Garrett Metal Detectors VX7

Garrett Vortex VX7 Metal Detector User Manual

MD-MF Technology, Waterproof to 16 ft

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1. Introduction to the Garrett Vortex VX7

The Garrett Vortex VX7 is a professional-grade metal detector designed for diverse environments, including saltwater and mineralized soils. It incorporates MD-MF (Multi-Dimensional Multi-Frequency) technology for deep and precise target analysis. This manual provides essential information for the assembly, operation, maintenance, and troubleshooting of your VX7 detector.

Key Features:

- **Multi-Salt Mode & MD-MF Technology:** Optimized for detection in saltwater and mineralized ground conditions with advanced multi-frequency analysis.
- **Built-in Z-Lynk Wireless:** Enables fast, cable-free audio pairing with compatible Garrett wireless headphones (sold separately).
- **Multiple Search Modes:** Includes Beach, Coins, Zero, Custom, and Standard modes, along with a pinpoint function for accurate target recovery.
- **Customizable Detection Speed:** Adjustable reactivity for improved target separation in areas with high metallic clutter.
- **Upgradeable to VX9:** Software upgrade path available for enhanced features and performance.

2. Setup and Assembly

Follow these steps to correctly assemble your Garrett Vortex VX7 metal detector.

2.1 Package Contents:

- Vortex VX7 Control Housing
- Adjustable Shaft Assembly
- 8.5" x 11" DD Searchcoil
- Searchcoil Hardware (bolt, washers, nut)
- USB Charging Cable



Figure 1: Garrett Vortex VX7 Metal Detector with included accessories, including the control unit, searchcoil, shaft, and charging cable.

2.2 Assembly Steps:

1. **Attach Searchcoil:** Align the searchcoil with the lower shaft. Insert the two rubber washers into the clevis, then pass the bolt through the clevis and searchcoil mounting tabs. Secure with the thumb nut. Do not overtighten.
2. **Connect Searchcoil Cable:** Wrap the searchcoil cable snugly around the lower and middle shaft sections, ensuring it is not loose. Plug the cable connector into the receptacle on the control housing.

Hand-tighten the collar until secure.

3. **Assemble Shaft:** Connect the middle shaft to the upper shaft, ensuring the spring clips engage. Adjust the length of the shaft to a comfortable operating position using the camlocks.
4. **Mount Control Housing:** Slide the control housing onto the upper shaft. Secure it in place with the provided locking mechanism.
5. **Charge Battery:** Before first use, fully charge the internal lithium-ion battery using the supplied USB cable and a compatible USB power adapter (not included). The battery indicator on the display will show charging status.

3. Operating the Garrett Vortex VX7

Understanding the control panel and search modes is crucial for effective metal detection.



Figure 2: Close-up of the Garrett Vortex VX7 control panel, showing the display and button layout.

3.1 Powering On/Off:

- To power on, press and hold the **Power** button (usually marked with a power symbol) until the display illuminates.

- To power off, press and hold the **Power** button again until the display turns off.

3.2 Understanding the Display:

The VX7 display provides critical information for target identification and detector status:

- **Target ID (Numerical):** A two-digit number (0-99) indicating the probable conductivity of the detected target. Higher numbers generally correspond to more conductive metals.
- **MD-MF Indicator:** Confirms the Multi-Dimensional Multi-Frequency technology is active.
- **Depth Indicator:** Estimates the depth of the target.
- **Battery Level:** Displays the remaining battery charge.
- **Sensitivity Level:** Shows the current sensitivity setting.

3.3 Search Modes:

The VX7 offers several search modes, each optimized for specific conditions or target types. Press the **MODE** button to cycle through them.

- **Beach Mode:** Specifically designed for saltwater environments, minimizing false signals from conductive sand.
- **Coins Mode:** Optimized to identify coin-sized targets while discriminating against common trash items.
- **Zero Mode:** Detects all metals without discrimination. Useful for finding relics or when target type is unknown.
- **Custom Mode:** Allows users to save personalized discrimination patterns and settings.
- **Standard Mode:** A general-purpose mode suitable for most inland detecting conditions.

3.4 Sensitivity Adjustment:

Adjust sensitivity using the **+/-** buttons. Higher sensitivity increases detection depth but can also increase susceptibility to electrical interference and ground noise. Reduce sensitivity in noisy environments.

3.5 Ground Balance:

The VX7 automatically performs ground balance in most modes. For highly mineralized ground, manual adjustments may be necessary. Refer to the on-screen prompts or advanced settings menu for specific ground balance procedures.

