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 & vegetation as it was. Fill in the holes.
5. All treasure hunters may be judged by the example you set. Always obtain permission before searching any site. Be extremely careful with your probing, picking up and discarding of trash, and ALWAYS COVER YOUR HOLES!

BOUNTY HUNTER
5-YEAR LIMITED WARRANTY

First Texas Manufacturing Co., Bounty Hunter Detectors are 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 the aforesaid Warranty is limited to replacing or repairing at our option any Bounty Hunter Detector returned, shipping cost prepaid, to First Texas Manufacturing Co., and upon examination shall disclose to First Texas Manufacturing Co.'s Satisfaction to have been thus defective.

BOUNTY HUNTER®

First Texas Manufacturing
11900 Montana Ave.
El Paso, TX 79936
(915) 855-4206

LAND STAR™

Metal Detector

CE

OWNER'S MANUAL

KEY POINTS

This Detector System has two distinct systems in one:

1. ALL METAL No-Motion Mode: In this setting, detected targets will cause the detector to sound off for as long as the target is under the searchcoil—motion is not required to detect a target. When operating in the **ALL METAL Mode**, adjust the **GROUND BALANCE** to ensure proper mineral elimination; it is required to push the **GROUND TRAC** touchpad after adjusting the **GROUND BALANCE**. All targets will be detected with a medium tone.

2. Motion DISCRIMINATE Mode, NOTCH and AUTO NOTCH Modes: Operates with Three Tone Audio Target Identification, **SENSITIVITY Control** and Automatic Ground Balance—the **GROUND TRAC** touchpad does not apply in these modes of operation. Iron is detected in the **DISC Mode.** The **DISC/NOTCH Control** is used to set the level for the rejection of various trash items. Motion is now required to make a detection—items will be tuned out if coil is not in motion.

NOTE: Do not attempt to test unit by placing a coin or metal objects onto a floor. Most floors contain metal which will interfere with the detector's operation.

CAREFULLY READ THIS ENTIRE MANUAL BEFORE ATTEMPTING TO OPERATE YOUR NEW LAND STAR METAL DETECTOR.

INTRODUCTION

Your Bounty Hunter Land Star is designed to be effective in all areas of treasure hunting. Coin-shooting, relic hunting, and gold nugget shooting are some of the many ways your detector can be utilized.

Metal Detecting can be a lifelong pursuit available to all ages. The hobby is completely dependent on the type of equipment being used and the operator's expertise. With the electronically advanced Land Star metal detector and diligent practice you will achieve a level of expertise making the hobby of metal detecting very rewarding. The first step towards this goal is to carefully read this manual before attempting to operate your new Land Star metal detector.

The Land Star's features include:

Dual LCD Display — displays the probable type of metal being detected and the probable coin depth.

Slow Sweep Discrimination — distinguishes between different metals efficiently, even when the detector is swung at slow speeds.

Three-Tone Audio Discrimination — sounds distinctive tones for different categories of metal objects to make target identification easier.

Four Modes of Operation —

1. **ALL METAL:** detects all types of metal without discrimination.
2. **DISC:** lets you detect valuable metal objects while rejecting most junk targets.
3. **NOTCH:** allows for tuning in nickels, gold rings and silver/copper coins while eliminating most pull-tabs. Can also be adjusted to other settings.
4. **AUTO NOTCH**: automatically rejects most junk targets while retaining nickels and small gold items.

OPTIONAL ACCESSORY

The best coil to use depends on where and what you will be targeting when you are in the field. If you are looking for deeply-buried objects, a medium-sized coil, such as the standard 8-inch coil that came with your detector, is more efficient. If you're looking for tiny objects and coin-sized objects that are not buried too deeply, or using your detector for gold prospecting, a 4-Inch coil might work better.

The Bounty Hunter 4-Inch Gold Nugget Coil is highly sensitive and offers superior performance when hunting for small objects (such as gold nuggets or small pieces of jewelry), or in mineralized or highly trashed areas.

Because of its smaller size, the 4-Inch Coil has a narrower detection field and is less susceptible to interference from trash items. This makes it better able to isolate precious metals in trashy areas.

BOUNTY HUNTER®

CARE AND MAINTENANCE

Your Land Star Metal Detector is an example of superior design and craftsmanship. The following suggestions will help you care for your metal detector so you can enjoy it for years.

Handle the metal detector gently and carefully. Dropping it can damage circuit boards and cases and can cause the metal detector to work improperly.

Use and store the metal detector only in normal temperature environments. Temperature extremes can shorten the life of electronic devices and distort or melt plastic parts.

Wipe the metal detector with a damp cloth occasionally to keep it looking new. Do not use harsh chemicals, cleaning solvents, or strong detergents to clean the metal detector.

The coil is waterproof and may be submerged in either fresh or saltwater. Be careful to prevent water from entering the chassis. After using the coil in saltwater, rinse it with fresh water to prevent corrosion of the metal parts.

