

@ '73

Charles Garrett's
BOOK ON DETECTORS
and
Treasure Hunting Guide

\$1.00



Dear Fellow Treasure Hunter and Hobbyist:

Treasure Hunting is America's fastest growing family hobby...and I am proud to be a part of it. During the past 20 years I have witnessed the growth of treasure hunting from the activities of a small group of professionals into a great and all-encompassing family hobby covering many different fields of interest. Coin hunting, nugget shooting, prospecting, bottle hunting, relic hunting, cache hunting and general treasure hunting are all very much a part of this great American hobby.

We, at Garrett Electronics, believe the key to successful treasure hunting is a carefully selected, quality-built metal detector. We are proud to offer our all-encompassing line of metal/mineral detectors which represent better than twenty years of design, testing and customer usage. We believe we are the leader in quality metal detector instrumentation and our products set the standards of the industry.

Within the pages of this book you will find the fruits of these years of experience. We invite you to walk with us through the world of metal detectors and the family hobby of Treasure Hunting. We offer our secrets and our years of enjoyment in what we believe to be the most rewarding American activity. Join us...the treasures of your great American heritage await you!

Sincerely,

A handwritten signature in cursive script that reads 'Charles Garrett'.

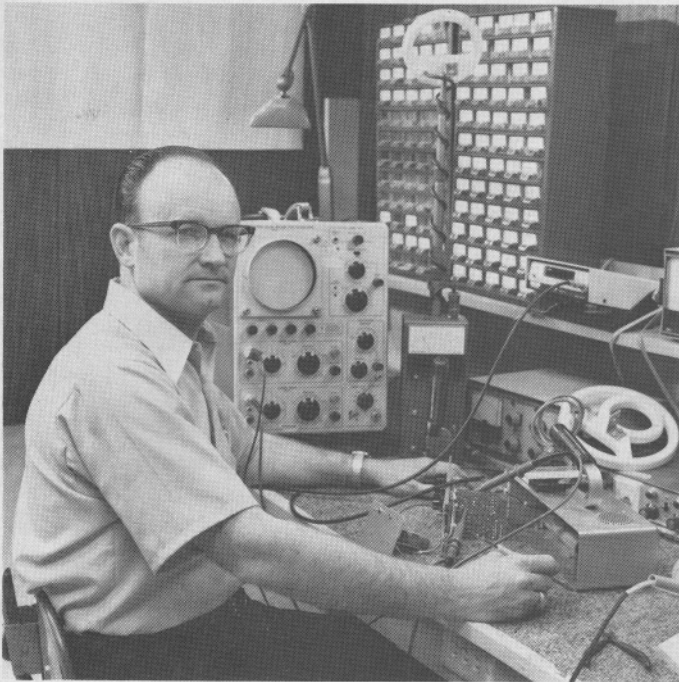
Charles Garrett

INTRODUCING

CHARLES GARRETT

PRESIDENT AND CHIEF ENGINEER OF GARRETT ELECTRONICS

Recognized internationally by his colleagues as the foremost authority on all metal-mineral detecting circuitry using advanced electronics design.



While with the Research and Development department of Teledyne-Geotech, Garrett designed many electronic circuits and instruments for use in both underground and marine geophysical exploration. One program was the electronic circuit design and testing of an underground tunnel and cave detector. This device was designed for the Army to locate enemy underground operations and ammunitions storage facilities.

Further studies of the earth and its geophysical characteristics were obtained when Charles Garrett was responsible for the electronic circuit design and testing of a servo-driven stable table. This is an earth motion isolation platform electronically driven so that the platform remains stationary even though the ground under it may move or vibrate. This table was used for the testing of sensitive seismometers which measure earth motion which is many thousands of times smaller than man can physically detect.

Garrett Electronics had its beginning in 1947 when Charles Garrett first began his treasure-hunting exploration with an Army mine detector. Through the years to follow, he used many of the commercially available instruments and came to know their advantages and disadvantages. Following a four-year Navy tour of duty during the Korean conflict, Garrett obtained from Lamar State College in Beaumont, Texas, his Bachelor of Science Degree in Electrical Engineering, specializing in electronic circuit design. During the next several years he worked with Texas Instruments and Teledyne-Geotech. Garrett recognized that little had been done to advance the state of the art in metal detector electronic design. Together with his experience with many different types of commercial and military detectors and his electronic circuit design experience, he envisioned the perfect detector which he designed and built.

While with Texas Instruments, he designed airborne radar and spacecraft circuitry. One of his first assignments was to design the electronic scanning screens for TI's forward-looking, ground-hugging aircraft radar. When aircraft such as the F111 is flown at altitudes as low as fifty feet, these scanning templates outline the terrain in order to alert the pilot of approaching obstacles.

Later, Garrett was assigned to the Space and Electronics division at Texas Instruments. One of his responsibilities was to design the solid-state amplifiers and power supplies for a data encoder which was used in the Mars-bound Mariner II spacecraft. After a four-month journey through space the spacecraft performed as planned.

Further electronic application was forthcoming when Garrett was responsible for the design of the seismograph which was carried and planted on the moon by the Apollo astronauts. This device detected moon quakes and other seismic disturbances.

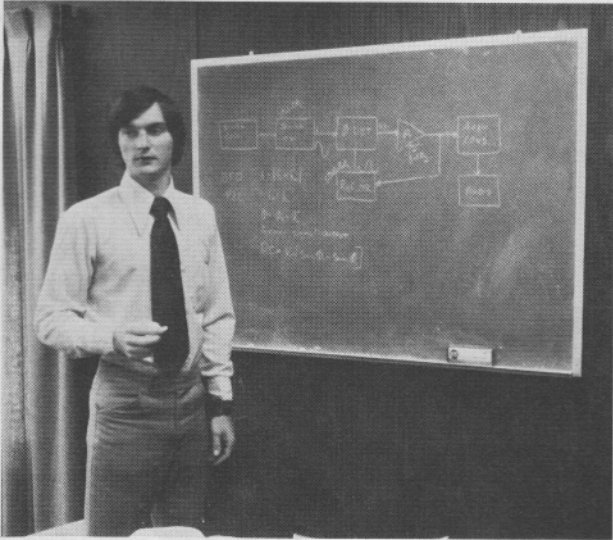


THIS SEAL OF QUALITY IS RECOGNIZED INTERNATIONALLY AS CHARLES GARRETT'S PERSONAL STAMP OF APPROVAL. ONLY PRODUCTS OF THE HIGHEST QUALITY RECEIVE THIS SEAL.



GARRETT RESEARCH AND DEVELOPMENT NEWS

All too often, metal detectors are just "built" with no thought given to testing, analyzing and designing the detectors. This is not the way of life at Garrett Electronics. We *know* metal detectors *must* be designed to operate over *all* types of mineralized ground conditions. We know that detectors must be designed to perform perfectly during any type of searching and under all possible climatic and environmental conditions. We know the instruments must offer simplicity in design with no "gimmicks" and useless controls or features. And, we know that these instruments must be designed to last for years with no premature failure.



Robert Podhrasky, Head of Garrett's Detector Electronics Division, received his Bachelor of Science Degree in Electrical Engineering from the University of Texas. Advanced studies, work with the University's Applied Research Laboratory plus four years with Garrett has equipped Bob with the detector electronics background necessary to insure Garrett's standards remain the highest in the industry.



Here, Bob Podhrasky and Charles Garrett evaluate Garrett's latest instruments. Soil parameters and conditions must be fully tested and evaluated in all areas where Garrett instruments will be used. The pictures below are typical of the extensive and thorough program of detector development which assures Garrett owners that they are using the best and most used-tested instrumentation possible.



POPULAR TYPES METAL - MINERAL DETECTORS

BEAT FREQUENCY (BFO) METAL AND MINERAL DETECTORS

A Beat Frequency Oscillator (BFO) detector is a constant volume audio, frequency-change, all-purpose, metal/mineral detector. When this instrument is operating, the speaker sound remains at constant volume when tuned in the metal mode. Its speaker tone or frequency speeds up for metal identification or slows down for mineral identification. A carefully-designed and quality-built BFO with a full complement of search coils is the only detector capable of performing all phases of treasure hunting, including prospecting, ore sampling, and metal and mineral identification. Gold nugget and placer deposit detector signals may be successfully distinguished from signals produced by black magnetic sand. Coin hunting, relic hunting, building searching, beachcombing, and general treasure hunting present few restrictions. Deeper searching for caches and bottle dumps is accomplished with the larger coils. The BFO is the more difficult instrument to learn to use, but its capabilities and wide tuning range make it capable of performing every task.

TRANSMITTER RECEIVER (TR) METAL DETECTORS

A Transmitter Receiver (TR) detector is a fixed audio frequency, loudness-change metal detector. When this instrument is operating, the sound is barely audible. Its audio sound becomes louder whenever metal is detected. The TR can be operated "quiet" (no sound) with reduction in sensitivity. A carefully-designed and quality-built TR permits successful operation over a wide range of general treasure hunting requirements.

The TR is capable of performing quite well in the fields of coin, cache and relic hunting. Building searching, beachcombing and general treasure hunting can be readily accomplished. The TR's coil construction prevents 100% positive ore and mineral identification. Physical weight restrictions and ground minerals prevent the use of extra large search coils for deep searching. The TR is the easiest detector to learn to use because of its simple tuning method and "quickness" of response. It does, however, require more frequent tuning adjustments due to variations in ground minerals.

DISCRIMINATOR (ACCEPTANCE OR REJECTION) DETECTORS

Discriminating-type detectors generally utilize BFO circuitry which produces constant audio, frequency-change outputs. The most popular type uses standard BFO speaker operation with a meter that discriminates. Present-day discriminators are capable of up to 95 percent accuracy in "telling" the difference between desirable and undesirable metal objects. The undesirable objects include bottlecaps, nails, gum and cigarette wrappers, and small pieces of iron.

Most manufacturers recommend that discriminators be used primarily for coin hunting in parks where there is little possibility that relics and caches may be buried as these items could be "rejected" by the detector. Since discriminators cannot perform the most desirable functions of the TR and BFO, and since they are generally not as sensitive, the discriminator most often is chosen to be the "second" detector to be used in specific hunting areas.

ADVANTAGES OF GARRETT BEAT FREQUENCY OSCILLATOR DETECTORS:

All Garrett BFO instruments feature our patented "Zero Drift" stability. Only an occasional re-adjustment is required. Single knob tuning and a complete complement of search coil sizes permit complete, All-Purpose hunting. The wide-range tuning control permits excellent operation over mineralized ground. Ore samples respond the same at all points on the coils, making the BFO the only detector offering correct metal/mineral identification.

All Garrett detectors feature the triple-output speaker system. All coils incorporate 100-percent Faraday shielding which completely eliminates interference from wet grass and vegetation. All coils are fully adjustable to any angle for ease of operation. Another original Garrett development is the patented, independently-operated dual coil system. Not only do you realize more from your initial investment (two coils in one), but you gain the ability to change coils with the flick of a switch and to estimate quickly depth and size of the object.

Good-looking appearance, quality design, good balance, built-in reliability, plus ease of operation, together with the latest in advanced electronic circuitry, combine to offer you the very finest All-Purpose BFO detectors that money can buy.

HOW TO TEST FOR QUALITY IN BFO DETECTORS

DISADVANTAGES OF CONVENTIONAL BEAT FREQUENCY OSCILLATOR (BFO) DETECTORS:

- Excessive drift and instability
- Multiple knob tuning controls
- High frequency operation
- Lack of complete range of search coils
- Inadequately-shielded or completely unshielded search coils
- Poor quality construction, poor operation, and high failure rate in the field.

TESTING FOR QUALITY IN BEAT FREQUENCY OSCILLATOR DETECTORS:

Check for "drift" by moving the detector from a hot area to a cold area; or *vice versa*. After a 5 to 10-minute warmup period the detector should become stable enough for field operation. Small and infrequent tuning adjustments are to be expected, but continued "fast" drift would render the detector almost useless. Determine if the BFO has a complete selection of search coils. Test the search coils for "full" or 100% Faraday shielding. Pull green grass from the ground, wet it, then draw it quickly across all areas of the search coil several times while the detector is correctly tuned. If slight erratic sounds are noticed your ability to utilize the full sensitivity of the instrument will be limited. Check for loudness. You should not have to operate the detector at FULL VOLUME in order to hear the detector's signals. An extra amount of sound should be available when you operate on the beach or in other noisy areas. Test the controls, paying particular attention to the smoothness of the tuning control. If it is erratic, or a slight adjustment causes the sound to jump quickly into FULL AUDIO, then you will have trouble keeping it adjusted. Pick up the detector. Look at it. Look at its construction, check its balance and operation. IT SHOULD LOOK AND FEEL LIKE QUALITY!

GARRETT TR

TRANSMITTER RECEIVER

METAL DETECTORS

ADVANTAGES OF GARRETT TRANSMITTER RECEIVER DETECTORS:

The New Breed of Garrett TR Detectors has revolutionized treasure hunting. All Garrett TR coils feature the Total Response (wide-scan) feature. This permits rapid searching with almost no overlapping required. Our new "Clear-as-a-bell" audio system gives a rich, clear tone with no scratchy, erratic noises. You hear every target within the range of the coil. With the Garrett Mineralized Ground Control you can work all ground, both mineralized and non-mineralized, with complete confidence and ease. Garrett TR coils are 100% Faraday-shielded and are not affected by water, wet grass or high weeds. Plastic bags and search coil skid plates are things of the past. All coils are fully adjustable to any angle for ease of operation. Small audio changes can be heard even when the instrument is tuned to operate up in the "medium audio" range of the speaker. Good-looking appearance, quality design, good balance, built-in reliability, plus ease of operation, together with the latest in advanced electronic circuitry, combine to offer you the very finest Transmitter Receiver detectors that money can buy.

HOW TO TEST FOR QUALITY IN TR DETECTORS

DISADVANTAGES OF CONVENTIONAL TRANSMITTER RECEIVER DETECTORS:

- Narrow-scan search coils with small target response areas
- Scratchy and erratic speaker sounds which distort the faint or deep target signals
- Highly reactive to ground mineralization, causing the operator to tune far down into the "quiet" zone which reduces sensitivity
- Non-shielded search coils
- Fixed angle search coils
- Narrow dynamic range speaker systems
- Poor quality construction, poor operation, and high failure rate in the field.

TESTING FOR QUALITY IN TRANSMITTER RECEIVER DETECTORS:

To test for "dead spots" and scan width, adjust the TR to operate correctly. Slide a dime back and forth across the bottom of the coil. How much of the front-to-back width of the coil responded? If there was only a small isolated "hot" area at the front of the search coil, the detector has a conventional, narrow-scan search coil. On Total Response (wide-scan) search coils the "hot" responsive area will extend almost the full front-to-back width of the coil. The audio tone or sound should be pleasant to your ear and not sound harsh or like "static." Does the instrument have a mineralized ground control? To test the search coils for Faraday shielding, pull green grass from the ground, wet it, then draw it quickly across all areas of the search coil several times while the detector is correctly tuned. If slight erratic sounds are noticed, your ability to utilize the full sensitivity of the instrument while operating over grass and weeds will be limited. Check for incomplete shielding by moving the tips of your fingers across the entire bottom of the coil. If you notice any change in the speaker volume, then this coil will give you as much trouble as if it were not shielded at all. Does the search coil have an adjustable search coil angle? Check the dynamic range. Tune the instrument to operate well up into the sound level. Move a dime across the search coil. Can you easily hear the speaker respond to this dime? Test the controls, paying particular attention to the smoothness of the tuning control. If it is erratic, or a slight adjustment causes the sound to jump quickly into FULL AUDIO, then you will have trouble keeping it adjusted. Pick up the detector. Look at it. Look at its construction; check its balance and operation. IT SHOULD LOOK AND FEEL LIKE QUALITY!

GARRETT **ACCEPTANCE REJECTION** **DISCRIMINATORS**

ADVANTAGES OF THE GARRETT DISCRIMINATOR:

The Garrett Discriminator utilizes our patented "Zero Drift", BFO circuitry. Except for only an occasional adjustment the ever-present problem of BFO audio frequency changing is eliminated. The Discriminator has only ONE audio frequency tuning control. The meter is provided with a control knob which permits the operator to "set" the meter to any operating point on the meter face. The meter does the discriminating, while the speaker gives the audio response. This dual method of indication retains the popular BFO metal *versus* mineral identification while the meter gives the "good" or "junk" indications. The Garrett Discriminator features the triple output speaker system, and the search coil is 100-percent Faraday-shielded which eliminates wet grass and vegetation interference. The coil is fully adjustable to any angle for ease of operation. The Garrett Discriminator is offered in TWO configurations. The new "fastback" design permits fast and tireless searching while the Garrett original "curved stem" design provides operator stability that is known the world over.

HOW TO TEST FOR QUALITY IN DISCRIMINATORS

COMMON FAULTS OF CONVENTIONAL DISCRIMINATORS:

- Excessive drift and instability which is common to non-stable BFO's
- Multiple knob tuning (some instruments have up to SIX tuning controls which makes tuning very difficult)
- Unshielded or less than 100% Faraday-shielded search coils which cause wet grass and weed interference
- High frequency operation which increases tuning difficulties and operation over highly mineralized ground
- Audio discrimination which "loses" the true metal/mineral identification capability of the BFO
- Poor quality construction, poor operation, and high failure rate in the field.

TESTING FOR QUALITY DISCRIMINATORS:

Check for "drift" by moving the detector from a hot area to a cold area or *vice versa*. After a 5 to 10-minute warmup, the detector should become stable enough for field operation. Small and infrequent tuning adjustments are to be expected, but continued "fast" drift would render the detector almost useless. Test the search coils for "full" or 100% Faraday shielding. Pull green grass from the ground, wet it, then draw it quickly across all areas of the search coil several times while the detector is tuned, using the recommended operating procedures. If slight erratic sounds are noticed your ability to utilize the full sensitivity of the instrument while operating in grass and weeds will be limited. Check for loudness. You should not have to operate the detector at FULL VOLUME in order to hear the detector's signals. An extra amount of sound should be available when you operate on the beach or in other noisy areas. Determine the number of tuning controls. The greater the number of controls, the greater will be the operating problems. Check for proper "acceptance" or "rejection" of various targets. The instrument should "accept" all coins, including nickels and coins as small as one dollar gold pieces. The instrument should "reject" junk items, such as bottlecaps, nails, gum wrappers, and small pieces of iron. Pick up the detector. Look at it. Look at its construction; check its balance and operation. IT SHOULD LOOK AND FEEL LIKE QUALITY!



Garrett Factory



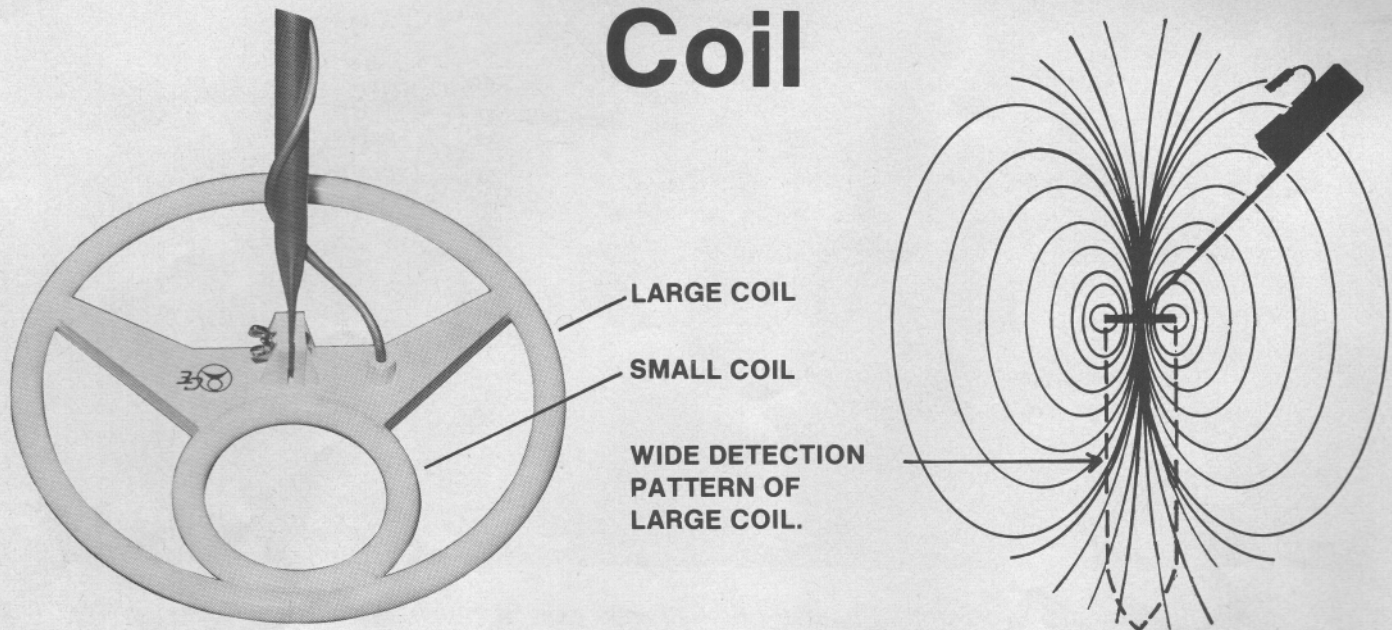
Garrett Electronics' new plant is located one-half mile east of Dallas in Garland, Texas, at 2814 National Drive. This is where the latest innovations in electronic detector development are perfected and produced. Everyone at our new home is dedicated to serve you.

