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Ingco CDLI205582

INGCO 20V Brushless Cordless Impact Drill CDLI205582 User Manual

Model: CDLI205582

1. INTRODUCTION

Thank you for choosing the INGCO 20V Brushless Cordless Impact Drill, model CDLI205582. This manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your new tool. Please read these instructions carefully before use and retain them for future reference.

This powerful and versatile tool is designed for drilling into wood, metal, and masonry, as well as for driving screws. Its brushless motor ensures enhanced efficiency and longer tool life.

2. SAFETY INFORMATION

Always observe basic safety precautions to reduce the risk of fire, electric shock, and personal injury. Keep your work area clean and well-lit. Wear appropriate personal protective equipment, including eye protection, hearing protection, and gloves. Ensure the tool is switched off and the battery is removed before making any adjustments or changing accessories.

3. PRODUCT OVERVIEW AND COMPONENTS

The INGCO CDLI205582 drill comes with a comprehensive set of accessories to support various tasks.



Figure 1: The INGCO 20V Brushless Cordless Impact Drill, shown with its two 2.0Ah batteries, battery charger, a selection of drill bits, screw bits, and the durable carrying case.



Figure 2: An overview highlighting the drill's brushless motor, 20V voltage, 0-500/0-2000 RPM no-load speed, 30,000 BPM impact rate, 55 Nm max torque, 13mm metal chuck, 22+1 torque settings, 2-speed gear, spindle lock, LED work light, battery indicator, two 2.0Ah batteries, charger, 47 accessories, and carrying case.

Included Components:

- 1 x INGCO 20V Brushless Cordless Impact Drill
- 2 x 2.0Ah Batteries
- 1 x Battery Charger (220-240V~50/60Hz)
- 47 x Accessories (drill bits, screw tips, masonry bits)
- 1 x Industrial-grade Carrying Case

4. SETUP

4.1 Battery Installation and Charging

1. **Charging the Battery:** Connect the charger to a power outlet. Slide the battery pack onto the charger until it clicks into place. The indicator light on the charger will show the charging status. Ensure the battery is fully charged before first use.
2. **Installing the Battery:** Align the battery pack with the base of the drill handle. Slide the battery into the handle until it locks securely into place.
3. **Removing the Battery:** Press the battery release button (usually located on the side of the battery pack) and slide the battery out of the handle.

4.2 Accessory Installation (Chuck Operation)

CHUCK CAPACITY: 13 MM



STABLE CLAMPING WITH METAL CHUCK

Figure 3: The 13mm metal chuck provides stable clamping for various accessories. The image shows a drill bit securely inserted into the chuck.

- Opening the Chuck:** Rotate the chuck counter-clockwise until the jaws are wide enough to insert the desired accessory (drill bit, screwdriver bit).
- Inserting the Accessory:** Insert the shank of the accessory into the chuck as far as it will go.
- Tightening the Chuck:** Rotate the chuck clockwise to tighten the jaws firmly around the accessory. Ensure the accessory is centered and securely held to prevent slippage during operation. The all-metal chuck provides robust grip.

5. OPERATING INSTRUCTIONS

5.1 Powering On/Off and Variable Speed Trigger

The drill is powered on by pressing the trigger switch and turned off by releasing it. The variable speed trigger allows for precise control over the drilling or driving speed. Pressing the trigger further increases the speed.

5.2 Forward/Reverse Rotation

A switch located above the trigger controls the direction of rotation. Push the switch to the left for forward rotation (drilling/driving) and to the right for reverse rotation (removing screws/bits). Ensure the switch is in the center position to lock the trigger and prevent accidental startup.

5.3 2-Speed Gearbox



Figure 4: The mechanical 2-speed gear selector allows you to choose between low speed (0-500 RPM) for high torque applications and high speed (0-2000 RPM) for faster drilling.

