

ACCESSORIES

Carry Bag\$ 29.95

Rugged double-stitched construction
CBAG2

Pouch & Digger Combo\$ 24.95

Pouch with 2 large pockets & 9" heavy duty digging tool. TPKIT-W

Bounty Hunter Stereo Headphones.....\$ 39.95

Use with Bounty Hunter metal detectors. Lightweight and adjustable with true stereo sound, adjustable volume, 1/8 jack with 1/4 adaptor, 4' cable. HEAD-W

Pin Pointer\$ 69.95

Pinpoints the exact location of buried metal objects. Audio signal indicator and vibrator. Runs on 1 – 9-Volt Battery. PIN POINTER-W

Sand Scoop.....\$ 24.99

Large scoop with filtering holes. Made of strong plastic. SAND SCOOPBH

Replacement Search Coil

7" Standard Coil (replacement) - 7COIL-EX.....\$ 49.95

9" Heavy-Duty Digging Tool.....\$ 10.95

Metal blade with comfortable plastic handle and depth gauge TROWEL-2

Digging Tool\$ 7.95

Light and practical wide blade digging tool. TROWEL-W

Bounty Hunter Apron.....\$ 5.95

Natural canvas with 2 large pockets. APRN-BH

Bounty Hunter T-Shirt\$ 19.99

100% cotton with Bounty Hunter® Logo. Sizes – LG, XL & XXL

Bounty Hunter Baseball Cap\$ 14.95

One size fits all, with Bounty Hunter® logo.

Gold Prospecting Kits

	Gold Kit PART NUMBER: GOLDKIT1 \$ 29.99	Deluxe Kit PART NUMBER: GOLDKIT2 \$ 59.99	Hardrock Kit PART NUMBER: GOLDKIT3 \$ 109.99
Items Included:			
10 1/2" Gold Pan	x	x	x
14" Gold Pan	x	x	x
Classifier		x	x
2 – Shatterproof Vials	x	x	x
Snuffer Bottle	x	x	x
Black Sand Magnet		x	x
Treasure Scoop		x	x
Tweezers			x
Magnifier			x
Crevice Tool			x
Rock Pick			x
Instruction Booklet	x	x	x
Backpack		x	x

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MDISC11

Rev.2

013111

Discovery 1100TM

by BOUNTY HUNTER®

OWNER'S MANUAL

The Discovery 1100 is an easy to use detector. The most difficult aspects of metal detecting have been automated.

However, if you are new to the hobby, we strongly recommend that you:

- 1) Adjust the Sensitivity to a low setting in the event of false signals.** Always begin use at a reduced sensitivity level; increase to full sensitivity after you have become familiar with the detector.
- 2) Do not use indoors.** This detector is for outdoor use only. Many household appliances emit electromagnetic energy, which can interfere with the detector. If conducting an indoor demonstration, turn the sensitivity down and keep the searchcoil away from appliances such as computers, televisions and microwave ovens. If your detector beeps erratically, turn off appliances and lights (especially those with dimmer switches).

Also keep the searchcoil away from objects containing metal, such as floors and walls.
- 3) Read this manual.** Most importantly, review the **Quick-Start Demo** (p.7) and **Basic Operation** (pp. 9-12).
- 4) Use 9-volt ALKALINE batteries only.** Do not use Heavy Duty Batteries.

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TREASURE HUNTER'S CODE OF ETHICS:

- Always check Federal, State, County and local laws before searching.
- Respect private property and do not enter private property without the owner's permission.
- Take care to refill all holes and leave no damage.
- Remove and dispose of any and all trash and litter found.
- Appreciate and protect our inheritance of natural resources, wildlife and private property.
- Act as an ambassador for the hobby, use thoughtfulness, consideration and courtesy at all times.
- Never destroy historical or archaeological treasures.
- All treasure hunters may be judged by the example you set; always conduct yourself with courtesy and consideration of others

5-YEAR LIMITED WARRANTY

The *Discovery 1100* metal detector is warranted against defects in materials and workmanship under normal use for five years from the date of purchase to the original owner.

Damage due to neglect, accidental damage, or misuse of this product is not covered under this warranty. Decisions regarding abuse or misuse of the detector are made solely at the discretion of the manufacturer.

Proof of Purchase is required to make a claim under this warranty.

Liability under this Warranty is limited to replacing or repairing, at our option, the metal detector returned, shipping cost prepaid to First Texas Products. Shipping cost to First Texas Products is the responsibility of the consumer.

To return your detector for service, please first contact First Texas for a Return Authorization (RA) Number. Reference the RA number on your package and return the detector within 15 days of calling to:

First Texas Products L.L.C.
1465-H Henry Brennan Dr.
El Paso, TX 79936
Phone: 915-633-8354

NOTE TO CUSTOMERS OUTSIDE THE U.S.A.

This warranty may vary in other countries, check with your distributor for details. Warranty does not cover shipping costs.

According to FCC part 15.21 Changes or Modifications made to this device not expressly approved by the party responsible for compliance could void the users authority to operate this equipment.

