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### long range Ace 400i

# Garrett Ace 400i Metal Detector User Manual

MODEL: ACE 400i

## Introduction

The Garrett Ace 400i is an advanced metal detector designed for efficient and comfortable exploration. It incorporates new technologies for distinguishing between metals and offers enhanced depth capabilities. This manual will guide you through the proper setup, operation, and maintenance of your device to ensure optimal performance.



Image: The Garrett Ace 400i Metal Detector, showcasing its main components and included accessories such as the search coil, control box, headphones, and a carrying bag.

## Setup

Before using your Garrett Ace 400i, proper assembly is required. Follow these steps to set up your detector:

1. **Assemble the Shaft:** Connect the lower, middle, and upper shaft sections. Ensure they are securely locked into place. The adjustable length feature allows you to customize the detector's height for comfortable use.
2. **Attach the Search Coil:** Securely attach the 9 x 6 inch PROformance DD search coil to the lower shaft using the provided bolt and washers. Ensure the coil cable is wrapped snugly around the shaft.
3. **Mount the Control Box:** Slide the control box onto the upper shaft. Connect the search coil cable to the control box.
4. **Install Batteries:** The device requires batteries for operation. Open the battery compartment on the control box and insert the required batteries, ensuring correct polarity.
5. **Connect Headphones:** If using headphones, plug them into the headphone jack on the control box.



Image: An assembled Garrett Ace 400i Metal Detector, illustrating the connection points of the search coil, adjustable shaft, and the main control box.

## Operating Instructions

The Garrett Ace 400i features an intuitive LCD screen and control buttons for easy operation. Familiarize yourself with the following functions:

- **Power On/Off:** Press and hold the power button to turn the device on or off.
- **LCD Screen:** The large LCD screen displays important information such as target ID, depth indicator, sensitivity level, and battery charge status.
- **Sensitivity Settings:** The device offers 8 sensitivity settings. Adjust sensitivity to suit desired depths and ground conditions. Higher sensitivity increases depth but may also increase false signals.
- **Discrimination (DISCRIM):** Use the discrimination feature to exclude non-precious metals. The graphic indicator shows 12 degrees of discrimination, allowing you to filter out unwanted targets like iron.
- **Target ID:** The graphic target ID and numerical display help identify the type of metal detected. The device also determines the center of the target for precise pinpointing.

- **Audio Tones:** The Ace 400i provides 3 levels of distinct audio tones to indicate different types of metals.
- **Frequency Adjustment (FREQ ADJ):** This feature allows you to shift the operating frequency slightly to minimize interference from other detectors or electrical sources. The operating frequency is 7.69 KHz.
- **Select Programs:** Choose from various pre-set detection programs (e.g., ZERO-DISC, JEWELRY, CUSTOM, RELICS, COINS) using the touch method.



Image: A detailed view of the Garrett Ace 400i control panel, highlighting the LCD screen with target identification segments, sensitivity bar, depth indicator, and the various control buttons for mode selection, discrimination, and frequency adjustment.

## Maintenance

Proper maintenance will extend the life and performance of your Garrett Ace 400i:

- **Cleaning:** After each use, wipe down the search coil and shaft with a damp cloth. Avoid using harsh chemicals or abrasive cleaners. The search coil is waterproof (IP66 rated), but the control box is not.
- **Battery Care:** Remove batteries if the detector will not be used for an extended period to prevent leakage. Always use fresh, high-quality batteries.
- **Storage:** Store the detector in a dry, cool place, away from direct sunlight and extreme temperatures.
- **Coil Protection:** While the coil is waterproof, avoid unnecessary impacts or dragging it over rough surfaces.

## Troubleshooting

If you encounter issues with your Garrett Ace 400i, consider the following common problems and solutions:

- **No Power:** Check battery installation and ensure batteries are fresh.

- **Erratic Signals/False Signals:**

- Reduce sensitivity setting.
- Perform a frequency adjustment to minimize electrical interference.
- Ensure the search coil cable is tightly wrapped around the shaft and securely connected to the control box.

- **Poor Depth:**

- Increase sensitivity setting.
- Ensure the coil is parallel to the ground during sweeps.

- **No Audio:** Check headphone connection and volume settings.

If problems persist, consult the manufacturer's support resources.

## Specifications

Feature	Specification
Brand	long range
Model	Ace 400i
Power Source	Battery Powered (Batteries Required: Yes)
Material	Metal
Adjustable Length	Yes
International Protection Rating	IP66 (Waterproof Coil)
Operating Frequency	7.69 KHz
Recommended Uses	Metal Detection
Display Type	LCD
Manufacturer	Ger Detect
UPC	786724922650
ASIN	B0BKTF86R

## Warranty and Support

For specific warranty information regarding your Garrett Ace 400i Metal Detector, please refer to the documentation provided at the time of purchase or contact the manufacturer, Ger Detect, directly. Warranty terms typically cover manufacturing defects for a specified period.

For technical support, troubleshooting beyond this manual, or inquiries about replacement parts, please contact the seller or the manufacturer's customer service department. Keep your purchase receipt or proof of purchase handy when contacting support.

