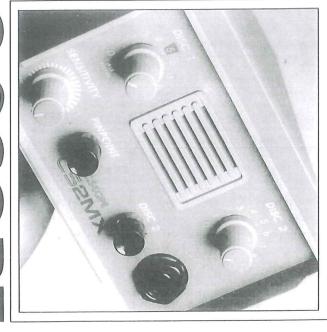
C.SCOPE

OPERATING INSTRUCTIONS



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INTRODUCTION

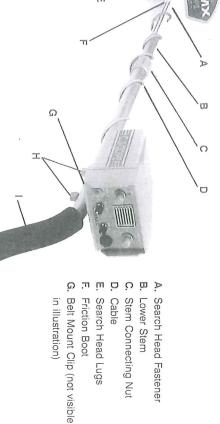
The C-Scope CS2MX combines 'turn on and go' technology with real depth to provide you with both simplicity in use yet sophistication in performance.

Important.

To protect your investment complete both sections of the enclosed guarantee card and return the reply paid portion to C-Scope. This is particularly important in order to obtain the free second year parts guarantee. Please important in order to obtain the free second year parts guarantee. Please retain the original packing box. In the event that your detector should ever designed with lasting quality in mind, high technology, and above all, value require to be serviced, this package will be most suitable for postal protection C-Scope detectors are recognised as the finest detectors available. They are for money.

The only way to realise this value is to carefully study and understand this instruction manual. You will then be able to obtain all of the advantages designed into your detector, it is also strongly recommended that you responses. order to learn to identify and understand the detector's capabilities and experiment with the detector's operations in air, with various test samples, in

Always remember that becoming a good metal detective is like becoming a good photographer or fisherman. Although it is an advantage to buy the best equipment having bought it, patience and hours of practice are needed to become proficient.



Search Head Lugs

Cable

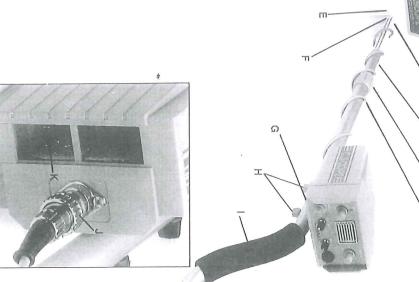
Stem Connecting Nut Lower Stem

Friction Boot

in illustration)



- Upper Stem And Handle Section
- J. Din Socket
- K. Battery Compartment



YOUR CS2MX: ASSEMBLING

Assembling your CS2MX requires no special tools Remove the inner packing that houses your CS2MX.

Inside the inner packaging you will locate two sections only:

N

- attached The top stem and handle/arm rest with the control box already
- The lower stem with the search head already attached
- Insert the lower stem into the top stem.
- end of the box Connect the jack plug at the end of the cable to the socket situated at the
- Ņ Wrap the cable neatly around the stem. The cable is longer than usual to allow belt mounting (see page 6).
- 0 When the cable has been neatly wound then hand tighten the stem with an anti-clockwise turn of the connecting nut.
- Allowing enough cable for free movement of the search head, use bottom stem cable slots to hold cable firm.

BATTERIES

use the long life alkaline type The CS2MX is powered by two PP3 (9 volt) batteries and we recommend you

The loading of the batteries has been made very simple

- Locate the battery cover situated at the end of the control box above the search head jack plug.
- Remove the battery compartment cover by gently squeezing the right hand edge towards the centre of the cover and pulling outwards.
- ω Ensuring that the positive and negative terminals are correctly located compartment. insert the batteries into the contacts and place batteries into
- 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.

Disc 1

A battery check is operated every time the CS2MX is turned on (see

Rechargeable Battery Charging

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

CONTROLS AND WHAT THEY DO:

On/off -

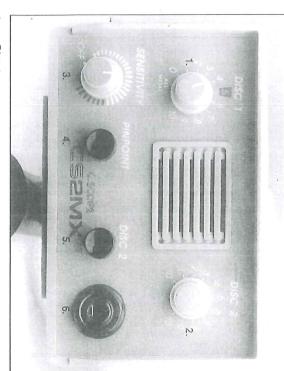
Sensitivity

performance. The control panel comprises three rotary and two push button controls. The CS2MX has been designed to offer simplicity of use with high, reliable

Sensitivity Control clockwise to the furthermost position. Once rotated into the red section, you will hear an audio threshold tone. If you do not want this tone, return the control to outside the red section. signal signifies the batteries are working properly. A weak, broken or non existent signal means you should replace the batteries. the battery check and indicates their presence and strength. A clear, sharp The CS2MX is a silent operating machine and you should rotate the When you first turn this switch clockwise, you will hear an audio tone. This is

