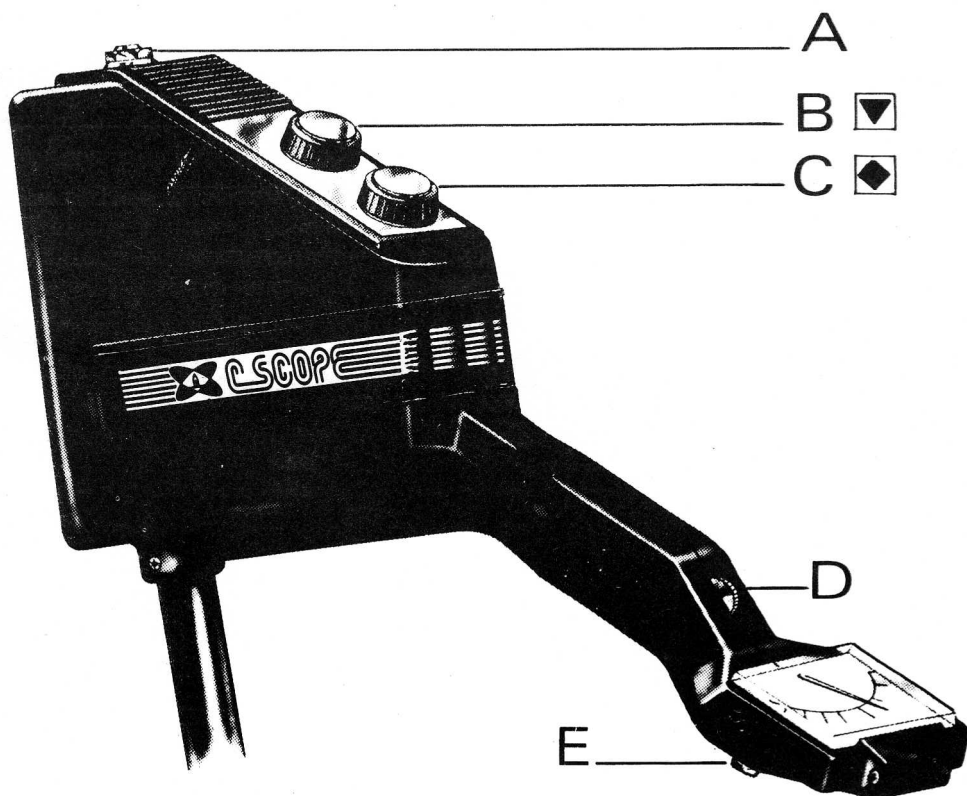




METAL DETECTOR



TR 300
TR 400 *(With Meter)*
OPERATING INSTRUCTIONS

C-SCOPE TR 300 & TR 400 OPERATING INSTRUCTIONS

You are now the owner of a C-SCOPE metal detector. C-Scope detectors are recognised as one of the finest metal detectors available. They are designed and manufactured to the highest standard to give you the maximum enjoyment and success. In order to obtain the best results, it is **IMPORTANT** that you read and follow these instructions.

OPERATING PROCEDURE

1. ASSEMBLY AND BATTERIES

Before testing your detector it is necessary to purchase and insert 2 PP3 batteries. They will last for approximately 60 hours of use depending on how long the detector is used each time and whether headphones are used. When the unit is not in use, it is **IMPORTANT** to make sure the detector is switched off, or battery drain will result. As the batteries get weaker, the volume will deteriorate. To insert batteries remove the battery cover panel and insert the 2 PP3's as per the diagram C.

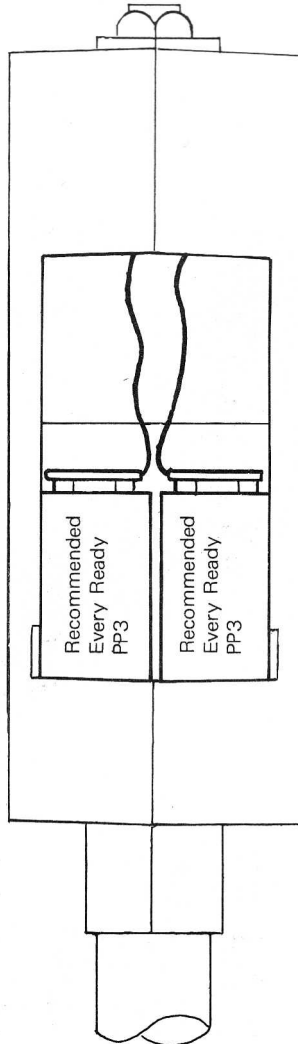


DIAGRAM C

To assemble your detector slacken off the knurled locking nut, insert the lower stem into the upper stem and select the most suitable position for the user, then tighten the knurled locking nut.

