Ground Hawk Instruction Manual (pdf)

This instruction manual contains goes into detail on the following topics:

- Introduction
- Ground Hawk Anatomy
- Functions
- Signal Detection
- Ground balance overview
- How to ground balance and "bobb"
- Contact Ground Hawk
- About Ground Hawk

http://www.groundhawk.com

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Ground Hawk was established in 1982. We have been handcrafted each detector one by one to its maximum performance. At Ground Hawk we are to please, and you are also when it comes to performance. Ground Hawk is different from the rest, why? The reason is that most detectors on the market are designed for coin hunting, yet they are used for relic hunting. Most people don't know that all detectors are not suited for relic hunting. Coin detectors sample from their maximum discrimination even in low range and rejects to soil mineral content harshly, and thus rejecting deeper brass buttons, firing caps. Ground Hawk's enhanced circuitry will enable you to find deeper buttons, firing caps and relics. The Ground Hawk has the ability to smoothly detect deep targets. Most machines on the market have a micro processed sound system, so that the audio is pulsed. Ground Hawk has smooth audio, with a separate threshold control. This feature will allow you to scan wider and to analyze targets better. This also allows you to speed hunt in the search of a new relic site. The Ground Hawk has an easy to read tuning meter. Tuning to the ground mineral content will allow all the good deep targets to be heard. And the sensitivity control will enable you to adjust for various interference such as an AC power line or static.

After going over the operation procedures, you'll need a lot of practice to become proficient at treasure hunting. It takes a lot of swinging and digging. As a reminder, respect the land owners and their land. Fill your holes, and please leave a good impression on them. Thank you. Now proceed to the Ground Hawk Anatomy overview.



Ground Hawk Anatomy



Submersible search head

Sensitivity control Tuning meter Discrimination control on/off and volume control Ground balance control Audio threshold Firm rubber handle





Signal Detection

Signal detection requires search head movement. The example below, shows the audio response while scanning, or moving the target across the search head. Select a place away from metal. Turn on the detector, volume on 6 and set controls as in the figure on the proceeding page.



Same pass. but pulling the trigger. Now it just clicks indicating an iron target, but would sound like the blue or green signal if were a Non-Ferrous target such as brass, lead, etc.

To simplify matters, if you hear the same signal while pulling the trigger, the target is lead, copper, brass, gold and/or silver. If you hear no sound when you pull the trigger, then the target is nails or iron in nature.

Ground balance overview



The 15 turn control and the meter is used to tune the detector to the ground mineral. Ground mineral is iron deposits that resides in the soil. Soil changes, also the mineral content changes per location. The object is to handle or see through the mineral with in limits. The "bobb method" (discussed later) is used when calibrating. Tuning to the green area gets you with in limits. Bobbing along with adjusting the 15 turn tuning control to fine adjust the audio response while bobbing to a minimum response.

How to ground balance and "bobb"

Tuning Out the Ground Mineral (ground balancing)

Step#1 Go out in your yard and turn the detector on. Set threshold and volume. Adjust the needle to the GREEN area.

Step#2 Scan the search head around a area at a distance of 4 inches above the ground. If audio changes are present, move to an area with no changes.

Step#3 There, you now will move the search head up and down. See figure below. It's called "bobbing".

Set your controls as pictured below.

Start with the needle in Green area using the ground adj.



But, if notice audio changes as you bobb the search head, go to step 4.

Step#4 Notice changes? Then you will need to adjust the GROUND ADJ. control clockwise or counter-clockwise. At each increment bobb and check the response. Adjust and recheck each time so that the change is at its minimum. And your ready to hunt. Scan wide and above the ground about 1 1/2 inches.

Contact Us

If you have any questions, comments or suggestions, please contact us.

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About Ground Hawk

My friends and I have been hunting civil ware relics for several years. It is the most exciting and yet addictive hobby there is. We have tried almost every detector on the market with limited success. Relic hunting is a challenging hobby if you do not have an efficient detector. Although we enjoyed relic hunting, it was most frustrating at times because of various design faults. I grew quiet frustrated with the various un-thought out designs. I love this hobby so much I thought there's got to be a better way.

As I realized what little forethought and quality was put into these different detectors, it made me angry not only because I spent a lot of money for these machines but also because many other people do the same and will never grasp the full excitement they deserve. Then it hit me! Why don't I design my own metal detector? In 1980, I began designing a high quality; professional and efficient metal detecting design. I wanted a metal detector that was designed for deep relic recovery, how about you?

After 1 1/2 years of trial and error, Ground Hawk was born. Ground Hawk has always manufactured metal detectors by hand to ensure that they are designed to operate at their maximum performance. Today, our desire of product quality and customer satisfaction has not changed. Ground Hawk became more than just a brand name; it became a symbol of customer satisfaction.