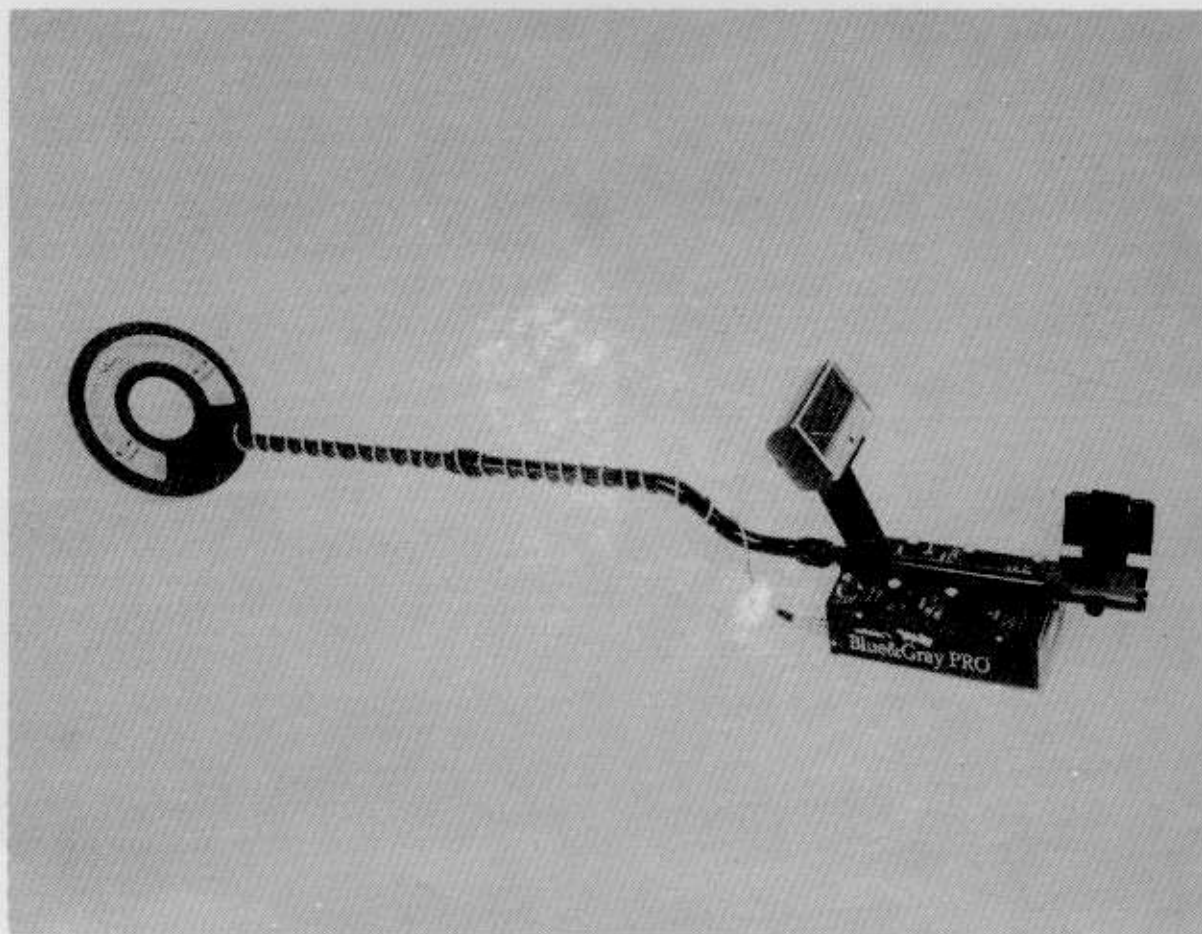




Blue & Gray Pro

Manufactured by White's Electronics Inc. Sweet Home, OR. U.S.A.

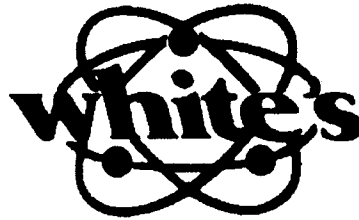
INSTRUCTION MANUAL



"I . . . propose to fight it out on this line if it takes all summer."

U.S. GRANT Dispatch from Spotsylvania

White's Electronics Inc.
A Message from...
A. Keith Zorger
White's of Mid-Atlantic



Congratulations on your purchase of the Blue & Gray Pro from White's Electronics, Inc. This metal detector has been especially designed to answer the call from Relic Hunters who demand top performance at a mid-range price.

The Engineers at White's have listened to suggestions from the field, and the results will quickly make this detector a favorite. From the preferred "Manual Ground Balance" control, to the custom designed "Target Identification Meter", the Blue & Gray Pro will astound you with its simplicity and performance.

Many well known Relic Hunters have been instrumental in adding to the production of this model. Their combined experience reaches over the century mark, and most of them could teach college level courses in military history. These successful treasure hunters have offered their ideas in order to make the Blue & Gray Pro all that you might want it to be. Chances are, your local authorized White's Dealer is one of these individuals.

It is important for us, as responsible metal detector operators, to adopt a set of ethics regarding the use of our detectors. Respect private property (permission to search must be obtained from the owner). Discover what laws are in place in your area regarding your metal detector, and any items of value you may find. Avoid areas designated as historical / archeological sights.

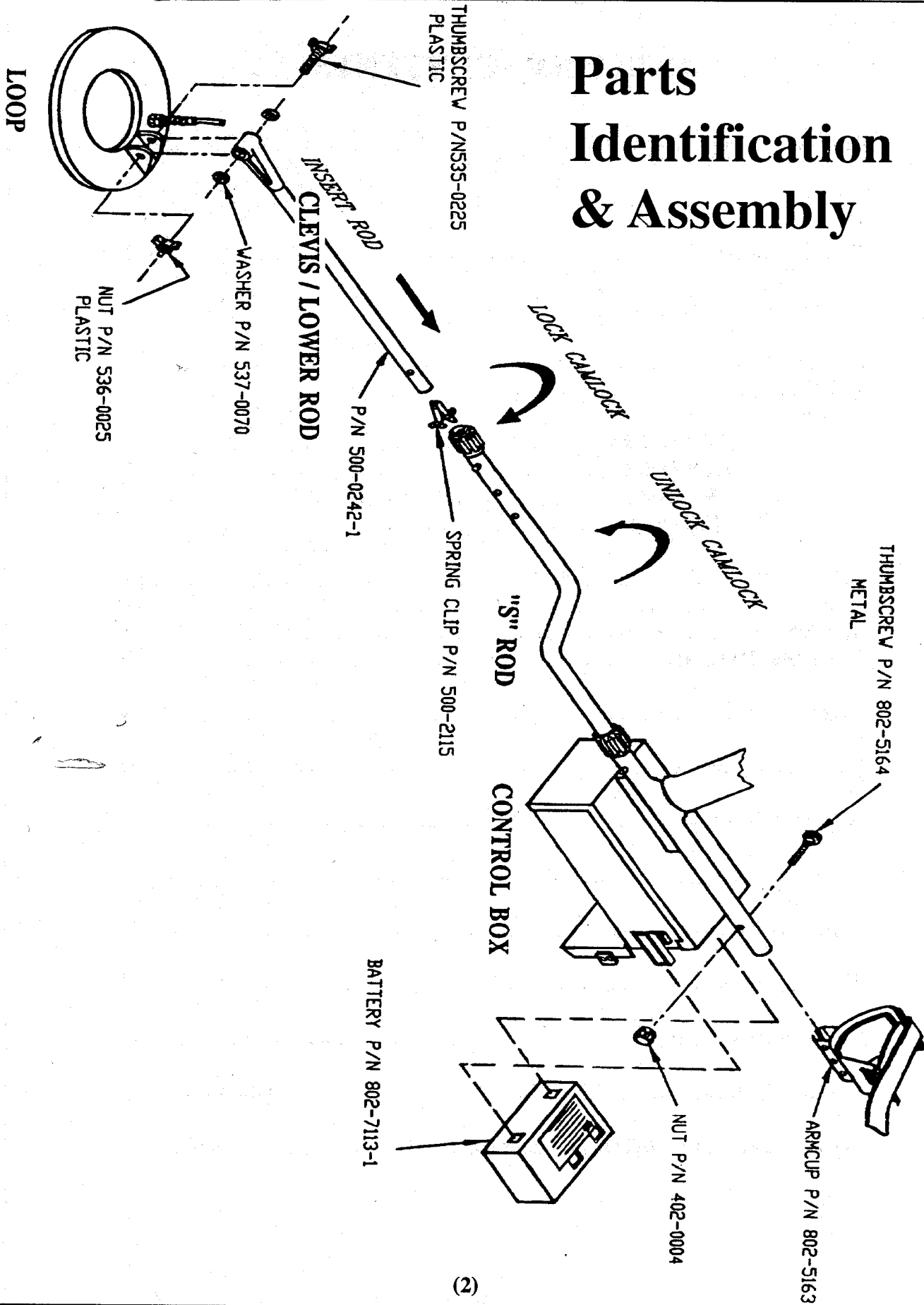
Enjoy the relaxation you will experience while using your metal detector. The uncovering of history is an exciting and fulfilling hobby. You now have the tools necessary to touch the past and share the experience with your friends and family.

A handwritten signature in black ink, appearing to read "A. Keith Zorger". The signature is written in a cursive, flowing style.