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BOUNTY HUNTER®
METAL DETECTORS

1465-H Henry Brennan • El Paso, TX 79936 • (915) 633-8354

TROUBLESHOOTING

TROUBLESHOOTING GUIDE

SYMPTOM	CAUSE	SOLUTION
Detector chatters or beeps erratically	<ul style="list-style-type: none"> Using detector indoors Using detector near power lines Using 2 detectors in close proximity Highly oxidized buried object Environmental electromagnetic interference 	<ul style="list-style-type: none"> Use detector outdoors only Move away from power lines Keep 2 detectors at least 20' apart Only dig up repeatable signals Reduce sensitivity until erratic signals cease
Constant low tone or constant repeating tones	<ul style="list-style-type: none"> Discharged batteries Wrong type of batteries 	<ul style="list-style-type: none"> Replace batteries Use only 9V alkaline batteries or rechargeable
LCD does not lock on to one target ID or detector emits multiple tones	<ul style="list-style-type: none"> Multiple targets present Highly oxidized target Sensitivity set too high 	<ul style="list-style-type: none"> Move coil slowly at different angles Reduce sensitivity
No power, no sounds	<ul style="list-style-type: none"> Dead batteries Cord not connected securely 	<ul style="list-style-type: none"> Replace batteries Check connections

TERMINOLOGY

The following terms are used throughout the manual, and are standard terminology among detectorists.

ELIMINATION

Reference to a metal being "eliminated" means that the detector will not emit a tone, nor light up an indicator, when a specified object passes through the coil's detection field.

DISCRIMINATION

When the detector emits different tones for different types of metals, and when the detector "eliminates" certain metals, we refer to this as the detector "discriminating" among different types of metals. Discrimination is an important feature of professional metal detectors. Discrimination allows the user to ignore trash and otherwise undesirable objects.

RELIC

A relic is an object of interest by reason of its age or its association with the past. Many relics are made of iron, but can also be made of bronze or precious metals.

IRON

Iron is a common, low-grade metal that is an undesirable target in certain metal detecting applications. Examples of undesirable iron objects are old cans, pipes, bolts, and nails.

Sometimes, the desired target is made of iron. Property markers, for instance, contain iron. Valuable relics can also be composed of iron; cannon balls, old armaments, and parts of old structures and vehicles can also be composed of iron.

FERROUS

Metals which are made of, or contain, iron.

PINPOINTING

Pinpointing is the process of finding the exact location of a buried object. Long-buried metals can appear exactly like the surrounding soil, and can therefore be very hard to isolate from the soil.

PULL-TABS

Discarded pull-tabs from beverage containers are the most bothersome trash items for treasure hunters. They come in many different shapes and sizes. Most pull-tabs can be eliminated with the Mode Control, but some other valuable objects can have a magnetic signature similar to pull-tabs, and will also be eliminated when discriminating out pull-tabs.

GROUND BALANCE

Ground Balancing is the ability of the detector to ignore, or "see through," the earth's naturally occurring minerals, and only sound a tone when a metal object is detected.

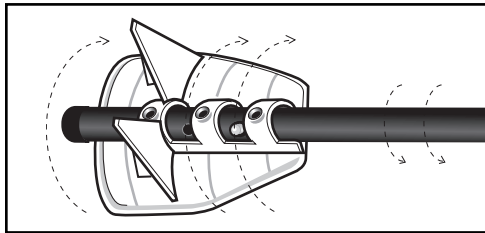
ASSEMBLY

Adjusting the Arm Rest

Most people will find the standard position of the armrest very comfortable. Very large forearms and short forearms (particularly children's arms), can be accommodated by moving the armrest forward.

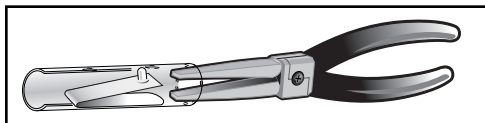
The armrest is adjustable to three positions.

To adjust, remove the screw from the underside, then press the silver button and move the arm rest to one of the alternate positions. If you cannot fully depress the button with your finger, use a narrow object, such as the blunt end of a ballpoint pen. The arm rest must be twisted with moderate force to move it to an alternate position; this adjustment is usually made infrequently.



If desired for added stability, re-install the screw. The screw is not re-installed in the furthest forward position.

If the button becomes disengaged inside of the tube, remove the plastic cap at the end of the tube to access the clip inside. With a pair of needle-nose pliers, reengage the button. Then replace the plastic cap.



