

## Ingco CIDLI20608-8

# INGCO Brushless Impact Drill Set CIDLI20608-8 User Manual

Model: CIDLI20608-8

## 1. INTRODUCTION

Thank you for choosing the INGCO Brushless Impact Drill Set CIDLI20608-8. This manual provides essential information for the safe operation, setup, maintenance, and troubleshooting of your new power tool. Please read this manual thoroughly before use and retain it for future reference.

### General Safety Warnings

Always observe basic safety precautions when using power tools 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. Keep children and bystanders away while operating a power tool.

- Wear appropriate personal protective equipment, including eye protection, hearing protection, and gloves.
- Ensure the tool is switched off before making any adjustments, changing accessories, or storing it.
- Do not force the power tool; use the correct tool for your application.
- Maintain power tools with care. Check for misalignment or binding of moving parts, breakage of parts, and any other condition that may affect the power tool's operation.
- Keep handles and gripping surfaces dry, clean, and free from oil and grease.

## 2. PACKAGE CONTENTS

Your INGCO Brushless Impact Drill Set CIDLI20608-8 includes the following items:

- 1 x Brushless Impact Drill
- 2 x 20V 2.0Ah Lithium-Ion Batteries
- 1 x Fast Charger

- 1 x Canvas Bag



Image 2.1: Complete INGCO Brushless Impact Drill Set including the drill, two batteries, a charger, and a canvas carrying bag.

### 3. PRODUCT OVERVIEW

Familiarize yourself with the components of your INGCO Brushless Impact Drill:



Image 3.1: Diagram illustrating the key components of the INGCO Brushless Impact Drill, including the chuck, torque ring, speed selector, trigger, LED light, and battery interface.

1. **Chuck:** Holds drill bits and screwdriver bits securely.
2. **Torque Adjustment Ring:** Selects the desired torque setting for driving screws or the drill mode for drilling.
3. **Speed Selector Switch:** Changes between low-speed (1) and high-speed (2) gears.
4. **Forward/Reverse Switch:** Controls the direction of rotation and locks the trigger.
5. **Trigger Switch:** Activates the drill and controls variable speed.
6. **LED Work Light:** Illuminates the work area when the trigger is pressed.
7. **Battery Pack:** Provides power to the drill.
8. **Battery Release Buttons:** Used to detach the battery from the drill.
9. **Ventilation Holes:** Ensure proper cooling of the motor.
10. **Charge Display:** Indicates the remaining battery charge level.

## 4. SPECIFICATIONS

Technical specifications for the INGCO Brushless Impact Drill Set CIDLI20608-8:

# PARAMETER INFORMATION

- Brushless Motor
- Voltage:20V  $\equiv$
- No-load speed:0-450/0-1900/min
- Max.impact rate:22500/min
- Max.torque:60NM
- Chuck capacity:0-13mm
- Torque settings:23+1+1
- Mechanical 2-speed gear
- 20V Lithium-Ion 2.0Ah batteries
- With 2pcs battery pack
- With 1pcs fast charger
- Charge volts:220V-240V~50/60Hz
- Integrated work light
- LED battery power indicator
- Packed by Color box



Image 4.1: Visual representation of the drill's key technical parameters and included components.

Feature	Specification
Motor Type	Brushless
Voltage	20V
No-load Speed	0-450 / 0-1900 RPM
Max. Impact Rate	22500/min
Max. Torque	60 N.m (531 in-lbs)
Chuck Capacity	0-13mm (1/2 inch)
Torque Settings	23+1+1
Gear System	Mechanical 2-speed
Battery Type	20V Lithium-Ion 2.0Ah

Feature	Specification
Charger Input	220V-240V~50/60Hz
Item Weight	209 g (tool only, approximate)
Product Dimensions	10 x 20 x 37 cm

## 5. SETUP

### 5.1 Charging the Battery

Before first use, fully charge the battery pack. Connect the fast charger to a suitable power outlet (220V-240V~50/60Hz). Insert the battery pack into the charger. The charger indicator light will show the charging status. Once fully charged, remove the battery from the charger.

### 5.2 Installing and Removing the Battery

- **To Install:** Align the battery pack with the base of the drill handle. Slide the battery into place until it clicks securely.
- **To Remove:** Press the battery release buttons on both sides of the battery pack and slide the battery out of the drill handle.

