

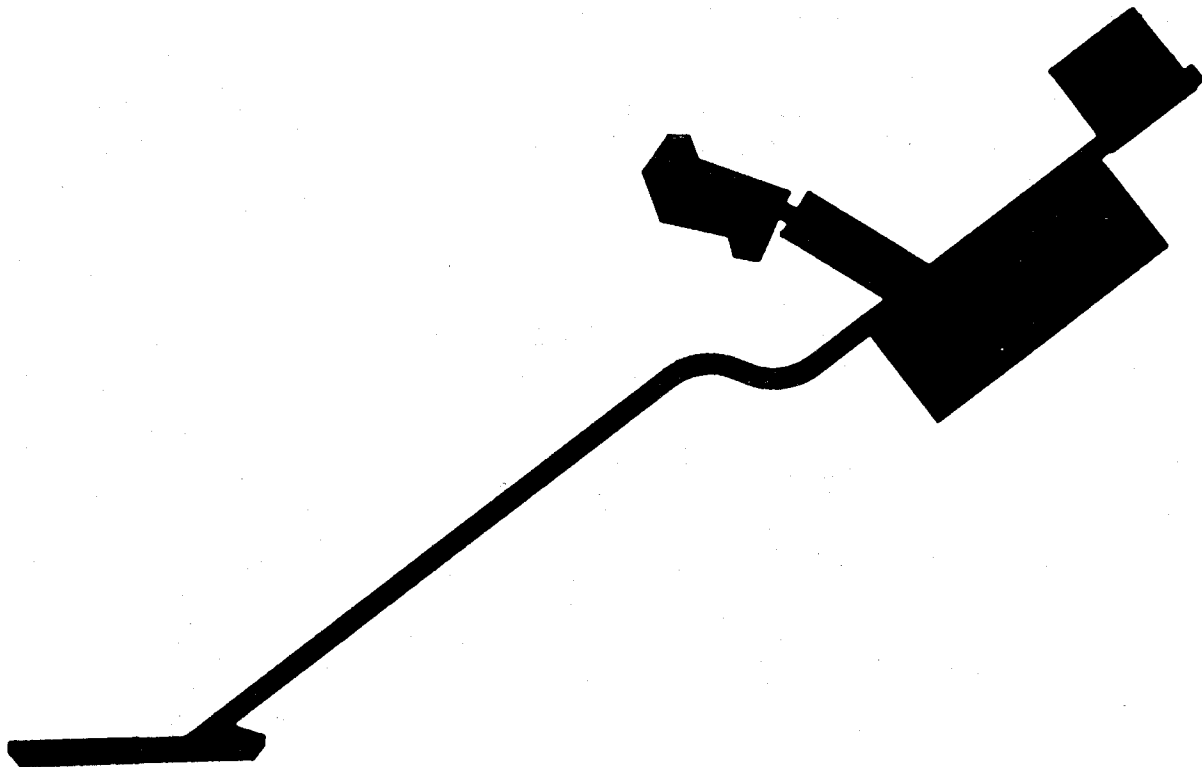
OPERATOR'S MANUAL

COINMASTER[®]

5500/D Series 3

METAL DETECTOR

Manufactured by WHITE'S ELECTRONICS, SWEET HOME, OR U.S.A.



ATTENTION

To use your 5500/D Series 3 under average conditions, set each of the controls to their "P" position.

Sweep the loop close to the ground. "When the loop is swept over a target", good metals sound smooth and solid, and junk metals sound rough and broken.

Once a smooth solid sounding target is found squeeze and hold the trigger on the handle to pinpoint and read target depth.

To fine tune for optimum performance, or for searching other than average conditions, please refer to the following manual for more detailed information.

**A Message From
Mr. Kenneth R. White
C.E.O. White's Electronics**

Congratulations! You are now the proud owner of the world's finest detectors. You'll enjoy the many relaxing hours you'll spend with your new detector.

Ahead of you lie exciting experiences you'll never forget. For years to come, you'll have yarns to spin about the places you'll visit, the people you'll meet, the history you'll learn, and the treasure and relics you'll uncover. We envy your journey and wish you every success.

Before we tell you how to assemble and operate your instrument, there are two important points to leave you with:

1. Your new detector is precision made and has been carefully tested at our factory. Properly cared for, it will last for years and years. Treat it like a good friend and it should never let you down.
2. Any piece of fine equipment is only as good as the person operating it. Become very familiar with your instrument. Practice as much as you can. Soon it will become a part of you.

