Metal Detection Baton and Sweeper

USER MANUAL

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Introduction

The Garrett CSI Pro-Pointer Baton (MDBATON) is a hand-held metal detector designed to precisely pinpoint metallic (ferrous and nonferrous) objects during target recovery. The CSI Pro-Pointer is intended for use in conjunction with the ground search Garrett Metal Detection Sweeper (ECMD250) to aid in the recovery of metallic evidence (weapons, shell casings, projectiles, etc.) at crime scenes.

The CSI Pro-Pointer has both audible and vibrating alarms to indicate the presence of metal objects. The alarms increase in intensity as the baton is moved closer to the metal target. With a pinpointing tip plus a scraping blade with side-scan capability, the baton is very effective in easily detecting even the smallest of metallic objects. An LED flashlight assists in dark and low light conditions.

The CSI Pro-Pointer has an IP-66 standard waterproof rating, fully protecting it from the environment and allowing it to be washed under running water or operated in the rain. The baton's durability—based on MIL STD 810 F—will provide years of reliable operation even in rugged environments. Microprocessor circuitry allows the baton to operate at maximum sensitivity without any need of adjustments.

The CSI Pro-Pointer is ideal for the recovery of small items in a wide variety of hunting conditions, ranging from highly mineralized ground to saltwater-saturated sand. You will find the baton to be an indispensable tool to:

- Speed recovery in crime scene investigations for projectiles or other metallic evidence concealed in the ground, in trees or in walls, or in any nonmetallic object, including animals.
- Accurately find small metallic objects;
- Prevent digging large holes;
- Identify multiple objects in near proximity; and
- Locate metal objects often hidden from view in tight interior areas such as walls and ceilings.

MDBATON (116020) Components and Functions

Power Switch—To switch the detector on, press and release the power button while holding the CSI Pro-Pointer away from metallic objects. The white LED will illuminate and two brief audio beeps will occur, indicating the CSI Pro-Pointer is ready for use.

Audio and Vibrate Alerts—The speaker provides a clear audible sound whenever metal is detected. The CSI Pro-Pointer's vibrator motor also activates when a metallic target has been detected. As the CSI Pro-Pointer is moved in closer proximity to a metallic target, the rate of the pulsing audio and vibrations will increase proportionally. As the CSI Pro-Pointer is moved away from the metallic object, the rate of the pulsing audio and vibrations will decrease.

This unique Garrett feature helps the user determine the precise location of the target.

Scraping Blade—The CSI Pro-Pointer also includes a 3.75" scraping blade to aid target recovery. This rugged edge is ideal for sifting through dirt while searching for the target. The CSI Pro-Pointer's 360º side-scan metal detection allows the detector to alarm when the blade is passed in close proximity to a metallic target.

Led Light—The white LED (located next to the Power Switch) will remain illuminated while the unit is on, providing power-on indication and acting as a flashlight when needed.

The Pro-Pointer's LED light helps illuminate targets in low light.

COMPONENTS

Patent US D583,261 and Patent Pending

Holster—The convenient holster helps secure the CSI Pro-Pointer to any standard size belt.

Audible Low Battery Alert—The battery condition of the CSI Pro-Pointer is monitored continually. When the battery becomes low, the detector will sound an alternating dual-tone alarm. This sound indicates that the detector's 9V battery should be replaced as soon as possible.

Battery Cover—This cover makes changing the single 9V battery quick and easy. No tools are required. Simply rotate the battery cover counterclockwise to remove and clockwise to tighten by hand. Battery contacts are keyed to avoid improper installation of the 9V battery.

Operating Instructions

Switch the detector on by pressing the power button while holding the detector away from any metallic objects. To avoid cancelling out the target, do not turn on the CSI Pro-Pointer while it is adjacent to the target.

The white LED Light will illuminate when the CSI Pro-Pointer is on and this light will remain on until the power button is pressed again to switch off the unit. This mini flashlight feature is useful when operating in low light situations.

The CSI Pro-Pointer is a non-motion, all-metal detector. This enables you to remain stationary over a target with continuous audio and vibration response. As the CSI Pro-Pointer is moved in closer proximity to a metallic target, the rate of pulsing audio and vibrations increase proportionally—allowing precise pinpointing of the target.

Operation is completely automatic. All metals will be detected including ferrous and non-ferrous.

Basic Recovery Method

Once you have located a target with your ground search metal detector, dig the recovery hole or remove the plug of earth. You should then use the Garrett CSI Pro-Pointer to precisely locate your metallic target.

First, scan over the earth plug or dirt pile to see if your target has already been unearthed in the soil you removed or turned over. If the CSI Pro-Pointer does not signal a target, you should next scan inside the hole, pointing the tip of the CSI Pro-Pointer toward the side walls of the hole. As you move the tip of the CSI Pro-Pointer closer to the target object, the detector's vibrations and audible beeps will steadily increase.

