Makita M8701

Makita M8701 Combination Hammer Drill User Manual

Model: M8701 | Brand: Makita

1. Introduction

Thank you for choosing the Makita M8701 Combination Hammer Drill. This manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of your tool. Please read this manual thoroughly before use and keep it for future reference.



Figure 1.1: The Makita M8701 Combination Hammer Drill, showcasing its red and black housing with the Makita logo.

2. Safety Instructions

Always observe basic safety precautions to reduce the risk of fire, electric shock, and personal injury. Keep this manual handy for quick reference.

- Wear eye protection and hearing protection.
- Use appropriate respiratory protection in dusty environments.
- Ensure the work area is well-lit and clear of obstructions.
- 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.
- Avoid accidental starting. Ensure the switch is in the off-position before plugging in.
- Do not abuse the cord. Never use the cord for carrying, pulling, or unplugging the power tool.
- Maintain tools with care. Keep cutting tools sharp and clean.
- Disconnect the plug from the power source before making any adjustments, changing accessories, or storing power tools.

3. Components Overview

Familiarize yourself with the main parts of your Makita M8701 Combination Hammer Drill:

1. **SDS-PLUS Chuck:** For quick and secure bit changes.
2. **Mode Selector Switch:** To select between drilling, hammer drilling, and chiseling modes.
3. **Trigger Switch:** To activate the tool.
4. **Lock-on Button:** For continuous operation.
5. **Side Handle:** Provides additional grip and control.
6. **Depth Gauge:** For precise drilling depth control.
7. **Rotation Change Lever:** To switch between forward and reverse rotation.



Figure 3.1: Side view of the Makita M8701, showing the main body and the attached side handle.



Figure 3.2: Close-up of the mode selector switch and rotation change lever on the Makita M8701.

4. Setup

4.1 Attaching the Side Handle

1. Loosen the side handle by turning it counter-clockwise.
2. Slide the handle onto the barrel of the tool.
3. Adjust the handle to a comfortable and secure position.
4. Tighten the handle by turning it clockwise.

4.2 Installing the Depth Gauge

1. Insert the depth gauge into the hole on the side handle.
2. Adjust the depth gauge to the desired drilling depth.
3. Ensure it is securely fastened by tightening the side handle.

4.3 Installing or Removing Drill Bit (SDS-PLUS)

1. Clean the bit shank and apply a small amount of grease.
2. Insert the bit into the chuck until it locks. Pull the bit to ensure it is securely seated.

3. To remove, pull the chuck cover towards the tool body and pull out the bit.

5. Operating Instructions

5.1 Selecting Operation Mode

Rotate the mode selector switch to choose the desired operation:

- **Drilling Mode (Drill icon):** For drilling in wood, metal, or plastic without hammering.
- **Hammer Drilling Mode (Hammer and Drill icon):** For drilling in concrete, masonry, or stone with hammering action.
- **Chiseling Mode (Chisel icon):** For light chiseling or chipping operations.

5.2 Starting and Stopping

- To start the tool, pull the trigger switch.
- To stop, release the trigger switch.
- For continuous operation, pull the trigger switch and then press the lock-on button. To release, pull the trigger switch fully.

5.3 Adjusting Speed and Rotation

- The tool features electronically adjustable speed. Speed can be varied by the amount of trigger depression.
- Use the rotation change lever to select forward (clockwise) or reverse (counter-clockwise) rotation.



Figure 5.1: The Makita M8701 in operation, demonstrating its use for drilling into a concrete surface.

6. Maintenance

Regular maintenance ensures optimal performance and extends the life of your tool.

- **Cleaning:** Regularly clean the ventilation openings to prevent overheating. Use a soft cloth to wipe down the tool. Do not use strong detergents or solvents.
- **Carbon Brushes:** The motor employs carbon brushes. Have them inspected and replaced by a Makita authorized service center when they wear down.
- **Lubrication:** The internal mechanisms are factory lubricated. Do not attempt to lubricate internal parts yourself.
- **Cord Inspection:** Periodically inspect the power cord for damage. If damaged, have it repaired by a qualified technician.
- **Storage:** Store the tool in a dry, secure place out of reach of children.

7. Troubleshooting

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

Problem	Possible Cause	Solution
Tool does not start	No power supply; Damaged cord/plug; Faulty switch	Check power outlet; Inspect cord/plug; Contact service center
Reduced drilling performance	Worn drill bit; Incorrect mode selection; Overheating	Replace bit; Select correct mode; Allow tool to cool down
Excessive vibration	Bent drill bit; Loose components	Replace bit; Check for loose parts; Contact service center
Smoke or unusual smell	Overload; Motor issue	Stop immediately; Unplug tool; Contact service center

For issues not listed here or if solutions do not resolve the problem, please contact a Makita authorized service center.

8. Specifications

Feature	Specification
Model Number	M8701
Power Input	800 W
Impact Energy	2.3 Joules
No Load Speed	0 - 1,200 rpm
Impact Rate	0 - 4,500 bpm
Drilling Capacity (Concrete)	26 mm
Drilling Capacity (Wood)	32 mm
Drilling Capacity (Steel)	13 mm
Core Bit Capacity	68 mm
Chuck Type	SDS-PLUS
Cable Length	4 m
Dimensions (L x W x H)	362 x 71 x 194 mm
Weight	2.7 kg
Vibration (Hammer Drilling in Concrete)	16.5 m/s²
Sound Pressure Level	90 dB(A)
Sound Power Level	101 dB(A)
Included Accessories	Carrying Case, Side Handle, Depth Stop

9. Warranty and Support

Makita products are manufactured under strict quality control. For information regarding warranty terms and conditions, please refer to the warranty card included with your product or visit the official Makita website. For technical support, spare parts, or service, please contact your local authorized Makita service center.
You can find more information and support on the official Makita website:www.makita.com

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