The drill features a mechanical 2-speed gearbox for optimal performance across different applications:

- **Gear 1 (Low Speed):** 0-500 RPM. Provides higher torque, ideal for driving screws and drilling larger holes in tough materials.
- **Gear 2 (High Speed):** 0-2000 RPM. Provides faster speed, suitable for drilling smaller holes in wood and metal.

Always shift gears when the drill is stopped to prevent damage to the gearbox.

5.4 Torque Settings (22+1)

TORQUE SETTINGS: 22+1+1



MEET VARIOUS WORKING CONDITIONS

Figure 5: The torque adjustment ring allows selection of 22 different torque settings for precise control, plus a dedicated drill mode. This enables adaptation to various working conditions and materials.

The torque adjustment ring allows you to select from 22 torque settings, plus a dedicated drill mode. This feature prevents over-driving screws and damaging materials. Rotate the ring to the desired setting:

- **Settings 1-22:** For driving screws. Lower numbers for smaller screws or softer materials, higher numbers for larger screws or harder materials.
- **Drill Symbol:** For drilling operations, providing maximum torque without clutch engagement.

5.5 Drilling Modes (Impact Function)

55N.m

IMPACT FUNCTION



DRILLING CAPACITY

Figure 6: This image shows the drilling capacities of the INGCO impact drill: Max. Ø35mm for wood, Max. Ø13mm for metal, and Max. Ø10mm for concrete, utilizing its 55Nm impact function.

The drill offers two primary modes, selected via the mode selector ring:

- **Drill Mode:** For standard drilling in wood and metal, and for driving screws.
- **Impact Drill Mode:** For drilling into masonry and concrete, utilizing a hammering action in addition to rotation. This mode delivers up to 30,000 BPM (Blows Per Minute).



Figure 7: The drill in action, demonstrating its capability to drill into concrete, highlighting its impact function.

5.6 LED Work Light and Battery Indicator



Figure 8: The integrated LED work light illuminates the work surface, improving visibility in dimly lit areas. The image shows the light active during a drilling task.

The integrated LED work light automatically illuminates when the trigger is pressed, providing visibility in dark or confined spaces. A battery indicator on the tool displays the remaining charge level.

5.7 Brushless Motor Technology

Figure 9: This diagram visually represents the brushless motor technology within the drill, emphasizing its efficiency and ability to deliver a maximum torque of 60 Nm (note: product specifications state 55 Nm, refer to specifications for accurate value).

The brushless motor offers several advantages over traditional brushed motors, including:

- **Increased Efficiency:** Up to 30% more efficient, leading to longer runtime per battery charge.
- **Longer Tool Life:** No carbon brushes to wear out, reducing maintenance and extending the lifespan of the tool.
- **More Power:** Delivers consistent power and higher torque (55Nm max torque).

5.8 Cordless Operation



Figure 10: This image contrasts the freedom and flexibility of the cordless INGCO drill with the limitations of a traditional corded drill, emphasizing portability and ease of use.

The 20V cordless design provides maximum portability and flexibility, allowing you to work in various locations without the need for a power outlet.

6. MAINTENANCE

6.1 Cleaning the Tool

Regularly clean the ventilation openings of the drill to prevent overheating. Use a soft, damp cloth to wipe down the tool. Do not use harsh chemicals or abrasive cleaners. Ensure the battery is removed before cleaning.

6.2 Battery Care

- 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.
- Avoid dropping or physically damaging the battery packs.

6.3 Storage

When not in use, store the drill and its accessories in the provided carrying case. Keep the tool out of reach of children and in a secure, dry location.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Drill does not start	Battery not charged or improperly installed; Forward/reverse switch in center (locked) position; Faulty battery or tool.	Charge battery; Ensure battery is securely installed; Move forward/reverse switch to desired direction; Test with another charged battery; Contact service center if issue persists.
Loss of power during operation	Battery charge is low; Overload protection activated.	Recharge battery; Reduce pressure on the tool or use a lower speed/torque setting.

