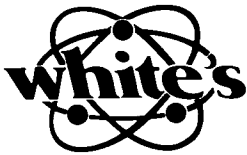


OPERATOR'S MANUAL


white's
2500/D 

COINMASTER® Metal Detector

Manufactured by WHITE'S ELECTRONICS, Sweet Home, OR USA



ATTENTION:

To use your instrument under average conditions, set each of the controls to their  position.

If you need to fine tune the instrument to operate in other than average conditions, please refer to the operator's manual for more detailed information.

**A Message from
Mr. Kenneth White, Sr.
President, White's Electronics**

Congratulations! You are now the proud owner of one of the world's finest detectors. You'll enjoy the many relaxing hours you'll spend with your new detector.

Ahead of you lie exciting experiences you'll never forget. For years to come you'll have yarns to spin about the places you'll visit, the people you'll meet, the history you'll learn, and the treasures and relics you'll uncover. We envy your journey and wish you every success.

Before we tell you how to assemble and operate your instrument, however, there are two important points to leave you with:

1. Your new detector is precision-made and has been carefully tested at our factory. Properly cared for, it will last for years and years. Treat it like a good friend and it should never let you down.
2. Any piece of fine equipment is only as good as the person operating it. Right now your detector is "smarter" than you, so you've got some catching up to do. Become very familiar with your instrument. Practice as much as you can. Soon it will become a part of you.

You and your metal detector will make an outstanding team. We've known many "shooters" who could follow in the tracks of others and find buried coins and rings the others had missed. You've got the equipment to out-shoot most anyone. Now all you need is the practice.

Good Hunting,

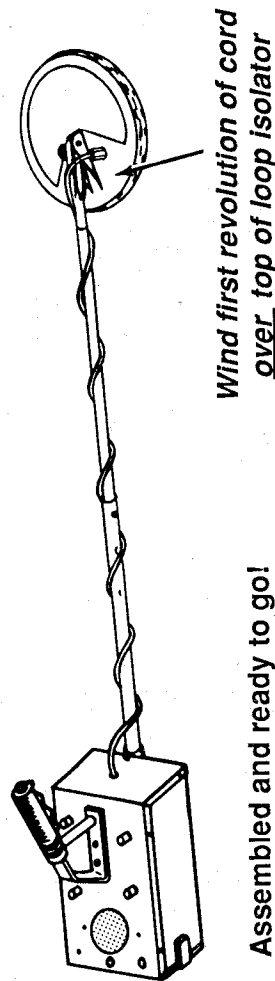
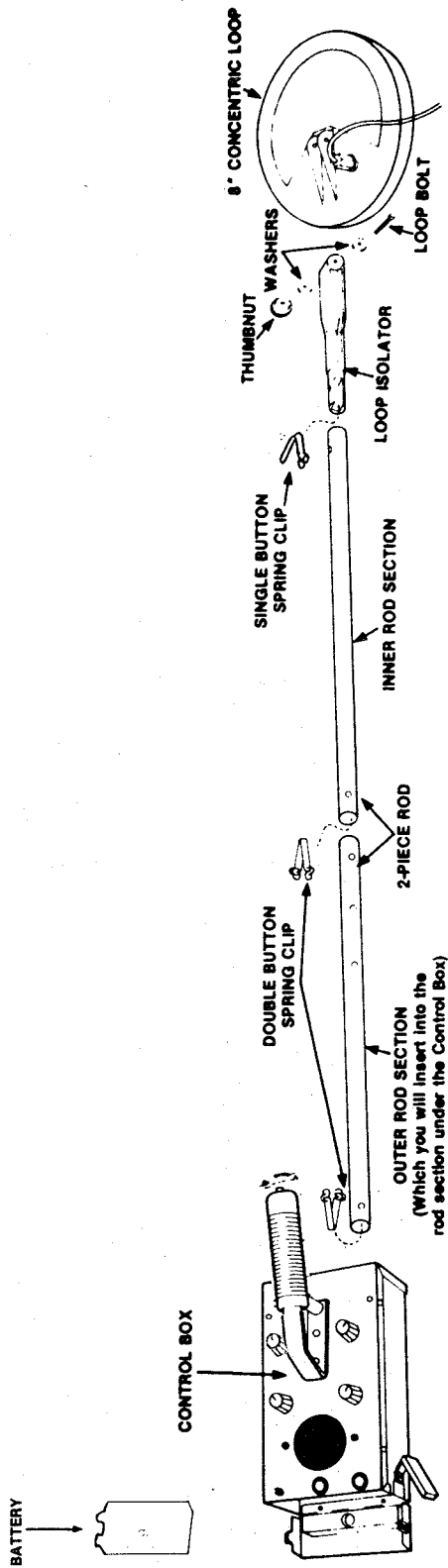
A handwritten signature in black ink that reads "Kenneth White". The script is fluid and cursive, with the first letters of "Kenneth" and "White" being capitalized and prominent.

