

**BOUNTY HUNTER**<sup>®</sup>  
METAL DETECTORS

# Surveyor

M E T A L D E T E C T O R

## OWNER'S MANUAL



Your Surveyor is an advanced technology Metal Detector. If you are new to the hobby or have never used a metal detector before, we recommend that you:

- 1) **Do Not Use Indoors.** Household appliances generate electromagnetic fields, which can interfere with the detector.  
  
If demonstrating indoors, turn the sensitivity down and keep the search coil away from floors, walls, and metal objects.
- 2) **Turn SENSITIVITY knob to a low setting in the event of false signals or chatter.** A little practice is required to understand when and how to position the sensitivity at or near 100%.
- 3) Use 9-volt **ALKALINE** batteries only.
- 4) **Please** read this manual.

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# TERMINOLOGY

The following terms are used throughout the manual.

## ELIMINATION

Reference to a metal being "eliminated" means that the detector will not emit a tone 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 a fixed-start-point elimination system.

## IRON

Iron is a common, low-grade metal that is often an undesirable target in certain applications. Examples of undesirable iron objects are concrete reinforcing bars, 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 earth, and can therefore be very hard to isolate.

## GROUND BALANCE

Ground Balancing is the ability of the detector to ignore, or "see through," the earth's naturally occurring minerals. When "ground balanced", the detector can differentiate between the metallic content of the soil, and buried metal objects. Professional metal detectors, like your Bounty Hunter, have the ability to ground balance in many different types of soils.

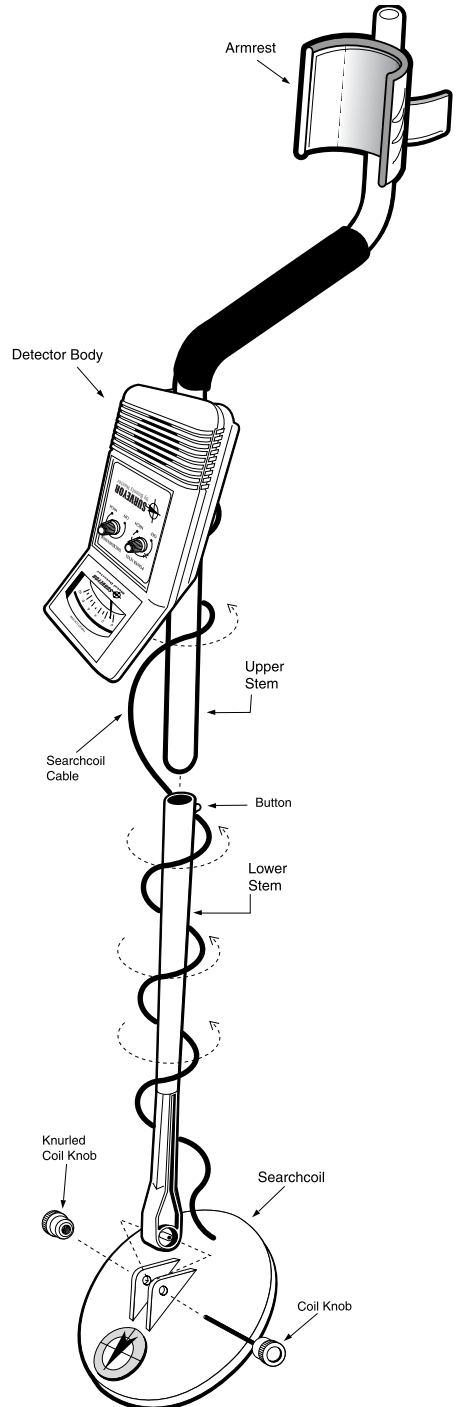
## WATERPROOF

The search coil can be submerged in water. The control housing and cable-to-housing connection must, however, stay dry.

# ASSEMBLY

**No tools are required.**  
**Follow these steps:**

- 1 Unpack your detector and find the following parts:
  - Detector body, attached to S-rod handle and search coil.
  - Lower stem (short metal tube with plastic extension and silver bottom).
  - (2) Coil knobs. One with a shaft attached, one without.
- 2 Depress the button on the lower stem and push the lower stem into the upper stem.
- 3 Wind the search coil cable around the two-piece stem.
- 4 Leave some slack in the cable as you reach the end of the lower stem.
- 5 Attach the coil to the stem using the coil knobs.
- 6 Install two (2) 9-volt **ALKALINE** batteries (not included). There are two battery doors on the back of the detector body.



