

## User Manual

### Viking 6

**Thank you for your choice in purchasing a VIKING 6 Metal Detector. It is important that you read the following instructions carefully so that you obtain the maximum benefit and success from your detector.**

The **VIKING 6** is a non-motion, discriminating metal detector. This simply means that the search head does not need to be kept in motion for detection to take place. Also, unwanted target objects can be ignored by the detector.

#### Getting Started

##### Unpack The Detector

There are two main sections. The 'S' shaft, onto which is mounted the control box, and the bottom shaft with the search head.

##### Assemble The Detector

Slide the lower shaft into the 'S' shaft, wrapping the cable snugly, but not tightly, round the shaft. When correctly aligned it will click into 1 of 3 positions.

##### Tighten the coupling

Turn the coupling to the 'lock' position as indicated by the arrow. This makes a rigid connection between the two parts of the shaft.

##### Insert Battery

The detector takes a single PP3 (square) 9V battery. This is placed in the battery compartment on the back of the control box.

**ENSURE THE BATTERY IS INSERTED THE CORRECT WAY ROUND**

Push the drawer back into the detector until it clicks. Please note the drawer can only be inserted the one way.

Your detector is now ready for use



#### The VIKING 6

The **VIKING 6** has the control box mounted on top of the shaft allowing easy access to the controls.

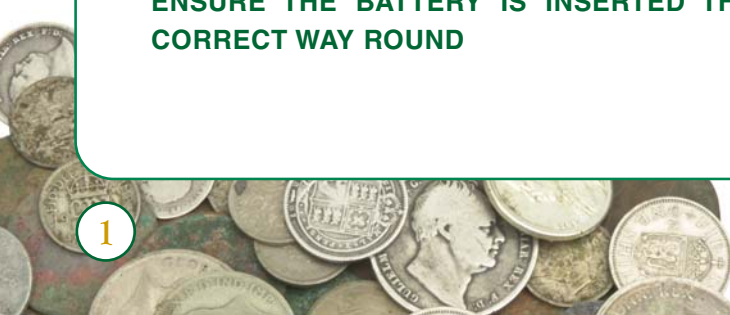
1. **Tuning Control**
2. **Discrimination Control**
3. **Retune Pushbutton**
4. **Headphone Socket**

##### 1. Tuning Control

Turning this control clockwise switches the detector on and tunes the detector to the correct point known as the **THRESHOLD**. The term **THRESHOLD** is explained later.

##### 2. Discrimination Control

This control sets the amount of **DISCRIMINATION** required. At setting '0' the detector will detect all metals other than very



small pieces of iron. The further up the scale the control is set, the more objects will be rejected. On a high setting only the most conductive objects will be found. It should be noted that if the control is set too high, then modern coinage and other desirable objects will be rejected.

### 3. Retune Pushbutton

This is held down when tuning the detector to **THRESHOLD**. It is also pressed and released to retune to **THRESHOLD** if the detector drifts out of tune.

### 4. Headphone Socket

The headphone socket accepts a standard ¼" stereo jack plug. Plugging in stereo headphones automatically disconnects the loudspeaker. Headphones will give slightly more sensitivity as they cut out external noises which can interfere with your ability to detect objects.

## Using Your Detector

1. Set the discrimination control to the desired level (to begin with it is probably advisable to set this at '0' until you have become more familiar with the controls).

2. While holding the detector, position the search head approximately 5cm (2") from the ground and parallel to it, making sure that the search head is kept away from any metal.

3. Keeping the **RETUNE** pushbutton pressed, turn the tuning control clockwise until a faint sound is heard (Maximum sensitivity on any metal detector of this type is achieved when the sound is just audible). This point is known as **THRESHOLD**. Release the **RETUNE** pushbutton and the detector is tuned.

4. With your detector now correctly tuned, you will notice that lowering the search head to the ground makes the faint sound from the speaker fade away. Similarly, raising the search head causes the sound to increase. This is a normal reaction to the ground and does not necessarily indicate the presence of lack of buried objects (See **GROUND EFFECT**).

5. By maintaining a constant distance between the search head and the ground, commence by slowly walking forward, scanning the ground in an arc. A slow scanning speed is best, as this helps to hear the weak signals produced by deeper buried objects.

6. On hearing a sharp note, this is an indication that a small metallic object is present. A long note is an indication of a larger object. Strength of note is also dependent on the depth of the target object.

If you wish to alter the position of the **DISCRIMINATION** control, simply press the **RETUNE** pushbutton and at the same time alter the control to the desired number, then release the pushbutton.

