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› KENTOKTOOL Kids Metal Detector User Manual

KENTOKTOOL 413

KENTOKTOOL Kids Metal Detector User Manual

Model: 413

INTRODUCTION

This user manual provides comprehensive instructions for the KENTOKTOOL Kids Metal Detector. Designed for young explorers, this lightweight and accurate metal detector features an 8-inch waterproof coil and an adjustable stem, making it suitable for various treasure hunting environments. Please read this manual thoroughly before operating the device to ensure safe and effective use.



Image: The KENTOKTOOL Kids Metal Detector, showcasing its main unit, search coil, and included accessories like a shovel, rake, and carrying backpack.

SETUP

The KENTOKTOOL Kids Metal Detector is designed for easy assembly. Follow these steps to prepare your detector for use:

1. **Unpack Components:** Carefully remove all components from the packaging. Ensure you have the main control unit, adjustable stem sections, search coil, and any included accessories.
2. **Attach Search Coil:** Connect the search coil to the lower stem section. Secure it firmly using the provided knob or fastener.
3. **Assemble Stem:** Connect the stem sections together. The detector features an adjustable stem, allowing you to customize the length from 32 to 41 inches to suit the user's height.
4. **Connect Control Unit:** Attach the main control unit to the upper stem section. Ensure the cable from the search coil

is properly routed and connected to the control unit's port. The internal wiring design prevents cable damage and ensures a clean appearance.

5. **Install Batteries:** The detector requires batteries for operation. Open the battery compartment on the control unit and insert the required batteries, observing correct polarity.
6. **Adjust Arm Rest:** Position the ergonomic wrist rest and grip for comfortable use, ensuring it fits the child's arm length.



Image: Step-by-step visual guide demonstrating the assembly process of the metal detector, from connecting the search coil to attaching the main control unit.

OPERATING INSTRUCTIONS

The KENTOKTOOL Kids Metal Detector is equipped with a user-friendly LCD display and intuitive controls for effective metal detection.

Control Panel Overview

Intuitive LCD Display & Easy to Use

- 1 Power Switch (ON/OFF)
- 2 Backlight ON/OFF
- 3 DISC Mode
- 4 Find Icons (x 3)
- 5 Visual Indicator
- 6 Overload Warning
- 7 Low Battery Indicator



Image: Detailed view of the control panel, highlighting the power switch, backlight button, DISC mode button, and the LCD screen with indicators for detected metals, depth, overload, and low battery.

- **Power Switch (ON/OFF):** Press to turn the detector on or off.
- **Backlight ON/OFF:** Activates or deactivates the display backlight for visibility in different lighting conditions.
- **DISC Mode:** Discriminates against unwanted metal signals, allowing the detector to ignore certain types of metal (e.g., iron trash).
- **Find Icons:** Visual indicators on the LCD display that represent different types of detected metals (e.g., iron, 5-cent coin, 10/25-cent coin).
- **Visual Indicator:** Provides a visual representation of signal strength and depth.
- **Overload Warning:** Indicates when the signal is too strong, suggesting the coil is too close to a large metal object.
- **Low Battery Indicator:** Notifies the user when batteries need replacement.

Detection Modes

The detector offers two primary detection modes:

- **All Metal Mode:** Detects all types of metal objects. This mode is ideal for general searching when you want to find any metallic item.
- **DISC Mode (Discrimination):** This mode allows you to filter out unwanted metal signals. By activating DISC mode, the detector can ignore common trash metals like iron, focusing only on more valuable targets.



Image: Illustration of the discrimination feature, showing how the detector can ignore specific metal types while searching for others.

Audio Feedback

The detector provides distinct audio tones to indicate the type and depth of detected metals:

- **Low Tone:** Typically indicates ferrous metals (iron).
- **Mid Tone:** Often indicates small non-ferrous metals or certain coins.
- **High Tone:** Generally indicates larger non-ferrous metals or valuable coins.
- **Volume Variation:** The volume of the beep will vary based on the depth of the object. Louder beeps usually mean the object is closer to the surface.