Modifying or tampering with the detector's internal components can cause a malfunction and will invalidate your detector's warranty.

TROUBLESHOOTING

BOUNTY HUNTER LAND STAR

The following troubleshooting steps may assist you in case you're having problems with your Land Star.

YOUR DETECTOR IS EMITTING FALSE SIGNALS WHEN YOU'RE IN THE FIELD.

Your **SENSITIVITY** may be set too high. Try cutting back the **SENSITIVITY** slightly until the false signaling disappears. Remember, to swing your coil slowly. Some false signals will occur on highly rusted metals, but if the signal does not repeat over the same area while passing the coil over it, then the target is usually not worthwhile.

YOUR LCD READOUT IS NOT LOCKING IN OR ID'ING WHILE PASSING OVER A TARGET & THERE IS MORE THAN ONE TONE BEING EMITTED BY THE DETECTOR OVER THE SAME TARGET.

This will usually occur when there is more than one object over the area you're sweeping. If it is an odd piece of metal that the detector cannot recognize, the meter will also not lock in. Sometimes, oxidation can also make the meter ID arrows and tones jump around. This may also occur if the **SENSITIVITY** is set too high.

YOUR DETECTOR IS NOT STABLE AND HAS A PULSING, DISTORTED TONE INSTEAD OF A CLEAR TONE.

This can occur if you're operating near another detector or near power lines that can interfere with the frequency that the detector operates on.

YOUR DETECTOR IS EMITTING A CONSTANT LOUD TONE OR CONSTANT REPEATING TONES

This usually occurs when the batteries are low. Try replacing your batteries with two new alkalines to determine if this is the cause.

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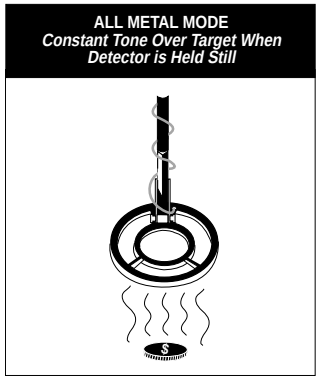
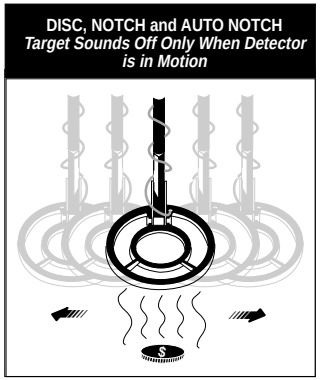
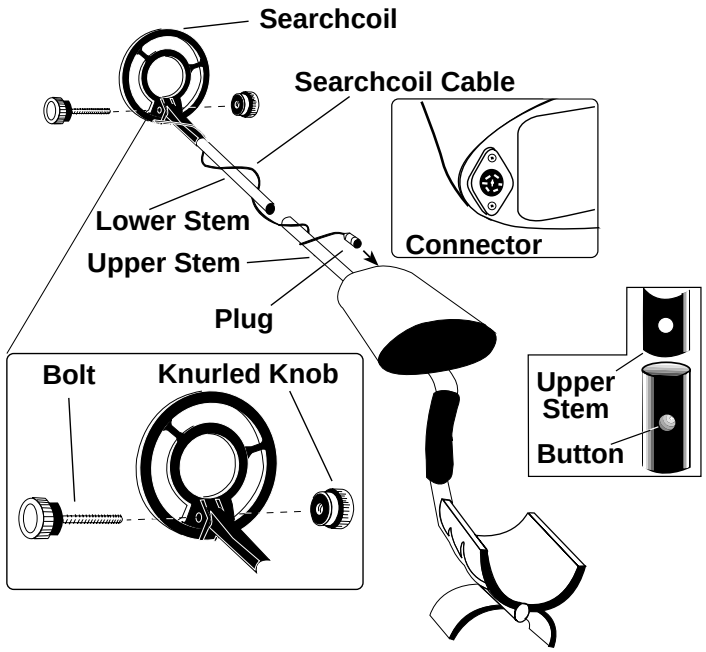
BOUNTY HUNTER LAND STAR







Assembling your Land Star Metal Detector is easy and requires no special tools. Just follow these steps:

1. Using the supplied bolt and knurled knob, attach the searchcoil to the lower stem. Attach the control panel to the upper stem with the two knurled knobs supplied.

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 searchcoil level to the ground and about 1/2 to 2 inches above the ground.

3. Wind the searchcoil cable around the stem. Leave enough slack in the cable to let you adjust the coil when you are hunting on uneven ground. Then tighten the knob at the end of the searchcoil.

Note: To adjust the coil, simply loosen the knob.