You and your metal detector will make an outstanding team. We've known many "shooters" who could follow in the tracks of others and find buried coins and rings the others had missed. You've got the equipment to out-shoot most anyone. Now all you need is the practice.

Good Hunting,



Kenneth R. White

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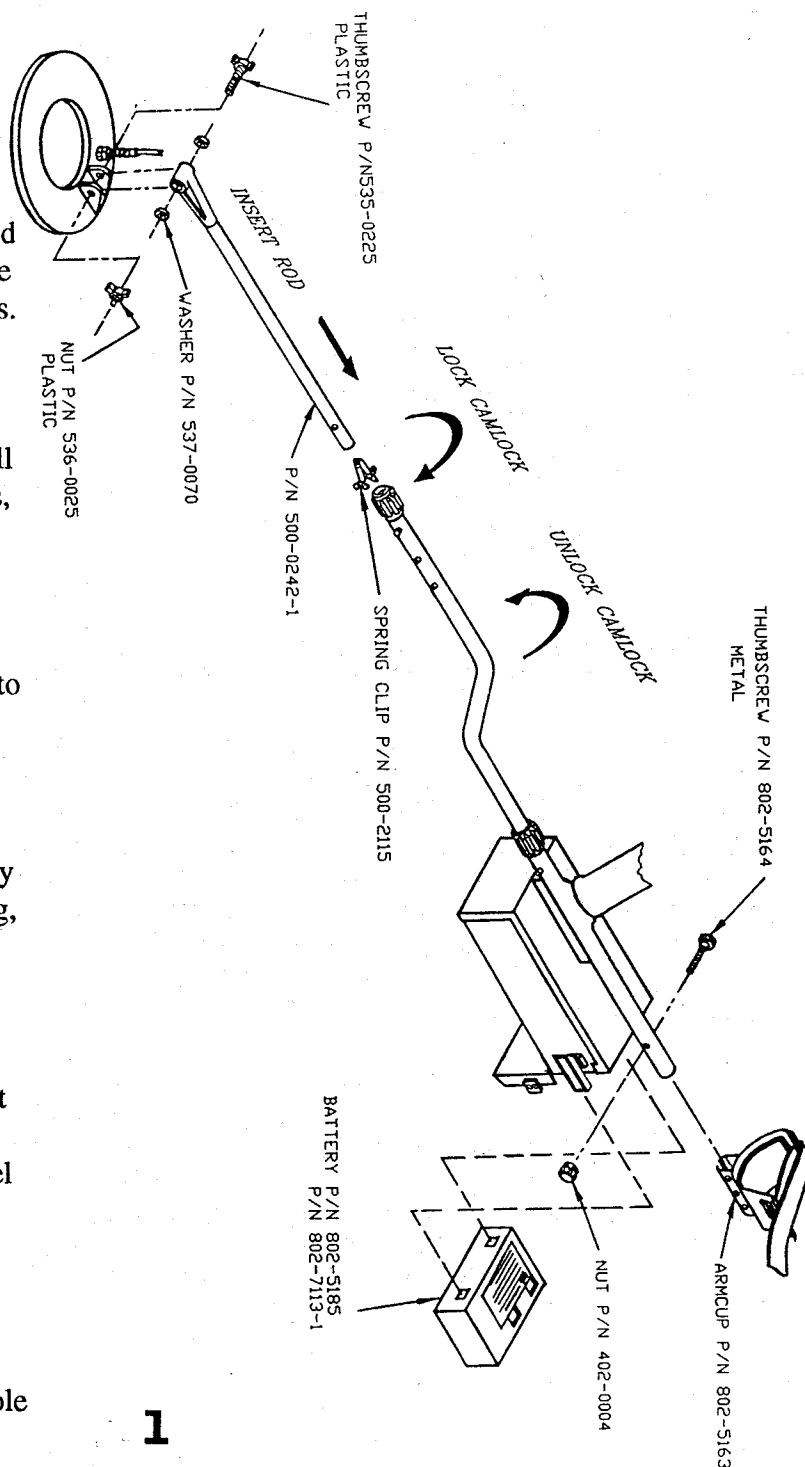
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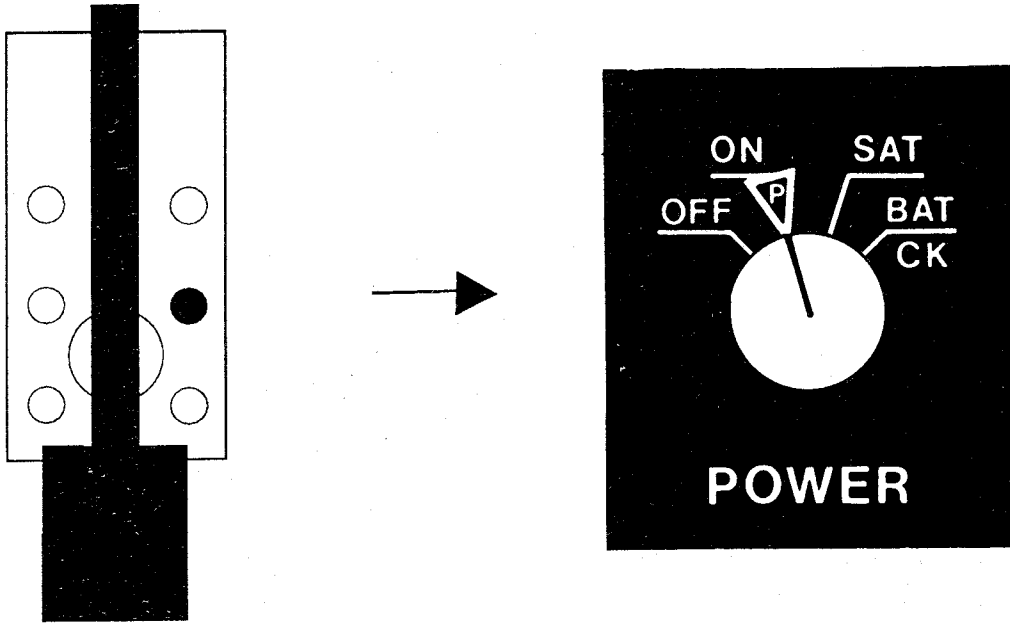
PARTS IDENTIFICATION AND ASSEMBLY