2. CONTROLS & FACILITIES

(A) **HEADPHONE SOCKET.** Normal stereo headphones with a standard jackplug may be used, and these will improve performance. The detector is fitted with an integral loudspeaker as standard. However, if headphones are used this will automatically cut out the loudspeaker.

(B) **ON/OFF VOLUME** ▼

(C) **MAIN TUNING** ◆

(D) **FINE TUNING**

(E) **BATTERY CHECK**

Before commencing an actual search, it is advisable for the user to understand the controls and their functions. It is also important to test for the kind of signals the detector will give in use. The best way to do this is to tune the detector indoors by laying the detector over the edge of a table with the head hanging over the edge. Make sure there is no metal within a few feet of the head.

3. TUNING

The Treasure Seeker TR/M is designed to change volume when the search head is passed over metal. To tune the detector, first switch the unit on at the ON/OFF switch (B). Then turn the MAIN TUNING control (C) clockwise until a tone can just be heard. Then turn this same control back until the tone just fades. The level of tuning can then be correctly set by adjusting the FINE TUNING control (D). The best setting is a level where the sound is just beginning to break through; that is where the sound can just be heard. If the detector is operated on a SILENT setting or when a tone is heard all the time, sensitivity will be lost.

4. DETECTING

To test for the type of signal you will get, take a coin or metal object and with the detector still on a table tuned as previously described, move the metal object towards **and** across the search head. You will note that the volume will increase quickly as the metal object passes across the search head, with the loudest sound occurring when the search head is immediately centred over the metal object. As the object passes beyond the search head the sound will quickly fade.

Since the detectors employ a Total Response search head the object can be detected across the full width, back to front, of the search head.

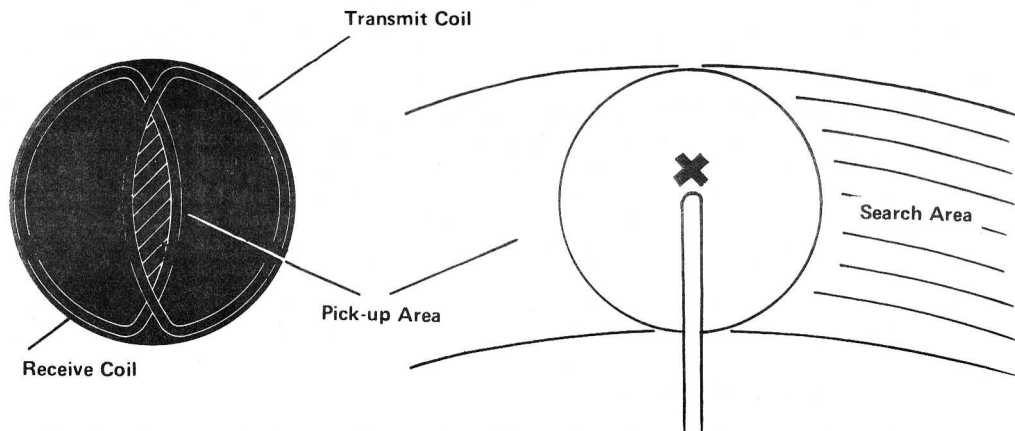
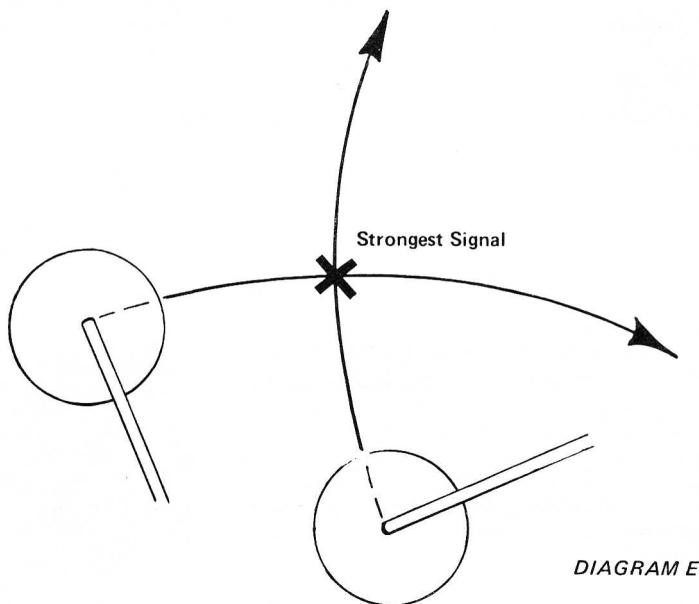


