

GALAX PRO Z1J-A-ID02

GALAX PRO 7Amp 850W 2-in-1 Hammer Drill User Manual

Model: Z1J-A-ID02

1. IMPORTANT SAFETY INSTRUCTIONS

Read all safety warnings and instructions before operating this power tool. Failure to follow the warnings and instructions may result in electric shock, fire, and/or serious injury. Save all warnings and instructions for future reference.

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. Do not use any adapter plugs with earthed (grounded) power tools. Unmodified plugs and matching outlets will reduce risk of electric shock.
- 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

- Always wear eye protection. Use safety glasses, goggles, or a face shield.
- Wear hearing protection when operating the hammer drill.
- 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.

2. PRODUCT OVERVIEW AND COMPONENTS

Familiarize yourself with the parts of your GALAX PRO 7Amp 850W 2-in-1 Hammer Drill before operation.



Figure 2.1: Key components of the hammer drill. Labels include Drill Chuck, Hammer Action Selector, Depth Gauge, Forward/Reverse Switch, Auxiliary Handle, Chuck Key, Variable Speed Dial, On/Off Switch, and Lock-on Button.

- **Drill Chuck:** Holds the drill bits securely.
- **Hammer Action Selector:** Switches between drilling and hammer drilling modes.
- **Depth Gauge:** Used to set the desired drilling depth.
- **Forward/Reverse Switch:** Changes the rotation direction of the chuck.
- **Auxiliary Handle:** Provides additional grip and control, adjustable 360 degrees.
- **Chuck Key:** Used to tighten and loosen the drill chuck.
- **Variable Speed Dial:** Adjusts the maximum rotational speed.
- **On/Off Switch:** Activates and deactivates the drill.
- **Lock-on Button:** Allows for continuous operation without holding the trigger.

3. INCLUDED ACCESSORIES

Your GALAX PRO Hammer Drill comes with the following accessories:



Figure 3.1: Overview of the hammer drill and its accessories.

- 1 x Impact Drill Motor
- 9 x Twist Drills (including woodworking drills, iron drills, and cement drills)
- 1 x Auxiliary Handle
- 1 x Chuck Key
- 1 x Depth Gauge
- 1 x Carbon Brush Set
- 1 x User Manual (this document)

4. SETUP

4.1 Attaching the Auxiliary Handle

The auxiliary handle provides better control and stability during operation. It can be rotated 360 degrees for optimal positioning.

1. Loosen the auxiliary handle by twisting it counter-clockwise.
2. Slide the handle onto the front of the drill body.
3. Rotate the handle to the desired position.
4. Tighten the handle by twisting it clockwise until secure.

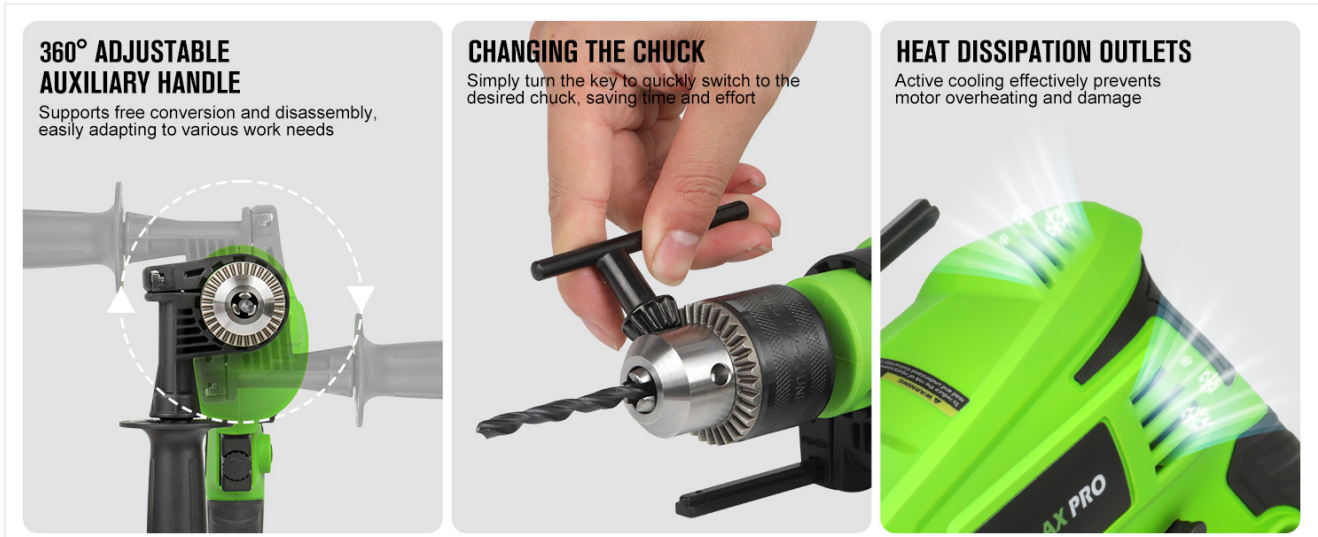


Figure 4.1: Auxiliary handle adjustment and chuck changing process.

4.2 Inserting and Changing Drill Bits

Always ensure the drill is unplugged from the power source before changing bits.

