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› Ingco 20V Brushless Impact Driver User Manual

Ingco CIRLI2002

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Model: CIRLI2002

1. IMPORTANT SAFETY INSTRUCTIONS

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

- **Work Area Safety:** Keep your 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.
- **Electrical Safety:** Power tool plugs must match the outlet. Never modify the plug in any way. Do not expose power tools to rain or wet conditions.
- **Personal Safety:** Stay alert, watch what you are doing, and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol, or medication. Always wear appropriate personal protective equipment, including safety glasses, hearing protection, and gloves.
- **Tool Use and Care:** Do not force the power tool. Use the correct power tool for your application. Disconnect the plug from the power source and/or remove the battery pack before making any adjustments, changing accessories, or storing power tools.
- **Battery Pack Use and Care:** Recharge only with the charger specified by the manufacturer. Use power tools only with specifically designated battery packs.

2. PRODUCT OVERVIEW AND COMPONENTS

The Ingco 20V Brushless Impact Driver is designed for efficient fastening and loosening of screws and nuts. Familiarize yourself with its parts for optimal use.



Figure 2.1: Labeled components of the Ingco 20V Brushless Impact Driver.

Metal Head Shell: Durable housing for the impact mechanism.

Brushless Motor: Provides powerful and efficient operation with longer service life.

Forward/Reverse Switch: Controls the direction of rotation.

LED Work Light: Illuminates the work area for improved visibility.

Variable Speed Switch: Allows for precise speed control based on application.

Ventilation Holes: Ensures efficient cooling of the motor.

Comfortable Grip Handle: Ergonomically designed for user comfort.

Two-speed Speed Regulation: Offers different speed settings for various tasks.

Metal Hook: Convenient for hanging the tool when not in use.

Charge Display: Indicates the remaining battery charge level.

High Quality 2.0Ah Lithium-Ion Battery: Provides reliable power.

The package includes:

- 1 x Ingco Brushless Impact Driver
- 2 x 2.0Ah Lithium-Ion Batteries

- 1 x 1-Hour Fast Charger
- 2 x Screwdriver Bits (65mm)
- 3 x Nut Setters
- 1 x Canvas Bag for storage and transport



Figure 2.2: Ingco Impact Driver and its complete accessory set.

3. SETUP

3.1 Charging the Battery

The battery pack is not fully charged upon purchase. It is recommended to fully charge the battery before first use.

1. Connect the charger to a standard power outlet (100-240V~50/60Hz).
2. Slide the battery pack onto the charger until it clicks into place.
3. The charge indicator lights on the battery will show the charging progress. A full charge typically takes about 1 hour.

4. Once fully charged, remove the battery pack from the charger.



Figure 3.1: Battery charge indicator in use.

3.2 Attaching Bits and Nut Setters

The impact driver uses a 1/4 inch (6.35mm) hex shank chuck for quick and secure accessory changes.

1. Ensure the tool is switched off and the battery is removed before attaching or removing accessories.
2. Pull the chuck collar forward to open the chuck.
3. Insert the hex shank of the screwdriver bit or nut setter fully into the chuck.
4. Release the chuck collar to lock the accessory in place. Tug on the accessory to ensure it is securely fastened.

4. OPERATING INSTRUCTIONS

4.1 Powering On/Off and Variable Speed Control

To operate the tool, insert a charged battery pack. The tool is activated by pressing the variable speed switch.

- **To Start:** Press the variable speed switch. The tool's speed will increase as you press the switch further.
- **To Stop:** Release the variable speed switch.
- **Two-Speed Regulation:** Use the speed selector switch (if present, typically on top of the tool) to choose between low speed (0-1300 RPM) for delicate tasks and high speed (0-2100 RPM) for faster driving.

4.2 Forward/Reverse Operation

The forward/reverse switch controls the direction of rotation for driving or removing fasteners.

- **Forward Rotation:** Push the switch to the left (when viewed from the rear of the tool) for driving screws or tightening nuts.
- **Reverse Rotation:** Push the switch to the right for removing screws or loosening nuts.
- **Lock Position:** When the switch is in the center position, the tool is locked, preventing accidental startup. Always set the switch to the lock position when not in use or when changing accessories.

4.3 LED Work Light

The integrated LED work light automatically illuminates when the variable speed switch is pressed, providing visibility in dimly lit areas.

LED Work Light



Figure 4.1: LED Work Light in action.

4.4 General Operation Tips

- Apply firm, even pressure to the tool to prevent cam-out (bit slipping from the fastener head).
- For long screws or tough materials, start at a lower speed and gradually increase as needed.
- The impact mechanism will engage automatically when resistance is met, providing additional torque.



Figure 4.2: Impact driver in use on a construction site.



Figure 4.3: Driving a screw into wood.

5. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your impact driver.

- **Cleaning:** Keep the tool's ventilation openings clear and free of debris. Use a soft, damp cloth to clean the exterior. Do not use harsh chemicals or abrasive cleaners.
- **Battery Care:** Store batteries in a cool, dry place away from direct sunlight. Do not store fully discharged batteries for extended periods. Recharge them periodically if not in use.
- **Accessory Inspection:** Regularly inspect screwdriver bits and nut setters for wear or damage. Replace worn accessories to ensure efficient operation and prevent damage to fasteners.
- **Storage:** When not in use, store the tool, batteries, and charger in the provided canvas bag in a dry, secure location out of reach of children.

6. TROUBLESHOOTING

This section addresses common issues you might encounter with your Ingco Impact Driver.

Problem	Possible Cause	Solution
Tool does not start.	Battery not charged or not inserted correctly. Forward/reverse switch in lock position.	Ensure battery is fully charged and properly inserted. Move forward/reverse switch out of the center lock position.
Reduced power or speed.	Low battery charge. Overload.	Recharge the battery. Reduce pressure or use a larger bit/nut setter if applicable.
Bit/nut setter wobbles or falls out.	Chuck not properly engaged. Incorrect bit type.	Ensure chuck collar is fully released after inserting the bit. Use only 1/4 inch hex shank accessories.
Tool overheats.	Continuous heavy use. Blocked ventilation holes.	Allow the tool to cool down. Clear any obstructions from ventilation holes.

7. SPECIFICATIONS

Detailed technical specifications for the Ingco 20V Brushless Impact Driver (Model: CIRLI2002).

Parameter Information

Voltage	20V ---
Hex shank	6.35mm(1/4")
No-load speed	0-1300/0-2100min $^{-1}$
Impcat rate	0-2000/0-3300 bpm
Max.torque	170NM
20V Lithium-Ion 2.0Ah batteries	
Including 1pc 1Hr charger	
Charge volts	100-240V~50/60Hz
Integrated work light	
LED battery power indicator	
With 2pcs screwdriver bits	
With 3pcs nut setters	
Packed by canvas bag	



Figure 7.1: Product Parameter Information.

Feature	Specification
Model	CIRLI2002
Voltage	20V
Hex Shank Size	6.35mm (1/4")
No-load Speed	0-1300 / 0-2100 RPM
Impact Rate	0-2000 / 0-3300 BPM
Max. Torque	170 Nm
Battery Type	Lithium-Ion

Feature	Specification
Battery Capacity	2.0 Ah (x2 included)
Charger Input	100-240V~50/60Hz
Charging Time	1 Hour (Fast Charger)
Weight	Approx. 300g (tool only)
Material	Metal
Special Features	Variable Speed, LED Work Light, Brushless Motor

8. WARRANTY AND SUPPORT

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

For technical support, spare parts, or service inquiries, please visit the official Ingco website or contact their authorized service centers in your region. Contact details can typically be found on the product packaging or the manufacturer's website.

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