

## Dongcheng Z1J-FF02-13

# Dongcheng Z1J-FF02-13 Corded Electric Impact Drill User Manual

Model: Z1J-FF02-13

## 1. IMPORTANT SAFETY INSTRUCTIONS

Always observe basic safety precautions when using electric tools to reduce the risk of fire, electric shock, and personal injury. Read all instructions carefully before operating this tool.

### 1.1 General Power Tool Safety Warnings

- **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. Avoid body contact with earthed or grounded surfaces such as pipes, radiators, ranges, and refrigerators.
- **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 eye protection. Use safety equipment such as dust masks, non-skid safety shoes, hard hats, or hearing protection when appropriate.
- **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. Disconnect the plug from the power source before making any adjustments, changing accessories, or storing power tools.

### 1.2 Specific Safety Warnings for Impact Drills

- Wear ear protectors when impact drilling. Exposure to noise can cause hearing loss.
- Use auxiliary handles if supplied with the tool. Loss of control can result in personal injury.
- Hold the power tool by insulated gripping surfaces when performing an operation where the cutting accessory may contact hidden wiring or its own cord.

## 2. PRODUCT OVERVIEW

The Dongcheng Z1J-FF02-13 is a corded electric impact drill designed for drilling into various materials. It

features a robust metal construction and a built-in LED working light for improved visibility.



Figure 1: Dongcheng Z1J-FF02-13 Corded Electric Impact Drill. This image shows the overall design of the blue impact drill, highlighting its ergonomic handle and chuck area.

## 2.1 Components

- **Chuck:** Holds the drill bit securely.
- **Chuck Key:** Used for tightening and loosening the chuck.
- **Trigger Switch:** Activates and controls the speed of the drill.
- **Lock-on Button:** For continuous operation.
- **Forward/Reverse Switch:** Changes the rotation direction.
- **Mode Selector (Drill/Impact Drill):** Selects between rotary drilling and impact drilling modes.
- **Auxiliary Handle:** Provides additional grip and control.
- **Depth Stop:** For precise drilling depth.
- **Built-In LED Working Light:** Illuminates the work area.

## 3. SETUP

### 3.1 Attaching the Auxiliary Handle

1. Loosen the auxiliary handle by turning it counter-clockwise.
2. Slide the handle onto the drill's neck to the desired position.
3. Tighten the handle by turning it clockwise until secure.

### 3.2 Installing a Drill Bit

1. Ensure the drill is unplugged from the power source.
2. Insert the chuck key into one of the holes on the chuck.
3. Turn the chuck key counter-clockwise to open the chuck jaws.
4. Insert the shank of the drill bit into the chuck as far as it will go.
5. Turn the chuck key clockwise to tighten the chuck jaws around the drill bit. Ensure the bit is centered and securely fastened.
6. Remove the chuck key before operating the drill.

### 3.3 Setting the Depth Stop

1. Loosen the auxiliary handle.
2. Insert the depth stop into the hole on the auxiliary handle.
3. Adjust the depth stop to the desired drilling depth.
4. Tighten the auxiliary handle to secure the depth stop.

## 4. OPERATING INSTRUCTIONS

### 4.1 Power Connection

Connect the drill's power cord to a 220V, 50Hz electrical outlet. Ensure the outlet is properly grounded.

### 4.2 Selecting Operating Mode

Use the mode selector switch to choose between:

- **Drilling Mode (Rotary):** For drilling in wood, metal, and plastics.
- **Impact Drilling Mode:** For drilling in masonry, concrete, and other hard materials.

### 4.3 Starting and Stopping

- **To Start:** Press the trigger switch. The drill speed is variable depending on how far the trigger is pressed.
- **For Continuous Operation:** Press the trigger switch fully, then press the lock-on button. Release the trigger while holding the lock-on button.
- **To Stop (from continuous operation):** Press the trigger switch again, then release it.
- **To Stop (from momentary operation):** Release the trigger switch.

### 4.4 Changing Rotation Direction

Use the forward/reverse switch located near the trigger to change the direction of rotation. Ensure the drill has come to a complete stop before changing direction.

- **Forward (Clockwise):** For drilling and driving screws.
- **Reverse (Counter-clockwise):** For removing screws or freeing a jammed drill bit.

## 5. MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your impact drill.

### 5.1 Cleaning

- Always unplug the tool before cleaning.
- Keep the ventilation openings clean to prevent overheating. Use a soft brush or compressed air to remove dust and debris.
- Wipe the tool housing with a damp cloth. Do not use harsh chemicals or abrasive cleaners.

### 5.2 Carbon Brushes

The carbon brushes may need replacement after extended use. This should be performed by a qualified service technician.

### 5.3 Storage

Store the drill in a dry, secure location out of reach of children. Protect it from direct sunlight and extreme temperatures.

## 6. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
Drill does not start	No power supply; Faulty power cord/plug; Faulty switch	Check power connection; Inspect cord/plug for damage; Contact service center
Loss of power during operation	Overload; Loose connection; Worn carbon brushes	Reduce pressure; Check power cord; Have brushes inspected/replaced
Excessive vibration or noise	Bent drill bit; Loose chuck; Internal damage	Replace drill bit; Tighten chuck; Contact service center
Drill bit gets stuck	Incorrect drilling technique; Wrong bit for material	Use reverse function to free; Apply less pressure; Use appropriate bit

If the problem persists after attempting these solutions, please contact an authorized service center.

## 7. SPECIFICATIONS

Feature	Specification
Model Number	Z1J-FF02-13
Power Source	Corded Electric
Rated Voltage	220 V
Rated Frequency	50 Hz
Rated Input Power	500 W

Feature	Specification
No-load Speed	0-2600 RPM
Chuck Size	0.5 inch (13 mm)
Wood Drilling Capacity	1 inch (25.4 mm)
Metal Drilling Capacity	10 mm
Special Features	Lightweight, Built-In LED Working Light
Included Components	Chuck Key, Basic Drill Bits
Material	Metal
Shipping Dimensions	25.96 x 22 x 6.81 cm
Item Weight	1.75 kg

## 8. WARRANTY AND SUPPORT

This product is covered by the manufacturer's standard warranty. Please refer to the warranty card included with your purchase for specific terms and conditions.

For technical support, service, or spare parts, please contact your local Dongcheng authorized service center. Keep your purchase receipt as proof of purchase for warranty claims.