

OPERATING INSTRUCTIONS:

GTI 2500

ASSEMBLY INSTRUCTIONS:

1. Compress the button ends of the spring clip and insert, button end first, into the lower stem of the detector so that the button ends pop out of the holes. The spring clip is installed at the factory in the upper metal stem. This will enable the stem assembly to be attached to the electronic housing and the over all length of the detector adjusted for a comfortable operating length.
2. Attach the lower stem to the searchcoil by inserting the two rubber washers into the stem and slipping the searchcoil onto the stem. Insert the threaded bolt through the holes and hand-tighten the two knobs.
3. Install the upper stem to the lower and then this assembly to the detector housing by depressing the buttons and coupling the stem to the housing. Adjust for the most comfortable operating length.
4. Wrap the searchcoil cable snugly about the stem with the first turn of the cable over the stem.
5. Insert the cable connector into the connector on the detector housing and hand-tighten securely.

CONTROL FUNCTIONS

Touchpads:

Familiarize yourself with the touchpad controls. Their basic functions are given here. How they can help you find treasure is explained in the Operating Instructions of this Manual.

Power/ Hold to reset:

- Turns the detector on;
- Turns the detector off;
- Returns the detector to factory settings.

Raise searchcoil approximately one foot above the ground. Press the touchpad once, and the detector begins operating. Each time the detector is turned on, the battery condition is reported on the detector's LCD Display and the detector automatically begins operating in the Discriminate Coins mode.

Press once again to turn the detector off. Special memory circuitry will retain all settings made. Also, the detector will switch itself off automatically when no touchpad is pushed and no target is detected during a period of 10 minutes

Menu/Scroll:

Allows the operator to scroll through the following menu items to permit making manual adjustments for personal preferences:

In both Discriminate and All-Metal mode:

- **Sensitivity (Depth)**
- **Threshold (Audio Level)**
- **Frequency**
- **Volume**
- **Tone**
- **Search Image**
- **Talk (Voice)**
- **Battery Indicator**
- **Back Light**

In Discriminate mode only:

- **5 Modes**—*Coins, Jewelry, Relics, Zero, Custom*
- **Surface Elimination**
- **Salt Elimination**
- **Belltone Audio**
- **Bi-Level Audio**

In All-Metal mode only:

- **Manual Ground Balance**
- **Auto Track**

All- Metal (FAST TRACK):

This touchpad serves a dual function. When pressed and released, it places the detector in the All Metal Mode. When pressed and held firmly, the second function, the *Fast Track* Ground Balancing function is activated when the All-Metal mode is in use.

Accept/Reject:

This functions in the Motion Discriminate modes only. Permits acceptance or rejection of specific targets to establish discrimination notches as shown on the lower scale.

Treasure Imaging (PINPOINT – DEPTH):

Press and hold to activate the pinpointing function of the detector when a target has been discovered. This function operates in either mode and causes the depth of coin-sized targets to be displayed on the lower scale. Signal strength is indicated on the upper scale and size and depth of the target is shown on the Imaging Grid. A complete discussion of pinpointing can be found in the Operating Instructions section of these instructions.

OPERATE:

Press to return to the hunting mode after any change or adjustment of controls.

Discriminate (Last Mode):

Returns the detector to the last *previously* used operating mode when operating in the Discriminate mode.

When hunting in the All-Metal mode, activates the Discriminate mode that was last being used.

Treasure Talk:

Permits *Treasure Talk* on demand when a target is detected. Pressing this pad will cause the voice to give the Upper Scale ID number, size and depth of the target last detected.

+ and -

- Permits alternation between the 5 operating modes;
- Permits adjustment of levels of *Sensitivity (Depth)*, *Threshold*, *Frequency*, *Volume*, *Tone*, and *Talk* in the Discriminate and All-Metal modes. *Surface Elimination* in the Discriminate mode; and *Auto Track* in the All-Metal mode.
- Activates (+) or turns off (-) *Rechargeable* battery gauge, *Search Image* and *Backlight* functions in both modes. *Salt Elimination*, *Belltone*, *Bi-Level* target audio in the Discriminate mode.
- Moves LCD segments in the upper scale when discrimination is being set in the Discriminate mode;
- Permits adjustment to be made that achieve precise manual ground balancing in the All-Metal mode.

