

Aneken MD-5050

Aneken MD-5050 Metal Detector User Manual

Comprehensive instructions for assembly, operation, and maintenance of your Aneken MD-5050 Metal Detector.

1. INTRODUCTION

This manual provides detailed instructions for the safe and effective use of your Aneken MD-5050 Metal Detector. Please read this manual thoroughly before operating the device to ensure proper function and to prevent damage.

The Aneken MD-5050 is a high-accuracy, waterproof metal finder designed for both beginners and experienced users. It features multiple search modes, adjustable sensitivity, volume control, and an adjustable rod for comfortable use by various age groups.

2. SAFETY INFORMATION

Always observe the following safety precautions:

- Do not use the metal detector in areas with known unexploded ordnance or dangerous electrical lines.
- Always obtain permission before searching on private property.
- Be aware of your surroundings and potential hazards such as uneven terrain, sharp objects, or wildlife.
- The search coil is waterproof, but the control panel is not. Avoid submerging the control panel in water.
- Remove batteries if the device will not be used for an extended period to prevent leakage.
- Dispose of batteries responsibly according to local regulations.

3. PACKAGE CONTENTS

Verify that all items are present in your package:

- 1 x Aneken MD-5050 Metal Detector unit
- 2 x 9V Batteries
- 1 x User Manual
- (Optional: Folding Shovel, if included in your specific kit)

4. ASSEMBLY

Follow these steps to assemble your Aneken MD-5050 Metal Detector:

1. **Attach the Search Coil:** Connect the search coil to the lower stem. Ensure it is securely fastened.
2. **Connect the Stems:** Insert the lower stem into the middle stem, and then connect the middle stem to the upper stem (control box assembly). Adjust the length as needed.
3. **Secure the Control Box:** Ensure the control box is firmly attached to the upper stem.
4. **Install Batteries:** Open the battery compartment on the control box. Insert the two 9V batteries, observing the correct polarity (+/-). Close the compartment securely.
5. **Wrap the Cable:** Carefully wrap the search coil cable around the stem, ensuring it is not too tight or loose, and plug the connector into the control box.

Professional View Meter Design

Pointer display/pinpoint/volume adjustment/headphone jack



Image: An assembled Aneken MD-5050 Metal Detector, showing the search coil, adjustable stem, and control box. This illustrates the general appearance of the detector once assembled.

5. OPERATING INSTRUCTIONS

5.1. Control Panel Overview



Image: Close-up of the Aneken MD-5050 control panel, showing the sensitivity dial, volume control, DISC knob, pinpoint button, and headphone jack. This image highlights the main operational controls.

- **SENSITIVITY Dial:** Adjusts the detection depth and stability. Higher sensitivity detects deeper objects but can be more susceptible to interference.
- **VOLUME Dial:** Controls the audio output level.
- **DISC (Discrimination) Knob:** Used to eliminate unwanted metals from detection.
- **PINPOINT Button:** Press and hold to narrow down the exact location of a detected object.
- **Headphone Jack:** For connecting 3.5mm headphones for private listening and clearer audio signals.

5.2. Powering On and Basic Operation

1. **Power On:** Rotate the VOLUME dial clockwise until you hear a click. The detector is now on.

2. **Adjust Sensitivity:** Start with a medium sensitivity setting. If the detector is unstable or produces false signals, reduce the sensitivity. Increase sensitivity for deeper detection in stable environments.
3. **Sweep the Coil:** Hold the detector with the search coil parallel to the ground, about 1-2 inches above the surface. Sweep the coil slowly from side to side in overlapping arcs.
4. **Signal Indication:** When a metal object is detected, the pointer on the display will move, and an audio tone will sound.

5.3. Search Modes

The Aneken MD-5050 offers three primary search modes:

- **All-Metal Mode:** Detects all types of metals (iron, gold, silver, copper, aluminum, zinc, nickel). This mode offers the greatest detection depth.
- **DISC Mode (Discrimination):** Allows you to filter out certain types of unwanted metals.
 - Rotate the DISC knob to the **11-12 o'clock position** to shield iron.
 - Rotate the DISC knob to the **1-2 o'clock position** to shield zinc, nickel, and iron.
 - Rotate the DISC knob to the **3-4 o'clock position** to react only to gold and silver.
- **PINPOINT Mode:** After detecting an object, press and hold the PINPOINT button. Move the coil slowly over the target area. The strongest signal (highest pointer deflection and loudest tone) indicates the precise center of the object.

DISC & NOTCH-Modus



Image: An illustration demonstrating the DISC (Discrimination) and NOTCH modes. The left side shows desired items (coins, keys, gold nuggets) being detected, while the right side shows unwanted items (screws, padlocks) being ignored. This visually explains how the discrimination feature works.

5.4. Adjustable Rod

The detector's rod can be adjusted from 39.37 inches to 51.18 inches (100 cm to 130 cm) to accommodate users of different heights, including children and adults. Loosen the locking collar, extend or retract the rod to the desired length, and then tighten the collar to secure it.



Image: A father and child using metal detectors with adjustable rods. The image highlights the adjustable height feature, showing the shortest (39.37 inches) and longest (51.18 inches) settings, making it suitable for both adults and children.

6. MAINTENANCE

- **Cleaning:** Wipe the detector with a damp cloth after each use. Do not use abrasive cleaners or solvents.
- **Water Exposure:** The search coil is waterproof and can be used in shallow water. However, the control panel is not waterproof. Avoid submerging the control panel.
- **Storage:** Store the detector in a dry, cool place when not in use. Remove batteries if storing for an extended period.
- **Battery Care:** Replace batteries when the detector's performance degrades or the low battery indicator (if present) activates. Always use fresh, high-quality 9V batteries.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
No power or no sound.	Batteries are dead or incorrectly installed.	Check battery polarity; replace with fresh 9V batteries.
Detector beeps constantly or gives false signals.	High sensitivity setting; electromagnetic interference; mineralized ground.	Reduce sensitivity; move away from power lines or other electronic devices; try adjusting DISC.
Poor detection depth.	Low sensitivity; dead batteries; incorrect sweep technique.	Increase sensitivity (if stable); replace batteries; ensure slow, even sweeps with coil parallel to ground.
Cannot pinpoint target accurately.	Incorrect use of PINPOINT mode.	Press and hold PINPOINT, then move the coil slowly in a cross pattern over the target area to find the strongest signal.

8. SPECIFICATIONS

- **Model:** MD-5050
- **Brand:** Aneken
- **Detection Modes:** All-Metal, DISC (Discrimination), Pinpoint
- **Search Coil:** 8.5-inch, Waterproof
- **Detection Depth:** Up to 7.1 inches (18 cm) for an 8.5-inch coil (experimental conditions)
- **Adjustable Rod Length:** 39.37 inches to 51.18 inches (100 cm to 130 cm)
- **Power Source:** 2 x 9V Batteries (included)
- **Headphone Jack:** 3.5mm
- **Display Type:** Pointer Display
- **Weight:** Approximately 952.54 grams (2.1 lbs)
- **Material:** Metal
- **International Protection Rating:** IP68 (for search coil only)

9. WARRANTY AND SUPPORT

Aneken provides a **2-year warranty** for the MD-5050 Metal Detector. This warranty covers manufacturing defects and malfunctions under normal use. It does not cover damage caused by misuse, accidents, unauthorized modifications, or improper maintenance.

Additionally, Aneken offers **60-day refunds** and **lifetime technical support**. For any questions, technical assistance, or warranty claims, please contact Aneken customer service via the platform where you purchased the product.

Please retain your proof of purchase for warranty purposes.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

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After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question