Garrett Metal Detectors Apex

Garrett ACE Apex Metal Detector User Manual

Model: ACE Apex with 6x11 DD Multi-Flex Viper Search Coil

1. Introduction

This manual provides essential information for the proper assembly, operation, maintenance, and troubleshooting of your Garrett ACE Apex Metal Detector. Please read this manual thoroughly before using the device to ensure optimal performance and longevity.



Image 1.1: A user operating the Garrett ACE Apex metal detector in an outdoor environment.

2. Product Overview

The Garrett ACE Apex is an advanced metal detector designed for various treasure hunting applications. It features Multi-Flex technology, allowing for versatile frequency selection, and a lightweight, rechargeable design for extended use.

Key Features:

- **Multi-Flex Technology:** Offers selectable frequencies (5 kHz, 10 kHz, 15 kHz, 20 kHz) plus Multi-Frequency and Multi-Salt modes for optimized target detection in diverse ground conditions.
- **Iron Volume Control:** Allows independent adjustment of iron target audio volume, enabling clearer identification of desirable signals.
- **Z-Lynk Wireless Technology:** Provides real-time, cable-free audio transmission, six times faster than standard Bluetooth.
- **Viper Searchcoil:** Equipped with a 6" x 11" DD coil for broad coverage and enhanced target separation in areas with high metallic clutter.

- **Rechargeable & Lightweight:** Features a built-in lithium-ion battery providing up to 15 hours of operation, with a total weight of approximately 2.5 lbs (1.13 kg).

Components:

The Garrett ACE Apex metal detector typically includes the following components:

- Control Box with integrated display
- Adjustable Stem
- 6x11 DD Multi-Flex Viper Search Coil
- Search Coil Cover
- Arm Cuff
- Charging Cable
- Coil Mounting Hardware



Image 2.1: All primary components of the Garrett ACE Apex metal detector, including the control box, search coil, stem, arm cuff, and accessories.



Image 2.2: Detailed view of the 6x11 DD Multi-Flex Viper Search Coil.

3. Setup

3.1 Assembly

1. **Attach the Search Coil:** Secure the Viper search coil to the lower stem using the provided non-metallic bolt and thumb nut. Ensure it is snug but do not overtighten.
2. **Connect Stems:** Slide the lower stem into the middle stem, and then the middle stem into the upper stem (which has the control box and arm cuff). Adjust the length for comfortable operation.
3. **Wrap Coil Cable:** Wrap the search coil cable snugly around the stem, leaving enough slack near the coil for adjustment. Plug the coil connector into the receptacle on the control box. Ensure the connection is secure.
4. **Adjust Arm Cuff:** Position the arm cuff for a comfortable fit on your forearm.

3.2 Charging the Battery

The ACE Apex is equipped with a built-in rechargeable lithium-ion battery. Before first use, fully charge the detector.

1. Locate the charging port on the control box.
2. Connect the provided charging cable to the port and a suitable USB power source (e.g., wall adapter, computer USB port).
3. The battery indicator on the display will show charging status. A full charge typically takes several hours.
4. Disconnect the charger once the battery is fully charged. The battery provides up to 15 hours of continuous operation.

4. Operating Instructions

4.1 Power On/Off

- **Power On:** Press and hold the **POWER** button (usually labeled 'Operate') for approximately one second.
- **Power Off:** Press and hold the **POWER** button until the unit powers down.

4.2 Understanding the Display

The LCD provides critical information for target identification and detector settings.



Image 4.1: The control panel display of the Garrett ACE Apex, illustrating target legend, target depth, search modes, and pinpoint function.

- **Target ID (Digital):** A two-digit number (0-99) indicating the conductivity of the detected target. Higher numbers generally correspond to more conductive metals.
- **Target Legend:** A graphical scale at the top of the display categorizing common targets (e.g., Iron, Foil, Non-Ferrous, Silver).
- **Target Depth:** Indicates the approximate depth of the target in inches.
- **Discrimination Notch:** Shows which target segments are currently discriminated (ignored).
- **Battery Indicator:** Displays the remaining battery life.

4.3 Search Modes

The ACE Apex offers multiple search modes to optimize performance for different environments and target types. Press the **MODE** button to cycle through available modes.

- **5 kHz, 10 kHz, 15 kHz, 20 kHz:** Single frequency options for specific target responses. Lower frequencies are generally better for larger, deeper targets, while higher frequencies are better for smaller, shallower targets and low-conductivity metals.
- **Multi-Frequency:** Simultaneously uses multiple frequencies to provide a balanced detection capability across a wide range of targets and ground conditions.
- **Multi-Salt:** Optimized for highly mineralized saltwater environments, reducing false signals caused by salt.