Factory Warranty

All Garrett instruments have been researched, designed and tested by Garrett Electronics engineers who are highly trained in the field of metal/mineral detector electronics. Garrett Electronics guarantees its instruments to be the finest and most dependable products ever offered to the treasure hunter.

Garrett Electronics warrants its products to be free from defects in material and workmanship for a period of two years from date of purchase. Any unit returned to the factory, freight prepaid, under the provisions of the Warranty will be repaired free of charge and returned to the customer freight prepaid. This Warranty specifically does not cover obvious misuse or abuse. Garrett Electronics further promises that beyond the two-year warranty period it will repair any unit returned to the factory, freight prepaid, at factory cost for the lifetime of the instrument.

The Original Garrett DUAL-COIL, America's Most Popular BFO Detector Coil



**INDEPENDENTLY OPERATED GARRETT
DUAL-COIL, PATENT #366225**

**ELECTROMAGNETIC FIELD AND DETECTION
PATTERN OF LARGE BFO SEARCH COIL.**

ALL METAL DETECTOR BFO SEARCH COILS, REGARDLESS OF THE MANUFACTURER, PRODUCE EXACTLY THE SAME ELECTROMAGNETIC FIELDS. THE SHAPE, OR GEOMETRICAL CONFIGURATION OF THE BFO COILS, DETERMINES THE AREA OF TARGET DETECTION.

Many years ago we introduced the "Independently operated" dual-coil system. A small coil (5-inch diameter) and a large coil (12-inch diameter) were rigidly combined to produce two separate and distinct search coils. A small coil such as this 5-inch coil gives best results when the operator is searching for small objects which lie within the first one to two feet of soil. A larger coil such as this 12-inch coil gives best results when searching for larger objects buried more deeply such as "post hole banks", etc. Until the development of our patented dual-coil the treasure hunter had to stop his search and physically change coils if he wanted to do different types of searching. Our dual-coil eliminated all this trouble. Now you just flip a switch and make a one-second adjustment when you want to change. Employing an electronic "grounding point" hook-up method which eliminates all interference, maximum sensitivity is obtained with the dual-coil arrangement. Our dual-coils have now been accepted the world over and have become a byword of the treasure hunter.

In addition to not having to carry around and change different-sized coils, the operator can now fairly accurately determine the size and depth of the object which he is detecting. The small coil generates a magnetic field pattern which does not penetrate as deeply as the larger coil. Thus, as explained on the following page, the operator can literally "read" what is underground before he digs it up.

You will notice in the above right-hand drawing that the detection pattern extends all the way across the coil, the same as our new Total Response (wide-scan) TR detection pattern. Our "full coil-width" detection patterns eliminate any need for "multiple coil" type windings since small metal targets, as well as large metal targets, can be easily detected.

DETERMINE SIZE—DEPTH

HOW DO THEY DETERMINE THE SIZE AND DEPTH OF AN OBJECT?

The Garrett INDEPENDENTLY OPERATED dual-coil system changes the position and depth of the detection pattern allowing you to determine the size and depth of your discovery. See the picture to the right. The letters A, B and C represent metal targets placed at three different depths.

1. Position A. The indications from both coils will be approximately the same. This means the object is near the surface.
2. Position B. The indication from the small coil will be weaker than the large coil indication. This means the object lies near the bottom of the small coil detection pattern.
3. Position C. The small coil will not produce an indication. Thus the object lies below the small coil detection pattern.

The strength of the indication from either the speaker or meter, or both, tells you the approximate size of the treasure. The two coils NEVER interfere with one another.



Coin and Relic hunting in swimming holes and on the beach is accomplished by selecting the correct size search coil. Whenever "hot" detection capabilities are required for small Gold nuggets, simply "flip" the coil-selector switch to SMALL and continue searching.

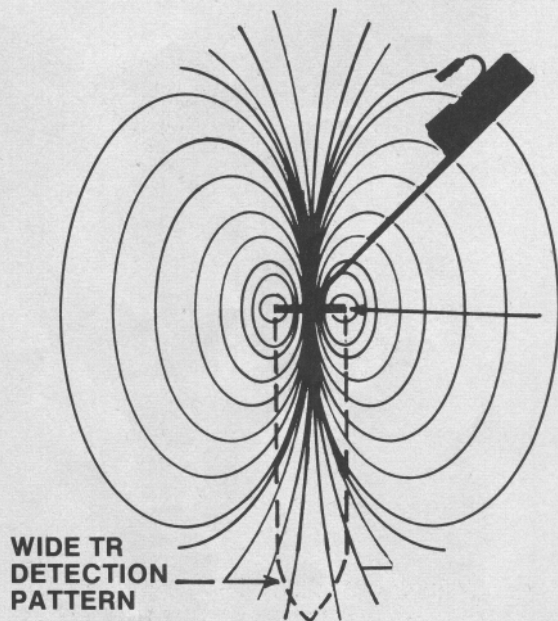


Pin-point accuracy is possible on coins when using the smaller coil. No time or effort is required to change coils. Simply "flip" the coil-selector switch to LARGE and you have that extra depth needed for those post hole banks and relics.

TR (IB) METAL DETECTOR ELECTROMAGNETIC SEARCH COIL FIELD PATTERNS

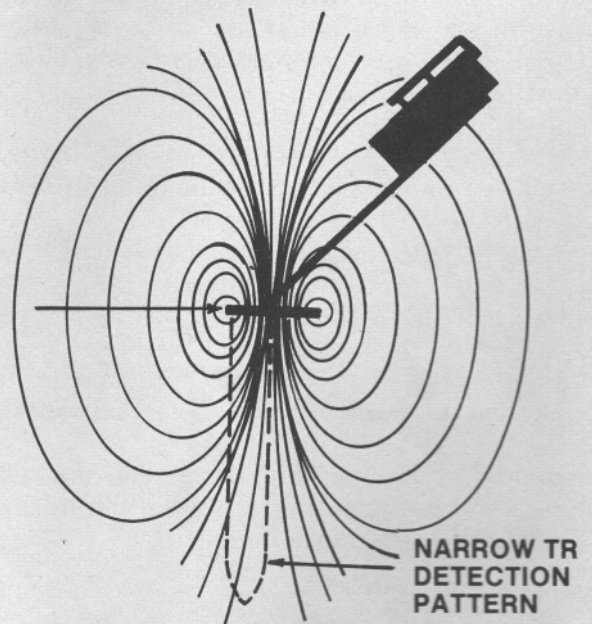
These drawings show the Electromagnetic field lines as they are generated and caused to flow around a detector's search coil. This side view allows you to see the field lines as they circle around the coil and how they are crowded together INSIDE and below the coil.

**TOTAL RESPONSE (wide-scan)
TRANSMITTER RECEIVER**



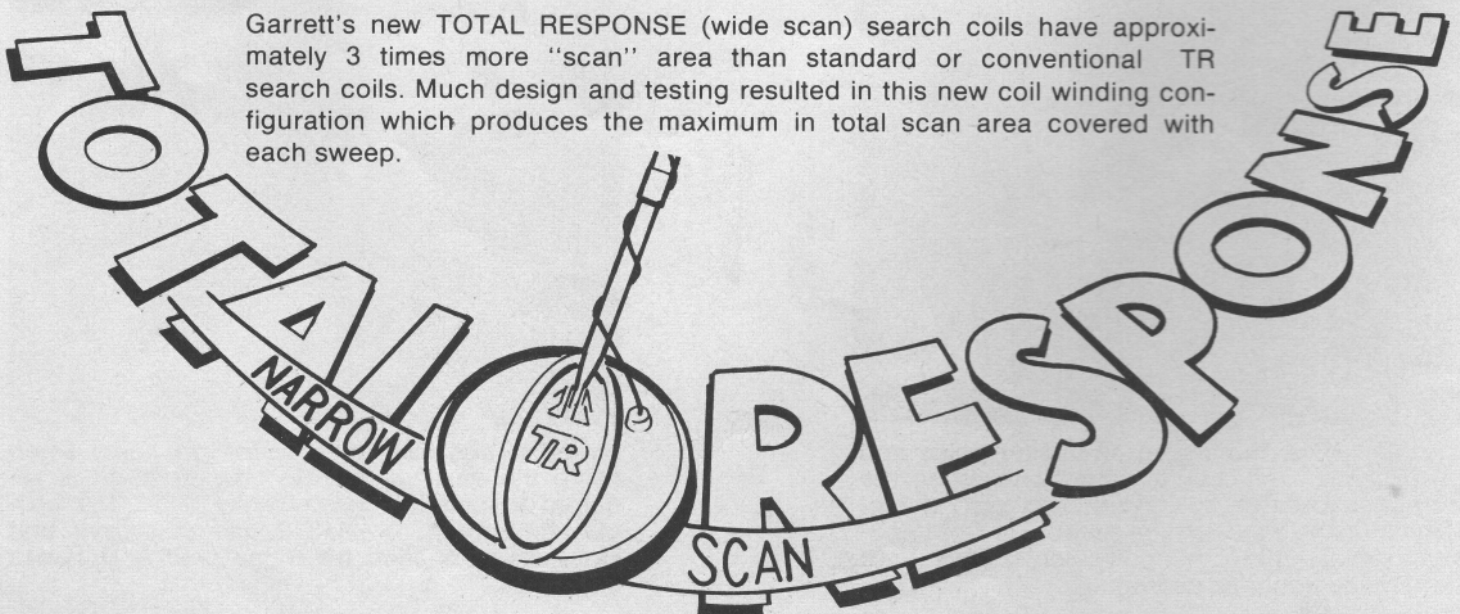
DETECTOR COIL

**CONVENTIONAL or STANDARD
TRANSMITTER RECEIVER**



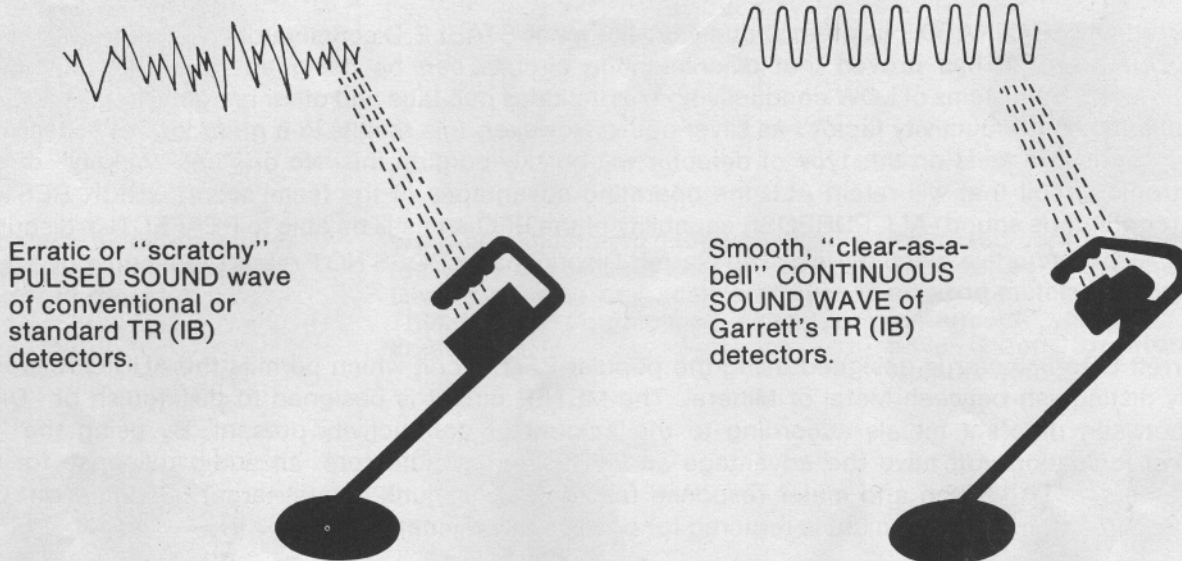
ALL TR METAL DETECTOR SEARCH COILS, REGARDLESS OF THE MANUFACTURER, PRODUCE THE SAME TYPE OF ELECTROMAGNETIC FIELDS. THE SHAPE OR GEOMETRICAL CONFIGURATION OF THE TR COILS DETERMINES THE AREA OF TARGET DETECTION.

Garrett's new TOTAL RESPONSE (wide scan) search coils have approximately 3 times more "scan" area than standard or conventional TR search coils. Much design and testing resulted in this new coil winding configuration which produces the maximum in total scan area covered with each sweep.



TR (IB) METAL DETECTOR AUDIO SOUND SYSTEMS

THESE DRAWINGS SHOW THE DIFFERENCE BETWEEN CONVENTIONAL OR STANDARD TRANSMITTER RECEIVER SOUND SYSTEMS AND THE NEW GARRETT "CONTINUOUS WAVE" AUDIO RESPONSE.



A SMOOTH AND CLEAR SPEAKER TONE IS ESSENTIAL ESPECIALLY WHEN THE AUDIO RESPONSE IS FAINT ON DEEPLY BURIED OBJECTS. THE EAR CAN DETECT SLIGHT "AUDIO" CHANGES MORE EASILY WITH GARRETT'S NEW "CLEAR-AS-A-BELL" SPEAKER TONE. THUS, DETECTION DEPTH IS GREATLY INCREASED.



Here Charles Garrett is coin hunting in a deserted farm yard. Charles is using the new GHOSTOWNER "fastback" model shown in the above drawing.

THE NEW GARRETT (BFO)



DISCRIMINATOR



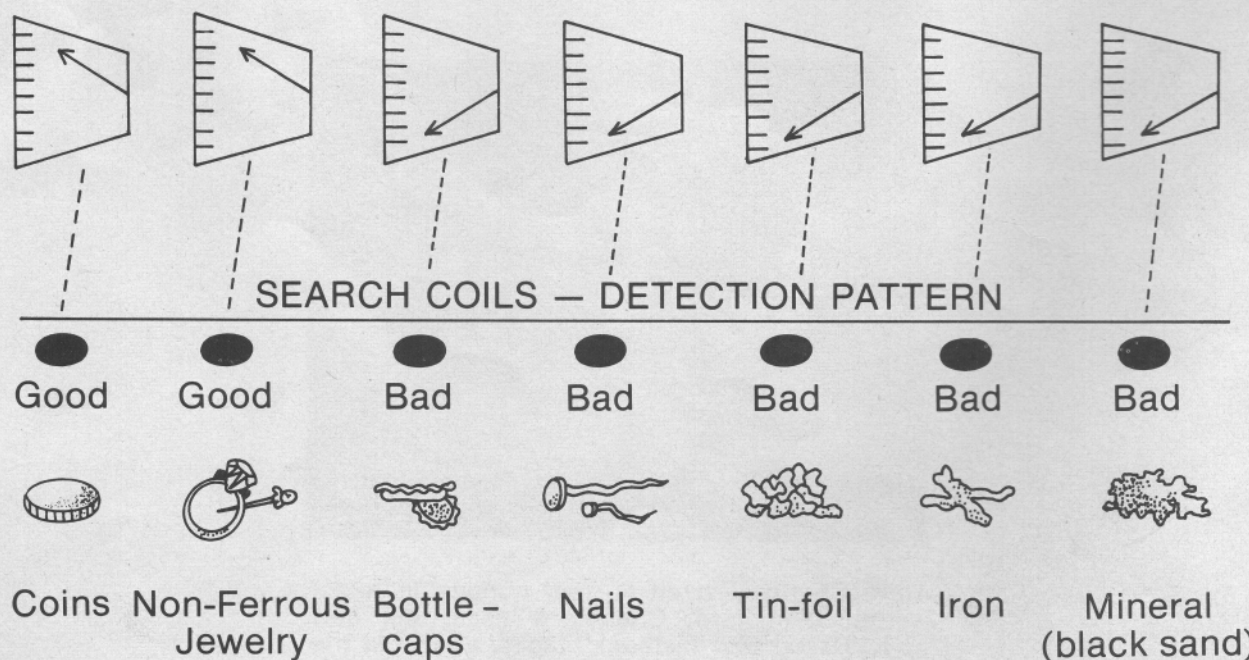
The Garrett DISCRIMINATOR is without question the most STABLE Discriminator ever offered to the coin hunter. Our research has proved that discriminating circuits *can* be designed which will automatically reject all "junk" metal items of LOW conductivity. This includes pull-tabs and other marginal items that contain almost the same "conductivity factor" as silver coins. *However*, this results in a great loss of sensitivity and carefully conducted tests on this type of detector will quickly confirm this. No one can "modify" or design an electronic circuit that will retain ALL the operating advantages of the (semi-silent) QUICK RESPONSE TR, the (continuous sound) ALL PURPOSE capability of the BFO and still be able to PERFECTLY discriminate between ALL conductive metal targets. The Garrett Discriminator DOES NOT reject aluminum pull-tabs, thus retaining all maximum possible sensitivity.

The Garrett Discriminator is designed using the popular BFO circuit which permits the AUDIO response to correctly distinguish between Metal or Mineral. The METER circuit is designed to distinguish or "Discriminate" between different metals according to the amount of conductivity present. By using the "dual" method of indication you have the advantage of TWO different detectors: an audio response for metal-*versus*-mineral identification and meter response for "good" or "junk" metal target identification. Only a one-half-degree of meter movement is required for positive discrimination.

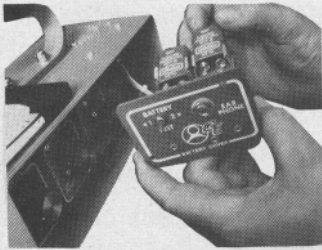
There is NO need for numerous control knobs and adjustments. One tuning control does the tuning and a separate METER control allows you to adjust correctly for "discrimination". The meter circuit is extremely stable, and the audio response utilizes Garrett's famous zero-drift circuit. This quality combination gives the discriminating coin hunter the highest stability possible. The Garrett Discriminator is truly a joy to use.

The Garrett Discriminator is offered in TWO different "stem" configurations. The new "fastback" design permits fast and tireless searching. Garrett's original "curved" stem design provides operator stability that is known the world over.

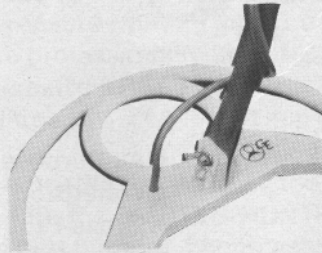
DISCRIMINATOR CIRCUITRY PATENT PENDING



These features are found on the Garrett Hunter Line of Metal/Mineral detectors. They are designed to make your detector the finest in the Treasure Hunting World.



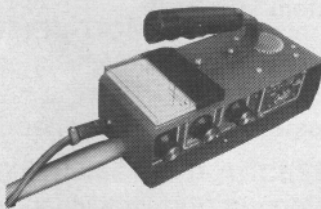
Easy to obtain 9-volt transistor batteries can be quickly installed in every Garrett detector.



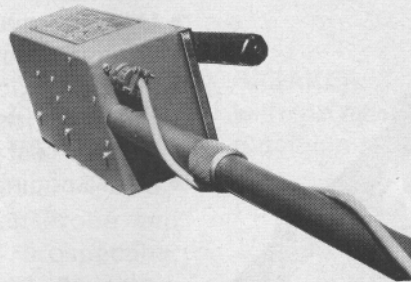
Wing-nut adjustment allows quick removal or adjustment of all Garrett coils to any scan angle. This feature outdates all fixed-angle coils.



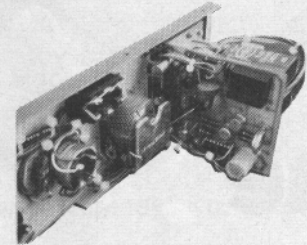
Protected control panel prevents damage to the controls when using or transporting the instrument. Garrett detectors have been granted Patent Number 366225.



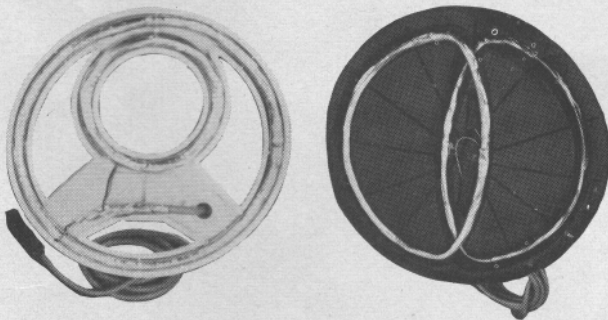
This Easi-View sensitivity meter is installed on the Master Hunter lines of BFO and TR metal/mineral detectors.



