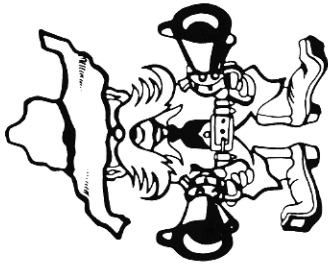




Bud Jr

OWNER'S MANUAL



Treasure Hunter's Code of Ethics;

1. Respect the rights and property of others.
2. Observe all laws, whether national, state or local. Aid law enforcement officials whenever possible.
3. Never destroy priceless historical or archeological treasures.
4. Leave the land and vegetation as it was. Fill in all holes.
5. Remove all trash and litter when you leave.
6. All treasure hunters may be judged by the example you set. Always conduct yourself with courtesy and consideration for others.

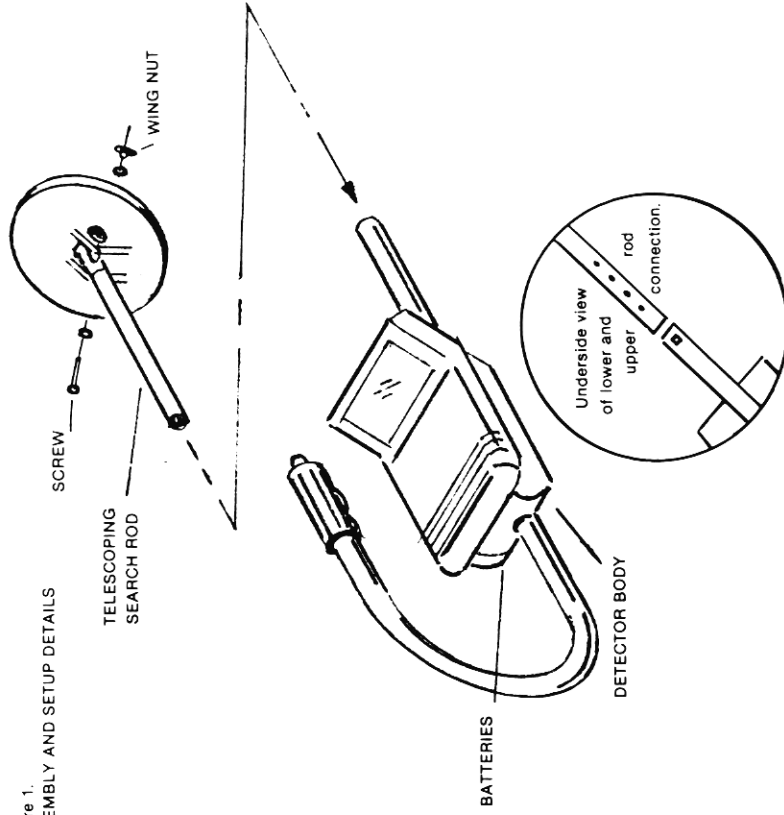
PLEASE—

Help protect our great hobby by respecting the rights of others. Always obtain permission before searching on private property. Be extremely careful with your probing, picking up and discarding trash, and ALWAYS COVER YOUR HOLES.

AGAIN...Remember, with the modern metal detector, modern science has given us a valuable and exciting way to search the past for objects of historic and monetary value. Let us consider it a privilege to keep alive by careful and considerate hunting. In many countries of the world today, metal detection and the treasure hunting hobby have been drastically curtailed as a result of inconsiderate actions of treasure hunters who did little more than vandalize!

ASSEMBLY

Figure 1.
ASSEMBLY AND SETUP DETAILS



KEEP THE CABLE WOUND AROUND THE SHAFT.
To insure no false signals are generated, wrap any slack cable as shown below.



Assembly of this unit is easy and requires no special tools. The only assembly required is to attach the search coil to the end of the lower stem.

