

OPERATOR'S MANUAL

LIBERTY I



**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, 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 cursive script that reads "Kenneth White". The signature is written in dark ink and is positioned below the "Good Hunting," text.

Kenneth White, Sr.

INDEX

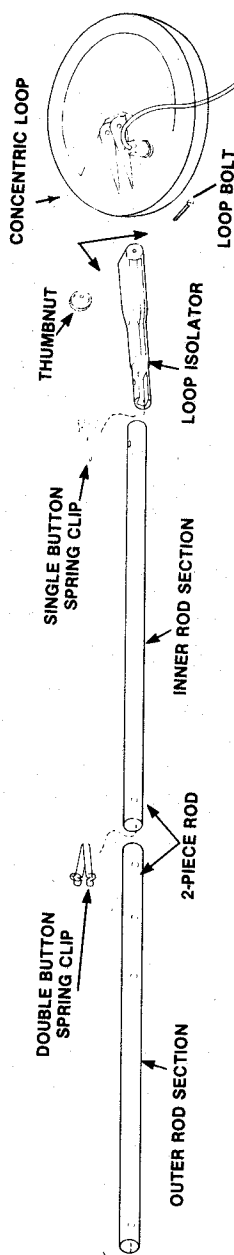
PARTS IDENTIFICATION AND ASSEMBLY	2
EXPLANATION OF CONTROLS	
POWER	3
AUTOMATIC GROUND CANCELLING	3
LOW BATTERY ALERT	3
ON/OFF VARIABLE TUNER	3
HEADPHONE JACK	3
SPEAKER	3
TUNING YOUR DETECTOR	3
SEARCH METHODS	4
TIPS FOR DEVELOPING SKILLS	4-5
PROPER CARE OF YOUR DETECTOR	6-7
SERVICE TIPS	7
WARRANTY	8
A NATIONAL SERVICE PROGRAM	9
CODE OF ETHICS	9-10
SERVICE CENTERS	11

ASSEMBLY INSTRUCTIONS

PARTS IDENTIFICATION

When you unpack your Liberty I, compare all parts with those listed below:

1. Detector loop
2. Control box
3. Loop Bolt, Thumbnut
4. Loop Isolator
5. Lower portion of rod
6. Upper portion of rod
7. Warranty Card



Wind first revolution of cord over loop isolator.

POWER SUPPLY

The Liberty I is powered by one 9-Volt transistor battery (not included). To install battery, open battery door and connect battery to power cables located inside box. Close battery door. **NOTE:** Your battery will last longer when headphones are used.

EXPLANATION OF CONTROLS

AUTOMATIC GROUND CANCELLING: The Liberty I electronically cancels out the effects of mineralized ground. Nothing has to be adjusted by the user. This feature is designed into the detector.

LOW BATTERY ALERT: The Low Battery Alert on the Liberty I will illuminate when the battery has discharged to the point where the unit will not function properly. Replace the battery at this time.

ON/OFF VARIABLE TUNER: Used to attain the point of optimum tuning (referred to as the "threshold tone"). This is the point where the detector operates at its maximum depth range, and is indicated by a slight audio tone. This control also turns the detector ON and OFF.

HEADPHONE JACK: Will accept any set of 1/8 inch mono headphones. Stereo headphones are not recommended.

SPEAKER: Broadcasts the detector's audio tone. It is silent when headphones are used.

TUNING YOUR DETECTOR

Your detector will help you locate buried metal objects. Gold, silver, copper, coins, brass, lead and platinum are all metals.

