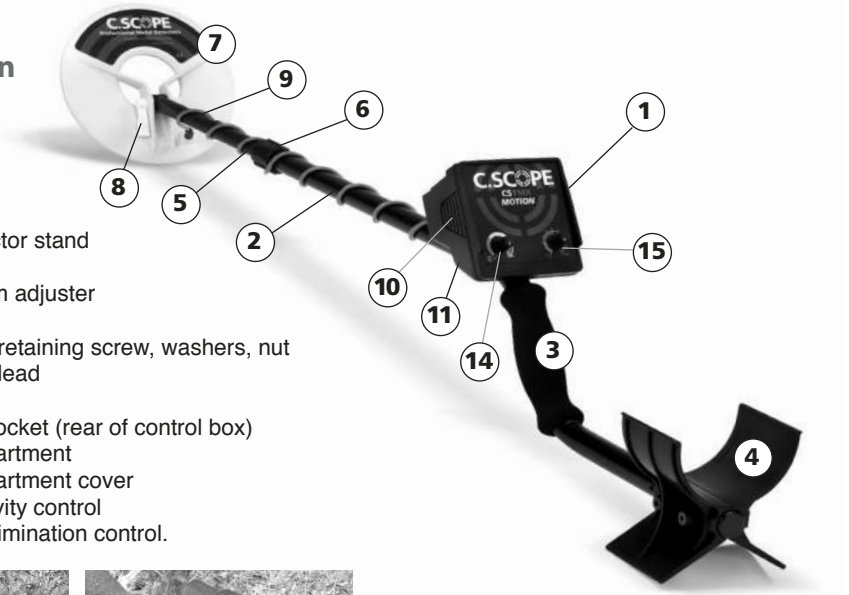
CS1MX MOTION Operating Instructions

C.SCOPE

Identification of the Parts



1. Control box
2. Main stem
3. Hand grip
4. Armrest/detector stand
5. Lower stem
6. Twistlock stem adjuster
7. Search-head
8. Search-head retaining screw, washers, nut
9. Search-head lead
10. Loudspeaker
11. Headphone socket (rear of control box)
12. Battery compartment
13. Battery compartment cover
14. On/off/sensitivity control
15. Variable discrimination control.

C.Scope CS1MX MOTION Metal Detector

The CS1MX is a lightweight professional metal detector operating on the 'MOTION' principle. Optimum performance is achieved by keeping the search-head in motion. The discrimination system can ignore the signals from some types of metal which are likely to be worthless. The CS1MX is extremely easy to use but you will be a better treasure hunter if you take the time to read this manual carefully and understand what the controls are doing.

CS1MX - Rapid get you going instructions

Assemble and adjust for length. Twist surplus lead around the stem.
Insert battery so that the terminals line up easily with the contacts in the battery compartment. (9volt MN1604, PP3 type)
Switch on and rotate Sensitivity Control (15) to the start of the green section on the scale.
Rotate the Discrimination Control (16) to the middle of the green area on the scale.
Start searching using a relaxed motion swinging the search-head from side to side as close to the ground as possible.
You are now searching in discrimination mode. The presence of a metal target will be indicated by a tone from the speaker as the search-head passes over the target. Signals from small ferrous rubbish will be ignored.

THE CONTROLS AND WHAT THEY DO

(14) The on/off/sensitivity control switches the machine 'on' and sets the sensitivity level. The detector sensitivity should normally be set at the point of threshold, that is the point at which a background tone is just about audible. The point of threshold will be found within the green area on the scale. Set the threshold point with the detector head held just above the surface of the ground. Switch the machine 'on Rotate the control further to the beginning of the green area on the scale. Set the control so that the background tone is just audible or just absent. In severe ground conditions (wet salt beach or mining areas for example) it may be necessary to reduce sensitivity to below the point of threshold in order to achieve stable operation.

(15) Variable Discrimination control. The CS1MX can ignore the signals from some metals which are likely to be worthless. Small iron objects like building nails are the main source of false signals, especially on farmland sites. The CS1MX can be set to ignore these signals so you don't waste time digging up rubbish. When the Discrimination control is at '0' this is called 'All-Metal Mode' and all metals are detected. The ground penetrating capability of the detector is greatest at this setting. Turn the control to the recommended setting (marked green on the scale 2 - 5) and signals from small iron objects are ignored. Turn the control further (5 - 10) and more classes of metal target are ignored, such as larger iron pieces and some aluminium based alloys at the top of the scale. However, high levels of discrimination are not recommended for general detecting purposes, due to the reduced depth penetration and also because some valuable items (thin section hammered coins and some rings) may fall into the same category as rubbish and not be detected.

Assembly: Join the two stem sections (5)(2) together. Wind the search-head lead (9) around the stem as shown in the photograph. Adjust the stem for length according to your height (it's easier on your back if you can stand up straight while detecting) and tighten the twistlock stem adjuster (6). Check that the search-head (7) is parallel to the ground when being swept in an arc and tighten (be careful not to over-tighten) the search-head retaining screw (8). (Keep these parts clean - if they become covered in mud or sand wash and dry these parts at the end of a day's detecting. Don't allow any form of lubricant onto the rubber friction washers.)

Battery: Push back the retaining clip and remove the cover (13) of the battery compartment (12). Fit a 9 volt battery (MN1604, PP3 or equivalent). There are guide strips to ensure the battery is fitted the right way round. Do not force the battery. It should slide in easily to connect with contact strips in the compartment. Remove the battery if the detector is to be stored for more than a few days.

Searching Technique. Sweep the detector head from side to side in a smooth arc. Move forward at each sweep the width of the search-head (20cms). Keep the search-head as close to the ground as possible, even at the ends of the arc where there is a natural tendency for the search-head to lift. Maintain a strict search pattern so that the area being searched is completely covered. (You will be more successful if you cover a small area of ground thoroughly than if you search a large area of ground in random fashion. When you encounter a signal, localise the exact target position by reducing the width of the scanning arc to just a few centimetres either side of the signal. (Do not stop the scanning action completely or the signal may die away). The CS1MX uses a 'motion' operating principle. This means that the detector operates more effectively if the search-head is kept moving. Remove the clod of earth where the signal appeared using a sharp digging tool. Check further by passing the search-head over the clod to see if the target is there or deeper in the hole. Replace the earth after recovery of the object and it should be difficult to see that the ground has been disturbed.

Do not trespass. Ask permission before searching on private land. Check for local bylaws about detecting on public land. Not all countries have such a positive attitude towards treasure hunting as we have in the UK. Observe the Country Code. Fill in all holes. Report all valuable or historically interesting finds to the appropriate authority. Do not touch any item suspected of being unexploded munitions - **mark its position and report to the police immediately.**

Accessories: Contact C.Scope or your local detector supplier for a range of C.Scope accessories.
Headphones make it easier to hear weak signals and increase battery life. The headphone socket is underneath the control box (11).
Search-head cover protects the underside of the search-head from abrasion damage extending the life of the search-head.
Rechargeable batteries. Digging Tools. Detector Bags.

Detector Care. The CS1MX 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. Stem and search-head parts should be washed with tap water and dried at the end of a day's detecting. Do not use solvents.

Warranty & Service. The CS1MX is guaranteed free of manufacturing defects as confirmed in our written warranty document. 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.

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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