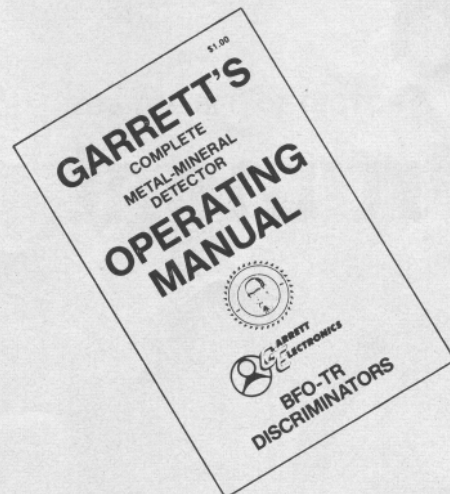
Note the recessed "Hide-a-Way" stem. Obvious improvements like this assure you of our desire to produce the best possible instrument.



Garrett's SOLID STATE Circuits use the latest INTEGRATED CIRCUITRY and are "potted" for stability, longer life, and humidity protection.



The picture above shows Garrett's BFO and TR 100% FARADAY-shielded search coil construction. Unshielded or partially-shielded coils will NOT operate with full efficiency in wet grass or weeds. Notice Garrett's new type of FARADAY shield does not have the small "hot" spot or open gap which is found in standard shield construction. Garrett TR coils are the only shielded TR coils in the industry. We CHOSE NOT to IGNORE these COMMON FAULTS of TR DETECTORS.

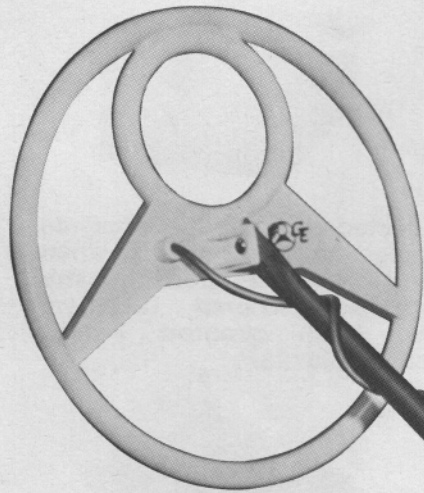


This 50-plus page METAL/MINERAL DETECTOR OPERATING MANUAL is the most complete and instructive operator's manual ever printed. Covers all phases of BFO, TR and Discriminator detectors, including correct operational procedures and mineralized ground operating techniques. Crammed full of Treasure Hunting tips. \$1.00.FREE with purchase of any Garrett detector.

MASTER HUNTER

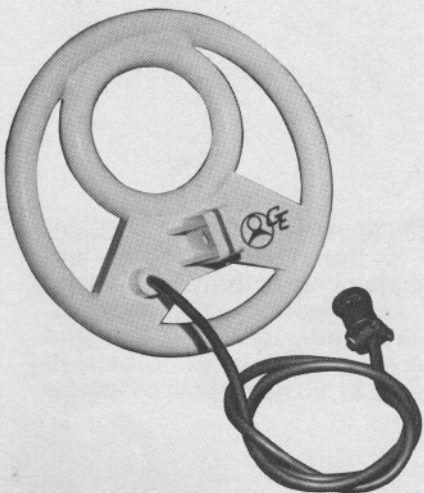
BFO

All Purpose detector



The
Ultimate
BFO
Instrument

- All-Purpose (Constant-Audio Response)
- Waterproof Dual-Coil Search Heads (5"x12" - 3½"x8")
- Grass-Proof; 100% Faraday-Shielded Search Coils
- Independently Operated (Patented) Coil System
- Infinitely Adjustable Meter Control
- Single Control Metal/Mineral Tuner
- Super-Sensitive Easi-View Meter
- Crystal Controlled Oscillator
- Patented Zero-Drift Stability
- Adjustable-Angle Search Coils
- Military Standard Connectors
- Triple-Output Speaker System
- Protected Control Panel
- Complete Instructions
- Battery Test Meter
- Dual-Scoping Stem



OPTIONAL
\$12.50



\$249⁹⁵

BEAT FREQUENCY (BFO) Metal Mineral DETECTOR

The Garrett MASTER HUNTER BFO is exactly what the name says . . . the MASTER of all Beat Frequency Detectors. The MASTER HUNTER has all the advantages of every Garrett BFO model, including the correct coil combination to do each and every Treasure Hunting job. The MASTER HUNTER BFO is actually six detectors in one. It has the 3½-inch coil of the professionally-used NUGGET HUNTER, the 8-inch coil of the Super MINI-HUNTER, the 12-inch coil of the versatile TREASURE HUNTER, the small (3½ x 8-inch) Dual Coil of the famous Garrett COIN HUNTER and the large (5½ x 12-inch) Dual Coil of the tried and tested CACHE HUNTER.

In other words, you can now do ANY treasure hunting job with the MASTER HUNTER BFO and do it better than you can with any other BFO detector. With the MASTER HUNTER BFO you can enter the exciting fields of prospecting, ghostowning, general treasure hunting, cache searching, and coinshooting . . . it's that versatile, that good! With the additional purchase of any or all of the single coil accessories (the 5-inch and 3½-inch coils and the 2-inch nugget probe) you can profitably work the earth's small cracks and crevices for gold and silver. With the purchase of the rapid-scanning 13x24-inch coil and/or the Magnified 24-inch coil you can hunt for the extremely deep valuables such as bottle dumps or veins and lodes of precious metals. You can purchase the MASTER HUNTER in our World-Famous ALL PURPOSE Beat Frequency (BFO) style, complete with Zero-Drift stability and new Triple-Output Speaker system. Do you want to do it all? The Garrett MASTER HUNTER BFO is the detector for you!

OPERATION: The Master Hunter All Purpose BFO metal/mineral detector operates on the constant audio, Beat Frequency (BFO) system, known for its superior stability and versatility.

RECOMMENDED ACCESSORIES: 2-inch Probe and 3½-inch Coil for nuggetshooting and prospecting; 13x24-inch Coil for fast, deep ground coverage; Magnified 24-inch Coil for extremely deep treasure hunting; 5-inch and 12-inch underwater Coils for aquatic use.

ZERO-DRIFT: The Master Hunter BFO comes with the famous original Garrett Hunter Zero-Drift circuit which assures you of unequalled stable detector operation.

SPEAKER: The Master Hunter BFO comes complete with the new Triple-Output Speaker system for greater detection sensitivity and audio response.

POWER PLANT: Three Eveready No. 216 9-volt Transistor Batteries.

COST OF OPERATION: Less than 5¢ per hour.

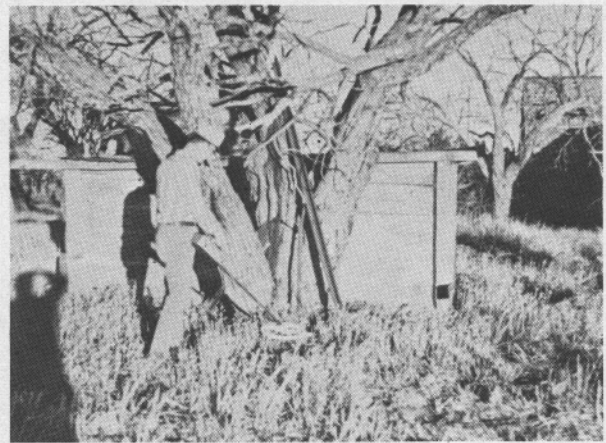
OPERATING WEIGHT: 4 pounds.

FROM THE MOUNTAINS TO THE SEA



Charles Garrett on sandy Texas beach searching for Pieces of Eight. The small dual on the Master Hunter will do triple duty: single coins, relics and small nuggets. Just flip the switch and change the coil size. The Master Hunter can do any job.

THE TOP BFO DETECTOR

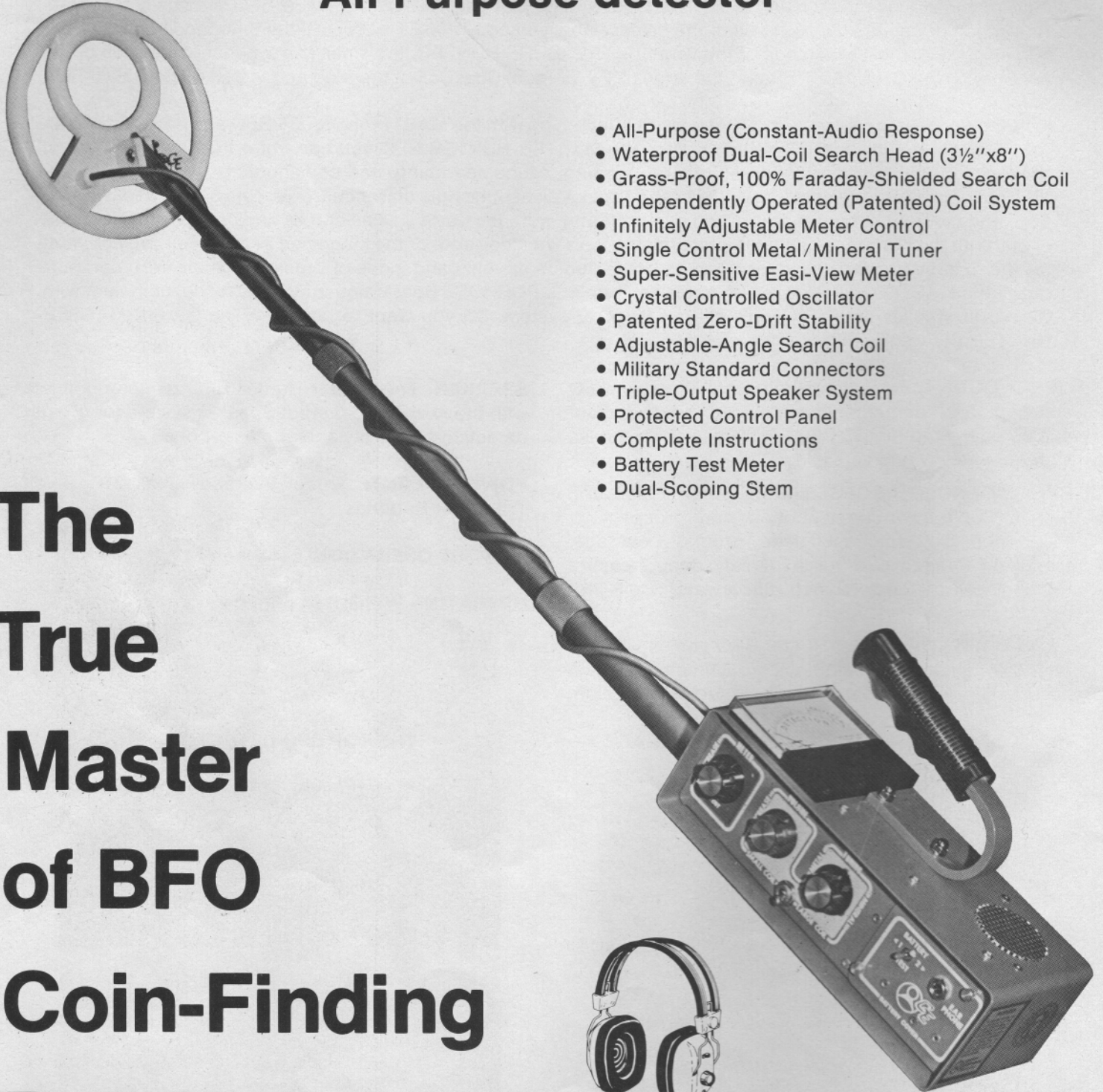


Charles Garrett using the famous All-purpose BFO Master Hunter with large dual coil. Whether you are after buried "pots" or single coins, you have *both* correct coil sizes right at your fingertips.

COIN HUNTER

BFO

All Purpose detector



- All-Purpose (Constant-Audio Response)
- Waterproof Dual-Coil Search Head (3½"x8")
- Grass-Proof, 100% Faraday-Shielded Search Coil
- Independently Operated (Patented) Coil System
- Infinitely Adjustable Meter Control
- Single Control Metal/Mineral Tuner
- Super-Sensitive Easi-View Meter
- Crystal Controlled Oscillator
- Patented Zero-Drift Stability
- Adjustable-Angle Search Coil
- Military Standard Connectors
- Triple-Output Speaker System
- Protected Control Panel
- Complete Instructions
- Battery Test Meter
- Dual-Scoping Stem

**The
True
Master
of BFO
Coin-Finding
Detectors**



OPTIONAL
\$12.50

\$199⁹⁵

BEAT FREQUENCY (BFO) ^{METAL MINERAL} DETECTOR

With great pride, we announce the Garrett COIN HUNTER BFO, the true master of all coin-finding BFO detectors. Coinshooting is one of America's fastest-growing and most popular hobbies. Because of this, we at Garrett Electronics have designed and built the finest possible instrument for the professional coinshooting enthusiast. The proven 3½x8-inch Independently-Operated Dual-Coil has been, without a doubt, the most successful BFO coin-detecting coil ever used by coinshooting professionals. With the 8-inch outer coil the coinshooter can cover large ground areas and, with the flip of a switch to the inner 3½-inch coil, he can pinpoint small objects whether they be coins or small nuggets. The 8-inch coil allows you greater depth and the ability to cover large areas of ground. The smaller but HOT 3½-inch coil allows you to PINPOINT and REJECT much of the junk you do not wish to dig up. The COIN HUNTER BFO comes with the super-sensitive EASI-VIEW detecting meter which adds greater sensitivity to the detector.

When you talk about coinshooting, remember that Garrett has set the pace with its PROVEN SUCCESSFUL 3½x8-inch Dual-Coil. This coil, coinshooting professionals agree, has greater sensitivity to detect those deeper coins. This is just one of the many reasons why the COIN HUNTER is the most popular BFO detector in the coinshooting field.

To satisfy the requirements of fast ground coverage and the attainment of maximum coinshooting depth, look to the Garrett COIN HUNTER. This unit has repeatedly outdistanced all competitive BFO detectors in its class.

OPERATION: The Coin Hunter All Purpose BFO metal/mineral detector operates on the constant audio, Beat Frequency (BFO) system, known for its superior stability and versatility.

RECOMMENDED ACCESSORIES: Large (5"x12") Dual-Coil for all purpose hunting; 2-inch Probe and 3½-inch Coil for prospecting and nuggetshooting; 13x24-inch Coil for fast, deep ground coverage; Magnified 24-inch Coil for extremely deep hunting; 5-inch and 12-inch underwater Coils for aquatic use.

ZERO-DRIFT: The Coin Hunter BFO comes with the famous original Garrett Hunter Zero-Drift circuit which assures you of unequalled stable detector operation.

SPEAKER: The Coin Hunter BFO comes complete with the new Triple-Output Speaker system for greater detection sensitivity and audio response.

POWER PLANT: Three Eveready No. 216 9-volt Transistor Batteries.

COST OF OPERATION: Less than 5¢ per hour.

OPERATING WEIGHT: 3¾ pounds.

BEST BFO FOR COINS AND RELICS

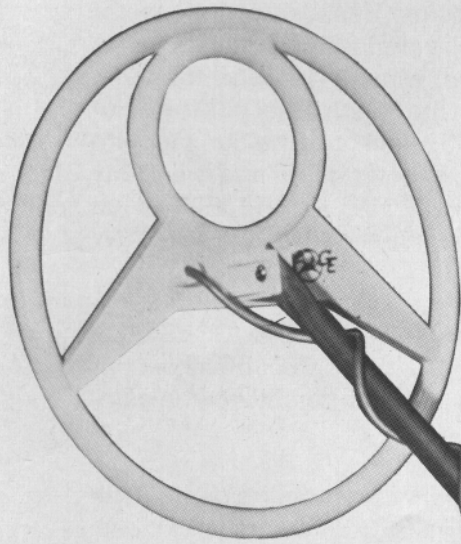


Charles Garrett using the COIN HUNTER to search some unknown location quickly. The small dual-coil is designed especially for deep coins and shallow relics. Fast ground coverage and the availability of both large and small search coils make this model a favorite among the professionals.

CACHE HUNTERS

BFO

All Purpose detector



- All-Purpose (Constant-Audio Response)
- Waterproof Dual-Coil Search Head (5"x12")
- Grass-Proof; 100% Faraday-Shielded Search Coil
- Independently Operated (Patented) Coil System
- Infinitely Adjustable Meter Control
- Single Control Metal/Mineral Tuner
- Super-Sensitive Easi-View Meter
- Crystal Controlled Oscillator
- Patented Zero-Drift Stability
- Adjustable-Angle Search Coil
- Military Standard Connectors
- Triple-Output Speaker System
- Protected Control Panel
- Complete Instructions
- Battery Test Meter
- Dual-Scoping Stem

**For
those
Deeper
Relics
and
Caches**



OPTIONAL
\$12.50



\$199⁹⁵

BEAT FREQUENCY (BFO) METAL MINERAL DETECTOR

The Garrett CACHE HUNTER BFO has been designed and built for the professional treasure hunter who requires a detector that can do ALL the various jobs of cache hunting. The CACHE HUNTER BFO is equipped with the famous Garrett Independently-Operated Large (5x12-inch) Dual-Coil. With the outer 12-inch coil you can successfully cache hunt and, with the flip of a switch to the inner 5-inch coil, easily locate coins and smaller objects.

Professionals choose this instrument for several reasons. One, of course, is the large Dual-Coil, but the instrument is rugged and compact enough to be back-packed into dense countryside and carried as a complete treasure hunting detector without the added weight or bother of packing extra coils. As with all Garrett Dual-Coil detectors, the CACHE HUNTER BFO allows you to "check out" the detected object and determine from its size and depth if it is what you want to dig up. With the added purchase of the small 3½x8-inch Dual-Coil, the CACHE HUNTER BFO becomes the professional MASTER HUNTER BFO. You can purchase the 2-inch and 3½-inch nugget probe and have the famous NUGGET HUNTER BFO combination. You may add the 13x24-inch Coil or the Magnified 24-inch Coil to your CACHE HUNTER BFO and have a superb rapid-scanning and/or deep-seeking instrument. Because of its compactness and all-purpose capabilities, we highly recommend this detector to the most demanding cache hunter.

Do you need a sturdy, sensitive, compact detector to find those caches and relics? The Garrett CACHE HUNTER BFO is the number one choice of professional BFO operators.

OPERATION: The Cache Hunter All Purpose BFO metal/mineral detector operates on the constant audio, Beat Frequency (BFO) system, known for its superior stability and versatility.

RECOMMENDED ACCESSORIES: Small (3½"-8") Dual-Coil for coinshooting; 2-inch and 3½-inch Probes for nuggetshooting and prospecting; 13x24-inch Coil for fast, deep ground coverage; Magnified 24-inch Coil for extremely deep hunting; 5-inch and 12-inch underwater Coils for aquatic use.

ZERO-DRIFT: The Cache Hunter BFO comes with the famous original Garrett Hunter Zero-Drift circuit which assures you of unequaled stable detector operation.

SPEAKER: The Cache Hunter comes complete with the new Triple-Output Speaker system for greater detection sensitivity and audio response.

POWER PLANT: Three Eveready No. 216 9-volt Transistor Batteries.

COST OF OPERATION: Less than 5¢ per hour.

OPERATING WEIGHT: 4 pounds

CASH IN ON QUALITY



Charles Garrett using the Cache Hunter to check thoroughly for a large gold hoard which was thought to be buried near this site. Charles was able to determine that the metallic indications he received were NOT the large cache simply by "flipping" the coil selector switch to the small 5-inch coil. Much time and wasted effort can be saved when cache hunting by using a detector built for the job.

