

# OPERATING INSTRUCTIONS: MASTER HUNTER ADS 4

## CONTROL FUNCTIONS

**Power/Detection Depth Control:** Rotate knob clockwise to turn detector on. Further rotation increases detection depth.

**Trash Elimination Control:** This full range adjustment control allows you to determine the junk items you wish to eliminate from detection.

**Ground Elimination Control:** Permits adjustment to eliminate the effects of earth iron minerals.

**Audio Control:** Select the desired threshold sound level with this control.

**Tone Control:** This control permits you to select the most pleasing audio tone.

**Master Control Switch:** (End of handle.) This switch selects operating modes and retunes the detector. (1) Press left and release to select **Manually Adjustable Ground Elimination All-Metal Mode**. (2) Press right and release to select the **Automated Ground/Trash Elimination Mode**. (3) Each time the switch is pressed left or right, the detector retunes to the pre-selected audio threshold level.

## **BATTERY TEST**

When the power is turned on, the two battery circuits are checked automatically. Each circuit is checked for one second. Battery condition shows on the meter. Batteries not checking in the "battery" area should be replaced. To replace the batteries, remove battery tray from detector. Notice the circuit designations on the side of the battery tray.

## OPERATING INSTRUCTIONS:

Set controls to INITIAL SETTINGS ( $\Delta$ ) positions. Press and hold the Master Control Switch to the left, adjust the audio control to achieve the faintest sound you can hear, then release. This sound is called the threshold level. Scan the searchcoil about one to two feet per second. Maintain a one- or two-inch searchcoil height above the ground. All metal targets will produce an audio sound. To eliminate "junk" targets, press the Master Control Switch to the right and release to activate the detector's adjustable trash elimination circuitry. Dig all targets that produce an increase in the signal volume.

## **TARGET ACCEPTANCE & REJECTION**

When a metallic object is accepted, the detector's speaker or earphone sound will increase from your pre-selected audio threshold level. When a metal object is eliminated (rejected), the sound will decrease or become silent. As you scan, if you notice erratic audio and meter

responses and if you wish to learn more about your Master Hunter ADS 4, study the following Controls Adjustments section.

## **CONTROLS ADJUSTMENTS**

This detector has INITIAL SETTINGS points ( $\Delta$ ) located on the control panel. By first rotating the controls to these INITIAL SETTINGS points, you adjust the detector for operation over average ground. Then, adjust AUDIO to your desired minimum threshold sound level. Depending upon the amount of iron minerals in the ground and the degree of trash elimination you desire, the settings of the controls may differ from the INITIAL SETTINGS ( $\Delta$ ). For optimum performance, as you become more familiar with your Master Hunter ADS 4, slight (+) or (-) adjustment to the Detection Depth and Trash and Ground Elimination controls may be necessary.

Since the INITIAL SETTING ( $\Delta$ ) of the Ground Elimination Control is for average iron minerals, minor adjustment may be necessary if the audio and meter operate erratically as you scan the searchcoil. Follow these procedures to fine tune this control.

1. Hold searchcoil approximately three feet above the earth.
2. Press Master Control Switch to the left and release.
3. Lower searchcoil to two inches above ground level.
4. Notice audio response. If sound DECREASES, set control higher and repeat Steps 1 through 4. If sound INCREASES, the control is set too high. Lower the control setting and repeat Steps 1 through 4.
5. When point of minimum or no sound change is achieved, ground elimination is correctly adjusted. All metal will be detected.

## **TRASH ELIMINATION**

When metal targets are accepted, the AUDIO and METER POINTER will INCREASE from the THRESHOLD level. When targets are eliminated, the AUDIO and METER POINTER will DECREASE. (AUDIO may become SILENT.) The following discussions explain the various TRASH ELIMINATION SETTINGS. It is not necessary to adjust the Ground Elimination Control to achieve accurate trash elimination all ground minerals when operating in the Trash Elimination Mode.

- (4+) Nails and rusty iron will be eliminated from detection.
- (4 ½+) Nails, rusty iron, and foil will be eliminated from detection.
- (5 ½+) Nails, rusty iron, foil, and pulltabs will be eliminated from detection. Nickles, rings and many foreign coins and tokens may also be eliminated at this setting. Test typical trash items before operating.

## **MAINTENANCE**

- ❖ Always remember that your Master Hunter is a sensitive electronic instrument. It is built to withstand rugged treatment in the outdoors. Use your Garrett detector to the fullest extent possible, and never feel that you have to *baby* it. Yet, always protect the detector and handle it with reasonable care.

