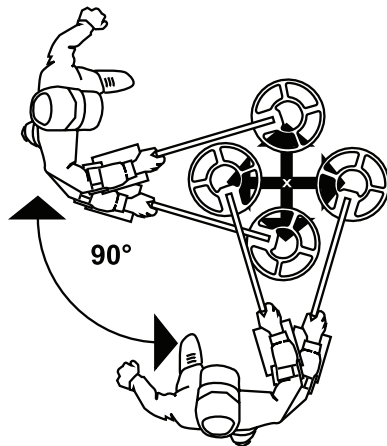
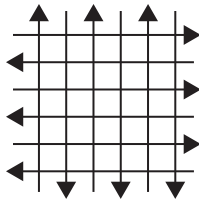


CONSTANT 3-5 FOOT PER SECOND  
OVERLAPPING SWEEP  
WITH THE LOOP LEVEL, 1" ABOVE THE  
GROUND

PINPOINTING  
A TARGET BY  
"X"ING



If you are searching an area that has produced valuables, or has the potential for producing valuables, cover the area at least twice. Search first in one direction and then again at a different angle 90 degrees from the first. Some targets, such as coins on edge, may only respond from one direction.



The sweep speed affects the performance capability of the detector. If you sweep too slowly, the S.A.T. will attempt to tune out a detected target. The result will be a loss in depth. If you sweep too quickly, the detector may not respond to a detected target also resulting in a loss in depth. The optimum sweep speed is three to five feet per second. In other words, if you sweep the loop in a five foot swath in front of you, you should be able to count "one-hundred-and-one."

You may wish to bottom scrub the loop for maximum depth. Scrubbing is not really necessary and may cause false signals over highly mineralized sand/silt. Scrubbing also causes wear on the bottom of the coil and puts added stress on the coil connecting hardware. If you wish to scrub, you should purchase a protective loop cover. Be sure to remove the cover at regular intervals and clean out any sand or water.

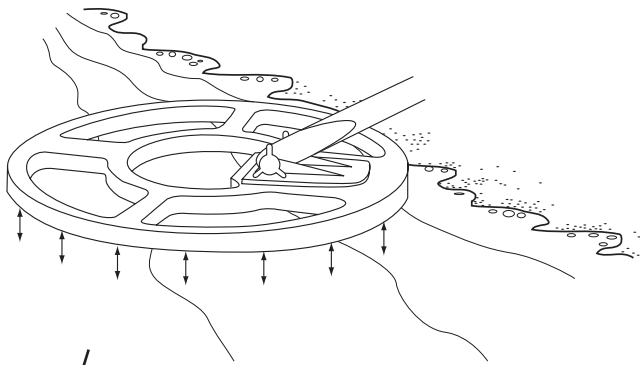
The search coil has a very wide scanning area. When you hear a target, sweep slowly over it until the response is equal as you move the loop back and forth. Pinpoint by sweeping it from two directions, from back-to-back and side-to-side until the response is equal in all directions. If you slow the sweep, you can pinpoint with a good degree of accuracy. The most sensitive area of the loop is in the center.

Shallow targets can be difficult to pinpoint if they overload the coil. Simply raise the loop while "x-ing" the target area. Coins lying flat will usually respond best in the exact center of the loop. Coins on edge, nails and irregularly shaped objects may tend to pinpoint near the outer edge of the loop. If you have trouble locating the target, turn the loop 90 degrees and pinpoint with the edge.

### Searching in Salt Water

Pulse Induction instruments do not need to be adjusted to ignore the effects of wet salt or ground mineralization. When you plunge the loop into salt water, it will take a second or two for the S.A.T. to stabilize the detector. If you lift the loop out of the water, you will hear a brief tone. This is a normal function of the S.A.T. system.

If you are hunting at the surf line, simply lift the loop just above the water as the wave comes in. This will minimize false signals, plus it is easier to sweep the loop in air than in water. If the loop is dunked in salt water, then pulled out and swept on dry land some false signals may be heard. They are caused by the water droplets moving around on the loop case. You can minimize these noises by treating the loop case with Armor All, silicone spray, or spray wax. This makes it easier to shake off the sand and excess water.