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Parts Identification & Assembly



Parts Identification & Assembly, Continued

1. Remove all parts from shipping carton. Check the assembly page to make sure all parts are present.
2. Place loop washers on clevis/lower rod, one on each side, and slide clevis onto loop ears. Use fiber bolt and thumbnut to secure.
3. Insert clevis/lower rod into curved "S" rod so that stainless steel spring clip buttons line up and lock into one of the adjustment holes in the curved "S" rod. Turn camlock to secure. (The second or third adjustment holes are suitable for average size adults. Individuals 6' or taller should consider the fully extended position. Individuals well over 6' tall should purchase the optional Tall Man Rod for a more comfortable fit.)
4. Remove the cable twist from the loop cable and wind the cable around the clevis rod with first revolution over the top of the rod. Leave a small section of slack in the cable near the loop to allow for loop tilting. Wind cable all the way to the top of the curved "S" rod. Use the black cable retainers, one near the loop, and one near the curve in the "S" rod, to hold the cable in place.
5. Insert curved "S" rod so that stainless steel spring clip buttons line up, and lock into the rod on top of the control box. Turn camlock to secure. Plug loop connector into control box, turn lock ring clockwise to secure.
6. Grip the instrument by the handle, with your arm in the armcup, and sweep the loop over the floor. If the instrument fit feels uncomfortable, adjust the armcup by removing and repositioning the bolt/thumbnut and installing in one of the optional positions. If necessary, readjust clevis/lower rod position.
7. Remove protective paper from the black armcup foam pad, carefully align it in the armcup, and press firmly into place.
8. Adjust the armcup strap so that it is loose enough to slide your arm in and out without loosening each time you want to set the detector down.
9. Install the battery pack (described in the next section) decal facing up, steel contacts facing toward the loop.

NOTE: Your detector may not work as expected indoors due to the high degree of metals used in modern construction. It is best to tune and practice out-of-doors to ensure stable, predictable results.

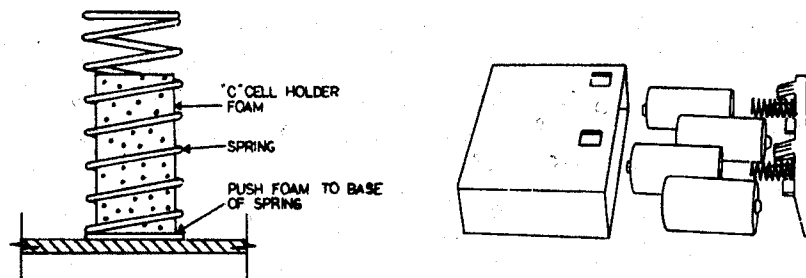
Batteries

Standard Batteries:

The standard battery holder supplied with your instrument holds four "C" size batteries. Alkalines are recommended as they supply more consistent power for longer time periods. Rechargeable "C" size batteries may also be used in this holder, although they will need to be removed from the holder for recharging.

Using The Standard Battery Holder:

1. Remove the battery holder lid by applying gentle pressure down on the four locking tab openings, two on each side, so that they unlock. Remove lid.
2. Note the position of each cell. The flat side of each battery cell fits against one of the four springs. There are two springs on the lid, and two in the case. The batteries fit alternating +, -, +, -.
3. Remove any weak cells and replace them with new "C" cells.
Caution: If the cells are put in backwards the detector may blow a fuse. Fuses can only be replaced by authorized service centers.
4. Line up the locking tabs on the lid with the locking tab openings on the battery holder. Snap the lid and holder together.
5. Insert the battery holder into the detector so that the decal is facing up, and the steel contacts are facing toward the insides of the detector.



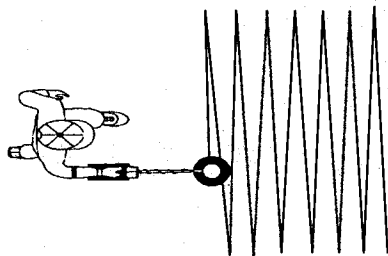
Rechargeable Batteries:

Although rechargeable batteries are not offered as standard equipment with the Blue & Gray, White's rechargeable battery #802-5185 and charger #509-0020-1 are recommended.

General Use

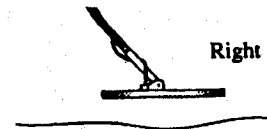
The Sig. Bal. (Signal Balance), Tuner, Volume, and Disc. (Discriminate) controls are marked with "N" to indicate their normally acceptable positions. Placing each of these controls to their "N" position, the MODE to GEB/DISC., POWER to HOT ROCK REJECT, and the GEB control to 5, this detector can be operated fairly well without tuning. Certainly this is not the preferred method (fine tuning is required for optimum results) however, a beginner may find the tuning steps inconvenient and the information on this page will get them out in the field hunting with a minimum of effort. Using the detector (without fine tuning) may ease the learning curve, making further study a smoother and more enjoyable experience.

To use the Blue & Gray without fine tuning set the controls as described above. Keep the loop sweeping from side to side very close to the ground, always moving. Those using a detector for the first time often sweep the loop too slowly; a brisk sweep of about two seconds for each pass is necessary.



Overlap each pass by at least 50%.

Keep loop flat to the ground.

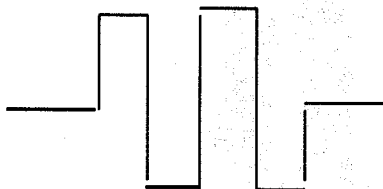


Non-iron targets sound smooth and solid, iron targets sound rough and broken or produce no sound at all. Ignore the meter until a smooth, solid sounding target is heard. When a smooth, solid sound is heard, sweep the loop over the area several times and look at the meter indication. Once the decision has been made to dig, squeeze and hold the Trigger on the handle and "X" the loop over the area to pinpoint and read its depth. The strongest sound and meter movement to the right indicate target center.

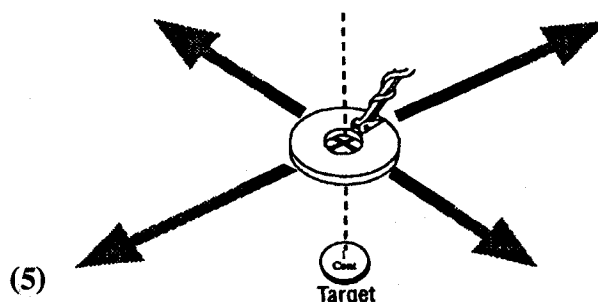
Good targets sound smooth.



Bad Targets sound rough.



Center of maximum signal equals center of target.



Fine Tuning:

Fine tuning the Blue & Gray Pro results in an immediate improvement in performance. The keys to fine tuning are the GEB, the SIG BAL control, and the MODE.

The GEB control is used to set the ground rejection. When the ground is rejected the detector can see deeper targets, and is less susceptible to ground interference.

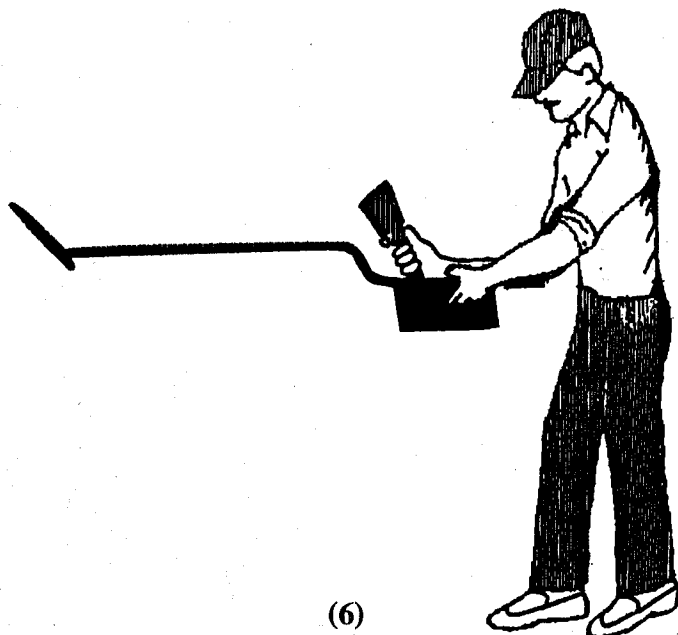
The SIG BAL control is used to regulate the maximum amount of ground signal the detector's electronic circuitry can handle. By finding the maximum amount of ground signal the circuitry can handle, maximum signal (maximum detection depth), can be achieved in each specific area.

The Mode control selects the type of detection desired, such as the detection of all types of metals, or the rejection of iron.

When a new area is to be searched, the following steps should be followed to maximize performance. When changing to another area, or when dramatic changes in the ground are visible, these steps should be repeated.

