using the tool and retain them for future reference.

GENERAL SAFETY INSTRUCTIONS

Always observe basic safety precautions to reduce the risk of fire, electric shock, and personal injury. Failure to follow these instructions may result in serious injury.

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. Power tools create sparks which may ignite the dust or fumes.
- Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.

Electrical Safety

- Power tool plugs must match the outlet. Never modify the plug in any way.
- 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.
- Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.

Personal Safety

- Always wear eye protection. Use safety glasses, goggles, or a face shield.
- Wear appropriate personal protective equipment (PPE) such as dust masks, non-skid safety shoes, hard hats, or hearing protection.
- Dress properly. Do not wear loose clothing or jewelry. Keep your hair and clothing away from moving parts.
- Stay alert, watch what you are doing, and use common sense when operating a power tool.

Angle Grinder Specific Safety Warnings

- This power tool is intended to function as a grinder or cut-off tool. Read all safety warnings, instructions, illustrations, and specifications provided with this power tool.
- Do not use accessories that are not specifically designed and recommended by the tool manufacturer.
- Always ensure the accessory is correctly mounted and tightened before use.
- Never use a damaged accessory. Inspect accessories for chips, cracks, or excessive wear before each use.
- Maintain a firm grip on the power tool during operation.
- Keep hands away from the rotating accessory.
- Be aware of kickback, which is a sudden reaction to a pinched or snagged rotating wheel.
- Always position yourself so that the sparks and debris are directed away from your body and flammable materials.

PRODUCT COMPONENTS

Familiarize yourself with the parts of your BLACK+DECKER BEG220KA5-QS Angle Grinder.



Image: The BLACK+DECKER BEG220KA5-QS Angle Grinder, showing the main body, side handle, and protective guard.

- **Main Body:** Houses the motor and internal mechanisms.

- **Side Handle:** Provides additional grip and control. Can be mounted in 3 positions.
- **Protective Guard:** Shields the user from sparks and debris. Tool-free adjustable.
- **Spindle Lock Button:** For easy accessory changes.
- **On/Off Switch:** Side safety switch for operation.
- **Power Cord:** For connecting to an electrical outlet.

SETUP AND ASSEMBLY

Before operating the angle grinder, ensure it is properly assembled and configured for your task.

Attaching the Side Handle

1. Unscrew the side handle from its packaging.
2. Thread the side handle into one of the three available mounting holes on the gear housing.
3. Tighten securely by hand.
4. Choose the position that offers the best control and comfort for your application.

Adjusting the Protective Guard

The protective guard can be adjusted quickly without tools.

1. Ensure the tool is unplugged from the power source.
2. Press the guard release lever (if present, or rotate the guard until it clicks into position).
3. Rotate the guard to the desired position to deflect sparks and debris away from you.
4. Release the lever to lock the guard in place. Ensure it is firmly secured.

Installing/Changing Grinding or Cutting Discs

The BEG220KA5-QS features a tool-free accessory change system.

1. **Disconnect Power:** Always unplug the grinder before changing accessories.
2. **Press Spindle Lock:** Depress and hold the spindle lock button.
3. **Remove Outer Flange Nut:** Rotate the outer flange nut counter-clockwise until it loosens and can be removed.
4. **Place Disc:** Position the new grinding or cutting disc onto the inner flange, ensuring it sits flat.
5. **Reattach Outer Flange Nut:** Screw the outer flange nut back on clockwise.
6. **Tighten:** Continue holding the spindle lock button and tighten the outer flange nut firmly by hand. Do not overtighten.
7. **Verify:** Release the spindle lock and ensure the disc is securely mounted and rotates freely without wobble.



Image: An angle grinder in use, cutting a metal pipe, demonstrating the sparks generated during operation. Always wear appropriate safety gear.

OPERATING INSTRUCTIONS

Follow these steps for safe and effective operation of your angle grinder.

Before Starting

- Ensure all safety guards are in place and properly adjusted.
- Wear appropriate personal protective equipment (PPE), including eye protection, hearing protection, gloves, and a dust mask.
- Secure the workpiece firmly to prevent movement during operation.
- Check the power cord for any damage.

Starting and Stopping the Tool

1. **To Start:** Plug the tool into a suitable power outlet. Slide the side safety switch forward to the "ON" position. The tool features a soft start system to prevent sudden jolts.
2. **To Stop:** Slide the side safety switch backward to the "OFF" position.
3. Always wait for the disc to come to a complete stop before setting the tool down.

Grinding and Cutting Techniques

- **Grinding:** Hold the grinder at a 15-30 degree angle to the workpiece. Apply moderate pressure and move the tool smoothly across the surface.
- **Cutting:** Hold the grinder perpendicular (90 degrees) to the workpiece. Allow the disc to do the work; do not force it. Make shallow passes rather than trying to cut through thick material in one go.
- Maintain a firm grip with both hands on the tool.
- Avoid applying excessive pressure, which can cause the disc to bind or break.
- Be mindful of sparks and debris, directing them away from yourself and others.



Image: A person using the angle grinder to cut a ceramic tile, demonstrating precision work. Ensure the workpiece is stable.



Image: An angle grinder being used to grind a metal surface, possibly a shovel, showing the removal of material. Always secure the item being worked on.

MAINTENANCE

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

Cleaning

- **Always unplug the tool before cleaning.**
- Keep the ventilation slots clean to prevent motor overheating. Use a soft brush or compressed air to remove dust and debris.
- Wipe the tool's exterior with a damp cloth. Do not use harsh chemicals or abrasive cleaners.
- Regularly inspect the power cord for cuts, abrasions, or damage. If damaged, have it repaired by a qualified service technician.

Disc Replacement

Replace grinding and cutting discs when they become worn, chipped, or damaged. Refer to the "Installing/Changing Grinding or Cutting Discs" section for detailed instructions.

Storage

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

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. Overload protection activated.	Check power outlet and cord. Contact service center. Unplug, allow to cool, then restart.
Excessive vibration.	Damaged or improperly mounted disc. Worn bearings.	Inspect and replace disc if damaged; ensure it's securely mounted. Contact service center.
Tool overheats.	Blocked ventilation slots. Continuous heavy use.	Clean ventilation slots. Allow tool to cool down periodically during heavy use.
Sparks are excessive or unusual.	Incorrect disc for material. Improper grinding/cutting angle.	Ensure the correct disc type is used for the material. Adjust grinding/cutting angle.

If you encounter problems not listed here or if solutions do not resolve the issue, please contact BLACK+DECKER customer support or an authorized service center.

TECHNICAL SPECIFICATIONS

Feature	Specification
Model Number	BEG220KA5-QS
Brand	BLACK+DECKER
Power (Wattage)	550 Watts (Rated), 900 Watts (Horsepower equivalent)
Voltage	550 Volts (AC)
Max Rotation Speed	12,000 rpm
Disc Diameter	125 mm (5 inches)
Weight	3 Kilograms
Dimensions (L x W x H)	41 x 21 x 20 cm

Feature	Specification
Included Components	1 Diamond Disc, 4 Cutting Discs, Angle Grinder
Special Features	Soft Start System, Tool-free Adjustable Guard, Side Safety Switch, 3-Position Side Handle

WARRANTY AND SUPPORT

BLACK+DECKER products are manufactured to high-quality standards and are guaranteed for a specific period from the date of purchase. For detailed warranty information, including terms and conditions, please refer to the warranty card included with your product or visit the official BLACK+DECKER website.

For technical assistance, spare parts, or service, please contact your local BLACK+DECKER service center or customer support. Contact information can typically be found on the product packaging or the official brand website.

Website: www.blackanddecker.com