- ❖ Try to avoid temperature extremes as much as possible, such as storing the detector in an automobile trunk during hot summer months or outdoors in sub-freezing weather.
- ❖ Keep your detector clean. Always wipe the housing after use, and wash the coil when necessary. Protect your instrument from dust and sand as much as possible.
- ❖ Your searchcoil is submersible. The control housing is not! *Never* submerge the control housing and *always protect it* from heavy mist, rain or blowing surf.
- ❖ Disassemble the stem and wipe it clean after use in sandy areas.
- ❖ When storing longer than about one month, remove batteries from the detector.

## **REPAIR SERVICE**

- ❖ In case of difficulty, read this Owner's Manual again thoroughly to make certain your detector is not inoperable needlessly. Your dealer may also be able to offer advice.
- ❖ When your Master Hunter must be returned to the factory for service, always include a letter that describes its problem as fully as possible. Before you return your detector to the Garrett factory, make certain:
  - ❖ You have checked batteries, switches and connectors. (Check *batteries* especially closely. They are the most common cause of detector "failure".)
  - ❖ You have checked with your dealer, particularly if you are not familiar with the Master Hunter or ADS type detector.
  - ❖ You have included a note with the detector describing the problems you are encountering with this detector and conditions under which they occur. Make certain to include your name, address and a phone number where you can be contacted between 8:30 a.m. and 4 p.m., Central Time.
  - ❖ You have carefully packed the Master Hunter in its original shipping carton or other suitable box. Make certain that proper insulation or packing material is used to keep all parts secure. Do *not* ship stems or headphones unless they are part of the problem. Be certain to return all coils, unless the problem is mechanical.
- ❖ Ship to Garrett Metal Detectors, 1881 W. State St., Garland, TX 75042.
- ❖ You can call Garrett's Customer Service Department (972-494-6151) if you have further questions.
- ❖ Please allow approximately one week for Garrett technicians to examine and repair your detector after they receive it, plus another week for return shipping to you. All equipment will be returned UPS or parcel post unless written authorization is given by you to ship collect by air parcel post, UPS Blue (air) or air freight.

## **MIND YOUR MANNERS**

Filling holes and obeying *no trespassing* signs are but two requirements of a dedicated metal detector hobbyist. A sincere request that Charles Garrett makes to every user of one of his detectors is that each place searched be left in a better condition than it was found. Thousands of individuals and organizations have adopted this formal Metal Detector Operators Code of Ethics:

- ❖ I will respect private and public property, all historical and archaeological sites and will do no metal detecting on these lands without proper permission.
- ❖ I will keep informed on and obey all laws, regulations and rules governing federal, state and local public lands.
- ❖ I will aid law enforcement officials whenever possible.
- ❖ I will cause no willful damage to property of any kind, including fence, signs and buildings and will always fill holes I dig.
- ❖ I will not destroy property, buildings or the remains of ghost towns and other deserted structures.
- ❖ I will not leave litter or uncovered items lying around. I will carry all trash and dug targets with me when I leave each search area.
- ❖ I will observe the Golden Rule, using good outdoor manners and conducting myself at all times in a manner which will add to the stature and public image of all people engaged in the field of metal detection.

## **WARNING!**

Any metal detector may discover underground power lines, explosives or other items which when struck could cause personal injury. When searching for treasure with your Master Hunter, observing these precautions:

- ❖ Do not hunt in an area where you believe there may be shallowly buried underground electric lines or pipes.
- ❖ Do not hunt in a military zone where bombs or other explosives may be buried.
- ❖ Avoid striking any line known to be or suspected to be carrying electrical power.
- ❖ Do not disturb any pipeline, particularly if it could be carrying flammable gas or liquid.
- ❖ Use reasonable caution in digging toward *any* target, particularly in areas where you are uncertain of underground conditions.

**PATENT PROTECTION:** Proof of Garrett's excellence is the recognition given them by the following United States patents: 4,709,213; 4,488,115; 4,700,139; 4,398,104; 4,423,377; 4,303,879; 4,334,191; 3,662,255; 4,162,969; 4,334,192; 5,148,151; 5,138,262; 5,721,489; 5,786,696; 5,969,528; Design 274,704 and 297,221; Design 333,990; G.B. Design 2,011,852; Australia Design 111,674 and other patents pending