User's Manual

BOUNTY HUNTER®
JUNIOR
Target I.D.

Use:
(2) AA **ALKALINE** batteries.

DO NOT USE
• Heavy Duty Batteries.
• Zinc Carbon Batteries

TERMINOLOGY

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

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.
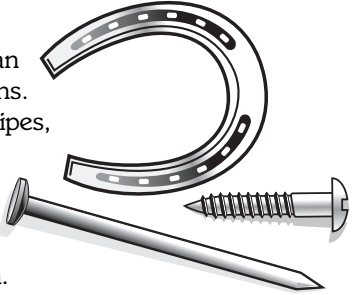
FERROUS

Metals which are made of, or contain iron.

ELIMINATION

Reference to a metal being "eliminated" means that the detector will not emit a tone, nor display a Target-ID icon when a metal object passes through the searchcoil'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.
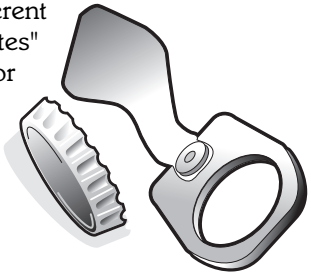
PINPOINTING

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.

GROUND CANCELATION

Ground Cancelation 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. This detector incorporates proprietary circuitry to eliminate false signals from many mineralized soils.

To get the most enjoyment from your Metal Detector, we suggest you do the following:

1. Use two AA **ALKALINE** batteries only.
- Do not use Heavy Duty batteries.
- Do not use ordinary Zinc-Carbon Batteries.

Rechargeable batteries can also be used. If you use rechargeables, we recommend using "Nickel Metal Hydride" rechargeable batteries.

2. Use your detector **OUTDOORS** only.
- Large metal objects inside the home may interfere with the detector's operation. Floors and walls of most homes contain metal objects such as nails, pipes, wires, ductwork, etc.

- Electrical appliances inside the home, like microwave ovens, televisions, and some light fixtures emit electromagnetic energy which can interfere with the detector's operation.

- Do not place coins on the floor of your home and try to detect.
  Try this test outside only.

- If conducting an indoor demonstration, hold the searchcoil off the floor and wave coins over the center of the searchcoil.
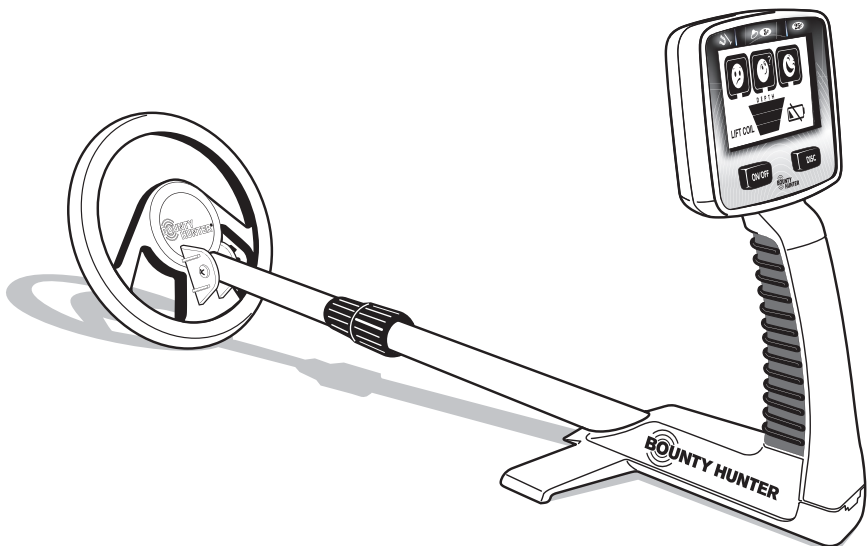
Installing Batteries

Use two AA **ALKALINE** batteries only!