Display Screen:

The complete operating status of the detector is shown on the screen at all times. When **Treasure Imaging** is pressed and held the size and depth of targets will be shown. The mode in which you are searching will be shown in the column under **Search Mode**. **Menu**, **Search**, and **Image** are shown above the grid in the center to indicate the detector status. **Menu** is shown while the detector is being regulated. **Search** will be illuminated after pressing **Operate** and are hunting, and **Image** when the **Treasure Imaging** touchpad is pressed and held. On the second line are detector functions that may be selected and regulated by use of the **Menu/Scroll** Touchpad. Under the Search Aids column are listed the various search aids selected for use.

Treasure Vision:

This function enables the Display Screen to show the status of detected targets.

Control Information

Graphic Display:

1. Target ID Guide

At the top of the control panel coin denominations are listed for use with the Target Cursor to indicate probable target identification. This is to be used in relationship with the Imaging Grid to further assist in identifying discovered targets. The five letters (A, B, C, D, E) refer to the relative sizes on the Imaging Grid.

2. Upper Scale

- Indicates target discovered
- Indicates target strength when Treasure Imaging is pressed.
- Indicates levels of control setting while in the Menu mode.

3. Lower Scale

- Discrimination segments indicate notches
- Indicates coin depth in inches when in Treasure Imaging.
- Indicates five levels of control settings.

Imaging Grid:

Five target sizes are shown on the color-coded Grid with depth indicated in 2-inch increments by the targets location on the grid. The sizes and definitions are:

Size A—Targets smaller than coins, including small bits of trash or foil.

Size B—All US coins and most rings and small metal trash such as bits of pulltabs.

Size C—Targets larger than coins but smaller than 12 oz. cans such as small belt buckles large rings, and some trash like screwcaps, bottlecaps, and complete pulltabs.

Size D-- Large belt buckles, large jewelry items, 12 oz. cans, and other items of similar size.

Size E—Objects larger than a 12 oz. can, such as kettles, strongboxes, or large metallic trash.

Treasure Talk:

This function provides spoken information to assist in setting the detector and finding targets. Three levels of *Talk* enable you to specify the activity of this function.

- **Menu:** Allows voice prompting only when the detector is being adjusted.
- **Image:** Allows voice prompting both when selections are being made and when target size and depth information is available as the Treasure Imaging touchpad is released.
- **Search:** Provides voice prompting at all times, including Upper Scale ID numbers and size.

Getting Started:

To Begin

- Grasp the handle of your detector and lower the searchcoil to a level about a foot above the ground.
- Press and release the Power Touchpad and Treasure Talk will inform you that the detector is ready to operate and is in the Coins mode.
- The LCD Display shows the mode and the features that are presently active.
- Using the information stated previously in the Control Functions section, changes may be made to the settings if desired.

SCANNING:

1. Move the searchcoil from side to side in front of you in a straight line at a speed of one or two feet per second. Walk slowly forward. Don't be in a hurry!
2. Hold the searchcoil level, and try to maintain a constant height an inch or two off the ground. Skim it lightly over grass, weeds, rocks and other obstructions.
3. Avoid letting the searchcoil swing upward at the end of each sweep.

DISCOVERY:

1. When the searchcoil passes over an acceptable target, the speaker will produce a pronounced audio signal and voice report, if voice is activated.

2. Try to locate the target precisely by scanning back and forth over the target to determine where signals are loudest.
3. Notice all indications on the LCD Display above the touchpad and try to identify the target before digging it up.

Treasure Imaging: (Pinpoint)

Press and hold this touchpad so that you may locate your target more precisely and also determine its relative size and depth.

JUNK TARGETS: When the detector is at the factory-set Motion Discriminate (Coins) it is programmed not to respond to most junk items. Occasionally, you'll encounter targets that cause the detector to respond with quick, sharp sound – not like the clear, strong signal of a coin. Dig up some of the targets that make irregular “blips;” see how they register on the display. Learn to recognize them. Because the detector is primarily programmed to hunt coins in this Getting Started phase, it will also precisely identify small junk targets. Some larger objects such as aluminum cans may present a good audio signal. This is normal.

TO TURN OFF your detector, simply press the Power touchpad, the voice will say, "Power Off" and all battery power is disconnected.

After you have become acquainted with your detector, re-read and study these instructions. When you become completely familiar with the GTI 2500, you will find it can be used effectively to hunt for any kind of treasure.

