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Ingco CAGLI1151

Ingco CAGLI1151 20V Cordless Angle Grinder User Manual

Model: CAGLI1151

1. INTRODUCTION

Thank you for choosing the Ingco CAGLI1151 20V Cordless Angle Grinder. This manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of your tool. Please read these instructions carefully before use and keep them for future reference. This tool is designed for grinding and cutting metal and stone materials without the use of water. Always ensure you understand all safety warnings and instructions before operating the tool.

2. SAFETY INSTRUCTIONS

Always observe basic safety precautions to reduce the risk of fire, electric shock, and personal injury.

General Power Tool Safety

- **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:** This is a cordless tool. Ensure the battery pack is compatible with the tool and charger. Do not expose battery-powered tools to rain or wet conditions.
- **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.

Angle Grinder Specific Safety

- **Guards:** Always use the protective guard provided with the tool. Ensure it is securely fastened and positioned for maximum safety.
- **Discs:** Use only discs that are correctly sized (115mm diameter) and rated for the maximum speed of the grinder (8500 RPM). Ensure the disc is suitable for the material being worked on (e.g., cutting disc for cutting, grinding disc for grinding).
- **Kickback:** Be aware of kickback, which is a sudden reaction to a pinched or snagged rotating wheel. Always

maintain a firm grip on the tool and position your body and arm to resist kickback forces.

- **Workpiece:** Secure the workpiece. A clamped workpiece is safer than holding it by hand.
- **Starting the Tool:** Ensure the disc is clear of the workpiece before starting the tool.

Battery Pack Safety

- Use only the charger specified by the manufacturer.
- Do not short-circuit a battery pack or charger.
- Do not open or damage the battery pack.
- Do not store the tool or battery pack in locations where the temperature may reach or exceed 50°C (122°F).

3. PRODUCT OVERVIEW

The Ingco CAGLI1151 is a powerful 20V cordless angle grinder designed for various cutting and grinding tasks. Familiarize yourself with its components for safe and efficient operation.



This image displays the Ingco CAGLI1151 20V Cordless Angle Grinder, highlighting its main body, handle, and the adjustable protective guard.



This image provides a view of the Ingco CAGLI1151 20V Cordless Angle Grinder, annotated with its overall length (50cm), height (15cm), and width (25cm) for reference.

Key Components:

- **Motor Housing:** Contains the motor and internal mechanisms.
- **Auxiliary Handle:** Provides additional grip and control during operation.
- **Spindle:** The rotating shaft where the grinding/cutting disc is attached (M14 thread).
- **Protective Guard:** Shields the user from sparks and debris. Adjustable for different working angles.
- **Power Switch:** Activates and deactivates the tool.
- **Battery Port:** Where the 20V battery pack is inserted.

4. SETUP

Before operating the angle grinder, ensure it is properly set up.

4.1 Battery Installation

1. Ensure the angle grinder's power switch is in the OFF position.
2. Align the battery pack with the battery port on the tool.
3. Slide the battery pack into the port until it clicks securely into place.
4. To remove, press the battery release button and slide the battery pack out.

Note: Battery and charger are not included with this tool. Use only compatible Ingco 20V batteries and chargers.

4.2 Disc Installation (115mm)

1. Ensure the battery pack is removed from the tool for safety.

2. Press and hold the spindle lock button to prevent the spindle from rotating.
3. Using the provided wrench, loosen and remove the outer flange nut from the M14 spindle.
4. Place the inner flange onto the spindle.
5. Position the 115mm grinding or cutting disc onto the spindle, ensuring it sits flush against the inner flange.
6. Place the outer flange nut back onto the spindle and tighten it firmly with the wrench while holding the spindle lock button. Do not overtighten.

4.3 Guard Adjustment

1. Ensure the battery pack is removed.
2. Loosen the guard clamping screw or lever (if applicable).
3. Rotate the protective guard to a position that offers maximum protection from sparks and debris for your specific task.
4. Tighten the clamping screw or lever securely to lock the guard in place. Never operate the tool without the guard properly installed and adjusted.

5. OPERATING

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

5.1 Starting and Stopping

1. **Starting:** Ensure the workpiece is secure and the disc is clear. Press the power switch to the ON position. Allow the disc to reach full speed (8500 RPM) before contacting the workpiece.
2. **Stopping:** Release the power switch to the OFF position. Wait for the disc to come to a complete stop before setting the tool down.

5.2 Grinding and Cutting Techniques

- **Grip:** Always hold the angle grinder firmly with both hands, one on the main handle and one on the auxiliary handle.
- **Angle:** For grinding, hold the disc at a slight angle (typically 15-30 degrees) to the workpiece. For cutting, hold the disc perpendicular (90 degrees) to the workpiece.
- **Pressure:** Apply moderate, consistent pressure. Do not force the tool, as this can lead to overheating, reduced performance, and potential kickback. Let the tool do the work.
- **Direction:** Always direct sparks away from yourself and others.
- **Cutting Performance:** With a 2 Ah battery, you can cut approximately 6 bars of 16 mm steel. With a 4 Ah battery, you can cut approximately 18 bars of 16 mm steel.
- **Runtime:** A 2 Ah battery provides approximately 35 minutes of runtime, while a 4 Ah battery provides approximately 75 minutes. Actual runtime may vary based on load and material.



The Incco CAGLI1151 20V Cordless Angle Grinder is shown in active use, demonstrating its cutting capability on a metal surface, with sparks visible.

6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your angle grinder.

6.1 Cleaning

- Always remove the battery pack before cleaning.
- Keep the ventilation openings clear to prevent overheating. Use compressed air to blow out dust and debris from the motor housing.
- Wipe the tool's exterior with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners.

6.2 Disc Inspection

- Before each use, inspect the grinding/cutting disc for cracks, chips, or excessive wear. Replace damaged or worn discs immediately.
- Ensure the disc is securely mounted and the outer flange nut is tight.

6.3 Storage

- Store the tool and battery pack in a cool, dry place, away from direct sunlight and moisture.
- Keep out of reach of children.

7. TROUBLESHOOTING

Refer to this section for common issues and their solutions.

| Problem | Possible Cause | Solution |
|---------|----------------|----------|
|---------|----------------|----------|

| Problem | Possible Cause | Solution |
|-----------------------------------|---|--|
| Tool does not start | Battery not charged Battery not properly inserted Power switch faulty | Charge the battery Re-insert battery until it clicks Contact customer support |
| Reduced performance / Overheating | Battery low Disc worn or incorrect type Excessive pressure Blocked ventilation slots | Recharge battery Replace disc with correct type Reduce pressure Clean ventilation slots |
| Excessive vibration | Disc improperly mounted Damaged or unbalanced disc | Check disc mounting and tighten flange nut Replace disc |

8. SPECIFICATIONS

Technical specifications for the Ingco CAGLI1151 20V Cordless Angle Grinder:

- **Model:** CAGLI1151
- **Disc Diameter:** 115 mm
- **Spindle Thread:** M14
- **Rated Speed (No-load):** 8500 /min
- **Rated Voltage:** 20 V
- **Power Source:** Battery powered
- **Material:** Alloy Steel
- **Product Dimensions (L x W x H):** 50 x 25 x 15 cm
- **Item Weight:** 3 kg

Note: Specifications are subject to change without notice for product improvement.

9. WARRANTY AND SUPPORT

Ingco products are manufactured to high-quality standards. For warranty information, please refer to the warranty card included with your purchase or visit the official Ingco website. If you encounter any issues or require technical assistance, please contact Ingco customer support or your authorized dealer. Ensure you have your model number (CAGLI1151) and proof of purchase available when seeking support.