



CS2MX

Operating Instructions

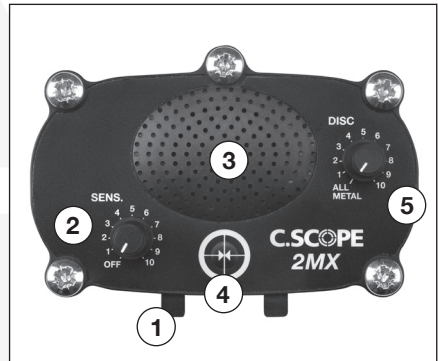
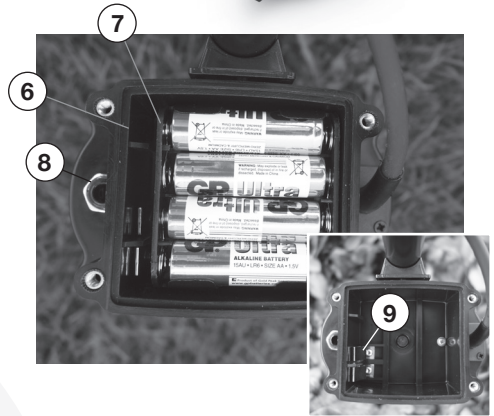
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CS2MX



Identifying the Parts

1. Control box mounting clip
2. On/Off/Sensitivity control
3. Loudspeaker
4. Pin-point push button
5. All-metal/discrimination level control
6. Battery compartment
7. 8 x AA battery holder
8. Headphone socket
9. Battery contacts
10. Control box
11. Hand grip
12. Upper stem
13. Arm support
14. Detector rest
15. Stem lock
16. Lower stem
17. Search-head
18. Search-head fixing screw and wing-nut
19. Search-head lead





Overview

The CS2MX is a high performance metal detector operating on the 'MOTION' principle. This means that the search-head must be kept moving at a steady sweep speed to achieve optimum performance.

There is a pin-point function which switches off the motion effect so that the search-head can be brought to rest over the target signal.

The discrimination system is capable of eliminating signals from a variety of metals which are likely to be valueless.

The CS2MX is designed to offer high performance whilst being easy to operate.

We wish you good hunting!

Rapid start

Follow these simple steps to start using the CS2MX within minutes:

1. Insert the lower stem into the upper stem (first press in the spring clip).
2. Twist the locking device so that the stem is locked at the required length.
3. Coil the search-head lead around the stem.
4. Remove the battery compartment cover by loosening the four retaining screws.
5. Fit 8 x AA batteries to the battery holder being careful to observe polarity and good contact.
6. Rotate the discrimination control to the '3' on the DISC dial.
7. Switch on and rotate the sensitivity control to '8' on the SENS dial.
8. START DETECTING. Metal targets give a sharp audio signal from the loudspeaker. Signals from small pieces of iron rubbish are ignored. Pressing the pin-point button means you can stop swinging the search-head from side to side and identify the exact position of the target.

The CS2MX Features and what they do

On/Off/Sensitivity.

Rotary control switches the detector on/off and adjusts the sensitivity. Ground containing mineralisation and some beach situations may cause instability or false signals requiring a reduction of the sensitivity level.

Loudspeaker (and battery condition indicator).

The presence of metal is indicated by a short tone from the loudspeaker. A distinct step change in the pitch of the audio signal indicates that the batteries should be changed.

Pin-point.

The 'motion' aspect of the CS2MX is switched off whilst the pin-point button is depressed. In pin-point mode the search-head can be held still to determine the precise target position. Pin-point mode operates in 'All Metal', i.e. whatever level of discrimination you have preset will be switched off while the pin-point button is depressed. This is a useful facility which allows you to trace around the edges of a signal to identify large pieces of iron. *(Note: very large pieces of iron, such as discarded agricultural machinery and iron stakes tend to give positive signals even when the detector is set to high discrimination settings).* Once the pin point button is released the detector returns to motion mode.