DIAGRAM D

The strongest signal will always be received when the object is directly beneath the centre of the head (see X in diagram D). To pinpoint the find, stop the search head when you are directly over the target object, then move the search head through 90° and sweep again, thus forming a cross with the two sweeps. The target object will be at the intersection of the two sweeps as shown in diagram E.



5. DETECTION RANGE

Detection ranges will vary depending on the size of the object, the length of time an object has been buried, and the type of ground the object is buried in. Generally speaking a small object such as a coin can be detected up to 10" deep and larger objects such as a hoard of coins or a gun or sword up to about 3'. The best ground conditions are well compacted soils and coins can be found at the greatest depths if the object has 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.

6. 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. This 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. Listen for the sharpness or dullness of the signals and determine the magnitude of strength of the signal.

After digging-up the object, compare the object size, shape, depth, and position in the ground with signal information you received before digging. After careful analysis of many digs, you will learn to "read" the hidden target before digging.

7. RECOMMENDATIONS FOR USE

Treasure hunting can be a profitable and a rewarding hobby, if approached in a patient and diligent manner. Time spent researching to locate a worthwhile site for a search can be time wasted if your search is hasty and erratic.

Tactics will be decided by the type of site — it is more profitable to scan a small area thoroughly than to conduct a haphazard search of the total site. However, when the site is too far away for you to make several return visits, a plan should be adopted which gives maximum site coverage, at the same time as indicating the most likely areas for detailed search.

[illegible]

The figure consists of four schematic cross-sections labeled A, B, C, and D, illustrating the stages of soil formation around a pile cap:

- A:** Shows a pile being driven into the ground. The pile tip is at depth, and there is some initial soil displacement.
- B:** The pile has moved further down. Soil is beginning to accumulate around the pile shaft above the current depth.
- C:** The pile has reached its final position. A significant layer of soil has accumulated directly beneath the pile cap, forming a dense soil layer.
- D:** The pile is shown tilted slightly after being driven. The soil layer beneath the cap remains, and additional soil is shown accumulating along the sides of the pile shaft.

The diagram shows a magnetic field represented by six horizontal lines with arrows pointing from left to right. A vertical line with arrows pointing up and down is labeled "LINE OF SWEEP". A circular path labeled "1" is shown in the center of the field. A vertical double-headed arrow labeled "A" indicates the distance from the center of the path to the bottom line. A horizontal double-headed arrow labeled "B" indicates the total width of the field.

An area ten foot square is marked out around the find located by criss-cross search. This is then divided into strips which are carefully searched.

Distance A = width of the detector's pick-up area.

Distance B = length of a comfortable sweep.

Be as tidy as possible when extracting the finds from the ground. Nobody likes to see a footpath or field with great 'pits' left in it through careless digging — and even small holes are dangerous because people can trip and injure themselves. So, please, follow the treasure hunter's, 'Code of Conduct', see page 9.

Use a blunt trowel, or a medium-sized screwdriver to cut away the sod, and extract a core of earth from beneath this. Check that the core contains the find, before breaking it open. Avoid the use of sharp instruments (such as knives) at all times, since a scratch on a coin can reduce its value considerably.

After extracting the find, replace the soil and put back the sod as neatly as possible.

Another useful tip is to 'collect' all pieces of silver paper or junk that you come across — if you simply throw them to one side, you will probably end up detecting them again later!