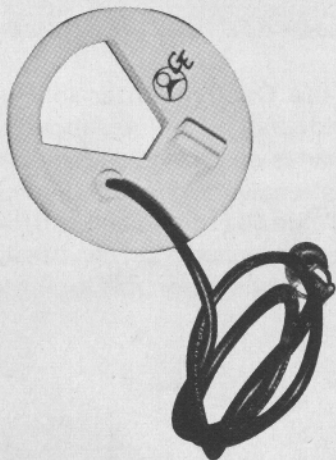
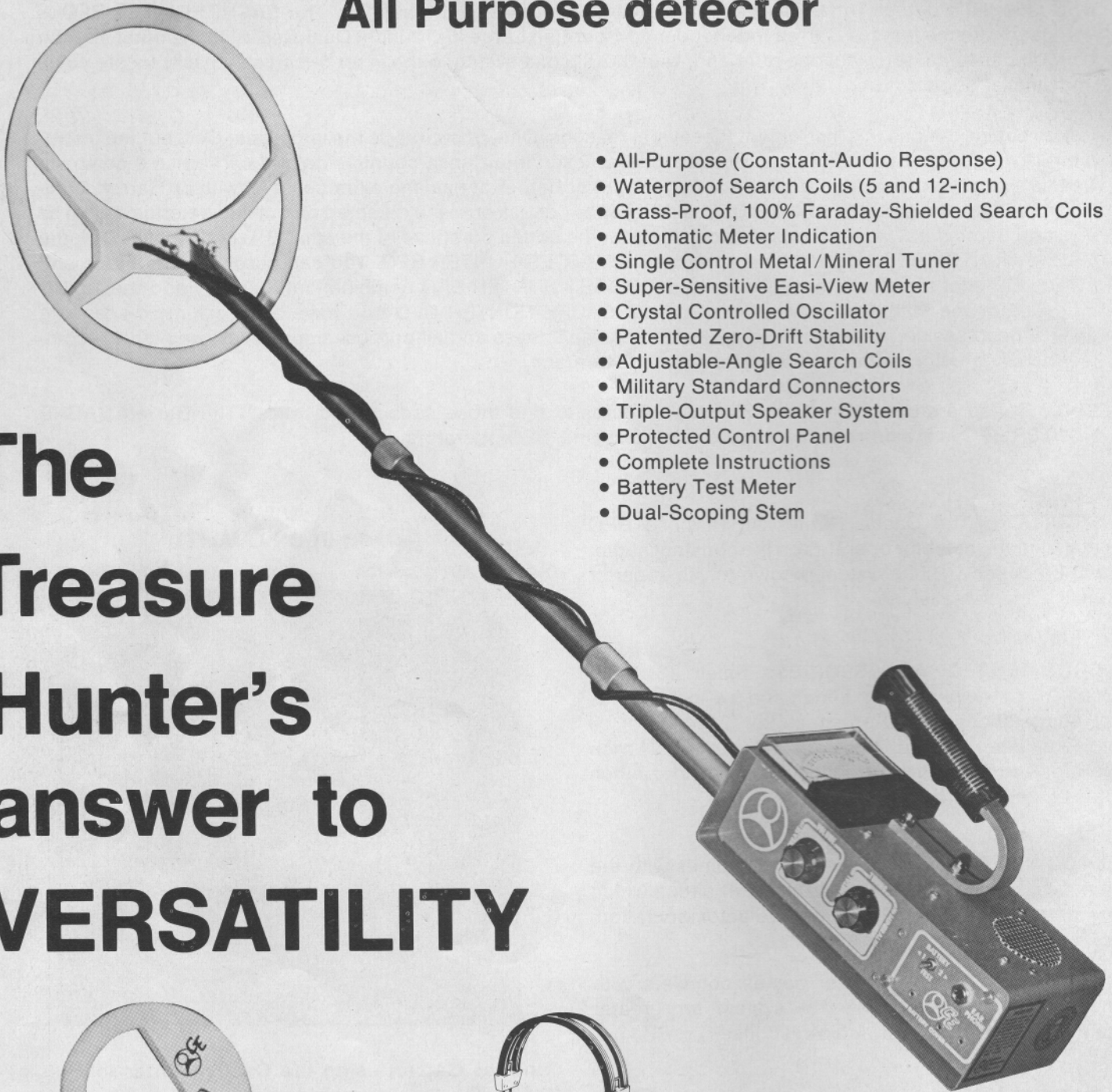
TREASURE HUNTER

BFO

All Purpose detector

- All-Purpose (Constant-Audio Response)
- Waterproof Search Coils (5 and 12-inch)
- Grass-Proof, 100% Faraday-Shielded Search Coils
- Automatic Meter Indication
- Single Control Metal/Mineral Tuner
- Super-Sensitive Easi-View Meter
- Crystal Controlled Oscillator
- Patented Zero-Drift Stability
- Adjustable-Angle Search Coils
- Military Standard Connectors
- Triple-Output Speaker System
- Protected Control Panel
- Complete Instructions
- Battery Test Meter
- Dual-Scoping Stem

The
Treasure
Hunter's
answer to
VERSATILITY



OPTIONAL
\$12.50

\$159⁹⁵

BEAT FREQUENCY (BFO) METAL MINERAL DETECTOR

The Garrett TREASURE HUNTER BFO has been designed and equipped with correctly-sized coils for the all-around professional Treasure Hunter who does not wish to utilize Garrett's popular Independently Operated Dual-Coil system. This professional model comes with the standard HOT 5-inch and 12-inch single coils, making the TREASURE HUNTER the most popular single-coil BFO detector in Treasure Hunting history. You may purchase the 13x24-inch search coil and increase your ground coverage speed or the Magnified 24-inch coil and search for the deeply-hidden bottle dumps and veins of precious metals. With the purchase of the 2-inch and 3½-inch nugget probes, you have the professional NUGGET HUNTER at your command. The TREASURE HUNTER'S 5-inch single coil makes the detector one of the best BFO coin-finding detectors ever manufactured. The large, ground-covering 12-inch single coil can be used for practically any treasure hunting job, whether commercial or hobby. For PROVED performance in SINGLE COIL BFO detectors, there is NO detector that can match the *versatility* of the Garrett TREASURE HUNTER BFO, regardless of price and competitive advertising claims.

OPERATION: The Treasure Hunter All Purpose BFO metal/mineral detector operates on the constant audio, Beat Frequency (BFO) system, known for its superior stability and versatility.

RECOMMENDED ACCESSORIES: 2-inch and 3½-inch Probes for nuggetshooting and prospecting; 8-inch Coil for ghostowning and relic hunting; 13x24-inch Coil for fast, deep ground coverage; Magnified 24-inch Coil for extremely deep hunting; 5-inch and 12-inch under-water Coils for aquatic use.

ZERO-DRIFT: The Treasure Hunter BFO comes with the famous original Garrett Hunter Zero-Drift circuit which assures you of unequalled stable detector operation.

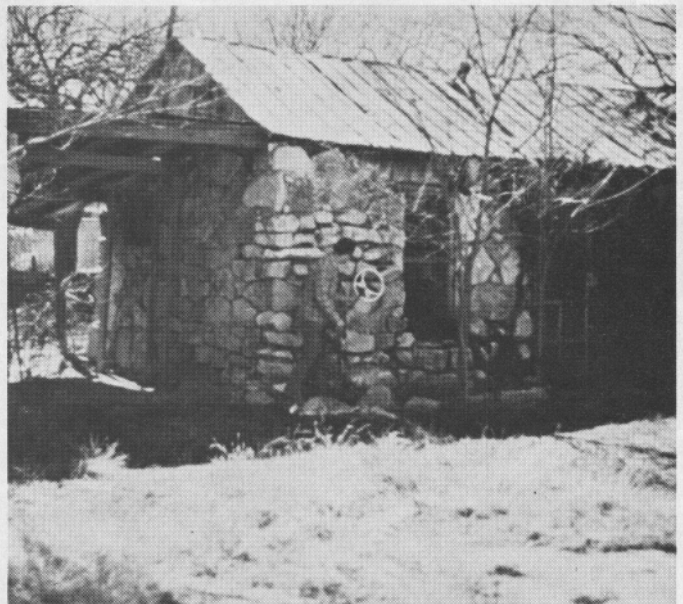
SPEAKER: The Treasure Hunter BFO comes with the new Triple-Output Speaker system for greater detection sensitivity and audio response.

POWER PLANT: Two Eveready No. 216 9-volt Transistor Batteries.

COST OF OPERATION: Less than 5¢ per hour.

OPERATING WEIGHT: 4 pounds.

FINEST SINGLE COIL BFO ANYWHERE

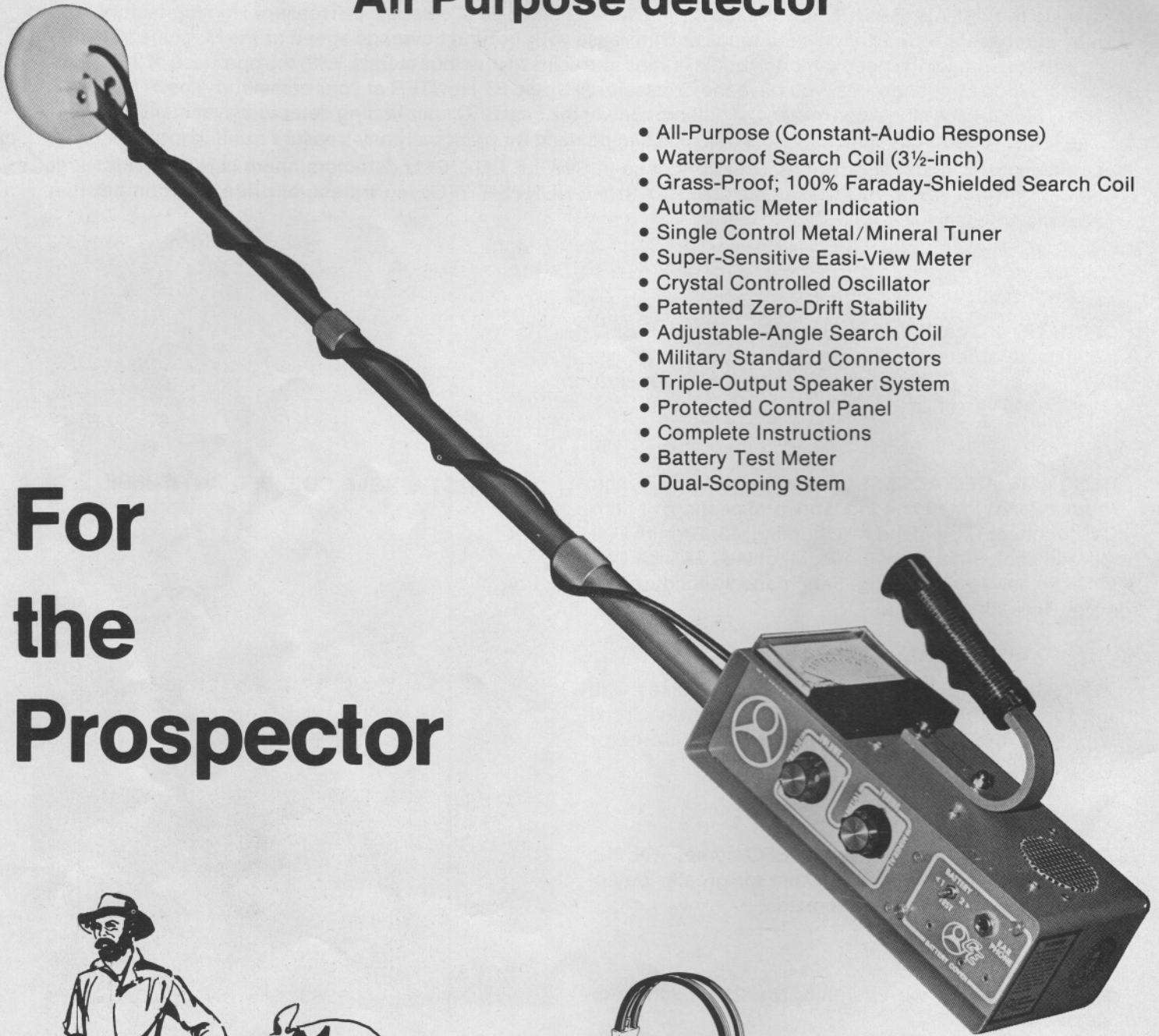


Charles Garrett using the new improved Treasure Hunter on one of his frequent treasure expeditions. Charles has every reason to be proud of the versatile Treasure Hunter model. It was built originally in the "curved" stem configuration and marketed under the trade name Garrett "Sidewinder". Probably it is the most widely-used and most popular single coil BFO detector ever manufactured.

3 NUGGET HUNTERS

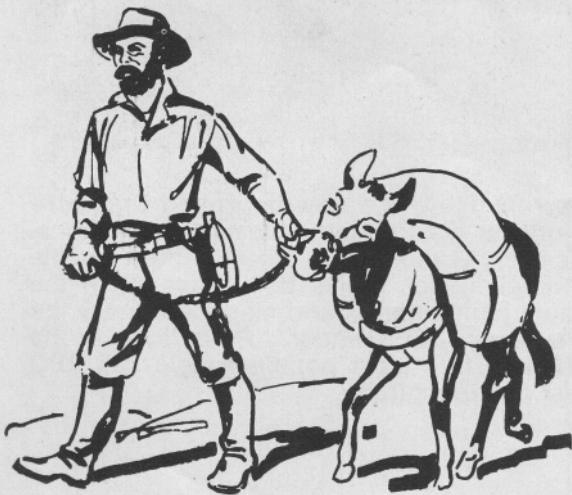
BFO

All Purpose detector



- All-Purpose (Constant-Audio Response)
- Waterproof Search Coil (3½-inch)
- Grass-Proof; 100% Faraday-Shielded Search Coil
- Automatic Meter Indication
- Single Control Metal/Mineral Tuner
- Super-Sensitive Easi-View Meter
- Crystal Controlled Oscillator
- Patented Zero-Drift Stability
- Adjustable-Angle Search Coil
- Military Standard Connectors
- Triple-Output Speaker System
- Protected Control Panel
- Complete Instructions
- Battery Test Meter
- Dual-Scoping Stem

For the Prospector



OPTIONAL
\$12.50

\$139⁹⁵

BEAT FREQUENCY (BFO) METAL MINERAL DETECTOR

The NUGGET HUNTER BFO has been designed and built for the professional prospector and mining engineer. It utilizes *highly developed circuitry which provides the RED HOT sensitivity* necessary for the detection of EXTREMELY small GOLD nuggets. This detector may, however, be used for all the various forms of Treasure Hunting and with the addition of several Garrett single coils, do the work expected of any professional instrument.

We have designed and built the NUGGET HUNTER from the suggestions and recommendations of professional prospectors and mining experts. The Garrett 3½-inch single coil is the most practical BFO coil for all-around nuggetshooting because it has sensitivity HIGH enough to detect small nuggets, but is still large enough to give you good ground coverage. With the added purchase of the 2-inch nugget probe and the 5-inch search coil, you can profitably search the earth's small cracks and crevices for gold and silver deposits. By purchasing the 13x24-inch coil or the Magnified 24-inch coil, you can successfully locate old bottle dumps and deep veins of precious metals. These are the recommended coils and probes for the treasure hunter who is mainly interested in prospecting and nuggetshooting. You may, however, let the NUGGET HUNTER BFO double for all-purpose use with the purchase of any Garrett single coil.

Many treasure hunters also use their NUGGET HUNTER for coinshooting since the HOT 3½-inch coil is one of the best BFO coin-finding coils on the market. Many other applications are possible with this instrument, but the capabilities described above are the main reasons why the NUGGET HUNTER BFO is used by more professional prospectors than any other make or model.

OPERATION: The Nugget Hunter All Purpose BFO metal/mineral detector operates on the constant audio, Beat Frequency (BFO) system, known for its superior stability and versatility.

RECOMMENDED ACCESSORIES: 12-inch Coil for deeper searching and good ground coverage; 8-inch Coil for ghostowning and relic hunting; 2-inch Probe and the 5-inch Coil for nuggetshooting and prospecting; 13x24-inch Coil for fast, deep ground coverage; Magnified 24-inch Coil for extremely deep hunting; 5-inch and 12-inch underwater Coils for aquatic use.

ZERO-DRIFT: The Nugget Hunter BFO comes complete with the famous original Garrett Hunter Zero-Drift circuit, assuring you of unequalled stable detector operation.

SPEAKER: The Nugget Hunter BFO comes with the new Triple-Output Speaker system for greater detection sensitivity.

POWER PLANT: Two Eveready No. 216 9-volt Transistor Batteries.

COST OF OPERATION: Less than 5¢ per hour.

OPERATING WEIGHT: 3¾ pounds.

**FAST GROUND COVERAGE,
PLUS "HOT" SENSITIVITY**

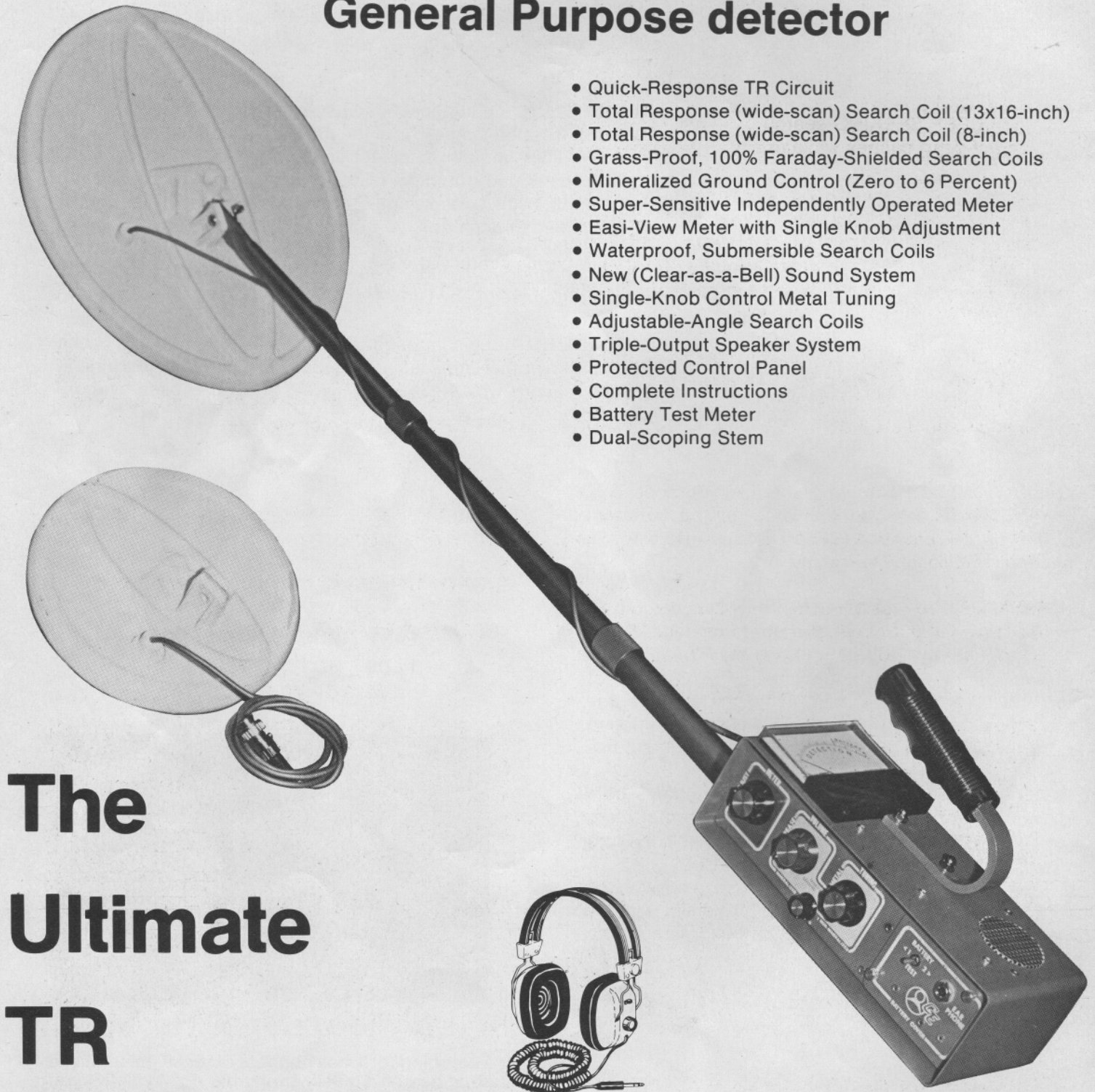


Searching for small nuggets in rocky, mineralized streams can be very profitable, PROVIDING you use a fully-shielded coil that is designed specifically for nuggetshooting.

MASTER HUNTER TR

General Purpose detector

- Quick-Response TR Circuit
- Total Response (wide-scan) Search Coil (13x16-inch)
- Total Response (wide-scan) Search Coil (8-inch)
- Grass-Proof, 100% Faraday-Shielded Search Coils
- Mineralized Ground Control (Zero to 6 Percent)
- Super-Sensitive Independently Operated Meter
- Easi-View Meter with Single Knob Adjustment
- Waterproof, Submersible Search Coils
- New (Clear-as-a-Bell) Sound System
- Single-Knob Control Metal Tuning
- Adjustable-Angle Search Coils
- Triple-Output Speaker System
- Protected Control Panel
- Complete Instructions
- Battery Test Meter
- Dual-Scoping Stem



**The
Ultimate
TR
Instrument**



**OPTIONAL
\$12.50**

\$249⁹⁵

TRANSMITTER RECEIVER (TR) METAL DETECTOR

The Garrett MASTER HUNTER TR is exactly what the name implies . . . the MASTER of all Transmitter-Receiver detectors. The MASTER HUNTER has all the advantages of every Garrett TR model, including the correct coils needed to do every general-purpose treasure hunting job. The MASTER HUNTER is actually five detectors in one. It utilizes the 8-inch coil of the Super MINI-HUNTER TR, the GHOSTOWNER, the MONEY HUNTER and the COMPETITION MASTER. The MASTER HUNTER features Garrett's newly-developed MINERALIZED GROUND CONTROL, adjustable zero to six percent, plus the ruggedly built 13x16-inch DEEP SEEKING search coil. This coil, the LARGEST ELONGATED TR coil ever built, was designed to detect deep caches while retaining the ability to detect large single coins.