AFTER TEN HOURS: At this point, you have probably noticed some conflicting readings in areas with a great deal of metal trash, especially when the display attempted to analyze two or more targets. Further operating experience with target identification systems will help you understand more about these so-called false readings.

SPECIAL NOTE ABOUT SETTINGS:

If you are ever unsure about the settings of your detector, press and hold the Power touchpad for 5 seconds or until the voice prompt informs you that the factory settings have been restored.

HEADPHONE JACK:

The headphone jack is located at the center rear of the battery pack located under the arm cuff.

MODE SELECTION AND ADJUSTMENTS:

Discrimination Operating Mode:

In the motion (Discriminate) mode the GTI 2500 functions as a slow-motion detector with precise ground balance. Automatic circuitry requires that the searchcoil be moving to cause an audio target response. In this Motion Mode press **Menu/Scroll** and then + or - to rotate through five different modes of detection. When a particular mode is selected it will be lit constantly and the others four will be flashing. Press **Operate** to begin hunting or **Menu/Scroll** to move to another control selection.

Coins: Discrimination is preset to eliminate detection of lower conductivity trash items such as pulltabs and bottlecaps.

Jewelry: Specifically designed to eliminate trash targets and bottlecaps.

Relics: Specifically designed to eliminate only those very small lower conductivity items that plague relic hunters.

Zero: No discrimination is programmed into this mode, so essentially every metal target will give an audio response.

Custom: This mode is designed to be user-set. Through the use of the **Accept/Reject** touchpad it can be modified for an individual's preference. The settings made to this mode will be retained when the detector is turned off.

Note: When the detector is turned off and then back on, it will begin operating in the mode previously in use.

SETTING DISCRIMINATION:

Setting of Notches

Changes to the preset notches can be made in several ways if so desired. A specific item may be located by turning off all segments on the Lower Scale except for the segment where that target will appear. This can be accomplished by pressing the + or - touchpad to locate the cursor and moving it to the segment that you wish to turn on or turn off. When the cursor is over that segment, press ACCEPT/REJECT to turn the segment on or off.

Another method is to search normally and when a particular item is encountered, press the ACCEPT/REJECT touchpad to turn that segment off. That target will not bother you any longer. NOTE: You may wish to turn off one segment on each side of the one chosen for rejection. This will mean that three segments are off, but it will also insure that the chosen target cannot be recognized any longer.

All of the Discrimination Modes may be adjusted in this manner.

All changes made to the user-set Custom mode will retain changes made to them when the detector is turned off. All changes to the other modes will be lost as they automatically return to the factory settings.

Factory Settings: Remember that the factory settings may be gained at any time simply by pressing and holding the POWER touchpad for approximately 5 seconds. The detector will beep and the voice will announce that all factory set functions have been restored. All changes made by the operator will have been deleted

All-Metal Operating Mode:

In this mode there is no discrimination. When turning the detector on, or switching to this mode the *Fast Track* feature will automatically ground balance the detector and *Ground Track* will keep it continually ground balanced.

Hunt in this mode when you desire the greatest depth and recognize that all metal targets will be reported audibly.

OPERATIONAL SETTINGS

Press **Operate** to set your changes after they have been made. Treasure Talk will report all setting levels as each function is selected and/or changed.

Discrimination Mode: All changes will be reported audibly by the detector's voice function and all adjustments are made using the Menu/Scroll touchpad. These changes are visibly shown on the Upper and/or Lower Scales also.

Sensitivity (Depth): Use the + or - touchpads to adjust the depth (Sensitivity) from your current setting. The changes will be shown on the Upper Scale of the LCD Display.

Threshold: Increase or decrease this setting by use of the + or - touchpads. A minimum audio sound is generally preferred.

Frequency: This detector has eight (8) detecting frequencies. When electronic interference from ambient conditions or those from nearby detectors cause static or erratic operation use of another frequency generally will solve the problem. Use the + or - touchpads to change frequencies after selecting this function for adjustment.

Volume: Using the + or- touchpads adjustments may be made to the maximum volume produced when a target is encountered. This does not affect the audio threshold setting previously discussed.

Tone: Allows adjustment of the audio pitch. Adjust for the tone that suits your hearing. Again, increase or decrease the tone level by use of the + or - touchpad.

Search Aids:

Search Image: When this Search Aid is selected *Treasure Vision* will constantly display the size and depth of accepted targets while you are searching.