If you do not receive a response from inside the hole or the soil/plug that was removed, the object is likely deeper in the ground or deep inside the plug—beyond pinpointing range. Sweep with your ground search detector again to confirm where the object is.

Tight Recovery Area Method

In order to minimize time spent digging for targets, it is advisable to dig the smallest hole possible. Where a tight plug of grass or soil has been lifted, check the area by pointing the CSI Pro-Pointer straight down into the opening.

If the target is located at or near the bottom of the hole, the CSI Pro-Pointer's response will steadily increase as it is lowered into the hole, reaching maximum response at the bottom. If the target is located in the hole's side wall, the response will increase and achieve its maximum response prior to reaching the bottom of the hole. The CSI Pro-Pointer then will maintain a constant response as it is lowered towards the bottom of the hole. In this case, slowly lift the CSI Pro-Pointer out of the hole until the response just begins to decrease; then scan around the sides of the hole to find the maximum response. The target should be located in the side wall at the detector's tip.

Operating Instructions (cont'd)

Side-Scan Recovery

One of the key features of the Garrett CSI Pro-Pointer detector is its side-scan detection ability. This feature allows you to quickly search a large area. Hold the CSI Pro-Pointer on its side, flat against the ground and quickly scan back and forth. Once the general location of the target is known, use the tip of the CSI Pro-Pointer to precisely locate the target. In addition, you can use the scraping blade to rake, scrape or flatten the soil while side-scanning.

Scan for your target as you scrape the soil with the scraping blade.

The CSI Pro-Pointer was used to rake through these leaves and brush to find evidence.

Water Recoveries

Another key feature of the Garrett CSI Pro-Pointer detector is that it meets IEC 60529 IP 66 dust and water-resistant standards. This allows you to search muddy and wet areas without concern of damaging your CSI Pro-Pointer. The detection portion of the detector may be submerged. It is recommended that the unit not be submerged beyond the speaker vent (just above the power switch), although momentary submergence will not damage the product.

For wall scanning with a Pro-Pointer, use the side-scan technique to quickly cover large areas.

Wall Searches

The CSI Pro-Pointer's static mode makes it an excellent utility locator to find objects hidden in tight spaces and to pinpoint projectiles that may have become embedded in a wall. Use the side-scan technique to quickly cover large areas and use the pinpointing tip to precisely locate the target.

To precisely locate a metal target, use the CSI Pro-Pointer's pinpointing tip.

Operating Instructions (cont'd)

Poaching Investigations

Fish and wildlife officers can also use the CSI Pro-Pointer to scan an animal carcass for metallic evidence that may be used to convict poachers.

Pinpointing Large Objects

When locating large metal objects—whether in the ground or in a wall—you can improve the pinpointing capability by "detuning" the CSI Pro-Pointer in order to narrow the detection field, as follows.

Slowly scan towards the object until the detector's response increases to the full/constant alarm. Then, without moving the detector, switch the power off and then back on again in order to cancel out the target and narrow the detection field. Now continue scanning towards the object to find its precise location. Repeat the power off/on cycle to further narrow the detection field as needed.

After you have finished, you can return the CSI Pro-Pointer to its normal detection field by simply switching the power off and back on while holding it away from all metal.

Maintenance

Battery Replacement

The CSI Pro-Pointer's battery condition is continually monitored automatically. When the battery is becoming low, the detector will sound an alternating dual-tone alarm. Replace the 9V battery as soon as possible by unscrewing the battery cover and tilting the detector so the battery slides out. Replace with a new 9V battery and hand-tighten the battery cover.

The battery compartment is keyed to only accept battery contact in the proper position. If a 9V battery is improperly installed, no circuitry damage will occur. However, it is important to observe the polarity of the battery and the CSI Pro-Pointer battery compartment to ensure operation. Never force the cover to close.

Remove the battery when the CSI Pro-Pointer is to be stored for more than 30 days.

Note:

Do not affix metallic labels (or any material that might cause the detector to alarm) to the detection area of the CSI Pro-Pointer. Doing so might cause an imbalance within the detection field and thereby reduce scanning effectiveness.

Cleaning Your Pro-Pointer

To remove dried dirt, mud or other debris from your CSI Pro-Pointer, simply hand-clean it with soap and water and a soft cloth. Rinse with running water. Do not use any type of abrasive or chemical cleaners which could scratch or erode the surface of your detector. The CSI Pro-Pointer is water resistant; however, avoid spraying water directly into the speaker grill and do not submerge the entire detector in water.