4.4 Iron Volume Control

Press the **IRON AUDIO** button to adjust the volume of ferrous (iron) targets. This allows you to hear iron signals at a reduced volume, helping to identify desirable targets near iron without completely masking them.

4.5 Z-Lynk Wireless (Optional)

If using Garrett Z-Lynk wireless headphones, ensure they are paired with the detector. Refer to your Z-Lynk headphone manual for pairing instructions. The Z-Lynk system provides low-latency audio for precise target response.

4.6 Pinpointing

After detecting a target, press and hold the **PINPOINT** button. Move the coil slowly over the target area. The audio tone will peak, and the depth indicator will become more precise as you center the coil directly over the target.

4.7 Ground Balance

Ground balancing is crucial for stable operation and accurate depth readings. The ACE Apex features automatic ground balance. For manual adjustment or to fine-tune, refer to the detailed instructions in the full Garrett ACE Apex manual.

4.8 Submersible Use

The ACE Apex search coil is submersible. The control box is weather-resistant but not fully submersible. Avoid submerging the control box. When detecting in shallow water, ensure the control box remains above the waterline.



Image 4.2: A user demonstrating the use of the submersible search coil in a shallow water environment.

5. Maintenance

5.1 Cleaning

- After each use, wipe down the detector with a damp cloth to remove dirt, dust, or salt residue.
- Do not use abrasive cleaners or solvents, as these can damage the display or housing.
- Ensure the search coil and cable connections are free of debris.

5.2 Storage

- Store the detector in a cool, dry place away from direct sunlight and extreme temperatures.
- If storing for an extended period, ensure the battery is partially charged (around 50%) to prolong its lifespan. Avoid storing with a completely depleted or fully charged battery.

5.3 Battery Care

- Recharge the battery as needed. Avoid frequent deep discharges.
- Use only the provided charging cable or a compatible USB charger.
- Do not attempt to replace the internal lithium-ion battery yourself. Contact Garrett customer support for battery service.

6. Troubleshooting

If you encounter issues with your Garrett ACE Apex, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Detector does not power on	Depleted battery	Charge the battery fully.
Erratic signals or false positives	High ground mineralization, electromagnetic interference, incorrect sensitivity	Perform ground balance. Reduce sensitivity. Move away from power lines or other electronic devices.
No audio from headphones	Headphones not paired (Z-Lynk), low headphone battery, faulty connection	Ensure Z-Lynk headphones are paired and charged. Check wired headphone connection if applicable.
Poor depth detection	Incorrect ground balance, high discrimination, low sensitivity	Re-ground balance. Reduce discrimination. Increase sensitivity gradually.

For further assistance, please contact Garrett customer support.

7. Specifications

The following are the technical specifications for the Garrett ACE Apex Metal Detector:

- **Brand:** Garrett Metal Detectors
- **Model:** ACE Apex (GMD-1142320)
- **Power Source:** Battery Powered (1 Lithium Polymer battery, included)
- **Battery Life:** Up to 15 Hours
- **Operating Frequencies:** 5 kHz, 10 kHz, 15 kHz, 20 kHz, Multi-Frequency, Multi-Salt
- **Search Coil:** 6" x 11" DD Multi-Flex Viper Search Coil
- **Material:** Iron, Metal
- **Item Weight:** 2.5 lbs (1.13 kg)
- **Product Dimensions:** 22"L x 11"W x 5"H (approximate, assembled)
- **Adjustable Length:** Yes
- **International Protection Rating:** IP54 (Weather-resistant control box, submersible coil)
- **UPC:** 786156005709

8. Warranty and Support

8.1 Warranty Information

Garrett Metal Detectors typically offers a limited warranty on its products. Based on available information, the ACE Apex may include a 3-year protection period. Please refer to the official Garrett website or the warranty card

included with your product for specific terms, conditions, and registration requirements.



Image 8.1: Illustration highlighting Garrett's 3-year protection and manufacturing origin.

8.2 Customer Support

For technical assistance, service, or warranty claims, please contact Garrett Metal Detectors customer support through their official website or the contact information provided in your product packaging. Ensure you have your model number (ACE Apex) and serial number ready when contacting support.

Garrett Metal Detectors Official Website: www.garrett.com

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