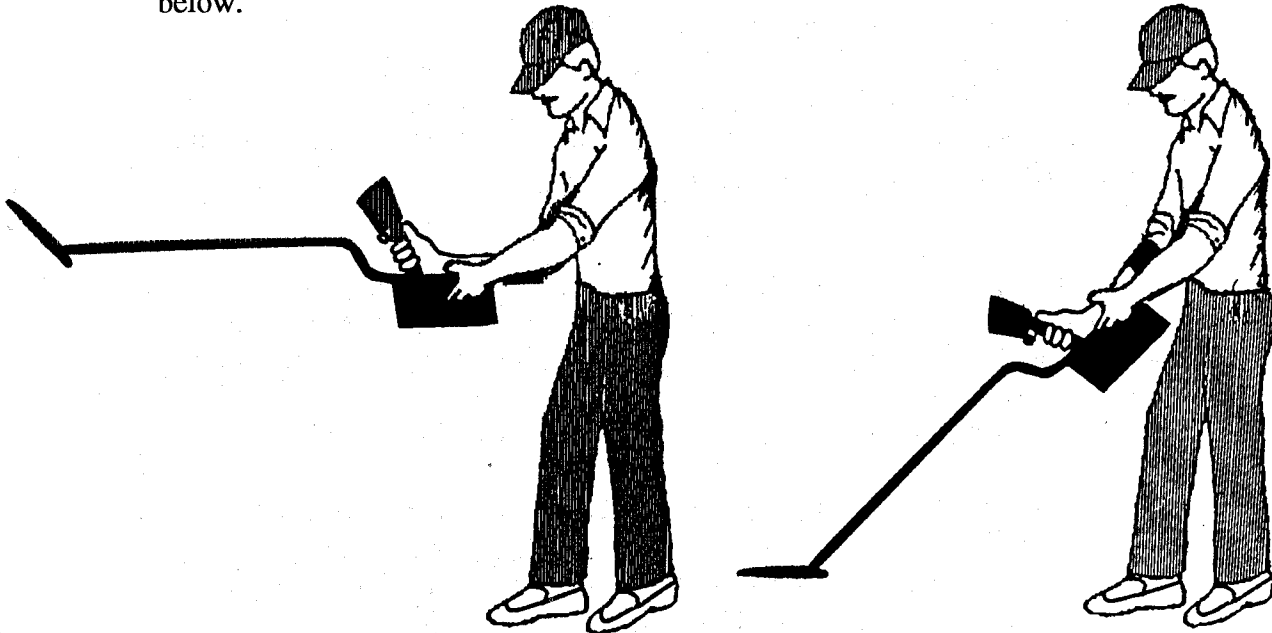
Fine Tuning Steps:

1. Place all controls to their "N" position, Mode to GEB/NORM, POWER to HOT ROCK ACCEPT, and GEB control to 5.
2. Hold the loop at waist level away from all types of metals. Squeeze and hold the TRIGGER on the handle, and adjust the TUNER control for a slight, faint hum (known as a threshold). Release the TRIGGER.



Fine Tuning & General Use, Continued

3. Lower the loop to the ground while listening for any dramatic change in the detector's steady hum (threshold). If there is not a significant change in the steady hum (threshold) the detector is tuned (ignoring the ground) and ready to be used, skip to step number 6 on page eight. If the steady hum (threshold) changed dramatically when the loop was lowered to the ground, further adjustments are necessary (the detector is not ignoring the ground). Proceed with step number 4 below.



4. If the steady hum (threshold) decreases or fades dramatically as the loop is lowered to the ground, turn the GEB control slightly clockwise, squeeze and release the Trigger (on the handle) with the loop held at waist level, and repeat step 3. The GEB control is a stacked tuner, coarse adjustment on bottom (large knob) fine adjustment on bottom (small knob). Start with coarse adjustments, then when close to the correct setting is found use the smaller fine adjustment knob.

5. If the steady hum (threshold) increases or blares dramatically as the loop is lowered to the ground, turn the GEB control slightly counterclockwise, squeeze and release the Trigger (on the handle) with the loop held at waist level, and repeat step 3.

Continue these steps 3, 4, and 5, until little or no change in the steady hum (threshold) is noted as the loop is lowered to the ground.

Note: If it seems difficult or impossible to get little change in the steady hum (threshold) as the loop is lowered, you may be attempting to tune on top of a piece of metal. Move to a different spot on the ground and repeat the above steps. If difficulties persist, start turning SIGNAL BALANCE slightly counterclockwise (toward BAD GND) and repeat the above steps until ground rejection is successful.

Fine Tuning & General Use, Continued

6. If there is no dramatic change in the steady hum (threshold) as the loop is lowered in step 3, or if steps 3-5 are easily accomplished with the SIG BAL set at "N", turn the SIG BAL control slightly clockwise, squeeze and release the TRIGGER on the handle, and then repeat steps 3-5. By finding the highest SIG BAL setting that allows ground rejection and smooth stable operation, maximum detection depth is achieved.

CAUTION: If ground rejection can not be achieved in steps 3-5, failure to turn the SIG BAL control toward bad ground, and repeating steps 3-5, will result in poor detection depth. A setting toward bad ground may also be required in areas of heavy electrical interference to promote smooth stable operation. Squeeze and release the TRIGGER on the handle, and repeat steps 3-5 after each SIG BAL adjustment.

7. The detector is ready to be used. However, an operator must still make an important Mode decision which will significantly alter how the detector responds. Every time the MODE control is moved to another position, squeeze and release the TRIGGER on the handle with the loop held at waist level. This resetting ensures that all parts of the electronic circuitry are working in unison.

A. GEB/NORM (All-Metal Ground Exclusion Balance Normal) is used for tuning, and in areas without lots of trash or mineralization, Relic Hunting. Because it responds to all types of metals, and doesn't operate as smoothly as GEB/SAT, GEB/NORM is usually not recommended for trashy or high mineral areas. If the detection of all metals is required without any loop motion, GEB/NORM would be the correct MODE to use. Because of its non-motion status, GEB/NORM is susceptible to drift from both internal and external sources. The TRIGGER on the handle will need to be squeezed and released (with the loop at waist level) every few minutes to reset the threshold hum, thereby keeping GEB/NORM operating correctly.

B. GEB/SAT (All Metal Ground Exclusion Balance Self Adjusting Threshold). If all types of metals are desired, (recommended for Relec Hunting and when prospecting for natural gold nuggets), the GEB/SAT MODE should often be selected. GEB/SAT will allow the detection of all types of metals while automatically maintaining smooth steady operation. This is necessary in trashy areas and/or areas with high mineralization. It is necessary to keep the loop moving slightly for GEB/SAT to continue responding to metal. Thus, when pinpointing, "X" the loop slowly, always maintaining some movement. Another option would be to switch back to GEB/NORM momentarily to pinpoint. GEB/SAT is also a good MODE to use for locating steel pipes or iron property stakes. Such targets are typically rejected in the discrimination modes. GEB/SAT will automatically narrow the detection field over detected targets making it better than GEB/NORM in searching trashy areas, typically having many targets close together.

Fine Tuning & General Use, Continued

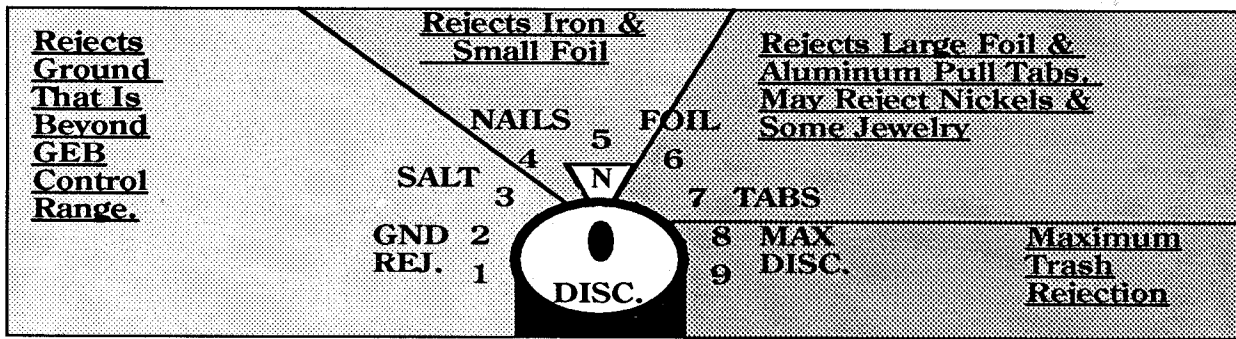
Note: Discrimination can be used in GEB/NORM or GEB/SAT simply by either consulting the Meter information or holding the Trigger switching to the GEB/DISC MODE to check each target that has been located.

C. GEB/DISC. (Ground Exclusion Balance Discriminate) When the audio rejection (speaker sound) of non-valuable metals, such as iron nails, bottle caps, etc. is desired, one of the DISC MODES should be selected. The GEB/DISC MODE is by far the most popular discriminate MODE to use. GEB/DISC is a true motion MODE. In other words, movement of the loop is critical for GEB/DISC to respond to metal. Practice with a steel bottle cap and a coin on top of the ground. See that when the loop is moved too slowly, or stopped, this MODE doesn't respond. Only when the loop is in motion will GEB/DISC perform as designed. Also note that the coin produces a smoother sound than the bottle cap, thus the rejection of trash metals is often recognized by the rougher sounds produced by trash targets. Because the Blue & Gray Pro is designed to detect as deep as possible into the ground, large targets on top of the ground may be rejected. This is known as overload. Sweep the loop several inches above targets that are on top of the ground for normal results. It is rare for overload to occur when targets are actually in the ground. On the same note, targets which you bury in the ground will seldom produce accurate test results. Metals have to be left in the ground undisturbed for several years before accurate tests can be made. This phenomena results from digging which makes the minerals look different than the surrounding ground (ground matrix scarring). Such targets act much like mineralized hot rocks and therefore are rejected. However, it is also known that corrosion factors (halo effect) play a significant role in increasing detection depth, as well as affecting discriminate accuracy.

