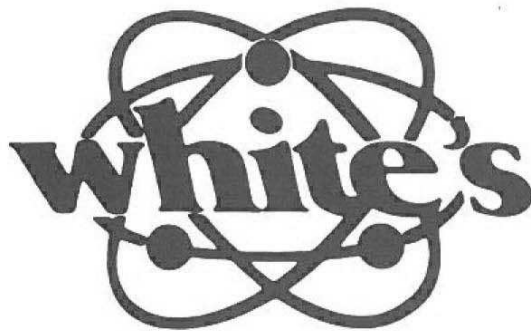


**ASSEMBLY AND OPERATING
INSTRUCTIONS**

**BEACHCOMBER 60 SERIES 2
METAL DETECTOR**



White's Electronics (UK) Ltd.

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

Before you start out, however, read the following instructions carefully. Practise as often as you can. Soon your detector and you will make an almost "unbeatable" team.

ASSEMBLY INSTRUCTIONS

1. Remove your detector from the shipping package. Note that the rod section is in two pieces.
2. Align the two rod ends and insert the lower section into the upper section until it stops.
3. Now, wrap the search head cable around the rod. This is done by simply rotating the lower section two or three complete turns. Do not, however, wrap the head cable too tightly.
4. Next, depress the spring-loaded studs at the end of the lower rod section and push the lower section until the desired pair of matching holes in both sections is lined up. The spring will then automatically force the studs through the holes, locking the two sections together.
5. Finally, adjust the angle of the search head and check the tightness of the head mounting thumbnut. It should be finger-tight. If it is too tight the loop will not adjust to various angles. If it is too loose the loop may not stay in position.
6. At the back of the instrument is a plate which you can press in and slide down. Behind it is the battery pack and the battery compartment. On the reverse of the plate is a label showing the model type and serial number of your metal detector. In any communication, please quote the letters and numbers on this label.

CONTROLS

- A. On/Off Tuner
- B. Ground Balance/Discrimination
- C. Battery Check/Push Button Tuning
- D. Headphone Socket — 1/8" Jack

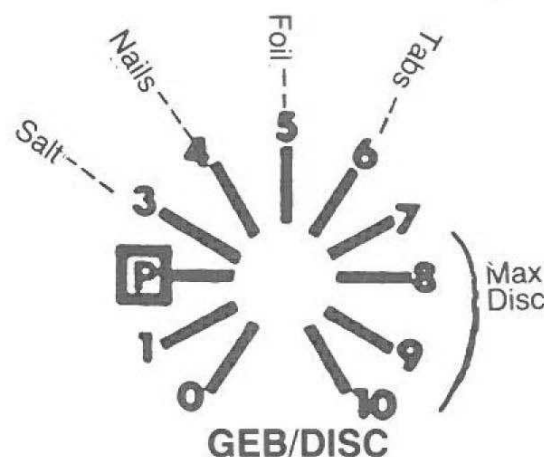
OPERATION OF UNIT

1. Turn unit on.
2. Depress the battery check button on handle — meter needle should move to within battery good range between 40-50. If needle falls below this level new batteries are required.
3. Set tuning threshold by depressing push button and adjusting on-off tuning control to edge of sound.
4. Ground Adjustment.
 - a) Raise the loop about three feet above the ground.
 - b) Set the GEB Disc knob to 'P', depress push button to regain edge of sound.
 - c) Lower loop to ground and listen for tone change.
 - d) If threshold tone increases raise loop back up and turn GEB/Disc slightly clockwise, push and release push button to regain threshold and lower loop to ground. Listen for any change in tone.
 - e) If threshold tone decreases when loop lowered, raise loop, turn GEB/Disc knob slightly anti-clockwise, push and release push button to regain threshold and lower to ground. Listen for any change in tone.
 - f) Repeat the procedure until there is no change in tone from "air" to "ground". Thus set the detector will cancel out the soil's mineralisation which will allow deeper detection of **all** metal objects.

Note: be sure when carrying out GEB adjustment that you are not over any metal.

5. Discrimination.

If the ground in which you are detecting has only slight mineralisation you may wish instead to use the discrimination capabilities of this unit. Therefore areas 3 to 10 on the GEB/Disc knob can be used. The unit in effect becomes a standard TR machine and will be affected by ground mineralisation. See drawing below for discrimination levels.



SEARCHING

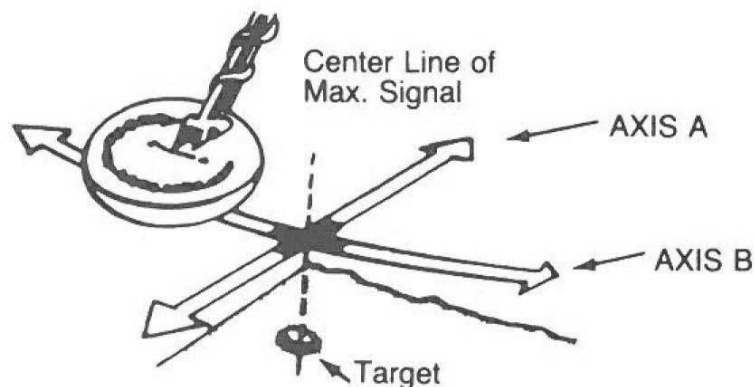
Begin searching by sweeping the loop slowly in front of you keeping the loop about 1/2" off the ground.