1. Remove all parts from the shipping carton.
2. Place loop washers on clevis/lower rod, one on each side, and slide clevis onto loop ears. Use fiber bolt and thumbnut to secure.
3. Insert clevis/lower rod into curved "S" rod so that stainless steel spring clip buttons line up and lock into one of the adjustment holes. Turn cam lock to secure.
4. Remove cable twist from the loop and wind loop cable around the rods, first revolution over the top of the rod. Wind cable all the way to the top, use black cable retainers, one near the loop and one near the curved "S" rod to hold the cable in place.
5. Insert the "S" rod assembly into the rod on top the control box so that the stainless steel spring clip buttons line up and lock into the adjustment holes. Turn camlock to secure.
6. Grip the instrument by the handle, with your arm in the elbow cup, and sweep the loop over the floor. Adjust the elbow cup by removing the nut and bolt and repositioning, so as to fit your arm length.
7. Apply optional arm cup foam pad to inside of arm cup.
8. Adjust arm cup strap so that it is loose enough for you to slide your arm in and out when you set the detector down to dig.
9. Install battery pack, decal facing up, steel contacts toward the loop.
10. It should be noted at this point, the detector may not work as expected indoors due to the high degree of metals used in modern construction. It is best to tune and use out-of-doors to ensure stable, predictable results.



EXPLANATION OF CONTROLS

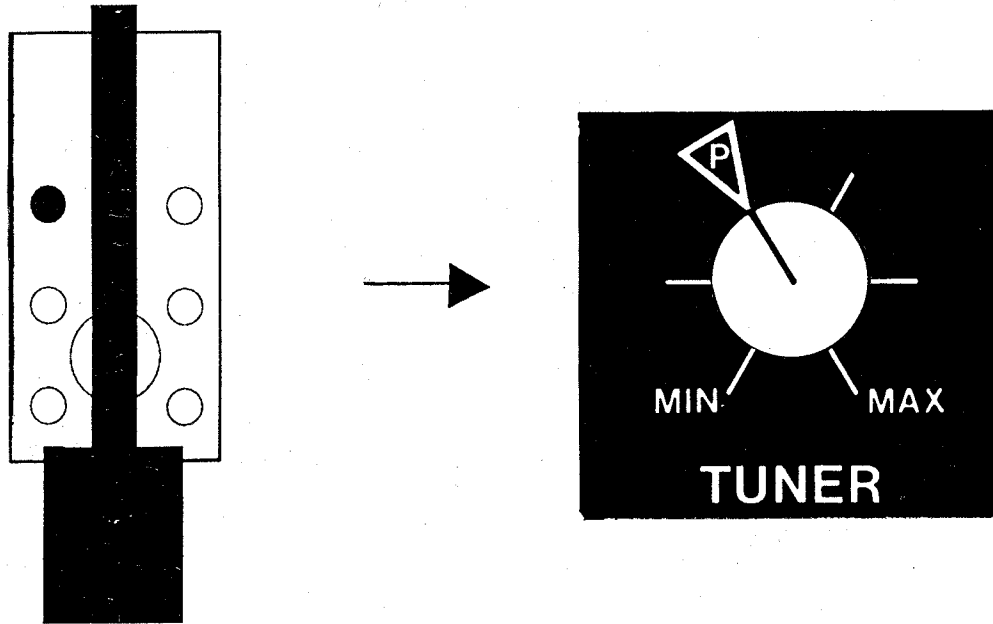
"POWER"