IN THE FIELD TECHNIQUES

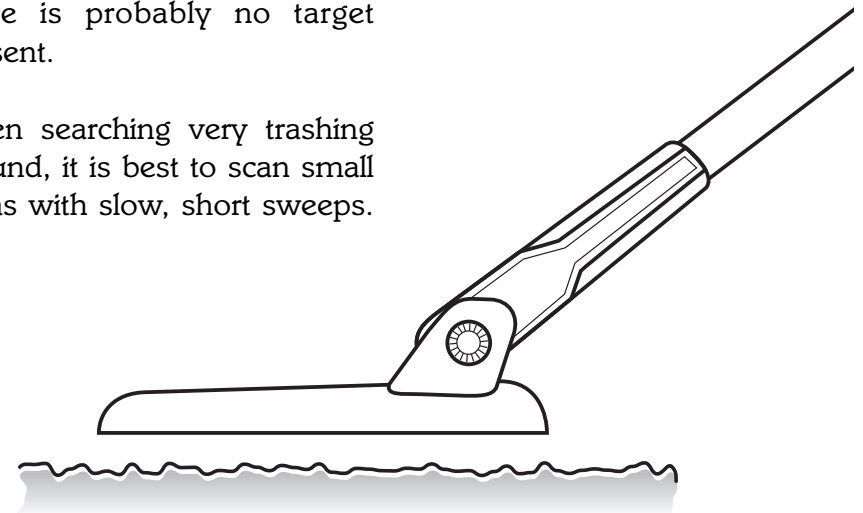
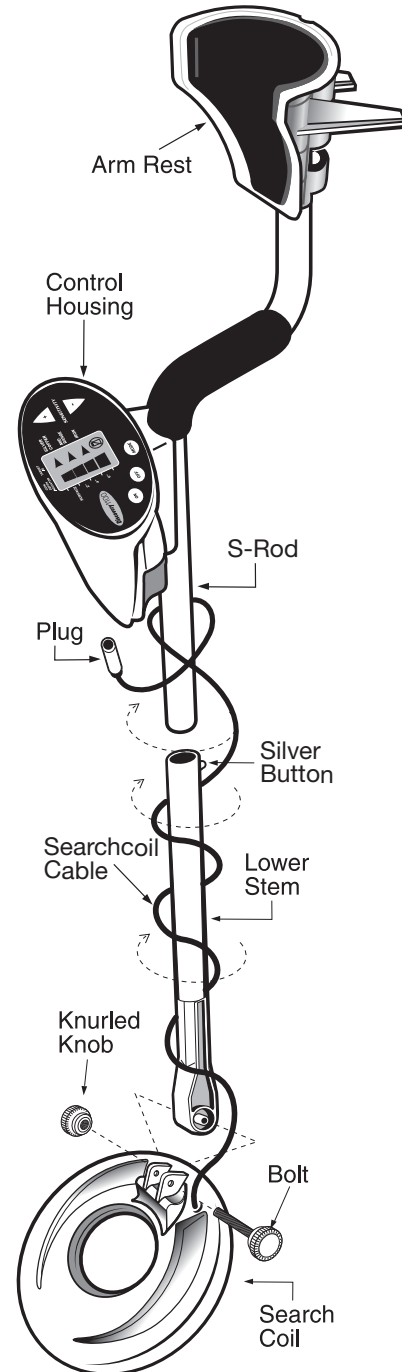
you many have encountered multiple objects. If you are new to the hobby, you may want to dig all targets at first. With practice in the field, you will learn to better discern the nature of buried objects by the nature of the detector's response.

You may encounter some false signals as you proceed. False signals occur when the detector beeps, but no metal target is present. False signals can be induced by electromagnetic interference, oxidation, or highly mineralized ground soils. If the detector beeps once, but does not repeat the signal with several additional sweeps over the same spot, there is probably no target present.

When searching very trashing ground, it is best to scan small areas with slow, short sweeps.

You will be surprised just how much trash metal and foil you will find in some areas. The trashiest areas have been frequented by the most people, and frequently hold the most promise for finding the most lost valuables.

Also maintain the searchcoil positioned just above the surface of the ground, without making contact with the ground. Making contact with the ground can cause false signals.