Discrimination.

Set to 'ALL METAL' there is no discrimination, i.e. all metals are detected. Set DISC control to between '1' and '4' on dial. Signals from most small iron rubbish are ignored, i.e. there is no audio signal. The discrimination level can be increased to between '4' and '10' so that the signals from more categories of metal object are ignored.' *(see 'Notes on Sensitivity, Ground Effect and Discrimination').*

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Assembling the CS2MX

The stem lock should be slackened to allow the lower stem to enter the upper stem section. The spring clip should be pressed in to allow the lower stem to slide into the upper stem. This spring clip will pop into any of the holes in the upper stem and firmly fix the two stems together. The twist lock will stop any movement in the stems. The search-head lead may then be wound around the stem as shown in the photograph. A search-head lead which is not well secured to the stem could move about causing false signals. Cable ties or tape may be used to hold the lead in position.

Adjust the position of the search-head so that it is parallel to the ground when the user is in a normal standing position. Tighten the wing-nut on the search-head retaining screw. Do not over-tighten. Friction of the head lugs against the neoprene washers keeps the search-head in position. Excessive pressure on these parts should not be necessary. *(If some form of lubricant should ever find its way onto these washers it will be necessary to disassemble the parts, wash and dry them before careful reassembly).*

Batteries

Undo the 4 battery compartment retaining screws and take out the battery holder. Fit eight good quality AA type batteries into the compartments of the battery holder. Observe polarity of the batteries (the spring contact goes against the flat, negative end of the battery). Roll the batteries in the holder to ensure good contact and replace into the battery compartment with the contacts on the holder lining up with the contacts in the compartment. Replace the battery compartment cover being careful to avoid cross threading the screws. Battery condition is monitored continuously on the CS2MX. Low battery condition is indicated by a step change in the signal tone to a higher pitch.



Detecting with the CS2MX

Successful treasure hunting starts with a well researched site.

Sweep the detector head from side to side with a steady relaxed motion.

Keep the search-head parallel and as close as possible to the ground right across the arc of the sweep. The use of a search-head cover protects the head from abrasion damage caused by friction with the ground. Search your chosen site carefully by moving forward only the width of the search-head at each sweep. Move up and down the search area in lines so that there is plenty of overlap in the ground you have covered.

Search with the sensitivity set as high as possible according to the ground conditions.

On the majority of inland sites the recommended sensitivity setting is '8' to achieve the best results. Some types of ground may give rise to false signals and the sensitivity level should be reduced to a point where operation of the detector becomes stable.

Some detector users prefer to set the sensitivity control at a point where there is no background tone, sometimes called '*silent search*'.

With the detector set like this it is more noticeable when a target signal occurs.

If the detector is set at maximum sensitivity there will be an audio tone constantly in the background and a metal target will be registered by a short increase in the intensity of that tone.

We recommend searching with a low level of discrimination (between '1' and '4').

At this setting the CS2MX will not react to small pieces of iron but will give a positive audio tone on other metal targets. Increasing the discrimination level will eliminate signals from a wider range of metal objects which are likely to be rubbish.

(See Notes on Sensitivity, Ground Effect and Discrimination).

When the detector gives a signal, move the search-head to the approximate area where the signal was heard, press the pin-point button (using your thumb is best) and move the search-head carefully around. The strongest signal will occur directly below the centre of the search-head. Dig a neat hole by cutting around the signal position with a sharp edged trowel and remove a divot of earth which might now contain the metal object. Run the detector over the area again in pin-point mode to see if the metal object is still in the hole or in the piece of earth which you have just removed. Dig some more and sift through the earth until you find what you are looking for. Fill in the hole before moving on.

The use of headphones will increase battery life and make it easier to discern faint signals.

Follow the 'Country Code'. Do not trespass. Do not touch anything you suspect might be live ammunition - inform the police.

Do not take your detector on any scheduled historic site. If you find anything which looks like it could have historical significance, report it to your local museum.