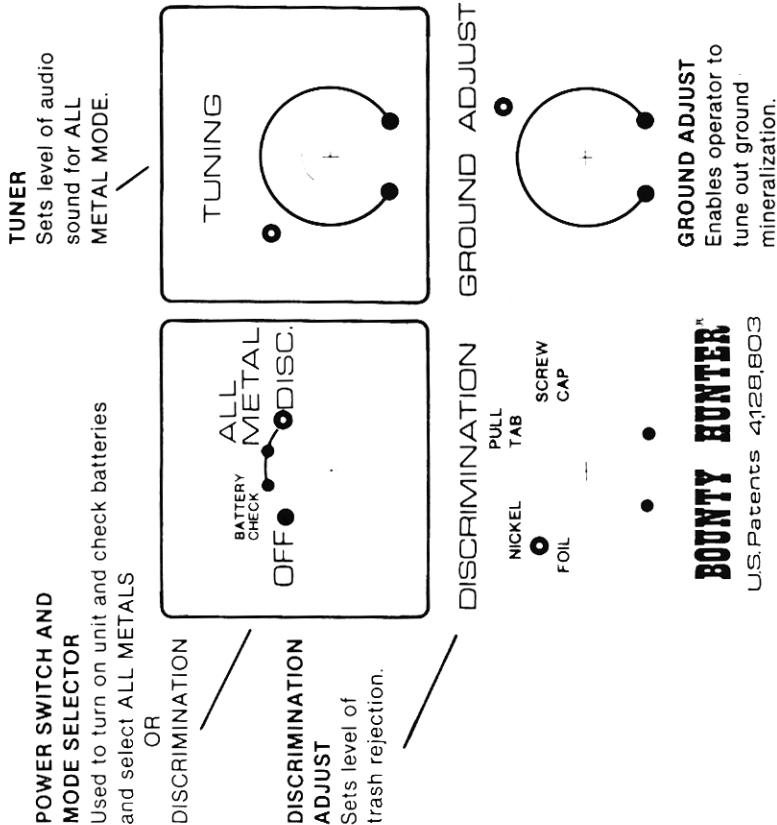
BATTERIES

The unit uses 9-volt transistor radio batteries (Eveready #216 or equivalent).

Access to the batteries is gained by pulling out on the battery doors located on the bottom of the control housing.

CONTROLS

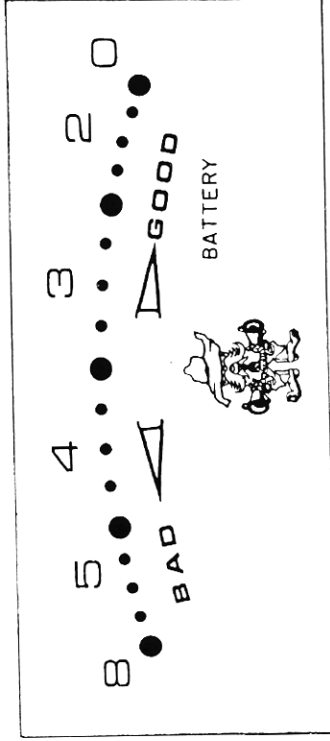
The following is a picture of all the controls and switches on your unit and their functions.



BOUNTY HUNTER[®]

U.S. Patents 4,128,803

METER



AS DEPTH METER

In ALL METAL/DEPTH Mode of operation. Indicates approximate depth of coin.

AS BAD-GOOD INDICATOR

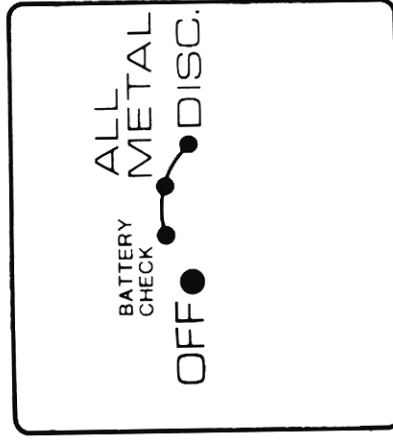
In DISCRIMINATION Mode if you get movement to right the object is good.

AS A BATTERY INDICATOR

When the needle falls within the good section the battery is ok.

BATTERY TEST

Your unit uses two 9-volt transistor batteries (Eveready No. 916 or equivalent). To test your batteries, switch power switch to BAT check. The needle must fall within the good on the meter.

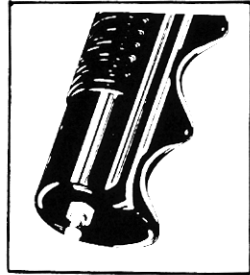


PUSHBUTTON TUNING AND MODE CHANGE

PUSH BUTTON TUNER/MODE CHANGE SWITCH

Convenient Thumb-Push Button in the tip of the handle may be pressed momentarily to re-establish the tuning threshold... OR... TO CHANGE MODES... It is not necessary to change the Mode Select switch each time. If searching in the ALL-METAL VLF Mode, depressing the push-button switches the unit to the VLF DISC. Mode and keeps it there for as long as the button is depressed.

If the Mode Select Switch is placed in DISC Mode, the reverse is true. Therefore, searching can be done in DISCRIMINATE but pinpointing is accomplished in ALL-METAL by simply holding the button depressed.

