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› MINELAB X-Terra 505 Metal Detector User Manual

MINELAB 3705-0113

MINELAB X-Terra 505 Metal Detector User Manual

Model: 3705-0113

Brand: MINELAB

INTRODUCTION

The Minelab X-TERRA 505 is a versatile and user-friendly metal detector designed for both beginners and experienced enthusiasts. It combines a lightweight design with advanced detection technology, making it suitable for various treasure hunting conditions. Its VFLEX technology allows for seamless frequency changes by swapping detector coils, enhancing its immunity to external interference and providing more targeted detection.



Figure 1: The Minelab X-Terra 505 Metal Detector, showcasing its main components including the search coil and control unit.

SETUP AND ASSEMBLY

Before operating your X-TERRA 505, ensure proper assembly and battery installation. The detector is designed for easy setup.

1. Battery Installation

The X-TERRA 505 requires 4 AA batteries. Locate the battery compartment on the control unit. Open the compartment, insert the batteries according to the polarity indicators, and securely close the cover.

2. Assembling the Detector

1. Attach the lower stem to the search coil using the provided bolt and wing nut. Ensure it is secure but do not overtighten.
2. Connect the middle stem to the lower stem.
3. Slide the control unit onto the upper stem and secure it.
4. Wrap the search coil cable around the stem, ensuring it is not too tight, and plug the connector into the control unit's designated port.
5. Adjust the stem length to a comfortable position for your height, allowing the search coil to be parallel to the ground when sweeping.



Figure 2: Detailed view of the X-Terra 505 control panel, showing the LCD screen and various control buttons for operation.

OPERATING INSTRUCTIONS

The X-TERRA 505 offers intuitive controls for effective metal detection. Familiarize yourself with the main functions:

Powering On/Off

Press and hold the power button (usually marked with a circle and vertical line) on the control unit to turn the detector on or off.

VFLEX Technology and Coil Compatibility

The X-TERRA 505 utilizes VFLEX technology, which automatically adjusts the operating frequency when you change compatible coils. This allows for specialized detection based on the coil used. While it comes with a 9" coil, other X-TERRA coils can be used to target different types of metals and depths.

Target ID and Discrimination

The detector provides a Target ID to help identify potential targets before digging. You can choose between 4 tone IDs and utilize 19 response options. Customize detection patterns to discriminate against unwanted items (like trash) and focus on valuable targets.

Ground Balancing

The X-TERRA 505 features increased ground balancing capabilities, allowing for stable operation even in highly mineralized ground conditions. Refer to the on-screen prompts or the full PDF manual for detailed ground balancing procedures specific to your environment.



Figure 3: An individual using the Minelab X-Terra 505 in a natural outdoor setting, demonstrating typical field usage.



Figure 4: Another view of the metal detector in use, highlighting its portability and ease of handling in varied terrain.

KEY FEATURES

- **VFLEX TECHNOLOGY:** Ideal for beginners, the X-TERRA 505 is lightweight and simple to use. Powered with VFLEX technology, it automatically changes frequency when you change coils for more targeted detection and enhanced immunity to outside interference.
- **COIL COMPATIBILITY:** While this metal detector comes with a powerful 9" coil, it also works with all of our X-TERRA finder coils. Simply switch to another compatible coil to find different types of metals at a variety of depths with this metal detector.
- **TARGET ID:** Choose between 4 tone IDs with advanced noise canceling, 19 response options and customized detection patterns to sort through trash and treasure.
- **GROUND BALANCING:** This high-power machine has increased ground balancing, allowing you to detect regardless of mineralization.
- **LIGHTWEIGHT:** Weighing only 2.9 lbs (1.3 kg), this metal detector is easy to carry during long detecting sessions.

SPECIFICATIONS

Attribute	Value
Brand	MINELAB
Model Number	3705-0113
Color	black, red

Attribute	Value
Batteries Required?	Yes (4 AA batteries)
Material	Metal
Power Source	Battery Powered
Item Weight	2.9 Pounds (1.3 kg)
Extended Length	1420 Millimeters
Adjustable Length	Yes
International Protection Rating	IP54
Operating Frequency	7.5 KHz
Recommended Uses	Metal Detection
Display Type	LCD
Number of Programs	5
Search Coil Size	9 Inches
Product Dimensions	23.25 x 11.5 x 3.25 inches
UPC	811493012957

MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your X-TERRA 505 metal detector.

- **Cleaning:** After each use, especially in dirty or wet conditions, wipe down the search coil and stem with a damp cloth. Avoid using harsh chemicals or abrasive cleaners on any part of the detector.
- **Battery Care:** Always remove batteries if the detector will not be used for an extended period to prevent leakage and damage.
- **Storage:** Store the detector in a dry, cool place, away from direct sunlight and extreme temperatures. If possible, store it disassembled or with the coil detached to reduce strain on the cable.
- **Coil Protection:** Consider using a coil cover to protect the search coil from scratches and impacts during use.

TROUBLESHOOTING

If you encounter issues with your X-TERRA 505, refer to the following common problems and solutions:

Problem	Possible Cause / Solution
Detector does not power on.	Check battery installation and ensure batteries are fresh. Verify battery compartment is securely closed.

Problem	Possible Cause / Solution
Erratic signals or false positives.	Perform ground balance. Check for electromagnetic interference from power lines, cell phones, or other electronic devices. Ensure search coil cable is not loose or damaged.
No target response.	Check sensitivity settings; they might be too low. Ensure the search coil is properly connected. Verify the discrimination settings are not too high, potentially filtering out desired targets.
Poor depth detection.	Adjust sensitivity to a higher level. Ensure proper ground balance. Consider the type of soil and target size.

For more detailed troubleshooting or issues not listed here, please refer to the comprehensive user manual PDF or contact MINELAB customer support.

WARRANTY AND SUPPORT

MINELAB products are manufactured to high standards and come with a manufacturer's warranty. For specific warranty terms and conditions, please refer to the documentation included with your product or visit the official MINELAB website. For further assistance, technical support, or to download the full user manual, please visit the official MINELAB support page or refer to the provided PDF manual:

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