

VLF/TR 840



Eight Inch Coplanar coll, waterproof & lightweight



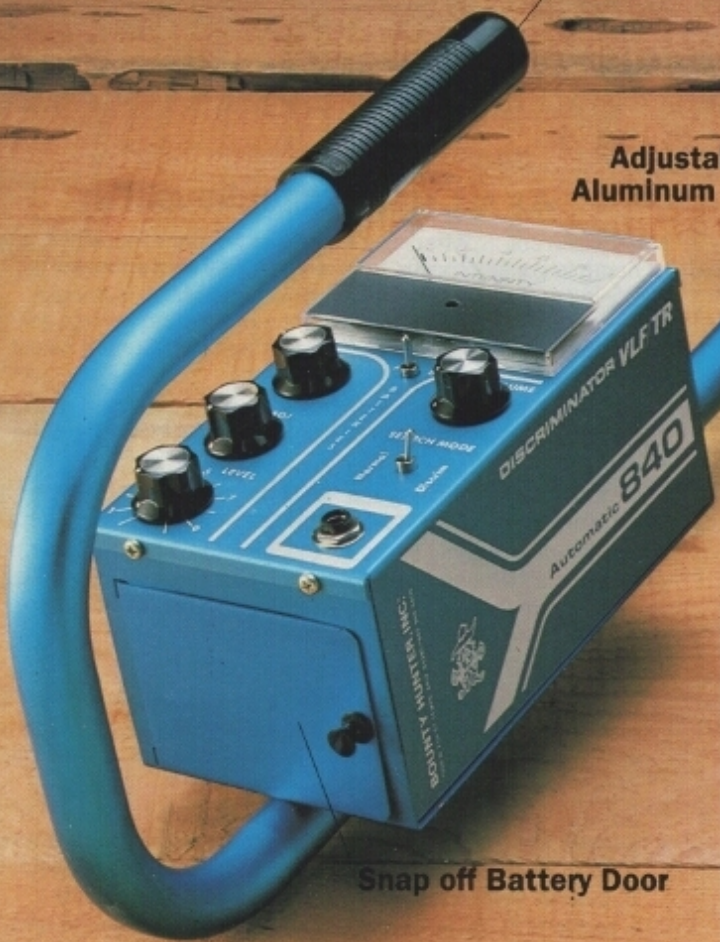
Push Button Tuner

Adjustable, Aluminum shaft

Typical Depth Range* 840 W/8" Coll

Test Objects	Distance from Coil	
	From	To
Dime	5"	9"
Penny	6"	10"
Quarter	7"	12"
Half Dollar	8"	13"
Silver Dollar	9"	14"
3½" Jar Lid	15"	19"
Cannon Ball	22"	26"

*These performance figures are based upon Air Tests performed in our laboratories. While these figures do not necessarily represent how the detector will operate in the field, they are given as an aid to the buyer to show comparative performance relative to our own instruments.



Snap off Battery Door

VLF/840

- 2½" Side mounted speaker
- Tuning Control
- Ground Adjust control
- Discriminate Level Control
- 3½" Intensity meter
- Battery Check Switch on/off volume
- Mode select switch
- ¼" Headphone Jack

***Lifetime Warranty**

VLF/TR/840

BH-3000

SIMPLIFIED OPERATING INSTRUCTIONS

These simplified instructions are merely intended to be a quick introduction to the detectors operation. For the most accurate and successful usage, it is imperative that the detailed operating instructions be read and understood thoroughly.

Hold unit so coil is approximately 2 feet off the ground and away from any metal objects.

1. Place "Discrim"/"All Metal" mode switch to "All Metal" position.
2. Turn the On/Off-Volume control fully clockwise.
3. Depress the "Push Button Tuner" button, (which is located at the tip of the handle).
4. While holding push button depressed, rotate the tuning control until the sound just starts (Threshold) and release button.
The unit is now fully tuned, and is ready to be ground adjusted.
5. Lower coil to the ground...
 - A. If the sound increases, raise the coil back up to the 2 foot level and turn ground adjust knob counterclockwise (approximately $\frac{1}{4}$ turn.) Depress and release "Push Button" to re-establish tuning threshold.
 - B. If the sound decreases, raise the coil back up to the 2 foot level and turn ground adjust knob clockwise, (approximately $\frac{1}{4}$ turn.) Depress and release "Push Button" to re-establish tuning threshold.