# OPERATION

## STANCE

•Stand with your arm extended in front of your body. Hold the search coil off the ground, 1/2 to 1 inch above the surface.

•Position the search coil parallel to the ground.

## SWEEP

•Swing the coil slowly, from side to side. The coil must be in motion to detect metal.

•Maintain the coil parallel to the ground. Do not raise the coil at the end of each sweep.

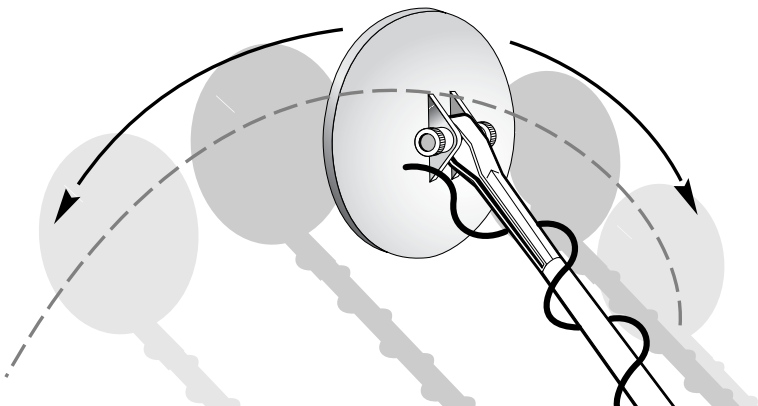
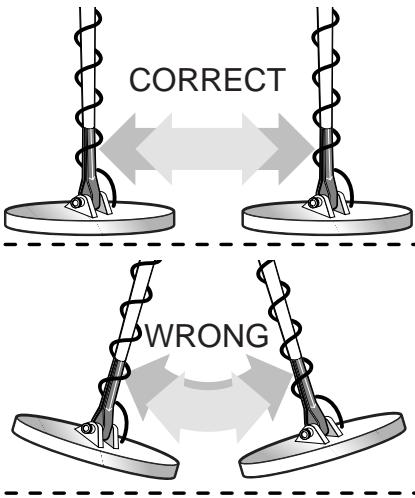
•Move slowly and overlap each sweep as you move forward, sweeping the coil in half-circle movements.

•The coil must be in motion to detect metal. Your Surveyor incorporates motion detection technology. A motionless search coil will not detect buried objects.

## TARGET RESPONSE

Most desirable targets will induce repeatable tones. When the detector emits a tone, pass the coil over the same spot again, and listen for a consistent repeatable tone each time the coil passes over the target zone.

Broken tones and non-repeatable tones *usually* indicate the presence of trash or irregularly shaped objects. Electromagnetic interference (EMI) can cause false, or non-repeatable, signals. EMI is emitted by power lines (overhead or buried), other detectors (keep 2 detectors 20 feet apart), or by machinery and motors.



# OPERATING MODES AND CONTROLS

## The Surveyor has Two Operating Modes

### 1 ALL-METALS

- All metals are detected
- Single tone response, regardless of metal type
- Maximum depth detection capability

#### Operating Controls

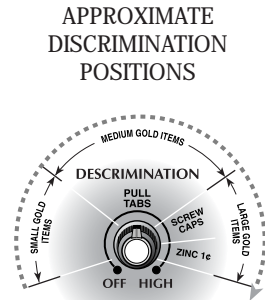
DISCRIMINATION knob does not apply

#### APPLICATIONS

Utility applications for finding all types of metal. May also be used for Relic Hunting or Cache Hunting in hobby applications.

### 2 DISCRIMINATION

- Ferrous metals are automatically eliminated from detection.
- Two-tone audio response classifies metals as illustrated below.
- Adjust the DISCRIMINATION control knob to completely eliminate unwanted items from detection.



NO RESPONSE	LOW TONE	BROKEN TONE	HIGH TONE
			
Iron & Steel	Gold & Nickel	Old & New Pull Tabs	Copper, Silver & Brass

# GROUND BALANCING

As you sweep the coil from side-to-side, the detector is constantly scanning the ground and self-adjusting to changing soil conditions. Soils vary in their magnetic, conductive and alkaline properties. Soils vary by region of the country, and can even vary within small areas; soil at the top of a hill can be different from the soil in a nearby depression.

