

Ingco CIDLI20012

Ingco CIDLI20012 20V Cordless Impact Drill User Manual

1. INTRODUCTION

This manual provides essential information for the safe operation, setup, maintenance, and troubleshooting of your Ingco CIDLI20012 20V Cordless Impact Drill. Please read this manual thoroughly before using the tool to ensure proper and safe usage. Keep this manual for future reference.

2. GENERAL SAFETY INSTRUCTIONS

Always follow basic safety precautions to reduce the risk of fire, electric shock, and personal injury when using power tools.

2.1 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. Power tools create sparks which may ignite the dust or fumes.
- Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.

2.2 Electrical Safety

- Power tool plugs must match the outlet. Never modify the plug in any way.
- Avoid body contact with earthed or grounded surfaces, such as pipes, radiators, ranges, and refrigerators. There is an increased risk of electric shock if your body is earthed or grounded.
- Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.

2.3 Personal Safety

- Always wear eye protection. Use safety glasses, goggles, or a face shield.
- Dress properly. Do not wear loose clothing or jewelry. Keep your hair and clothing away from moving parts.
- Stay alert, watch what you are doing, and use common sense when operating a power tool.
- Use personal protective equipment. A dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.

2.4 Power 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.
- 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.
- Maintain power tools and accessories. Check for misalignment or binding of moving parts, breakage of parts, and any other condition that may affect the power tool's operation.

3. PRODUCT OVERVIEW

Familiarize yourself with the components of your Ingco CIDLI20012 Cordless Impact Drill.



Figure 3.1: The complete Ingco CIDLI20012 20V Cordless Impact Drill kit, including the drill unit, a durable carrying case, two 20V 2.0Ah lithium-ion batteries, and a charger.

3.1 Key Components

- **Chuck:** Holds drill bits and screwdriver bits.
- **Torque Adjustment Collar:** Selects the desired torque setting for driving screws or drilling mode.
- **Gear Selector:** Switches between high and low speed ranges.
- **Forward/Reverse Selector:** Changes the rotation direction.
- **Trigger Switch:** Activates the drill and controls variable speed.

- **LED Work Light:** Illuminates the work area.
- **Battery Pack:** Provides power to the drill.
- **Battery Release Button:** For removing the battery.

HIGH TORQUE MOTOR

High-performance copper wire motor, maximum torque 45N • m,
full drilling force, no pressure for multi-material drilling



Figure 3.2: A detailed view of the drill's front section, illustrating the high-performance copper wire motor capable of delivering 45 Newton Meters of torque for various drilling tasks.



Quick tightening , debugging on demand, higher efficiency

Figure 3.3: An image demonstrating the 18+1+1 gear torque adjustment collar on the drill, allowing precise control for different applications, from driving screws to drilling.

STEPLESS SPEED REGULATION SWITCH

MULTI-GEAR MECHANICAL SPEED REGULATION
SMOOTH SPEED REGULATION FOR MORE ROP REQUIREMENTS



Figure 3.4: This image highlights the stepless speed regulation switch (trigger) on the drill, which provides variable speed control for smooth operation and adaptability to different materials and tasks.

0.8-10MM SINGLE SLEEVE CHUCK

DURABLE AND NOT EASY TO BE DAMAGED
CAN USE VARIOUS TYPES OF DRILL BITS



Figure 3.5: A close-up view of the 0.8-10mm single sleeve chuck, designed for quick and easy bit changes with one hand, compatible with various drill bits.

HIGH-QUALITY LITHIUM BATTERY

WITH BATTERY CHARGE DISPLAY
EASY TO MASTER BATTERY STATUS



over-current
protection



under-voltage
protection



over-temperature
protection



charge and
discharge protection

Figure 3.6: This image shows the high-quality 20V 2.0Ah lithium-ion battery with a charge display, ensuring users can easily monitor the battery status. It also depicts the drill unit.



WITH 2PCS BATTERY PACK WITH 1PCS CR-V 65MM BITS **WITH 1PC FAST CHARGER WITH 3PCS MASONRY DRILL BITS**

Figure 3.7: A comprehensive view of all items included in the Ingco CIDLI20012 kit: the cordless impact drill, two battery packs, one fast charger, 1 piece CR-V 65mm bits, and 3 pieces masonry drill bits.