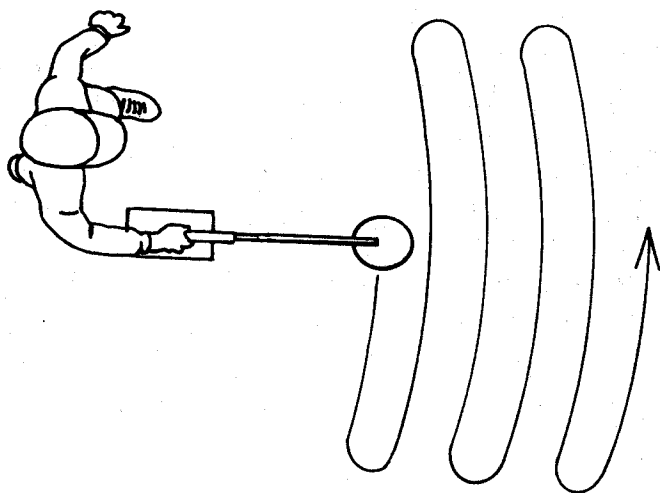
1. Holding the loop ½" to 1" off the ground (hunting position), turn the ON/OFF control clockwise until a slight tone is heard. (Make sure the loop is away from all metals.)
2. Keeping the loop close to and level with the ground, make a single sweep (away from any metal objects). Listen for any increases in the tone. This is the signal of a target.
NOTE: Due to different amounts of iron, some soils may necessitate slight retuning to maintain threshold.
3. With your detector now properly tuned, you are ready to search.

SEARCH METHODS

To locate hidden or buried objects with a properly tuned detector, systematically sweep the loop from side to side across the area you are working. With the six-inch loop, you should take 6-inch steps, moving the loop ahead the same amount after each sweep. For a maximum performance when searching, you should always try to keep the loop at a constant level and as close to the ground as possible. Begin searching.

IMPORTANT: If the loop is tilted, or if you lift the loop up, the tone will get louder. To help eliminate false signals caused by tilting or lifting, try to keep the loop parallel while you sweep.

THE MORE THE TONE CHANGES from the slightest up or down movement of the loop, the more mineralized is the soil.

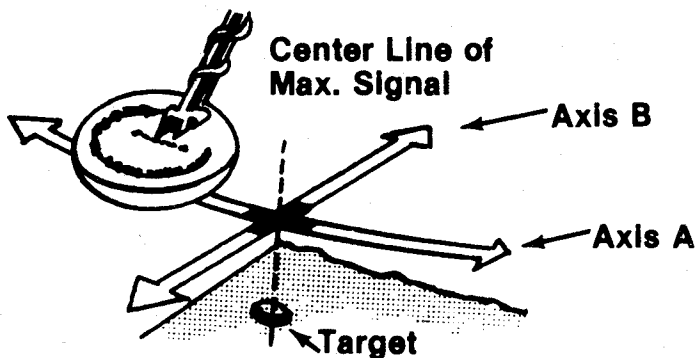


TIPS FOR DEVELOPING YOUR SKILLS

1. "How deep will it go?" The depth is determined by five main factors.
 - a. The **SIZE** of the object.
 - b. The **SIZE** of the loop.
 - c. The **LENGTH OF TIME** the object has been buried.
 - d. The **SKILL** of the operator.
 - e. The **AMOUNT OF GROUND MINERALIZATION**.

The longer an object has been buried, the better you will be able to detect it. A chemical reaction called a "HALO" effect may cause your detector to register a much larger increase in volume than might otherwise be expected for a small coin. If the effect is strong enough, your detector may continue to register even after you have dug up the coin.

2. "What will the detector locate?" Silver, lead, copper, bottle caps, tin foil, pull tabs, cartridge cases, rings, brass and tin cans are just a few of the conductive objects which can be detected. Your detector will not locate sticks, rags, bones, paper, wood or other non-metallic objects.
3. LARGE TARGET signals are produced by objects possessing a large surface area and may consist of an alloy or plating which causes the detector to respond to the non-ferrous or non-iron portion of the object. Such objects include beer cans, pop cans, and alarm clocks.
4. PINPOINTING a target or object can be accomplished by sweeping a target in one direction and sweeping it at right angles to the original direction as shown. This is called "X"ing the target. It is also helpful to sweep the target at several different angles as you move around it.



5. Always "criss-cross" an area when searching it.
6. After you have dug up a coin, always check the hole again for more.
7. Don't forget to fill in the hole! Public officials and property owners will be more likely to allow continued Treasure Hunting in the area if you do NO environmental damage.
8. When beachcombing, the best place to look for coins is near concession stands.
9. Check the shallow water in swimming areas. Most rings and coins are lost when people enter the water.
10. If you make plans for coins shooting, check the history records of the area.