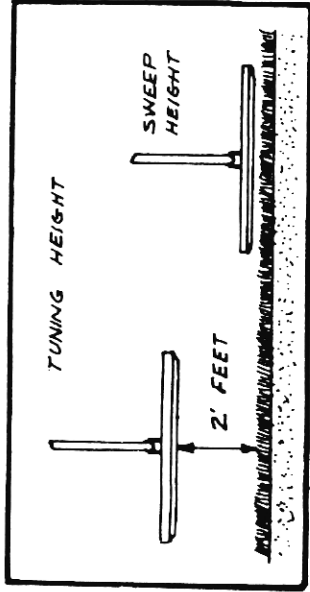


Remember 95% of all detector malfunctions are either due to faulty batteries or poor connections at the battery clip. Always check your battery condition if you feel your detector is not working properly. After you have connected and unconnected your batteries several times the prongs on the clip lead may spread apart or the prongs on the battery itself may be spread. Gently squeeze these prongs together with your fingers to insure a good snug fit.

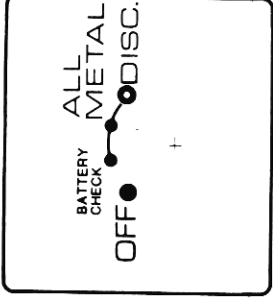
Anytime you are going to store your detector make sure you remove the batteries. Storing the batteries in your refrigerator is the best place for them.

TUNING

Hold your unit so that the search coil is about two feet above the ground and is not near any metal objects.



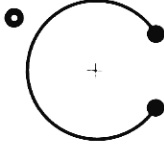
1. Depress and hold push button. Turn power switch to ALL METAL position. Release push button.
2. Adjust audio control until sound is just heard. When the unit is adjusted in this manner the unit is at its most sensitive setting.
3. Depress and hold push button in. Set Ground Adjust to "0", release push button. This is a preliminary adjustment.
4. With Mode Switch in the ALL METAL/DEPTH position you will detect all metals and also be able to measure depth of coins up to eight inches deep.
5. To ignore unwanted items, set mode switch to DISCRIMINATE. Set DISC ADJ to desired level of trash rejection. This Mode features silent operation with Audio response only to accepted targets.



DEPTH READING

This is accomplished only when the mode switch is in the ALL METAL position and is most accurate when the unit is correctly ground adjusted. Depth reading is only accurate on coins. Rusty small objects may show shallower than they really are. The units depth reading is calibrated only to the eight inch search coil.

GROUND ADJUST



GROUND ADJUST

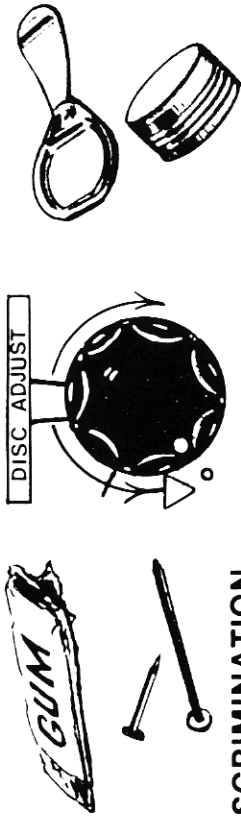
The ground adjust control should be set when you are in the ALL METAL position.

When unit is properly ground adjusted you will get no change in sound or meter reading as you lower search coil to the ground or raise search coil from the ground.

To properly adjust ground first make sure unit is turned with mode switch in ALL METAL Mode. Adjust for slight sound so that you will be able to tell if sound goes away as you lower search coil to ground. After you have turned your unit with search coil in the air, lower search coil to ground and raise back up. If, while lowering your search coil to the ground you got an increase in sound, turn ground adjust control counterclockwise (left), if you get a decrease in sound or the sound went away altogether turn ground adjust control clockwise. When making these adjustments only turn control small increments at a time.

After you make an adjustment depress push button on handle to retune. Repeat the procedure of lowering search coil and adjusting ground adjust control until you get no change in sound as you lower the search coil to the ground. As you get less and less change in sound move the ground adjust less and less to avoid overshooting your no change in sound point.

DISCRIMINATION



DISCRIMINATION

In this mode you will be able to tune out items that you don't want to find depending on the level of discrimination you choose.

In addition to turning out unwanted targets you will get a good or bad indication on the meter.

EXAMPLE: Try this with search coil in the air so that you don't have to be concerned with ground interference. With Disc. set to Min., increase until foil is rejected. Pass a piece of tin foil by the coil, there will be no sound and you will get meter movement towards bad. Pass a quarter by the search coil and you will get an increase in sound and meter movement towards good.