1. Remove the battery door from the front of the detector.
2. Use two AA **ALKALINE** batteries.
   Do not use Heavy Duty or ordinary Zinc Carbon batteries.
3. Install batteries with polarity marking as shown.
4. Replace the battery door.

lift
latch
to open
door
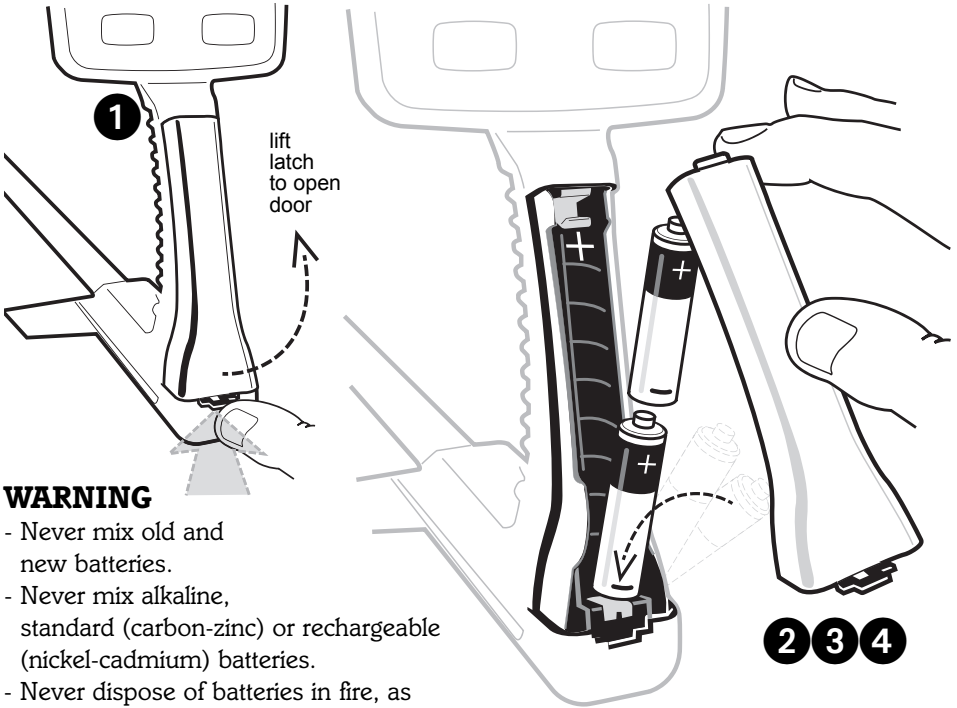
WARNING
- Never mix old and
  new batteries.
- Never mix alkaline,
  standard (carbon-zinc) or rechargeable
  (nickel-cadmium) batteries.
- Never dispose of batteries in fire, as
  they may explode.
- Never attempt to charge non-chargeable batteries.
- Always remove exhausted batteries from metal detector.
- Do not store unit with batteries installed.

BATTERY DISPOSAL & RECYCLING

Alkaline batteries may be disposed of in a normal waste receptacle or recycled. Non-Alkaline batteries should be recycled. In the state of California all battery types must be recycled. Please refer to local municipalities for detailed disposal and recycling requirements.
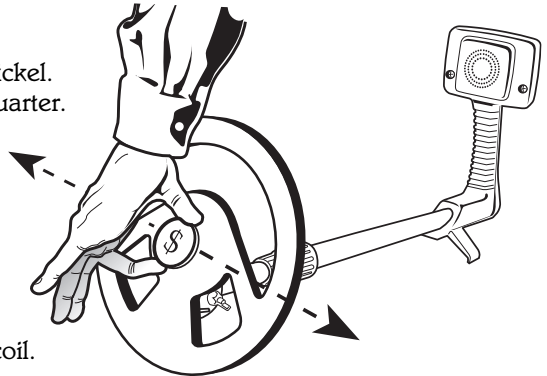
Quick-Start Demo

Try this quick way to demonstrate the basic features of your metal detector:
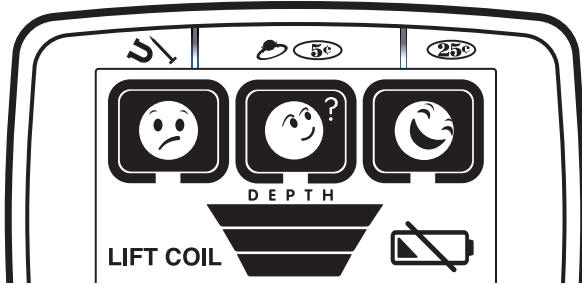
I. Supplies Needed
    a. a nail.   **b**. a nickel.
    c. a gold ring.   **c**. a quarter.