8. CARE & MAINTENANCE

a) Care of your Detector

The working life of your detector will be shortened by careless use or neglect of the unit. Think of your detector as a scientific instrument — NOT A TOY. 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 of the casing should be flushed with clean water, paying particular attention to the head, and carefully wiped dry. Foreign particles in the control box can be removed by brushing carefully (or with compressed air or vacuum cleaner).

The life of the controls may be extended by periodic (100 hours of use) application of small quantities of light lubricant to the spindles, threads and knob grub screws ("3-in-1" or similar household oil is suitable). This operation requires the knob to be removed.

Light packing grease should be smeared on the threads of the locking collar, and at the same time, the head fixing bolt. Do not store the detector in a damp place.

If these suggestions are followed, your detector will give you many years of efficient use.

IN THE EVENT OF A FAULT

All faults or queries can be notified direct to the retailer or to C-SCOPE METAL DETECTORS (UK) LTD., at Candle International House, Wotton Road, Kingsnorth Industrial Estate, Ashford, Kent TN 25 2LN.

If there are any problems quote the serial number on your copy of the guarantee form or inside the control box, and write to the above address or telephone ASHFORD 29181. Please state as clearly as possible the nature of the problem.

If sending the detector directly to C-Scope include an explanatory letter. Please check thoroughly with these operating instructions before sending your instrument back, particularly ensuring that the batteries are not simply run down.

IMPORTANT NOTICES

Following the guarantee period, C-Scope will correct all normal detector wear and failures at factory cost, plus shipping. A service charge of £2.50 plus shipping costs, will be made on any instrument that is sent to the factory and needs ONLY a battery. Please check your detector thoroughly with a new battery before sending it in.

C Scope is continuously improving its products. Because of this, we reserve the right to make changes at any time. If you receive an instrument which has some feature slightly different from that shown in the brochures you have seen, or if a switch or control is relocated, etc., rest assured that this change is an improvement.

You may sell or trade your detector with the full assurance that the guarantee will remain valid until normal expiry, regardless of who owns the instrument.

A GUIDE TO TREASURE HUNTING

THE IMPORTANCE OF THE RIGHT APPROACH

HOW TO LOOK

THE BEST SITES

WHERE TO LOOK

TREASURE HUNTING & THE LAW

THE RIGHTS OF THE FINDER

TREASURE TROVE

A CODE OF CONDUCT

THE IMPORTANCE OF THE RIGHT APPROACH

Your detector alone is not a guarantee of successful treasure hunting. Any detector needs an operator, and for the best results the operator needs the right approach, attitude and technique. Too many beginners neglect the importance of pre-planning and research before using their detector in the field, and patience and technique during the actual search.

A successful search should begin with research sometime before the day of the actual search. The extent and thoroughness of your research will be one of the major factors in the success of your detecting. You should aim to get as complete an understanding as possible of the local history and geography.

The key to the choice of the site is to think of people, where they congregated over the past few hundred years. What were their customs and pursuits? Where did they spend money? Where did they carry money? The answers are not Roman sites, nor are they associated with mystic treasure stories of crocks of gold. Rather, they are unassuming, undramatic places, like public footpaths and ancient rights of way, old houses and so on.

When you have chosen your site, allocate a whole day from early morning to early evening for the search. Make sure that you have all equipment you are likely to need. Your detector should be checked before starting out, and you should always carry a spare set of batteries. You will also need a strong, sharp trowel. It is also a good idea to have a set of lines and pins so that you can lay out your search area scientifically. Most beginners make the mistake of rushing about hoping to chance upon a rare find. If for example, there happened to be a valuable ring that was buried 4" deep on the site you were searching, if you rushed about haphazardly and quickly on the site, the odds would be very much against your finding it. On the other hand, if you pegged out the area scientifically and searched slowly and thoroughly, the odds of finding the ring would be much more in your favour.

Remember, BE PATIENT and WORK SLOWLY. Do not try to cover too large an area. Restrict yourself to a small area and work through it thoroughly. Make a note of the position and extent of the area, and then when you return you can start again further on without missing any ground or covering the same area twice.

It is also important to keep the detector head as close to the ground as possible. Ideally, you should "iron" the ground with the search head of the detector, so that you do not lose any detection range.