D. TR/DISC. (Transmit Receive Discrimination) When searching low mineralized areas, such as the dry part of a tan sand beach, or any area that allows an extreme clockwise SIG BAL setting, you may want to take advantage of the TR/DISC MODE. In low mineralized areas, TR/DISC provides excellent detection depth, and superior trash rejection, as well as being a non-motion mode. When there are minerals in the ground, GEB/DISC will detect deeper than TR/DISC. Once the TR/DISC MODE has been selected, simply lower the loop to one inch above the ground, squeeze and release the Trigger on the handle, lower the loop the rest the way to the ground and search. Keeping the loop close to the ground at all times is critically important for TR/DISC to function properly.

CAUTION: Use of TR/DISC in high mineralized areas (which requires SIG BAL settings toward BAD GND) will result in poor results. There is a method of tuning TR/DISC for extremely high mineralized areas. It can then provide a non-discriminate, severe ground rejection, manual mode. This method is described in the Advanced Techniques section.

Fine Tuning & General Use, Continued



8. If either the GEB/DISC or TR/DISC MODES are selected, the DISC control then becomes active, and thus important.

A. The "N" position is recommended. At this position, most common trash such as nails, steel bottle caps, and light foil are rejected, and most valuables are accepted. The downside is that the aluminum pull tabs and aluminum twist-off bottle caps will still respond with a solid beep. The meter will often identify such targets as trash before digging. Some will however, read as good targets.

B. Turning the DISC control counterclockwise will provide even less trash rejection.

CAUTION: If searching saltwater beaches, the DISC control should not be reduced below the SALT indication marked on the dial. Salt, when wet, is conductive to a degree which cannot be rejected with the normal ground rejection feature. Rejection of salt is possible with a DISC setting clockwise of the SALT marking.

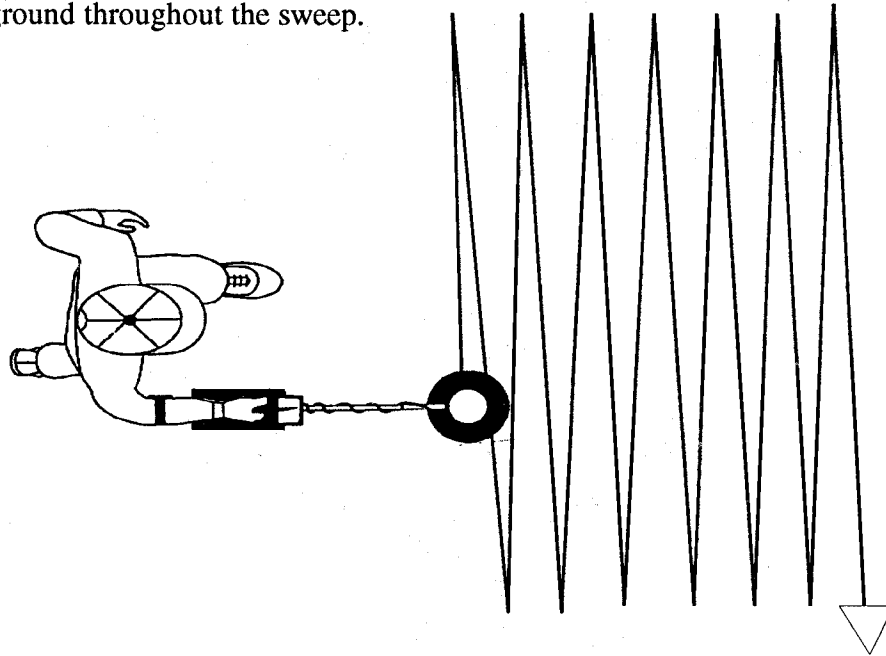
C. Turning the DISC control clockwise will provide more trash rejection.

CAUTION: If the DISC control is turned much further clockwise than "N", nickels and many gold items will be rejected.

Note; You may ask, "How can optimum discrimination be achieved"? The answer is, "Use the "N" setting, and watch the meter indications". Before long, trends will surface that give subtle clues regarding those difficult targets. Only when the number of accepted trash targets becomes unbearable would it be advised to increase discrimination above "N". Most difficult targets can be recognized through the use of the meter indications. Do not underestimate the value, and implications, of the target depth. Deep targets are more likely to be valuable. Often recommended is the highest DISC position that still responds to the U.S. nickel. Maximum trash rejection with minimum good target rejection is achieved.

Fine Tuning & General Use, Continued

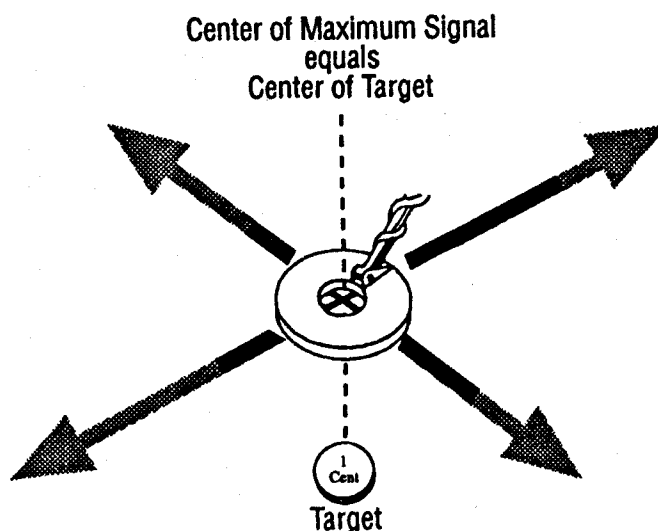
9. As searching begins, the sweep of the loop plays a critical role in how well the detector works. Sweep the loop close to the ground, from side to side, overlapping each pass. One pass from left to right should take one and a half to two seconds. Moving from right back to left, where the sweep first started, should take another one and a half to two seconds. The maximum detection depth will be in the center of the loop, thus if loop passes are not overlapped by at least 50%, some deep targets may be missed. Do not arc the sweep at each end. Keep the loop close to the ground throughout the sweep.



10. Once a smooth solid beep is heard, (indicating a good target), sweep the loop over the area several times. Consult the meter indication. Squeeze and hold the TRIGGER on the handle, and "X" the loop over the area. Note the furthest meter movement to the right. This pinpoints the targets precise location, and how deep it is in the ground. The meter depth indication scale is the (9+ to 1) information located toward the lower portion of the meter face. Depth is measured in inches, and the meter only displays its depth measurement while the TRIGGER is squeezed. Deeper targets are more likely to be valuable and more likely to produce questionable responses, thus deeper, questionable targets should often be dug. The meter and sound are more accurate on shallow targets. However, strong targets that are shallow may overload, producing a junky sounding response. Lifting the loop a few inches higher and again sweeping over the area will improve discrimination accuracy in such cases. Additionally, once a questionable target's precise location is determined, release the TRIGGER and sweep the loop directly over the center, again consulting the meter. The most accurate indications are achieved when the loop is swept directly over the center of the target.

Fine Tuning & General Use, Continued

11. Pinpointing and digging take some time and practice. Many different types of digging tools are available to help you. If you don't yet have a digging tool, contact your dealer. The type of digging tool best for your area, your type of searching, and best for you personally, is a matter of opinion. The important thing to remember is consideration. Fill in all holes you dig. Be thoughtful regarding where and when you dig. Obviously midday on a beach crowded with sun bathers, is not a good place to search. Early morning or late evening are more appropriate. If someone cares for a lawn (keeps it looking nice) and yet gives you permission to search, be equally thoughtful by taking extra steps to minimize any damage digging may do to the vegetation. The use of a small drop cloth (to place dug soil onto) is suggested in such areas. This minimizes soil smearing around the hole, making such diggings less noticeable.



12. A location to search, and getting permission, is a major part of successful metal detecting. Research always pays off. It may mean digging through old newspapers at the local library, documents at city hall, or just talking to a lot of longtime citizens. You will be surprised what you can find out, and research can be half the fun! Do not be discouraged if someone has already searched an area, that just makes for a little more challenge. No one finds all the valuables in an area even with multiple searches. Take a little more time and dig a few more of the questionable targets. Often areas replenish themselves either through use, such as a beach where jewelry is continually lost, or through naturally occurring shifts in the soil, frost heave, erosion, etc., which bring previously undetected targets within reach. Sand and soil movement in many areas makes each season a new ball game.

Explanation Of Controls

1. Power: The Power control turns the instrument ON/OFF, selects either Hot Rock Accept or Hot Rock Reject, and tests the battery strength.

A. POWER OFF position is selected when the detector is not in use.
(Batteries should be removed when the detector is stored.)

B. HOT ROCK ACCEPT / REJECT only affects the GEB/DISC MODE.

1. ACCEPT provides maximum results. This setting may, however, be plagued by false signals in some areas. These false signals are caused by mineralized rocks and are recognized by a meter indication pegging left and/or right firmly, and the audio signal often disappearing upon attempting to pinpoint. Typically ACCEPT produces more audio sounds which need to be interpreted by the operator.