II. Keep the searchcoil away from floors, walls, and metal objects. One person holds the detector still, so that another can sweep coins under the searchcoil.

III. To turn detector on, press-and-hold ON/OFF. LCD will momentarily illuminate all segments.

IV. Detecting All Types of Metals
    a. Wave each object under the searchcoil. Wave coins flat, parallel to the searchcoil. Notice the tone is loudest as the object passes under the searchcoil center.
    Notice the different audio tones for each object.
    b. Pass each object at varying distances from the searchcoil.
    1.) The sound gets louder as the object moves closer to the searchcoil.
    2.) The graphic DEPTH INDICATOR as you vary the target distance from the searchcoil.
    3.) Beyond a certain distance, the object is no longer detected.

V. Eliminating Some Metals
    a. Press DISC once. The left icon is disabled.
    b. Wave the nail under the searchcoil and notice it is no longer detected.
    c. Press DISC again. The middle icon is disabled.
    d. Wave the nickel and gold ring under the searchcoil and notice that they are no longer detected.
    NOTE: Rings can be composed of a variety of metals. If the ring is made of gold it will fall into the middle category.

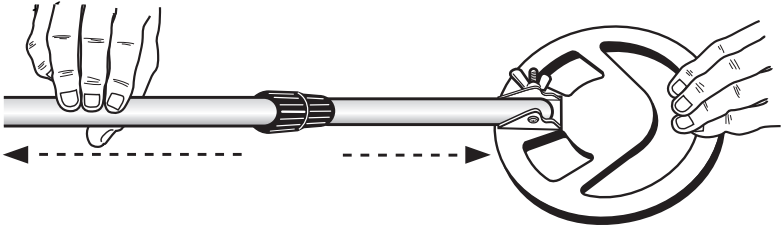**VI.** To turn the detector off, briefly press-and-hold ON/OFF.

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Adjusting Length

**Loosen the tube clamping nut 1/4 turn**
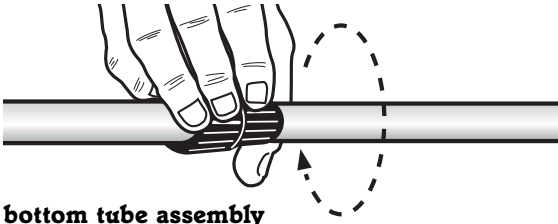
Extend the bottom tube assembly

1. Grasp the top tube with one hand.
2. Grasp the searchcoil with the other hand.
3. Pull the two sections apart to slide the bottom tube out of the top.

Establish Tube Length

1. Pivot the searchcoil perpendicular to the tube.
2. Place detector in user's hand, with arm extended.
3. Adjust tube length so that searchcoil rests on the ground, close to the user's feet.
4. Align the searchcoil so it is parallel to the ground.
5. Tighten the tube clamping nut, while holding the searchcoil in place on the ground to prevent twisting of the tube assembly while tightening. Do not over-tighten.
6. Leave approximately 2" of the lower tube inside the upper tube to help maintain rigidity.
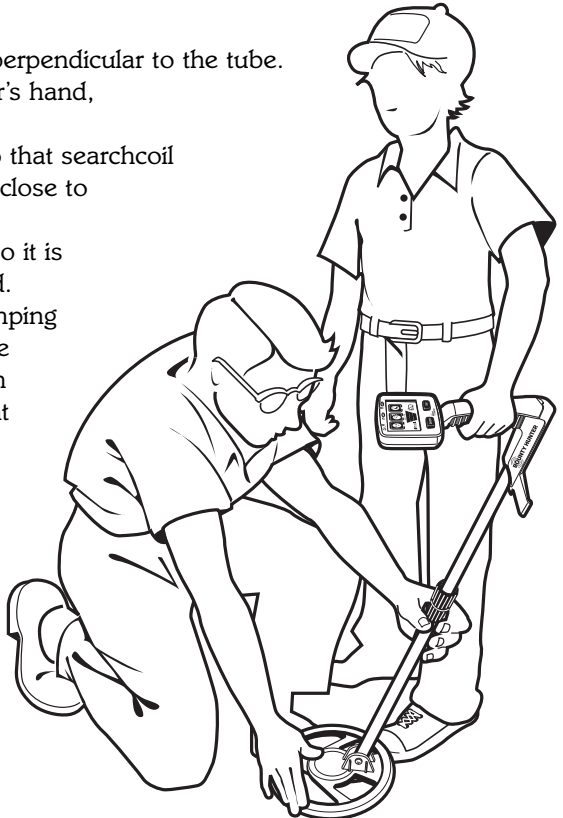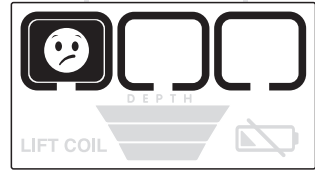
Target Identification and Discrimination