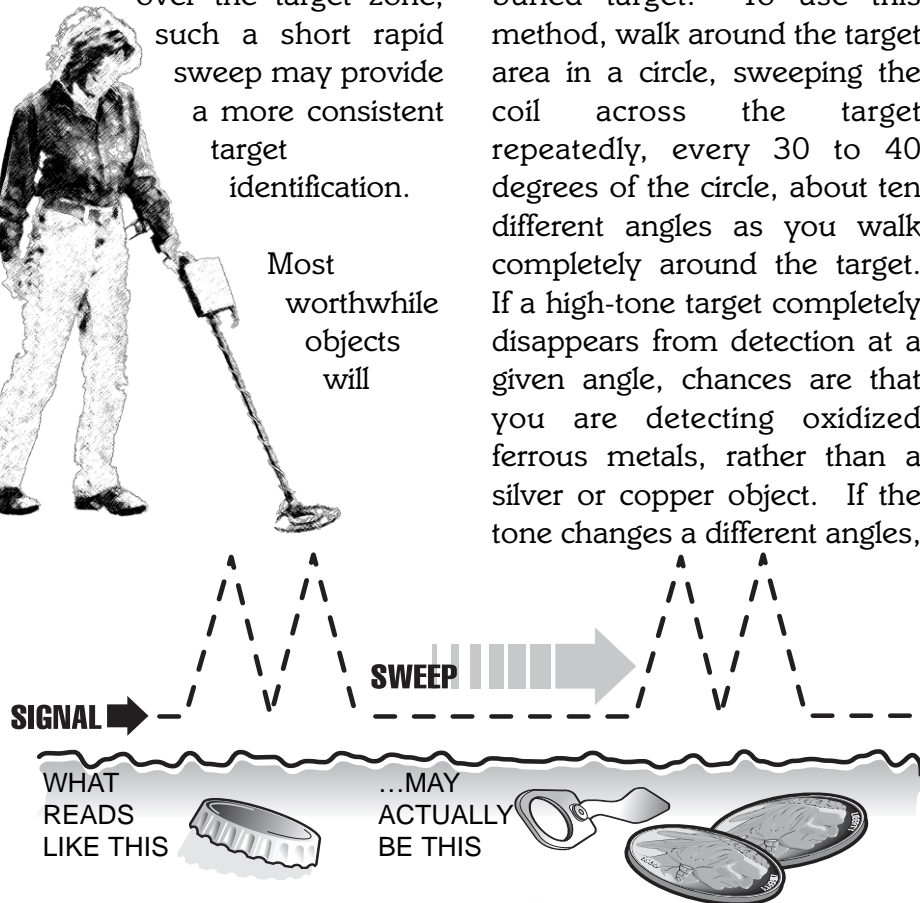


Swing the searchcoil slowly, overlapping each sweep as you move forward. It is important to sweep the coil at a consistent speed over the ground as you search. After identifying a target, your sweep technique can help in identifying both the location and the nature of the target. If you encounter a weak signal, try moving the coil in short, rapid sweeps over the target zone; such a short rapid sweep may provide a more consistent target identification.

Most worthwhile objects will

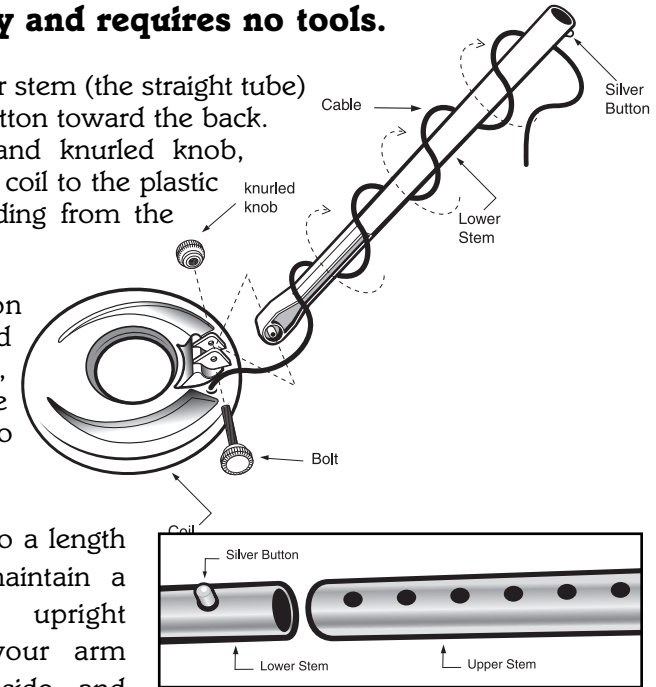
respond with a repeatable tone. If the signal does not repeat after sweeping the coil directly over the suspected target a few times, it is more than likely trash metal.

Crossing the target zone with multiple intersecting sweeps at multiple angles is another way to verify the repeatability of the signal, and the potential of the buried target. To use this method, walk around the target area in a circle, sweeping the coil across the target repeatedly, every 30 to 40 degrees of the circle, about ten different angles as you walk completely around the target. If a high-tone target completely disappears from detection at a given angle, chances are that you are detecting oxidized ferrous metals, rather than a silver or copper object. If the tone changes a different angles,



Assembly is easy and requires no tools.

- 1 Position the lower stem (the straight tube) with the silver button toward the back. Using the bolt and knurled knob, attach the search coil to the plastic extension protruding from the lower stem.
- 2 Press the button on the upper end of the lower stem, and slide the lower stem into the upper stem.

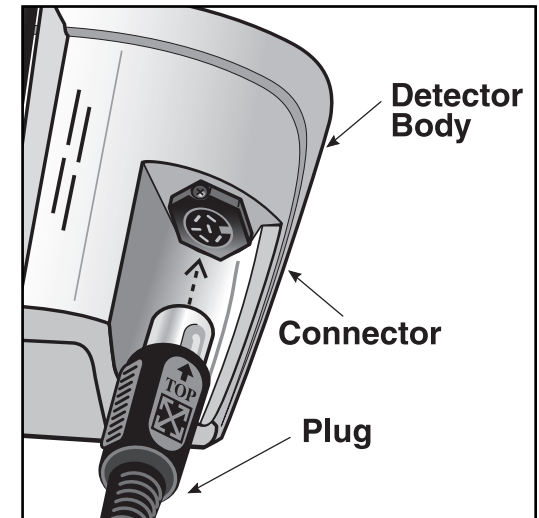


Adjust the stem to a length that lets you maintain a comfortable upright posture, with your arm relaxed at your side, and the search coil parallel to the ground in front of you.

- 3 Wind the cable securely around the stem.
- 4 Insert the plug into the matching connector on the right underside of the detector body. Be sure that the key-way and pins line up correctly.