2. REJECT eliminates most of the false signals associated with mineralized rocks. Rejection occurs by a nulling or fading of the audio sound. The meter may still peg left and/or right over such targets. REJECT cancels responses caused by rocks higher in mineral than the current ground rejection setting. By definition this is a hot rock. The drawback is that some very deep targets, in highly mineralized ground, may appear to be similar to a hot rock, and be rejected. It is recommended to use this reject position until some field experience is gained. At the point of becoming comfortable with field use, try using the ACCEPT position. If hot rocks make it unbearable to search, switch back to REJECT. If hot rocks are not a problem, or if you can easily identify them with the meter and pinpoint mode, continue using the ACCEPT position.

C. BAT. CHK. Battery Check is used to check the condition of the batteries. When placed in this position, the current battery condition is shown on the meter. An indication anywhere in the BATTERY OK area will operate the detector. Once the battery no longer indicates in the BATTERY OK area, new batteries should be installed. Usually batteries last between eight and fifteen hours of use. (Battery life varies with type, temperature, mode, and volume.) The use of headphones will significantly improve battery life. Standard battery power tapers off steadily. Rechargeable battery power plateaus for most of its life, then rapidly drops below a usable level (always carry backup batteries).

Explanation Of Controls, Continued

2. Tuner: The Tuner selects the steady hum or threshold which should be heard continually during use. The Tuner should be set to a slight steady hum (threshold), with the volume at "N", each time the instrument is to be operated.

A. To set the Tuner place the Mode control to GEB/NORM, hold the loop at waist level away from all metals or ground minerals, squeeze and hold the Trigger on the handle, and turn the Tuner control until a very slight faint hum (threshold) is heard. Release the Trigger. Tuner control should end up near the "N" mark.

B. Silent Search once the threshold has been set, the Tuner can be turned slightly toward MIN to produce silence until a target is detected. Some detection depth may be compromised.

C. Volume The TUNER control selects the threshold or background hum. The maximum volume, loudness the Blue & Gray Pro beeps at metal, is factory set at maximum and is not adjustable. To reduce the volume level requires the use of headphones with volume controls. Headphone use adds to the privacy of the user, increases battery life, and allows for volume adjustments.

Explanation Of Controls, Continued

4. Mode: The Mode control selects the manner in which the detector operates, such as the detection of all types of metals, or the rejection of some metals, the rejection of ground minerals, etc. Mode selection has the greatest impact on how the detector operates and performs. No single Mode will offer all the advantages an operator desires, therefore four different modes are available.

A. GEB / NORM responds to all types of metals while rejecting ground mineralization. It is a true non-motion Mode, which indicates that the loop can be held stationary over a metal target and the detector will continue to respond. This makes GEB/NORM an excellent Mode to Relic Hunt as well as pinpoint a target's exact location. If the Trigger is squeezed and released several times as the loop is passed over the target area, more precise pinpointing can be achieved. This is called de-tuning. Before continuing to search, lift the loop to waist level and squeeze and release the Trigger once more to clear for wide-scan searching.

B. GEB / DISC rejects some metals based on the DISC control setting and rejects ground mineralization. It is best used for coin, beach, and general purpose searching. It is a true motion Mode, which indicates that the loop must be continuously swept (kept in motion) for metal targets to continue to respond. GEB/DISC rejects junk and ground minerals and thus operates smoothly and efficiently. Squeezing and holding the Trigger switch (on the handle) will temporarily access the GEB/NORM Mode for pinpointing. Releasing and re-squeezing the Trigger several times will allow more precise pinpointing (de-tuning). Before continuing to search, squeeze and release the Trigger once more with the loop at waist level to clear for wide-scan searching.

C. TR / DISC rejects some metals based on the DISC control setting. It will not reject ground minerals when set for discrimination, thus is only recommended for very low mineralized areas such as tan or white color sand, or areas which allow extremely high SIG. BAL. settings. TR/DISC has superior rejection against junk and is a true non-motion Mode. However, it will not penetrate mineralized ground and reject trash at the same time. (*See section on Advanced Techniques for setting TR/DISC for extended manual ground rejection.*) The TR/DISC Mode will pinpoint well. Holding the trigger temporarily switches to GEB/NORM and depth reading if extra help is needed for pinpointing the target's exact location.

Explanation Of Controls, Continued

D. GEB / SAT responds to all types of metals while rejecting ground minerals. Unlike GEB/NORM, the GEB/SAT Mode has a feature called Self Adjusting Threshold which smooths operation over varied ground. This feature makes GEB/SAT a better choice for general all metal searching and Relic Hunting. Although it is not a true motion Mode, loop motion is required for GEB/SAT to continuously respond to a metal target. To pinpoint, either slow the loop sweep in an "X" pattern over the target area, hold the Trigger and "X" the area using the meter with no audio sound, or switch to GEB/NORM and pinpoint as described for that Mode.

5. GEB: The GEB control is used to select the actual ground rejection setting, so that ground minerals can be ignored. When ground minerals are ignored, increased detection depth and smoother operating stability are achieved. Setting the GEB control is recommended each time you use your instrument. The GEB control is a stacked tuner, coarse adjustment on bottom (large knob), fine adjustment on top (small knob).

A. To set GEB place all controls to "N", Mode to GEB/ NORM, POWER to HOT ROCK ACCEPT, GEB control to 5. Hold the loop at waist level away from all types of metals and ground minerals, Squeeze and hold the Trigger and adjust the TUNER for a slight hum (threshold), release the Trigger. Lower the loop to the ground while listening for any change in the threshold hum. Proper ground rejection is indicated by little or no change in sound as the loop is lowered to the ground. If the sound decreases as the loop is lowered to the ground turn GEB control slightly clockwise, squeeze and release the Trigger switch with the loop held at waist level, and again lower the loop to the ground. If the sound increases as the loop is lowered to the ground turn the GEB control counterclockwise slightly, squeeze and release the Trigger switch with the loop held at waist level, and again lower the loop to the ground. Continue until little or no change in threshold is noted as the loop is lowered. Use the large coarse knob until close to the correct setting is found, then use the smaller fine adjustment to fine tune.

B. Difficulties may indicate you are attempting to balance over a metal, move to another spot on the ground and repeat the above steps.

C. Persistent trouble with this setting should be remedied by turning SIGNAL BALANCE control slightly counterclockwise (toward BAD GND) and repeating the above steps. The furthest clockwise SIGNAL BALANCE setting that allows ground rejection, and smooth stable performance, should be used.

Explanation Of Controls, Continued

6. DISC: The Discrimination control selects the amount of rejection against junk metals such as nails, tin or aluminum foil, etc. It only affects the GEB/DISC and TR/DISC MODES.

A. GND REI (Ground Reject) is used when operating one of the discriminate modes. Indicates lowest DISC. setting that rejects extreme ground mineralization.

B. SALT indicates the DISC control must be set at this point or higher (further clockwise) when used on a saltwater beach. Salt is conductive when combined with water and tends to respond like a metal rather than a mineral. The DISC control can cancel much of this salt response when set at salt or higher.

C. Nails indicates the point on the dial that most iron is rejected.

D. "N" is the recommended setting for coins and general purpose searching. At the "N" setting, most common junk is rejected and most valuables are detected. Settings further clockwise than "N" may reject common gold jewelry, small brass, and lead. By determining the highest point on the DISC. dial that still responds to the U. S. nickel most gold can be recovered. When the DISC control is set to this point, maximum rejection of junk is achieved with very little rejection of gold. However small brass can be in jeopardy.

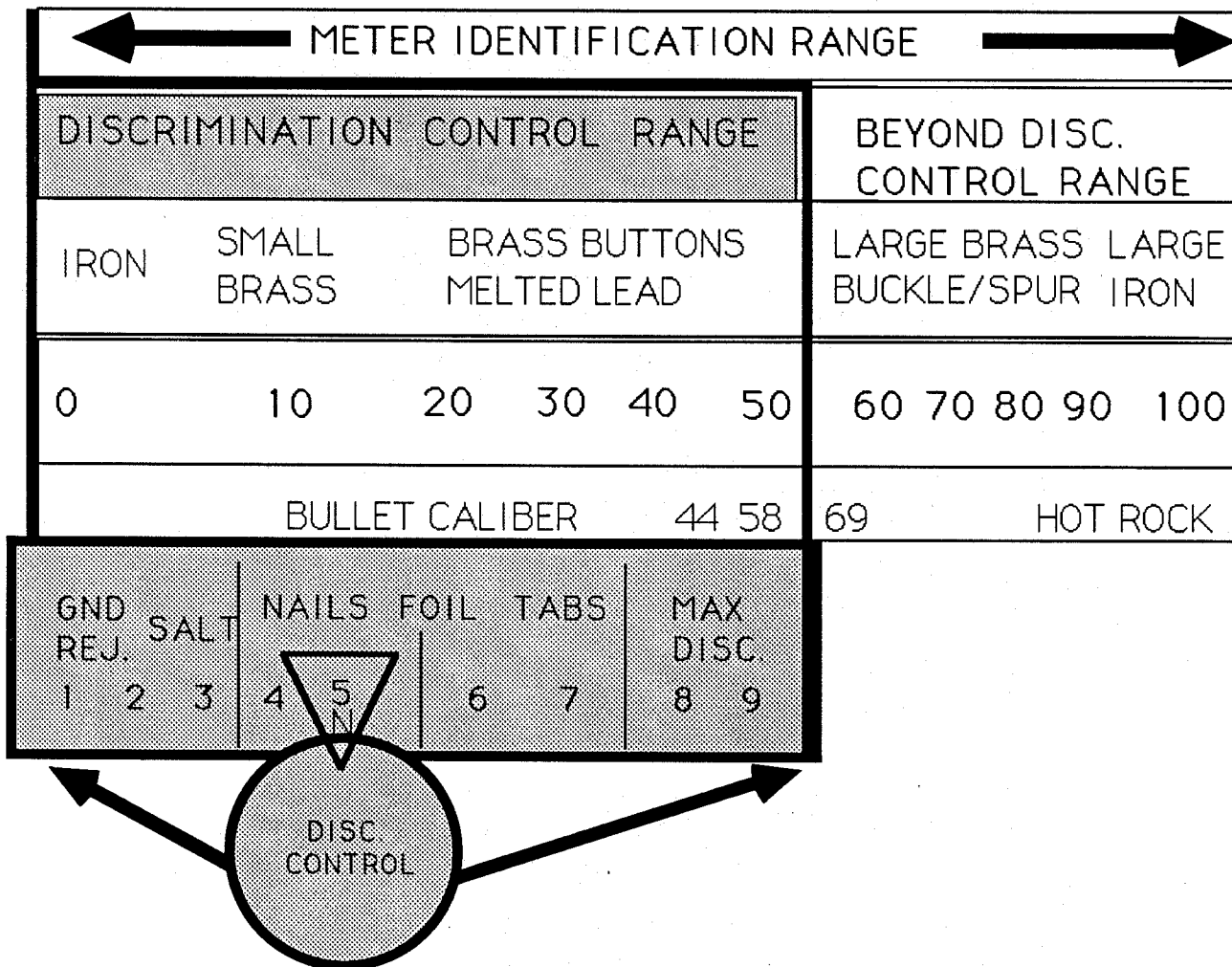
E. DISC control range from "N" through MAX is represented on the meter. The "N" setting represents a setting between 20 and 30 on the meter. Small Brass can be rejected counterclockwise of "N". Melted Lead may not be rejected until the DISC. control is turned clockwise of "N". The reasons for limited DISC. use when Relic Hunting are obvious.