When switching to the DISCRIMINATE Mode, many unwanted items are rejected **AUTOMATICALLY** (will fail to generate a signal)! the drawing above shows the sequence of rejection using the DISCRIMINATE Adjust control.

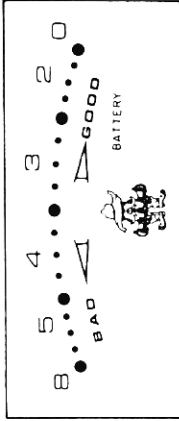
FOIL (Includes gun, candy, cigarette wrappers, and miscellaneous thin gauge scrap.)

PULL-TABS (From aluminum drink cans). Unlike other detectors, there is negligible loss of sensitivity (depth capability) when changing from the FOIL level to PULL-TAB level. However, at this level, as with other manufacturers discriminator, the **NICKEL COINS** can no longer be detected. Also, because of the shape and nickel content some rings may be bypassed.

SCREW CAPS IN THE SCREW CAP level, some sensitivity is lost, so it is recommended that, for maximum performance, you discriminate at no higher than the **PULL-TAB level** unless the search area is heavily strewn with **SCREW CAPS**. In fact, the best rule of thumb is always to use the lowest level of discrimination possible for a particular area.

GOOD-BAD INDICATOR

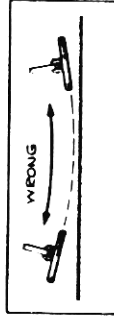
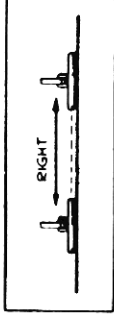
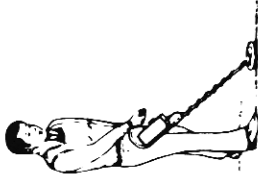
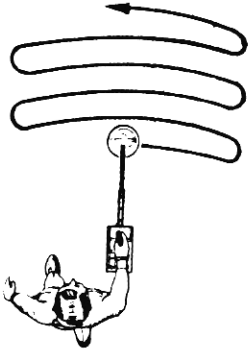
When you have the Discriminator level set to **TIN FOIL** pull tabs will show good since you haven't tuned them out. When you have the discriminate level set to **PULL TABS** the large aluminum screw caps will show good. Also when you are set to the **PULL TAB level** most gold rings and all nickels will show bad.



IN THE FIELD

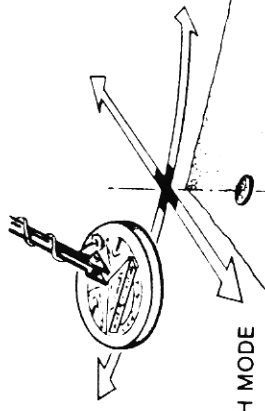
The detector should be held in a position that is comfortable for you. Sweep the detector from side to side in about a three foot arc. The Bounty Hunter does not need to be hurried, so go at a pace that doesn't wear you out.

Sweep in a slightly overlapping pattern as shown. Use as you would any normal detector — the search signal should "peak" as the target center is passed. Try to keep the search coil parallel to the ground at all times and avoid lifting the coil off the ground at the end of each swing. This will prevent loss of detection of some deeper targets, since you are putting more distance between the coil and the target on a careless swing.



PINPOINTING THE TARGET

When operating with the 8-inch coil, if a target is located generally with a side-to-side sweep, the exact location may be determined by also passing the coil in a forward and back sweep as shown at the right.



Using the ALL METAL/DEPTH MODE

To pinpoint or locate a target which doesn't peg the meter and audio, simply move the coil around to find the point where the loudest audio and highest meter reading is given. The target will be right below the center of the coil. If the target response is so strong it pegs the meter and audio, simply push the tuning button momentarily over the strongest signal. This will tune out most of the response to the target and the detector will go totally quiet if it is moved away from the target. It may be necessary to retune a couple of times to almost totally tune out the target.

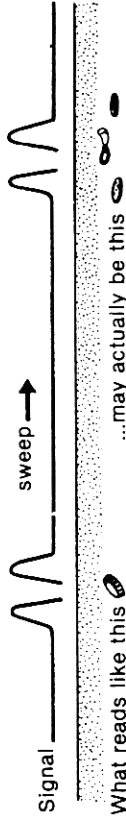
DETECTION TIPS

NOTE: The search coil must be moving to detect a target using the DISC. system. However, the detector operates very effectively at slow sweep speeds and with a little practice, you can pinpoint in the DISC. MODE.