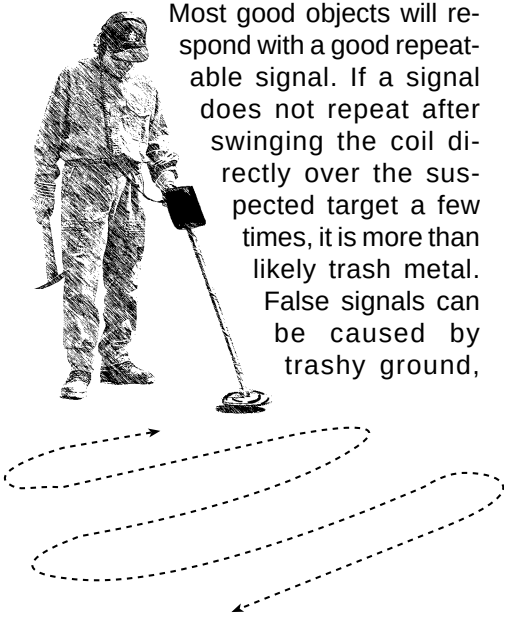
4. Insert the coil's plug into the matching connector on the control housing. Be sure the holes and pins line up correctly.

Cautions:

- Do not force the plug or you might damage it.

- To disconnect the cable, pull out the plug. Do not pull on the cable.

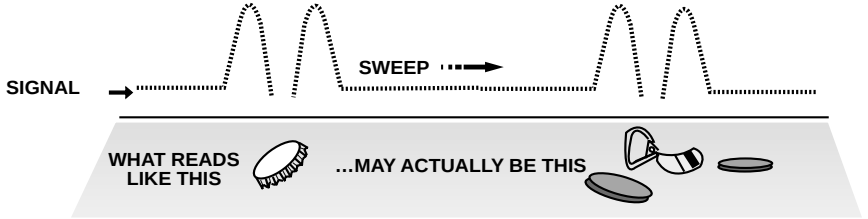
After selecting your choice of mode for operation, swing the searchcoil gently side-to-side, slightly overlapping each sweep as you move forward. Make sure you keep your searchcoil approximately 1" above ground as you search. Raising it in the sweep or at the ends of your sweep will cause false readings. Move slowly, hurrying will only cause you to miss targets.



Most good objects will respond with a good repeatable signal. If a signal does not repeat after swinging the coil directly over the suspected target a few times, it is more than likely trash metal. False signals can be caused by trashy ground, electrical interference, or by large irregular trash objects. These signals are easily recognized by their often broken or non-repeatable nature.

The Land Star is a very sensitive and deep-seeking detector. It will loudly respond to many targets that other detectors would only emit a weak signal for. Because of this, trash-induced signals and other sources of interference may emit signals that seem confusing. The main key to handling these types of false signaling is to dig only those targets that emit a strong repeatable signal. As you sweep the searchcoil back and forth over the ground, learn to recognize the difference between the signals that occur at random and signals that are stable and repeatable.

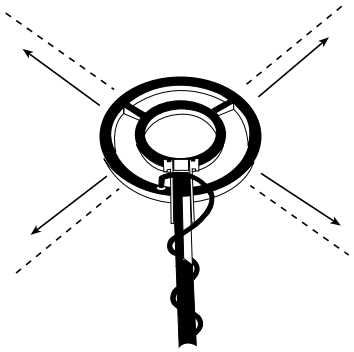
When searching very trashy ground, it is best to scan small areas with slow, short overlapping sweeps. To prevent erratic signals and difficult pinpointing in trashy areas, consider purchasing the Bounty Hunter 4-Inch Gold Nugget Coil System.



PINPOINTING

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

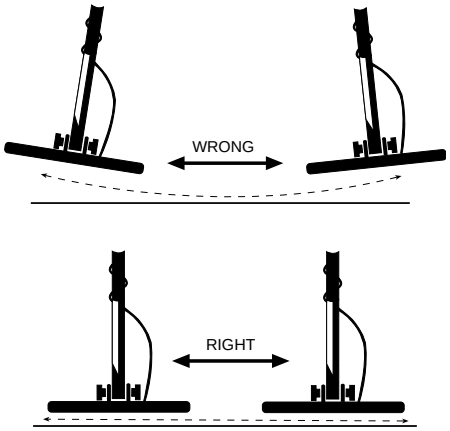
1. Once a buried target is indicated by a good tone response continue sweeping the coil over the target in a narrowing side-to-side pattern.
2. Take visual note of the place on the ground where the “beep” happens as the coil is slowly moved side-to-side.
3. Stop the coil directly over this spot on the 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” occurs.
6. If needed “X” the target at different angles to “zero in” on the exact spot on the ground at which the “beep” happens.

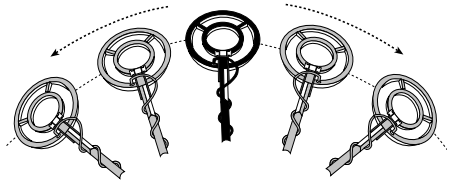


When pinpointing a target, try drawing an “X”, as illustrated, over where the tone is being emitted.