1. Insert the chuck key into one of the holes on the chuck.
2. Rotate the chuck key counter-clockwise to open the chuck jaws.
3. Insert the drill bit into the chuck, ensuring it is centered and fully seated.
4. Rotate the chuck key clockwise to tighten the chuck jaws firmly around the drill bit. Ensure the bit is secure to prevent slippage during operation.
5. Remove the chuck key from the chuck before operating the drill.



Figure 4.2: Step-by-step guide for changing a drill bit.

4.3 Adjusting the Depth Gauge

The depth gauge helps achieve consistent drilling depths.

1. Loosen the auxiliary handle.

2. Slide the depth gauge through the hole in the auxiliary handle.
3. Adjust the depth gauge to the desired drilling depth, measuring from the tip of the drill bit.
4. Tighten the auxiliary handle to secure the depth gauge in place.

5. OPERATING INSTRUCTIONS

5.1 Powering On/Off and Speed Control

The drill features a variable speed trigger and a lock-on button for continuous operation.



Figure 5.1: Controls for speed adjustment, lock, and direction.

- **On/Off Switch:** Press the trigger to start the drill. Release to stop.
- **Variable Speed:** The speed is controlled by how much you press the trigger. A variable speed dial (0-3000 RPM) allows you to set the maximum speed.
- **Lock-on Button:** For continuous operation, press the trigger fully and then press the lock-on button. To release, press the trigger again.
- **Forward/Reverse Switch:** Slide the switch to the left for forward rotation (drilling) and to the right for reverse

rotation (removing screws or freeing jammed bits). Ensure the drill is stopped before changing direction.

5.2 Selecting Drill Mode (2-in-1 Function)

The hammer drill offers two primary modes: drilling and hammer drilling.



Figure 5.2: Demonstrating 2-in-1 function mode for various materials.

- **Drill Mode (Rotation Only):** For drilling into wood, metal, plastics, and other materials that do not require impact. Set the hammer action selector to the drill icon.
- **Hammer Drill Mode (Rotation with Impact):** For drilling into concrete, brick, and masonry. Set the hammer action selector to the hammer icon. Use appropriate masonry drill bits.

5.3 Drilling Tips for Various Materials

Always use the correct drill bit for the material you are working with.



Figure 5.3: Examples of drilling applications on different materials.

- **Wood:** Use wood drill bits. Start with a slow speed to prevent splintering, then increase.
- **Metal:** Use metal drill bits. Apply cutting oil to cool the bit and material. Start with a pilot hole for larger diameters.
- **Concrete/Masonry:** Use masonry drill bits and hammer drill mode. Apply steady pressure.
- **Plastics:** Use wood or metal drill bits. Use low speed to prevent melting or cracking.

6. MAINTENANCE

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

6.1 Cleaning

- Always unplug the tool before cleaning.
- Use a soft brush or dry cloth to remove dust and debris from the ventilation openings and housing.
- Do not use water or chemical cleaning agents.

6.2 Carbon Brush Replacement

The carbon brushes are wear parts and should be checked periodically. Replace them when they are worn down to approximately 1/4 inch (6mm).

1. Unplug the drill from the power source.
2. Locate the brush caps on the sides of the motor housing.
3. Unscrew the brush caps using a screwdriver.
4. Remove the old carbon brushes.
5. Insert new carbon brushes, ensuring they are seated correctly.
6. Replace and tighten the brush caps.

6.3 Storage

- Store the tool in a dry, secure place out of reach of children.
- Avoid storing in direct sunlight or areas with extreme temperatures.

7. TROUBLESHOOTING

Refer to this section for common issues and their solutions.

Problem	Possible Cause	Solution
Drill does not start.	No power supply. Faulty power cord/plug. Worn carbon brushes.	Check power outlet and connections. Inspect cord for damage; replace if necessary. Replace carbon brushes.
Drill bit slips in chuck.	Chuck not tightened sufficiently. Drill bit shank is dirty or damaged.	Tighten chuck firmly with chuck key. Clean or replace drill bit.
Excessive vibration or noise.	Bent drill bit. Loose components.	Replace drill bit. Check all fasteners and tighten if loose.
Overheating.	Blocked ventilation slots. Prolonged heavy use.	Clean ventilation slots. Allow tool to cool down. Reduce load.

8. SPECIFICATIONS

Technical data for the GALAX PRO 7Amp 850W 2-in-1 Hammer Drill.

Specification	Value
Brand	GALAX PRO
Model Number	Z1J-A-ID02
Power Source	Corded Electric
Amperage	7.7 Amps
Maximum Power	850 Watts

Specification	Value
Voltage	120 Volts
Maximum Rotational Speed	3000 RPM
Maximum Chuck Size	13 Millimeters
Drill Type	Hammer Drill
Drilling Capacity Wood	30 Millimeters
Drilling Capacity Metal	13 Millimeters
Item Weight	5.46 pounds
Product Dimensions	12.6"L x 3.15"W x 9.06"H
Material	Metal

9. WARRANTY AND SUPPORT

GALAX PRO products are manufactured to high-quality standards and are warranted against defects in materials and workmanship. Please refer to the warranty card included with your purchase for specific terms and conditions.

For technical support, replacement parts, or warranty claims, please contact GALAX PRO customer service through the retailer where the product was purchased or visit the official GALAX PRO website.