> the level to eliminate this.
> IT IS RECOMMENDED THAT YOU OPERATE JUST OUTSIDE THE RED SECTION UNLESS CIRCUMSTANCES ALLOW OTHERWISE. interference from external radio transmissions or soil mineralisation, reduce

Operate the Sensitivity at the highest level possible but, if you experience



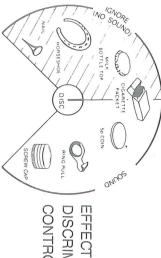
Disc 2 Disc 1

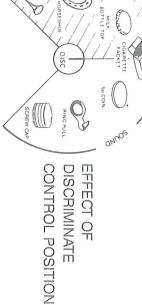
On/Off - Sensitivity

- 5 Disc 2 push select button **Pinpoint**
- 6 Headphone socket

the unit will ignore even larger pieces of aluminium paper as well as iron. At higher levels still, ring pulls will also be ignored. You must, however, realise that at this higher setting you will also lose some low denomination and silver hammered coins, so set the control only as high as is necessary to ignore At the lowest setting most iron objects are ignored. Increase the setting and as junk whilst still detecting the good objects Discrimination is a means of ignoring objects which are generally regarded In the clicked off position, the CS2MX detects all metal objects. Turned clockwise it becomes a fully variable discrimination control

iron and foil contamination (i.e. level 5 indicated by the red mark)





Disc 2

This control is identical to Disc 1 and allows you to further identify the target

signal being received.
With Disc 1 set at 5 to reject small iron and silver foil, commence searching.
Remember the CS2MX is a motion machine which means that the search nead needs to be constantly sweeping, except when in pin point mode -

You now need to set Disc 2 to ignore ring pulls.

depressing the Disc 2 push select button with the thumb of the hand holding the machine. When the ring pull signal disappears this control is set. Release Sweep the head above a ring pull and rotate Disc 2, at the same time the push button.

Your CS2MX automatically operates in Disc 1 so commence searching (see 'Sweeping" on page 8).

When you receive a signal, this indicates that the target could be a silver hammered coin, 5p, ring pull, £1, 2p or gold etc.

Depress the Disc 2 button and hold it in. Sweep the target object again. If you

are still receiving a signal, then it is likely to be any of the metal found above ring pulls, e.g. £1, 2p or gold etc.

Disc 2 gives you greater analytical skills than a single discrimination machine but, even when Disc 2 does not give a signal, still dig the target to avoid

losing silver hammered or 5p etc.

I hree points to remember:

regardless of discrimination settings.

Although Disc 1 and 2 are set to ignore metals at the same position there Large iron objects, particularly if near the surface, can produce a signal

Practice, in air, with various metal objects so you understand the detector may be slight variations in your machine and between different machines

skilful combinations of Disc 1 & 2 you will use. The following chart gives a few The more familiar you become with your CS2MX Metal detector the more ideas of setting and the conditions under which you would employ them

capabilities and responses.

		DISC SETTING	TTING	
	REF	DISC 1	DISC 2	WHEN USED
	Α	0	0	All metal detecting
	B	СЛ	0	Dig all signals
	С	ഗ	7	To analyse possible ring pulls etc (see above)
	D	O 1	10	If searching for modern currency (e.g. £1 coins) in a highly screw cap contaminated site (eg picnic area)
	т	7	,	Use on beach or picnic site which is highly ring pull contaminated.
	П	10	0	Use on same sites as above except where highly screw cap contaminated.
f4	NOTES: i)	When using refe yield silver hamr settings.	rences E & F planered coins which	When using references E $\&$ F please be sure that the search site would not yield silver hammered coins which may be ignored at these high discrimination settings.
	ii)	In reference A, y beach sites.	ou may need to	In reference A, you may need to reduce sensitivity in highly mineralised or beach sites.
	ii)	These settings a objects to ensure	re guidelines on e that you are far	These settings are guidelines only and you should practice with various known objects to ensure that you are familiar with the settings correct for your machine.

Button Disc 2 Push Select

See Disc 2 control above

Select Button Pinpoint Push

> head to be constantly moving. As stated on page 4 the CS2MX is a motion machine which requires the

unnecessary digging. When held down, the pinpoint button enables the detector to give a varying When you have located a target you must pinpoint it carefully to avoid

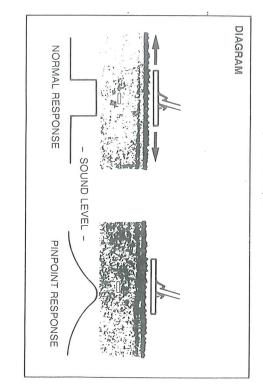
response which peaks directly above the target To pinpoint a target carry out the following procedure:

Move the search head to a known clear patch

Hold the pinpoint button down and return the head to the target area; move it slowly and listen for the peak response

irrespective of the Discriminate setting. The all metal pinpointing mode gives a positive response to all metals

even when held stationary over the object It is not necessary to sweep the target as the pinpoint mode will respond



Belt Mounting

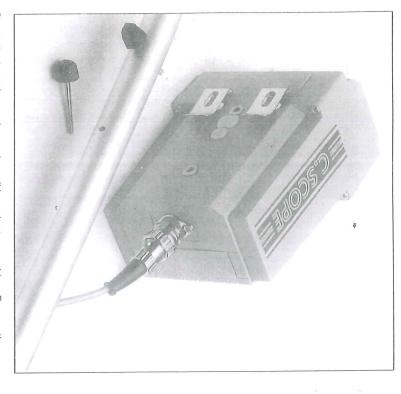
The CS2MX is an extremely light, balanced metal detector allowing you hours of fatigue free searching.

However, if you wish, you can remove the control box from the stem and clip it on to your belt. Simply remove the two retaining screws from the base and secure it to your belt using the clip.

To avoid losing the two retaining screws while the control box is belt mounted please store them securely.

You can mount the box on either your left or right hand side, depending on personal preference. The controls have been positioned to work from either side when belt mounted.

Make sure the surplus lead is wound around the stem and, allowing enough cable for free movement of the search head, use bottom stem cable slots to hold cable firm.



OPERATING YOUR CS2MX

Check the batteries are in good condition prior to searching. Frequently check the battery condition during the search. Rechargeables give little warning of failure so ensure they are fully charged prior to a long period of searching or carry a fresh set with you. (See Batteries, page 2). The unit may operate with reduced sensitivity for a period after indicating

'flat' batteries. However the batteries should be replaced or recharged at the first opportunity.

Use headphones when possible. Not only do they extend the battery life, but they also cut out extraneous noise.

(It is instructive to bury some objects in a clear patch of soil and note the response when swept at different rates with DISCRIMINATE at various levels). Large pieces of iron are difficult to ignore and may give confusing signals. An aid to determine whether the target is iron or not is to go into an all metal mode either by turning the DISCRIMINATE off or simply by pressing the PINPOINT button. Iron objects will generally give a stronger more positive signal than good objects.

When operating on the beach the all metal mode may give a response to the beach itself. If this is the case operate the unit with the DISCRIMINATE level set to the point at which it is ignored.

If in doubt as to whether a target is good or not — dig it. Your knowledge of how the detector responds will increase each time and soon make you more sure.

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

Detection Range

buried in.

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. 90% of all artefacts are found within 6" of the surface.

N.B. Adverse soil conditions can reduce 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. 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. 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.

The Importance of the Right Approach

Treasure hunting can be a profitable and 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. To achieve maximum results, it is important then to decide on your approach to any particular site in advance of the actual search.

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 area for detailed search. 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 the 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 you finding it. On the other hand, if you pegged

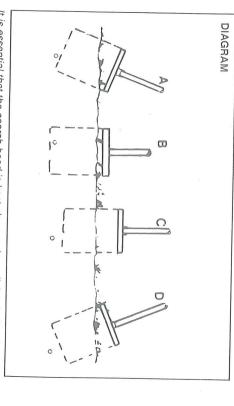
finding the ring would be much more in your favour.

Remember, BE PATIENT and WORK SLOWLY. Do not try to cover too large out the area scientifically and searched slowly and thoroughly, the odds of

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 same area twice you can start again further on without missing any ground or covering the

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

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



It is essential that the search head is kept close and parallel as in Do not hold the head too high above the ground, or at an odd angle as in A, C and D as you will be apt to miss finds.

Sweeping - For example

as you sweep from side to side. Move the coil at the rate of one foot per For extremely small object searching, such as coins, rings, nuggets, etc. lower the search coil to within one inch of the ground. Sweeping the coil from side to side in a straight line in front of you. Keep the coil at acconstant height second.

increased to two feet per second. The optimum sweep rate must be determined by each operator. After you have become familiar with the instrument the sweep rate may be

overlapping ensures that nothing will be missed. It is well to note here that the operator SHOULD NOT RUSH. This is one of the most common mistakes made by detector users. If you rush, you will not adequately cover the ground approximately two-thirds the diameter of the coil. This keeps the operator moving ahead, and it allows some overlapping of each sweep. This side in front of the operator, the search coil should be advanced closely to the ground as possible. As the detector is scanned from side to The detector should be held comfortably in the hand, with the coil held as