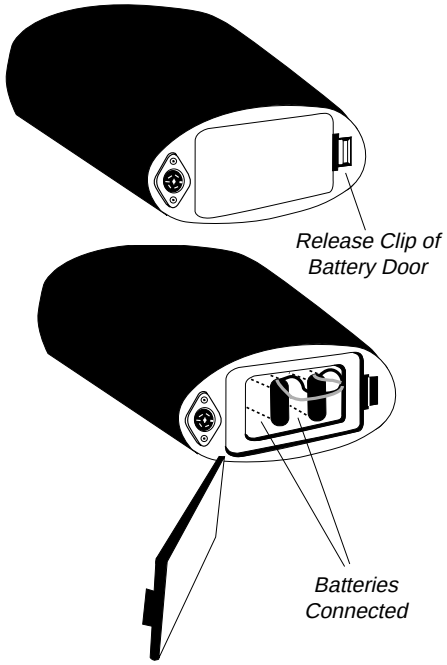
COIL MOVEMENT

When swinging the coil, be careful to keep it level with the ground about one to two inches from the surface. Never swing the coil as if it was a pendulum.





The coil should be swung in a half-circle movement as illustrated above. Repeat this motion every step you take to guarantee that the area is being covered thoroughly.



IMPORTANT: Your Land Star metal detector requires two 9-volt **ALKALINE** batteries.

Follow these steps to install the batteries.

1. Carefully remove battery compartment door by pressing release clip at right side of door.
2. Snap one battery onto each of the terminals, and place the batteries inside the compartment.
3. Replace the compartment door by carefully inserting opposite side of clip first. Then press carefully down on clip side until battery door snaps in place.

Caution: Only use fresh batteries of the required size and type.

Notes:

- The low battery indicator, along with all other arrow indicators, lights briefly when you turn on power, so you know the detector is working properly and the batteries are good.
- If the low battery indicator stays on continuously, replace the batteries.
- Many metal detector problems are caused by weak, dead, or improperly connected batteries. If the detector does not come on, has weak volume, will not tune properly, has erratic operation, or drifts, replace the batteries.
- You can extend battery life by using headphones. A headphone jack is provided and can be used with any 1/4-inch stereo-type headset.
- Remove the batteries if you do not plan to use the detector for a week or more.

RESETTING THE DETECTOR

The detector might “lock up” and sound a continuous tone if you have low battery voltage or are testing the detector with the searchcoil near a large metal object.

- Check and replace the batteries if necessary.
- Move to a different testing location.
- Reset the detector by turning it off and on repetitively.

USING HEADPHONES

BOUNTY HUNTER LAND STAR

Using headphones (not supplied) with your metal detector makes it easier to identify subtle changes in the threshold levels for better detection results, and also reduces drain on the batteries.

The Land Star Metal Detector has a stereo headphone jack.

To connect headphones, insert the headphones' 1/4-inch plug into the headphone jack on the front panel.

Traffic Safety

Do not wear headphones while operating your detector in traffic areas. This can create a traffic hazard and is illegal in some areas.

Even though some headphones are designed to let you hear some outside sounds when listening at normal volume levels, they still present a traffic hazard.

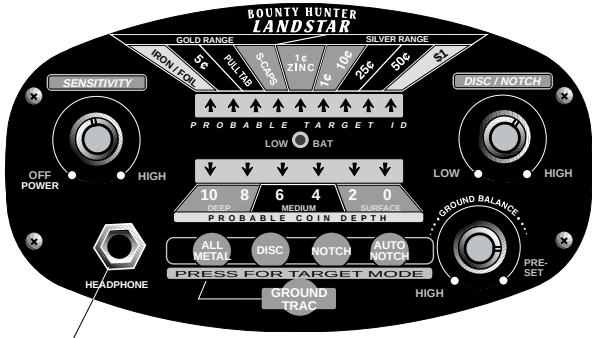
Listening Safely

To protect your hearing, follow these guidelines when you use headphones. Purchase stereo headphones that have right and left volume controls.

• Set the volume to the lowest setting before you begin listening. After you begin listening, adjust each volume control to a comfortable level.

• Do not listen at extremely high volume levels. Extended high-volume listening can lead to permanent hearing loss.

• Once you set the volume controls, do not increase it. Over time, your ears adapt to the volume level, so a volume level that does not cause discomfort might still damage your hearing.