F. MAX DISC. would represent a setting on the meter just below Large Brass. (*See Meter section page 22 for more on meter indications.*)

G. It is advised to use "N" or slightly lower DISC control settings, and then use the meter to further decide if a target is worth digging. Both meter identification and depth indication are important factors to consider. (*See Meter section, page 22.*)

Explanation Of Controls, Continued

H. When the DISC control is set to a particular position and the Mode control is set to one of the DISC Modes, all targets which fall counter-clockwise of that DISC. control position will be rejected. They will not respond with an acceptable smooth solid sound. Typically, either no sound will be heard or a broken "cut-short" sound will be produced by such rejected targets. Everything clockwise of that position will be accepted. Accepted targets produce noticeably smoother, more solid sounding responses.



Explanation Of Controls Continued

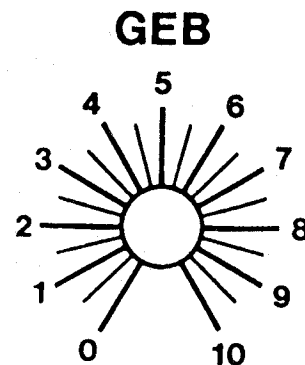
7. SIG BAL, (Signal Balance): The Signal Balance control allows the amount of receive signal coming from the loop into the circuitry to be controlled, thus optimizing detection depth in a variety of ground conditions.

A. To set the SIG BAL, find the furthest position clockwise which allows ground rejection and smooth stable operation. (*See Fine Tuning, pages 7 and 8.*)

B. High Mineralization typically will cause more receive signal than the electronic circuitry can handle. Such conditions result in overload of the receiver, which will cause poor detection depth. A SIG BAL setting toward BAD GND will reduce the size of the receive signal to a manageable level, thereby improving detection depth and stability.

C. Low Mineralization typically has little or no effect on the receive signal, therefore a SIG BAL setting further clockwise will improve detection depth. At some point as the SIG BAL control is turned clockwise, the detector will become unstable and unpredictable. A slightly counterclockwise SIG BAL setting will regain the stability necessary for good detection results. (More range than is usable is allowed on the SIG BAL control to allow for all possible conditions one may experience.)

D. The GEB control must be reset after every SIG BAL adjustment. Failure to reset the GEB after a SIG BAL adjustment will result in improper ground rejection and poor performance. The SIG BAL and GEB controls work hand in hand to tune out the effects of the ground and maximize detection depth.



Explanation Of Controls, Continued

8. TRIGGER SWITCH: The Trigger Switch located on the handle is used for several different purposes. The Trigger has three possible positions; "center" which is used for normal searching, "squeezed and held" which activates a temporary change in the mode and meter, and "locked forward" which is the same as squeezing and holding except mode and meter changes are locked in.

A. Reset, clear, or retune after control adjustments or pinpointing. Most control adjustments will cause sections of the electronic circuitry to become out of sequence. Squeezing and releasing the Trigger will reset or clear so that all the electronic circuitry works in unison. Manual pinpointing (when the Trigger is squeezed and released while the loop is near the target) will narrow the loop's detection field. This is called de-tuning. The loop's detection field will remain narrow until the Trigger is squeezed and released (while holding the loop away from any targets). This resets the loop's detection field allowing it to detect its widest possible search pattern.

B. Changes Mode to the opposite of that in use. If operating in GEB/DISC mode, squeezing and holding the Trigger switch will temporarily activate the all-metal GEB/NORM mode. This is ideal for pinpointing as GEB/NORM requires no movement of the loop to respond to metal targets. Releasing the Trigger returns the instrument to the original mode. The mode changed to depends on what mode the instrument is in at the time.

1. When operating in GEB/NORM, holding the Trigger will switch to GEB/DISC. This is useful as GEB/NORM ignores most mineralized rocks, hot rocks, and detects all metals. A determined operator may want to search in GEB/NORM and hold the trigger to check each target in GEB/DISC. This type of searching takes a lot of patience as all types of metals will respond. It is however, a very good way to Relic Hunt.

2. When operating in GEB/DISC, holding the Trigger will switch to the GEB/NORM mode. This is useful as GEB/DISC must always have loop movement to respond to a metal target, making pinpointing difficult. GEB/NORM requires no loop movement to respond to metal targets.

3. When operating in TR/DISC, holding the Trigger switches to the GEB/NORM mode. This can be usefull in checking deep weak responses.

Explanation Of Controls, Continued

Trigger Switch Mode Changing, Continued

4. When operating in the GEB/SAT position, holding the Trigger switches to the GEB/DISC mode. This can also be used in the same manner as GEB/NORM. Searching in the GEB/SAT mode all metals are detected with little trouble from mineralized rocks (hot rock). Once a metal target is located the Trigger can be held (switching to GEB/DISC mode) to check the target. Again this is a very good way to Relic Hunt.

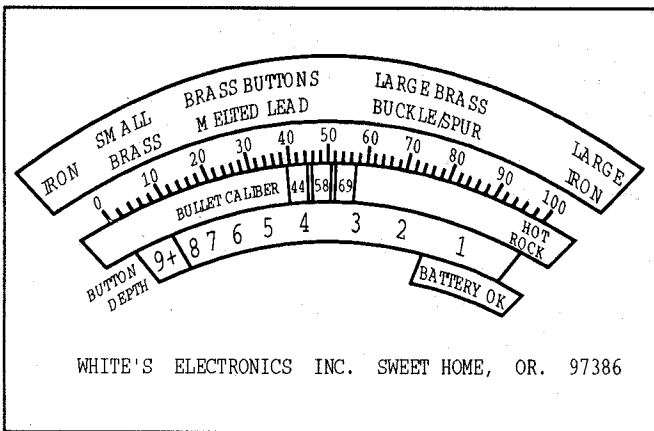
C. Meter Switching Whenever the Trigger is squeezed and held, the meter changes from indicating probable identification to indicating likely target depth. This is true regardless of what mode is being used or switched to. It provides valuable information about the target and can also be used to aid pinpointing. Depth reading indicates a target's likely distance from the loop bottom. The likely target depth will indicate the furthest to the right (shallowest depth indication) when centered above the metal target. The depth meter is calibrated for button size targets. Metals larger or smaller than a button will not give accurate depth indications. (The depth indication is the lower section of the meter face and is listed in inches, from 9 plus to 1.)

MODE CONTROL	TRIGGER CENTERED		TRIGGER SQUEEZED & HELD, OR LOCKED	
	OPERATING MODE	METER	OPERATING MODE	METER
GEB/NORM	GEB/NORM	TARGET I.D.	GEB/DISC	TARGET DEPTH
GEB/DISC	GEB/DISC	TARGET I.D.	GEB/NORM	TARGET DEPTH
TR/DISC	TR/DISC	TARGET I.D.	GEB/NORM	TARGET DEPTH
GEB/SAT	GEB/SAT	TARGET I.D.	GEB/DISC	TARGET DEPTH

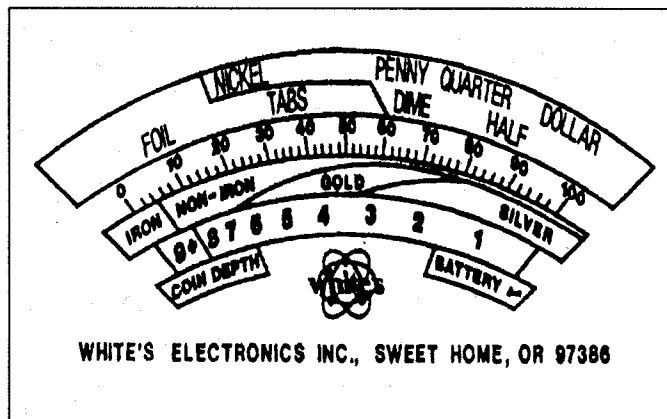
The Meter

The Meter indicates probable target identification, based on a comparison of common targets and probable depth (how deep the metal target is likely buried in the ground) based on a metal the size of a button. Both of these measurements are designed to provide valuable information about the metal target before it is dug.