4. SETUP

4.1 Charging the Battery

1. Ensure the charger is connected to a standard 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, remove the battery pack from the charger. Do not overcharge the battery.

4.2 Installing and Removing the Battery Pack

1. **To Install:** Align the battery pack with the base of the drill handle and slide it in until it locks securely.
2. **To Remove:** Press the battery release button located on the battery pack and slide the battery out of the handle.

4.3 Installing and Removing Drill Bits

1. **To Install:** Rotate the chuck counter-clockwise to open the jaws. Insert the drill bit into the chuck as far as it will go. Rotate the chuck clockwise to tighten the jaws firmly around the bit. Ensure the bit is centered and secure.
2. **To Remove:** Rotate the chuck counter-clockwise to loosen the jaws and pull the drill bit out.

5. OPERATING INSTRUCTIONS

5.1 Power On/Off and Speed Control

- The drill is activated by pressing the trigger switch.
- The speed is variable; pressing the trigger further increases the speed.
- Release the trigger to turn off the drill.

5.2 Forward/Reverse Rotation

- Push the forward/reverse selector to the left for forward (clockwise) rotation.
- Push the selector to the right for reverse (counter-clockwise) rotation.
- Position the selector in the center to lock the trigger and prevent accidental starting.

5.3 Torque Adjustment and Mode Selection

- Rotate the torque adjustment collar to select the desired setting.
- Settings 1-18 are for driving screws, with higher numbers indicating greater torque.
- The drill symbol (⚙️) is for general drilling tasks.
- The hammer symbol (🔨) is for hammer drilling into masonry.

5.4 Gear Selector (High/Low Speed)

- Slide the gear selector switch on top of the drill to choose between two speed ranges.
- Position '1' (low speed) is for high torque applications, such as driving large screws or drilling large holes.
- Position '2' (high speed) is for faster drilling with smaller bits.

5.5 LED Work Light

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

6. MAINTENANCE

6.1 Cleaning

- Always disconnect the battery pack before cleaning.
- Use a soft, damp cloth to clean the exterior of the tool. Do not use harsh chemicals or abrasive cleaners.
- Keep the ventilation openings clear of dust and debris to prevent overheating. Use compressed air if necessary.

6.2 Storage

- Store the drill and battery packs in a cool, dry place, away from direct sunlight and moisture.
- Store the tool in its original carrying case to protect it from damage.

- For long-term storage, ensure batteries are partially charged (around 50%) and recharge them every 3-6 months.

7. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
Drill does not start	Battery not charged or improperly installed. Forward/reverse selector in center (locked) position.	Charge battery and ensure it is securely installed. Move forward/reverse selector to forward or reverse position.
Loss of power during operation	Battery charge is low.	Recharge the battery pack.
Bit slips in chuck	Chuck not tightened sufficiently. Bit shank is dirty or damaged.	Ensure chuck is tightened firmly. Clean or replace the drill bit.
Overheating	Prolonged heavy use. Blocked ventilation slots.	Allow the tool to cool down. Clear any obstructions from ventilation slots.

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

8. SPECIFICATIONS

Feature	Specification
Model Number	CIDLI20012
Manufacturer	Ingco
Voltage	20 Volts
Maximum Torque	45 Newton Meters
No-Load Speed	0-400 / 0-1500 RPM
Chuck Size	0.8-10 mm
Torque Settings	18+1+1 (Drill, Driver, Hammer)
Battery Type	Lithium-Ion
Battery Capacity	2.0 Ah (2000 mAh)
Item Weight	350 g (drill only)
Product Dimensions	28 x 18 x 8 cm

Feature	Specification
Material	Plastic (housing)
Special Features	Variable Speed, LED Work Light, Lock Speed Button

9. WARRANTY AND SUPPORT

Ingco products are manufactured to high-quality standards. For information regarding warranty coverage, terms, and conditions, please refer to the warranty card included with your product or visit the official Ingco website. For technical support, spare parts, or service inquiries, please contact your local Ingco service center or authorized dealer.