11. Always carry a plastic bag for your detector in case you get caught in the rain.
12. Never ask permission to treasure hunt over the phone. People tend to visualize you using a pick and shovel, making large holes.
13. Join a local historical society or get acquainted with its member.
14. When coin hunting, search parks, school yards and areas where fairs or carnivals were recently held.
15. Always carry extra batteries with you in case the battery in the instrument gets too low for maximum power.
16. If you want more weight on your loop, for use underwater for example, obtain a small sack and fill it with sand. (Check it with your detector to make sure it doesn't cause a response.) Tie it to the loop isolator.

PROPER CARE OF YOUR DETECTOR

CLEANING: Both the loop and rod are waterproof and can be cleaned with fresh water and a mild soap. After cleaning, dry the instrument thoroughly. Caution! Never raise the wet loop above the level of the instrument case. The instrument case is not waterproof and water may run down the rod into the case, damaging the electronic components.

WEATHER CONDITIONS: Protect your detector from excessively cold weather. Freezing can damage the electronic components, the case and/or the battery. Excessive heat can also damage the instrument. Never leave it in the sun. It's best to lay it in the shade when not in use. 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 instrument if you operate it in the rain, as water may get into the instrument case. (Use a plastic bag.)

SALTWATER: Saltwater is very corrosive! After your detector has been exposed to saltwater, rinse it thoroughly in fresh water being careful not to let the loop rise higher than the level of the instrument case. Then wipe it with a cloth dampened with fresh water and dry it thoroughly.

STORAGE: If you plan to store your instrument for any length of time, unsnap the battery and remove it from the instrument. Whenever your instrument is not in use, turn the ON/OFF Tuner all the way to left until it clicks off.

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 battery to corrode inside the instrument.
- e. Do not alter or modify your instrument during its warranty period. Alterations will void the warranty.

SERVICE TIPS

Here are some service tips that may help if difficulties are encountered:

1. The detector will not operate and the Low Battery Alert L.E.D. is not glowing:
 - a. Check battery connection.
 - b. Replace battery.
 - c. Check control for intermittent operation.
2. Erratic operation:
 - a. Check for loose battery connections.
 - b. Be sure the coil cable is wrapped snugly around the rod and properly connected.
 - c. Check battery condition.
3. The detector "drifts" out of tune:
 - a. Drift may occur as a result of sudden changes in temperature and humidity. Allow stabilization time.
 - b. Steady drift may be caused by component failure. The detector may need servicing.
4. Headphones (Stereo):

Audio may come from only one side of the headphones unless it has a Mono/Stereo switch selected to Mono Mode. The use of stereo headphones is not recommended.

WHITE'S ELECTRONICS' LIMITED WARRANTY

If within two years (24 months) from the original date of purchase your White's detector fails through normal use or due to defects in either material or workmanship, White's 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 to detectors 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 manufacturer nor the retailer shall be liable for any incidental or consequential damages resulting from defects or failures of the instrument 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

A NATIONAL SERVICE PROGRAM

THE SERIAL NUMBER IS ON THE SILVER TAG ON THE INSIDE TOP OF THE INSTRUMENT CASE LOOKING THROUGH 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 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.

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

All of White's National 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!

CODE OF ETHICS

Treasure hunting is the kind of new hobby that fires the imagination and generates its own enthusiasm. It's the most natural thing in the world to want to dig as fast as you can the minute you hear that first loud unmistakably "good" signal. It will be a real thrill to discover there's treasure right beneath your feet!

But wait a minute! We strongly urge you to adopt a code of ethics which will preserve the environment and also the rights of treasure hunters to operate detectors with as few restrictions as possible.

