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> INGCO CDLI20668 20V Compact Brushless Cordless Drill Instruction Manual

Ingco CDLI20668

INGCO CDLI20668 20V Compact Brushless Cordless Drill Instruction Manual

Model: CDLI20668

INTRODUCTION

This instruction manual provides important information for the safe operation, setup, maintenance, and troubleshooting of your INGCO CDLI20668 20V Compact Brushless Cordless Drill. Please read this manual thoroughly before using the tool to ensure proper and safe usage. Keep this manual for future reference.

The INGCO CDLI20668 is a versatile 20V compact brushless cordless drill designed for various drilling and driving tasks. It features a high-efficiency brushless motor, 66Nm torque, a 13mm metal chuck, 2-speed gear, 22+1 torque settings, and an integrated LED work light.

GENERAL SAFETY INSTRUCTIONS

WARNING: Read all safety warnings, instructions, illustrations, and specifications provided with this power tool. Failure to follow all instructions listed below may result in electric shock, fire, and/or serious injury.

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.

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.

Personal Safety

- Stay alert, watch what you are doing, and use common sense when operating a power tool.
- Use personal protective equipment. Always wear eye protection. Protective equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.
- Prevent unintentional starting. Ensure the switch is in the off-position before connecting to battery pack, picking up or carrying the tool.

Power Tool Use and Care

- Do not force the power tool. Use the correct power tool for your application.
- Do not use the power tool if the switch does not turn it on and off. Any power tool that cannot be controlled with the switch is dangerous and must be repaired.
- 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.

Battery Tool Use and Care

- Recharge only with the charger specified by the manufacturer.
- Use power tools only with specifically designated battery packs.
- When battery pack is not in use, keep it away from other metal objects.

PRODUCT OVERVIEW

The INGCO CDLI20668 cordless drill is designed for efficient drilling and screwdriving. Familiarize yourself with its components before operation.



Figure 1: INGCO CDLI20668 Cordless Drill Components. This image displays the drill with key parts labeled, including the 13mm metal drill chuck, 2-speed gearbox, brushless motor, forward/reverse button, spindle lock function, LED work light, battery, charger, and accessory case.

Key Components:

- **13mm Metal Chuck:** For securely holding drill bits and screwdriver bits.
- **Brushless Motor:** Provides high efficiency, longer runtime, and extended tool life.
- **2-Speed Gearbox:** Allows selection between high speed for drilling and high torque for screwdriving.
- **Forward/Reverse Button:** Controls the rotation direction of the chuck.
- **Torque Adjustment Ring:** Sets the desired torque level for screwdriving or drill mode.
- **LED Work Light:** Illuminates the work area for improved visibility.
- **LED Battery Indicator:** Displays the remaining battery charge level.
- **Battery Pack (FBLI20011):** 20V 2.0Ah Li-ion battery.
- **Charger (FCLI2001):** For recharging the battery packs.

SETUP

1. Charging the Battery Pack

1. Ensure the charger (FCLI2001) is connected to a 220-240V~50/60Hz power outlet.
2. Slide the battery pack (FBLI20011) into the charger until it clicks into place.
3. The charger indicator light will show the charging status. Refer to the charger's specific instructions for light indications.
4. Once fully charged, disconnect the battery pack from the charger and unplug the charger from the power outlet.

2. Installing the Battery Pack

1. Align the charged battery pack with the base of the drill handle.
2. Slide the battery pack into the handle until it locks securely into place. Ensure it is fully seated to prevent accidental dislodgement during operation.
3. To remove the battery, press the release button on the battery pack and slide it out.

3. Installing Drill Bits or Screwdriver Bits

1. Ensure the drill is switched off and the forward/reverse switch is in the center (locked) position to prevent accidental starting.
2. Rotate the chuck collar counter-clockwise to open the chuck jaws.
3. Insert the desired drill bit or screwdriver bit into the chuck, ensuring it is centered.
4. Rotate the chuck collar clockwise to tighten the chuck jaws firmly around the bit. Hand-tighten securely. The 13mm metal chuck with spindle lock function ensures secure bit holding.
5. *Optional:* For very secure grip, use the spindle lock function by rotating the chuck until it locks, then tighten further.