Similarly, if you work slowly and carefully you should be able to distinguish the faint signals as well as the clear-cut signals and further increase your finds.

The technique of getting the best out of your detector is not learnt overnight. You need to get as much experience as possible so that you can recognise every kind of signal. Indeed, a good detector operator can often tell you what is being detected before it is unearthed.

WHERE TO LOOK

It has already been mentioned that the most profitable sites are those where people have congregated, walked, or lived over the past few hundred years, or even longer.

Houses If you live in a Victorian house you might not even have to leave your home for your treasure hunting. Old houses have seen remarkable amounts of money pass over the threshold during their history. Britain has had its fair share of misers, and it is surprising how many little hoards or boxes containing savings turn up.

One area to concentrate on is under skirting boards, where coins or rings might have rolled. Doorways too, may prove rewarding as many money transactions take place there. Old fireplace and chimneys should be well scanned with the detector, as these are favourites for finding hoards, etc. The floorboards should be examined carefully and special attention paid to short lengths which could conceal caches. It is also surprising how much money is lost in old chairs, so give them a look over. And then, of course, the garden should be thoroughly examined. The amount of coins lost in old houses cannot be over-estimated. Most coin shops confirm that many people bring coins in for valuation that they have found *accidentally* in their houses. A deliberate search in a house of the right age can hardly fail to be rewarding.

Rivers The best parts of rivers to concentrate on are (1) public footpaths along river banks. (2) Bends of the river where erosion has been taking place. (3) Bends in the river where coins are likely to be deposited against a particular bank by the action of the current. (4) Areas downstream of old drainage pipes or upstream of projections such as wooded piers, or other obstructions. (5) Old fords or bridges. (6) Areas exposed at low tide where eddy action has been taking place.

Tidal rivers are particularly interesting, as once you have found a good site or spot where coins have been collected due to the currents, you can search the area well one day and still return at a later date for more rewarding finds. Rivers tend to sort out their load and distribute it according to weight along the bank in places like those itemised above.

Beaches Beaches are, without a doubt, the favourite haunt of the average British treasurer hunter. At one time or another, almost everybody has made the journey to the coast. The beaches are the only place where people undress publicly; anyone who has attempted to change into a bathing costume discreetly and then store their coins on the open sand knows the chances of losing not only coins, but jewellery and wristwatches, too.

Once an object has been mislaid on the beach, it is maddeningly difficult to find it again.

There is also a high incidence of wrecks along our coasts, the contents of which are deposited at intervals on our beaches.

These factors contribute to make our beaches probably the richest site for the amateur treasure hunter. The best times to explore beaches are after heavy storms when the sand has been thoroughly stirred up and shifted. A good place to concentrate on is along or just below the tide marks, which are easily identified by the lines of debris that are left. Under piers or alongside breakwaters also usually pay dividends.

Other good sites are:- Fairgrounds, Children's Playgrounds, Tobbogan runs and Demolition Sites.

TREASURE HUNTING AND THE LAW

RIGHTS OF THE FINDER

The rights of the finder fall into two distinct classes. The first relates to objects that have recently been lost, and the second to items of gold or silver which are subject, or might by subject, to the laws of the Treasure Trove.

In the first place, where the object has been recently lost and found and is valuable, it should be handed to the Police as soon after it has been found as possible. The Police will then attempt to locate the owner. If they succeed in locating the owner, he has the legal right to the object and is not legally bound to reward the finder. That is a matter for the owner's conscience.

In the event of the Police failing to locate the owner they will probably return the object to the finder. If, however, the owner makes a claim for the object at a later date, the finder must return the item to the owner.

If the owner is not located the finder has the best rights to ownership, provided that the object was not found on private property, in which case the owner of the land often has a better right than the finder. The solution here, of course, is to obtain permission beforehand and to come to some agreement with the landowner with regard to the division of any finds.

If on the other hand, the find of gold or silver can be proved to have been deliberately concealed, with a view to recovery at a later date, the find comes under the laws of the Treasure Trove. If the objects cannot be proved to have been deliberately concealed, the find cannot be declared Treasure Trove. Usually this point centres around the quantity of coins in a hoard, or whether the find is in a container. Obviously, if there are a hundred or so coins in a pot, they were almost certainly deliberately concealed. If, however, there are only one or two coins, it is more likely that they were lost accidentally.