Specifications

Model Name: 116020

Operating Temperatures:
35ºF (-37ºC) to 158ºF (70ºC)

Operating Frequency: 12 kHz

Water and Dust:
Meets IEC 60529 IP 66 standards

Tuning: Automatic

Indicators: Proportional audio/ vibration pulse rate

Controls: Power switch

Dimensions:
Length: 9" (22.9cm)

Thickness: 1.5" (3.8cm)
Tapered to .875" (2.2cm)

Weight (w/battery)**:** 7 oz. (0.2kg)

Battery: Single 9V (included)

Battery Life:
Carbon: 16 hours
Alkaline: 30 hours
Rechargeable: 8 hours

BATTERY ACCESSORY

Rechargeable Battery Kit: includes two (2) Cadmium free NiMH batteries and charger

110V—MDBatonCharger110

220V—MDBatonCharger220

The CSI Pro-Pointer is manufactured in the United States of America in accordance with ISO 9001 internationally certified Quality Management System. This product meets the following international standards:

529—IP 66 ICNIRP

Service Info

See WARRANTY on back page for information regarding types of services covered and how to obtain the required RMA (Return Merchandise Authorization) number.

NOTE: *All items returned must be properly packaged and insured prior to shipment.* Be certain to pack the Pro-Pointer carefully and include full details concerning its problem as well as the required RMA number for returned merchandise, your name, address and telephone number. *Item must be accompanied with proof of date of purchase.*

ECMD250 (1140070) Components and Functions

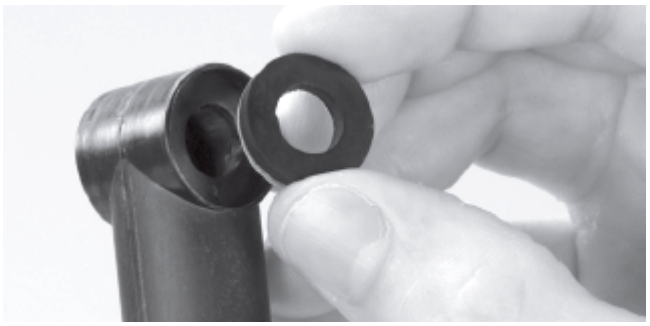
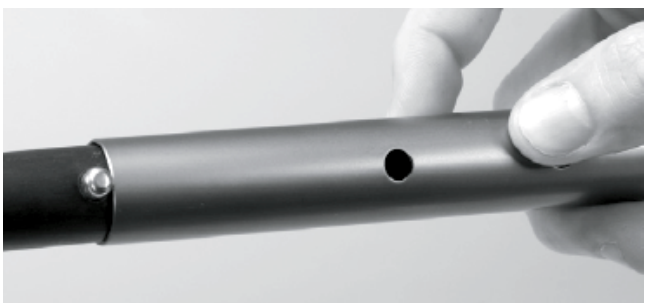
Parts

No tools are required to assemble the ECMD250. Four (4) AA batteries are included with the detector.

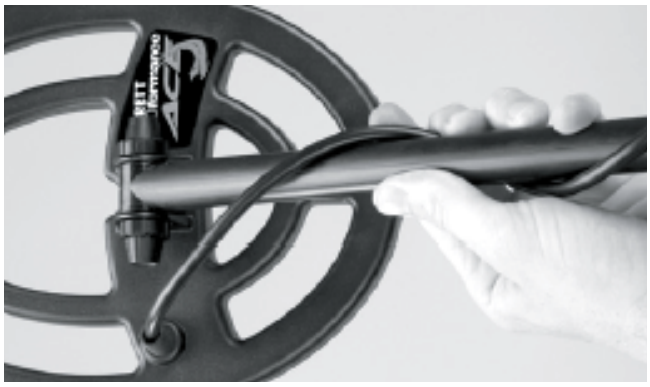
Before assembling your metal detector, make certain you have the complete set of parts. If you are inadvertently missing any of the following, please contact SIRCHIE Customer Service at (919) 554-2244:

A. Control Housing with S-shaped Ramrod Stem and Arm Cuff
B. Upper Stem and Lower Stem
C. One (1) Wing Nut
D. Two (2) Mounting Washers
E. One (1) Threaded Bolt
F. Searchcoil with Cable
G. CSI Carrying Case
H. Headphones
I. Warranty Card
J. Instruction Manual