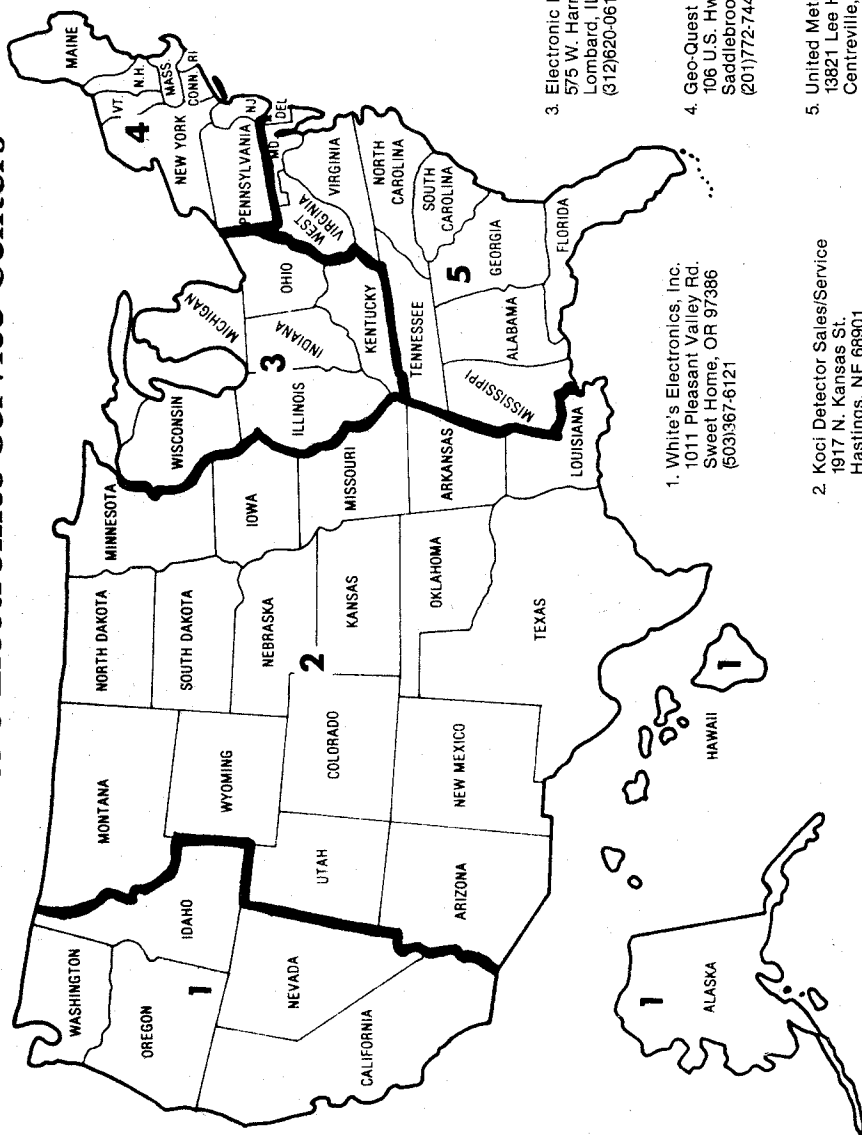
Before you even begin a search, check the law, ordinance or regulations about hunting on publicly owned sites. Abide by the rules. If the area is private property, get written permission from the owner to search it. You may find he will be more eager to give permission if you suggest sharing your finds with him, or if you offer to search for a specific item he has lost.

ABOUT DIGGING: In lawn areas limit the size of the hole to a maximum of two inches in diameter, cutting a plug of sod which can be easily replaced. After you take your finds, be sure to carefully fill the hole. **HOLES ARE BOTH UNSIGHTLY AND DANGEROUS!**

Detectors designed for locating large and deeply buried objects should be used with discretion - never in the lawn area, and with careful judgement in other locations. Consider the scar you may leave, before you start digging. This will vary a lot from one part of the country to another, depending on local soil and climatic conditions. Public officials and private property owners will be much more likely to allow continued treasure hunting if you do no environmental damage. You may even be able to increase your reputation as an ethical hunter by volunteering to carry out and dispose of whatever trash items you find.

Adoption of these attitudes can only enhance the public's opinion of treasure hunters and assure that many areas, both public and private, remain open to you and your new detector.

White's Electronics Service Centers



3. Electronic Exploration
575 W. Harrison Rd.
Lombard, IL 60148
(312)620-0618

4. Geo-Quest
106 U.S. Hwy. 46
Saddlebrook, NJ 07662
(201)772-7443

5. United Metal Detectors
13821 Lee Hwy.
Centerville, VA 22020
(703)631-0202

1. White's Electronics, Inc.
1011 Pleasant Valley Rd.
Sweet Home, OR 97386
(503)367-6121

2. Koci Detector Sales/Service
1917 N. Kansas St.
Hastings, NE 68901
(402)463-4705

