CS1M

OPERATING INSTRUCTIONS

C.SCOPE

INTRODUCTION

In order to obtain the best results from your new metal locator/detector, please carefully read this instruction leaflet. The CS1M is an all-purpose metal locator/detector and will provide you with many hours of pleasure and treasure hunting.

The CS1M is a motion detector, the search head needs to be moving from left to right (motion) for the presence of metal to be acknowledged.

DESCRIPTION AND CONTROLS

ON/OFF SENSITIVITY - Switches the detector on and adjusts the sensitivity to metal.

DISC - Turning this control more clockwise has the effect of eliminating (DISCriminating) unwanted signals such as iron and foil.

HEADPHONE SOCKET - Any stereo headphone with a 6.35mm plug can be used. Use of headphones will mute the internal speaker.

ASSEMBLY

How to assemble your CS1M

The CS1M comes to you dismantled for ease of packing.
To assemble follow these few easy steps :

1. Loosen the lock nut on the upper stem section and insert the lower stem section with search head.

2. Adjust height and coil the search head lead along the stems to prevent unwanted signals. Tuck the lead into the grooves on the lower stem section.

3. Tighten lock nut.

4. Adjust angle of search head, so that the detector balances well, and tighten as necessary.

Note : All nuts and screws on the detector should only be tightened by hand, never use any tools as this may cause breakages.

BATTERIES

The CS1M is powered by two PP3 (9V) batteries and we recommend you use the alkaline long life type.

1. Remove the battery compartment cover by gently squeezing the right hand edge towards the centre of the cover and pulling outwards.

2. Ensuring that the positive and negative terminals are correctly located, insert the batteries into the contacts and place batteries into compartment.

3. Replace the cover by inserting the left hand lip into the control box and pushing the right hand spring side until it clicks into position.

Rechargeable Battery Charging

Rechargeable 9V batteries can be used. Please see your local dealer for details.

OPERATION OF THE CS1M

Switch unit on by turning Sensitivity control clockwise. Set the control fully clockwise. If you experience interference from external sources or soil mineralisation, reduce the sensitivity until the detector is stable. Sweep the search head from side to side. The presence of metal will be confirmed by a bleep from the speaker as you pass over the object.

N.B. Before turning on the detector, ensure no metal objects are in the vicinity.

Discrimination

The CS1M has a variable discrimination control which allows the operator to choose from any setting between all metal detection to iron and silver paper rejection.

To adjust the Discriminate Level Control turn Discrimination Level Control to the desired level.

If an object has been discriminated, the detector will ignore it. For example, with the control set to 3, an iron nail will be ignored but a coin accepted.

Please note at higher discriminate settings some desirable objects may be ignored by the detector.

USE OF YOUR DETECTOR IN THE FIELD

Detecting

To test for the type of signal you will get, take a coin or metal object and with the detector set up on a table, move the metal object across the search head. You will hear a short bleep as you pass the metal across the search head, and another bleep as you pass back again.

Detection Range

Detection ranges will vary depending on the size of the object, the length of time an object ahs been buried, and the type of ground the object is buried in. The best ground conditions are dry well compacted soils the n coins can be found at the greatest depths if they have been buried for some time and the coin has interacted with the salts in the ground, thereby appearing larger to the detector. The worst conditions for detecting are on loosely compacted or freshly dug ground or when the object has only recently been buried. In these conditions detection range will be reduced. 90% of all objects are found within

6" of the surface. Adverse soil conditions can reduce the depth of detection by more than half.

Determining the Target Size and Depth

An operator who is familiar with his instrument will be able to do an excellent job of determining object size, shape and depth before he digs. The technique is learned from careful analysis of the audio signals coming from the detector. Each time a signal is heard, listen for any peculiar characteristics it may have ; determine over how large an area you get a detector signal ; and try to "outline" the object before you dig.

CARE AND MAINTENANCE

The working life of you detector will be shortened by careless you or neglect of the unit. Your detector is designed to withstand rugged handling on any terrain, but mis-use or lack of due attention will tell in the end.

After using your detector in a hostile environment (salt water, sand, etc.), the exterior parts should be wiped with a damp cloth using fresh water, paying particular attention to the head, and carefully wiped dry.

Salt Damage

If you use your detector continually in a salty environment, particularly when the wind is blowing off the sea, salty air can penetrate the control box.

Corrosion can occur in vital parts of the delicate electronic circuitry.

It is, therefore, recommended that precautions such as covering the control box with polythene be taken to avoid damage.

The guarantee cannot cover such occurrences and any repairs needed because of salt water or spray will incur a charge.

The Use of Solvents or Detergents

Solvents of detergents should not be used on the detector as they will attack the plastic parts.

Storage
If the detector is to be stored, remove the batteries as they may leak and corrode the surrounding electronics.

Detector Not Operating :

(a) Check the condition of the batteries.
(b) Interchange batteries and ensure connections are correct and secure. Battery life can vary tremendously between makes, therefore your 'new' batteries may already have insufficient power to run your detector.

Oscillating Signal

(a) Caused most often by outside equipment such as fluorescent lights, taxis, radios, power lines, and other metal detectors working nearby. Try reducing sensitivity or in severe cases, find a new site.

Intermittent Sound From Speaker

(a) This could be due to poor battery connections. Ensure they are tight and the batteries are securely clipped in place.
(b) Radio transmission from passing taxi or vehicle using radio transmitter equipment (see above).

Before returning a detector for repair, ensure you have done the following :

(a) Read instructions thoroughly.
(b) Tried new batteries and checked procedure outlined above.
(c) Spoken to the local dealer about performance of the detector, especially if you are still unfamiliar with metal detectors in general.

CODE OF CONDUCT

1. Do not interfere with archaeological sites or ancient monuments. Join your local archaeological society if you are interested in ancient history.

2. Do not leave a mess. Use a sharpened trowel of knife to cut a neat circle or triangle ; extract the object ; replace the soil and grass carefully.

3. Help keep the land tidy - and help yourself. Bottle tops, silver paper and tin cans are the last things you should throw away. Do the community a favour by taking all the junk you find to the nearest litter bin.

4. Do not trespass. Ask permission before venturing onto any private land.

5. Report all unusual historical finds to the local museum and get expert help if you accidentally discover a site of archaeological interest.

6. If you discover any live ammunition or any lethal object such as an unexploded mine, do not touch it. Mark the site carefully and report the find at once to the local Police.

7. Learn the local Treasure Trove laws and report all finds of gold, silver of valuable objects to the Police.

8. Respect the Country Code. Do not leave gates open when crossing fields, and do not damage crops or frighten animals.

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 another site. If you meet another detector user, introduce yourself. You may learn much about the hobby from each other.

10. Remember that when you are out with your detector, you are an ambassador for the amateur treasure hunting fraternity. Do not give us a bad name.

This equipment conforms to the EMC Directive 89/336/EEC.
However, system performance may be impaired by unusually strong electromagnetic fields.