Kenneth White, Sr.


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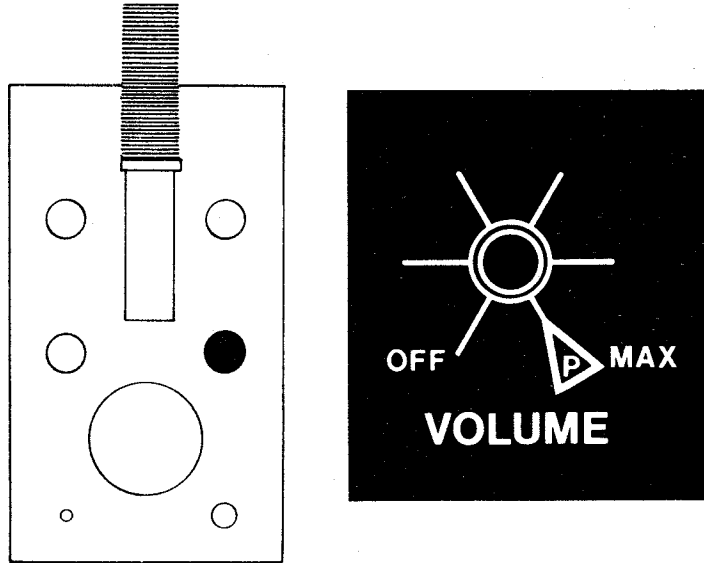
PARTS IDENTIFICATION AND ASSEMBLY



SIMPLIFIED INSTRUCTIONS

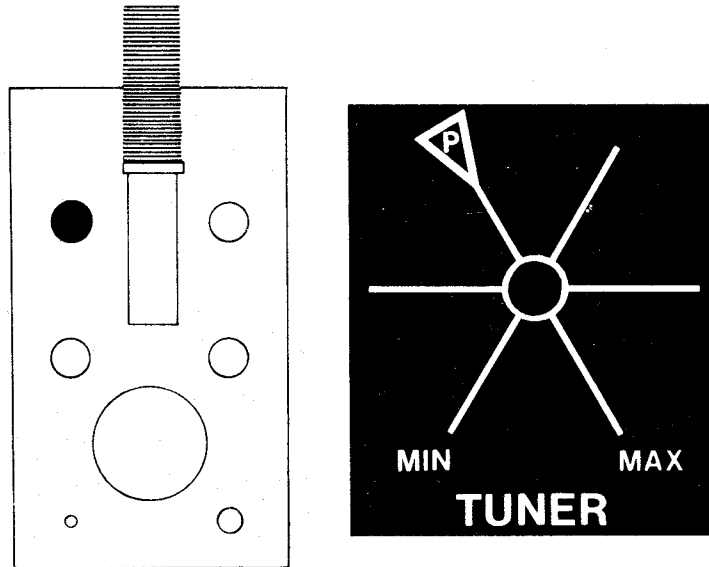
1. Assemble instrument as shown under PARTS IDENTIFICATION AND ASSEMBLY.
2. Open battery compartment door and connect snap on battery lead to the battery, and close battery compartment door.
3. Set all controls to their PRESET  position.
4. Hold loop approximately one inch from the ground, squeeze and release the pushbutton on the handle.
5. Lower the loop to the ground and search by sweeping the loop from side to side in smooth even passes.
6. If the loop is lifted from the ground or tilted, the instrument will produce a false tone so keep the loop even and as close to the ground as possible during sweeping.
7. If this loop distance from the ground is causing problems, raise the loop slightly higher than one inch above the ground, and again squeeze and release the pushbutton. Lower the loop to the ground and search.
8. The instrument will be silent until a target is detected. Good targets produce a good solid tone. Bad targets produce either no sound or a short broken tone.
9. "X" loop over target to pinpoint. The loudest tone indicates target center.
10. Read the following instructions for a more detailed explanation of the instruments' controls.