In other words, you can do ANY *Metallic* Treasure Hunting job with the MASTER HUNTER TR, and do it better than you can with any other TR detector. You can enter the exciting fields of Ghostowning, General Treasure Hunting, Cache Searching, and Successful Coin Hunting. It's that versatile . . . that good. The MASTER HUNTER TR search coils are Faraday-Shielded to permit searching in wet grass and weeds. This completely eliminates outside interference from green vegetation—no more placing plastic bags or "skid plates" over TR search coils.

The ULTIMATE TR detector that combines RED HOT sensitivity, SUPER SENSITIVITY meter indications, Garrett's newly-developed MINERALIZED GROUND CONTROL, "Clear-as-a-bell" continuous sound wave system, and our TOTAL RESPONSE (wide-scan) 100% FARADAY-SHIELDED 8-inch and 13x16-inch search coils. If you want to start at the TOP, The Garrett MASTER HUNTER TR is the detector for you!

OPERATION: The Master Hunter TR is an Audio Amplitude, Quick-Response TR System, utilizing the Semi-Silent TR (IB) sound level.

SPEAKER: The Master Hunter TR comes complete with the Triple-Output Speaker system with Garrett's NEW "Clear-as-a-bell" Continuous Sound-Wave Response.

GENERAL PURPOSE DEEPSEEKER



Charles Garrett and the Master Hunter with 13x16-inch deepseeking coil attempting to locate that "post hole" bank. I know a spot just like that . . . I wonder . . . ?

POWER PLANT: Three Eveready No. 216 9-volt Transistor Batteries.

COST OF OPERATION: Less than 5¢ per hour.

OPERATING WEIGHT: 4 pounds.

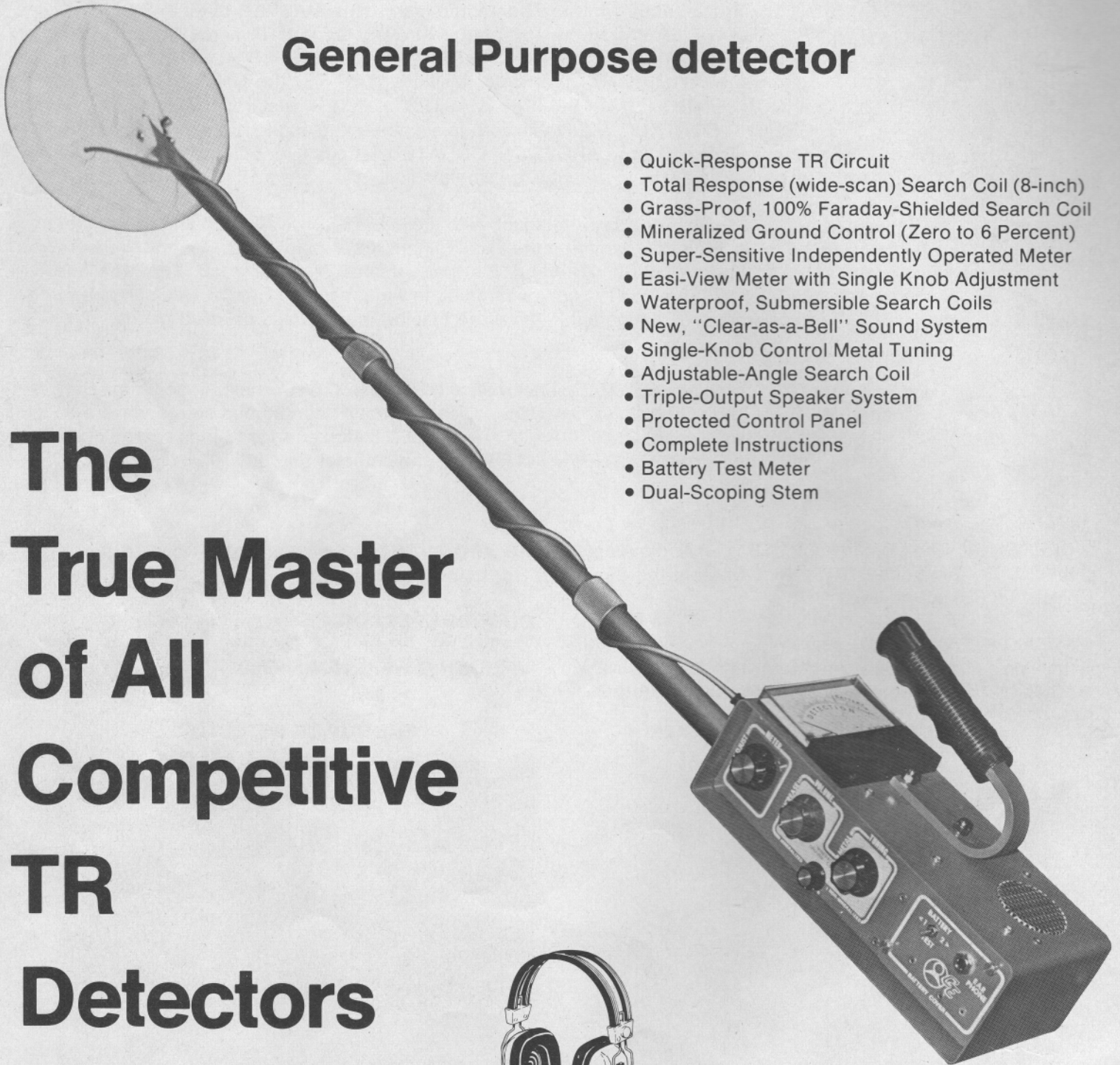
THE TOP TR DETECTOR



Charles Garrett using the "hot" 8-inch coil on the Master Hunter. Charles did quite well on this deserted farm yard. Coins were extra deep but plentiful.

COMPETITION MASTER TR

General Purpose detector



- Quick-Response TR Circuit
- Total Response (wide-scan) Search Coil (8-inch)
- Grass-Proof, 100% Faraday-Shielded Search Coil
- Mineralized Ground Control (Zero to 6 Percent)
- Super-Sensitive Independently Operated Meter
- Easi-View Meter with Single Knob Adjustment
- Waterproof, Submersible Search Coils
- New, "Clear-as-a-Bell" Sound System
- Single-Knob Control Metal Tuning
- Adjustable-Angle Search Coil
- Triple-Output Speaker System
- Protected Control Panel
- Complete Instructions
- Battery Test Meter
- Dual-Scoping Stem

The
True Master
of All
Competitive
TR
Detectors



OPTIONAL
\$12.50

\$199⁹⁵

TRANSMITTER RECEIVER (TR) METAL DETECTOR

We are extremely proud of the COMPETITION MASTER TR. Much concentrated engineering and design effort has gone into this competitive detector. We do not give the name "MASTER" lightly to any of our detector models. When we chose the name "COMPETITION MASTER" for this particular Garrett model, it was after much thought and consideration. Compare the COMPETITION MASTER's fast response and "Clear-as-a-bell" signal. Bury a penny at three to five inches deep and compare the audio indication. Try the BALANCE OF THE COMPETITION MASTER alongside other competitive TR detectors. Notice that the COMPETITION MASTER TR has retained the GOOD LOOKS and QUALITY appearance for which the GARRETT name is noted the world over.

If you would like to have better than an even break in the field trials and Treasure Hunting meets; if you would like to follow behind your friends and find some of the deep coins that they miss; if you would like to have good looks and quality; along with the most fantastic speed and quickest response that the coin hunter has ever known—then the COMPETITION MASTER TR has to be your choice . . . the detector that was built and designed to outperform all the COMPETITION completely.

OPERATION: The Competition Master TR, is an Audio Amplitude, Quick-Response TR System, utilizing the Semi-Silent TR (IB) sound level.

SPEAKER: The Competition Master TR comes complete with Garrett's NEW "Clear-as-a-bell" Continuous Sound-Wave Response.

RECOMMENDED ACCESSORIES: Garrett's ruggedly-built 13x16-inch deep-seeking Coil with the "low-profile" design.

POWER PLANT: Three Eveready No. 216 9-volt Transistor Batteries.

COST OF OPERATION: Less than 5¢ per hour.

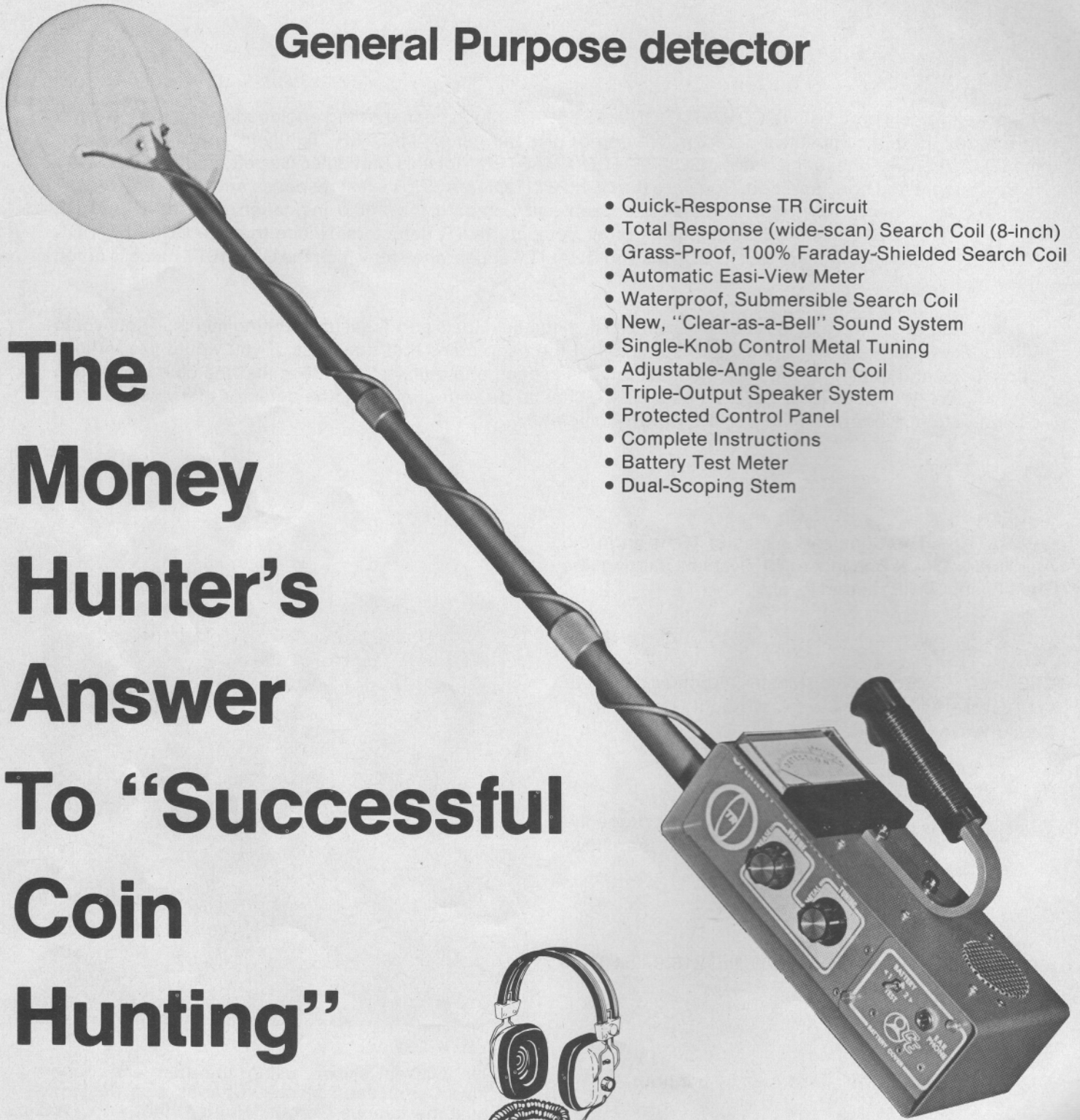
OPERATING WEIGHT: 4 pounds.



Charles Garrett shown using the fast and super-sensitive Competition Master. Charles also designed and built the famous Garrett "Hunter" that won TWO world championships, plus many more "firsts". He has designed and built the Competition Master on recommendations from the fastest Pro's in the business.

MONEY HUNTER TR

General Purpose detector



**The
Money
Hunter's
Answer
To "Successful
Coin
Hunting"**

- Quick-Response TR Circuit
- Total Response (wide-scan) Search Coil (8-inch)
- Grass-Proof, 100% Faraday-Shielded Search Coil
- Automatic Easi-View Meter
- Waterproof, Submersible Search Coil
- New, "Clear-as-a-Bell" Sound System
- Single-Knob Control Metal Tuning
- Adjustable-Angle Search Coil
- Triple-Output Speaker System
- Protected Control Panel
- Complete Instructions
- Battery Test Meter
- Dual-Scoping Stem



OPTIONAL
\$12.50

\$159⁹⁵

TRANSMITTER RECEIVER (TR) METAL DETECTOR

The Garrett MONEY HUNTER TR was designed especially for the SERIOUS Coin Hunter and the dedicated PROFESSIONAL who wants Speed, Depth, Balance AND QUALITY. No other Detector in the history of Coin Hunting has been so aptly named. When you say "MONEY HUNTER"—you have said it all. Listen to the extremely fast response . . . "Clear-as-a-bell". The MONEY HUNTER goes deep for those OLDER coins . . . compare with competitive TR detectors costing \$169.00 to \$269.00-plus. Bury a penny and notice the MONEY HUNTER's quick response.

Compare the perfect balance of the MONEY HUNTER TR against any competitive TR; notice the MONEY HUNTER looks and feels like QUALITY. The Garrett MONEY HUNTER TR has not sacrificed good looks, nor quality, to get faster performance.

When you go after those DEEP COINS that everyone else has missed, get a detector that was made for the job and carries the name that is known the world over for the highest quality. Test a MONEY HUNTER TR by going behind any competitive detector—see how many MORE coins the MONEY HUNTER finds. If you go after Money, then use a detector built for the job . . . the Garrett MONEY HUNTER TR, with built-in QUALITY AND PERFORMANCE.

OPERATION: The Money Hunter TR is an Audio Amplitude, Quick-Response TR System, utilizing the Semi-Silent TR (IB) sound level.

SPEAKER: The Money Hunter TR comes complete with the Triple-Output Speaker system with Garrett's NEW "Clear-as-a-Bell" Continuous Sound-Wave Response.

RECOMMENDED ACCESSORIES: Garrett's ruggedly-built 13x16-inch deep-seeking Coil with the "low profile" design.

POWER PLANT: Three Eveready No. 216 9-volt Transistor Batteries.

COST OF OPERATION: Less than 5¢ per hour.

OPERATING WEIGHT: 4 pounds.

SUCCESSFUL MONEY HUNTING

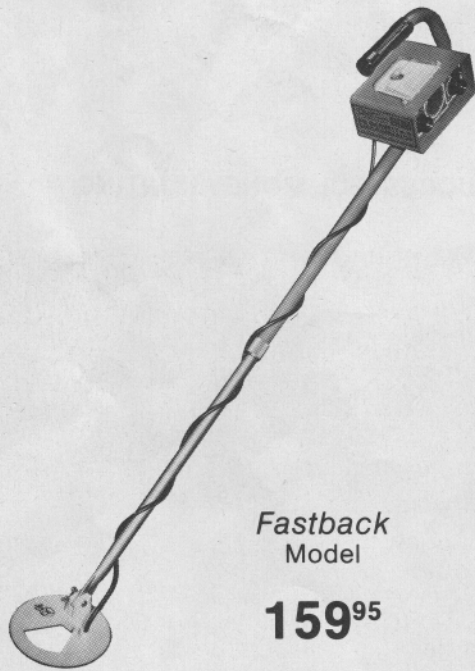


Charles Garrett giving the Money Hunter a good workout on this "loaded" farm yard. Needless to say, the Money Hunter certainly lived up to its name. This particular farm yard produced over 300 coins (and a few other items).

THE ALL NEW GARRETT ★ DISCRIMINATOR ★

- Single Control—Metal/Mineral Tuner
- Audio "Metal vs. Mineral" Identification
- Separate, Adjustable Discriminating Meter
- Waterproof, 100% Faraday-Shielded Search Coil (5-inch)
- Patented Zero-Drift Stability
- Protected Control Panel
- Triple-Output Speaker System
- Crystal Controlled Oscillator
- Battery Test Meter
- Adjustable-Length Stem
- Complete Instructions

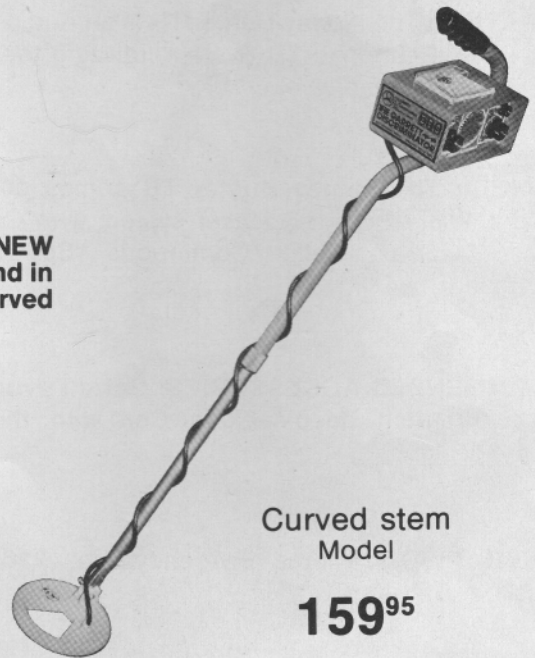
DISCRIMINATOR CIRCUITRY
PATENT PENDING



Fastback
Model

159⁹⁵

Available in Garrett's NEW
"Fastback" design and in
Garrett's original "curved
stem" design.



Curved stem
Model

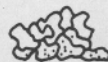
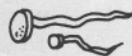
159⁹⁵

REJECTS

Nails—Bottlecaps—Tinfoil, etc.

DETECTS

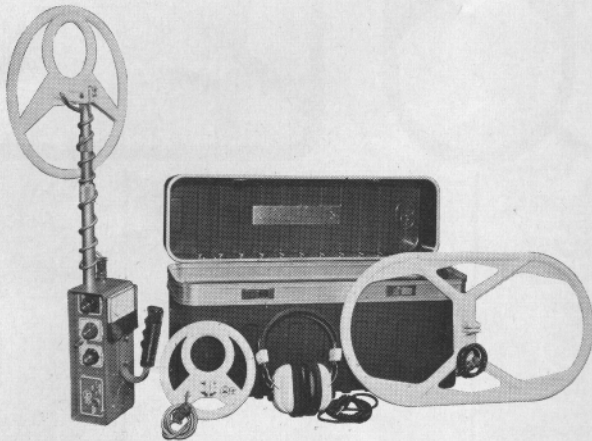
Coins
Gold—silver—jewelry, etc.



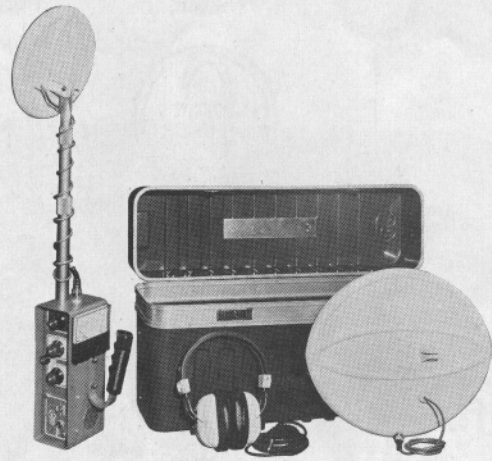
FOR THE DISCRIMINATING HOBBYIST OR PROFESSIONAL WHO DESIRES THE BEST
IN "STABLE" DISCRIMINATORS.

SPECIAL PACKAGES

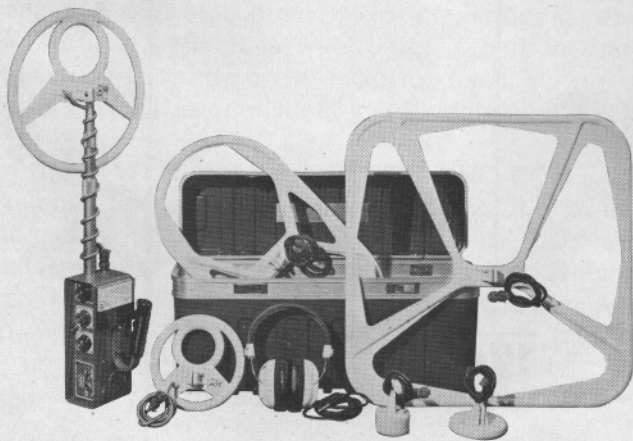
The Garrett line of detectors has been designed to meet any and all treasure hunting requirements. The special coils and attachments which are available will provide you with complete prospecting deep-seeking and other full-scope treasure hunting capabilities. Listed below are 3 complete Master Hunter packages which we offer to you at special prices.