Automatic ground balancing requires a level, consistent coil sweep. Do not lift the coil at the ends of your sweeps. Maintain a consistent coil speed as you move the coil from side to side.

# USAGE TIPS

## -tone response

With practice in the field, you will learn to classify buried objects according to the different tones and the clarity and repeatability of the tones.

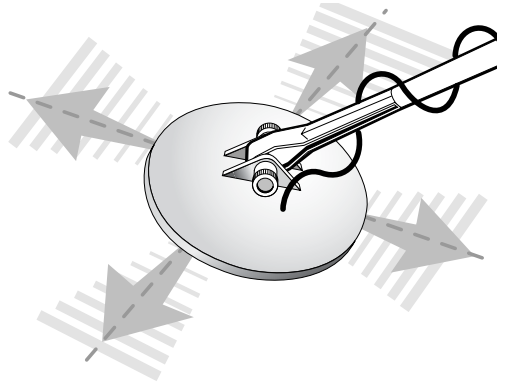
Only dig up targets that induce repeatable tones. Each time you pass the search coil over a possible target, you should hear the same tone. If the tone does not repeat on each pass, varies in tone, or varies in location, then the target is USUALLY not of value.

Inconsistent tones are evidence of high oxidation (rusted metals) or irregularly shaped objects. Note, however, that multiple tones may be evidence of multiple targets. If you cannot pinpoint the location of a very strong signal, lift the coil higher off the ground until a weaker, but more precise signal, is heard. For very weak signals, try moving the coil in short, rapid sweeps, close to the ground.

## pinpointing

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

1. When a buried target is identified by a repeatable 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" occurs.
3. Stop the coil directly over this spot on the ground.
4. Turn your stance 90 degrees, facing the target from a different angle.
5. Sweep the coil back and forth, making visual reference of the intersection of these two sweep paths.
6. If necessary, "X" the target at different angles to "zero in" on the exact location on the ground at which the beep occurs.



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

## **USAGE TIPS** *(continued)*

### **DISCRIMINATION CONTROL**

In the DISC mode, as you rotate the DISCRIMINATION knob clockwise, more types of metals are eliminated from detection. Discrimination is a cumulative elimination system; objects eliminated at a low setting remain eliminated at higher settings.

### **SENSITIVITY ADJUSTMENT**

Use the SENSITIVITY knob to eliminate Electromagnetic Interference (EMI). EMI is both naturally occurring and man-made. Common sources of EMI are power lines, both suspended and buried, and broadcasting antennas. Operating machinery can also produce EMI.

If your detector chatters or beeps erratically with the SENSITIVITY knob in the 100% clockwise position, reduce the sensitivity until the chatter stops (usually to the 1:00 to 3:00 position)

The SENSITIVITY knob can also be used if you suspect the presence of deeper targets underneath a shallower target. Reduce the sensitivity to eliminate the detection of the deeper target, so as to properly locate and identify the shallower target.

### **TARGET LOCATOR**

The target locator meter will move when metal is detected. It shows the strength of the signal and helps with pinpointing the object. Watch for the location where the needle on the meter jumps strongly to the right – that's where the target is.

## **UTILITY APPLICATIONS**

### **ALL METAL MODE**

Many utility applications require the all-metal mode of operation so that iron will be detected. Iron property markers, concrete reinforcing bars and old pipes are items that may be detected for this purpose. To use this mode, turn the power control on and adjust sensitivity as needed. Leave the discriminator control in the off position.

### **DISCRIMINATION**

For utility applications, you may want to eliminate iron if you are specifically looking for brass or copper pipes or fittings. To use this mode, turn the discriminator control on and adjust according to the metal you want to eliminate. For brass, keep the discriminator low. If you are looking for copper, you may turn the discriminator higher to eliminate iron and trash items.

There are two tones in this mode:

- Lower tone – nickel, brass, zinc
- Higher tone – copper, silver

# HOBBY APPLICATIONS

The Surveyor is a great tool that may also be used for many hobby applications as described below.

## COINSHOOTING

The most popular metal detecting application. When coinshooting, you want to discriminate out pull-tabs, screw caps, and iron objects. Beware that highly oxidized steel may also be detected. In the event of low tones, tune Discrimination control to induce "scratchy" tones; these might be trash items.