EXPLANATION OF FEATURES: POWER/VOLUME



1. The volume control turns the instrument ON/OFF and selects the maximum level of the audio tone, (speaker sound).
2. If the instrument doesn't turn on, check to see that the battery is connected. If it still will not turn on, replace battery.
3. If the VOLUME control is set lower than the tuner control, targets will not be heard.

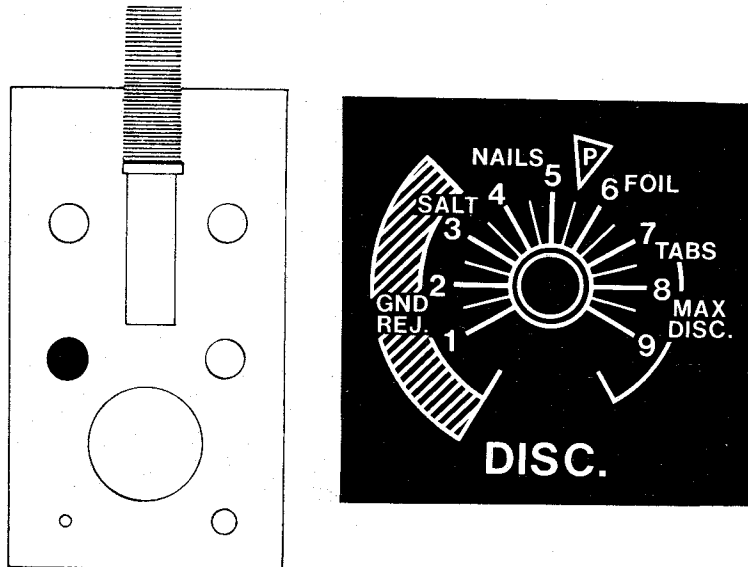
EXPLANATION OF FEATURES: TUNER



1. The TUNER sets the detector's THRESHOLD.
2. The THRESHOLD is indicated by an audio tone that is barely heard. It represents the detector's maximum operating sensitivity.
3. To set the THRESHOLD:
 - a) Set all controls to .
 - b) Hold the detector so that its loop is in the air, straight out in front of you, waist high.
 - c) Press and hold the PUSH BUTTON and turn the TUNER to the right until the tone is barely heard. Release the PUSH BUTTON.

The THRESHOLD needs to be reset whenever any of the other controls are adjusted. To reset the THRESHOLD, squeeze and release the push button while holding the loop approximately one inch off the ground if DISC control is set at or higher than PRESET symbol. If the DISC control is tuned to provide extended ground balance as described on pages 7 and 8 of this manual, squeeze and release the push button while holding the loop at waist level, then lower the loop to the ground and search.

EXPLANATION OF FEATURES: DISC



1. The DISC (Discrimination) control helps to distinguish between desirable and undesirable targets. The user sets the discrimination point with the knob slightly below the desired targets. The audio response of the targets ABOVE the DISC set point produce louder tones. Targets below the set point make the tone go quiet, fade, or produce a short broken tone.
 - a) Desirable targets may include such things as coins, rings, gold, etc.
 - b) Undesirable targets may include such things as pop tops, pull tabs, nails, etc.
2. Discrimination should be used only as necessary to avoid passing over desirable targets.