HUNTING AT THE  
SURF LINE AND  
HOLDING THE LOOP  
JUST ABOVE THE  
WATER SURFACE

Interpreting changes in the threshold is the key to success using the Surfmaster Dual Field. Some very deep targets could cause a subtle beep in the normal threshold. Identifying these subtle changes can be challenging underwater with noise from your air supply. Practice with known targets to become familiar with the way the threshold changes over such sample targets.

Some threshold changes are caused by dramatic changes in the ground, for example placing the loop in salt water. Obvious changes in conditions are easily recognized and the Surfmaster Dual Field will quickly and automatically reduce the sound back to threshold. However, less obvious changes may result in some conditions. Decomposed iron, for example, may respond. Such signals must be investigated. Fortunately some idea as to the size of a target can be determined by the size of the area that causes the change in threshold. Remember to keep the loop in motion so that the instrument will continue to respond.



# Information

## Proper Care

### Cleaning

The entire Surfmaster Dual Field is waterproof and submersible. It can be cleaned with fresh water and a mild soap. After cleaning, dry the instrument thoroughly.

### 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 or boat 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.

### Saltwater

Saltwater is very corrosive! After your detector has been exposed to saltwater, rinse the loop and rods in fresh water. 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 batteries and remove from the instrument. Whenever your instrument is not in use, turn the ON/OFF **GAIN** Knob all the way to the left until it clicks off.

### Travel

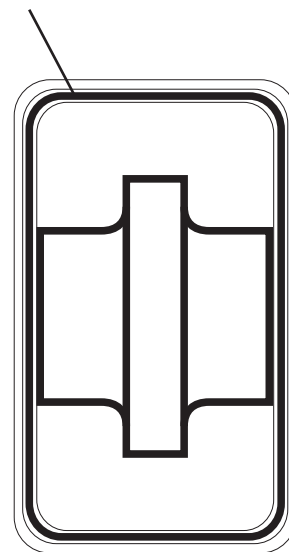
If traveling and expecting large variations in altitude, such as traveling through mountain passes, disengage control box latches to allow equalization of pressure.

### Opening Control Box

When opening the control box, first make sure the instrument is dry. Water, if allowed to contact the circuit board, will damage it.

When opening the control box to replace the batteries, always make sure the "O" ring is free of dirt or sand, and is properly positioned before the case is closed. If this "O" ring shows any signs of wear, replace it before using this instrument in the water. This "O" ring, White's Part Number 527-0040 is a custom shape, and can be ordered from your White's Dealer or Service Center. Failure to maintain the "O" ring properly will result in extensive damage to the instrument, and will not be covered under warranty. If traveling abroad or using this model extensively, ordering additional "O" rings is highly advisable. Professionals typically replace the "O" ring once a year.

"O" RING



### Service

White's reputation has been built on quality products backed by quality service. Our Factory Authorized Service Centers are factory trained and equipped. They offer the same quality service as the factory. Service before and after the sale is the cornerstone of our customer relations.

#### White's Authorized USA Service Centers:

Centerville Electronics  
10063 Wellington Road  
Manassas, Virginia 20110  
Toll Free 1-888-645-0202  
Fax: 1-703-222-8668  
E-Mail: centelec@vwx.com

Electronic Exploration  
575 West Harrison  
Lombard, Illinois 60148  
Toll Free: 1-800-392-3223  
Fax: 1-630-620-1005  
E-Mail: tony@ee-il.com

White's Electronics, Inc.  
1011 Pleasant Valley Road  
Sweet Home, Oregon 97386  
Telephone: 1-541-367-6121  
Fax: 1-541-367-6629  
E-Mail: nbaker@whiteselectronics.com

#### Before shipping detectors for service:

- A.** Contact your Dealer. There may be a quick, simple fix or explanation that will prevent having to send the detector in for service.
- B.** Double check the obvious, such as batteries, and try the detector in another area to be sure there is not interference.
- C.** Be sure to send all necessary parts with your detector, such as search-coil, batteries and holders, as these items can result in symptoms.
- D.** Always include a letter of explanation about your concerns, even if you have talked to the Service Center by telephone.
- E.** Take care in packaging instruments for shipping and always insure your package.

## 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.

This is a transferable manufacturer warranty, which covers the instrument two years from the original purchase date, regardless of the owner.