MASTER HUNTER BFO complete with 13x24-inch coil, stereo earphones, and suitcase carrying case \$325.00



MASTER HUNTER TR complete with stereo earphones, and suitcase carrying case \$287.50



SUPER PACKAGE: Master Hunter BFO complete with 2-inch probe, 3½-inch coil, 13x24-inch coil, 24x24-inch coil, stereo earphones, and suitcase carrying case..... \$420.00

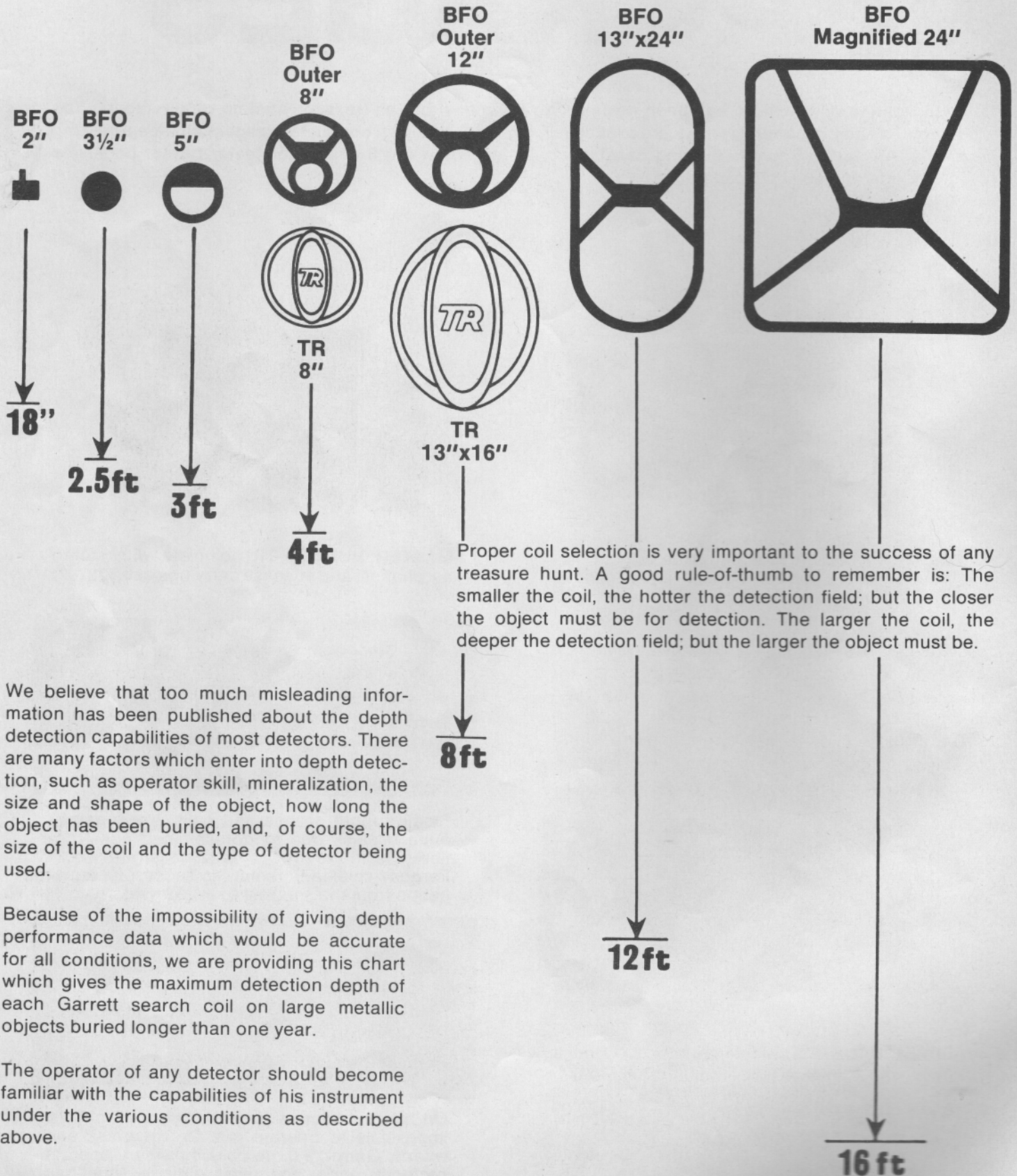


Small nugget probes and coils are generally quite useless due to non-shielded construction. Garrett's probes and coils are 100% Faraday-shielded, permitting successful application from the smallest to the largest.



On many detectors large coils are practically impossible to operate due to wet grass and weeds. Garrett's large coils, however, operate perfectly under the most difficult situations and conditions.

Approximate Coil Depths on Large Metal Objects



We believe that too much misleading information has been published about the depth detection capabilities of most detectors. There are many factors which enter into depth detection, such as operator skill, mineralization, the size and shape of the object, how long the object has been buried, and, of course, the size of the coil and the type of detector being used.

Because of the impossibility of giving depth performance data which would be accurate for all conditions, we are providing this chart which gives the maximum detection depth of each Garrett search coil on large metallic objects buried longer than one year.

The operator of any detector should become familiar with the capabilities of his instrument under the various conditions as described above.

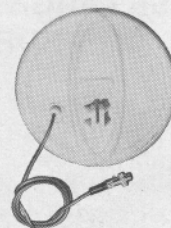
TR DETECTOR ACCESSORIES



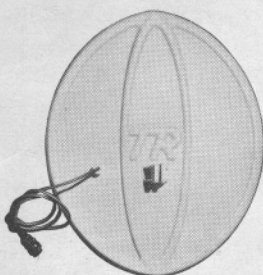
CARRYING BAG



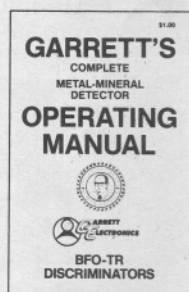
EARPHONES



8" COIL



13x16 COIL



SUITCASE

THE NAUGAHYDE CARRYING BAG will provide perfect protection for your instrument. It is constructed of leather-like Naugahyde plastic with a zippered opening. A pocket is provided for maps, books, earphones, finds, etc. It is waterproof, dustproof, and comes with a handy cross-strap for backpacking or hand carrying. Designed for all instruments \$7.95

The new **13x16-inch DEEP SEEKING COIL** was developed for general purpose searching. It is waterproof; has 100% Faraday-shielding; and our new Total Response (wide-scan) search pattern. Standard on the Master Hunter TR and available for the Competition Master TR and the Money Hunter TR. Cannot be used with the other TR detectors. Largest elongated TR search coil ever built \$67.50

The beautifully-moulded, Hi-Impact **ABS SUITCASE CARRYING CASE** will last a lifetime under the roughest use. This case has been designed for the Master, Competition and Money Hunter TR's only. Extra storage room for an Army-type folding shovel, maps, and other items. Equipped with two key-locking latches and a handle \$39.95

Our new Total Response (wide-scan), **8-INCH TR SEARCH COIL** is waterproof, 100% Faraday-shielded, and covers 300% more scan area than conventional TR coils. Can be purchased as a "spare" for the Master, Competition, and Money Hunter TR's \$65.00

The 8-ohm **STEREO/MONAUAL HEADSET** features cushioned earpieces, individual earpiece volume adjustment, a pre-coiled expandable cord, and a switch which allows the headset to be operated monaurally when used with the detector or in stereo when used with a stereo high-fidelity sound system. Can be used with all Garrett detectors \$12.50

METAL/MINERAL DETECTOR OPERATING MANUAL. The most *complete instructive* operator's manual ever printed. Covers TR's (IB), BFO's, Discriminators, correct operational procedures, type of ground encountered and professional operating tips on all phases of Treasure Hunting. Fifty pages crammed full of facts, figures, etc. \$1.00. FREE with purchase of any Garrett detector.

BFO DETECTOR ACCESSORIES

THESE LARGE AND SMALL COILS ARE AN ABSOLUTE NECESSITY FOR THE PROFESSIONAL TREASURE HUNTER AND PROSPECTOR



BFO DETECTOR ACCESSORIES

DESCRIPTION-APPLICATION-PRICING

All Garrett search coils are waterproof and completely submersible.

- 1 **2-INCH PROBE** - Designed for fine gold searching in cracks and fissures of wet or dry stream beds. Use to locate black magnetic sand deposits where gold is naturally found. . . \$25.95
- 2 **3½-INCH SEARCH COIL** - HOT response to buried coins, nuggets and small ore stringers. Perfect for metal/mineral ore sample identification. Good for building searching, etc. \$25.95
- 3 **5-INCH SEARCH COIL** - Excellent response, even when detecting the smallest coins. Use successfully for detecting larger nuggets or for metal/mineral ore sample identification (highgrading). Good for shallow vein locating and tracing, building searching and relic hunting. \$26.95
- 4 **8-INCH SEARCH COIL** - An excellent general purpose coil. Small enough for good response on buried coins and large enough for relic and cache hunting \$28.50
- 5 **12-INCH SEARCH COIL** - For cache hunting, including relics (guns, cannon balls, etc.), post hole banks, and pots buried to about four feet. \$30.00
- 6 **DEEP-SEEKING SINGLE 13x24-INCH SEARCH COIL** - This improved deep-seeking coil detects relics, post hole banks, pots, and ore veins deeper than the twelve-inch coil. Elongated, low-profile design doubles the scanning speed of the 12-inch coil. Don't overlook the possibilities of this deep-seeker. \$39.95
- 7 **SINGLE MAGNIFIED 24x24-INCH SUPER SEARCH COIL** - For maximum depth penetration on larger-than-baseball-sized objects. Search for pots, chest-sized objects, and subsurface ore veins with the MAGNIFIED 24. When you need all the depth you can get, the MAGNIFIED 24 is it! \$49.95
- 8 **8-OHM STEREO/MONAUROAL HEADSET** - Cushioned earpieces, individual earpiece volume adjustment, pre-coiled expandable cord. Operates monaurally with the detector or in stereo with a stereo high-fidelity sound system. Use with all Garrett detectors. \$12.50
- 9 **METAL/MINERAL DETECTOR OPERATING MANUAL**. The most *complete instructive*, operators' manual ever printed. Covers TR's (IB), BFO's, Discriminators, correct operational procedures, type of ground encountered and professional operating tips on all phases of Treasure Hunting. Fifty pages crammed full of facts, figures, etc. \$1.00. FREE with purchase of any Garrett detector.
- 10 **3½x8-INCH INDEPENDENTLY OPERATED DUAL COIL** - Standard on Master and Coin Hunter BFO detectors. May be purchased for use with the Cache Hunter. The most versatile coin hunting configuration, it offers all the advantages of the 3½ and 8-inch single coils, plus "instant change" and the ability to determine size and depth. \$65.00
- 11 **5x12-INCH INDEPENDENTLY OPERATED DUAL COIL** - Standard on Master and Cache Hunter BFO detectors. May be purchased for the Coin Hunter BFO. This dual coil offers the flexibility of coin and cache hunting with one search head. "Instant change" permits thorough searching of one location without the inconvenience of carrying additional coils. It has been accepted that an INDEPENDENTLY OPERATED DUAL COIL is more sensitive than separate single coils or multiple coils of the same size. \$67.50
- 12 **5-INCH UNDERWATER COIL** - Can be lowered fifty feet to detect sunken boats, motors, fishing tackle, etc. Can be lowered into cisterns and wells to locate discarded treasure. \$44.95
- 13 **12-INCH UNDERWATER COIL** - Can be used exactly as the 5-inch coil described above. Its extra weight makes it easier to maneuver in swiftly running water. \$49.95
- 14 **SUITCASE CARRYING CASE** - Will last a lifetime under the roughest use. This beautifully moulded green case has been designed for the Master, Cache, Coin, Treasure and Nugget Hunter BFO detectors. Extra room for the 13x24-inch coil, an underwater coil, several small coils, and an Army-type shovel, maps and other items. Equipped with two key-locking latches and handle. \$39.95
- 15 **NAUGAHYDE CARRYING BAG** - Provides perfect protection for your instrument. Constructed of leather-like Naugahyde plastic with zippered opening. A pocket is provided for maps, books, earphones, finds, etc. It is waterproof and dustproof with a handy cross-strap for backpacking or hand carrying. Designed for all instruments. \$7.95

ONLY GARRETT HAS EVERY SEARCH COIL YOU NEED FOR MEETING EVERY TREASURE HUNTING CHALLENGE

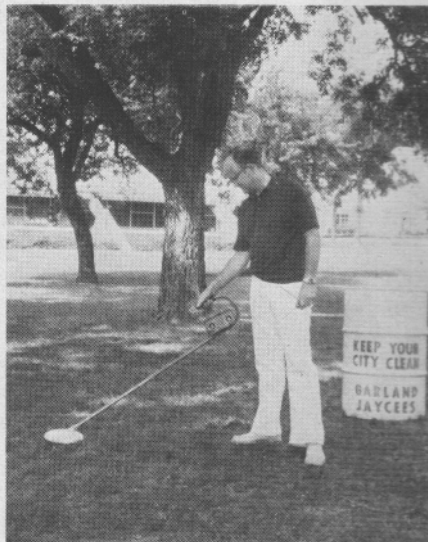
THE NEW GARRETT *FASTBACK* Mini-HUNTER LINE

HIGH QUALITY DETECTORS FOR THE SERIOUS BEGINNER

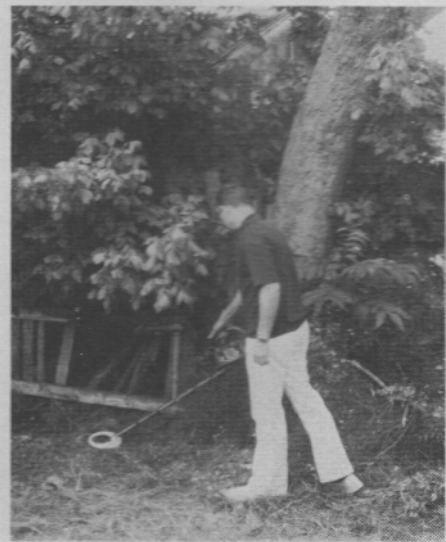
The MINI-HUNTER line of detectors has long been recognized by professionals as being **QUALITY** instruments which will outperform competitive detectors costing up to \$200.00 or more.



Charles Garrett using the Ghostowner TR to check an old House. Enjoy your Ghostowning trip, but do not destroy property.



Here Charles is using the Super Mini-Hunter TR in a city park. Notice the ice pick and screw-driver combination. A careful coin hunter is always welcome.



Charles is using the Super Mini-Hunter BFO here to recover a few relics. Always ask permission and fill all holes you dig.

Garrett is your best buy

mini-HUNTER
GHOSTOWNER

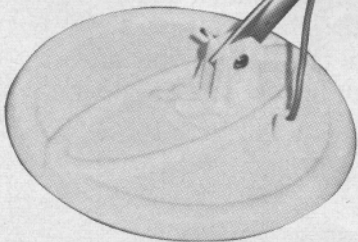


Transmitter
Receiver

General Purpose detector

- Quick-Response TR Circuit
- Total Response (wide-scan) Search Coil (8-inch)
- Grass-Proof, 100% Faraday-Shielded Search Coil
- Automatic Indicating Easi-View Meter
- Waterproof, Submersible Search Coil
- New, "Clear-as-a-Bell" Sound System
- Single-Knob Control Metal Tuning
- Adjustable-Angle Search Coil
- Triple-Output Speaker System
- Protected Control Panel
- Complete Instructions
- Battery Test Meter
- Adjustable-Length Stem

\$129⁹⁵



GARRETT'S NEW FASTBACK DESIGN

The Garrett GHOSTOWNER TR was built especially for the Coin Hunter, the Relic Hunter, and the Civil War "buff". The Sportsman who wishes to hunt *old coins* while continuing his main hobby can do so with the convenience of this **QUALITY**, combination **COIN** and **RELIC DETECTOR**.

The GHOSTOWNER TR is particularly suitable for the traveling salesman, the camper or vacation-bound individual who desires a metal detector but who does not wish, at first, to invest heavily for a professional instrument.

The GHOSTOWNER, with its **AUTOMATIC INDICATING METER**, its **TOTAL RESPONSE (wide-scan) SEARCH COIL**, and Garrett's recognized **QUALITY**, compares with competitive detectors selling in the \$125.00 to \$200.00 price range.

The Garrett GHOSTOWNER has more sensitivity than the Super **MINI-HUNTER TR** and will satisfy the most demanding individual.

SUPER mini-HUNTER Transmitter Receiver



General Purpose detector

- Quick-Response TR Circuit
- Total Response (wide-scan) Search Coil (8-inch)
- Grass-Proof, 100% Faraday-Shielded Search Coil
- Waterproof, Submersible Search Coil
- New, "Clear-as-a-Bell" Sound System
- Single-Knob Control Metal Tuning
- Adjustable-Angle Search Coil
- Triple-Output Speaker System
- Protected Control Panel
- Complete Instructions
- Adjustable-Length Stem

\$99⁹⁵



GARRETT'S NEW *FASTBACK* DESIGN

FAMOUS GARRETT QUALITY at this low-low price—hard to believe . . . BUT TRUE! The Garrett Super MINI-HUNTER TR detector is the perfect TR for the beginner or the perfect second detector for the professional. Garrett has not sacrificed quality or performance. Compare this low-cost instrument with other detectors, and see why the professionals say, "Anything with Garrett's name on it has got to be quality."

The Super MINI-HUNTER TR comes equipped with the HOT 8-inch Total Response (wide-scan) Search Coil. Being the "little brother" to the General Purpose Garrett Master Hunter TR, this model has a lot to live up to. And, it does! The Garrett Super MINI-HUNTER TR makes a perfect second detector for the professional or a great first TR instrument for the serious beginner.

SUPER mini-HUNTER



Beat Frequency

All Purpose detector

- All Purpose BFO Circuit
- Submersible Single-Coil Search Head (8-inch)
- Single Control Metal/Mineral Tuner
- Triple-Output Speaker System
- Crystal Controlled Oscillator
- Protected Control Panel
- Zero-Drift Stability
- Telescoping Stem
- Easy-Grip Handle
- Complete Instructions

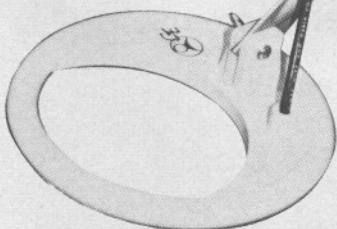


GARRETT'S

NEW *FASTBACK* DESIGN

\$99⁹⁵

The Garrett Super MINI-HUNTER BFO is the first truly-perfected low cost BFO metal/mineral detector ever to be introduced to the public. It is so stable, sensitive and rugged that it is guaranteed to outperform any competitive two-hundred-dollar BFO detector, or your money back. It comes equipped with the HOT 8-inch BFO search coil. The original Garrett Zero-Drift circuit is standard on the Super MINI-HUNTER BFO, along with the new All-Purpose BFO system and the Triple-Output Speaker. Being the Little Brother to the world-champion Garrett MASTER HUNTER BFO, this model has a lot to live up to. And, it does! The Garrett Super MINI-HUNTER BFO makes a perfect second detector for the professional or a great first BFO instrument for the serious beginner.



Garrett's NEW, IMPROVED GOLD PAN POSITIVE "GRAVITY" TRAP

(WET OR DRY)

Completely outdates metal and conventional plastic pans
the only gold pan with correct 90° "riffle" design.

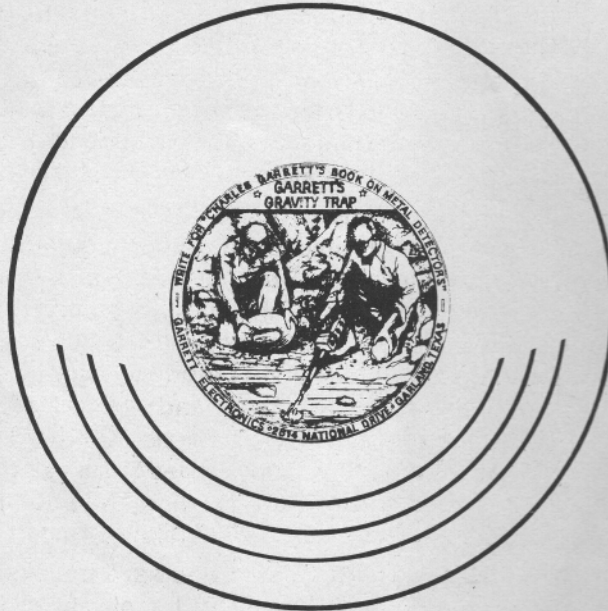
HOBBYISTS—
ROCKHOUNDS—
NUGGET HUNTERS—

14-Inch Diameter

Price of Gold is up-up

NEW GRAVITY TRAP

Designed especially for
the Beginner and
Weekend Hobbyist



Beautifully engraved prospecting scene on bottom.
Hang one in your den—perfect wall decoration.