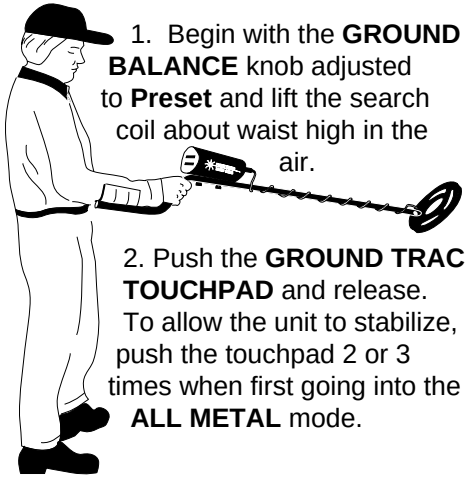


Headphone Jack

GROUND BALANCING

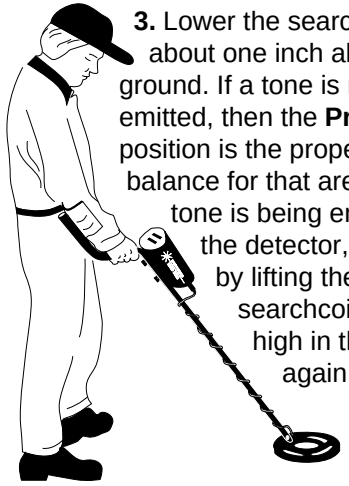
BOUNTY HUNTER LAND STAR

When searching in the **ALL METAL** mode, it is important that the detector be ground balanced to offset the effects of any minerals present in the soil or to balance the effects of saltwater when you search near the ocean.



1. Begin with the **GROUND BALANCE** knob adjusted to **Preset** and lift the search coil about waist high in the air.

2. Push the **GROUND TRAC TOUCHPAD** and release. To allow the unit to stabilize, push the touchpad 2 or 3 times when first going into the **ALL METAL** mode.



3. Lower the searchcoil to about one inch above the ground. If a tone is not being emitted, then the **Preset** position is the proper ground balance for that area. If a tone is being emitted by the detector, proceed by lifting the searchcoil waist high in the air again.

4. Turn the **GROUND BALANCE** knob counterclockwise slightly, about an eighth of a turn. Push the **GROUND TRAC** touchpad once again and release. Lower the searchcoil as described in Step 3. If the detector still emits a tone, repeat this procedure. When the detector no longer emits a tone upon lowering the searchcoil to the ground, then it is properly ground balanced for that area.

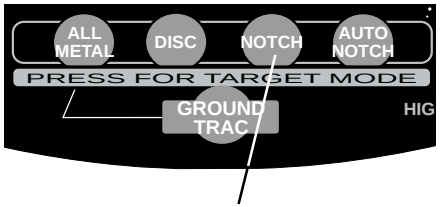
NOTE: always be careful that there is no metal on top of or under the ground where you will be ground balancing, otherwise you will not be able to determine if the tone being emitted is caused by mineralization or metal. If you think you might be over metal, move to another spot and proceed.

IMPORTANT: When adjusting the **GROUND BALANCE** knob counterclockwise, be careful to turn it in small increments—This will assure that you achieve an optimum threshold level. If you feel you've turned the knob too far counterclockwise, you can turn it clockwise using the same ground balancing procedure until a tone is being emitted and then cut it back counterclockwise slightly until a tone is no longer being emitted.

Saltwater Balance: To balance the effects of saltwater use the same general procedures as used for ground balancing. The difference is that the **GROUND BALANCE** control will require a higher setting to balance out saltwater effects.

Anytime the **GROUND BALANCE** control is moved, the **GROUND TRAC** touchpad must be pushed afterwards.

NOTCH



NOTCH TOUCHPAD

It is often desirable to eliminate some pull-tabs without rejecting nickels, since many types of gold rings are also rejected along with the nickel.

In the **NOTCH** mode, the **DISC/NOTCH** control now functions as a variable notch rejection window. The notch can then be adjusted to reject, or "notch out", selected types of pull-tabs or other trash.

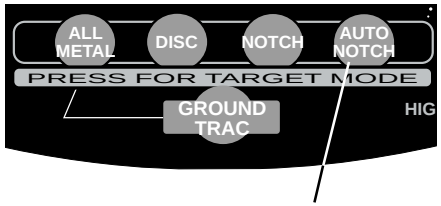
When using the **NOTCH** feature, most iron and small foil will be automatically rejected.

To set the **NOTCH**, use a pull-tab of the type to be rejected.

Adjust the **DISC/NOTCH** control to a point at which the tab, or other desired object is "notched" out, or rejected.

Now check a nickel to be sure it is still accepted. Note that some pull-tabs or tab pieces have nearly the same detection properties as nickels and some gold rings. These items cannot be separated.

AUTO NOTCH MODE



AUTO NOTCH TOUCHPAD

The purpose of the **AUTO NOTCH** is to provide a preset notch window for automatic discrimination of most trash items without the loss of nickels and most small gold objects. In this mode, the detector emits a low tone (for most small gold and nickels) and a high tone for copper, silver, and brass.