When **DISCRIMINATION** is used, you may hear a sharp, quick signal if the search head touches or passes extremely close to an object that would usually be rejected. This is a false signal but, to make sure, raise the head slightly and pass over the object again. Only good objects will continue to respond.

## Ground Effect

The ground contains quantities of magnetic iron oxides, of which some soils are more prolific than others. Magnetic iron oxides create a phenomenon known as 'ground effect'.

On inland sites, this effect is known as 'negative'. With this type of ground effect, the normal faint threshold signal required to commence a search, disappears as the search head is lowered to the ground. Maintaining a constant height between the search head and the ground reduces this effect.

On beaches, a 'positive' ground effect is experienced. This is caused by the conductivity of the ground in salt-water areas. When this effect occurs, the threshold signal becomes louder as the search head is lowered to the ground. Applying some discrimination will reduce the effect of 'positive' ground.

## Effects of Temperature

The VIKING 6 is a highly sensitive instrument and therefore can be affected by variations in temperature. Whilst the detector is extremely stable in constant temperatures, it can take up to 15 minutes to acclimatise. For example, if it has been in a hot car and is then brought into a cooler climate for use, **THRESHOLD** drift may be experienced until the circuit cools down to the ambient temperature of its surroundings. Similar effects may be experienced if the detector is operated in the shade and then brought out into bright sunlight. In cases of drift, momentarily pressing the **RETUNE** pushbutton will bring the detector back to **THRESHOLD**.

Problem	Possible Cause	Remedy
No sound from speaker	Battery	Check battery is good & inserted correctly
	Headphones connected	Remove headphones
Unit does not detect	Incorrect Tuning	Hold <b>RETUNE</b> pushbutton and adjust <b>TUNING</b> control Erratic Operation
	Cable detection	Wrap cable snugly round shaft
	Battery	Check battery is good & inserted correctly
Threshold Drift	Sudden Temperature Change	Allow detector time to acclimatise.

If you are experiencing any problems not covered by the above see opposite page for details of our warranty / repair service.

### Caring For Your Detector

In order to keep your machine in good condition, please take the following precautions:

- When using in bad weather, protect the electronics in the control box by wrapping in a waterproof bag.
- Clean your detector regularly and ensure the shaft is free from dirt, especially sand. Use a damp cloth with mild detergent, but make sure no water gets into the control box.
- If the detector is stored for long periods remove the batteries. If they leak or corrode they could cause serious damage to the detector.
- Always choose a well-known brand of battery.

### Warranty Service

Return of the enclosed guarantee card entitles the original purchaser to a full 2-year guarantee from the original purchase date. This covers parts and labour, excluding batteries. This does not, however, cover postage of the unit to or from our factory. This must be paid by the owner of the detector.

In the unlikely event that you do need to return the detector to us, please pack it securely along with a letter explaining the problem and a cheque for £6.00 to cover return carriage and insurance to:

#### Viking Metal Detectors

1 Angela Street

Mill Hill

Blackburn

Lancs.

BB2 4DJ

Please make cheques payable to Viking Metal Detectors. If you are unsure about the fault please give us a call on **(01254) 55887** and we will be happy to advise you.

### Code of Conduct for Responsible Detector Users

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- 1.** Do not trespass. Ask permission before venturing onto any private land.
- 2.** Respect the country code. Do not leave gates open when crossing fields. Do not damage crops or frighten animals.
- 3.** Do not leave a mess. It is perfectly simple to extract a coin, or other small object, buried a few inches under the ground without digging a large hole. Use a sharpened trowel or knife to cut a neat flap (Do not remove the plug of earth completely from the ground), extract the object, replace the soil and grass carefully. Even you will have difficulty in finding the spot again.
- 4.** Help to keep Britain tidy - and help yourself. Bottle tops, silver paper and tin cans are the last thing you should throw down again. It is possible you will find yourself digging them up again in the future. Do yourself and the community a favour by taking the junk you find to the nearest litter bin.
- 5.** If you discover any live ammunition or other lethal objects such as an unexploded bomb or mine, do not touch it. Mark the site carefully and report the find to the local police and landowner.
- 6.** Report all unusual, historical finds to the landowner.
- 7.** Familiarise yourself with the law relating to archaeological sites. Remember it is illegal for anyone to use metal detectors on a scheduled ancient monument unless permission has been obtained from the historic buildings and ancient monuments commission. Also acquaint yourself with the practice of treasure trove.
- 8.** Remember that when you are out with your metal detector you are an ambassador for your hobby. Do nothing that may give it a bad name.
- 9.** Never miss an opportunity to show and explain your detector to anyone who asks about it. Be friendly. You could pick up some useful clues to the whereabouts of another site. If you meet another detector user, introduce yourself. You may learn much about the hobby from each other.