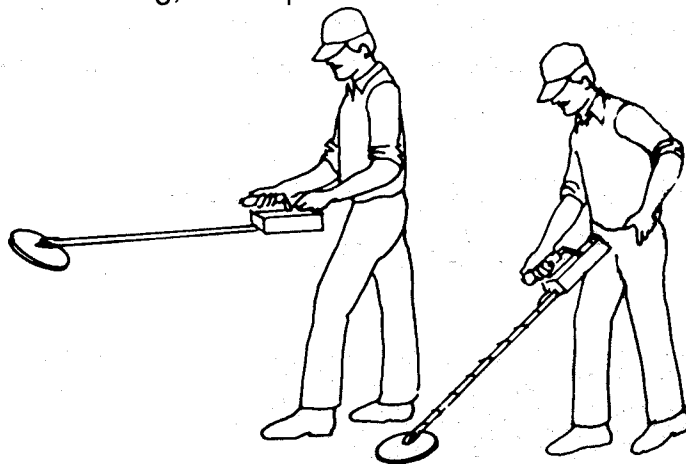
EXAMPLE: When the DISC control is set to reject pull tabs or screw caps, the U.S. nickel, some thin rings and other desirable items may also be rejected.
3. Increasing the levels of discrimination reduces depth capabilities.

NOTE: Test the 2500/D using a variety of desirable and undesirable targets, placed on top of the ground, at different DISC control settings before using the instrument in the field.

EXPLANATION OF FEATURES: TR/DISCRIMINATE

The 2500/D is a TR/DISCRIMINATE mode of operation. TR/DISCRIMINATE has two functions:

1. It will **DISTINGUISH BETWEEN DESIRABLE AND UNDESIRABLE** targets, but **WILL NOT NEUTRALIZE** the effect of ground mineralization at the same time.
 - a) It is excellent for coin hunting, relic hunting, and beachcombing.
 - b) The DISC control is adjusted to distinguish between desirable and undesirable targets.
 - c) To tune the detector in this mode, proceed as follows:
 - 1) Tune to **THRESHOLD** as described on page 5.
 - 2) Lower the loop to approximately 1" above the ground.
 - 3) Press and release the **PUSH BUTTON** to re-set **THRESHOLD**.
 - d) Search with the loop level to the ground and as close to the ground as possible.
NOTE: If the loop is tilted or lifted, the tone may change due to variations of mineralization.
 - e) When searching, the loop does not have to be in motion to respond to metal.



2. TR/DISCRIMINATE can be tuned to provide extended Ground Balance for extreme conditions. These include: salt water beaches and heavily mineralized ground that is common when prospecting for natural metals.
 - a) The DISC (Discrimination) control can be used to neutralize the effects of ground mineralization. This Ground Balances the detector and produces a mode that responds to all types of metals.

TR/DISCRIMINATE CONTINUED....

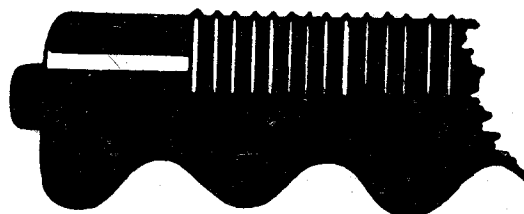
3. To use the detector for the above conditions, set the detector's THRESHOLD (see page 5). Set the DISC control to the middle of the GND REJ. area.
 - a) Lower the loop to the ground. If the tone does not change, the unit is Ground Balanced.
 - b) If the threshold tone changes, raise the loop waist high and turn the DISC control SLIGHTLY RIGHT IF THE TONE INCREASED or SLIGHTLY LEFT IF THE TONE DECREASED.
 - c) Press and release the PUSH BUTTON. Lower the loop back down to the ground and note any change in tone.
 - d) Adjust the DISC control as explained in (b) until there is no change in the tone between air and ground.
 - e) If you have any trouble adjusting the DISC control to a constant threshold, you may be over some metal. Move to another spot and repeat the above steps.

NOTE: Press and release the PUSH BUTTON after each adjustment to the DISC control.