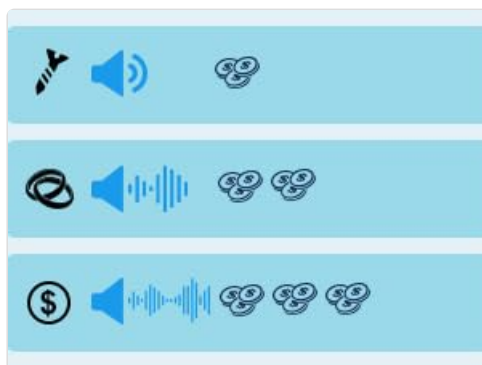


Image: Visual representation of the audio feedback system, showing how different tones correspond to different metal types and signal strengths.

Detection Depth and Waterproof Coil

The detector can identify objects up to 5 inches underground. Its 8-inch search coil features IP68 hot melt sealed waterproof technology, allowing for underwater treasure hunting in shallow areas. **Note: The control unit is NOT waterproof and should not be submerged.**

Search underground for mysterious treasures



Image: Illustration demonstrating the detector's ability to find objects up to 5 inches deep underground.

8 inch Large Coil and IP68 Waterproof

Help you find underwater treasures

Note: the controller is not waterproof ►



Image: The 8-inch search coil submerged in water, highlighting its IP68 waterproof rating for shallow water detection. The note reminds users that the control unit is not waterproof.

Adjustable Stem

The detector's stem is adjustable from 32 to 41 inches, accommodating users between 3'2" and 5'8" tall. This feature ensures comfortable use for a wide range of ages and heights.

ADJUSTABLE STEM

Adjustable lengths range from 32 to 41 inches and are suitable for heights from 3'2" to 5'8".



Image: Comparison showing the adjustable stem at its minimum (32 inches) and maximum (41 inches) lengths, suitable for different user heights.

MAINTENANCE

Proper maintenance will extend the life and performance of your KENTOKTOOL Kids Metal Detector.

- **Cleaning:** After each use, especially in sandy or wet conditions, wipe down the search coil and stem with a damp cloth. Ensure the control unit remains dry. Do not use abrasive cleaners or solvents.
- **Battery Care:** Remove batteries if the detector will not be used for an extended period to prevent leakage and damage. Store batteries in a cool, dry place.
- **Storage:** Store the metal detector in a dry, cool environment, away from direct sunlight and extreme temperatures. The included backpack can be used for convenient storage and transport.
- **Coil Protection:** Avoid dragging the search coil directly on rough surfaces to prevent scratches and damage.

TROUBLESHOOTING

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

Problem	Possible Cause	Solution
No Power / Detector Not Turning On	- Dead or incorrectly installed batteries. - Loose connection to control unit.	- Check battery polarity and replace with fresh batteries. - Ensure all cable connections are secure.
Erratic Signals / False Alarms	- Electromagnetic interference (EMI) from power lines, cell phones, or other electronics. - Highly mineralized ground. - Coil hitting objects.	- Move away from sources of EMI. - Try adjusting sensitivity if available (not explicitly mentioned, but common). - Ensure smooth sweeping motion and avoid hitting the coil on obstacles.
Poor Detection Depth	- Low batteries. - Incorrect ground balance (if applicable, not explicitly mentioned). - Small target size.	- Replace batteries. - Ensure proper sweeping technique. - Note that very small objects may have limited detection depth.
DISC Mode Not Working Effectively	- Incorrect DISC setting. - Target signal too strong.	- Ensure DISC mode is properly activated. - Move the coil slightly away from the target if it's causing an overload.

SPECIFICATIONS

Feature	Detail
Brand	KENTOKTOOL
Model Number	413
Color	Blue
Material	Copper
Power Source	Battery Powered (Batteries Required: Yes)
Product Dimensions (L x W x H)	7.8"L x 7.8"W x 42"H
Adjustable Length	32 - 41 Inches
International Protection Rating	IP68 (for search coil)
Operating Frequency	9 KHz
Search Coil Size	8 Inches
Item Weight	3.74 pounds
Display Type	LCD
Maximum Detection Depth	5 inches (underground)

WARRANTY AND SUPPORT

KENTOKTOOL is committed to providing quality products and customer satisfaction. While specific warranty details are not provided in this manual, KENTOKTOOL offers professional technical support to assist with any issues or questions you may have.

For technical assistance or inquiries, please contact KENTOKTOOL's support team. They are available to help 7 days a week, 24 hours a day.

For additional information, you may refer to the official[User Guide \(PDF\)](#).