If the objects are declared Treasure Trove, the finder has no need to worry, for he is rewarded with a cash settlement to the full market value of the find.

When the objects are not declared Treasure Trove, the owner of the land on which the find was made usually has a better claim to ownership than the finder.

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. It is perfectly simple to extract a coin or other small object buried a few inches under the ground without digging a great hole. Use a sharpened trowel or knife to cut a neat circle or triangle (do not remove the plug of earth entirely from the ground); extract the object; replace the soil and grass carefully and even you will have difficulty in finding the spot again.
3. Help keep Britain tidy — and help yourself. Bottle tops, silver paper and tin cans are the last things you should throw away. You could well be digging them up again next year. Do yourself and the community a favour by taking all the rusty junk you find to the nearest litter bin.
4. Do not trespass. Ask permission before venturing on to 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 treasure trove laws and report all finds of gold or silver objects to the Police. If a coroner's inquest finds that the objects were deliberately concealed with the intention of retrieving them, they become the property of the Crown and therefore treasure trove. But even if the British Museum decides to exercise its right to keep the property, the finder is granted the full market value.
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.

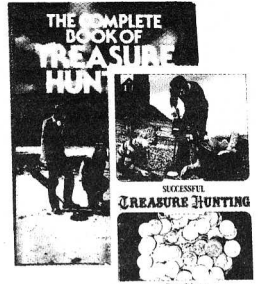
ACCESSORIES

SUCCESSFUL TREASURE HUNTING – ROGER JOHNSON – HARDBACK

This book takes the metal detector enthusiast through the basics of the hobby. Particularly valuable for the enthusiastic beginner, and the serious amateur who wishes to get more from his detector. Illustrated by a wide selection of photographs and drawings.

THE COMPLETE BOOK OF TREASURE HUNTING – KATE JOHNSON – HARDBACK

Whether you have a metal detector or not, this book explores the whole gamut of treasure hunting and collecting. The various treasure hunting techniques are explained, with many illustrations and diagrams, a worthwhile book for the complete treasure hunter.



GLITTERING PROSPECTS – JOAN ALLEN – PAPERBACK

An illustrated paperback tracing the growth of treasure hunting from its origins, to the use of modern techniques on all types of sites. Still one of the most useful and popular metal detector enthusiast's companions.

SUCCESSFUL TREASURE HUNTERS SITE GUIDE – J. WEBB – HARDBACK

An ideal companion to Successful Treasure Hunting, written by one of the most respected names in metal detecting. This book shows how to choose and research sites, and answer the question "Now I know how to use my detector, where do I go?"

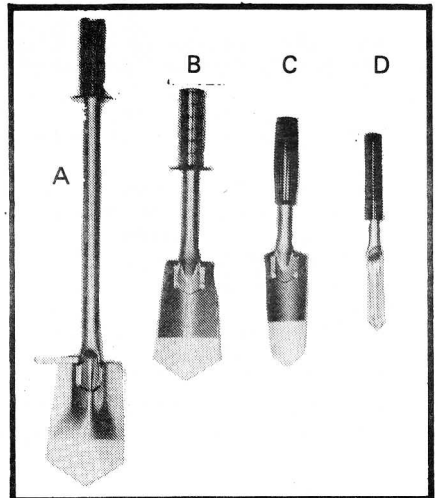
TROWELS

(a) Finepoint Trowel Ideal for coinshooting, this trowel enables the accurately pinpointed coin to be extracted from even the hardest ground with minimal disturbance to the site.

(b) Standard Trowel Strongly constructed, its narrow blade is pre-sharpened for ease of use on all types of terrain. The ideal general purpose trowel for both inland and coastal sites.

(c) Wide Blade Trowel Heavily constructed for extended heavy use. The wide blade trowel has a variety of applications. Ideally suited to ploughed land, beaches or any site where the deeper objects are to be found.

(d) Foot Assisted Trowel Designed to enable the treasure hunter to accurately and carefully cut a small divot causing the least amount of damage, particularly to turfed sites. Its long shaft with foot assistor bar helps extract those deeper finds with the minimum of effort.



*A wide range of C-Scope Treasure Hunting Accessories are available from your Local Stockist –
See Brochure for full details!*