The Bounty Hunter Junior T.I.D. metal detector can both identify buried metals by category, and eliminate unwanted metals from detection.

"Discrimination" refers to the detector's ability to both identify targets and eliminate them from detection. When a Target ID category has been eliminated from detection, we say it has been "discriminated out."
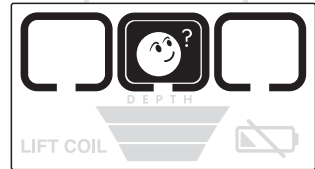
Target Identification (T.I.D.)
The Junior T.I.D. can distinguish between three categories of metal targets:
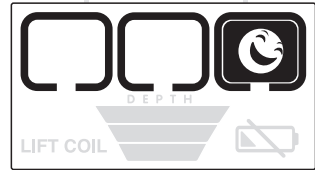
1. **Ferrous:** this includes many iron targets such as nails, screws, bolts and some large iron objects like horseshoes. The Junior T.I.D. will respond with a low-pitch audio tone and display the ☹ icon:

Probably Trash

2. **Non-ferrous low conductor:** this includes US nickels, many rings and small jewelry but also includes many trash items such as tin foil, pull tabs, screw caps and bottle caps. The Junior T.I.D. will respond with a medium-pitch audio tone and display the ☺? icon:

Could be something good?

3. **Non-ferrous high conductor:** This includes most copper and silver coins, as well as modern clad coins. The Junior T.I.D. will respond with a high-pitch audio tone and display the 🌙 icon:

The good stuff!
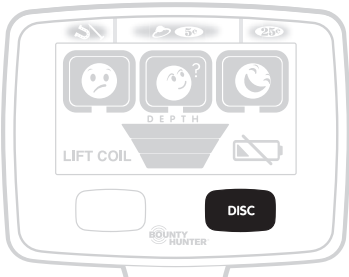
Discrimination Settings

When the Junior T.I.D. is turned on, all three categories are enabled, meaning it will detect all metal targets. By pressing DISC you can eliminate target categories.

Press DISC once to eliminate ferrous (iron) targets.

Pressing DISC again will also eliminate low conductor non-ferrous targets.

Pressing DISC a third time will return the Junior T.I.D. to the default state and detect all metals.

THREE-TONE AUDIO:

The detector emits a low, medium or high tone, depending on the type of metal detected.

Low Tone: ferrous metals that illuminate the left target-I.D. category.

Medium Tone: medium conductivity metals that illuminate the middle target-I.D. category

High Tone: high conductivity metals that illuminate the right target-I.D. category

PROPORTIONAL AUDIO:

The speaker volume indicates target strength. The shallower the target (i.e the closer to the searchcoil), the louder the tone. As you move farther away from the target, the volume drops. For the deepest targets on the fringe of detection, the speaker volume can be very faint. The visual target-I.D. icons will illuminate regardless of the target depth. The speaker volume, along with visual depth indicator, help you determine a target's depth before you dig.

Depth Indicator

Coin-sized objects can be detected up to 6 inches deep. The 3-segment graphic depth indicator is calibrated to coin-sized objects.

The Junior T.I.D. displays target depth with a 3-segment graphic depth indicator and it is calibrated to coin sized objects.

| **1 segment:**	**2 segments:**	**3 segments:**
0-2 inch target depth	2-4 inch target depth	4 or more inch target depth

Objects other than coins will still register on the depth scale, but the depth indication will be relative. For example, all 3 segments illuminated could indicate a coin at 4 or more inches deep, but could also be a very large object much deeper.