1. The POWER control turns the detector on and off, selects the SELF ADJUSTING THRESHOLD, (S.A.T.) and test the battery strength.
2. The (S.A.T.) position automatically performs a reset function to maintain an optimum threshold tone. This is useful when operating in either the GEB/NORM or the GEB/MAX modes. These two modes respond to all types of metals and may have difficulties maintaining a threshold, due to changes in the ground. Note that (S.A.T.) is not recommended for use in GEB/DISC or the TR/DISC modes as these modes utilize the threshold differently. When using (S.A.T.) in the GEB/NORM or GEB/MAX modes some loop movement is required for the instrument to detect metal.
3. In the BAT CK, (BATTERY CHECK), position the battery strength reads on the meter. So long as the battery strength checks in the "BAT. GOOD" area of the meter the instrument will perform consistently well. Once the battery no longer checks in the "BAT. GOOD" area of the meter performance will decline and at some point cease to function. It is advised that the batteries be replaced as soon as the pack no longer checks in the "BAT. GOOD" area of the meter.

EXPLANATION OF CONTROLS

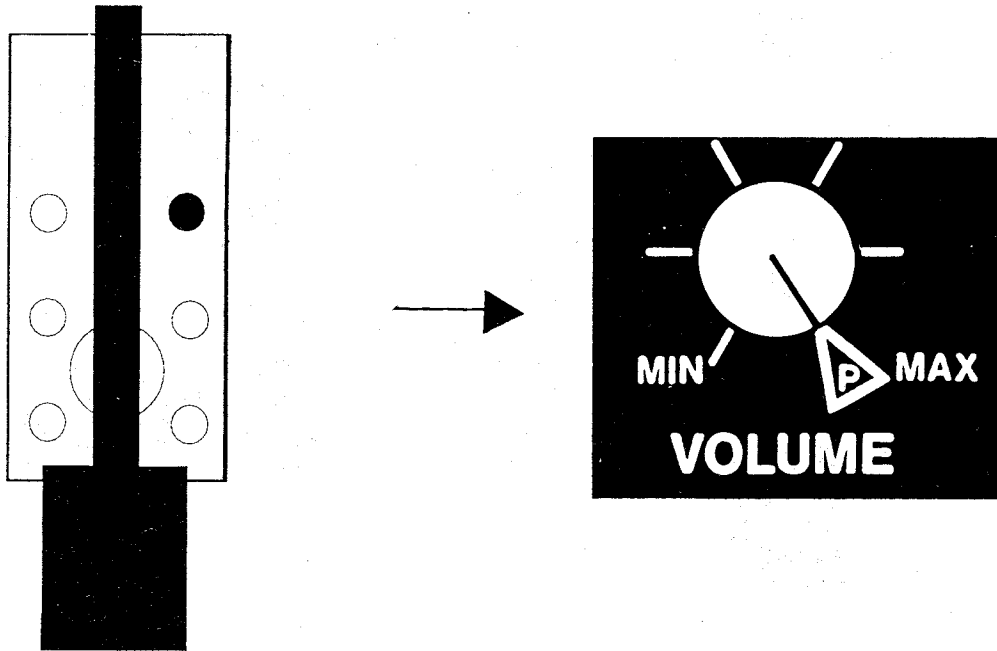
"TUNER"



1. The TUNER sets the detector's THRESHOLD.
2. The THRESHOLD is indicated by an audio tone that is barely heard. It represents the detector's maximum operating sensitivity.
3. To set the THRESHOLD:
 - a. Set all controls at "P", except MODE. Set MODE to GEB/NORM.
 - b. Hold the detector so that the loop is straight out in front of you waist high.
 - c. Squeeze and hold the TRIGGER on the handle, while turning the TUNER to the right, until a tone is barely heard. If turned to far, so that the tone is loud, simply turn left slightly until the tone becomes a barely noticeable hum. The threshold is then set.
4. The THRESHOLD needs to be reset when any control is altered. To reset the THRESHOLD, raise the loop waist high and squeeze and release the TRIGGER switch on the handle. Reset with the TRIGGER after each and every adjustment of a control.
5. The above steps describe the recommended way to set the THRESHOLD. An alternate way is to place all controls at "P" including the MODE control to GEB/DISC, and turn the TUNER control for a slight hum, without holding the TRIGGER. Either way the THRESHOLD will set properly.

