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Maclean MCE972

Maclean MCE972 Metal Detector Instruction Manual

Model: MCE972

1. INTRODUCTION

This manual provides detailed instructions for the proper assembly, operation, and maintenance of your Maclean MCE972 Metal Detector. Please read this manual thoroughly before using the device to ensure optimal performance and safety.

2. SAFETY WARNINGS

- Use headphones in moderation to protect your hearing.
- Do not use the metal detector near water unless specifically instructed for the waterproof search coil. Ensure the control unit remains dry.
- Always observe local regulations and laws regarding metal detecting activities.
- Keep batteries out of reach of children.

3. PRODUCT OVERVIEW

The Maclean MCE972 is a versatile metal detector designed for various treasure hunting applications. It features a color LCD display, adjustable discrimination, and a waterproof search coil.



Figure 1: Fully assembled Maclean MCE972 Metal Detector. This image displays the complete unit, including the search coil, adjustable shaft, control box, and armrest.

Key Components:

- **Search Coil:** The circular component at the bottom, responsible for detecting metal.
- **Adjustable Shaft:** Allows for length adjustment to suit user height.
- **Control Box:** Houses the electronics, display, and controls.
- **Armrest:** Provides support and comfort during use.
- **Handle:** For gripping the detector.



Figure 2: Close-up view of the control panel and handle. This image highlights the LCD screen, control knobs, and buttons for various settings.



Figure 3: Detailed view of the LCD display. The screen shows indicators for target identification (gold, silver, coins), discrimination levels, and sensitivity settings.



Figure 4: Close-up of the waterproof search coil. This image shows the robust construction of the coil, designed for use in various environments.

4. SETUP AND ASSEMBLY

The Maclean MCE972 is designed for easy assembly. The top part is detachable for convenient transport.

1. **Attach the Search Coil:** Secure the search coil to the lower stem using the provided fasteners.
2. **Connect the Stems:** Insert the lower stem into the middle stem, and then connect the middle stem to the upper stem (which includes the control box and armrest). Adjust the length to a comfortable

position.

3. **Secure the Cables:** Wrap the search coil cable around the stem and plug it into the designated port on the control box. Ensure the cable is not taut.
4. **Install Batteries:** Open the battery compartment on the control box and insert two 9V batteries. Ensure correct polarity. (Batteries are not supplied).



Figure 5: Side view of the metal detector, illustrating the adjustable shaft and arm support. This view helps in understanding the ergonomic design for comfortable use.

5. OPERATING INSTRUCTIONS

5.1 Powering On/Off

Locate the power button or switch on the control box to turn the device on or off.

5.2 Detection Modes

The MCE972 offers two primary detection systems:

- **ALL METAL Non-Motion Mode:** Detects all types of metal without discrimination. This mode is ideal for general searching and maximum depth.
- **Motion-DISC Modes (Discrimination):** Allows the user to differentiate between ferrous (iron) and non-ferrous metals. This helps in filtering out unwanted junk metal.

5.3 Discrimination Adjustment

Use the discrimination controls on the panel to adjust the level of metal rejection. Higher discrimination settings will ignore more common junk metals, while lower settings will detect a wider range of metals, including some iron. The LCD display provides visual feedback on the discrimination settings.

5.4 Sensitivity Adjustment

The device features 12 levels of sensitivity adjustment. Adjusting sensitivity affects the detector's ability to find smaller or deeper targets. In areas with high electromagnetic interference, reducing sensitivity may be necessary to prevent false signals.

5.5 Audio and Visual Signals

The MCE972 provides both acoustic and visual warning signals. Different tones may indicate different types of metal, and the LCD display will show target identification icons (e.g., for coins, gold, silver).

5.6 Headphone Use

A 3.5 mm headphone output is available for private listening or to hear faint signals more clearly in noisy environments.

6. MAINTENANCE

- **Cleaning:** Wipe down the detector with a damp cloth after each use. Avoid using abrasive cleaners or solvents.
- **Battery Replacement:** Replace the 9V batteries when the low battery indicator appears on the display. Always use fresh, high-quality batteries. Remove batteries if the device will not be used for an extended period.
- **Storage:** Store the metal detector in a dry, cool place, away from direct sunlight and extreme temperatures.

7. TROUBLESHOOTING

- **No Power:** Check if the batteries are correctly installed and fully charged.
- **False Signals:** Reduce the sensitivity setting. Move away from sources of electromagnetic interference (e.g., power lines, other electronic devices).
- **Poor Detection Depth:** Ensure the search coil is properly connected. Check battery levels. Adjust sensitivity to a higher level if conditions allow.
- **No Audio:** Check headphone connection if using headphones. Ensure volume is not set to minimum.

8. SPECIFICATIONS

Feature	Specification
Model Number	MCE972

Feature	Specification
Dimensions (L x W x H)	73 x 16 x 23 cm
Weight	1.6 kg
Power Source	2 x 9V batteries (not supplied)
Search Coil Diameter	Approx. 22 cm (8.5 inches)
Search Coil Type	Waterproof
Display	Color LCD (75x40 mm)
Detection Modes	ALL METAL Non-Motion, Motion-DISC
Discrimination	Adjustable for ferrous/non-ferrous metals
Sensitivity Levels	12 levels
Headphone Output	3.5 mm
Max. Detection Depth (Large Objects)	150 cm
Max. Detection Depth (Coins)	30 cm
Adjustable Length	Yes, up to 106 cm extended length

9. WARRANTY INFORMATION

The Maclean MCE972 Metal Detector comes with a 24-month warranty from the date of purchase. Please retain your proof of purchase for warranty claims. The warranty covers manufacturing defects but does not cover damage caused by misuse, accidents, or unauthorized modifications.

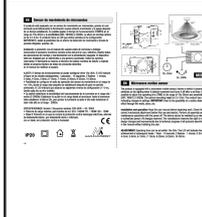
10. CUSTOMER SUPPORT

For further assistance, technical support, or warranty inquiries, please contact Maclean customer service through their official website or the retailer where the product was purchased.

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Related Documents - MCE972

	<p>Maclean MCE447 Solar LED Lamp - User Manual and Specifications</p> <p>Comprehensive guide for the Maclean MCE447 Solar LED Lamp, detailing its features, symbols, assembly, operation, and technical specifications. Includes information on motion sensor modes and environmental ratings.</p>
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	<p>Maclean MCE09 Digital Programmable Timer: User Manual & Specifications</p> <p>User manual for the Maclean MCE09 digital programmable timer, providing detailed instructions on installation, programming, operation modes, and technical specifications for efficient electrical control.</p>
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