DETECTING AND THE LAW METAL

If the owner is not located the finder has the best rights to ownership, a later date, the finder must return the item to the owner. In the event of the Police failing to locate the owner they will probably return 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. are subject, or might be subject, to the laws of the Treasure Trove. that have recently been lost, and the second to items of gold or silver which deliberately concealed, with a view to recovery at a later date, the find comes under the laws of the Treasure Trove. If the object cannot be proved to have 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 the object to the finder. It, however, the owner makes a claim for the object at possible. The Police will then attempt to locate the owner. If they succeed in valuable, it should be handed to the Police as soon after it has been found as In the first place, where the object has been recently lost and found and is If on the other hand, the find of gold or silver can be proved to have been with the landowner with regard to the division of any finds. course, is to obtain permission beforehand and to come to some agreement The rights of the finder fall into two distinct classes. The first relates to objects

If the objects are declared Treasure Trove, the finder has no need to worry, for which the find was made usually has a better claim to ownership than the When the objects are not declared Treasure Trove, the owner of the land on the find is in a container. Obviously, if there are a hundred or so coins in a been deliberately concealed, the find cannot be declared Treasure Trove ne is rewarded with a cash settlement to the full market value of the find only one or two coins, it is more likely that they were lost accidentally. pot, they were almost certainly deliberately concealed. If, however, there are Usually this point centres around the quantity of coins in a hoard, or whether

In Scotland all newly discovered ancient objects of all metals, whether deliberately concealed or not are subject to the same procedure as Treasure Trove finds in England

Do not trespass. Ask permission before venturing on to any private land

CODE OF

CONDUCT

- N fields, and do not damage crops or frighten animals Respect the Country Code. Do not leave gates open when crossing
- ω finding the spot again replace the soil and grass carefully and even you will have difficulty in not remove the plug of earth entirely from the ground); extract the object objects buried a few inches under the ground without digging a great Do not leave a mess. It is perfectly simple to extract a coin or other small hole. Use a sharpened trowel or knife to cut a neat circle or triangle
- 4 by taking the rusty junk you find to the nearest litter bin. digging them up again next year. Do yourself and the community a favour tin cans are the last things you should throw away. You could well be Help keep Britain tidy - and help yourself. Bottle tops, silver paper and
- Çī If you discover any live ammunition or any lethal object 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.
- 0 Report all unusual historical finds to the landowner.
- 7 acquaint yourself with the practise of Treasure Trove Secretary of State for the Environment in Scotland and Wales. Also ancient monument unless permission has been obtained from the Historic Buildings and Ancient Monuments Commission in England or the Remember it is illegal for anyone to use a metal detector on a scheduled Familiarise yourself with the law relating to archaeological sites

CARE OF YOUR DETECTOR

ω Remember that when you are out with your metal detector, you are an ambassador for our hobby. Do nothing that may give it a bad name.

Storage

exterior parts of the casing should be flushed with clean fresh water, paying detector is designed to withstand rugged handling on any terrain, but mis-use or lack of due attention will tell in the end. 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 particular attention to the head, and carefully wiped dry. After using your detector in a hostile environment (salt water, sand, etc) the to remove the batteries to avoid leakage which could cause serious damage. environment. If it is not to be used for a certain length of time it is advisable When not in use your detector should be stored in a dry and warm

Salt Damage

because of salt water or spray will be charged. box with polythene be taken to avoid damage. It is therefore recommended that precautions such as covering the control 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. If you use your detector continually in a salty environment, particularly when The guarantee cannot cover such occurrences and any repairs needed

Detector Not Operating

- (a) Check the condition of batteries under load using meter. (See Battery Check Procedure).
- **b** Check that the search head is properly attached to the control box via the search head cable connector.
- 0 Interchange batteries and ensure connections are correct and secure. Battery life can vary tremendously between makes, therefore your 'new' batteries may already be insufficiently powerful to run your detector

Oscillating Signal

(a) This could be due to poor battery connections. Ensure that they are tight and the batteries are securely clipped into place.

- (b) Loose search head cable connection tighten.
- <u>0</u> Radio transmission from passing taxi or vehicle using radio transmitter equipment.

The Detector Drifts out of Tune

g.

- (a) Temperature drift caused by the change in air temperature when a machine is moved from a house or a car into the open.
- **(b)** The greater the change in temperature the more the drift, and up to 30 minutes may be needed for the electronic circuitry to acclimatize itself.
- 0 Sometimes battery drain can cause drift of signal. Replace batteries and this should help to maintain a stable signal.

INFORMATION FURTHER

If you experience any difficulty in operating your CS2MX, or have any questions on the information in your CS2MX Operating Instructions manual, please do not hesitate to phone our Customer Services Department on (0233)

Before returning a detector for repair to C-Scope ensure you have done the following:-(a)

- Read instructions thoroughly.
- <u>(</u> Tried new batteries and checked procedure outlined above Return detector with letter giving full details of fault.