Assembly

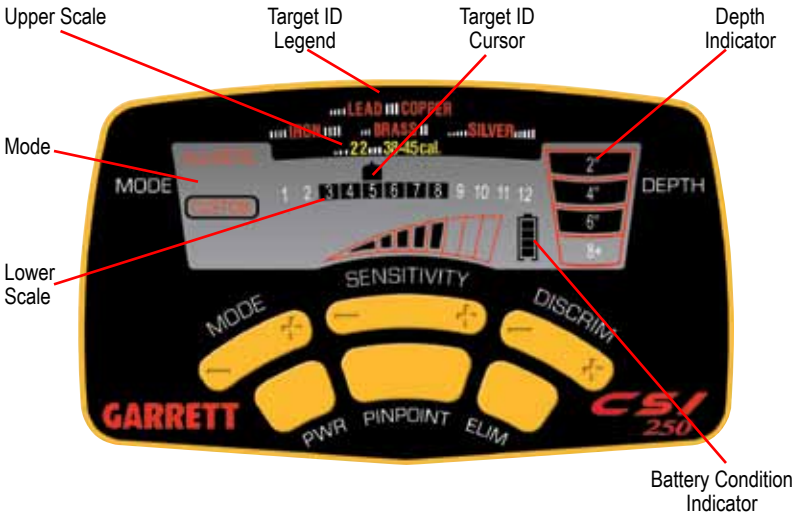
1. Press the two Mounting Washers into the Lower Searchcoil Assembly with the remaining Wing Nut.	
2. Slide the Searchcoil onto the Stem.	
3. Insert the Threaded Bolt through the holes of the Lower Stem and Searchcoil. Hand-tighten the Searchcoil assembly with the remaining Wing Nut.	
4. Depress the Spring Clip and insert the Control Housing into the Upper Stem.	
5. Depress the Spring Clip in the Lower Stem to adjust to the most comfortable operating length.	

Assembly (cont'd)

6. Wrap the Searchcoil cable snugly about the stem with the first turn of the cable over the stem.	
7. Insert the Cable into the Connector of the Control Housing and hand-tighten.	
8. The location of the Arm Cuff may be adjusted by removing the screw on the bottom and rotating the Arm Cuff 180°.	

Operating Instructions

The ECMD250 is designed with SIRCHIE's exclusive Graphic Target ID Technology, which indicates the probable identification of a target along a horizontal scale. This reads from low conductive metals on the left to high conductive metals on the right (e.g. iron to silver).



Mode—Indicates which detection mode is selected by highlighting the corresponding word on the LCD.

Target ID Legend—A Target ID Legend is located directly above the LCD screen and indicates commonly found crime scene targets and metals. When a target is detected, the Target ID Cursor will appear below the word that most likely indicates the type of target found based on its conductivity.

Target ID Cursor—The Target ID cursor is illuminated in the Upper Scale and indicates the probable identity of a detected target.

Lower Scale—The lower horizontal scale, or Notch Discrimination Scale, indicates the discrimination pattern where the ECMD250 will or will not produce an audible signal when a target is located. This scale can be modified in both detection modes. No audible signal will be produced when a target is located where a notch is present (those regions of the Lower Scale where no segments are visible).

Depth—The depth of a .38 caliber bullet, or similar sized target, will be shown on the LCD screen. Depth is indicated when the LCD scale is illuminated at 2", 4" or 6" or 8+ inches. Sweep over the target with the Searchcoil 1" from the soil to get the most accurate reading. Note: Targets larger than a .38 caliber shell cartridge may display shallower than actual depth while targets smaller than a .38 caliber cartridge may display deeper than actual depth.

Battery Condition Indicator—An LCD battery graphic is continuously illuminated to indicate battery level.

NOTE: For best performance, replace old batteries with quality alkaline AA batteries. NiMH rechargeable batteries may be used, but will have a shorter life per charge. You can expect 20 to 40 hours of operation depending on battery type.

Access and replace the batteries by gently sliding the cover off the control housing. Remove batteries from the ECMD250 when the unit will be stored for longer than 30 days.

Headphone Jack—Headphones with a 1/4" plug can be inserted into the jack found on the reverse side of the Control Housing. Headphones mask external noise, such as traffic, and may enable you to better identify a target based on its audible signal.

Operating Instructions (cont'd)

Tone ID—The ECMD250 makes three (Low, Standard, Bell) audible tones when a target is detected. These tones, which are determined by the metal's conductivity, provide additional information about your target.

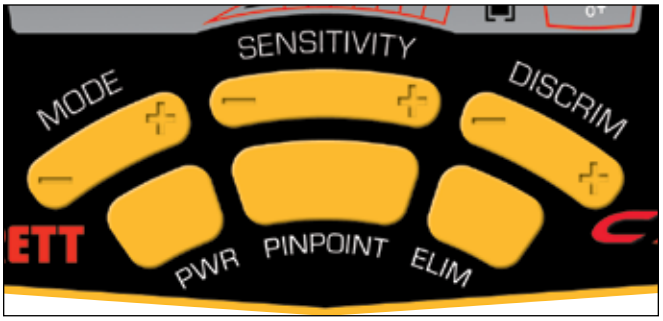
For example: A steel-core projectile may be indicated with a Low Tone; a .22-casing may produce a standard tone and 9mm copper projectile may be identified with a belltone.