1. Probable Identification is listed on the meter in three scales, IRON through LARGE IRON, 0 through 100, and BULLET CALIBER through HOT ROCKS. Only those indications which are fairly consistent are of value.



BLUE & GRAY METER



6000/Di Pro METER

A. IRON - LARGE IRON scale gives an indication as compared to common USA type relics. Some overlapping occurs due to varying amounts of the alloys used in over their years of production. Any indication from SMALL BRASS up to LARGE BRASS could possibly be valuable jewelry.

B. 0 - 100 is often used for referencing targets not listed on the scale (foreign coins), or those which do not seem to indicate where expected. This is of particular assistance when trying to limit the number of troublesome undesirable targets. See what number they usually indicate and start passing up targets which indicate that particular number. The aluminum pull tab and V-nickle are a particular challenge. Pull tabs can vary in their indication depending upon the tail being attached or bent in an unusual shape. The nickle can also vary with wear, corrosion, and ground conditions. Another challenge is tin cans. They indicate similarly to large relics. By using the 0-100 scale, and the above 6000/Di Pro meter above as a reference, coin and other common items can be predicted.

Meter, Continued

C. BULLET CALIBER scale gives some indication of where common bullets may indicate. The overlapping effect bullets have over the brass area is apparent. Two bullets, both of the same size and weight, may indicate differently on the meter. Exactly what the metal alloy contains will dictate meter indications. As an example jewelers mix many different metals with 14 K gold to harden it for better wear, and tailor the exact shade or color of a piece of jewelry. Because of these differences in alloy pinning all jewelry down to exact meter indications is not possible. Similarly, natural gold nuggets are not pure 24 K gold. They are, in fact, alloys of gold mixed with other metals. The exact mixture will affect where they indicate on the meter. Natural gold usually indicates SMALL BRASS. Lead and brass alloys also vary, thus their indications will vary somewhat on the meter.

D. Size And Shape will affect the meter indications as well. For example, large pieces of brass will tend to indicate higher on the scale, small pieces of brass will indicate low. The surface area has more of an effect than actual size. A spread-out flat piece of brass will indicate high on the scale. The same piece of brass bent will tend to indicate low on the scale. Similarly, depth indications are affected. The highest degree of accuracy can be expected on button size targets laying flat. Less accuracy will result from buttons on edge, and even less accuracy from metals larger or smaller than the medium size button.

E. Probable Meter Identification is not tied directly to the audio sound (beep) of the instrument. The meter indication and audio discriminator may not agree as to whether a metal is valuable or not. The meter operates independent of the audio discriminator. It offers a second opinion as to whether a metal target should or should not be dug. Peculiar ground conditions can make the meter indications more or less accurate than the audio discriminate sounds.

F. Practical Application means an operator will consult the audio discrimination and meter indications simply as measurements, comparisons to known metals, and opinions, as to whether a metal target should or should not be dug. Ultimately it is the individual who must decide through experience and interpretation, which indications mean good metal targets in the area being searched.

Meter, Continued

2. Depth Indication is listed on the lower section of the meter face, 9 + 8 7 6 5 4 3 2 1. The Meter only indicates depth when the Trigger is held or locked forward. Depth is indicated in inches from plus nine through one, and is only accurate on metal targets the size of medium buttons. In addition, accuracy is reduced by the use of alternate-size accessory loops and performance Signal Balance settings.

A. Reading Target Depth is achieved in any mode simply by squeezing and holding in the Trigger, or locking it forward, and sweeping the loop slowly over the area. The strongest reading, shallowest depth indication (furthest meter movement to the right), indicates the center of the metal target and its depth in inches.

B. Depth Implications should not be overlooked. For example, if the audio and/or the Meter indication leaves some doubt as to if a metal target is worth digging, check the depth. A deep questionable target should be dug. Audio discrimination and Meter identification accuracy tapers off at extreme depths. Many valuable finds produce questionable responses, but show deep depth indications. As audio discrimination and Meter accuracy are greatest at the shallow depths, questionable targets which indicate shallow depths are more likely to be trash. To be sure, sweep the loop a little higher above the metal target. Good metal targets often will start producing a better sound and better meter indications. Junk targets still indicate junk. Another problem can result from several metal targets close together. Try pinpointing the general area. If several different pinpoint spots appear, release the Trigger and try sweeping each individually for greater accuracy.

C. Depth Reading Errors will be consistent when it comes to accessory loop sizes, Signal Balance settings, and metal targets not of button size. For example if a particular target smaller than a button indicates three inches deep, and after digging is found to actually be two inches deep, you can assume that all similar size, shape, and alloy, targets will indicate an inch deeper than they actually are. If a target larger than a button indicates three inches deep, and after digging is found to actually be six inches deep, you can assume that all similar size, shape, and alloy, targets will indicate three inches shallower than they actually are. Loops larger than the standard size, and high performance Signal Balance settings (clock-wise from "N") will show all targets more shallow than they actually are. This knowledge of error can be used to determine actual depths.

Relic Hunting Basics

1. Most Relic Hunting is completed in either the GEB/NORM or the GEB/SAT MODES.

A. GEB/NORM should be used in areas free of trash and heavy mineralization.

1. All metals will respond thus many signals in a small area will easily be identified.
2. High mineralization can be identified by difficulties setting, and maintaining, ground balance (ground rejection).

B. GEB/SAT is more suited to difficult conditions (trashy or high mineralization).

1. All metals respond however, the SAT feature tends to narrow the loops detection field making searching in heavy trash easier.
2. The SAT feature automatically smooths operation over high mineralization. This makes constant re-setting of the GEB control unnecessary.

C. The equivalent of GEB/MAX available on older White's models, is available on the Blue & Gray Pro. Simply maximize the SIGNAL BALANCE control during setting of the GEB control, and then use either the GEB/NORM or GEB/SAT MODES.

2. Discrimination while searching in GEB/NORM or GEB/SAT can be performed in either of two ways;

A. Trigger MODE changing. Make sure the DISC control is between 4 and 5 on the dial. Once a target has been located squeeze and hold the Trigger (on the handle), and again sweep the loop over the target. A smooth solid sound indicates a metal not made of iron. No sound at all or a broken cut short sound indicates an iron type target. In general weak, small, broken sounds are usually small iron such as a nail. Stronger larger broken sounds are usually guns, shells, or other relics of interest.

B. Meter. Once a target is located in GEB/NORM or GEB/SAT simply consult the Meter indication. Small iron will peg left, large iron may peg left and/or right. Non iron indicates somewhere in-between.

Advanced Techniques

There are many advanced searching techniques used with today's metal detectors, the scope of which can not be covered in any instruction manual. Once the information in this manual is fully understood, special uses and conditions will become a matter of common sense, experience, and experimentation. The following advanced technique has many different uses. It provides a way of manual ground rejection that has a range far beyond that possible with the standard system. Primarily used for prospecting natural gold nuggets, it also can be useful in other high mineral areas such as black sand salt water beaches.

1. To Begin place all controls to "N", MODE to GEB/NORM, POWER to HOT ROCK ACCEPT, GEB to 5, and DISC in the middle of the area marked GND REJ. (ground reject). Squeeze and hold the Trigger with the loop at waist level, and adjust the TUNER for a very slight faint hum (threshold). Release the Trigger, place the MODE to TR/DISC.

2. Lower The Loop to the ground while listening to the slight threshold hum. The hum will either increase, decrease, or stay the same. The desire is to find the point on the DISC control that allows the loop to be lowered to the ground with no noticeable change in the threshold hum. This indicates the ground is being ignored.

3. If The Hum Increased as the loop was lowered to the ground, turn the DISC control clockwise very slightly, lift the loop to waist level squeeze and release the Trigger, and again lower the loop to the ground while listening for any change in hum.

4. If The Hum Decreased as the loop was lowered to the ground, turn the Disc control counterclockwise slightly, lift the loop to waist level squeeze and release the Trigger, and again lower the loop to the ground while listening for any change in hum.

5. Continue the above steps until little or no change in hum is noted as the loop is lowered to the ground. Note that a very small adjustment of the DISC control has a dramatic effect, so each adjustment will need to be as small as possible.

Advanced Techniques, Continued

6. At this point the detector is ready to be used and will perform very similarly to the GEB/NORM MODE but with greater ability to reject extreme ground mineralization. The detector will be susceptible to occasional electronic drifting. Lifting the loop to waist level and squeezing and releasing the Trigger will be necessary to maintain the threshold. Additionally, changes in the ground such as dry sand to wet saltwater sand will be dramatically apparent. Attempts must be made to search one general area of a similar ground type, then when changing to another ground type re-tune as previously described under steps 2-5, of this section. Some areas of quickly changing ground conditions will be impossible to search using this method. The GEB/SAT MODE is better suited to these areas.

