Garrett Metal Detectors Goldmaster 24k

Garrett Goldmaster 24k Metal Detector User Manual

Model: Goldmaster 24k
Brand: Garrett Metal Detectors

Introduction

This manual provides detailed instructions for the assembly, operation, maintenance, and troubleshooting of your Garrett Goldmaster 24k metal detector. Please read this manual thoroughly before using your device to ensure optimal performance and longevity.

Safety Information

- Always be aware of your surroundings when metal detecting.
- Do not trespass on private property without explicit permission.
- Exercise caution when digging to avoid injury or damage to underground utilities.
- Dispose of any found trash responsibly.

Components

Your Garrett Goldmaster 24k package typically includes the following items:

- Goldmaster 24k Control Housing
- Search Coil (e.g., 6x10 inch DD elliptical searchcoil)
- Lower Stem, Middle Stem, Upper Stem
- Arm Cuff
- Wired Headphones
- Hardware for assembly (bolts, washers)



Image: The main components of the Garrett Goldmaster 24k metal detector, including the control box, search coil, and stem sections, laid out for assembly.

Setup and Assembly

1. **Attach the Search Coil:**

   Connect the search coil to the lower stem using the provided bolt and washers. Ensure it is secure but allows for slight angle adjustment. The closed surface coil is designed for efficient recovery of small gold.



Image: A close-up of the search coil attached to the lower stem, illustrating the connection point and its design.

2. **Assemble the Stem:**

   Slide the middle stem into the lower stem, and then the upper stem into the middle stem. Adjust the length for comfortable operation, ensuring the locking collars are tightened.

3. **Mount the Control Housing:**

   Secure the control housing to the upper stem. Wrap the search coil cable snugly around the stem, leaving enough slack for coil movement, and plug it into the control housing. Ensure the connector is finger-tight.

4. **Install Batteries:**

   Open the battery compartment on the control housing and insert the required batteries (typically 4 AA batteries). Ensure correct polarity as indicated inside the compartment.

5. **Connect Headphones:**

   Plug the wired headphones into the designated jack on the control housing. Using headphones helps in hearing subtle target signals and conserves battery life.



Image: A user wearing wired headphones while operating the Garrett Goldmaster 24k metal detector in an outdoor setting, demonstrating proper use.

Operating Instructions

Powering On and Basic Controls

To power on the Goldmaster 24k, press and hold the power button. The display will illuminate, showing current settings and indicators. Familiarize yourself with the control panel layout.



Image: The control panel of the Goldmaster 24k, highlighting features such as the Large Digital Target ID, Backlight, Pinpoint button, Volume Adjustment, and Iron Cancel button.

Key Features

- **High Frequency (48 kHz):**
  The Goldmaster 24k operates at a high frequency of 48 kHz, which is specifically optimized for detecting small, low-conductive targets like gold nuggets. This frequency enhances sensitivity to fine gold.



Image: An illustration emphasizing the 48 kHz operating frequency and its effectiveness in detecting various sizes of gold, from small flakes to larger nuggets.

- **Large Digital Target ID:**
  The display provides a large digital target identification number (VDI), which helps in identifying the probable type of metal detected before digging. Higher numbers generally indicate more conductive targets.
- **Backlight:**
  Activate the backlight for improved visibility of the display in low-light conditions or bright sunlight.
- **Pinpoint Function:**
  Use the pinpoint button to narrow down the exact location of a detected target. This feature provides a continuous tone that peaks directly over the target, aiding in precise recovery.
- **Volume Adjustment:**
  Adjust the audio volume of the detector to suit your preference and the ambient noise level of your environment.
- **Iron Cancel:**
  This feature helps eliminate or reduce signals from unwanted iron targets and hot rocks, allowing you to focus on more valuable non-ferrous targets like gold.

Ground Balance

Proper ground balancing is crucial for optimal performance, especially in highly mineralized ground common in gold prospecting areas. The Goldmaster 24k features advanced ground tracking. Refer to the on-screen prompts and your quick-start guide for specific ground balancing procedures to calibrate the detector to the soil conditions.

Maintenance

- **Cleaning:**
  After each use, wipe down the detector with a damp cloth to remove dirt and debris. Avoid using abrasive cleaners, solvents, or harsh chemicals, as these can damage the unit.
- **Battery Care:**
  Remove batteries if the detector will not be used for an extended period (more than 30 days) to prevent potential battery leakage and corrosion.
- **Storage:**
  Store the detector in a cool, dry place, away from direct sunlight and extreme temperatures. Disassemble the stem if necessary for compact storage.
- **Coil Protection:**
  Consider using a coil cover (often included or sold separately) to protect the search coil from scratches and abrasion, especially when detecting in rocky terrain.

Troubleshooting

No Power

- Check battery installation and ensure batteries are fresh and correctly oriented.
- Verify battery compartment contacts are clean and free of corrosion.

Erratic Signals or False Signals

- Re-ground balance the detector, especially if moving to a new area with different soil mineralization.
- Ensure the search coil cable is wrapped tightly around the stem and not swinging freely, which can cause false signals.
- Check for nearby sources of electromagnetic interference (EMI) such as power lines, cell phones, or other electronic devices. Move away from these sources if possible.
- Reduce sensitivity settings if operating in highly mineralized ground or areas with high EMI.

Poor Depth Detection

- Ensure proper ground balance for the current soil conditions.
- Increase sensitivity settings if environmental conditions allow (i.e., low EMI, moderate mineralization).
- Check for proper search coil connection to the control housing. A loose connection can reduce performance.
- Ensure the search coil is parallel to the ground and swept at a consistent height.

Specifications

Feature	Detail
Brand	Garrett Metal Detectors
Model Number	Goldmaster 24k
Operating Frequency	48 kHz
Power Source	Battery Powered (Batteries Required: Yes)
Material	Aluminum
Item Weight	7.26 pounds
Package Dimensions	30.5 x 9.5 x 5.5 inches
Search Coil Size	11.66 Centimeters
Recommended Uses	Metal Detection, Mineral Detection
UPC	786156900097

Warranty and Support

Garrett Metal Detectors provides a limited warranty for the Goldmaster 24k. For specific warranty terms and conditions, including duration and coverage details, please refer to the warranty card included with your product or visit the official Garrett Metal Detectors website.

For technical support, service, or replacement parts, please contact Garrett Metal Detectors customer service directly.

Their support team can assist with any operational questions or issues you may encounter.

You can find more information and support resources on the official Garrett Metal Detectors website:www.garrett.com

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

Email

you@example.com

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