Be sure to listen carefully to the tone of each target during your bench tests. With experience, you will begin to recognize the different tones the ECMD250 makes when hunting as well as the type of targets they identify.

NOTE: Virtually every U.S. coin will be identified with the belltone feature.

Numeric Reference Scale—The numbers 1-12 are shown on the Lower Scale of the LCD and serve as a visual reference guide for detected targets based on the target's conductivity. You can use this guide as an additional way to determine where similar targets appear on the LCD.

Pushbuttons/Controls



PWR—Press and release the PWR (Power) pushbutton to turn the detector ON and OFF. NOTE: After turning detector OFF, wait 3 to 5 seconds before turning the unit ON again.

The PWR (Power) pushbutton can also be used to reset all settings to factory preset by pressing and holding for 5 - 10 seconds, or until the detector beeps twice.

MODE—Press the MODE pushbutton to select one of two desired detection modes:

ALL-METAL Mode—This is the ECMD250's factory default mode and is designed to detect every type of metal (i.e. no discrimination or type of metals eliminated). It is the most effective mode when the exact materials of a desired object are unknown.

CUSTOM Mode—This Mode can be programmed solely by the operator. The CUSTOM mode is factory preset with the same settings as the ALLMETAL Mode. Using the DISCRIM and ELIM push buttons, an operator can modify the Notch Discrimination settings to individual specifications. These modifications will be retained in the CUSTOM Mode when the ECMD250 is turned OFF.

The CUSTOM Mode can be used to find specific metal items and ignore other types of metals. For example: If an earring has been lost, scan the matching earring with the ECMD250 while in the CUSTOM mode. Note where the target ID cursor appears on the Upper Scale when the earring is scanned.

Next, use the (+) and (-) on the DISCRIM pushbutton to move the Target ID cursor to the left and right. Press the ELIM button to delete the segments on the Lower Scale where the target was not detected. Leave only the segment where the Target ID cursor is illuminated when the earring was scanned. The ECMD250 is now programmed to find only the missing earring based on the conductivity of its matching pair.

ELIM can also be used to modify the Notch Discrimination Scale to reject a specific type of trash while detecting all other metal. When a trash metal is detected while searching, simply push the ELIM button to create a notch where the Target ID cursor signaled the presence of the trash. The next time the ECMD250 encounters the same trash item, it will not produce an audible signal.

NOTE: Make certain that you do not create an elimination notch that would correspond to the target you are seeking.

PINPOINT—Press and hold the Pinpoint pushbutton to determine the exact location of a target that is still hidden in the ground, wall or other structure. This allows the Searchcoil to remain stationary in order to pinpoint the location of the target.

Operating Instructions (cont'd)

DISCRIM—Use the (+) or (-) on the DISCRIM (Discrimination) pushbutton to move the Target ID cursor to the left or right. Next, use the ELIM Pushbutton to modify the discrimination pattern on the Lower Scale.

ELIM—Press the ELIM (Eliminate) pushbutton to eliminate or activate the LCD segment located on the Lower Scale, directly below the Target ID cursor.

The ELIM function can be used to modify each Mode's discrimination patterns. For example, when an unwanted target is located while searching, press the ELIM pushbutton to create a Notch (delete the segment) on the Lower Scale. This will eliminate the audible signal when that specific target is encountered again.

NOTE: All Notch Discrimination modifications made while in the CUSTOM mode using the ELIM pushbutton will be retained when the detector is turned OFF. The detector will resume searching with the changes made in the CUSTOM mode when the detector is turned back ON.

However, all changes made to the Notch Discrimination scale using the ELIM pushbutton while in the ALL-METAL mode will not be saved. The detector will resume hunting in the factory preset ALL-METAL Mode when turned back ON.

SENSITIVITY—Press the SENSITIVITY button to step through the eight (8) sensitivity levels, which are continuously shown on the LCD screen. Always use higher sensitivity levels, especially when searching for very small or deep targets.

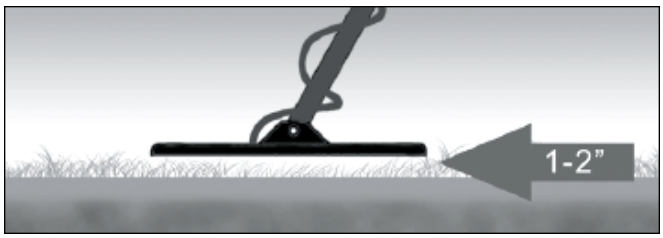
Use lower sensitivity levels only in locations where the detector is behaving erratically due to excessive metallic trash interference, high mineral soils, saltwater beaches, the presence of other metal detectors, or there is nearby electrical interference such as power lines.