FOR YOUR INFORMATION:

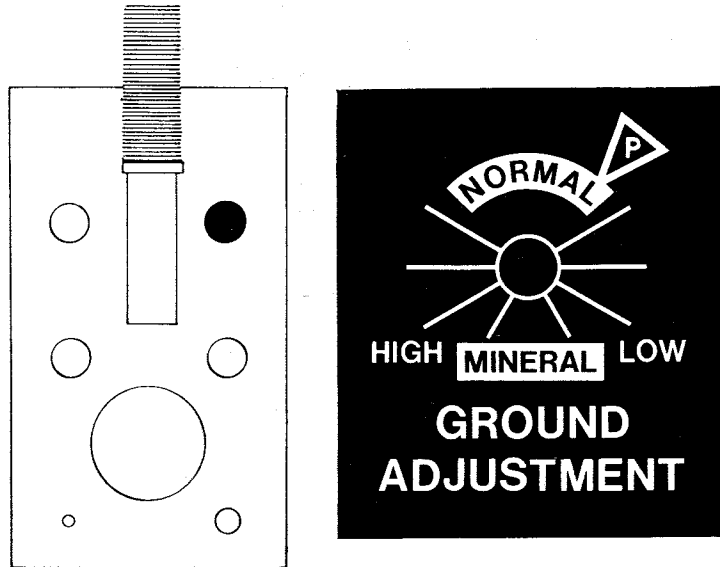
Mineralization is the ferric oxide (iron) or magnetic content of the soil. If it is not neutralized with the DISC control, the detector will react to it and this mineralization may "hide" metal objects from the detector.

EXPLANATION OF FEATURES: PUSH BUTTON



1. The PUSH BUTTON retunes the instrument to threshold.
 - a) To regain threshold, press and release the PUSH BUTTON. THIS MUST BE DONE AFTER ANY CONTROL HAS BEEN ADJUSTED.

EXPLANATION OF FEATURES: GROUND ADJUSTMENT

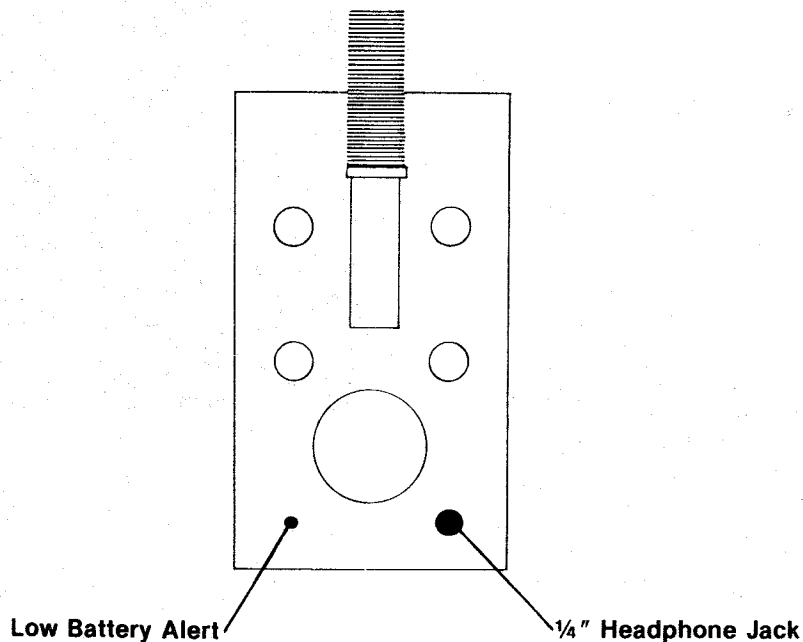


The GROUND ADJUSTMENT controls the detector's sensitivity to ground mineralization.

1. In mineralized ground, decrease the GROUND ADJUSTMENT (turn the control counter-clockwise). In ground with very little mineralization, increase the GROUND ADJUSTMENT (turn the control clockwise.)
 - a) As the GROUND ADJUSTMENT is increased, the detector becomes more sensitive to metals and ground mineralization.
 - b) The GROUND ADJUSTMENT should remain at the furthest position clockwise which will produce smooth stable operation.

EXPLANATION OF FEATURES: LOW BATTERY ALERT

The LOW BATTERY ALERT light emits a soft, constant glow when the detector is ON. When batteries need replacing, the light will glow noticeably stronger and brighter.