The **DISC/NOTCH** control now widens the discrimination window; for instance, zinc pennies and screw caps can also be eliminated by turning the control clockwise—yet, nickels and small gold will be retained. In the **AUTO NOTCH** mode, the discrimination window can be made wider but the beginning position cannot be changed. Expect some targets to be junk items, even if the detector emits a tone. Besides nickels, other items that might emit a low tone include foil, some pull-tabs, and small gold rings. Besides copper and silver, other items that might emit a high tone include brass and other metals.

Note: If you're ever not sure about which mode the detector is operating in, simply press the touchpad of the desired mode you want to be using at that moment.

Now that your metal detector is assembled, please read this section thoroughly before using your Land Star.

TURNING ON YOUR DETECTOR

Hold the detector in a comfortable position and turn it on by rotating the combination **POWER/SENSITIVITY** clockwise about 3/4's of a turn. The detector sounds three beeps, LCD arrows momentarily appear and unit presets to the **ALL METAL** mode of operation. When first turning the unit on, the **GROUND TRAC** touchpad must be pressed in order to bring up the sensitivity for good detection. If not, check that the batteries are properly connected and make sure they are not low.

SETTING THE MODE

Your Land Star has four modes of operation: **ALL METAL, DISC, NOTCH** and **AUTO NOTCH**.

1. ALL METAL: Press the **ALL METAL** touchpad after first turning the unit on. The unit will then respond to all types of metal without any discrimination. **GROUND BALANCE** adjustment will be necessary (see **GROUND BALANCING** on p.15). The detector will not require motion to detect a target in the **ALL METAL** mode.

2. DISC: By pressing the **DISC** touchpad, the detector will now require motion to make a detection and targets will have three distinct tones. The **DISC/NOTCH** control can now be adjusted for discrimination. By turning the **DISC/NOTCH** control clockwise the detector will first eliminate small iron objects, then medium iron objects. Turned higher, larger iron objects are eliminated followed by items such as foil and aluminum while still detecting silver and copper—depending on how high it is set. Most gold and nickels will also be eliminated when tuning the **DISC/NOTCH** control clockwise for higher discrimination. When the **DISC/NOTCH** control is placed fully counterclockwise (Low), the detector will pick up all metals including iron, nickels, and gold rings along with pull-tabs and copper/silver coins.

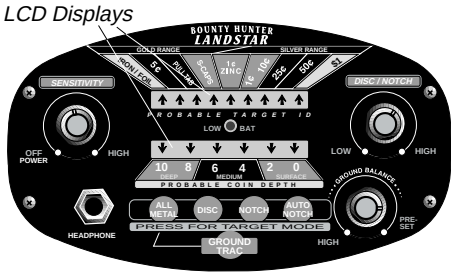
3. NOTCH: By pressing the **NOTCH** touchpad, the detector will automatically reject iron and can then be fine tuned by the **DISC/NOTCH** control for selective elimination of various junk items while still detecting nickels, small gold and silver/copper coins.

4. AUTO NOTCH: This mode will automatically reject iron and most pull-tabs yet retain detection of nickels and most small gold rings. The **DISC/NOTCH** control will increase the width of the **NOTCH** as it is turned towards **HIGH**, making possible the rejection of screw caps and zinc pennies, yet still detecting nickels and many gold rings.

Note: Some gold rings will not be detected in **AUTO NOTCH** mode of operation. A small percentage of pull-tabs will still be detected, especially pull-tabs that are broken in half in the shape of a "beaver tail".

READING THE DISPLAY

The LCD displays are located at the center of the control housing. The displays show a probable identification of the object (on the target ID readout), as well as the probable depth of the object in inches.



All Arrows and Low Bat Come On When Unit is First Turned On

The LCD target display will give a visual readout of the probable type of metal being targeted and what denomination of coins are detected. The LCD target display will usually lock on when a target is being detected and not lock on when the unit "falses" or an object is borderline discriminated.

The target ID readout displays various coins and metal objects, and a range from **GOLD** to **SILVER**. When the detector senses a target an arrow will indicate the probable target being detected.

LCD Target Readout Showing Detection of 25¢

Note: When the arrow points to a coin, the detector could be sensing either a coin or another type of metal (such as jewelry, tokens, medals, or even junk metal).

GOLD/SILVER range: Indicated on the top of the readout. The gold spectrum is to the left of the meter and the silver spectrum is to the right. Other types of metal fall under both spectrums such as iron, foil and nickel under the gold spectrum and copper pennies under the silver spectrum.

1¢ ZINC: Indicates that the target probably is a zinc penny. Will usually emit a medium tone when targeted. Other targets, such as large gold, will also fall into this category.

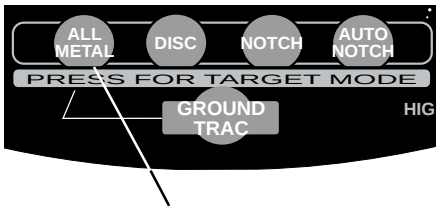
S-CAPS: Indicates that the target probably is a screw cap or other types of metal such as bottle caps. Medium-sized gold will also fall into this range, as well as large aluminum items.