Beautiful *Green* color—Gold,
Garnets, Sapphires...
Precious Gems show better.

FAST—SURE
"Wet"
Panning
in
Streams

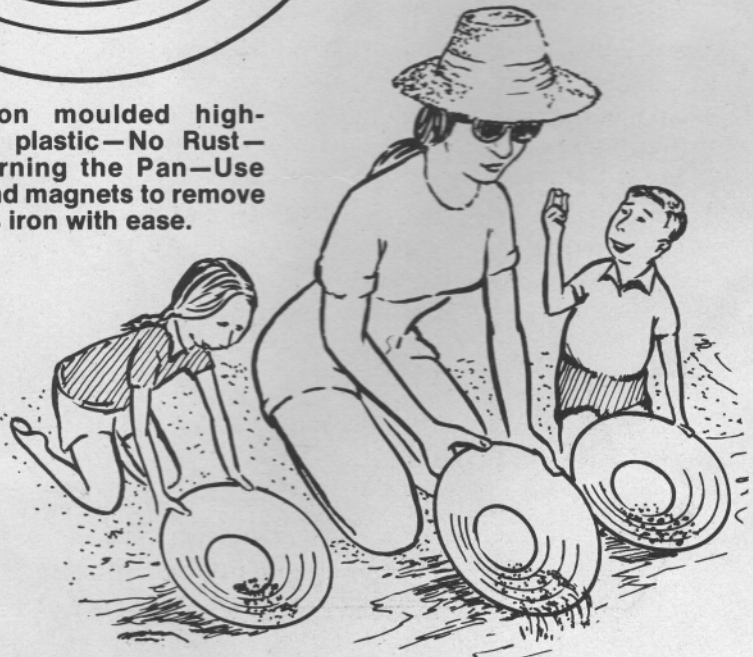
Makes Panning "Easy"
for ALL the Family



Investigate All
"Black sand"
Pockets

Injection moulded high-
impact plastic—No Rust—
No Burning the Pan—Use
acid and magnets to remove
ferrous iron with ease.

Fast, Easy
"Dry"
Panning
in
Dry Gravel



Recover ANY Material of High Specific Gravity

Will go hand-in-hand with your METAL/MINERAL Detector

Order your Pan with your detector—or order separately.

Dealer Inquiries Invited

**JOIN THE FUN—
Pleasure With Profit**

\$ 2.25

CHARLES GARRETT'S

Treasure Hunting Guide

Treasure hunting is now established as one of the major national hobbies. The American on the move considers his metal detector to be one of his most important tools, and it goes where he goes. Treasure hunting extends into many fields of interest: Coin Hunting, Relic Hunting, Bottle Hunting, Ghostowning, Prospecting, Nugget Shooting, and, of course, General Treasure Hunting. Many books have been written on these hobbies; however, I know of no guide or general introduction which covers the basics of all areas of treasure hunting. The books listed at the end of this guide describe many of the major treasure hunting and detector usage publications. The purpose of this guide is to introduce you to major treasure hunting hobbies.

Due to the wide range of treasure hunting situations and mineralized ground conditions which vary from state to state, the design of metal/mineral detecting instruments has become quite involved. Different types of instruments using several different probes and search coils are required. The operator of a detector must become familiar with these various types of instruments and search coils to become proficient in the use of his detector and get the most out of his time and effort. In order to build detectors which are perfectly adaptable to any type of THing the manufacturer must spend a great amount of time studying various soil conditions to learn how they affect different types of detectors. He must get out into the field and test his instruments under actual conditions to learn first hand how to build detectors that will do every job. He also needs this information in order to instruct his customers in the proper use of his detector and the many, varied fields of interest. It is impossible for anyone to learn all there is to know about the different hobby ideas of THing. Detector manufacturers should work with the individual in the field and make every effort to design and build instrumentation that will do the job.

There are men who have spent their lifetimes in THing; men who have traveled far and wide using all types of instruments in all types of THing situations. One such man is Roy Lagal of Lewiston, Idaho. Roy has worked with Garrett Electronics for several years testing, re-testing, evaluating and re-evaluating detectors under all THing conditions. He has given us invaluable knowledge in the fields of coin hunting, prospecting, nugget hunting and bottle hunting.

This guide is by no means complete. Persons who are treasure hunters are constantly getting into other areas of interest in pursuit of treasure leads. We think you will enjoy THing. No other hobby is so truly American. Every phase of THing puts you in touch with our American past. This hobby is rewarding, enjoyable and healthful. It lets you do your thing either by yourself, with your family, or with other groups. Enjoy it! If you don't, it's your fault!

All the information contained in this "Treasure Hunting Guide" is condensed from the following three books:

THE "HOW TO TEST" DETECTOR FIELD GUIDE, by Roy Lagal;

THE "HOW TO USE" DETECTOR FIELD GUIDE, by Roy Lagal;

SUCCESSFUL COIN HUNTING, by Charles Garrett.

These books in complete form may be purchased from your local Garrett dealer. They will become the basic building blocks of your reference library.

BE SUCCESSFUL

USE YOUR DETECTOR CORRECTLY

SUCCESSFUL OPERATION

A metal detector is an absolute must in THing. Only armchair treasure hunting can be accomplished without a metal locator! How successful a treasure hunter is depends to a very large extent upon how well he has mastered his equipment. An expert using the poorest metal detector on the market will do better and find more buried objects than will an inexperienced THer who is using the best possible detector. In short, the THer must learn to use the detector correctly.

There are three types of detectors in which the hobbyist and treasure hunter will be interested: the BFO, the TR, and the discriminator. These instruments, when of quality construction and correctly used, will do their job. The BFO is an all-purpose metal/mineral detector capable of performing well regardless of the treasure hunting task. The TR's performance is the reason for its popularity as a coin hunter and a general-purpose metal detector. A discriminating-type detector has the ability to reject most "junk" items in trashy areas while recovering coins and jewelry. Even though it has slightly less sensitivity than the popular TR or the all-purpose BFO, it still remains a popular second detector in the average American family.

The THer should purchase the type of detector which is best suited to meet his requirements. It cannot be over-emphasized that the THer must learn to use his instrument correctly. The detector instruction manual should be read thoroughly before operation of the detector is attempted. The operator should practice with his detector and use it exactly as the manufacturer has instructed.

LOST MILLIONS

Is there really buried lost treasure to be found? This is one of the most often asked questions by people who have begun to think about THing. A U.S. government office recently issued this statement: "The amount of lost treasure in the world is equal to ten times the value of all the wealth which is presently owned by all the people in all the nations of the world combined!" There is little doubt as to the truth in this statement. It has been said by many professional THers that there is probably more treasure being placed in the ground today than is being removed. Vast fortunes were buried by the pirates, the Spaniards, the Indians, and the outlaws. During the past two hundred years man has buried tremendous quantities of wealth. The most intriguing part of all is most of this treasure is still awaiting the treasure hunter!

Up until the early thirties when the banking system was placed on a sound basis, most families used post hole banks, usually a shallow hole dug in order to receive and store the family wealth. Frequently fence posts were pulled up and money and valuables were placed

in the hole. The post was then pushed back into the hole, thus the name, "post hole bank". Usually the head of the family was the only person to know the exact location of the "bank". If death came suddenly to this person the location of the bank was lost and perhaps never recovered. These "lost" treasures are still in the same location as when last seen by the owner.

Millions of dollars in money, coin and bullion hijacked by stagecoach, train, and bank robbers has never been found. Most loot taken from robberies and holdups was immediately buried in the vicinity of the robbery until things cooled off. Quite often a recovery was made, but probably equally as often the outlaws were captured, hanged, and the location of their ill-gotten gains died with them.

Lost coins would probably total into the billions! Coins are lost just about everywhere. Coin hunting is the most common form of THing today. When a THer learns the most likely places to look for coins, he never comes home without his pockets bulging with coins which may date as far back as the time of the Romans and the Egyptians!

Quite often as the THer searches for treasure, he will locate many other things which can be converted into cash. Articles of bygone days will always demand a good price. Relics, such as guns and knives, are quite frequently found. Civil War relics are demanding high prices today. Most of the Civil War battle areas are almost untouched by the modern-day THer. These areas should be diligently searched for souvenirs of our historic past. The more a THer searches for and finds treasure, the more he will come to realize that there is a vast fortune awaiting anyone who will diligently search for it.

TREASURE IS WAITING



Gold coins and other items found in box in Colorado ghost town.

TREASURE LAWS

Treasure trover laws vary from state to state. Whether a person is legally entitled to keep the treasure that he has found depends upon the state laws. If the legal owner of a treasure can be proved, the court will usually award the treasure to this owner with a percentage finder's award given to the THer.

However, if the treasure hunter is serious about keeping the treasure he has found, he should say absolutely nothing to anyone.

RESEARCH

Ninety percent of a successful treasure hunt is devoted to researching the treasure story before an actual search with detectors is begun. To search an acre of land thoroughly, a good day's work would be required. However, if a treasure is believed to be located somewhere within that acre, a little research and thought can usually narrow the location down to a few likely spots. Search along fence rows and around old trees and use triangulation if more than one tree, building, well, etc., is present. Search half-way between the house and the well, or, better yet, scan the entire length between these two points. Search around all building piers. A gallon jar filled with pennies was once found just below the ground surface on the inside of an old foundation pier.

How does one research a treasure story? This is a difficult question to answer in this limited space because no two treasure stories are just alike. The ability to research a story grows according to one's experience. The more experience a THer has, the better he is equipped to sniff out and use the important facts.

Watch the newspapers for leads and talk with the old-timers of the community. You will be surprised at the number of treasure leads you can turn up. Recently, a news story was released which told of a wealthy fellow who passed away leaving no heirs. The story related how the old man was wealthy and how he bragged about his riches. In all probability, he buried some of his wealth, and it is still waiting to be found.

Another story which appeared in a newspaper gave details of the death of an old man who lived in a cave for many years. All of his possessions were found in the cave. There is a good possibility that he may have buried his money in the cave or nearby. These are only two of the many different kinds of treasure leads which you should watch for in the newspapers.

All city, county, and state records are public records. Anyone has the right to look through them. The records of the sheriff, county attorney, and county clerk's offices are usually available. Anyone may check with the city surveyor for property lines, building locations, and rights-of-way. Telephone companies and public utilities have records which are available to the public.



Charles Garrett and Roy Lagal discuss old pistol found with early model Hunter detector.

SIGNS/SYMBOLS

Signs and symbols have been and are used quite frequently to show the way or mark the location of buried treasure. There are thousands of different signs and symbols used by people burying treasure. No attempt will be made here to discuss particular signs, but good books are available at most libraries or book stores.

Symbols carved into rocks are usually permanent, but, unfortunately, tree markings are lost within 50 to 100 years. If you discover a tree marking, try to determine from the age of the tree if the marking will be of value to you. If you find it difficult to read the marking, carefully shave off the outer tree bark. The symbol will be easier to read. A picture of the marking will reveal detail which the eye cannot see.

Symbols can mean several things. They can point the direction to a treasure, away from a treasure, or they can point to another symbol. A symbol might be one of several located in a geometric pattern. When a symbol is found, carefully search the area for other markings. Draw out the pattern. By doing this, the location of the treasure might become immediately obvious.

Symbols of the Greek, Spanish, German and Phoenician alphabets have been used. You should obtain copies of these alphabets as well as the Morse code. For example, the Morse code dot for "E" could mean to mark off a certain distance east of the symbol.

GOLD

The American citizen must live by and obey very clearly defined laws which regulate gold transportation and ownership. There must learn the laws which govern gold when it is found in its six most common forms: coins, placer deposits, ore veins, artifacts, jewelry, and bullion.

American gold coins can be collected and stored in any quantity. There are no restrictions placed on the ownership of gold coins except that they cannot be melted in order to obtain the gold content.

Placer gold is that form of gold which is usually found in wet or dry stream beds. Concentrations or pockets of small flakes and pieces of gold are called placer deposits. These deposits are usually found on the inside section of the bends in rivers or in cracks and fissures in river beds. These are the normal "settling out" regions where gold can concentrate.

The ore vein is more commonly known to most people. If a gold ore vein is discovered, the gold can be mined and transported to a smelter without federal intervention.

Any gold article which can be proved to be an artifact is considered to be a collector's item and can be kept by its owner. Spanish gold bars have been declared by the Internal Revenue Service to be collectors' items, but only if they bear the original Spanish mint marks.

Any quantity of gold jewelry can be kept and sold by its owner.

The U.S. government gold laws strictly forbid the ownership and transportation of refined gold. It is illegal to own and keep gold bullion in the United States or any foreign country. The law states that all bullion must be turned over to the authorities for proper disposition. According to law, if you find gold bullion, you are not permitted to touch it. You are to notify the authorities who will retrieve and transport it. If you can claim ownership or if no one else can prove claim to it, you will receive from the U.S. government the value of the gold less any smelting charges and income taxes.

One thousand fine is pure gold. For example, if a sample of gold is five hundred fine, then it is one-half pure gold. Twenty-four carat gold is one thousand fine or pure gold.

TAX LAWS

Most of the income tax regulations governing THers are simple and easy to understand. First of all, THing is considered a legal occupation and all income derived from and expenses incurred while THing are subject to the income tax laws. All expenses incurred in hunting treasure, including meals and lodging, are deductible. All books, maps, tools and minor equipment are deductible the year in which they are purchased. The major equipment, such as metal detectors, dredging equipment, etc., are deductible over a three-year period.

All treasure you find must be declared as income during the year in which you sell the treasure. If you find a pistol which is worth \$100.00 on the collectors' market, you do not declare this as income until the year in which you sell the pistol. If you donate artifacts to historical societies, etc., you may deduct the fair market price of the artifact.

What it all boils down to is all income derived from THing must be declared! Therefore, all expenses which are necessary to retrieve this treasure are deductible expenses.

COIN HUNTING



Hunting coins in old yard under clothesline.

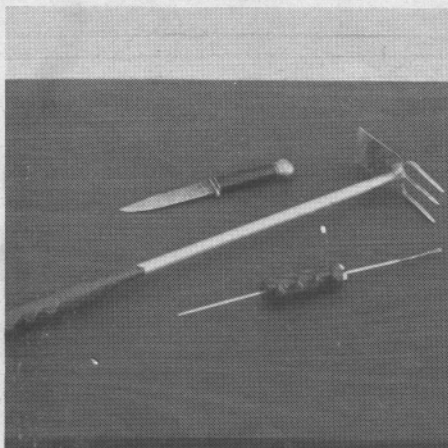
Single coin hunting is the most popular hobby in the world of treasure hunting. Hobbyists in Greece, Vietnam, Indonesia, Europe, Australia, and in many more foreign countries have begun this exciting and profitable hobby. The search for single coins is relatively simple and easy, and does not destroy the grass or ground from which coins are removed. Anyone from a small child to an adult can participate. The only requirements are a metal/mineral detector of good quality and the desire to begin an interesting hobby.

Sensitivity and correct search coil size for your detector are prime requisites to achieve success in single coin hunting. If you have chosen a TR (TRANSMITTER RECEIVER) detector set the tuning in the metallic mode of operation. Place the search coil flat on the surface of the ground. Following the manufacturer's recommended tuning instructions, adjust the tuning slightly until you hear a faint background of response. Move the search coil in a sidewise sweep in front of you overlapping each sweep slightly to prevent missing any coins. Some operators like to tune the TR in the "null" or "dead" area which makes operation more silent, but the effect is to lose part of the sensitivity and there is the chance of missing some deeper coins. Practice will be the deciding factor as to how the individual likes to set the tuning. It is not mandatory that you operate the TR search coil flat on the surface of the ground. You may wish to operate 1" to 2" above the ground. You will, however, gain a couple inches of depth by the scrubbing action of the coil when it is placed on the ground. Keep the detector properly tuned and slightly up in the tuning range to obtain the best depth on single coins. The choice of search coil type, standard or Total Response (wide scan) will lie entirely with the purchaser. The Total Response (wide scan) TR search coils are sensitive almost the entire length of the coil; the standard TR search coils must be overlapped approximately 70% to insure you don't miss the single coin.

The operation of the all-purpose BFO detector differs slightly from the TR detector. The BFO search coil will probably operate best at approximately 1"-2" above the surface of the ground, depending on ground mineral content. Set the tuning in the metallic mode of operation at a reasonably fast speed. Individual choices will vary on speed settings. Some like a moderate motor-boating sound; some like a faster tuning. The slightly faster speed will provide added depth. You will find the constant sound of the BFO audio variations slightly harder to distinguish than the quick response of the TR. With practice, however, you will be able to hear the increase in beats. BFO search coil choices include the independently-operated dual-coils. With these coils you may conduct your search with the larger coil, and then switch to the smaller coil to pinpoint a target. The dual-coil provides an advantage in the amount of search area which can be covered.

Fully-shielded search coils are very important on all detectors, especially in the search for single coins. Deeper coins produce a fainter signal, and grass and weed interference produced by unshielded search coils will garble or destroy the faint signal.

Many types of tools can be used to recover single coins. The combination rake and hoe shown is made from a small garden scratcher. Weld or in some way attach a longer handle on any type of small rake to produce the equivalent of this tool. It is meant to be used ONLY where slight digging or scratching does not damage or destroy the ground surface. This tool is useful for searching around old homesteads and isolated areas as you can quickly scratch or dig the small-coin or metallic object to the surface without bending over. By using the rake end to scratch through loose soil it is possible to expose small coins quickly. Such a tool is very popular to use in coin hunting contests when speed of digging is important, and any compact tool that enables you to expose the coin with the least effort is an asset.



Tools needed for coin hunters: combination rake and hoe; combination screwdriver and ice-pick; and hunting knife.

The combination screwdriver-ice pick is probably one of the most useful and essential tools in coin hunting, especially where care must be taken with turf. By careful probing with the ice pick it is possible to locate the coin quickly and then to insert the screwdriver under the coin to lift it out. To build this tool easily and with little expense, take an average-sized screwdriver and bend the end slightly so you will have a slight "hook" to insert under the coin to bring it up. Remove an ice pick from its wooden handle; drill a small hole just slightly larger than the ice pick in the handle end of the screwdriver; fill the hole with glue, insert ice pick, and let dry thoroughly. Smooth the ends of the ice pick and the screwdriver so you will not scratch the coins. With practice you will be able to lift coins quickly to the surface without damage and, most important, you will not mar turf or leave evidence that you have removed the coin. Always use a similar type of digging tool when conducting your search in turf areas.

The hunting knife is a commonly-used digging tool. Care must be taken when using a knife for "plugging" in dry weather, or the plug will dry out, leaving a brown spot. If you employ the plugging system cut a round circle as deeply as possible (do not scalp the sod), remove the plug and shake it. Generally the coin will fall out. If it doesn't, check the hole for a deeper object and inspect the surface of the plug. The target may be a tiny piece of foil or other metallic object merely caught in the top part of the grass. (Sometimes it is permissible to employ plugging on lawns, but you may be evicted from the park or lawn area.) Replace the plug, tamping it down firmly.

If you have purchased and practiced with a quality detector, gathered your digging tools, chosen an area where people have gathered in the past, and searched in a logical manner . . . YOU ARE ALMOST CERTAIN TO FIND COINS. This is why coinshooting is the largest hobby in the Thing world; with practice anyone can be successful at any time and in any place. If you are a fisherman or a hunter, you do not have to become a treasure hunter just to hunt coins. Purchase a detector to carry with you as you enjoy your primary outdoor sport. Sportsmen all over the world are adding the metal detector to their list of accessories. Think of the hours of interest a metal/mineral detector will create for your friends and family. When you have an extra hour to fill, remember that coinshooting produces more excitement and fun than any other hobby.

NUGGET HUNTING

Old placer diggings and the bottoms of dry washes are the most productive and rewarding locations for nuggets. In remote desert areas where water has never been available and the only method of recovery is "dry panning", there are millions of dollars worth of small nuggets. The nuggets rarely are detectable by eyesight, but they lie in



Gold nugget hunting in dry wash.



Scanning dry-diggin's for "metallic" readings.

almost plain sight or at very shallow depths. Investigation of low-lying areas with a highly sensitive metal/mineral detector can be very rewarding. Some knowledgeable nugget hunters have done quite well over the years by working dry or desert areas in highly mineralized locations. Use of the metal/mineral detector is practically the only method of locating these deposits. It is certainly one of the fastest.

The detector for this kind of searching should be a high quality BFO instrument with HOT sensitivity and a choice of smaller search coils. Due to the small mineralized pebbles that abound in such areas the BFO search coil will be most practical. Its constant sound feature will enable you to hear both metal and mineral responses. The BFO will *not* give a false signal on small, mineralized rocks, as will the TR. A 2-inch nugget probe will not cover enough search area for this kind of dry land operation so choose the 3½-inch coil; although it is possible to use the 5" or 6" coil in some areas. You will find that the 3½" coil has "hot" sensitivity to small, wheat-grain-sized nuggets, but it will still cover enough ground with each sweep to make its use practical. You can quickly check the bottom of dry washes, arroyos, ancient stream beds, or even spot-check big flat areas with relative ease and speed.