Low Battery Indicator

When battery power reaches a low condition the Low Battery icon will illuminate ❶. When it first appears there is about an hour of battery life remaining. When battery power is close to failing, the icon will flash ❷. At this point batteries should be replaced.
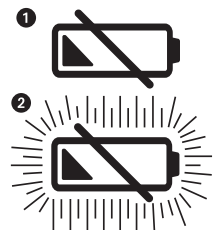
Overload Warning

If a large metal object or highly magnetic soil is too close to the searchcoil, the detector will "overload". The screen will blank and you will see a blinking **"Lift Coil"** message. The detector will also alert you with a pulsing siren sound. Overload will not harm the detector, but the detector will not function under these conditions. If overload occurs, raise the searchcoil to detect the target from a greater distance, or move to a different location.

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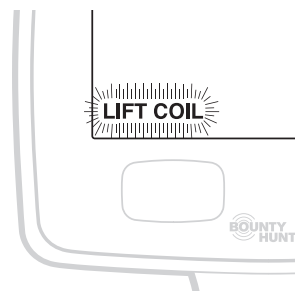
The Basics of Metal Detecting

Make sure the detector tube is adjusted to a comfortable length.

Sweep the searchcoil from side to side in slow, overlapping motions. Keep the searchcoil parallel and close to the ground. Overlap each sweep to get the best possible coverage. The Junior T.I.D. requires searchcoil motion to detect buried targets. If the searchcoil is held motionless over a target, the detector will not detect the target.
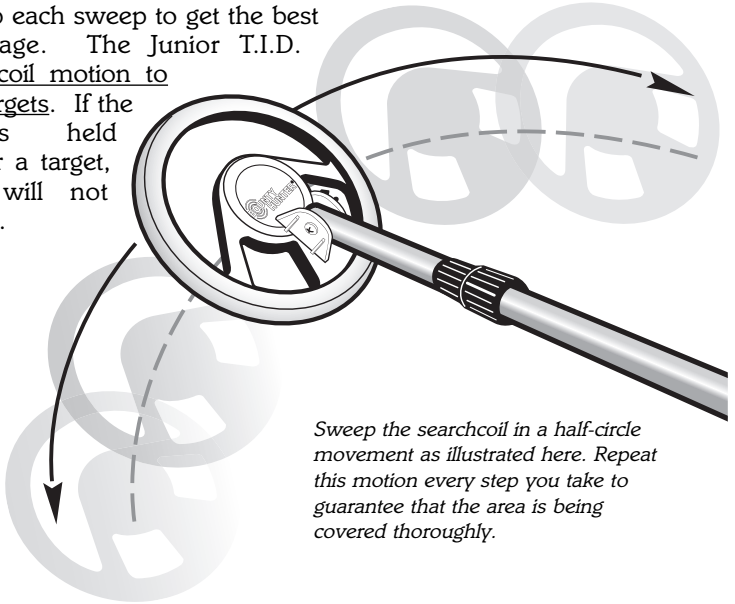
Sweep the searchcoil in a half-circle movement as illustrated here. Repeat this motion every step you take to guarantee that the area is being covered thoroughly.

WRONG

CORRECT
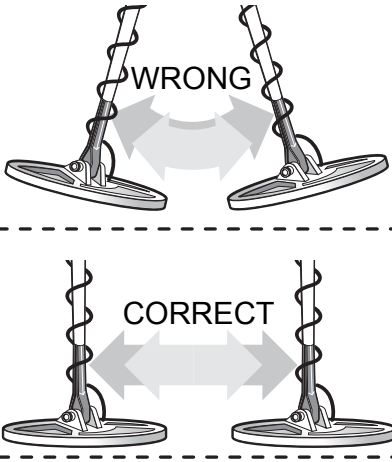
Try not to lift the searchcoil at the end of your sweeps. This may be difficult for younger children, but the closer the searchcoil is to the ground throughout the sweep, the more likely you are to find buried metal objects.

You may want to adjust your discrimination during your search, depending on what you are finding. For instance, if you are searching with all three target categories active, you will detect all types of metal objects. If you find that you are in a trashy area with a lot of iron objects, press the DISC button to eliminate the iron category. If you are in a trashy area with a lot of pull tabs and bottle caps, press the DISC button again to eliminate the middle target category.

