Makita HM1802

Makita HM1802 Hex Shank Electric Breaker User Manual

Model: HM1802 | Brand: Makita

1. Introduction

This manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of your Makita HM1802 Hex Shank Electric Breaker. Please read this manual thoroughly before using the tool to ensure proper handling and to prevent injury or damage.

2. Safety Instructions

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

- **Work Area Safety:** Keep the work area clean and well-lit. 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.
- **Personal Safety:** Always wear eye protection, hearing protection, and appropriate safety footwear. Dress properly; do not wear loose clothing or jewelry.
- **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 before making any adjustments, changing accessories, or storing power tools.
- **Vibration:** This tool produces significant vibration. Prolonged exposure to vibration may cause hand-arm vibration syndrome. Use anti-vibration gloves and take frequent breaks.

3. Product Overview

The Makita HM1802 is a powerful electric breaker designed for heavy-duty demolition work. It features a robust motor and a hex shank system for efficient material removal.



Figure 3.1: Makita HM1802 Hex Shank Electric Breaker. This image shows the complete electric breaker, highlighting its robust body, handles, and the hex shank chuck with a pointed chisel bit inserted.

3.1 Key Components

- **Main Handle:** For primary grip and control.
- **Side Handles:** Provide additional stability and control during operation.
- **Power Cord:** Heavy-duty cord for reliable power supply.
- **Hex Shank Chuck:** Securely holds 28.6mm hex shank accessories.
- **Switch:** Power on/off control.
- **Vibration Absorbing Housing:** Designed to reduce vibration transmitted to the user.

4. Specifications

Specification	Value
Continuous Rating Input	2,000W
Impacts per Minute (ipm)	870
Dimensions (L x W x H)	843x210x608mm
Net Weight	30.1 kg (66.4 lbs)
Power Supply Cord	5.0m (16.4ft)
Shank Type	28.6mm Hex Shank
Impact Energy	71.4 Joules
Power Source Type	Corded Electric
Special Features	Variable Speed, Vibration Absorbing Housing, Soft Start, Soft Grip

5. Setup

5.1 Unpacking

Carefully remove the electric breaker and all accessories from the packaging. Inspect for any damage that may have occurred during shipping. Retain packaging for future storage or transport.

5.2 Attaching Accessories

1. Ensure the tool is unplugged from the power source.
2. Clean the shank of the accessory (e.g., bull point, chisel) and apply a small amount of grease.
3. Pull back the chuck sleeve and insert the accessory into the chuck until it clicks into place.
4. Release the chuck sleeve and pull on the accessory to ensure it is securely locked.

5.3 Connecting to Power

Connect the power cord to a suitable power outlet. Ensure the voltage and frequency of the power supply match the specifications on the tool's nameplate.

6. Operating Instructions

6.1 Starting the Tool

With the accessory securely installed and the tool plugged in, press the power switch to start the breaker. The soft start feature will gradually bring the tool up to full speed, suppressing initial reaction.

6.2 Demolition Work

- Hold the tool firmly with both hands, utilizing both the main and side handles.
- Position the accessory tip against the material to be broken.
- Apply steady, firm pressure. Do not lean excessively on the tool; allow the tool's impact action to do the work.
- For optimal performance and to reduce vibration, ensure a comfortable and stable stance.

6.3 Stopping the Tool

Release the power switch to stop the tool. Always unplug the tool from the power source when not in use or before performing any adjustments or maintenance.

7. Maintenance

Regular maintenance ensures the longevity and safe operation of your Makita HM1802.

7.1 Cleaning

- Keep the tool's ventilation openings clean to prevent overheating.
- Wipe down the exterior of the tool with a damp cloth. Do not use harsh chemicals or abrasive cleaners.
- Regularly clean the chuck area to prevent dust and debris buildup, which can affect accessory seating.

7.2 Lubrication

Refer to the official Makita service manual for specific lubrication points and schedules. Generally, the chuck mechanism should be lightly greased before each use.

7.3 Carbon Brush Inspection

Carbon brushes are wear items. Inspect them periodically and replace them when they reach their wear limit. This should ideally be done by a qualified service technician.

8. Troubleshooting

Problem	Possible Cause	Solution
Tool does not start.	No power supply; faulty power cord/plug; faulty switch.	Check power connection; inspect cord for damage; contact service center.
Reduced impact force.	Worn accessory; insufficient lubrication; internal wear.	Replace accessory; lubricate chuck; contact service center.
Excessive vibration.	Damaged accessory; internal component issue.	Inspect/replace accessory; contact service center.

For problems not listed above, or if solutions do not resolve the issue, please contact an authorized Makita service center.

9. Standard Equipment

The Makita HM1802 Hex Shank Electric Breaker typically comes with the following standard equipment:

- Bull Point Chisel
- Hex Wrench

Note: Included accessories may vary by region or specific package.

10. Warranty and Support

Makita power tools are manufactured under strict quality control standards. For information regarding warranty coverage, service, or genuine replacement parts, please refer to the warranty card included with your product or visit the official Makita website for your region.
For technical support or service inquiries, please contact your local authorized Makita service center. Always provide the model number (HM1802) and serial number of your tool when seeking support.

Official Makita Website: www.makita.com

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