Surface Elimination: After selecting this Search Aid use the + or - touchpad to increase or decrease the elimination range from the searchcoil. A maximum of 4 inches of surface elimination is available. All targets in this range will be ignored, so use this function wisely.

Salt Elimination: Use this Search Aid when hunting in any area with a high salt content such as an ocean beach or in tidal waters. Turn this function on or off by using the + or - touchpad.

Backlight: This function lights the detectors control panel at night or in low light situations. It is on automatically when in the Menu mode. Turn this function on or off by using the + or - touchpad.

Audio:

Belltone: The Belltone coin alert will signal the operator with a special ringing sound whenever a target of high conductivity has been located. Belltone is the factory setting for the GTI 2500. This ringing sound is active only for targets equal in conductivity to copper cents and above. This function is turned on or off by using the + or - touchpad.

Bi-Level: Two noticeably different audio sounds are produced when this function is turned on. A standard audio response is given for all targets of a high conductivity than that of a US nickel. Nickels and lesser conductive targets cause a lower audio tone. This function is turned on or off by use of the + or - touchpads.

If neither Belltone nor Bi-Level audio is selected, the detector will operate with only Standard audio.

Talk: Use of this function allows the operator to select the level of Talk desired using the + or - touchpads.

Overload: This is a distinct audio sound emitted when the detector encounters an exceptionally large target fairly near the searchcoil.

Battery Type: By use of the + or - touchpad the type of battery being used is selected. The scale is automatically adjusted for correct reporting of the battery power available.

Audio Warning: This audio sound will occur only if while making changes or adjustment a "wrong" touchpad is pressed.

Additional Information: All personal preference adjustments selected will be retained when the detector is turned off, even when the batteries are removed. However, all Accept/Reject changes made to the Motion Discriminate factory-set modes will be deleted and those modes will return to the factory-set default settings.

The detector must be turned off when the batteries are being replaced.

ALL- METAL MODE

OPERATIONAL SETTINGS:

All-Metal Mode: All changes will be reported audibly by the detector's voice function and all adjustments are made using the + or - touchpads. These changes are also shown on the Upper and/or Lower Scales of the LCD Display.

The following list of control functions is used in both operating modes. Instructions for their use can be found above.

Manual Ground Balance

Depth (Sensitivity)

Threshold

Frequency

Volume

Tone

Search Image

Back Light

Talk

Manual Ground Balance: This function will be used rarely due to the detector's internal circuitry and the *Ground Track* automatic ground balancing method is usually quite satisfactory. However, when Manual Ground balance is desired, press the **Menu** touchpad and scroll to the *Manual Ground Bal* is displayed. Raise the searchcoil a foot or more into the air

and then lower it toward the surface to operating height. Listen closely to the audio sound. If the sound increases press the (–) touch pad one or twice. Raise the coil and then lower it again. Do this until the audio sound remains the same or changes only very little. If the sound decreases the same procedure is done using the (+) touchpad. When the audio sound has little or no increase or decrease press operate to begin hunting or select to move to another function.

The Ground Balance you have set for your detector will not change as long as AutoTrack remains turned off. When Auto Track is operating it will govern the ground balancing function of the GTI 2500.

Auto Track: This Search Aid permits the detector to maintain optimum ground balance automatically, regardless of changing mineralization or other conditions.

Don't Forget: The factory-set levels of all settings and controls can be instantly restored by pressing and holding the POWER touchpad. The detector will beep and the voice will advise that the detector has been re-set to factory settings.

TREASURE IMAGING

When hunting with the Search Image Aid turned off, size and depth information is available only when the **Treasure Imaging** touchpad is pressed and held. The relative size and depth of targets will then be displayed on the Imaging Grid.

Important: the searchcoil must be centered directly over the target to produce accurate size and depth information.

Depth Reading on the Lower Scale

When you press and hold the **Treasure Imaging** touchpad, target depth will be indicated on the Lower Scale. Illumination of Upper Scale segments, from left to right, indicate the strength of the target signal.

While still pressing the **Treasure Imaging** touchpad check the Lower Scale for the target depth in 1" increments. The Imaging Grid will also indicate depth but in 2" increments. Thus a target with a Lower Scale depth of 5" will be rounded up to 6" on the Imaging Grid.