Searching with the ECMD250

Your ECMD250 is a highly sophisticated, yet easy to operate metal detector. To search a crime scene, simply press the PWR pushbutton and begin searching in the factory preset ALL-METAL mode. This mode will allow you to detect every type of metal object. Using this preset ALL-METAL mode is particularly beneficial especially when you are unsure of the exact type of weapon or metallic evidence you are seeking.

Proper Scanning Techniques

Swing the Searchcoil back and forth in front of you in a straight line with a sweep speed of about 3 to 5 feet per second while walking forward at a rate of about 1/2 to 1 foot per second. Maintain your Searchcoil at a constant height of about 1 to 2 inches above the ground. When a target is detected it will be audibly and visually indicated by the detector.

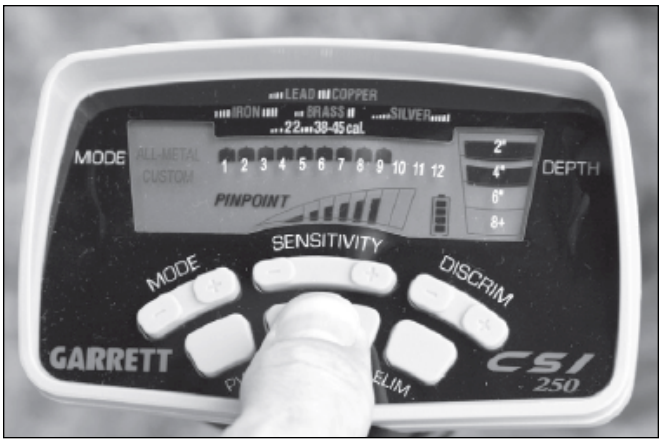


Operating Instructions (cont'd)

Electronically Pinpointing A Target

When you have detected a target, place the coil on the ground to the side of the target's suspected location, then press and hold the PINPOINT pushbutton. Move the coil left to right, then front to back; the maximum sound will be heard when the target is directly beneath the center of the Searchcoil.

Also, when electronically pinpointing, the Upper Scale on the LCD Screen indicates signal strength. When the greatest number of LCD segments (increasing left to right on the scale) is shown, the center of the Searchcoil is directly over the target with the depth of the target shown on the depth scale.



Manually Pinpointing A Target

As an alternative to electronic pinpointing, as just described, you can also manually pinpoint targets by not depressing the Pinpoint pushbutton . Simply draw an imaginary "X" on the ground with the Searchcoil where maximum sound occurs. You'll notice that the Searchcoil must be moving and that you cannot maintain detection sound with the Searchcoil held completely still above the target.

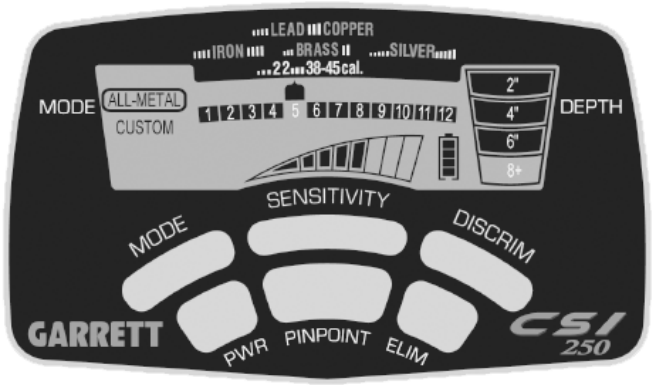
Making Adjustments

Discrimination

When your ECMD250 is turned ON for the first time, it will begin operating in the ALL-METAL mode. This means that you will be searching using no discrimination adjustments. Many investigators may never require any discrimination adjustments. However, you can make adjustments by using the ELIM and DISCRIM pushbuttons for specific requirements.

The Lower Scale on the graphic display contains 12 segments. The illuminated segments represent conductivities of the targets that will be detected with an audible signal. Likewise, the absence of an illuminated segment (i.e. notch) on this Lower Scale will suppress an audible signal when a target with this conductivity is detected.

Method 1—Pass the Searchcoil over an object to be accepted or rejected as a target. Or, pass the particular target across the face of the Searchcoil about two inches from its surface. If the segment is displayed on the Lower Scale, that particular target will be detected. If you want to reject that type of target, press the ELIM pushbutton. The segment on the Lower Scale will disappear, creating a "reject notch". If the Lower Scale segment is not displayed, press the ELIM pushbutton to illuminate it, creating an "accept notch" and your ECMD250 will begin signaling targets represented by that segment.



Method 2—Press the + or – DISCRIM pushbutton to position the Upper Scale cursor above the Lower Scale segment corresponding to the target to be detected or ignored. Determine the target you would like to accept or reject and press the ELIM pushbutton.