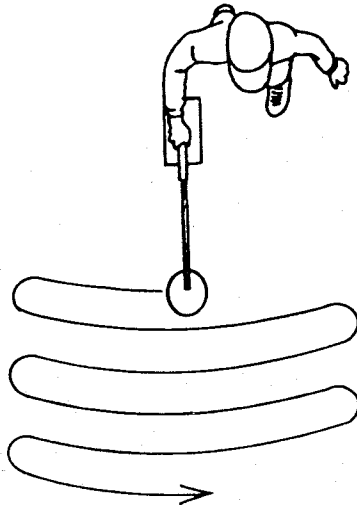


EXPLANATION OF FEATURES 1/4" HEADPHONE JACK

Allows the user to listen to the audio signal on mono headphones.

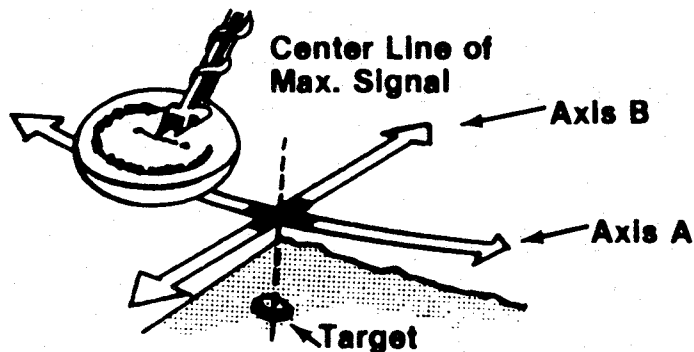
- a) Disconnects the speaker output.
- b) Reduces battery drain.
- c) Eliminates background noise like automobile traffic, surf, etc.

SEARCH METHODS



1. Always keep the loop flat and parallel to the ground. When raised, the depth penetration is decreased.
2. Swing the loop in front while searching. Each swing may cover an area from 4-6 feet in width.
3. The loop should be passed along the ground in smooth, even swings. It does not have to be swung quickly.
4. When a target is detected, sweep it from several directions, noting its Audio characteristics.

PINPOINTING



SEARCHING

WHERE TO SEARCH

Start with your own yard. Valuables can be found anywhere people have congregated, gathered, lived, sat, walked, played, camped, picniced, traveled, or fought. The following list of locations have produced a great deal of coins, rings, relics, and treasure the past:

- | | |
|---------------------------------------|-----------------------------|
| *Amusement Parks | *Carnivals |
| *Circus Grounds | *Fairgrounds |
| *Racetracks | *Rodeo Grounds |
| *Parks | *Playgrounds |
| *Schools | *Ghost Towns |
| *Trading Posts | *Stage Stops |
| *Hitching Posts | *Boardwalk Areas |
| *Clotheslines | *Trails |
| *Sidewalks | *Parking Strips |
| *Around Old Trees | *Roadside Point of Interest |
| *Old Homesteads | *Storm Cellars |
| *Basements | *Beaches |
| *Swimming Holes | *Old River Crossings |
| *Bridges | *Past Disaster Areas |
| *Historical Locations | *Cabins |
| *Old Buildings | *Club Houses |
| *Forts and Old Military Installations | |

HOW TO SEARCH

You must have permission to search private property from the owner or person in charge of managing the property. In most cases, you can locate the owner through City Hall or the county seat. If the area is city property, contact the Parks and Recreation Department for a permit and any restrictions. If it is a state or federal park, contact the superintendent or groundskeeper. In most cases permission to search is not a problem, given a few restrictions.

DIGGING

Practice pinpointing and digging in your own yard before searching well manicured lawns. Try pinpointing a coin on top of the ground, then bury it and practice pinpointing.

Always fill in the holes you dig. Cut a plus or horseshoe shape about two square inches maximum, which can be easily replaced once the target is recovered. Many digging tools are available. Contact your dealer.

SEARCHING continued.....

Always remove all items you recover, and never leave a mess. Holes are both unsightly and dangerous.

We strongly urge you to follow these steps, which will preserve the environment and also the rights of detector operators with as few restrictions as possible.