Size/Depth on the Imaging Grid

Note that the size and depth information can change on the grid as the target is being centered beneath the searchcoil. The correct reading on the Imaging Grid will always be the smallest size and the shallowest depth. When these two are achieved at the same time the target is beneath the center of the searchcoil at the depth indicated.

Cone Effect

You may occasionally observe a size and depth reading similar to a cone. Such a reading with multiple indications of size and depth indicates that the detected target is too small or too deep to determine an accurate size and depth. The cone effect may occur when the target is significantly off-center from the searchcoil.

Batteries

The GTI 2500 detectors utilize a battery pack that requires eight (8) standard, alkaline, or rechargeable AA batteries in holders of four (4) each. When replacements are necessary, it is

recommended that only high quality standard, alkaline, or rechargeable batteries be used. It is advisable to remove the battery holders from the pack and the batteries from the holders when the detector is not in use, particularly for a period of weeks. The detector should operate 10 to 15 hours with carbon or rechargeable batteries and a longer time with alkaline batteries. After replacing the batteries perform the factory reset procedure.

Checking Condition:

Battery condition is reported on the LCD Display all the time the detector is turned on. Batteries should be considered weak when less than three (3) bars are displayed. They should be replaced when the battery scale reports only one (1) bar, or when the detector begins making target-like sounds when no target is encountered.

Battery Replacement

1. Turn the detector off.
2. Slide the battery pack to the rear slightly and remove the two battery covers.
3. Take out the two battery holders (which are not connected by wire) by tilting the detector.
4. Remove the old batteries from the holders.
5. Install the new batteries making certain to observe the polarity of the batteries.
6. Re-insert the holders into the battery pack. Make certain that the rivets on the bottom of the holders are toward the center of the battery pack when the holders are inserted.
7. Re-install the battery covers and slide the battery pack back into its normal position beneath the arm cuff.

Note: The detector must be turned off when the batteries are being replaced.

Please note that the detector will lose Audio Threshold and Depth/Sensitivity Settings when the battery pack is removed from the detector for more than approximately four minutes.

After changing the batteries, it is always wise to perform the factory re-set procedure.

OPERATING INSTRUCTIONS

TO BEGIN: Follow the instructions in the "Getting Started Section" for turning on your detector, noting the condition of the batteries, and setting of the Audio Threshold and any other function that may be desired.

MODE DESCRIPTIONS:

ALL METAL: Press and release the ALL METAL touchpad to activate this mode. Hunt in the All Metal mode when the greatest depth of detection is sought, as when searching for caches or deep relics. Electronic prospecting will also be carried out in this mode. Because no discrimination is possible when using this mode, all metal targets will be detected. Use of the LCD Display will give an indication of what kind of metal has been detected and can eliminate some needless digging on shallow targets.

Fast Track ground balancing is accomplished in this mode by pressing and holding the ALL

METAL touchpad while scanning the searchcoil for only a few seconds in a normal manner. Release the touchpad and Auto Track will continue to track ground minerals and instantly make all necessary adjustments.

SETTING DISCRIMINATION: The GTI 2500 features fully adjustable notch discrimination. It offers multiple selectivity and the ability to reject and accept targets in both the ferrous (iron) and non-ferrous ranges.

SEARCHING: Begin your search for coins or other treasure by lowering the searchcoil to a height of from one to two inches above the ground. Scan in front of you at a speed of one to two feet per second by moving the searchcoil from side to side in a straight line (not an arc). Always try to maintain a constant height. At the end of each scan path, move the searchcoil forward approximately one-half to two-thirds its diameter and scan a path in the opposite direction. This overlapping insures that you do not miss targets.

When any acceptable target is found, the sound level from the detector's speaker or headphones will increase to alert you. The voice feature, if activated, will supply verbal target information at this time also. The Imaging Grid will display target size and depth information at this time as well.

TARGET IDENTIFICATION: Target ID, conductivity classification, and size and depth of the last target over which the search coil passed will be indicated on the LCD Display Panel. Encrustation or patina, however, may result in improper classification. It is recommended that you always dig any weak, but audible target signal. It might be a coin just at the edge of your search coil's detection range.