Items excluded from the warranty are non-rechargeable batteries, accessories that are not standard equipment, shipping / handling costs outside the continental USA, Special Delivery costs (Air Freight, Next Day, 2nd Day, Packaging Services, etc.) and all shipping / handling costs inside the continental USA 90 days after purchase.

White's registers your purchase only if the Sales Registration Card is filled out and returned to the factory address by your dealer, soon after original purchase for the purpose of recording this information, and keeping you up-to-date regarding White's ongoing research & development.

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 Electronics, Inc.

## Warranty Transfer

If for any reason you should sell your Surf Dual Field prior to the date the warranty expires, the remaining warranty is transferable.

Simply fill out the following information, including the Authorization 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 period will then be available to the new owner.

The Warranty Statement applies to both the original owner as well as the second owner.



## WARRANTY TRANSFER

**Original Owner:**

Name: \_\_\_\_\_

Address (Which appears on the original warranty card):  
\_\_\_\_\_  
\_\_\_\_\_

Instrument Serial Number: \_\_\_\_\_

Original Purchase Date: \_\_\_\_\_

**New Owner:**

Name: \_\_\_\_\_

Address: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

## **Owner Information**

**Serial Number:** \_\_\_\_\_ (*inside of battery compartment*)

**Purchase Date:** \_\_\_\_\_ (*The date on the sales receipt*)

**Dealer Name:** \_\_\_\_\_

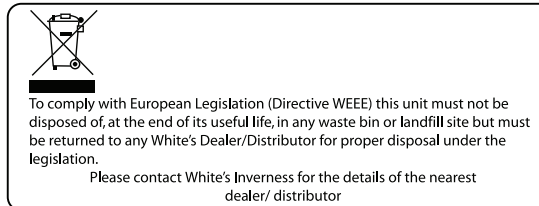
Address: \_\_\_\_\_

Telephone #: \_\_\_\_\_

**Payment method:** \_\_\_\_\_

**Personal markings:** \_\_\_\_\_

\_\_\_\_\_



**WHITE'S ELECTRONICS (UK) Ltd.  
After Sales Service  
LIMITED WARRANTY STATEMENT**

**The serial number which is unique to your unit is on a white label inside the battery compartment.  
Please quote this number on any correspondence regarding your detector.**

White's Electronics has always been concerned with the absolute quality of their mineral/metal detectors. Service after the sales is of extreme importance to us and we always do our utmost to ensure that customers are satisfied with our units. If your unit should require servicing or repair, simply return it to us at the factory in Inverness and we shall carry out the necessary work for you.

**Any work carried out by unauthorized persons will automatically nullify the 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 Electronics (UK) Ltd. will repair or replace at its option, all necessary parts without charge for parts or labor.

Simply return the detector to our factory in Inverness, Scotland, giving details of the faults.

Items excluded from the warranty are non-rechargeable batteries and other accessories.

The warranty is not valid unless the Warranty Registration Card is returned to the factory address within 10 days of the original purchase for the purpose of recording that date, which is the actual commencement date of the warranty.

This warranty does not cover damage to the detector 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.

This warranty does not affect your statutory legal rights.

**White's Electronics (UK) Ltd  
35 Harbour Road ~ Inverness ~ Scotland ~ IV1 1UA  
Telephone: (01463) 223456 Fax: (01463) 224048  
Email: [sales@whelects.demon.co.uk](mailto:sales@whelects.demon.co.uk).  
Web site: [www.whites.co.uk](http://www.whites.co.uk)**

## Warranty Transfer

If for any reason you should sell your White's detector prior to the date the warranty expires, the remaining warranty may be transferable.

Simply fill out the following information, and send it to **White's Electronics, (UK) Ltd., 35 Harbour Road, Inverness, Scotland, IV1 1UA.** White's will then advise you what, if any Warranty is available.

The Warranty Statement must be completed with Serial number and information on previous and new owners.



### WARRANTY TRANSFER

**Original Owner:**

Name: \_\_\_\_\_

Address (as on original warranty card):

\_\_\_\_\_

Serial Number: \_\_\_\_\_

**New Owner:**

Name: \_\_\_\_\_

Address: \_\_\_\_\_

\_\_\_\_\_

Tel: \_\_\_\_\_ Email: \_\_\_\_\_