Do not expect great depth on these metallic objects. They are small and lie

generally among mineralized rocks. This will have a negative effect on even the best metal detector. However, you can cover much more ground than a man could shovel, even if you only obtain surface readings or perhaps a depth of an inch or so. All things considered, you will be surprised at the actual amount of ground you can work. This is the tremendous advantage of a quality BFO metal/mineral detector designed with prospecting in mind.

You will be tuned in the metallic mode of operation for nugget shooting making it extremely simple for the BFO detector to distinguish small concentrations of black magnetic sand. When your detector is tuned in the metal mode, a small nugget will produce a "zip" or slight increase in beats. When you pass over a small pocket of magnetic black sand, the sound will almost completely cut off or slow down noticeably. Since all BFO detectors use the constant or continuous beating sound, you will be able to check *all* indications without tuning the detector to the mineral mode to find the mineralized pockets. Black sand pockets sometimes contain a concentration of placer gold. Your tuning speed will be governed by the amount of mineralization present. For highly negative or mineralized ground increase the speed; for ground that is relatively free of mineralization set the tuning at a more moderate beat to obtain the best results.

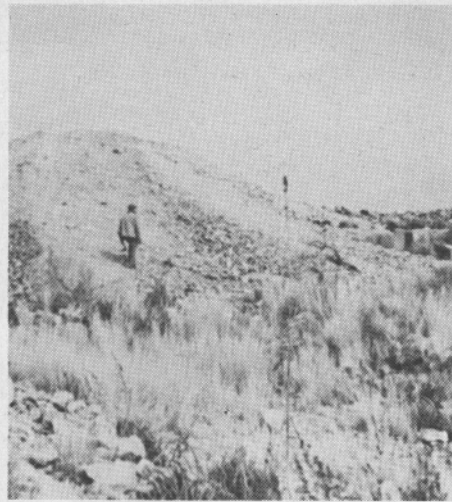
Operate your search coil as closely to the ground as possible to receive the best indication on small nuggets and to gain a slight advantage in depth. A fast sweep will produce the best signal on these tiny objects. A slower movement would allow the background noise to be confused with the signal.

All detectors are *not* suitable for prospecting, and poor results received with some detectors have simply caused the hobbyist to quit this interesting and profitable pursuit. A good all-purpose BFO detector will amaze you with the many things you can recover from the desert.

ROCKS, GEMS, MINERALS



Metal/mineral ore sample bench testing.



Field searching for gems.

The most important and useful tool of the rockhound (besides his rock hammer and patience) can be the metal/mineral detector. If it is properly understood and operated its use can be very rewarding and interesting, but it should not be used as the ultimate answer to the positive identification of all minerals and gems. Nothing can replace knowledge gained from experience in the identification of semi-precious stones and gems. The metal/mineral detector should be used as an accessory to the rockhound's field equipment to aid in locating conductive metallic specimens that the human eye cannot distinguish or identify. Check known samples and become acquainted with the metal/mineral detector. You cannot see inside an ore specimen; a good quality BFO detector can.

For identification purposes the metal/mineral detector defines "metal" as any metallic substance of a conductive nature in sufficient quantity to disturb the electromagnetic field of the search coil. Gold, silver, copper and all the non-ferrous metals are just that — *metals*. The only *mineral* that responds to the detector is magnetic iron, or iron oxide, chemically described as FE_3O_4 . If the BFO detector responds to a target as "metallic", bring it in; it contains conductive metal in some form. If the detector responds as "mineral" it means only that the specimen contains more mineral than it does metal in a detectable form. As a result of a few minutes work you might find some high grade metallic sample that has been passed over for years by fellow rockhounds.

Conduct bench tests to familiarize yourself with the response produced by both metal and mineral, using specimens you already know. This testing will aid greatly in future identification. When conducting your field searches, use the detector only as an aid, not as a complete searching tool. Test many rocks, for such testing will increase your knowledge and may help you find an enviable specimen. In the identification of mineral as opposed to metallic ores, the BFO detector will produce better results than the TR. The BFO will *not* produce different responses

to mineralized samples that come into contact with the search coil's electromagnetic field. The TR detector tuned in the metal mode will give different signals on the same specimen of metallic ore, depending on which part of the search coil it touches. A large gold nugget placed on the receiver portion of the coil will produce a metal response. Placing it on the portion of the coil containing the transmitting coil causes a mineral, or negative, response, as will a small pebble of extremely high grade magnetic iron ore on the receiver coil. On the transmitting portion of the coil it will respond as positive, or metallic. Many rockhounds have turned from the TR detector because of unreliable identification of known ore specimens. This is not a failing of the detector, but merely a function of its particular type of operation. Always use a quality BFO detector with a 100% shielded search coil when testing ore samples as the entire surface of the coil will respond the same, either metallic or mineral, and lessen the chances of false identification.

When searching for gems or high grade specimens of metallic ore, pay close attention to old mine tailings. You may find that "worked out" area isn't so barren, after all. Certain gems, such as the thunder-egg, have a covering of outside magnetic iron. Some forms of jade and even garnet respond to the mineral side of a good, BFO detector.

GHOSTOWNING



Digging for relics.

Old Coins — Money — Relics — Antiques

A popular and rewarding hobby is "Ghostowning". The word can cover a number of activities and a large variety of recovered items. You will discover old coins, perhaps a buried treasure cache, relics or antiques dating back to the Pilgrims, or lost items from only yesterday. Any place people have gathered will produce relics or coins. There are thousands of abandoned town sites, old forts, homesteads and farmhouse locations. The list is endless. Finding a place to search will never be your problem . . . only the time needed to pursue and enjoy your hobby. You will need a good metal/mineral detector

for your search since most surface items have already been picked up and those remaining will lie below the surface.

Ghostowning differs greatly from prospecting as a hobby. You may use any type of metal/mineral detector and achieve satisfactory results. The TR detector or the BFO will perform equally well in the search for small coins and relics. Your choice will be determined by whether you like the semi-silent operation of the TR or the constant beating sound of the BFO.

It is not necessary to purchase an expensive all-purpose detector with a number of search coils. Your interest will be in detecting small coin-sized objects and also being able to gain enough depth to find the shallow relics. The 8" search coil is the most logical choice. It is small enough to detect old coins and big enough to detect larger relics at reasonable depths. An 8" coil is standard on most TR detectors, but if your choice is the BFO, all-purpose type, you might consider independently-operated dual-coils. They are manufactured in the 8" size with an added small coil to enable you to pinpoint coins. A small search coil by itself would detect the coins but fail to gain the slight added depth advantage of a larger loop. The big search coils used in locating deeper treasure and caches would recover the relics, but would fail to detect the small single coins.

There are a few TR detectors equipped with only one large search coil. These are popular in some non-mineralized areas, but the large size of the search coil makes them unwieldy. It is possible to purchase high-quality detectors at reasonable prices when the model carries only the middle size, utility search coil, preferably the standard 8" loop. Your choice will depend on whether ghostowning is intended to be your sole hobby.

If you are thinking of purchasing one of the new discriminators that reject all items other than coins, you should consider the fact that a ghostowner will want to recover ALL metallic items, and the average detector will perform quite well for this purpose. If you decide on a TR your choice should be the Total-Response (wide scan) search coils. They allow added ground coverage for coins without the necessary overlapping sweep.

After you have chosen your detector all you have to do is locate a site which may have accommodated a number of people. Spot-check several areas to see if anything is there. It does not take much to confirm your location . . . perhaps an old nail or some other meaningful object. Sweep the entire area with your search coil if you have time. Otherwise choose the most likely-looking spots and pay close attention to both metal and mineral signals. Sometimes an old iron relic will deteriorate to the point where it may respond as mineral. It is returning to the natural state from which it came (magnetic iron), and is simply oxidizing, or rusting.

Books on the subject of "where to search" will help familiarize you with different areas. However, common sense and a good detector will generally take care of most of your problems. Few ghostowners come in empty-handed. The relics and old coins are there, just waiting to be found. Remember to leave the area as you found it — clean — and be sure to refill all holes. Use courtesy at all times; you might want to go back.

BOTTLE DUMPS



After metal detector gave metal reading indicating possible location of bottle dump, Roy Lagal probes to determine presence of bottles.

More and more collectors are turning to the metal/mineral detector to aid in the search for old bottle dumps. The great popularity of antique bottle collecting has reduced the number of easily identifiable dump areas and the number of digging spots. Some sort of tool or electronic device is needed to help locate the tin cans and other metallic items that generally abound in dump areas. The metal detector has proved to be the fastest and most practical aid.

The type of detector to use is not important, but you should use the larger search coils to gain extra depth. A few dumps will be rather shallow, and the standard 12" loop will be adequate, but most of the really old ones are deep. The larger search coils will be necessary, the larger the better, and you may recover some deep items other searchers missed with smaller coils. Choose fully-shielded search coils to eliminate grass and weed interference. The all-purpose detectors will operate best under these search conditions, but you will have some degree of success no matter what detector or method you employ.

When using a large search coil, make your swing in a straight pattern and operate about 4" to 6" above the ground. This will free the coil from some of the mineralization interference and permit you to hear the deep response more easily. A ground probe is helpful to save needless digging. When a signal is received, insert the probe to try to define what or how deep the metal is. Sometimes there will be NO glass in a small trash dump, and by using the probe in

conjunction with the metal detector you will save unnecessary work. Operate the detector in the metallic mode. A moderate beat will give the best response on deep signals.

Collectors interested primarily in antique bottles sometimes discover a treasure cache, so never abandon an area because there is evidence of digging and previous searches. It is almost impossible for any hunter to "clean" an area completely. Many areas that have produced good bottles are constantly being reworked by collectors using metal/mineral detectors, and areas searched many times are still producing. The detector will not replace the shovel and bottle rake, but it can help find concealed dumps others have missed.

HIGH GRADE ORE

Working some of the older, forgotten ore dumps of yesterday can be most profitable. Some mining companies were after only certain minerals or metals, and hand-sorting the high grade or specific types of metal is inefficient. Many good pieces of ore were discarded on the dump. Some dumps have been completely reworked for the minerals and metals left behind. Others are awaiting the modern-day prospector using a good, sensitive metal/mineral detector.



Testing for high grade ore (highgrading) at old mine dump.

A great failing of the average searcher attempting to locate high grade specimens in old mine dumps is to use the detector on the ore dump the same as he would in regular treasure hunting. He simply sweeps the detector over the discarded rock and ores and expects the detector to respond to small (but rich) amounts of metals among all the rubble of extreme MINERAL concentration. It is not reasonable to expect any detector to locate small specimens of metal in a jumble of rock generally heavy with iron. Sometimes mine dumps are a complete jungle of low-grade metals which produce a constant background of metallic response.

When you encounter a dump that may contain a few samples or specimens of high grade, lay your detector in a prone position on the ground. Tune in the

metallic mode. Use a small coil such as used for bench analysis (3½" or 5") and pick a few small samples of rock from the pile to test for metal content. If indications of metallic content are not found after a reasonable period of time, move to another area of the dump. Perhaps during the working period of the mine only a certain portion of the dump received the tailings from the vein. The rest may be only debris and muck from shafts and tunnels. Take samples from many locations, especially from the higher sections of the dump where some of *all* the different pieces have been placed at one time or another. If you still do not recover at least a few metallic specimens, you may be searching a dump where the ore was of a type that is *undetectable* on a metal/mineral detector. Also, the ore may have been of very low grade composition and of little value.

Do a little research and choose areas that produced HIGH GRADE ore that will respond well to the detector. The pocket country is ideal for this type searching. Most old-timers merely wet the ore and took only the high grade, commonly called jewelry rock, which is worth much more as specimens than its weight in gold. These specimens are in great demand today, and some hobbyists and treasure hunters do quite well at finding them. The easiest part is that someone else did all the digging, and all the searcher has to do is grade or analyze the discarded rock left on top. A good quality BFO metal/mineral detector will do this with ease, provided the metallic content is of the conductive type rich enough to respond.

FIELD SEARCHING

The words "field search" cover a lot of territory and many different phases of the prospecting hobby. You may look for float, ore chutes and chimneys, deep veins, etc. High grade float is small pieces of ore that have broken off from the main ore body and have floated or been washed by water across the surrounding terrain. Pieces of ore can be displaced by nature in many ways, even by man himself. A miner might carry a piece of high grade ore for years and finally misplace it, leading sometimes to searches for ore bodies not even in the vicinity. Generally float moves with gravity and tends to continue downhill or downstream. When a piece of high grade float is found, the best and most practical method of locating the source is to determine from which watershed it came. Search for additional pieces nearby and then determine in what direction to start.

Utilize a high quality BFO detector because of its continuous sound factor. Sweep the search coil in a regular search pattern, and notice that almost all of the rocks are mineralized. When you are tuned in the proper metallic mode of operation, the ordinary rocks found in most areas will respond as mineral. If there is an INCREASE in the sound or beats as you pass the search coil over a rock you have found a specimen that



Searching for high grade float.

contains metal which is generally non-ferrous, meaning some of the precious metals or ores. Conduct your search in a gully, creek bottoms, and similar terrain where you think the float had to stop. The small pieces of rock are heavy, and gravity eventually places them in the lowest areas. Also search uphill from your first find, and if you are fortunate enough to find another piece you know you are on the right track.

The best size coil for small mineral or metal float ranges from 3½" to no larger than the 6" coil. These coil sizes will give you better than average ground coverage and still be small or HOT enough to respond to metallic float. The pieces of float are not pure ore, rather, solid metal. They will not give a loud signal like a tin can. Tune the detector at a speed determined by the mineralized background. If it is highly mineralized, set the tuning faster to help overcome the effects. Try to cover as much ground as possible without being careless. You will be able to cover low spots and dry gullies with ease and speed, and this method generally produces the best results. Save all rocks that respond as positive or metallic. Also, if you notice a special one that shows TOO much mineral content bring it in for later analyzing or assaying. *Always investigate the unusual.* With luck and patience your search may be rewarded with riches — or at least with an interesting discovery.

ORE CHIMNEY: POCKETS

An ore chimney is a spot where volcanic pressure has pushed material containing metals and minerals up through a crack in the bed rock. When the material reached the surface, it cooled and remained as a small isolated pocket of ore, perhaps completely out of place. Searching for these areas is called "pocket hunting". Usually the pocket was covered by erosion and fallout, but never very deeply. Over many thousands of years the ore was gradually decomposed and, of course, gravity has almost always carried the decomposed ore downhill. Sometimes this ore will be small pieces of rich float or just plain placer gold. If the gold is concentrated enough and relatively free of iron oxides, there is a good chance it will respond to a sensitive metal/mineral detector.

POCKET HUNTING

Oregon is one of the states most famous for pocket hunting. The pockets mostly occur on hillsides where erosion has carried the gold downhill. The old prospectors followed these traces uphill by patient panning to locate the "pocket". Digging down a few feet, they removed the rich ore and hand-sorted it, taking only the rock with exposed gold. Remember this when searching old mine dumps. The holes are relatively shallow, and not too much rock is left by which to locate the dump; however, many of them are worth high-grading.

Location of rich pockets is most easily accomplished by the use of a BFO metal detector employing a medium or large search coil. You need the depth provided by the larger coils, and they will also cover more ground. Tune in the metallic mode, and sweep the search coil approximately 4" to 6" above the ground. Listen closely for the rather faint indication you will receive from the pocket. The signal is faint because overburden covers the pocket for a few feet, and the gold ore is NOT pure metal. If it is relatively free from iron oxides you will probably get a positive or metallic response. Pockets are not very large, and ores from them remind one of a sprinkling of small birdshot over a concentrated area such as a shooting range.

Some Oregon pocket gold occurs in porphyry, and digging is easy since most pockets are shallow. The gold is easy to remove by crushing the porphyry and panning the concentrates. There is no set pattern wherever gold occurs, and it is best to recall the old saying, "Gold is where you find it."

Rich pockets occur in almost every mining district. Washington State has probably the most rare type of gold occurring in pockets. It is the famed Crystalline Wire Gold that has been found around the town of Liberty, Washington, located in the Cascade mountain range that runs from Canada to the coast in Oregon. These Crystalline Gold nuggets are very beautiful, and are found only in this mountain range. It is probably the most expensive nugget ever to occur. The man who locates this type of pocket will probably be able to gold plate his detector and retire for life.

SEARCHING OLD MINES

One of the most frequently-overlooked and productive areas in any old mine is the tunnel floor. ALL the high grade ore had to come out through the main tunnel before dumping or milling. It is almost impossible to move any large amount of rock, either by small ore cars or by hand, and not lose or drop a few pieces. These small ore samples have gotten covered up by natural debris as the workmen drilled ever deeper into the earth and have laid unnoticed for many years, awaiting the hobbyist who employs the metal/mineral detector.

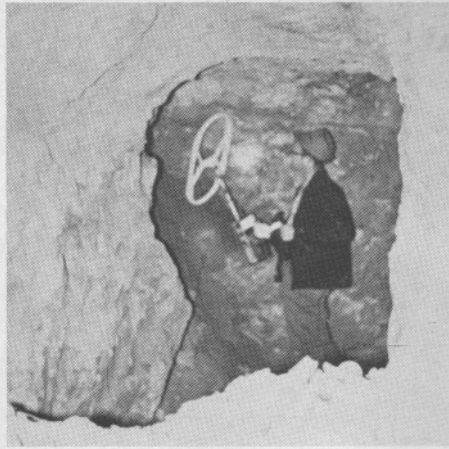


Many inexperienced searchers merely enter the mine and quickly sweep or search the tunnel floor, much the same as they conduct a search outside. This effort is almost always unproductive because they did not take into consideration that the mineralized background and other junk distort the faint signals that would be received from such small ore specimens.

To conduct a successful floor search use a high quality BFO detector. The BFO is generally necessary because of the high mineralization, and you need the wide tuning range, plus the slower response and continuous sound. Employ the smaller coil sizes (3½" or 5"), place the detector in a prone position as in bench testing and, using your rock pick, dig under the top debris. Test small likely-looking samples. Move frequently and test different spots. A large high grade sample would have been seen by the original miner and ONLY the smaller pieces would have been overlooked. However, due to the increasing price of gold and the rarity of good specimens, mine floor searching can be a very profitable venture, and the chance of coming home empty-handed is small indeed. Old mine floors are one of the most productive types of areas for small, but rare, ore specimens.



Scanning mine wall for "metallic" readings.



Searching mine wall for ore veins and pockets.

BLACK SAND POCKETS

Concentrations of black sand do not necessarily contain gold, but since magnetic sand is heavy and gold is heavier, both tend to stop in nature's traps. Notice when you operate your sluice box that the black sand also traps behind the riffles. It is the same with nature's "sluice boxes". Locating the black sand pockets with a metal/mineral detector is possible, both underwater and on dry land.



Wally McLaren, Charles Garrett and Karl von Mueller. Karl is locating black magnetic sand concentrations which will then be "run" through gold dredge shown in background.

Your choice of detector should be the all-purpose BFO. For underwater searches for black sand pockets the choice of search coil sizes should be governed by the bottom of the stream or river. If the bottom is rough and rocky and you have to search among large boulders, the smaller (5" to 8") will be more practical. If the bottom area is smooth and sandy and you wish to get all the depth possible, then choose the 8" or 12" to obtain both reasonable ease in maneuvering and maximum depth. An absolutely drift free detector is a must in the cold mountain streams. The water temperature was one of the major stumbling blocks encountered in previous search attempts in such

areas before the invention of zero-drift circuits and search coils.

Set the tuning at the most moderate beat possible. This will enable you to distinguish the response more clearly. You may tune either in the metal or mineral modes. If you are using the smaller search coils, 5" or 8", it would be to your advantage to tune in the metal mode. As you pass over the concentrations of black magnetic sand, the beat will slow down; but, should you pass over a large-size metallic GOLD nugget, the beat would speed up. With practice you would still be able to distinguish the black sand pocket while having the opportunity perhaps to locate an unusually large gold nugget or metal object.

When using the larger search coils, 8" or 12", tune in the mineral mode of operation. The coil size is such that the detection of small metallic objects (like gold nuggets) would be almost impossible. Tuned in the mineral mode the beat would increase as you pass the mineralized pocket of black sand, giving you better ground coverage and more depth with the larger coils.

If two or more operators are using a metal/mineral detector in conjunction with the underwater suction dredge, it is sometimes possible to choose the more heavily concentrated areas for dredging. One person can operate the detector and the other, the dredge. Your success will depend on the condition of the stream bed and whether it is possible to operate in and among all the boulders.

For dry land searches utilize the same methods as described above. Coil size will govern whether you might discover an unusually large nugget while conducting the black sand search. Also, the BFO detector will give true readings on either black sand pockets or on conductive metallic objects. Testing of various types of detectors will quickly confirm the BFO to be the most practical choice for this type of prospecting.

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