TREASURE IMAGING (Electronic Pinpointing): Electronic pinpointing offers greater accuracy in target location. When a target is located, press and hold the TREASURE IMAGE touch pad to activate the detector's electronic pinpointing mode. A wealth of information is now beneath your fingertip, The Imaging Grid is displaying target size and depth data and the Graphic Target Analyzer (GTA), the Upper and Lower Scales, providing information to assist in the targets recovery. As long as the touch pad is pressed, the detector will operate in this mode. Still pressing the touchpad, place the searchcoil near but not above the target. Then, move the searchcoil over the target area. When sound is loudest and the upper scale reading is at its greatest deflection to the right, the target will be beneath the center of the searchcoil. At the same time, the lower scale reading is at its greatest deflection to the right, measuring depth. These two scales, upper and lower, cannot overlap each other. Depth reading is automatically calibrated regardless the size searchcoil coil used. After the touchpad is released, the detector will automatically return to the mode previously being used.

Practice pinpointing by placing a coin on the ground. Scan over this coin and use both pinpointing techniques just described. Notice how accurately you pinpoint. You should quickly become proficient to within one-quarter of an inch.

SEARCHCOILS: The GTI 2500 may be used with three (3) Scorcher and two Imaging (2) searchcoils and Garrett's Treasure Hound depth multiplier attachment with Eagle Eye Pinpointing.

The 9.5" Imaging searchcoil, provides excellent depth and good scanning width is the most

popular size used by coin hunters and for general searching over parks, playgrounds and beaches. For an area known to produce coins, rings and jewelry, this searchcoil should be used for initial searching.

The 4.5" Non-Imaging searchcoil, offers the ability to recover coins and other valuable objects from areas with large amounts of buried metal trash or in areas adjacent to such metal as playground equipment, fences and buildings. While Imaging is not possible, the 4.5" coils have a smaller diameter; they can detect fewer targets at a time and work in restricted areas. This eliminates the possible "masking" effect of junk targets. Electronic prospectors also quite effectively use the 4.5" Scorcher coil when searching for nuggets.

The 12.5" diameter Imaging searchcoil is useful for large and deep targets such as those normally encountered in cache and relic hunting. It will also detect coins and other small objects at greater depths than the smaller coils. Many coin hunters will switch to this size when a faint signal is heard while using a smaller coil, which may indicate a fringe-area target. There is also a non-Imaging 12.5" searchcoil for those seeking slightly less weight at the expense of Target Imaging.

The 10 x 14 inch Power DD Non-Imaging searchcoil is a must for searching in moderate and highly mineralized ground conditions. It is excellent for cache and relic hunting but its capabilities are not limited to these areas.

Another DD coil is the 5 x 10 Elliptical Non-Imaging searchcoil. For searching tight places where a larger, wider, round searchcoil is less than satisfactory, this coil is a must for every treasure hunter. Similar to the Power DD coil, it easily handles all but the most severe ground mineralization.

The Treasure Hound attachment eliminates the need for a separate "two-box" detector and multiplies the depth to which the detector can detect objects that are larger than a fruit jar. The Treasure Hound allows the detection of large targets more deeply, and is not bothered by small pieces of metal junk – minimizing unnecessary digging. With Eagle Eye Pinpointing You will now know where exactly to dig for those treasures of the past.

The detector automatically identifies that the Treasure Hound is in use and will allow only the All Metal mode selection. Press the ALL METAL touchpad to retune the audio to your preset threshold.

PROFESSIONAL PHASE

COIN HUNTING: After studying this Owner's Manual very carefully, you will be able to perform more tasks with the detector and complete them more easily. The following tips represent the experience of a professional with the detectors.

Deep coin hunting: For maximum depth and to avoid missing a small or very old coin, search in the Zero Discriminate mode. This will prevent missing an especially old coin that is so oxidized that it will be rejected by any discrimination. Should the sound become erratic, press the (-) touchpad to reduce the detection depth until the sound levels out. You are now operating at the maximum sensitivity possible under present ground conditions. The 12.5" searchcoil is recommended for seeking extra-deep coins.

Caution: When operating on ocean beaches where salt is found, do not attempt to hunt in the All Metal mode that requires ground balancing. Even though the Zero Discrimination mode automatically adjusts ground balance, we suggest the Salt Elimination Search Aid be selected to reduce any response the wet, salted sands.

Hunting in trashy areas: Use of Garrett's 4.5" searchcoil can aid tremendously in the search for coins in areas with large accumulations of metal trash. Although any size searchcoil will perform in this arena, the 4.5" searchcoil will produce the best results.