PULL TAB: Indicates that the target is probably a pull-tab. Some small gold will also read as pull-tab.

IRON/FOIL: Indicates that the target is probably iron or foil. Some rusted oxidized iron will occasionally register in the silver range.

MODES OF OPERATION

ALL METAL MODE



ALL METAL TOUCHPAD

When first turning the unit on, the detector presets to the **ALL METAL** mode. The **DISC/NOTCH** control will not affect operation in this mode.

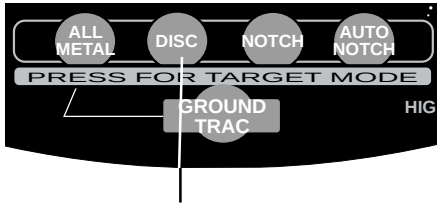
By pressing the **ALL METAL** touchpad, the unit will return to **ALL METAL** from any other mode.

The detector will not require continuous motion to detect a target in this mode of operation.

The **ALL METAL'S GROUND TRAC** pad must be pushed each time after the **ALL METAL** mode is selected, including when the unit is first turned on, so that the unit is correctly tuned.

This will lock in wherever the **GROUND BALANCE** is adjusted. It is also required that every time the **GROUND BALANCE** is adjusted, to again push the **GROUND TRAC** retune touchpad.

DISC MODE



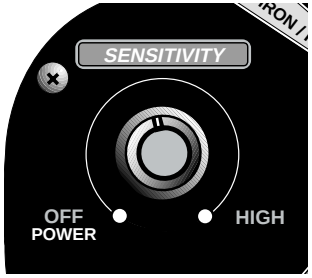
DISC TOUCHPAD

To change operation mode to **DISC**, simply press the touchpad labeled **DISC**.

The **DISC/NOTCH** control knob now functions as a standard variable discriminator.

As you rotate the **DISC/NOTCH** clockwise from the **LOW** position, it rejects iron, foil, nickels, many gold items, pull-tabs, and screw caps (in that order).

ADJUSTING SENSITIVITY



Use **SENSITIVITY** to adjust the detector's sensitivity to conditions that can cause it to respond erratically. For example, broadcasting antennas and power lines can cause false signals.

Be careful to not operate the **SENSITIVITY** so high that the Target Readout becomes erratic and false tones start emitting.

Rotate **SENSITIVITY** clockwise to increase, or counterclockwise to decrease the detector's sensitivity.

To determine how high to adjust the **SENSITIVITY**, turn the **SENSITIVITY** clockwise while listening for false signals; if the unit starts to chatter, emitting false signals, reduce the **SENSITIVITY** slightly until the chatter stops.

For maximum depth of detection, always set **SENSITIVITY** as high as possible.

ADJUSTING DISC/ NOTCH CONTROL KNOB

Only applies when unit is not operating in the **ALL METAL** mode. The **DISC/NOTCH** control knob adjusts for different levels of discrimination.

When operating in the **DISC** mode, the level of discrimination is increased by turning the control clockwise from the **LOW** position. **NOTE:** Some Gold items will also be eliminated as the control is turned clockwise.

When operating in the **NOTCH** mode, the **DISC/NOTCH** control establishes a reject window. Items falling within this window will not be detected.

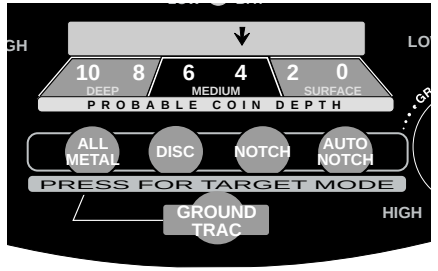
In the **NOTCH** mode, the width of the rejection window is fixed.

The **DISC/NOTCH** control will move the window to different object settings, but the window width remains fixed.

NOTE: All of the target indications are used as symbols and a visual reference of what is being targeted. Many other types of metal can fall under any one of these indications. There is always a trash to treasure ratio when detecting; the LCD allows a visual reference to minimize the trash only—it will not completely eliminate all trash items.

LOW BAT INDICATOR: Will blink when turning the unit on to indicate that it is working. If the indicator comes on and stays on, the batteries need replacement.

PROBABLE DEPTH INDICATOR: Each arrow will lock on and stay on estimated depth in inches for coin-sized objects until another target's depth is detected.



Touchpad Modes of operation with Depth Indicator arrow at 4 inches.
Shown are five Touchpads including four modes of operation. The GROUND TRAC Touchpad operates in the ALL METAL mode only.

THREE-TONE AUDIO TARGET IDENTIFICATION (ATI)

When the Land Star is in the **DISC** or **NOTCH** modes, its Audio Target Identification (ATI) system automatically classifies metal objects into three categories, to make it easier to identify the type of target being detected.