Acquaint yourself with any laws relating to the use of metal detectors particularly if you want to go detecting in countries other than the UK.

Sensitivity, ground effect & discrimination

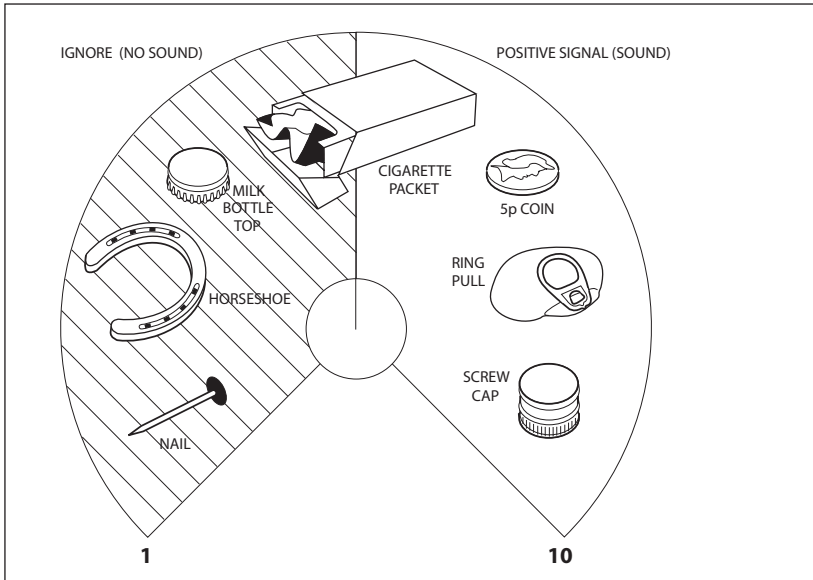
You will be able to get more performance out of your detector if you understand the relationship between three aspects of detector operation - sensitivity, ground effect and discrimination.

If you increase the power of a metal detector too much the ground itself is detected and false signals make the detector difficult to use. The 'motion' electronic system of the CS2MX will ignore many ground effect signals but some types of ground, notably waterlogged or containing salts or mineralisation require the detector to operate on reduced sensitivity.

The CS2MX can be set to ignore signals from certain categories of metal target. Small iron objects in the ground are a problem on many farmland sites. These signals can be ignored by setting the discriminate control to about number '2' on the discriminate dial.

As the control is turned clockwise the signals from more types of metal likely to be worthless can be eliminated. However, the discriminate control must be used with care because some objects which could be valuable have similar electrical characteristics to rubbish items as far as the detector can tell. Higher levels of discrimination also have the effect of reducing the depth of detection. For these reasons it is best to keep the discrimination setting as low as possible.

Effect of discriminate control position



Detector care

The CS2MX is a robust design, however the control box should be treated with similar care as any electronic product. Dry off any water splashes immediately. The search-head may be immersed in water although the connector at the other end of the lead should always be kept dry. Stem and search-head parts should be cleaned and dried at the end of a day's detecting. Do not use solvents. If the detector has been used on a beach it will be necessary to wash sand and salt residue off the stem adjustment mechanism and the search-head retaining parts using tap water. Remove batteries if the detector is going to be stored for any length of time. Do not open the controlbox front panel. There are no user serviceable parts inside and you may invalidate your warranty.

Warranty & service

Your CS2MX is guaranteed free of manufacturing defects as confirmed in our written warranty. Contact us if you have any concerns about the operation of your detector. The C.SCOPE Customer Service Team really know about metal detectors and are always ready with good advice and rapid after-sales-service.



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C.SCOPE is an ISO 9001 Accredited Quality Manufacturer.
This equipment conforms to the EMC directive 89/336/EEC.
System performance may be impaired by unusually strong electromagnetic fields.

Waste electrical products should not be disposed of with household waste.
Please recycle where facilities exist.
Check with your local authority or retailer for recycling advice.
(In the UK visit www.recycle-more.co.uk)



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