Caution: Do not force the plug in. Excess force will cause damage. To disconnect the cable, pull on the plug.

Do not pull on the cable.



BATTERIES

Use **ALKALINE** batteries only.

To install the batteries:

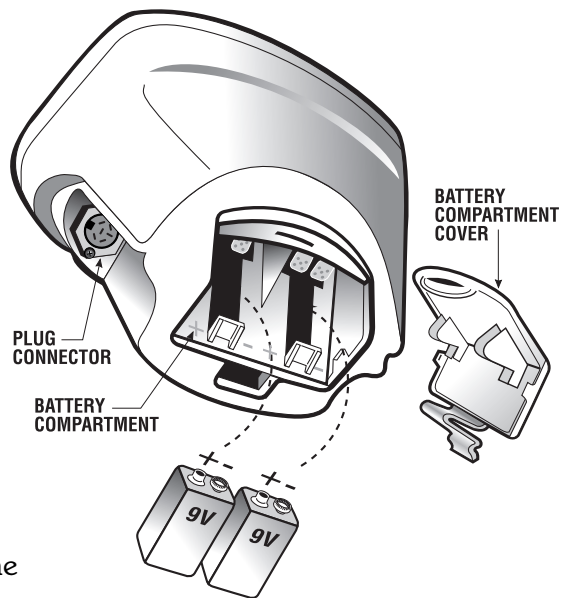
- 1 Remove the battery cover by disengaging the clip at the back.
- 2 Align the polarity of the batteries correctly, with the positive "+" toward the coil plug connection, as indicated by the + and - indicators on the housing.
- 3 Insert (2) 9-Volt **ALKALINE** batteries, with the contacts pointed inward, and press down on the back of the batteries to snap them into place.

Some brands of batteries will require moderate force to clear the retaining tabs.

- 4 Replace the battery door.

The Low Battery Indicator will come on and stay on if the batteries need to be replaced.

Most metal detector problems are due to improperly installed batteries, or the use of non-alkaline or discharged batteries. **If the detector does not turn on, please check the batteries.**

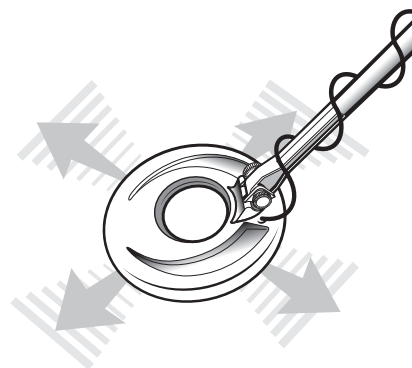


IN THE FIELD TECHNIQUES

PINPOINTING

Accurate pinpointing takes practice and is best accomplished by "X-ing" the target area.

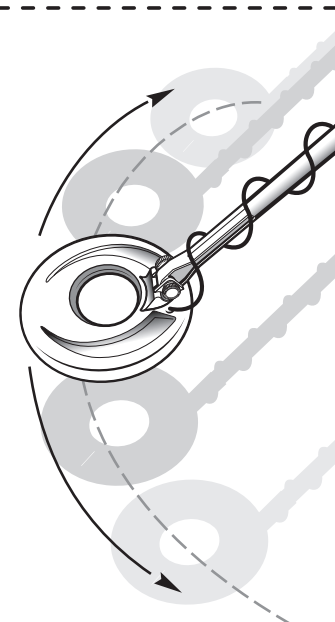
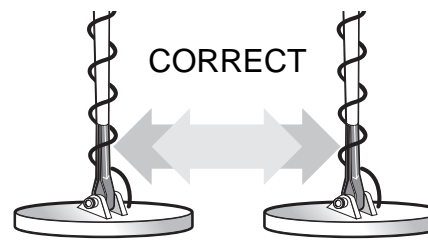
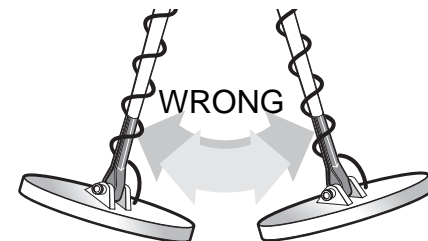
1. Once a buried target is indicated by a good tone response, continue sweeping the coil over the target in a narrowing side-to-side pattern.
2. Take visual note of the place on the ground where the "beep" sounds.
3. Stop the coil directly over this spot on the ground.
4. Now move the coil straight forward and straight back towards you a couple of times.
5. Again make visual note of the spot on the ground at which the "beep" sounds.
6. If needed, "X" the target at different angles to "zero in" on the exact spot on the ground at which the "beep" sounds.



When pinpointing a target, try drawing an "X", as illustrated, over where the tone is induced.

COIL MOVEMENT

When swinging the coil, be careful to keep it level with the ground about one inch from the surface. Never swing the coil like a pendulum.



SENSITIVITY ADJUSTMENT

Upon power-up, the detector defaults to 3/4 sensitivity. To increase to full sensitivity, press the Sensitivity ▲ touch pad.

ELECTROMAGNETIC INTERFERENCE

The principle use for the Sensitivity Control is to eliminate Electromagnetic Interference (EMI).