The detector sounds three different tones to distinguish between categories of detected items: a low tone for small gold and nickel; a medium tone for most old and new pull-tabs, some gold and zinc pennies (dated post 1982); and a high tone for silver, brass, and copper including pennies (dated pre 1982).

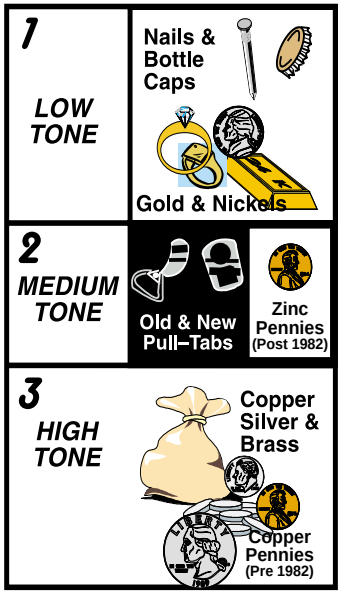
IRON & STEEL: In the **DISC** mode, most iron and steel objects will emit a low tone. On occasion, if the iron is highly oxidized, a high tone may be emitted. For instance, some rusted bottle caps will emit a high tone and indicate on the LCD readout in the **SILVER** range. In the **NOTCH** and **AUTO NOTCH** modes, iron and steel objects usually will not be detected, except for oxidized and rusted items as described above.

GOLD & NICKEL: All nickels and small gold items will emit a low tone. Larger gold items will emit a medium tone; the LCD will still read under the gold spectrum. It is recommended when specifically hunting for gold items to dig both medium and low tones.

OLD & NEW PULL-TABS: These will usually emit a medium tone or no tone at all if in the **NOTCH** mode. If a pull-tab is broken in half, the "Beaver Tail" part will emit a low tone. There are also pull-tabs that are bent and folded or highly oxidized that may emit a low tone.

COPPER, SILVER & BRASS: These metals usually will all emit a high tone in the **DISC, NOTCH** or **AUTO NOTCH** modes.

Note: When operating in the **ALL METAL** mode, Three-Tone Audio Target Identification shuts down and only one constant medium tone is emitted when a target is detected.



ATI (Audio Target Identification) falls in three categories—Some iron and steel will emit high tones depending on oxidation (level of rust)—Audio response is not 100% accurate and should only be considered a reference on average.

TESTING YOUR DETECTOR

1. While testing the unit for its capability to pick up coins and other objects, always test away from other metals—a good start is outside on the ground. You cannot test a unit indoors on the floor, because there is usually metal in the floor that may conflict with the detector's signal or even mask the signal completely.

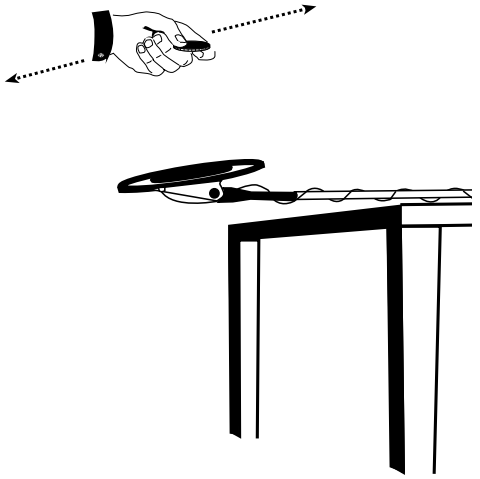
2. If you're not picking up coins or metal, even though your coil is close to the objects to be detected, there is a chance that you are not maneuvering the coil properly. Do not move the coil too quickly and try not to sweep the coil less than an inch away from the object.

3. In the **DISC**, **NOTCH** or **AUTO NOTCH** modes movement is required before the unit will recognize a target. If you're air testing, you need to point the coil to the ceiling and make sure there is no metal near the coil whatsoever (see illustration). The object you're testing with needs to be swung in a side to side motion before the detector will be able to recognize it. In the **ALL METAL** mode motion is not required to detect a target.

4. Not all gold rings will give you a low tone. Some gold rings fall in the pull-tab range and may emit a medium tone similar to the pull-tab. Some pull-tabs, especially if they are broken in half, will give you a low tone similar to most gold rings and nickels.

5. Zinc pennies will emit a medium tone instead of a high tone as do copper pennies, quarters, and dimes.

6. Do not swing the coil, or the test object, too quickly or it may give you a false signal. When repetitively passing the coil over the object, allow a few seconds to pass to give the detector a chance to recover from its last reading.



For proper air testing, place detector on table, rotate coil towards the ceiling as illustrated above. After properly rotating the coil, remove any watches and rings from your hands, and make sure no metal in the table is in close proximity to the coil. Test the detector by sweeping a metal object across the coil. If the object is not ID'ing properly, try waving the object closer to the coil while making sure the surface of the object is not on edge—for instance, a coin's surface is more accurately detected than its edge.