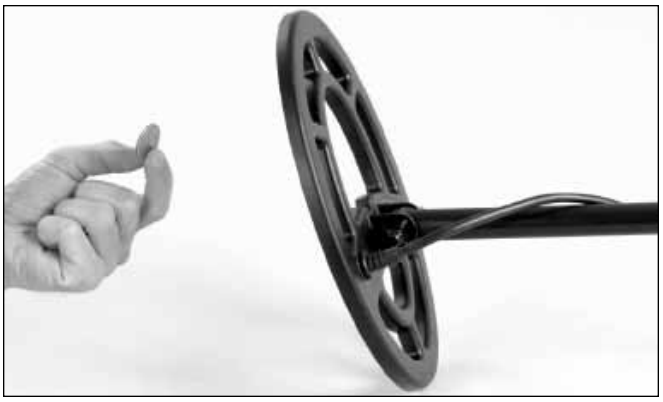
Sensitivity

The ECMD250 has 8 sensitivity settings for achieving maximum depth. However, you many not always be able to operate at full sensitivity. Electromagnetic interference, irregular ground mineralization and other environmental conditions may sometimes require that you operate at reduced detection sensitivity.

Operating Instructions (cont'd)

Use the + and -Sensitivity pushbuttons to adjust sensitivity to the appropriate level, usually as high as possible while maintaining stable operation.

Bench Test



As you operate the ECMD250 you will quickly grow more efficient in its use. You can also conduct bench tests to become more familiar with your detector's operation. To conduct a bench test:

1. Place the Searchcoil on a flat, non-metallic surface that's several feet from other metallic objects.
2. Select the ALL-METALMode as well as experiment with various discrimination patterns.
3. Pass various sought-after metal objects (bullets, casings, knives, etc.) across the Searchcoil at a distance of one to two inches. Your metal detector will audibly and visually identify the target. target. These differences in tone are related to the conductivity of the detected target. Low tones indicate low conductivity targets such as iron; standard tones indicate targets like a .22-casing; and a belltone indicates high conductivity targets such as silver coins, etc

Test Plot Construction

Also, it is suggested that you develop a "test plot" to see how various targets appear on the LCD. This test plot will also prove invaluable in training others to use the metal detector. After you select an area for your test plot, scan it thoroughly and remove all metal from the ground.

Next, select targets such as .22 caliber bullets, .38 caliber shell casings, a dummy pistol, knife, bottlecap, nail and pulltab or other targets. Place the targets at varying depths. Be sure to listen carefully to the tone of each target during your test plot. With experience, you will begin to recognize the different tones the ECMD250 makes when hunting as well as the type of targets they identify.

Troubleshooting

SYMPTOM	SOLUTION
No Power	1. Ensure batteries are installed in the correct position.
	2. Replace all old batteries with all new batteries
Erratic Sounds or Target ID Cursor Movement	1. Ensure your Searchcoil is securely connected and the coil cable is tightly wound around the stem.
	2. Ensure you are not using the detector indoors where excessive amounts of metal are found.
	3. Reduce your sensitivity setting.
	4. Determine if you are close to other metal detectors or other metal structures such as electrical power lines, wire fences, benches, etc. (NOTE: Iron targets may cause erratic sounds or Target ID Cursor movement. You can identify iron targets in an All-Metal Mode)
Intermittent Signals	Intermittent signals typically mean you've found a deeply buried target or one that is positioned at a difficult angle for your detector to read. Increase the sensitivity on your detector and scan from different directions until the signal becomes more definite. In the case of multiple targets switch to the All-Metal Mode or press PINPOINT to precisely locate all targets. (NOTE: Iron targets may cause Intermittent Signals. You can identify iron targets in an All-Metal Mode).
I'm not finding specific targets	Ensure you are using the correct mode for the type of searching you are doing. Use the All-Metal mode, which detects all metal targets to ensure desired targets are detected.
Target ID Cursor Bounces	If your Target ID Cursor bounces erratically, chances are you've found a trash target. However, a Target ID Cursor may bounce if a good target (such as a knife) is not parallel to the Searchcoil (e.g. on edge). It may also bounce if there is one or multiple "junk" targets laying next to the good target. Scan from different directions until your Target ID Cursor becomes more stable.

Maintenance

Your SIRCHIE Metal Detection Sweeper is a rugged machine, designed for outdoor use. However, as with all electronic equipment there are simple ways you can care for your detector to maintain its high performance.

- Avoid extreme temperatures as much as possible, such as storing the detector in an automobile trunk during the summer or outdoors in sub-freezing weather.
- Keep your detector clean. Wipe the control housing with a damp cloth when necessary.
- Remember your Searchcoil is submersible, but your control housing is not. Never submerge the control housing in water.
- Protect your control housing from heavy mist, rain and blowing surf.
- Disassemble the stem, and wipe it and the Searchcoil clean with a damp cloth. Be sure not to submerge the connector.
- When storing for longer than one month, remove the batteries from the detector and from their holders as well.
- Always use high quality alkaline batteries. When changing old batteries be sure to replace with all new batteries for optimum performance.