Problem	Possible Cause	Solution
Accessory slips in chuck	Chuck not tightened sufficiently; Accessory shank is dirty or damaged.	Retighten chuck firmly; Clean or replace accessory.
Excessive vibration or noise	Bent or damaged accessory; Loose components.	Replace accessory; Check for loose parts and tighten if possible; Contact service center.

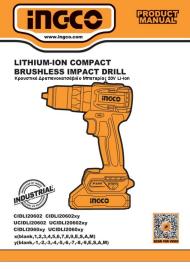
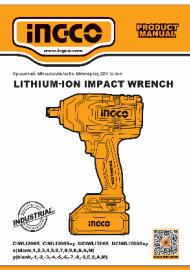
8. SPECIFICATIONS

Feature	Specification
Brand	Ingco
Model Number	CDLI205582
Power Source	Battery Powered (20V)
Motor Type	Brushless
Maximum Rotational Speed	0-500 / 0-2000 RPM (2-Speed Gear)
Maximum Torque	55 Newton Meters
Impact Rate	30,000 BPM
Chuck Capacity	13 Millimetres (All-metal chuck)
Torque Settings	22+1
Drilling Capacity (Wood)	Max. Ø35mm
Drilling Capacity (Metal)	Max. Ø13mm
Drilling Capacity (Concrete)	Max. Ø10mm
Battery Capacity	2 x 2.0 Amp Hours
Special Features	Brushless Motor, Cordless, Variable Speed, LED Work Light, Battery Indicator, Spindle Lock
Product Dimensions	32.5L x 12W x 40H Centimeters
Item Weight	4.6 Kilograms

9. WARRANTY AND SUPPORT

For warranty information, please refer to the warranty card included with your product or visit the official INGCO website. Keep your purchase receipt as proof of purchase. For technical support or service inquiries, please contact INGCO customer service through their official channels.

Related Documents - CDLI205582

	<p>INGCO CIDLI20602: Οδηγός Χρήσης για Δραπανοκατσάβιδο Μπαταρίας 20V Li-Ion</p> <p>Ανακαλύψτε πώς να χρησιμοποιείτε με ασφάλεια και αποτελεσματικά το δραπανοκατσάβιδο μπαταρίας INGCO 20V Li-Ion (μοντέλα CIDLI20602, UCIDL20602, CIDLI206021, κ.α.). Ο πλήρης οδηγός περιλαμβάνει οδηγίες ασφαλεψίας, λειτουργίας, τεχνικές προδιαγραφές και συντήρηση.</p>
	<p>INGCO CIDLI20968 Brushless Cordless Impact Drill User Manual</p> <p>Comprehensive user manual for the INGCO Brushless Cordless Impact Drill (CIDLI20968 series). Includes detailed operating instructions, safety guidelines, technical specifications, maintenance, and troubleshooting for this powerful cordless tool.</p>
	<p>INGCO Trapano a Percussione Senza Spazzole agli Ioni di Litio - Manuale Utente</p> <p>Manuale utente dettagliato per il trapano a percussione senza spazzole agli ioni di litio INGCO (modelli CIDLI20608/UCIDL20608). Include istruzioni di sicurezza, funzionamento, manutenzione e specifiche tecniche.</p>
	<p>INGCO Compact Brushless Cordless Impact Drill Product Manual</p> <p>Comprehensive product manual for the INGCO Compact Brushless Cordless Impact Drill, covering safety instructions, technical specifications, operation, maintenance, troubleshooting, and warranty information.</p>
	<p>INGCO Cordless Lithium-Ion Impact Wrench CIWLI2085xy - Product Manual & Safety Guide</p> <p>Comprehensive product manual for the INGCO 20V Li-Ion Cordless Impact Wrench (CIWLI2085xy). Includes safety instructions, technical specifications, operation guide, troubleshooting, and warranty information.</p>
	<p>INGCO Compact Brushless Cordless Drill User Manual</p> <p>User manual and safety instructions for the INGCO Compact Brushless Cordless Drill (models CDLI20668, UCDLI20668 series). Covers operation, specifications, and maintenance.</p>