7. The SIGNAL BALANCE control will have an effect on the TR/DISC Mode. As with the GEB/NORM Mode, the Signal Balance control should be set at the furthest point that allows ground rejection. Ground rejection is indicated by no change in the threshold hum as the loop is lowered to the ground. If when attempting to set the DISC control for ground rejection, it is not possible to achieve little change in hum as the loop is lowered, turn the Signal Balance control slightly counterclockwise (toward Bad Ground) and try again. If it seems easy to achieve ground rejection, turn the Signal Balance control slightly clockwise and try again. By finding the furthest clockwise position which allows ground rejection, optimum detection depth will be achieved. As the Signal Balance control is turned clockwise, the instrument will become more temperamental (sensitive to both electrical and ground interference). A slightly counterclockwise Signal Balance setting may be required for smooth running performance.

Trouble Shooting

When trouble occurs with the use of a metal detector, often a person can avoid unnecessary inconvenience by reviewing the following tips.

1. False Signals or Instability can often be caused by situations outside of the detector. For example electrical interference from power lines, or other high power transmitting devices. Often these devices can be identified, sometimes they can not.

A. Try reducing the Signal Balance control slightly counterclockwise, and resting the ground rejection using the GEB control.

B. Persistent false signals may require that you try searching a different area, at least several miles away. If you really want to search a high interference area, try different times of the day or week. Often such interference is only present at scheduled times.

C. If not area related, start checking the components of the detector. The battery pack should be removed from the instrument and the contacts inside the "C" cell battery holder should be scratched clean of any corrosion buildup, and the springs should be stretched a little to assure a firm contact. The contacts on the outside of the battery holder should also be scratched clean of any corrosion. The battery contacts inside the instrument battery compartment should be pulled slightly outward toward the battery door so that they make a firm contact with the battery. The instrument control box should be checked with a different loop, either an accessory, or a friend's loop off a similar model. Your Dealer may also be able to assist you in checking the instrument. Loop problems are most often due to damaged cable, from snags on brush or blackberry vines, or simple cable wear. Inspect the cable for any visible signs of damage.

2. Moisture and Humidity, when extreme, can cause problems with all electrical circuits. Most electronics are only guaranteed to operate in up to 75% humidity, which is minimal humidity in some areas. Although the electrical circuitry of your instrument has been sealed with a plastic coating, wetness can still cause failure, particularly when the dampness is combined with salt, as occurs in many beach environments.

A. Damp Environment Use should always be followed by placing the detector in a warm dry place to dry out when not in use. Remove the batteries and leave the battery door open.

Trouble Shooting, Continued

B. Dampness Failure can often be cured simply by drying the instrument out in the above manner. Dampness failure can cause varied symptoms, everything from complete non-responsiveness to instability or false-targeting.

3. Meter Indications can be affected by static electricity. This static can get on the meter face and housing and cause improper meter indications, inaccuracy, and even total lock-up of the meter needle. Such static electricity usually comes from household or automobile carpet, or clothing. When passing your finger past the meter needle causes significant meter movement, static electricity is the problem.

A. Meter Failure should be remedied by discharging any electrical field built up in the meter housing and meter face cover. Anti-static clothes dryer sheets work well for this purpose, and can be purchased inexpensively from the grocery store. Computer stores have an antistatic spray which also works well. With the clothes dryer sheets simply wipe the black meter housing and meter face cover thoroughly. Use several of the individual sheets. With the antistatic spray, spray the meter housing and face cover, wipe dry with a cotton cloth.

B. Once Static is Removed the meter should return to normal. Removing meter static electricity may be necessary from time to time.

4. Repairs in the unlikely event your instrument requires servicing should be referred to a trained professional at a Authorized White's Service Center. Today's models require specialized equipment and training to service properly. All White's Authorized Service Centers have years of experience and their work is guaranteed by the factory.

5. The Location of the White's Authorized Service Center for your area is enclosed in the Accessories catalog. If misplaced, telephone toll-free 1-800-547-6911 for their name and address. Please send the complete unit with an explanation of the trouble.

Caring For Your Instrument

Precautions:

1. Water can damage your instrument. The loop is waterproof and submersible, however the loop-to-control box connector and the control box itself are not waterproof. Light rain or drizzle will not cause a problem. However, the instrument control box must be protected from heavy rain or submersion in water.

A. The loop can be cleaned with a mild soap and water. A damp cloth can be used to wipe clean the control box. The control box can be polished with automotive or furniture wax. Use only cotton cloth to clean and wax. The instrument should be cleaned after heavy use in or around a saltwater beach. Salt is very corrosive. (The warranty does not cover cosmetic imperfections due to wear, or exposure to sun and salt.)

B. When searching with the loop in the water or wading, be careful. The rod will fill with water, and if lifted above the height of the control box, will run into the rod on top of the control box. Although sealed, some seepage can occur into and on top of the circuitry, causing malfunction. Again, drying the detector in a warm area with battery removed and compartment open will most often cure any malfunction. If for any reason the control box is dunked in saltwater, flush the entire instrument with fresh water immediately prior to letting the detector dry out.

2. Loop Covers, a protective plastic shield for the loop bottom, are highly advised accessories when searching sand or rocky terrain on a regular basis. They are available from Dealers and have no effect on detection depth. Loop covers should be removed periodically to remove any sand which can affect detector performance.

3. Heat and Cold can have an adverse effect on your detector. When not searching, rest your detector in the shade. When left in a car on a hot day, cover it to protect it from the direct sun. Extreme sub-zero temperatures can also cause problems. Store your detector indoors in a heated area during the winter months, with the batteries removed from the instrument and from the battery holder.

4. Common Sense should be used. Avoid impacts, stacking heavy objects on top, and unnecessary roughhousing. When not in use, the detector should be treated like any other sophisticated electronic device.

Owner Information

Serial Number: _____ (From inside battery compartment door)

Purchase Date: _____ (Date on the sales Receipt or invoice)

Dealer Name: _____

Dealer's Address: _____

Telephone Number: _____

Payment Method: _____

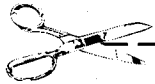
Personal Markings: _____

Warranty Information

Should you for any reason sell your metal detector prior to the warranty described on the following page expiring, the remaining warranty is transferable. This transfer is authorized by calling toll free 1-800-547-6911, and getting an authorization number.

Fill out the following information, including the authorization number obtained from the toll free number, seal it in a stamped envelope, and send it to White's Electronics, 1011 Pleasant Valley Road, Sweet Home, Oregon 97386. The remaining warranty will then be available to the new owner.

The warranty statement on the following page applies to both the original owner as well as the second owner.



Original Owner:

Name: _____

Address which appeared on original warranty card: _____

Instrument Serial Number: _____

Date Code: _____

New Owner:

Name: _____

Address: _____

Comments: _____

Authorization Code: _____

White's Electronics, Inc.

Limited Warranty

If within two years (24 months) from the original date of purchase, your White's detector fails due to defects in either material or workmanship, White's will repair or replace at its option, all necessary parts without charge for parts or labor.

Simply return the complete detector to the Dealer where you purchased it, or to your nearest Authorized Service Center. The unit must be accompanied by a detailed explanation of the symptoms of the failure. You must provide proof of date-of-purchase before the unit is serviced.

Items excluded from the warranty are non-rechargeable batteries, accessories that are not standard equipment, shipping / handling costs outside the continental USA, and shipping / handling costs inside the continental USA 90 days after purchase.

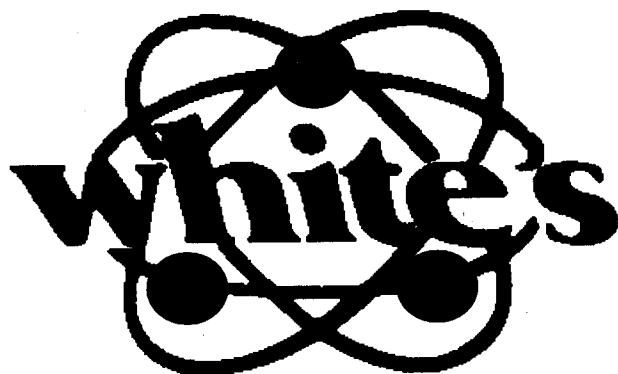
The warranty is not registered unless the Warranty Registration Card is filled out and returned to the factory address soon after original purchase for the purpose of recording this information.

The warranty does not cover damage caused by accident, misuse, neglect, alterations, modifications, unauthorized service, or prolonged exposure to corrosive compounds, including salt.

Duration of any implied warranty (e.g., merchantability and fitness for a particular purpose) shall not be longer than the stated warranty. Neither the manufacturer or the retailer shall be liable for any incidental or consequential damages. Some states however, do not allow the limitation on the length of implied warranties, or the exclusion of incidental or consequential damages. Therefore, the above limitations may not apply to you.

In addition, the stated warranty gives you specific legal rights, and you may have other rights which vary from state-to-state.

The foregoing is the only warranty provided by White's as the manufacturer of your metal detector. Any "extended warranty" period beyond two years, which may be provided by a Dealer or other third party on your detector, may be without White's authority involvement and consent, and might not be honored by White's.



**White's Electronics, Inc.
1011 Pleasant Valley Road
Sweet Home, OR. 97386 USA**

Distribution: 1-800-547-6911

Factory: 1-541-367-6121

FAX: 1-541-367-2968

E-Mail: whites@halcyon.com