CACHE & RELIC HUNTING: Operating in the All Metal mode, attach the 12.5" Imaging or Non-Imaging searchcoil or the 10 x 14 inch Power DD searchcoil and increase the DEPTH/Sensitivity setting for maximum sensitivity possible (without erratic sound). Scan the searchcoil approximately four to six inches above the ground (depending on ground conditions) to eliminate erratic responses from ground minerals and small bits of metal. You will have super sensitivity and detect all targets dime-sized and larger. Caches and relics previously missed or overlooked will now be detected easily.

ELECTRONIC PROSPECTING: Even though the GTI 2500 detector is a universal detector, and excellent for prospecting, its very low frequency (VLF) circuitry will not detect some microscopic gold.

Nugget Hunting: Using the 9.5" searchcoil or the 10 x 14 inch Power DD Searchcoil the Fast Track ground balance system will leave the detector slightly positive in relation to the ground. This condition makes detection of small nuggets easier as detectors adjusted slightly negative have a tendency to overlook the smaller nuggets.

Hot Rocks: The GTI 2500 detector will instantly identify both types of "hot rocks" in any search area. Test for them in the following manner. Simply scan in the All Metal mode. When you locate a suspected hot rock, press the Last Mode touchpad; scroll to the Zero Discriminate mode, and pass back over the target in the Zero Discriminate mode. If the target is a hot rock, it will not respond. If it has sufficient metal content, it will respond as metal. If it is a large gold nugget or non-ferrous metal, the audio will sound. Because small nuggets or other metallic targets sometimes produce no response in the Discriminate mode, it is advisable to use this method only to test suspected hot rocks that respond loudly and positively to Non-Motion All Metal scanning. Note: Scrolling once to the Zero Discrimination mode establishes that as the "Last Mode". It is not necessary to do this every time you wish to switch to the Last Mode.

Searchcoil sizes will differ according to the area being searched. If the search area is in a dry wash or among large rocks that restrict the use of a 9.5" coil, change to the 4.5" searchcoil. When working in areas that have already been searched, your best option may be to change to the 12.5" searchcoil or the Power DD searchcoil. Extremely small nuggets may be missed with the larger coils, but the increased depth and sensitivity will permit you to detect deep nuggets that may have been previously missed. Professional nugget hunters know that one nugget of decent size is better than hundreds of microscopic ones.

Alkaline salt is heavily present in some rich nugget hunting areas. Attempts to search such areas with metal detectors have met with failure over the years because of the difficulty in ground balancing. However, by using the Power DD searchcoil or the 12.5" searchcoil and

searching in the Zero Discrimination mode and the Salt Elimination Search Aid turned on all targets are accepted, salt is ignored and large nuggets are detected.

Never attempt to operate any large searchcoil too close to heavy salt or extremely negative ground minerals. Maintain an operating height of approximately three to eight inches.

OPERATING RECOMMENDATIONS

As you operate and use your Garrett detector, you will quickly grow more proficient in its use. It is recommended that you build your own test plot. Bury several items, including a nail, a piece of foil, a pulltab, a bottlecap and several coins at depths of about two to eight inches and a foot apart. Clearly mark the location where each article is buried. Practice scanning the targets while listening to and studying the detection signals.

Remember that newly buried objects, especially coins, will be somewhat more difficult to detect than items that have been buried for some time. This is primarily a metallurgical phenomenon. Experiment with various Motion modes to see how your detector responds. Practice trying to pinpoint and locate targets precisely.

When scanning, do not hurry. Scan the searchcoil at a speed of about one to two feet per second. Keep the searchcoil flat and level to the ground. Move it back and forth slowly and steadily while you walk at a pace that is comfortable. Be methodical. Do not skip any areas. Wear headphones for greater sound perception and concentrate on your scanning.

After you have operated your Garrett detector for only a short time, you will be surprised at how proficient you have become in its use. Do not expect to achieve the greatest accuracy and success, however, until you have operated the detector for at least 100 hours or more.

Good hunting!

MAINTENANCE

Always remember that your Garrett detector is a sensitive electronic instrument. It is built to withstand rugged treatment in the outdoors, but you should always handle the detector as carefully as possible.

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 detector 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 read this Owner's Manual carefully.

You have followed the factory reset procedure. (This will solve many problems.)

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 this type of metal 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 detector 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 GTI 2500, observe 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.