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> Fisher Gold Bug Tracker Metal Detector User Manual

Fisher Labs Gold Bug Tracker

Fisher Gold Bug Tracker Metal Detector User Manual

Comprehensive instructions for assembly, operation, and maintenance of your Fisher Gold Bug Tracker metal detector.

INTRODUCTION

The Fisher Gold Bug Tracker is a high-performance metal detector designed for prospecting and treasure hunting. It features an advanced Iron Bias Adjustment for superior accuracy in various soil conditions, making it suitable for detecting gold nuggets, relics, and coins. This manual provides essential information to help you assemble, operate, and maintain your detector for optimal performance.

1. SETUP AND ASSEMBLY

1.1 Unpacking

Carefully remove all components from the packaging. Verify that all parts are present:

- Control Housing with Armrest
- Upper Stem
- Lower Stem
- 5-inch Search Coil
- Mounting Bolt and Washers

1.2 Assembly Instructions

1. **Attach the Search Coil:** Connect the 5-inch search coil to the lower stem using the provided mounting bolt and washers. Ensure it is securely fastened but allows for slight angle adjustment.
2. **Connect Stems:** Insert the lower stem into the upper stem. Adjust the length to a comfortable operating position.
3. **Attach Control Housing:** Slide the control housing onto the upper stem. Secure it in place, ensuring the armrest is positioned for comfortable use.

- Wrap 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 housing. Ensure the connector is finger-tight.



Figure 1: Fully assembled Fisher Gold Bug Tracker metal detector, showing the control unit, stem, armrest, and 5-inch search coil.



Figure 2: Side view of the Fisher Gold Bug Tracker, illustrating the ergonomic design of the armrest and handle.

1.3 Battery Installation

The Gold Bug Tracker requires batteries for operation. Locate the battery compartment on the control housing. Insert the specified batteries, observing the correct polarity (+/-). Close the compartment securely.

2. OPERATING INSTRUCTIONS

2.1 Powering On/Off

To power on the detector, rotate the GAIN knob clockwise until it clicks. The LCD display will illuminate. To power off, rotate the GAIN knob counter-clockwise until it clicks.



Figure 3: Detailed view of the control panel, showing the GAIN and IRON BIAS knobs, power button, and LCD screen with target ID.

2.2 Controls and Modes

- **GAIN Knob:** Controls the detector's sensitivity. Higher gain increases detection depth but can also increase sensitivity to ground mineralization and electrical interference. Adjust for stable operation.
- **IRON BIAS Knob:** This advanced control allows fine-tuning of iron discrimination. Rotate to adjust the detector's response to ferrous targets. Higher settings will reject more iron, which is useful in trashy areas.
- **All Metal Mode:** Provides maximum detection depth and sensitivity to all metal types, including gold. This mode is ideal for prospecting in areas with low iron contamination.
- **Discrimination Mode:** Allows the detector to ignore certain types of metal, typically iron, while still detecting valuable targets. Use the IRON BIAS knob to adjust the level of discrimination.

2.3 Target Identification and Depth Indication

The LCD display provides real-time information about detected targets:

- **Target ID:** A numerical value (0-99) indicating the probable identity of the detected metal. Higher numbers generally correspond to more conductive metals like silver or copper, while lower numbers can indicate iron or small gold.
- **Depth Indicator:** Estimates the depth of the target. This is an approximation and can vary based on target size, shape, and ground conditions.

2.4 Ground Balancing

Ground balancing is crucial for optimal performance, especially in mineralized ground. Refer to the on-screen prompts or the full manufacturer's manual for detailed ground balancing procedures. Proper ground balancing eliminates false signals caused by ground minerals, allowing for deeper and more accurate detection of targets.

2.5 Searching Techniques

- **Sweep Pattern:** Maintain a consistent, slow sweep speed with the search coil parallel to the ground, approximately 1-2 inches above the surface. Overlap each sweep by about half the coil's diameter.
- **Pinpointing:** Once a target is detected, narrow down its location by sweeping the coil in a cross-pattern or by reducing the sweep area until the strongest signal is found directly under the coil's center.
- **Digging:** Always dig carefully to avoid damaging the target. Use appropriate digging tools.

3. MAINTENANCE

3.1 Cleaning

- **Search Coil:** The search coil is waterproof and can be rinsed with fresh water. Avoid using abrasive cleaners.
- **Control Housing:** Wipe the control housing with a damp cloth. Do not submerge the control housing in water.
- **Stem and Armrest:** Clean with a damp cloth as needed.

3.2 Battery Care

- Always remove batteries if the detector will not be used for an extended period to prevent leakage.
- Use high-quality alkaline or rechargeable batteries.
- Dispose of used batteries responsibly according to local regulations.

3.3 Storage

Store the detector in a cool, dry place, away from direct sunlight and extreme temperatures. Disassemble if necessary for compact storage.

4. TROUBLESHOOTING

Problem	Possible Cause	Solution
No power	Dead or incorrectly installed batteries	Check battery polarity; replace with fresh batteries.
Erratic signals / False signals	<ul style="list-style-type: none">• High gain setting• Poor ground balance• Electrical interference• Loose coil cable	<ul style="list-style-type: none">• Reduce GAIN setting.• Perform ground balance procedure.• Move away from power lines, cell phones, or other electronics.• Tighten coil cable connector.

Problem	Possible Cause	Solution
Poor depth detection	<ul style="list-style-type: none">• Low gain setting• Incorrect ground balance• Heavily mineralized ground	<ul style="list-style-type: none">• Increase GAIN setting.• Re-ground balance the detector.• Adjust IRON BIAS for mineralized conditions.

5. SPECIFICATIONS

- **Model:** Fisher Gold Bug Tracker
- **Brand:** Fisher Labs
- **Search Coil:** 5-inch (approx. 12.7 cm) Concentric Search Coil
- **Operating Principle:** VLF (Very Low Frequency)
- **Power Source:** Battery Powered (Type not specified, typically 9V or AA)
- **Weight:** Approximately 3.39 pounds (1.54 kg)
- **Package Dimensions:** 22.3 x 8.5 x 5.5 inches
- **UPC:** 089723777086
- **Features:** Iron Bias Adjustment, All Metal Mode, Discrimination Mode, Target ID, Depth Indicator

6. WARRANTY AND SUPPORT

6.1 Warranty Information

For detailed warranty information regarding your Fisher Gold Bug Tracker metal detector, please refer to the official documentation included with your product or visit the Fisher Labs official website. Warranty terms and conditions may vary.

6.2 Customer Support

Should you require technical assistance, have questions about operation, or need to report an issue, please contact Fisher Labs customer support. You can typically find contact information on the manufacturer's website or in the product packaging.

Fisher Labs Official Website: [Visit Fisher Labs Store](#)