A hobby metal detector is an extremely sensitive device; the searchcoil creates its own magnetic field and acts like an antenna. If your detector beeps erratically when the searchcoil is motionless, the unit is probably detecting another magnetic field.

Common sources of EMI are electric power lines, both suspended and buried, motors, and household appliances like computers and microwave ovens. Some indoor electronic devices, such as dimmer switches used on household lighting, produce severe EMI and will cause the detector to beep erratically. Other metal detectors also produce their own electromagnetic fields, so if detecting with a friend, keep two metal detectors at least 20 feet apart.

If the detector beeps erratically, **REDUCE THE SENSITIVITY** by pressing the Down-Sensitivity Arrow ▼ on the left of the control panel.

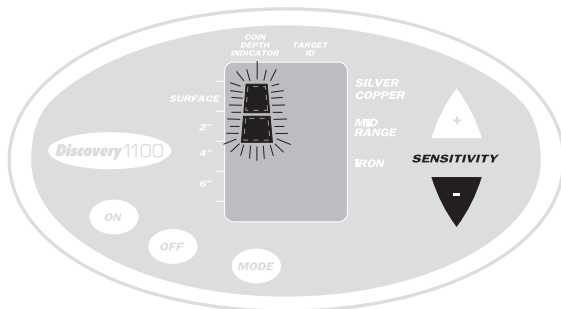
SEVERE GROUND CONDITIONS

A secondary use for the Sensitivity Control is to reduce false detection signals caused by severe ground conditions. While your Discovery 1100 contains circuitry to eliminate the signals caused by most naturally occurring ground minerals, 100% of all ground conditions cannot be anticipated. Highly magnetic soils found in mountainous and gold-prospecting locations can cause the detector to emit tones when metal objects are not present. High saline content soils and sands can also cause the detector to false.

If the detector emits false, non-repeatable, signals, **REDUCE THE SENSITIVITY**.

MULTIPLE TARGETS

If you suspect the presence of deeper targets beneath a shallower target, reduce the sensitivity to eliminate the detection of the deeper targets, in order to properly locate and identify the shallower target.



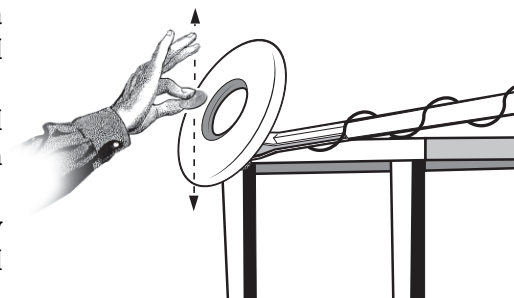
QUICK-START DEMONSTRATION

I. Supplies Needed

- A Nail
- A Quarter
- A Pull-Tab from a beverage can
- A Zinc Penny (dated after 1982)

II. Position the Detector

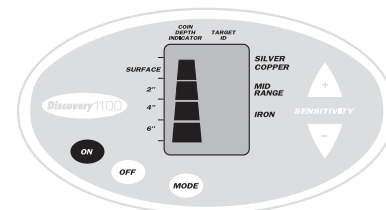
- Place the detector on a table, with the searchcoil hanging over the edge. (or better, have a friend hold the detector, with the coil off the ground)
- Keep the searchcoil away from walls, floors, and metal objects.
- Remove watches, rings and other jewelry or metal objects from hands and wrists.
- Turn off appliances or lights that cause electromagnetic interference.
- Pivot searchcoil back toward the detector body.



III. Power Up

Press the ON touchpad.

The detector will beep twice and the full sensitivity setting will be indicated on the left of the display.



IV. Wave each Object over the Searchcoil

- Notice a different tone for each object.

Low Tone: Nail

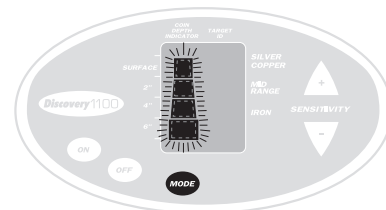
Medium Tone: Pull-tab & Zinc Penny

High Tone: Quarter

- Motion is required. Objects must be in motion over the searchcoil to be detected.

V. Press the MODE touchpad(*)

The detector will beep twice and the sensitivity setting will flash on the left side of the display.



Quick-Start Demo continued on next page

QUICK-START DEMONSTRATION

VI. Press the **MODE** touchpad again. (*)

- A flashing indicator will point toward IRON.
- The flashing indicator tells us that Iron has been eliminated from detection.

VII. Wave the Nail over the Searchcoil

- The Nail will not be detected.
- The Nail has been "Discriminated Out."

VIII. Wave the Quarter, Penny, and Pull-Tab over the Searchcoil

These non-ferrous objects will be detected with their own distinctive tones.

IX. Press the **MODE** touchpad again. (*)

- The detector will beep twice and the sensitivity setting will flash on the left side of the display.
- Notice the flashing arrow pointing toward Iron.
The flashing arrow indicates that this target category is currently "Discriminated Out."

