

Ingco CAGLI201158

Ingco 20V Cordless Brushless Angle Grinder

MODEL: CAGLI201158

Brand: Ingco

Important Safety Instructions

Always follow basic safety precautions when using this power tool to reduce the risk of fire, electric shock, and personal injury. Read all instructions before operating this product.

- **Work Area Safety:** Keep your 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.
- **Personal Safety:** Always wear eye protection. Use hearing protection when operating for extended periods. Dress properly; avoid loose clothing or jewelry. Secure long hair.
- **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.
- **Angle Grinder Specific Safety:** Ensure the disc is correctly mounted and tightened before use. Always use the protective guard. Do not use damaged or incorrect discs. Maintain a firm grip on the tool with both hands.

Product Overview

The Ingco 20V Cordless Brushless Angle Grinder (Model CAGLI201158) is designed for various grinding, cutting, and polishing tasks. It features a robust design and user-friendly controls.

Key Features:

- **Design:** Aluminum alloy head structure, brushless motor, with dust-proof body and internal heat dissipation system for longer service life.
- **Versatility:** Features a self-locking function and an anti-slip rubber side handle to reduce vibration during operation for better control.
- **Safety:** Double insulation prevents touching live parts of the tool; an anti-rotation protective guard provides a high level of user protection.
- **Convenience:** Two-speed regulation (3000/8500 RPM); portable cordless design, easy to carry and operate.

Suitable for polishing stainless steel security windows, iron slag, cutting iron bars, ceramic tiles, marble, and other materials.

Components Diagram:



This diagram illustrates the main components of the Ingco 20V Cordless Brushless Angle Grinder, highlighting features such as the dustproof screen, two-speed regulation switch, aluminum alloy gearbox, brushless motor, metal wheel guard, auxiliary handle, and the ergonomically designed body. It also indicates the battery slot (battery not included).

Specifications

Voltage	20 Volts
No-load Speed	3000 / 8500 RPM
Disc Diameter	115 mm
Spindle Thread	M14
Power Source	Battery Powered
Wattage	800 Watts
Item Weight	1.88 kg

Product Dimensions	10 x 20 x 37 cm
Included Components	1 Angle Polishing Tool, 1 Spanner Wrench
Batteries Required	No (Tool Body Only)

Parameter Information

Voltage:20V
No-load speed:3000/8500/min
Disc diameter:115mm
Spindle thread:M14
Without disc
With 1pcs 4.0Ah battery
With 1pcs fast charger



This image displays the key technical specifications of the Ingco Angle Grinder, including its 20V voltage, 3000/8500 RPM no-load speed, 115mm disc diameter, and M14 spindle thread. It also provides approximate dimensions of the tool.

Setup

Before initial use, ensure all components are present and undamaged. This product is sold as a 'Tool Body Only' and does not include a battery or charger.

BATTERY & CHARGER

NOT INCLUDED



P20S Same Battery 200+ tools

This image explicitly states that the battery and charger are not included with the Ingco Angle Grinder, indicating that these items must be purchased separately.

1. **Battery Installation (Sold Separately):** Insert a compatible Ingco 20V battery pack into the battery slot until it clicks securely into place. Ensure the battery is fully charged using a compatible Ingco charger.
2. **Auxiliary Handle Attachment:** Screw the auxiliary handle into one of the threaded holes on the grinder's gearbox housing. Tighten it firmly for secure operation.
3. **Protective Guard Adjustment:** Loosen the guard clamping screw, adjust the protective guard to cover the disc as much as possible, ensuring it is positioned to deflect sparks away from you. Tighten the screw firmly.
4. **Disc Installation:**
 - Press and hold the spindle lock button.
 - Place the inner flange onto the spindle.
 - Mount the grinding or cutting disc onto the spindle, ensuring it sits flush against the inner flange.
 - Thread the outer flange (nut) onto the spindle and tighten it firmly using the provided spanner wrench while holding the spindle lock button.
 - Release the spindle lock.