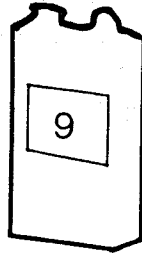
RESPECT

Respect the right of property owner, as well as laws, ordinances, or regulations about searching publicly owned sites. Public officials and private property owners will be more likely to allow continued searching if you do no environmental damage. Consider the scar you may leave before you start digging. This will vary from one part of the country to another depending on soil and climatic conditions. Always keep in mind that other detector operators may be judged by your example.

BATTERY

The 2500/D uses a 9 volt battery. To replace the battery, proceed as follows:

- 1) Open the battery compartment door at the rear of the control box.
- 2) Remove the battery from the clip. Carefully disconnect the terminal lead and replace the battery.
- 3) Reconnect the terminal lead and replace the battery in the clip.
- 4) Close and latch the battery compartment door.
- 5) The standard battery should last between 10-12 hours under normal conditions.



CAUTIONS ABOUT THE BATTERY

1. Do not dispose of batteries in a fire.
2. Protect the battery from being shorted. Burns may result and the battery may be damaged.
3. Non-rechargeable batteries may explode if they are recharged.
4. Store batteries in a cool, dry place.

PROPER CARE OF YOUR DETECTOR

The following are precautions you should take to protect your instrument from harm, ensure its long life, and avoid nullifying the warranty.

CLEANING: The loop and rod or probe are waterproof. They can be cleaned with fresh water and a mild cleanser. After cleaning, however, dry the instrument thoroughly. **CAUTION:** The instrument case is not waterproof, and water, if allowed to enter it, will damage electronic components.

WEATHER CONDITIONS: Protect your detector from excessively cold weather. Freezing can damage the electronic components, the case and/or the batteries. Excessive heat can also damage the instrument. Never leave it in the sun. If it's left in a car on a hot day, cover it to protect it from the direct rays of the sun, and then leave the windows slightly open to permit ventilation. Protect your detector if you operate it in the rain, as water may get into the instrument case.

SALT WATER: Salt water is very corrosive! Immediately after your detector has been exposed to salt water, rinse it thoroughly with fresh water, being careful not to allow water to enter the instrument case. Then wipe it with a cloth dampened with fresh water and dry it thoroughly.

ADDITIONAL PRECAUTIONS:

- a. Avoid dropping your detector.
- b. Do not use any lubricants on any part of your metal detector.
- c. Avoid sharp jars to the loop.
- d. Do not allow batteries to corrode inside the instrument.
- e. Do not alter or modify your instrument during its warranty period. Alterations will void the warranty.

A NATIONAL SERVICE PROGRAM

****THE SERIAL NUMBER IS ON THE SILVER TAG INSIDE THE BATTERY COMPARTMENT****

****THE CODE NUMBER IS ON THE WHITE TAG****

White's Electronics has always been concerned with the absolute quality of its mineral/metal detectors. Service after-the-sale is also of equal importance. In an effort to further the quality of service to our customers, White's reorganized its warranty service program significantly. There are now four factory authorized National Warranty Service Centers located regionally around the continental U.S. These Service Centers are identical to the Factory Service Center in Sweet Home, Oregon. In order to ensure you will get the finest service possible for your detector, the technicians in each National Warranty Service Center are Factory trained and given on-going training for new products and improved service techniques. They can also repair your out-of-warranty instruments with efficiency and timeliness.

Simply return the detector to the dealer where you purchased the unit. The unit must be accompanied by a completed service coupon provided by your dealer. You must provide proof-of-date of purchase before the unit is shipped.

If the unit fails after the first 90-day period, the customer is responsible for shipping costs. Please also include \$5.00 for return postage, handling and insurance.

Any repair work preformed by other than a White's National Warranty Service Center will automatically void the warranty.

If a problem occurs with your metal detector, first contact the White's dealer who sold it to you. In many cases, your dealer can solve the problem. If not, the dealer will have your detector repaired under the Warranty Program. All of White's National Warranty Service Centers, located throughout the country, are owned and operated by factory-trained technicians. These Centers are fully equipped and the personnel fully trained with on-going programs at White's in order to service your mineral/metal detector. With this program, the average repair time has actually been reduced from weeks to days!

**TO LEARN THE NAME AND LOCATION OF YOUR NEAREST WHITE'S DEALER CALL:
TOLL FREE 1/800/547-6911**

GLOSSARY OF TERMS

ABOVE: Clockwise of.