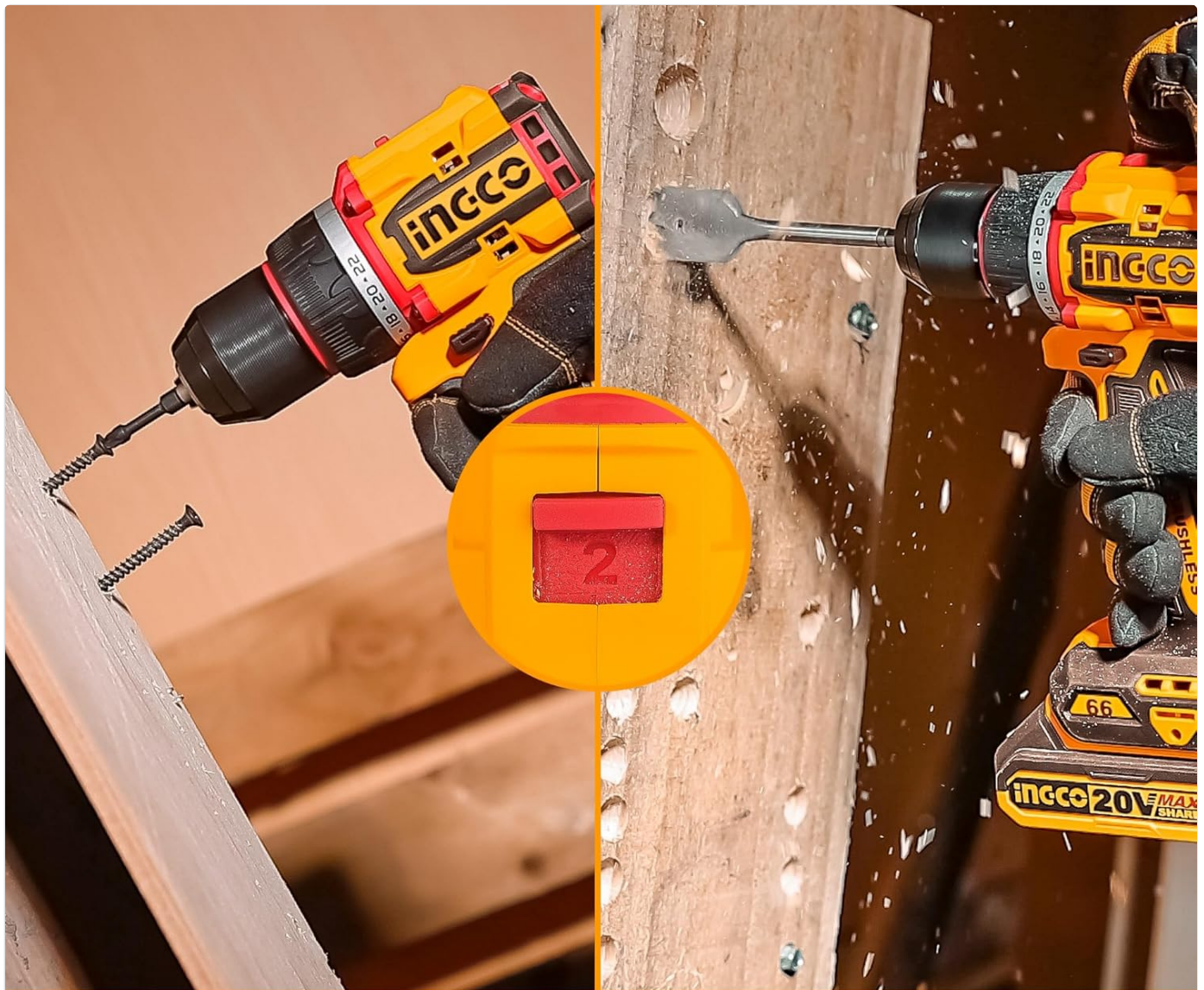
OPERATING INSTRUCTIONS

1. Selecting Rotation Direction (Forward/Reverse)

- Push the forward/reverse button to the left for forward rotation (drilling and tightening screws).
- Push the forward/reverse button to the right for reverse rotation (removing screws).
- For safety, set the button to the center position to lock the trigger when not in use or when changing bits.

2. Adjusting Speed

The drill features a mechanical 2-speed gearbox for optimal performance.



2 SPEED TRANSMISSION ALWAYS MEET YOUR NEED

SCREWDRIVING (0-500RPM) DRILLING (0-2000RPM)

Figure 2: 2-Speed Transmission. This image illustrates the two speed settings: 0-500 RPM for screwdriving and 0-2000 RPM for drilling, highlighting the versatility of the tool.

- **Gear 1 (Low Speed, 0-500 RPM):** Ideal for screwdriving applications and drilling large diameter holes where higher torque is required.
- **Gear 2 (High Speed, 0-2000 RPM):** Suitable for fast drilling of smaller diameter holes.
- To change speeds, slide the gear selector switch located on top of the drill. Ensure the drill is stopped before changing gears.

3. Setting Torque

The torque adjustment ring allows you to select from 22+1 torque settings to match the application and material.