**Control Settings Required:**

- 1) DISC Mode
- 2) DISCRIMINATION knob in 2:00 position

## RELIC HUNTING

A relic is a historical object, sometimes of great value. Relics can be found in abandoned homes, plowed fields, or even your own back yard. Research the local library to learn of historical events or places in the area. You can then target your search to a specific area and gain valuable insight into the local history. Always obtain permission before entering private or government property.

**Control Settings Required:**

- 1) ALL-METALS Mode
- 2) SENSITIVITY at High

## CACHE HUNTING

A cache, pronounced "cash" is a buried or hidden valuable stored inside a case, strongbox, or bag. A cache can be hidden in the floor or walls of a house, or buried nearby.

**Control Settings Required:**

- 1) ALL-METALS Mode
- 2) SENSITIVITY at High

## JEWELRY HUNTING

Jewelry can be found wherever people congregate. Beaches, parks, schoolyards, and fair grounds are all littered with lost jewelry. Gold necklaces are very difficult to detect unless they are packed tightly together. Rings can induce tones similar to pull-tabs.

**Control Settings Required:**

- 1) DISC Mode
- 2) DISCRIMINATION Control adjusted constantly to discern nature of buried object.

# TROUBLESHOOTING

## TROUBLE SHOOTING GUIDE

SYMPTOM	CAUSE	SOLUTION
No power, no sounds	<ul style="list-style-type: none"> <li>• Dead batteries</li> <li>• Batteries not connected properly</li> </ul>	<ul style="list-style-type: none"> <li>• Replace batteries</li> <li>• Securely snap batteries on to connections</li> </ul>
Detector chatters or Beeps Erratically	<ul style="list-style-type: none"> <li>• Electromagnetic Interference</li> <li>• Using Indoors</li> <li>• Using Near Another Metal Detector</li> <li>• Wrong Type of Batteries</li> <li>• Sensitivity Set Too High for Environment</li> </ul>	<ul style="list-style-type: none"> <li>• Stay away from Power line, operating machinery</li> <li>• Use Outdoors Only</li> <li>• Keep 2 detectors at least 20 feet apart</li> <li>• Use 9-Volt ALKALINE batteries only. DO NOT USE HEAVY DUTY BATTERIES</li> <li>• Reduce Sensitivity</li> </ul>
Detector Beeps at End of Sweeps (false signals)	<ul style="list-style-type: none"> <li>• Improper Sweep Technique – Swinging Coil Like a Pendulum</li> </ul>	<ul style="list-style-type: none"> <li>• Sweep Coil Parallel to Ground</li> </ul>
Many False Signals in the Field	<ul style="list-style-type: none"> <li>• Sensitivity Too High</li> <li>• Oxidized Targets</li> </ul>	<ul style="list-style-type: none"> <li>• Reduce Sensitivity</li> <li>• Only Dig Up Repeatable Signals</li> <li>• Increase Discrimination Level (turn control 100% clockwise)</li> </ul>

# ACCESSORIES

## *MAXIMIZE YOUR METAL DETECTING EXPERIENCE WITH THESE BOUNTY HUNTER ACCESSORIES*



### **FINDS POUCH**

With adjustable waistband and Velcro closure

### **DIGGING TOOL**

Narrow Spade to minimize damage to environment

### **7-INCH COIL COVER**

Protect coil bottom from severe surface

### **HEADPHONES**

Increase battery life and find more deeply buried objects, evidenced by faint signals sometimes undetected with the standard speaker

### **CARRY BAG**

Custom-sized to carry your Surveyor. Padded, with space for other accessories



[www.detecting.com](http://www.detecting.com)

# TREASURE HUNTER'S CODE OF ETHICS:

1. Respect the rights and property of others.
2. Observe all laws, whether national, state or local.
3. Never destroy historical or archaeological treasures.
4. Leave the land and vegetation as it was. Fill in your holes.
5. All treasure hunters may be judged by the example you set. Always obtain permission before searching any site. Be extremely careful while probing, picking up, or discarding trash items. And ALWAYS COVER YOUR HOLES!

## FIRST TEXAS PRODUCTS, LP 5-YEAR LIMITED WARRANTY

This product is warranted against defects in workmanship or materials under normal use for five years from date of purchase to the original user. Liability in all events is limited to the purchase price paid. Liability under this Warranty is limited to replacing or repairing, at our option, any Bounty Hunter Detector returned, shipping cost prepaid, to First Texas Products, LP. Damage due to neglect, accidental damage or misuse of this product is not covered by this warranty.

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