3.6 Pinpoint Function:

Press and hold the **Pinpoint** button (often marked with a target symbol) to narrow down the exact location of a detected target. Sweep the coil slowly over the target area; the detector will provide a continuous tone and visual indication as you center over the target.

3.7 Z-Lynk Wireless Pairing:

To pair with Garrett Z-Lynk wireless headphones (sold separately):

1. Ensure your Z-Lynk headphones are in pairing mode.
2. On the VX7, navigate to the wireless settings menu (refer to the display for menu access).
3. Select the option to initiate pairing. The detector will search for and connect to the headphones.

4. A confirmation message or icon will appear on the display once paired.

4. Maintenance

Proper care and maintenance will extend the life and performance of your Garrett Vortex VX7.

4.1 Cleaning:

- After each use, wipe down the detector with a damp cloth. Avoid abrasive cleaners or solvents.
- Rinse the searchcoil and lower shaft with fresh water if used in saltwater or muddy conditions. Ensure all connections are dry before storage.
- Do not submerge the control housing unless specifically designed for full submersion (the VX7 is waterproof to 16 ft, but always ensure all seals are intact and connections are secure).

4.2 Battery Care:

- Recharge the internal battery regularly, especially if the detector will be stored for an extended period.
- Store the detector in a cool, dry place. Avoid extreme temperatures.

4.3 Storage:

- Disassemble the detector if necessary for compact storage.
- Store the detector in its original packaging or a protective carrying case to prevent damage.

5. Troubleshooting

This section addresses common issues you might encounter with your VX7 detector.

Problem	Possible Cause	Solution
No power	Battery discharged	Recharge the battery fully.
Erratic signals / False signals	High sensitivity, electrical interference, mineralized ground	Reduce sensitivity. Move away from power lines or other electronics. Perform ground balance.
Poor detection depth	Low sensitivity, incorrect ground balance, heavily mineralized ground	Increase sensitivity. Re-ground balance. Use a different search mode.
No audio	Volume too low, headphones not connected/paired	Increase volume. Ensure headphones are properly connected or Z-Lynk paired.
Detector not waterproof	Loose connections, damaged seals	Ensure all cable connections are hand-tightened. Inspect seals for damage. Do not submerge if seals are compromised.

If you encounter issues not listed here or require further assistance, please contact Garrett customer support.

6. Technical Specifications

Key technical details for the Garrett Vortex VX7 metal detector:

- **Model:** VX7
- **Brand:** Garrett Metal Detectors
- **Technology:** MD-MF (Multi-Dimensional Multi-Frequency)
- **Waterproof Depth:** Up to 16 feet (5 meters)
- **Searchcoil:** 8.5" x 11" DD Searchcoil
- **Item Weight:** 2.9 pounds (1.32 kg)
- **Product Dimensions:** 11.42 x 4.72 x 24.8 inches (29 x 12 x 63 cm)
- **Power Source:** Battery Powered (Internal Lithium-Ion)
- **UPC:** 786156007253
- **Search Modes:** 5 (Beach, Coins, Zero, Custom, Standard)
- **Wireless Audio:** Built-in Z-Lynk

7. Upgradeability to VX9

The Garrett Vortex series is designed with future enhancements in mind. Your VX7 detector can be upgraded to the VX9 model through a software purchase, unlocking additional features and performance capabilities without needing to buy a new physical detector.



Figure 3: Visual representation of the Garrett Vortex VX5, VX7, and VX9 models, illustrating the software upgrade path for enhanced performance.

This upgrade path allows you to expand your detector's functionality as your needs evolve, providing increased depth, more search modes, and advanced iron control settings available in the VX9.

8. Warranty and Support

Garrett Metal Detectors stands behind the quality of its products.

8.1 Product Warranty:

The Garrett Vortex VX7 metal detector typically comes with a**3-year limited warranty** covering parts and labor for manufacturing defects. Please refer to the warranty card included with your product or visit the official Garrett website for complete warranty terms and conditions.



Figure 4: Product packaging indicating 3-year protection and manufacturing origin.

8.2 Customer Support:

For technical assistance, warranty claims, or general inquiries, please contact Garrett Metal Detectors customer support:

- **Website:** Visit the official Garrett Metal Detectors website for FAQs, support resources, and contact information.
- **Phone/Email:** Specific contact details can be found on the Garrett website or in your product documentation.

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For more information, visit Garrett.com