- Rotate the torque adjustment ring to select the desired setting.
- Settings 1-22 are for screwdriving, with lower numbers for smaller screws and softer materials, and higher numbers for larger screws and harder materials.
- The drill symbol setting (⚙️) is for drilling applications, providing maximum torque.

4. Using the LED Work Light



BUILT-IN LED LIGHT

Figure 3: Built-in LED Light. This image shows the integrated LED light illuminating the work surface, enhancing visibility in dimly lit conditions.

- The integrated LED work light automatically activates when the trigger is pressed, illuminating the work area.
- It turns off shortly after the trigger is released.

5. Checking Battery Charge

- The LED battery indicator on the battery pack or drill body shows the remaining charge.
- Refer to the indicator lights for the current battery status. Recharge the battery when the indicator shows low charge.

6. General Operation



Figure 4: Drill in Use. A person is shown operating the INGCO CDLI20668 cordless drill, drilling into a wooden beam, demonstrating typical application.

- Hold the drill firmly with both hands if possible, especially for high-torque applications.
- Position the bit on the workpiece and press the trigger to start. The variable speed trigger allows for gradual speed increase.
- Apply steady, even pressure. Do not force the drill.
- For drilling, ensure the drill is perpendicular to the surface.
- For screwdriving, ensure the bit is fully engaged with the screw head to prevent stripping.

MAINTENANCE

1. Cleaning

- Always disconnect the battery pack before cleaning.
- Use a soft, damp cloth to wipe 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.
- Clean the chuck jaws regularly to ensure proper bit gripping.

2. Battery Care and Storage

- Store battery packs in a cool, dry place, away from direct sunlight and extreme temperatures.
- Do not store battery packs in a discharged state for extended periods. Recharge them periodically if not in use.
- Avoid dropping or subjecting battery packs to impact.

3. General Storage

- Store the drill, battery packs, charger, and accessories in the provided durable carrying case.
- Keep the tool and accessories out of reach of children and unauthorized users.

TROUBLESHOOTING

| Problem | Possible Cause | Solution |
|---------------------------------|--|---|
| Drill does not start. | Battery not charged or not properly installed. Forward/reverse switch in center (locked) position. | Charge battery. Ensure battery is fully inserted. Move forward/reverse switch to forward or reverse position. |
| Loss of power during operation. | Battery charge is low. Overload protection activated. | Recharge battery. Reduce pressure on the tool or use a lower speed/higher torque setting. |
| Bit slips in chuck. | Chuck not tightened sufficiently. Bit shank is dirty or damaged. | Ensure chuck is tightened firmly. Clean bit shank. Replace damaged bits. |
| Excessive vibration or noise. | Damaged or bent drill bit. Loose components. | Replace drill bit. Check for loose parts and tighten if possible. If problem persists, discontinue use and contact service. |

SPECIFICATIONS

Parameter Information

- Brushless Motor**
- Voltage: 20V**
- No-load speed: 0-500/0-2000rpm**
- Max impact rate: 30000bpm**
- Max torque: 66NM**
- Metal Chuck Capacity:13mm**
- Torque settings: 22+1**
- Mechanical 2-speed gear**
- Spindle lock function**
- Integrated LED work light**
- Include:**
- 47Pcs accessories**
- 3Pcs masonry drill bits**
- 2Pcs 2.0Ah battery pack**
- 1Pcs charger**
- Charge volts: 220-240V~50/60Hz**
- Packed by carrying case**



Figure 5: Parameter Information. This image provides a summary of the technical specifications for the INGCO CDLI20668 cordless drill, including voltage, speed, torque, and chuck capacity.

| Feature | Detail |
|----------------|--------------------|
| Model Number | CDLI20668 |
| Brand | Ingco |
| Motor Type | Brushless |
| Voltage | 20V |
| No-load Speed | 0-500 / 0-2000 RPM |
| Max Torque | 66 Nm |
| Chuck Capacity | 13mm Metal Chuck |

| Feature | Detail |
|---------------------|---|
| Torque Settings | 22 + 1 (Drill Mode) |
| Gear System | Mechanical 2-speed |
| Special Features | Spindle Lock Function, Integrated LED Work Light, LED Battery Indicator |
| Included Components | 1 x Cordless Drill, 47 pcs accessories, 2 x 2.0Ah battery packs (FBLI20011), 1 x charger (FCLI2001) |
| Charger Voltage | 220-240V~50/60Hz |

WARRANTY AND SUPPORT

For warranty information, please refer to the warranty card included with your product or contact INGCO customer service directly. Keep your purchase receipt as proof of purchase.

For technical support, spare parts, or service inquiries, please contact your local INGCO dealer or visit the official INGCO website for contact details.