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› Ingco CIDLI20668E Cordless Brushless Impact Drill Instruction Manual

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Ingco CIDLI20668E Cordless Brushless Impact Drill Instruction Manual

Model: CIDLI20668E | Brand: Ingco

INTRODUCTION

This manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your Ingco CIDLI20668E Cordless Brushless Impact Drill. Please read this manual thoroughly before using the tool and keep it for future reference.



Image: The Ingco CIDLI20668E Cordless Brushless Impact Drill, showcasing its compact design, two 2.0Ah batteries, charger, and carrying case.

SAFETY INSTRUCTIONS

Always follow basic safety precautions to reduce the risk of fire, electric shock, and personal injury. Keep your work area clean and well-lit. Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust. Always wear appropriate personal protective equipment (PPE) including eye protection, hearing protection, and gloves.

- Ensure the battery is fully charged before use.
- Always remove the battery pack before making any adjustments, changing accessories, or storing the tool.
- Secure the workpiece before drilling.
- Avoid accidental starting. Ensure the switch is in the off-position before inserting the battery pack.
- Do not force the power tool. Use the correct power tool for your application.
- Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts, and any other condition that may affect the power tool's operation.

- Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool.

PRODUCT OVERVIEW

The Ingco CIDLI20668E is a versatile 20V cordless brushless impact drill designed for various drilling and fastening tasks. Key features include:

- **Compact Brushless Motor:** Provides efficient power and extended tool life.
- **20V Voltage:** High power for demanding applications.
- **Variable Speed:** 0-500/0-2000 rpm for precise control.
- **Impact Function:** Up to 30,000 bpm for drilling into masonry.
- **High Torque:** Maximum 66Nm for tough fastening tasks.
- **13mm Metal Chuck:** Durable and secure bit retention.
- **22+1+1 Torque Settings:** For precise control over fastening applications.
- **2-Speed Mechanical Gear:** Optimizes speed and torque for different materials.
- **Spindle Lock Function:** For easy bit changes.
- **Integrated LED Work Light:** Illuminates the work area.
- **LED Battery Charge Indicator:** Shows remaining battery power.



Image: Close-up view of the Ingco CIDLI20668E drill, highlighting features such as the impact function, 66Nm torque, spindle lock, and brushless motor technology.

SETUP

1. Charging the Battery

The battery pack (FBLI2001) is not fully charged upon purchase. Before first use, charge the battery pack completely using the provided charger (FCLI2001E).

1. Connect the charger to a standard 220-240V~50/60Hz power outlet.

2. Slide the battery pack onto the charger until it clicks into place.
3. The charging indicator light on the charger will show the charging status. Refer to the charger's specific instructions for light indications.
4. Once fully charged, disconnect the charger from the power outlet and remove the battery pack.

2. Installing/Removing the Battery Pack

- **Installation:** Align the battery pack with the battery port on the drill handle and slide it in until it locks securely.
- **Removal:** Press the battery release button (usually located on the side of the battery pack) and slide the battery out of the tool.

3. Installing Drill Bits/Accessories

This drill features a 13mm metal keyless chuck for easy bit changes.

1. Ensure the drill is off and the battery pack is removed.
2. Hold the rear part of the chuck and rotate the front part counter-clockwise to open the chuck jaws.
3. Insert the drill bit or accessory fully into the chuck.
4. Rotate the front part of the chuck clockwise to tighten the jaws securely around the bit. Ensure the bit is centered and firmly gripped.
5. To remove, reverse the process.



Image: The Ingco CIDLI20668E drill alongside its included accessories, such as drill bits and a bit set, demonstrating the comprehensive kit.

OPERATING INSTRUCTIONS

1. Power On/Off and Speed Control

- The drill is activated by pressing the trigger switch.
- Variable speed is controlled by the amount of pressure applied to the trigger. More pressure results in higher speed.
- Release the trigger to turn off the drill.

2. Forward/Reverse Rotation

A forward/reverse selector switch is located above the trigger. Push it to the left for forward rotation (drilling/fastening) and to the right for reverse rotation (removing screws/bits). Ensure the switch is in the center position for locking the trigger when not in use.

3. Gear Selection (2-Speed Mechanical Gear)

The drill has a 2-speed gearbox for optimizing performance:

- **Gear 1 (Low Speed, High Torque):** Ideal for driving screws and drilling large diameter holes in wood or metal. (0-500 rpm)
- **Gear 2 (High Speed, Low Torque):** Suitable for fast drilling of small diameter holes. (0-2000 rpm)

To change gears, slide the gear selector switch located on top of the drill. Ensure the drill is stopped before changing gears to prevent damage.

4. Torque Settings and Mode Selection

The torque adjustment ring allows you to select the desired torque for fastening applications or switch between drilling modes.

- **Torque Settings (1-22):** Rotate the ring to select the desired torque. Lower numbers are for smaller screws or softer materials, higher numbers for larger screws or harder materials.
- **Drill Mode (Drill Icon):** For general drilling without impact.
- **Impact Drill Mode (Hammer Icon):** For drilling into masonry and concrete.

Always select the appropriate mode and torque setting for the material and task at hand.

MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your Ingco drill.

- **Cleaning:** Keep the ventilation slots clear and free from dust. Use a soft, damp cloth to clean the tool casing. Do not use harsh chemicals or abrasive cleaners.
- **Chuck Maintenance:** Periodically clean the chuck jaws to ensure proper gripping.
- **Battery Care:** Store batteries in a cool, dry place. Do not store fully discharged batteries for extended periods. Charge them periodically if not in use.
- **Storage:** When not in use, store the drill, batteries, and charger in the provided carrying case in a dry, secure location out of reach of children.
- **Inspection:** Regularly inspect the tool for any signs of damage, loose screws, or worn parts. Do not use a damaged tool.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Drill does not start	Battery not charged or improperly installed. Trigger lock engaged.	Charge battery. Ensure battery is fully inserted. Disengage forward/reverse selector from center position.
Reduced power/speed	Low battery charge. Overload.	Recharge battery. Reduce pressure on the tool or use a larger drill bit.
Chuck not holding bit	Chuck not tightened sufficiently. Dirty chuck jaws.	Tighten chuck firmly. Clean chuck jaws.
Excessive vibration/noise	Damaged bit. Loose components.	Replace damaged bit. Check for loose screws; if problem persists, contact service.

SPECIFICATIONS

Model Number	CIDLI20668E
Brand	Ingco
Motor Type	Brushless
Voltage	20V
No-load Speed	0-500 / 0-2000 rpm
Max Impact Frequency	30,000 bpm
Max Torque	66 Nm
Chuck Capacity	13 mm (Metal Chuck)
Torque Settings	22+1+1
Gearbox	2-speed mechanical
Battery Capacity	2 x 2.0 Ah (FBLI2001)
Charger Input	220-240V~50/60Hz (FCLI2001E)
Dimensions (L x W x H)	25L x 5l x 25H cm (approximate, based on item dimensions)
Included Accessories	2 batteries, 1 charger, 47 accessories, 3 masonry drill bits, carrying case

WARRANTY AND SUPPORT

Ingco products are manufactured to high-quality standards. For warranty information, please refer to the warranty card included with your product or visit the official Ingco website. For technical support, spare parts, or service, please contact your local Ingco dealer or authorized service center. Keep your purchase receipt as proof of purchase.