Repeat step A or B until you obtain the least amount of change in sound when going from "Air" to "Ground". Once this is obtained your unit is fully "Ground Adjusted" in the "All Metal" mode.

6. To Discriminate—place "Discrim"/"All Metal" mode switch to "Discrim" position. Depress & release "Push Button" to re-establish tuning threshold. Lower coil to the *position you are going to search in*, depress & release "Push Button".
Note: Always tune discriminate mode when coil is in the position you are going to search in.
7. Set Discriminate Level Control to desired position.

By switching to the "Discriminate" Mode, many unwanted items are rejected automatically. These items include foil, wire, nails and any small size linear scrap.



The drawing to the left shows the sequence of rejection using the Disc. Level Control. Each instrument is individually calibrated. Levels may vary slightly from what is shown, but the sequence is still the same.

(After setting discriminate level to desired position, depress & release "Push Button" to re-establish tuning threshold).

VLF/TR 840

The VLF/TR 840 is a VLF (Very Low Frequency) discriminating metal detector, utilizing the inductively balanced Transmit/Receive (TR) technique to provide excellent stability and sensitivity in an all purpose instrument.

In the All-Metal mode, not only are all metals detected, but ground mineralization is rejected to allow operation in all types of soil conditions.

In the "Discriminating" mode the VLF 840 is an ideal detector for the serious coinshooter, allowing the operator to control the amount of rejection of unwanted "JUNK" targets. Rather than a good/bad indication, the VLF 840 nearly ignores unwanted targets, yielding no audio tone as the coil passes over them.

840 SPECIFICATIONS

1. Operating Frequency	6.75 KHz
2. Audio Frequency	480 Hz
3. Operating modes	VLF/All Metal, TR/Discriminate
4. Ground Adjust	Single turn adjustment
5. Output Indication	3 $\frac{1}{2}$ " Meter 1 M.A. Movement
6. Speaker	2 $\frac{1}{4}$ " 16 Ω impedance
7. Battery Current Consumption	
A. No sound	12 MA
B. Normal Operation (Threshold)	16 MA
C. Full sound	38 MA
8. Battery Supply	2 ea. 9 Volt
9. Battery Life	
A. Carbon Zinc	20 Hrs
B. Alkaline	36 Hrs
10. Battery Test	Yes—two position switch
11. Coil Diameter	8" inch, Ultra wide scan Coplonar loop, waterproof, lightweight
12. Optional Coil(s)	6 inch 12 inch
13. Weight with batteries	3 lbs 8 oz

VLF ALL METAL/GROUND ADJUST

Mineralized soil... Whether it's lightly or heavily mineralized, a loss of depth is going to occur, from a slight loss where the soil is lightly mineralized, to a serious loss where the soil is heavily mineralized. No matter who makes the metal detector, it's going to happen... Unless the metal detector has the "Ground Adjust" feature like the VLF 840.

When the unit is "Ground Adjusted" it simply means the unit has been electronically adjusted to eliminate the effects of ground mineralization.

Therefore, when searching the "All Metal" mode after the unit has been "Ground Adjusted" you can be assured of maximum depth.

Note: When searching in the TR Discriminate mode the user does not have the "Ground Adjust" capabilities, therefore, depending upon the extent of mineralization in the soil, the loss of up to all or nearly all depth can be expected.

The VLF 840 is shipped with an 8" coil.

- 8 inch coil is what could be called a general purpose coil. It's especially desirable for searching for coins and jewelry. Maneuverability and pinpointing ability is very important for this type of hunting.
- Six and Twelve inch coils are available as accessories. In general, the smaller coil (six inch) is more sensitive to smaller objects while the larger coils (eight to twelve inch) will detect at greater depths with less sensitivity to smaller objects.

The twelve inch coil is ideal when added ground coverage and more depth is desired on longer items such as relic or cache hunting.

MONT'S RELIC JUNKTION

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