If the loop is tilted or lifted the tone will become louder. To help eliminate false signals caused by tilting and lifting try to keep the loop parallel to the ground while you sweep.

The more the tone changes from the slightest up or down movement of the loop the more mineralisation there is in the soil and therefore the ground adjustment setting should be used.

PIN POINTING

This should be best achieved by using the cross method as shown in the drawing below.



The signal intensity meter located in the handle will give a visual reading at the same time as the speaker or headphones gives an audio response.

BATTERIES

Your battery pack holds six 1½ volt AA penlight batteries. These batteries are readily available at stores anywhere.

To change the batteries, first remove the battery pack from the back of the instrument. To remove each battery, push against the spring and pull out the opposite end. You will see a (+) or (-) in the slot where the battery was and also on the battery. To replace the batteries, simply match the plus (+) and minus (-) symbols and snap the new battery into place. Next, snap the battery pack into the battery leads from the machine and replace it.

Generally speaking, your batteries need replacing when the volume becomes weak and the instrument loses sensitivity or the battery check on meter is below the 40 mark.

White's sell a rechargeable battery system which can save you money when compared with replacing regular type batteries. Nickel Cadmium batteries can be recharged more than one thousand times. Our tests show that, under normal conditions, you may expect anywhere from ten to twenty hours of continuous use before you need to recharge them. If the instrument is only used for a few hours a day, you can expect longer battery life. You can see the value of obtaining a charger and the rechargeable batteries!

HEADPHONES

Headphones are an excellent accessory. They concentrate the sound for you, permitting you to hear very slight differences in volume. They also shut out unwanted external noise which can interfere with your ability to detect objects.

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 with a blanket or something similar to protect it from the direct rays of the sun, and then leave the windows slightly open to permit ventilation. Needless to say, 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 wipe it thoroughly with a damp cloth being careful not to let water enter the case.

Additional Precautions — Avoid dropping your detector. Do not use WD-40 on any of the electronic components. Avoid sharp jars to the loop. Do not allow batteries to corrode inside the instrument.

Storage — If you plan to store your detector for any length of time, unsnap the batteries and remove them from the instrument. Whenever your detector is not in use, turn the unit all the way OFF.

AFTER SALES SERVICE

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 (UK) have always been concerned with the absolute quality of their mineral/metal detectors. Service after the sale 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 then 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 unauthorised persons will automatically nullify the warranty.

If your unit requires repair or service, then return it to:

**WHITE'S ELECTRONICS (UK) LTD.
35 Harbour Road
Inverness
IV1 1UA
Scotland**

WHITE'S ELECTRONICS (UK) LTD.

WARRANTY

If within one year (12 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 (UK) Ltd will repair or replace, at its option, all necessary parts without charge for parts or labour.

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

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

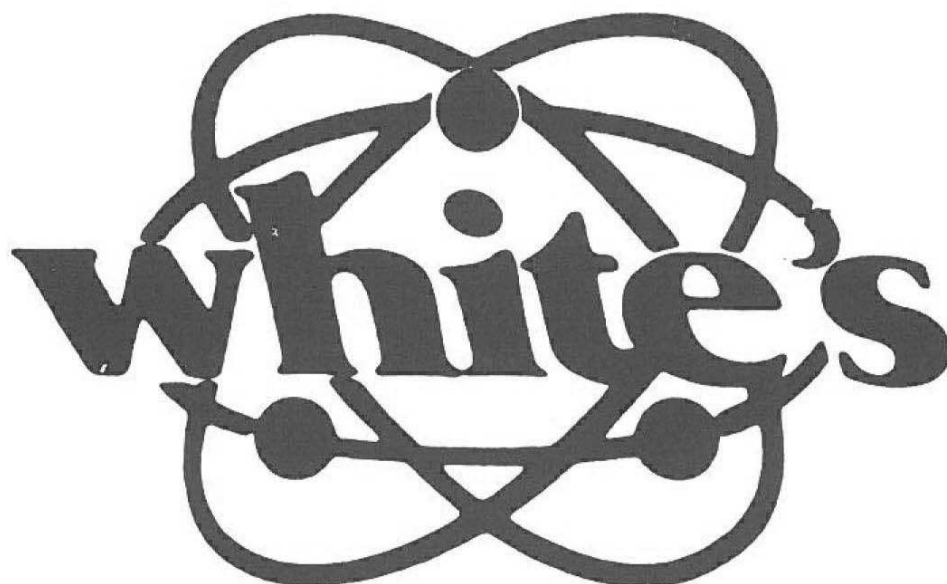
The warranty is not valid unless the Warranty Registration Card is returned to the factory address within 10 (ten) days of original purchase for the purpose of recording that date, which is the actual commencement date of the warranty.

This warranty does not cover damage to detectors caused by accident, misuse, neglect, alterations or modifications or unauthorised service.

Duration of any implied warranties (eg 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 resulting from defects or failures of the instrument to perform.

This warranty does not affect your statutory legal rights.



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To comply with European Legislation (Directive WEEE) this unit must not be disposed of, at the end of its useful life, in any waste bin or landfill site but must be returned to any White's Dealer/Distributor for proper disposal under the legislation.

**Please contact White's Inverness for details of
your nearest dealer/distributor**