MAKITA MK208

MAKITA MK208 Kit User Manual

Models: DHP481 Hammer Drill, DSS610 Circular Saw

1. Introduction

This manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of your MAKITA MK208 Kit. The kit includes the DHP481 Hammer Drill, DSS610 Circular Saw, two 18V 5.0Ah Lithium-Ion batteries, a DC18RC charger, and an LXT600 trolley bag.



Figure 1.1: Overview of the MAKITA MK208 Kit components.

2. 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.

2.1 Work Area Safety

- Keep 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.
- Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.

2.2 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. Water entering a power tool will increase the risk of electric shock.

2.3 Personal Safety

- Always wear eye protection. Use safety glasses, goggles, or a face shield.
- 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.

3. Setup

3.1 Battery Charging and Installation

The kit includes two 18V 5.0Ah Lithium-Ion batteries and a DC18RC charger.

1. Connect the DC18RC charger to a power outlet.
2. Insert the battery into the charger, aligning the grooves. The charging indicator lights will show the charging status.
3. Once fully charged, remove the battery from the charger.
4. To install the battery into the tool (DHP481 or DSS610), slide the battery pack into the tool's base until it clicks into place.
5. To remove, press the release button on the battery and slide it out.



Figure 3.1: MAKITA DC18RC Charger.



Figure 3.2: MAKITA 18V 5.0Ah Battery.

3.2 DHP481 Hammer Drill Setup



Figure 3.3: MAKITA DHP481 Hammer Drill.

3.2.1 Installing the Auxiliary Handle

The auxiliary handle provides better control and stability, especially during high-torque applications or hammer drilling.

1. Loosen the handle by twisting it counter-clockwise.
2. Slide the handle onto the front of the drill body.
3. Adjust the handle to your desired position and tighten it by twisting clockwise.

3.2.2 Installing Drill Bits

1. Twist the chuck counter-clockwise to open the jaws.
2. Insert the drill bit fully into the chuck.
3. Twist the chuck clockwise to tighten the jaws securely around the bit. Ensure the bit is centered and firmly held.

3.3 DSS610 Circular Saw Setup



Figure 3.4: MAKITA DSS610 Circular Saw.

3.3.1 Installing the Saw Blade

WARNING: Always disconnect the battery pack before installing or removing the saw blade.

1. Press the shaft lock button to prevent the shaft from rotating.
2. Use the provided service wrench to loosen the hex bolt holding the outer flange.
3. Remove the outer flange and the old blade (if any).
4. Place the new blade onto the inner flange, ensuring the teeth are pointing in the direction of rotation indicated by the arrow on the saw.
5. Replace the outer flange and tighten the hex bolt securely with the wrench while holding the shaft lock button.

3.3.2 Adjusting Cutting Depth and Bevel Angle

- **Cutting Depth:** Loosen the depth adjustment lever, move the base plate up or down to the desired depth, and then tighten the lever.
- **Bevel Angle:** Loosen the bevel adjustment lever, tilt the base plate to the desired angle (up to 45° or 50°), and then tighten the lever.

4. Operating Instructions

4.1 DHP481 Hammer Drill Operation

- **Mode Selector:** Rotate the ring to select between drilling, hammer drilling, or screwdriving modes.
- **Torque Settings:** For screwdriving, adjust the torque ring to one of the 21 settings. Start with a lower setting and increase as needed to prevent over-tightening.
- **Speed Selection:** Use the mechanical speed selector switch (1 or 2) on top of the drill. Position 1 is for lower speed and higher torque, Position 2 for higher speed and lower torque.
- **Variable Speed Trigger:** The trigger provides variable speed control. Press lightly for slower speeds and harder for faster speeds.
- **Forward/Reverse Switch:** Located above the trigger, push left for forward rotation and right for reverse rotation. Center position locks the trigger.

4.2 DSS610 Circular Saw Operation

- **Starting the Saw:** The saw features a two-stage trigger. First, press the safety lock-off button, then depress the trigger switch to start the saw.
- **Cutting:** Align the saw's base plate with your cutting line. Ensure the blade is clear of the workpiece before starting. Allow the saw to reach full speed before engaging the material. Maintain a firm grip and guide the saw smoothly through the cut.
- **Dust Blower:** The integrated dust blower helps keep the cutting line clear for better visibility.

5. Maintenance

- **Cleaning:** Regularly clean the tool's ventilation openings to prevent overheating. Use a soft, damp cloth. Do not use solvents.
- **Blade/Bit Inspection:** Inspect drill bits and saw blades for sharpness and damage before each use. Replace worn or damaged accessories.
- **Battery Care:** Store batteries in a cool, dry place away from direct sunlight. Do not store fully discharged batteries for extended periods.
- **Brushless Motor:** The DHP481 features a brushless motor, reducing the need for brush replacement and extending motor life.

6. Troubleshooting

Problem	Possible Cause	Solution
Tool does not start.	Battery not charged or not properly inserted. Safety lock-off engaged (DSS610).	Charge battery. Reinsert battery firmly. Press safety lock-off button before trigger.

Problem	Possible Cause	Solution
Battery not charging.	Charger not plugged in. Battery or charger too hot/cold. Damaged battery/charger.	Check power connection. Allow battery/charger to reach room temperature. Contact service if damaged.
DHP481 lacks power.	Low battery charge. Incorrect speed/torque setting.	Recharge battery. Adjust speed to '1' for higher torque; increase torque setting.
DSS610 blade binds.	Incorrect cutting depth. Dull blade. Material pinching blade.	Adjust cutting depth. Replace blade. Support workpiece to prevent pinching.

7. Specifications

7.1 DHP481 Hammer Drill

- **Brushless BL Motor:** Yes
- **Torque (soft/hard):** 60 / 115 Nm
- **Torque Settings:** 21
- **No-load Speed:** 0 - 550 / 2100 min-1
- **Impact Rate:** 0 - 8250 / 31500 min-1
- **Chuck Capacity:** 1.5 - 13 mm
- **Drilling Capacity - Wood:** Ø 76 mm max.
- **Drilling Capacity - Metal:** Ø 13 mm max.
- **Drilling Capacity - Masonry:** Ø 16 mm max.
- **Voltage:** 18 V
- **Weight:** 2.7 kg

7.2 DSS610 Circular Saw

- **No-load Speed:** 3700 min-1
- **Cutting Capacity at 90º:** 57 mm max.
- **Cutting Capacity at 45º:** 40 mm max.
- **Cutting Capacity at 50º:** 36 mm max.
- **Saw Blade Diameter:** Ø 165 mm
- **Bore Diameter:** Ø 20 mm
- **Voltage:** 18 V
- **Weight:** 3.5 kg

7.3 Batteries and Charger

- **Battery Type:** Lithium-Ion
- **Battery Voltage:** 18 V

- **Battery Capacity:** 5.0 Ah
- **Charger Model:** DC18RC

8. Warranty and Support

For warranty information, technical support, or service inquiries, please refer to the documentation provided with your purchase or contact your local MAKITA authorized service center. Keep your proof of purchase for warranty claims.

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