The DISCRIMINATION MODE is not affected by ground mineralization, and when used at the beach it will go from wet sand to dry and back without changing tune. The DISCRIMINATE MODE is recommended for areas of heavy surface trash. Any level in this mode will reject small surface area targets such as wire, nails, tacks, rivets — that to other detectors may look like coins. Larger junk targets are easily identifiable because of their erratic signal or widespread signal area.

Often you will receive a signal from a target that is difficult to "Read" to really determine what it is. What may seem to be a bad target because of the signal pattern, may be a combination of targets.

Lets take an example: With the detector set in the DISC. MODE and DISCRIMINATE level set to reject Pull Tabs.

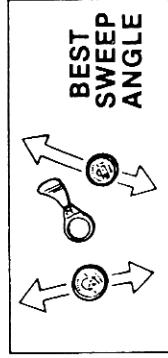
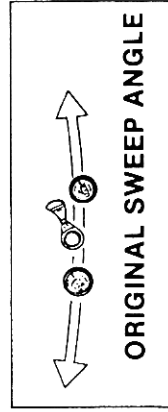


With the audio signal produced, at first you may be tempted to pass on and forget it. Don't. A situation like this may be worth an investigation.

1. Switch to the "ALL METAL" (VLF) MODE for pinpointing
2. Sweep the search coil across the target area in both directions to see if you can isolate the signal into more than one target.

3. If you do determine that there is more than one target present, try sweeping the coil over it at a more favorable angle in the DISCRIMINATE MODE to get a more reliable reading.

For example:



REJECTING THE STEEL BOTTLE CAP

While searching in DISCRIMINATE, an iron bottle cap may "blip", but can be identified quite easily.

Once a target signal has been received, take notice of its audio strength and your sweep direction. Now sweep over the same target at 90° to the first sweep and compare the strength to the first response. If the signal diminishes at all, you may leave it for a bad target (iron bottle cap). However, if it remains strong, it is a good target. With very little practice, this procedure will become second nature and you will begin to experience the real joy of using your detector.

TARGET SIGNALS

From time to time, you will acquire a good sounding signal that seems to pass all the tests for a coin or other valuables. It will be loud, clear and positive. In fact, targets like this are usually objects having a large surface area and may consist of an alloy or plating that will cause the detector to respond to the non-ferrous portion.

Among these may be aluminum containers, such as beer and pop cans, or a composite item such as a discarded alarm clock.

The big give-a-way to this kind of signal will be its size, both in ground area and signal strength. With practice, you will soon discover the sound response can tell a lot. Usually, a coin gives a good solid sound regardless of sweep direction. When checking a target, listen to the SIZE of the sound in the ALL METAL MODE. A large target produces sound over a greater area than does a single coin.

Hot Rocks: On all motion type detectors, you will find some targets that read "good" in the MOTION DISCRIMINATION MODE, but when you switch to the "ALL METAL" MODE to pinpoint, you find that the target had "nulled out" or caused the ALL METAL MODE to "go quiet" when directly over this target. This is because you have located what people call "HOT ROCKS". The hot rocks are objects that are less conductive than the ground you are hunting.

CARE AND SERVICING PROPER CARE FOR YOUR DETECTOR

Metal detectors are sensitive electronic instruments. Although it does not have to be babied, reasonable care must be taken to help ensure a long trouble-free life for your detector.

KEEP IT CLEAN... Take a few minutes after each use to remove dirt and dust. Wipe the housing and wash the coil, especially if it has been dipped in salt water. A plastic bag over the control box at the beach will help protect the unit from sand and prevent corrosion due to salt air.

KEEP IT COOL... Never store your detector in an extremely hot environment, such as an automobile trunk in the summer, for extended periods of time. The prolonged heat will not only shorten battery life considerably, but can cause electronic components to breakdown.

KEEP IT SAFE... Never transport your detector in such a manner that will subject it to extreme vibration or shock. The unit may be cushioned by wrapping it in a blanket or by putting it in a carrying bag or case designed for the purpose.

COIL... The coil is waterproof and may be submerged in either fresh or salt water. Caution should be exercised to prevent water from entering the chassis. After the coil is used in salt water, the coil should be rinsed well with fresh water to prevent corrosion of the metal parts.

EARPHONES... The use of earphones will benefit you in two ways. Most earphones will very effectively block out most of the ambient noise, such as traffic noises and wind noise, which will enable you to better hear the fainter signals caused by the deeper targets. Secondly, using earphones will greatly extend the battery life, since it takes much less power to operate them. Any good 8 or 16 ohm set with 1/4 inch stereo jack will do.