Garrett Metal Detectors 1140860

Garrett ATX Pulse Induction Metal Detector

Model: 1140860

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1. Introduction

The Garrett ATX is a high-performance Pulse Induction (PI) metal detector designed for all-terrain use, including highly mineralized ground and saltwater environments. Its advanced features provide excellent sensitivity to small gold nuggets and deep detection of larger targets. This manual provides essential information for the proper assembly, operation, and maintenance of your ATX detector.

Package Contents:

- Garrett ATX Metal Detector with 12-inch DD coil
- Land headphones
- Soft storage/travel case
- Garrett Detector Sling
- AA alkaline batteries
- Rechargeable batteries
- Battery charger



Figure 1.1: The Garrett ATX Pulse Induction Metal Detector with its 12-inch DD coil, ready for use.

2. Safety Information

Please read and understand all safety warnings before operating the Garrett ATX metal detector.

Battery Safety:

- Keep batteries away from heat, sparks, and open flames.
- Do not expose batteries to excessive heat or store them in high temperatures.
- Always use the provided charger for rechargeable batteries.
- Do not mix old and new batteries, or different types of batteries.
- Dispose of used batteries according to local regulations.

Magnetic Field Warning:

- Do not use the metal detector near strong magnetic fields or sensitive electronic devices that may be affected by the detector's operation.
- Individuals with pacemakers or other medical implants should consult their physician before using a metal detector.

Always follow the manufacturer's instructions for safe usage and storage.

3. Setup and Assembly

Follow these steps to assemble your Garrett ATX metal detector.

3.1 Attaching the Search Coil

1. Align the search coil with the lower stem.
2. Insert the coil bolt through the holes and secure with the wing nut. Do not overtighten.
3. Wrap the coil cable snugly around the lower and middle stems, ensuring it is not loose or dangling.
4. Connect the coil cable connector to the control housing, ensuring a secure, watertight connection.



Figure 3.1: Close-up view of the 12-inch DD search coil, which attaches to the detector's stem.

3.2 Adjusting the Stem Length

1. Loosen the cam locks on the stem sections.
2. Adjust the stem to a comfortable length that allows the search coil to be parallel to the ground when sweeping. The detector has an extended length of up to 68 inches.
3. Tighten the cam locks securely to prevent movement during operation.



Figure 3.2: The Garrett ATX detector fully extended, showing the adjustable stem sections.

3.3 Battery Installation

The ATX operates on AA batteries. Both alkaline and rechargeable batteries are included.

1. Locate the battery compartment on the control housing.
2. Open the compartment and insert the batteries, ensuring correct polarity (+/-).
3. Close the compartment securely to maintain its waterproof seal.
4. To charge rechargeable batteries, remove them and use the provided external charger.

3.4 Connecting Headphones

Connect the land headphones to the designated port on the control housing. Ensure the connection is firm.

4. Operating Instructions

Familiarize yourself with the control panel and its functions for optimal performance.

4.1 Control Panel Overview



Figure 4.1: The Garrett ATX control panel, showing buttons for Sensitivity/Discrimination, Motion/Non-Motion, Iron Check, Threshold/Volume, and Retune/Pinpoint.

- **SENS/DISC:** Adjusts sensitivity and discrimination levels.
- **NON-MOTION/MOTION:** Toggles between search modes.
- **IRON CK (HOLD):** Checks for iron content in a target.
- **THRESH/VOL:** Adjusts audio threshold and volume.
- **RETUNE/PINPOINT:** Resets the detector or provides precise target location.
- **GND BAL (HOLD) / GND TRACK:** Initiates ground balance or enables ground tracking.

4.2 Powering On/Off

Press and hold the power button (usually integrated with the volume knob or a dedicated button) until the unit powers on or off. The LED display will illuminate upon startup.

4.3 Ground Balance

Ground balancing is crucial for stable operation, especially in mineralized soils.

1. Hold the coil about 1 foot above the ground.
2. Press and hold the **GND BAL** button.
3. Pump the coil up and down from 1 inch to 1 foot above the ground.
4. Release the button when the audio signal stabilizes.
5. For continuous adjustment, activate **GND TRACK** mode.

4.4 Search Modes

- **Motion Mode:** Requires the coil to be in motion to detect targets. Offers discrimination capabilities.
- **Non-Motion Mode:** Detects targets when the coil is stationary over them. Useful for pinpointing or searching in confined spaces.

Toggle between modes using the **NON-MOTION/MOTION** button.

4.5 Sensitivity and Discrimination

- Use the **SENS**/**DISC** buttons to adjust the detector's sensitivity. Higher sensitivity increases detection depth but may also increase false signals.
- The ATX offers adjustable discrimination to help ignore unwanted targets. Refer to the LED display for discrimination levels.

4.6 Pinpointing

To pinpoint a target, switch to Non-Motion mode or use the**RETUNE**/**PINPOINT** button. Move the coil slowly over the target area until the strongest signal is heard, indicating the target's center.

5. Maintenance

Proper care will extend the life and performance of your Garrett ATX.

5.1 Cleaning

- After each use, wipe down the detector with a damp cloth to remove dirt, dust, and salt residue.
- Do not use abrasive cleaners or solvents.
- Ensure all connections are clean and free of debris.
- The search coil can be rinsed with fresh water.

5.2 Storage

- Store the detector in a cool, dry place, away from direct sunlight and extreme temperatures.
- If storing for an extended period, remove the batteries to prevent leakage.
- Use the provided soft storage/travel case for protection during transport and storage.

5.3 Battery Care

- Always use the correct type of batteries (AA alkaline or rechargeable).
- Charge rechargeable batteries fully before use and periodically during long storage.
- Avoid overcharging or completely draining rechargeable batteries.

6. Troubleshooting

Refer to this section for common issues and their solutions.

6.1 No Power

- Check if batteries are correctly installed with proper polarity.
- Ensure batteries are fully charged or replace with fresh alkaline batteries.
- Verify the battery compartment is securely closed.

6.2 Erratic Signals or False Alarms

- Perform a ground balance procedure.
- Reduce sensitivity settings.
- Check for electromagnetic interference from power lines, cell phones, or other electronic devices.
- Ensure the coil cable is tightly wrapped around the stem and securely connected.

6.3 Poor Detection Depth

- Increase sensitivity settings, if ground conditions allow.
- Ensure the coil is parallel to the ground during sweeps.
- Re-ground balance the detector.
- Check battery levels; low batteries can affect performance.

6.4 Headphone Audio Issues

- Ensure headphones are securely plugged into the correct port.
- Check headphone cable for damage.
- Adjust the volume setting on the detector.

7. Specifications

Key technical specifications for the Garrett ATX Pulse Induction Metal Detector.

Feature	Detail
Model Number	1140860
Brand	Garrett Metal Detectors
Detection Technology	Pulse Induction (PI)
Power Source	Battery Powered (AA alkaline or rechargeable)
Extended Length	68 Inches (Adjustable)
Item Weight	8.82 Pounds
Material	Metal
Display Type	LED
International Protection Rating	IP54
UPC	786156004351

8. Warranty & Support

Garrett Metal Detectors provides a limited warranty for the ATX detector against defects in materials and workmanship under normal use. For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official Garrett Metal Detectors website.

Customer Support:

If you have any questions, require technical assistance, or need to report an issue, please contact Garrett Metal Detectors customer support. Contact information can typically be found on the official brand website or in the product packaging. For more information, visit the **Garrett Metal Detectors Store**.

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