Operating Instructions

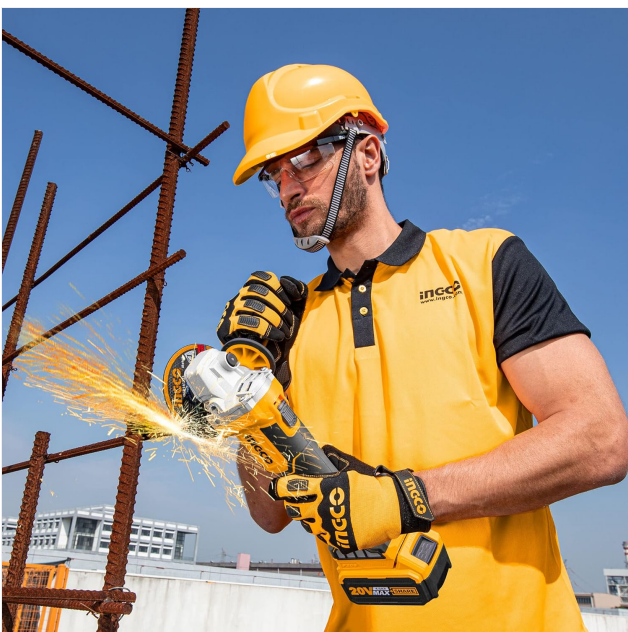
Always ensure the work piece is securely clamped and you have a stable footing before starting the grinder.

1. **Powering On/Off:** To start the grinder, slide the ON/OFF switch to the 'ON' position. To stop, slide the switch to the 'OFF' position.
2. **Speed Regulation:** This grinder features two-speed settings (3000 RPM and 8500 RPM). Use the speed selector switch to choose the appropriate speed for your application. Lower speeds are generally for polishing or lighter tasks, while higher speeds are for cutting and heavy grinding.
3. **Grinding:** Hold the grinder firmly with both hands. Position the disc at a slight angle (15-30 degrees) to the workpiece. Apply moderate pressure and move the grinder smoothly across the surface.
4. **Cutting:** For cutting, hold the grinder perpendicular to the workpiece. Apply light, consistent pressure and allow the disc to do the work. Do not twist or force the disc, as this can cause kickback or disc breakage.
5. **Polishing:** Use appropriate polishing pads and compounds. Operate at a lower speed and apply even pressure for best results.

Application Examples:



Cutting a metal pipe with the angle grinder.



Grinding rebar on a construction site.



Various applications of the angle grinder, including grinding and cutting different materials.

Maintenance

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

- **Cleaning:** After each use, clean the tool with a soft cloth. Use compressed air to blow out dust from the ventilation openings. Do not use water or chemical cleaners.
- **Disc Inspection:** Regularly inspect grinding and cutting discs for cracks, chips, or excessive wear. Replace damaged discs immediately.
- **Brushless Motor:** This tool features a brushless motor, which requires less maintenance compared to brushed motors. No carbon brush replacement is needed.
- **Storage:** Store the tool in a dry, secure place out of reach of children. Remove the battery pack before storage.

Troubleshooting

If you encounter issues with your angle grinder, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Tool does not start	Battery not charged or improperly inserted.	Ensure battery is fully charged and correctly inserted.
Reduced power or speed	Low battery charge; worn or incorrect disc.	Recharge battery; replace disc if worn or unsuitable for task.
Excessive vibration	Disc improperly mounted or damaged; loose auxiliary handle.	Check disc mounting and replace if damaged. Tighten auxiliary handle.
Sparks in wrong direction	Protective guard incorrectly positioned.	Adjust the protective guard to deflect sparks away from the user.

If the problem persists after attempting these solutions, contact qualified service personnel or the retailer for assistance.

Warranty and Support

This Ingco product is designed for durability and performance. For specific warranty terms and conditions, please refer to the documentation provided at the time of purchase or contact your retailer. Warranty coverage typically addresses manufacturing defects and material flaws under normal use.

For technical support, spare parts, or service inquiries, please contact your local Ingco distributor or the point of purchase. Ensure you have your product model number (CAGLI201158) and proof of purchase available when seeking support.