### 5.3 Installing and Removing Drill Bits

- **To Install:** Rotate the chuck counter-clockwise until the jaws are open wide enough to insert the drill bit. Insert the bit fully and then rotate the chuck clockwise to tighten it securely. Ensure the bit is centered and firmly gripped.
- **To Remove:** Rotate the chuck counter-clockwise to loosen the jaws and remove the drill bit.

## 6. OPERATING INSTRUCTIONS

### 6.1 Powering On/Off and Variable Speed

The drill is activated by pressing the trigger switch. The speed of the drill is variable and controlled by the amount of pressure applied to the trigger. Pressing the trigger lightly results in lower speed, while pressing it fully results in maximum speed.

### 6.2 Forward/Reverse Rotation

The forward/reverse switch is located above the trigger. Push the switch to the left for forward rotation (for drilling and driving screws). Push it to the right for reverse rotation (for removing screws). When the switch is in the center position, the trigger is locked, preventing accidental activation.

### 6.3 Torque Settings and Modes

The torque adjustment ring allows you to select the appropriate torque for your task. Rotate the ring to align the desired setting with the arrow on the drill body.

- **Torque Settings (1-23):** Use these settings for driving screws. Lower numbers are for smaller screws and softer materials, while higher numbers are for larger screws and harder materials. The drill will stop rotating

once the set torque is reached, preventing overtightening or damage to the screw head.

- **Drill Mode (Drill Bit Symbol):** Use this mode for drilling into wood, metal, or plastic. This mode provides maximum torque without the clutch engaging.
- **Impact Drill Mode (Hammer Symbol):** Use this mode for drilling into masonry or concrete. This mode combines rotation with a hammering action.

## 6.4 Speed Selection (Gearbox)

The 2-speed selector switch is located on top of the drill. Use:

- **Speed 1 (Low Speed):** For high-torque applications like driving large screws or drilling large holes.
- **Speed 2 (High Speed):** For faster drilling of smaller holes or when less torque is required.

## 6.5 LED Work Light

The integrated LED work light automatically illuminates the work area when the trigger is pressed, improving visibility in dimly lit conditions.



Image 6.1: The INGCO drill being used for drilling into wood (left) and metal (right), demonstrating its versatility.



Image 6.2: The INGCO drill in use for drilling into a concrete surface, highlighting its impact drilling capability.

## 7. MAINTENANCE

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### 7.1 Cleaning

Regularly clean the ventilation slots of the drill to prevent overheating. Use a soft brush or compressed air to remove dust and debris. Do not use water or chemical cleaning agents. Wipe the tool housing with a soft, damp cloth.

### 7.2 Battery Care and Storage

- Store batteries in a cool, dry place, away from direct sunlight and extreme temperatures.
- Do not store batteries in a discharged state for extended periods. Charge them periodically if not in use.
- Protect batteries from impact and moisture.

### 7.3 General Inspection

Periodically inspect the power tool for any signs of damage, loose screws, or worn parts. If any damage is found, do not use the tool and contact customer support for repair.

## 8. TROUBLESHOOTING

If you encounter issues with your INGCO Brushless Impact Drill, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Drill does not start	Battery not installed correctly Battery discharged Forward/Reverse switch in center (locked) position	Reinstall battery securely Charge battery Move switch to forward or reverse position
Reduced power or speed	Battery low on charge Incorrect speed setting for task Overload protection activated	Recharge battery Switch to a higher speed setting (Speed 2) or lower torque Reduce pressure, allow tool to cool
Battery not charging	Charger not plugged in Faulty battery or charger Battery too hot/cold	Check power connection Contact customer support Allow battery to reach room temperature
Chuck not holding bit	Bit not inserted fully Chuck not tightened sufficiently	Ensure bit is fully seated Tighten chuck firmly by hand

If the problem persists after attempting these solutions, please contact customer support.

## 9. WARRANTY AND SUPPORT

For warranty information, please refer to the warranty card included with your product or contact your point of purchase. For technical support, spare parts, or service, please contact INGCO customer service through their official website or authorized service centers. Always provide the model number (CIDLI20608-8) when seeking support.