Specifications

Model Name: 1140070

Operating Temperatures:
0°F (-17°C) to 130°F (54°C)

Storage Temperature: -20°F (-28°C) to 150°F (65°C)

Length: 42” to 51” (1.06m to 1.29m)

Touchpad Controls: Power,Pinpoint, Elim (Eliminate), Discrim (Discriminate), Sensitivity, Mode

Arm Cuff: Adjustable, with strap

Weight of unit: 2.7 lbs. (1.2kg)

Shipping Weight: 5.9 lbs.(2.6kg)

Shipping size: 22” x 5.25” x 11” (55cm x 13.3cm x 28cm)

Batteries: Four(4) AA batteries provide up to 25 hours of operation. Optional NiMH rechargeable batteries provides between 6 and 8 hours on each 12 hour recharge)

The Metal Detection Sweeper is manufactured in the United States of America in accordance with ISO 9001 internationally certified Quality Management System. This product meets the following international standards:

529—IP 66 ICNIRP

Service Info

See WARRANTY on back page for information regarding types of services covered and how to obtain the required RMA (Return Merchandise Authorization) number.

NOTE: *All items returned must be properly packaged and insured prior to shipment.* Be certain to pack the Metal Detection Sweeper carefully and include full details concerning its problem as well as the required RMA number for returned merchandise, your name, address and telephone number. *Item must be accompanied with proof of date of purchase.*

Accessories

SIRCHIE offers a complete line of ECMD250 accessories. These accessory products are available by calling Customer Service at 919-554-2244.

ECMD250Sniper (1140070)

4.5" Sniper Searchcoil—Use when searching for small, shallow targets in trashy or tight places.

ECMD250Coil (1140070)

9" x 12" Searchcoil—Use this Searchcoil to obtain greater coverage when searching large areas.

ECMD250DD (1140070)

8.5" x 11" DD Searchcoil—DD configuration provides greater detection depth and performance in mineralized ground.

ECMD250Cover (1140070)

6.5" x 9" Searchcoil Cover—Use this cover to protect your Searchcoil from rough and damaging ground surfaces.

Kit Information

SERIAL NUMBER: _____

PURCHASE DATE: _____

CONTACT PERSON: _____

Limited Warranty

SIRCHIE warrants to the original purchaser that the *CSI Pro-Pointer and Metal Detection Sweeper* shall be free from all defects, both in materials or workmanship, for a period of twelve (12) months from the date of shipment to the purchaser. At its option, SIRCHIE will repair or replace any *CSI Pro-Pointer and Metal Detection Sweeper* or part(s) that prove to be defective, free of charge including shipping cost to purchaser during the stated warranty period.

This limited warranty shall not apply if the *CSI Pro-Pointer and Metal Detection Sweeper* and/or any part has been damaged or caused to be defective by unreasonable use, accident, negligence, service or modification by anyone other than SIRCHIE or a SIRCHIE authorized agent, or by any causes unrelated to defective materials or workmanship. Additionally, this warranty does not apply to batteries or damage caused by their failure.

NOTICE

The original purchaser must return the Owner Registration Card furnished with the *CSI Pro-Pointer and Metal Detection Sweeper* to SIRCHIE as condition precedent to warranty coverage and performance. The warranty registration card must be received within thirty (30) days of the shipment date to the original purchaser to validate the warranty.

To receive in-warranty service, a defective *CSI Pro-Pointer and Metal Detection Sweeper* and/or any part must be received at SIRCHIE no later than one (1) week after the end of the warranty period and must be accompanied with proof of date of purchase satisfactory to SIRCHIE. A RMA (Return Merchandise Authorization) number issued by SIRCHIE must accompany all returned items. To obtain a RMA number and information for return shipment contact SIRCHIE Customer Service, 100 Hunter Place, Youngsville, NC 27596, (919) 554-2244. All items returned must be properly packaged and insured prior to shipment. SIRCHIE assumes no liability for loss or damage incurred during shipment to SIRCHIE.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state (or jurisdiction to jurisdiction). All expressed and implied warranties for the *CSI Pro-Pointer and Metal Detection Sweeper,* including, but not limited to, any implied warranties and conditions of merchantability and fitness for a particular purpose, are limited in time to the term of the limited warranty period.

SIRCHIE's warranty obligations and purchaser's remedies thereunder are solely and exclusively as stated herein. In no case will SIRCHIE be liable for consequential damages or any loss incurred because of interruption of service.