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› [Ingco](#) /

› [Ingco 20V Cordless Brushless Angle Grinder 115mm, Model CAGLI21154 User Manual](#)

Ingco CAGLI21154

Ingco 20V Cordless Brushless Angle Grinder 115mm

MODEL: CAGLI21154 - USER MANUAL

Introduction

The Ingco CAGLI21154 is a powerful and versatile cordless angle grinder featuring a brushless motor. Designed for various cutting, grinding, and polishing tasks, it offers the convenience of cordless operation combined with enhanced efficiency and longer runtime. Its 115mm disc size provides broad cutting capacity for a range of materials including metal, stone, and concrete. This tool is compatible with the Ingco 20V lithium-ion battery system (battery and charger sold separately), allowing seamless integration with other Ingco cordless tools. Lightweight and well-balanced, it ensures excellent control and maneuverability, reducing operator fatigue during extended use. Built with a robust and durable design, this angle grinder is engineered to withstand demanding applications, delivering reliable performance consistently.

Safety Instructions

Always prioritize safety when operating power tools. Failure to follow these instructions may result in electric shock, fire, and/or 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.
- **Electrical Safety:** Avoid body contact with earthed or grounded surfaces. 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 (safety goggles) and hearing protection. Use a dust mask if operations create dust. Dress properly; avoid loose clothing or jewelry. Keep hair, clothing, and gloves away from moving parts.
- **Tool Use and Care:** Do not force the power tool. Use the correct power tool for your application. Disconnect the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools.
- **Specific Angle Grinder Safety:** Ensure the guard is properly positioned and secured before operation. Use only discs that are rated for the speed of the grinder. Never use a damaged or incorrect disc. Hold the tool firmly with both hands.

Product Overview

The Ingco CAGLI21154 Cordless Brushless Angle Grinder is designed for efficiency and durability. Key components include the main body with the brushless motor, the spindle for attaching grinding/cutting discs, the protective guard, and the auxiliary handle for improved control. The tool operates on a 20V battery system (sold separately).



Figure 1: Ingco 20V Cordless Brushless Angle Grinder (Battery and charger sold separately).

Setup

1. **Battery Installation:** Ensure the battery is fully charged. Align the battery pack with the battery port on the tool handle and slide it in until it clicks securely into place. To remove, press the release button and slide the battery out.
2. **Auxiliary Handle Attachment:** Screw the auxiliary handle into one of the threaded holes on the gear housing. Ensure it is tightened securely for safe operation.
3. **Guard Adjustment:** Loosen the guard clamping screw. Position the protective guard to shield you from sparks and debris during operation. Tighten the clamping screw firmly.
4. **Disc Attachment:** Press and hold the spindle lock button. Use the provided wrench to loosen the outer flange nut. Place the desired 115mm grinding or cutting disc onto the spindle, ensuring it sits correctly on the inner flange. Re-attach and tighten the outer flange nut firmly with the wrench while holding the spindle lock button. **Warning:** Always ensure the disc is compatible with the tool's specifications and is not damaged.

Operating Instructions

Before starting, ensure all safety precautions are observed and the work area is clear.

1. **Starting the Tool:** Hold the angle grinder firmly with both hands. Press the ON/OFF switch to start the tool.

Allow the disc to reach full speed before making contact with the workpiece.

2. **Cutting:** For cutting, hold the tool at a slight angle (15-30 degrees) to the workpiece. Apply steady, even pressure. Do not force the tool; let the disc do the work. Move the tool smoothly along the cutting line.
3. **Grinding:** For grinding, hold the tool at a shallow angle (5-10 degrees) to the workpiece. Move the tool back and forth across the surface to achieve an even finish. Avoid concentrating pressure in one spot.
4. **Stopping the Tool:** Release the ON/OFF switch. Wait for the disc to come to a complete stop before setting the tool down.

Important: Never operate the tool without the protective guard. Always wear appropriate personal protective equipment (PPE).

Maintenance

Regular maintenance ensures optimal performance and extends the life of your tool.

- **Cleaning:** After each use, clean the tool with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners. Keep the ventilation openings clear of dust and debris to prevent overheating.
- **Disc Inspection:** Regularly inspect grinding and cutting discs for wear, cracks, or damage. Replace worn or damaged discs immediately.
- **Battery Care:** Store batteries in a cool, dry place away from direct sunlight. Do not store fully discharged batteries for extended periods.
- **Storage:** Store the angle grinder in a dry, secure location out of reach of children. Disconnect the battery pack before storage.

Troubleshooting

Problem	Possible Cause	Solution
Tool does not start	Battery not charged or improperly installed.	Ensure battery is fully charged and correctly inserted.
Reduced power/performance	Low battery charge; worn or incorrect disc.	Recharge battery; replace disc if worn or unsuitable.
Excessive vibration	Damaged or improperly mounted disc; loose auxiliary handle.	Inspect and replace disc if damaged. Ensure disc and handle are securely fastened.
Overheating	Blocked ventilation slots; continuous heavy use.	Clean ventilation slots. Allow tool to cool down during prolonged use.

Specifications

Feature	Detail
Model Number	CAGLI21154
Brand	Ingco
Voltage	20 Volts

Feature	Detail
Disc Diameter	115 mm
Motor Type	Brushless
Maximum Rotational Speed	9000 RPM
Power Source	Battery Powered (Battery and charger sold separately)
Material	Metal
Item Weight	209 g
Product Dimensions	10 x 20 x 37 cm

Warranty and Support

For warranty information, please refer to the warranty card included with your purchase or visit the official Ingco website. Keep your proof of purchase for any warranty claims.

For technical support, spare parts, or service inquiries, please contact your local Ingco dealer or authorized service center. Contact details can typically be found on the Ingco website or in your product packaging.

This manual is intended to provide general guidance. Specific warranty terms and support procedures may vary by region.