X. Press the **MODE** touchpad again. (*)

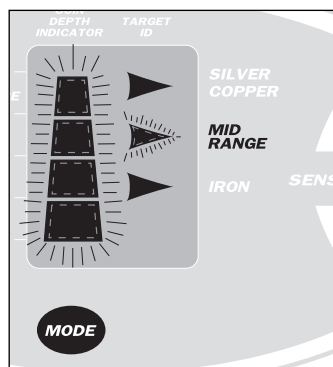
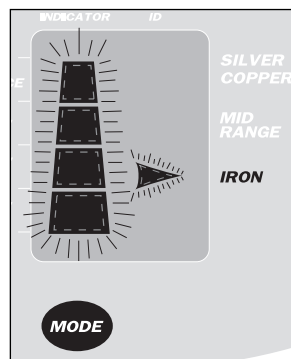
The flashing arrow will now point toward MID-RANGE.

XI. Wave all objects over the Searchcoil

The Pull-Tab and Zinc Penny will not be detected.
The other objects will be detected with their own distinctive tones.

XII. Toggle modes by pressing the **MODE** touchpad again. (*)

- Press once to see the current discrimination status of the detector (Mid-Range Eliminated).
- Then press again to toggle to the third discrimination setting.
 - Iron is eliminated.
 - Mid-Range Metals are eliminated.
 - Only high-tone metals like silver and copper will be detected.



AUDIO TARGET IDENTIFICATION

While the LCD (Liquid Crystal Display) is very accurate in identifying buried objects, the user in the field does not always maintain the display screen in his field of vision. Therefore, we have incorporated an audio feedback mechanism to alert the user to the nature of buried objects. This audio feedback system first alerts the user to the presence and classification of objects, whose nature and location can be confirmed using the LCD display.

The detector will sound three different tones. These three tones correspond to the three target categories depicted on the LCD display.

LOW TONE

Ferrous objects, such as iron and steel, will induce a low tone. Small gold objects can also induce a low tone.

MEDIUM TONE

Pull-tabs, newer pennies (post-1982), larger gold objects, zinc, small brass objects, and most bottle screw caps will induce medium tones. Many recent vintage foreign currencies will induce medium tones, including loonies & toonies.

HIGH TONE

Silver and copper coins, larger brass objects, older pennies (pre-1982), and highly oxidized metals will induce high tones. Quarters, dimes and other precious coins fall into this category.

LOW TONE



Nails, Bottle Caps,
& Small Gold

MEDIUM TONE



Old & New Pull Tabs, Zinc US Pennies
(Post 1982), Nickel, Larger Gold
Objects, Pennies, Loonies & Toonies.

HIGH TONE

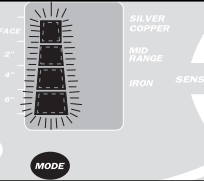
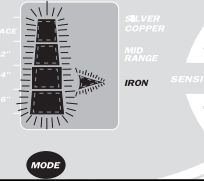
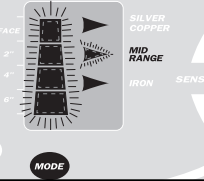
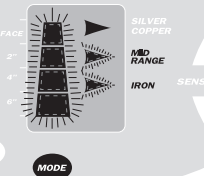


Copper, Silver & Brass
Copper Pennies (Pre 1982)

Audio Target Identification (ATI) classifies metals into three categories.

BASIC OPERATION

Discrimination Settings are as follows:

Mode	Metals Eliminated	Status Tones	Display (During discrimination selection)
All-Metal	None	High	No Target Indicators Flashing 
Iron Discrimination	Ferrous only	Low	Iron Indicator Flashing 
Mid-Range Discrimination	Pull-tabs, Screw Caps, some Foil, medium Gold, Zinc, Nickels	Medium	Mid-Range Indicator Flashing 
Full Discrimination	Ferrous and Mid-Range metals	Low & Medium	Iron and Mid-Range Indicators Flashing 

USING HEADPHONES

Using headphones (not included) improves battery life, and prevents the sounds from annoying bystanders.

It also allows you to hear subtle changes in the sound more clearly, particularly if searching in a noisy location. For safety reasons, do not use headphones near traffic or where other dangers are present. This device is to be used with interconnecting cables/headphone cables shorter than three meters.

BASIC OPERATION

POWERING UP

Press the ON touchpad.

All display indicators will illuminate momentarily.

The 4-segment pyramid-shaped Sensitivity Indicator will illuminate on the left side of the display. The 4-segment pyramid indicates that the detector is at full sensitivity.

When an object is detected, the object will be identified by a tone, a display indicator, and a depth indication.

A two-minute "warm-up" is required before the detector reaches full sensitivity.

UNDERSTANDING THE DISPLAY

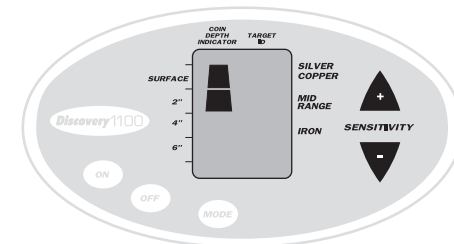
The LEFT SIDE of the display has a dual purpose:

1 SENSITIVITY LEVEL

Upon power-up, and after pressing either the up- or down-sensitivity pads, the pyramid-shaped display indicates the detector's **sensitivity level**.