Be aware that some desirable objects, like nickels and gold, fall into the middle target category range and will be aliminated from detection along with less valuable metals. Gold rings have a metallic signature similar to pull-tabs; nickels have a metallic signature similar to some newer pull tabs. It requires practice and patience to understand what types of objects are eliminated at each setting.
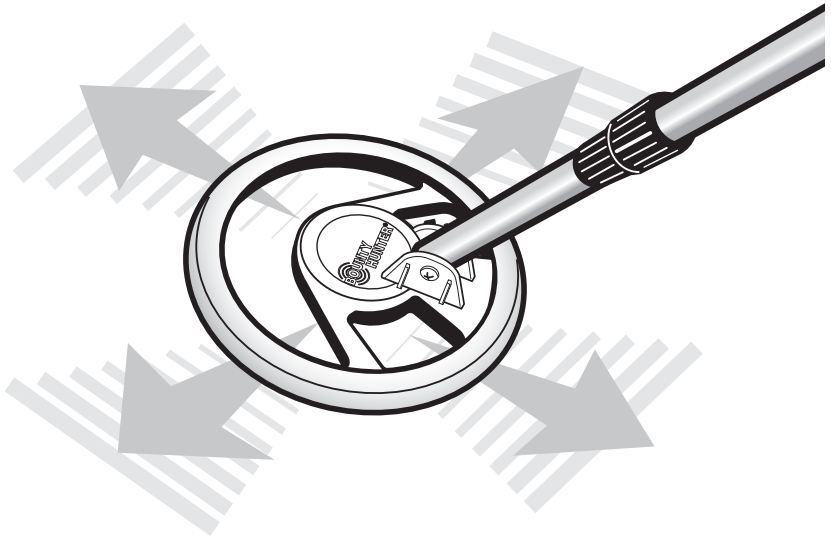
Pinpointing

Accurate pinpointing takes practice and is best accomplished by "X-ing" the suspected target area. A good way to practice this to lay a coin on the ground (make sure there are no other metal targets nearby) and practice "X-ing" it while listening to the audio. Note, the loudest signal response occurs when the center of the searchcoil is directly over the coin.

1. Once a buried target is identified by a good tone response, continue sweeping the searchcoil over the target in a narrowing side to side pattern.
2. Take visual note of the place on the ground where the "beep" occurs as you move the searchcoil slowly from side to side.
3. Stop the searchcoil directly over this spot on the ground.
4. Now move the searchcoil straight forward and straight back towards you in a similar fashion.
5. Again make visual note of the spot on the ground at which the "beep" occurs.
6. This allows you to "zero in" on the exact spot on the ground at which the "beep" occurs.

REMEMBER: The detector will beep just as the searchcoil passes over the buried object.

If you have difficulty pinpointing very strong signals, try lifting the searchcoil higher off the ground until a weaker, but more concise, signal is heard. For very weak signals, try moving the searchcoil in short quick sweeps, closer to the ground.

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

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 detectorists may be judged by the example you set; always conduct yourself with courtesy and consideration of others.

BOUNTY HUNTER®
METAL DETECTORS

ACCESSORIES

Bounty Hunter® Padded Carry Bag
Rugged double stitched construction. Includes handy exterior pocket for extra batteries or small accessories.
CBAG-W

Bounty Hunter®
Pouch & Digger Combo –
Pouch with 2 large pockets & 9" heavy duty digging tool.
TP-KIT-W

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

Bounty Hunter® Sand Scoop
Large scoop with filtering holes. Made of strong plastic.
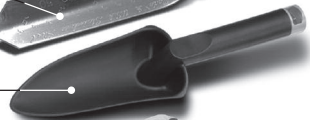*SAND SCOOPBH*

9" Heavy-Duty Digging Tool
Metal blade with comfortable plastic handle and depth gauge. *TROWEL-2*

Digging Tool –
Light and practical plastic, wide blade digging tool.
TROWEL-W

Bounty Hunter® Baseball Cap –
One size fits all, with Bounty Hunter® logo. *BHCAP*

Bounty Hunter® T-Shirt –
100% cotton with Bounty Hunter® Logo.
Sizes – S, M, LG, XL & XXL. *BHTSHIRT*

Gold Prospecting Kits	Gold Kit PART NUMBER: GOLDKIT1	Deluxe Kit PART NUMBER: GOLDKIT2	Hardrock Kit PART NUMBER: GOLDKIT3
Items Included:			
10 ½" 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