APPROXIMATELY: Near to, close to; "about".

AUDIO TONE: Volume or tone produced by a speaker or other sound emitting device.

BAD TARGETS: Objects not desired.

BARELY: Scarcely, hardly.

CONTROL: Dial or adjustment knob.

DESIRABLE: Wanted.

DETECT: Response or indication.

DIAL: Adjustment knob or control.

DISC: (*Discriminate*) Adjustment dial or control that can be set to accept or reject signals or targets of different characteristics.

DISTINGUISH: (*Discern*) Tell the difference.

EFFECT: (*Influence*) Result or consequence.

EXTEND: To spread or stretch forth. To cause to be of greater area.

GOOD TARGET: A desirable or wanted target.

GROUND: Dirt, sand, gravel or the surface of the earth.

GROUND BALANCE: Setting of a detector to ignore the effects of ground mineralization.

HEAR: To perceive or apprehend by ear, to hear.

INDICATE: Advise, proclaim, or point out.

LIFTED: Raised.

GLOSSARY OF TERMS CONTINUED.....

LOOP: Round plastic housing which contains the instruments transmit and receive coils.


MAXIMUM: Being an upper most limit. Example: Minimum/Maximum.

MINERALIZATION: Ferric oxide (iron) or magnetic content of the soil.

NEUTRALIZE: To counteract the effect of, balance.

OPERATE: Function or use of a metal detector.

OVERLAP: To extend over, cover; a part of twice.

 **PRESET:** Settings suitable for most conditions.

PUSH BUTTON: Round button on the very end of the handle grip.

RESPOND: React to. (See Audio Tone.)

SEARCH: Sweeping a metal detectors' loop, looking for metals.

SENSITIVITY: The degree to which a metal detector responds.

SQUEEZE: Depress or push in.

SWEEP: Passing the loop from side-to-side.

SWEPT: See Sweep.

TARGET: Any object which causes a metal detector to respond.

THRESHOLD: Slight hum or tone that can barely be heard.

TONE: See AUDIO TONE or THRESHOLD.

WAIST HIGH: Distance from the ground to a person hip or waist.

WHITE'S ELECTRONICS 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, Whites Electronics will repair or replace, at its option, all necessary parts without charge for parts or labor.

Simply return the detector to the dealer where you purchased it. The unit must be accompanied by a completed service coupon provided by your dealer. You must provide proof of date of purchase before the unit is shipped.

If the unit has failed within the first 90 days of purchase, shipping will be prepaid.

If the unit fails after the first 90-day period, the customer is responsible for shipping costs. Please also include \$5.00 for return postage, handling and insurance.

Items excluded from this warranty are non-rechargeable batteries, headphones and other accessories.

The warranty is not transferable. Nor is it valid unless the Warranty Registration Card is returned to the factory address below within ten (10) days of original purchase for the purpose of recording that date, which is the actual commencement date of the warranty.

The warranty does not cover damage caused by accident, misuse, neglect, alterations, modifications, or unauthorized service.

Duration of any implied warranties (e.g., merchantability and fitness for a particular purpose) shall not be longer than the stated warranty.

Neither the manufacture nor the retailer shall be liable for any incidental or consequential damages resulting from defects or failures to perform.

Some states, however, do not allow limitations on the length of implied warranties, or the exclusion of incidental or consequential damages. Therefore, the above limitations and exclusions may not apply to you.

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

White's Electronics, Inc.
1011 Pleasant Valley Rd.
Sweet Home, OR 97386

TREASURE HUNTER'S CODE OF ETHICS

1. Respect the rights and property of others.
2. Observe all laws, whether national, state or local.
3. Aid law enforcement officials whenever possible.
4. Never destroy priceless, historical or archeological treasures.
5. Leave the land and vegetation as it was. Fill in all holes.
6. Remove all trash and litter when you leave.
7. All treasure hunters may be judged by the example you set. Always conduct yourself with courtesy and consideration for others.

WHITE'S ELECTRONICS, INC.

White's Electronics, Inc. 1011 Pleasant Valley Road • Sweet Home, Oregon 97386