The sensitivity level can be changed using the up- and down-pads.

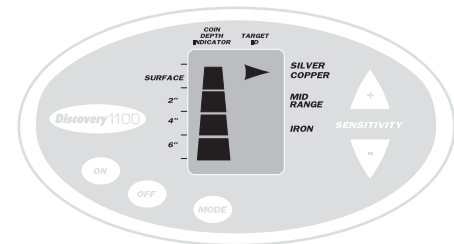
At maximum sensitivity, the unit can detect a coin-sized metal object buried about 6" beneath the surface; larger objects can be detected much deeper.



2 DEPTH INDICATION

After detecting an object, the pyramid-shaped display indicates the approximate **depth** of buried, coin-sized objects.

Objects at or near the surface will illuminate the single segment at the top of the scale.



More deeply buried objects will illuminate more segments, indicating depths of 2, 4, or 6 inches, as identified to the left of the display.

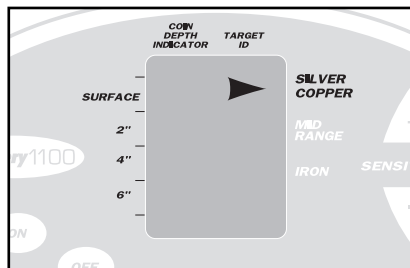
The depth indicator is not accurate for large, or irregularly shaped, objects. However, the scale will provide relative depth indications for larger objects; a given object will induce deeper readings the farther it is from the searchcoil.

BASIC OPERATION

The RIGHT SIDE of the display classifies objects into three categories.

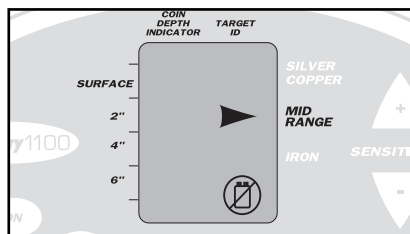
Silver/Copper:

Objects composed of silver and copper will illuminate this arrow. Buried and heavily oxidized metal objects, such as old tin cans, can also fall into this category. Larger aluminum objects, like beverage cans, will sometimes fall into this category.



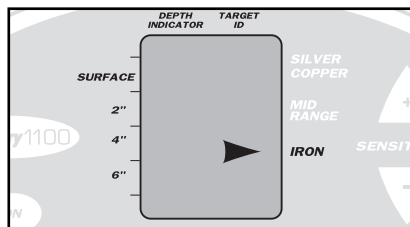
Mid-Range:

Mid-range objects cover a large variety of metals. Among them are: pull-tabs from beverage containers, nickels, medium-sized gold objects, some types of aluminum, and zinc.

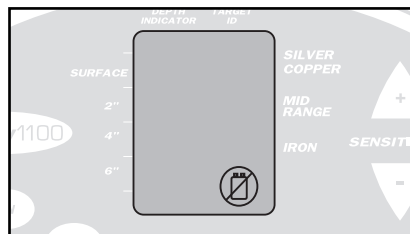


Iron:

All ferrous objects, and some smaller aluminum objects, fall into the iron category. Small gold objects can also fall into this range.



The BOTTOM RIGHT SIDE of the display will illuminate a Low Battery Indicator symbol if the batteries are discharged. The indicator illuminates, and remains illuminated, when the 9-volt batteries have discharged to a level of 7.35 volts.



Reading the Display IN THE FIELD

With the detector in use in the field, the display will indicate both the DEPTH and the TARGET IDENTIFICATION of each object detected. After a target is detected, these indicators will remain illuminated with this information until the next target has been detected. If uncertain about the target's identification, try sweeping the coil at a faster speed. A more rapid sweep over a target will generally provide a more accurate target identification.

BASIC OPERATION

The MODE CONTROL

The MODE touchpad allows for the elimination from detection of unwanted metal objects.

By pressing MODE, the user toggles among four different discrimination settings.

During MODE (or discrimination) selection, the SENSITIVITY INDICATOR on the left of the display will flash continually. The detector will remain in this discrimination selection mode for 10 seconds until a metal object has been detected.

If an object is detected during mode selection, the detector will exit mode selection. If this happens, you will need to press MODE again and begin mode selection over again. To avoid this, keep the detector stationary and reduce sensitivity before pressing MODE.

The MODE touchpad has two functions:

Each first press of MODE will be followed by.

- 1 A distinctive tone or tones, indication the detector's stored discriminating setting.
 - HIGH TONE - no object eliminated.
 - LOW TONE - iron eliminated.
 - MEDIUM TONE - mid-range metals eliminated.
 - LOW & MEDIUM TONE - irons and mid-range metals both eliminated.
- 2 Flashing target and sensitivity indicators. The flashing target indicators point to the targets eliminated.

Each **subsequent** press of MODE will toggle between discrimination settings. The flashing arrow indicates the target category eliminated.

The detector will store the current discrimination setting until the power is turned off.