EXPLANATION OF CONTROLS

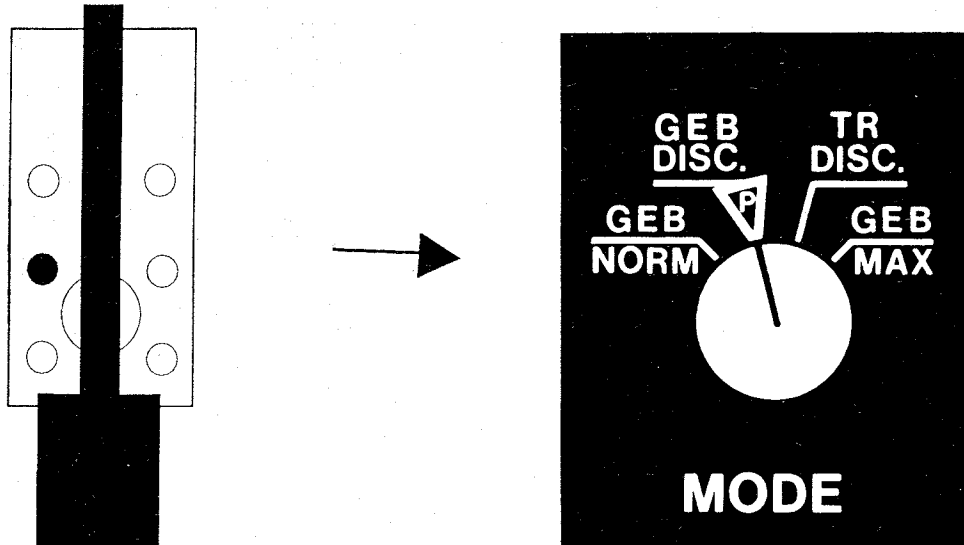
"VOLUME"



1. The VOLUME controls the maximum level of audio tone produced by a detected metal.
2. Maximum volume level tolerable to the operator is recommended when using this model, to assure maximum detection depth.
3. When headphones are used that have their own separate volume controls, it is recommended that the instrument's VOLUME remain at MAX, and the volume level be reduced by using the headphone volume control.
4. If the VOLUME control is set lower than the TUNER's threshold level, the instrument will not respond to metal with the audio tone.

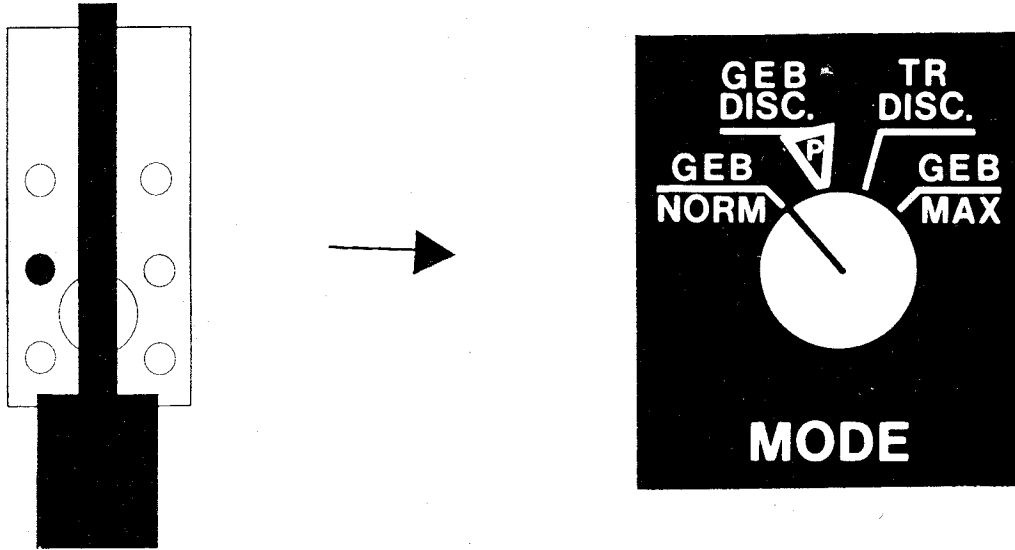
EXPLANATION OF CONTROLS

"MODE"



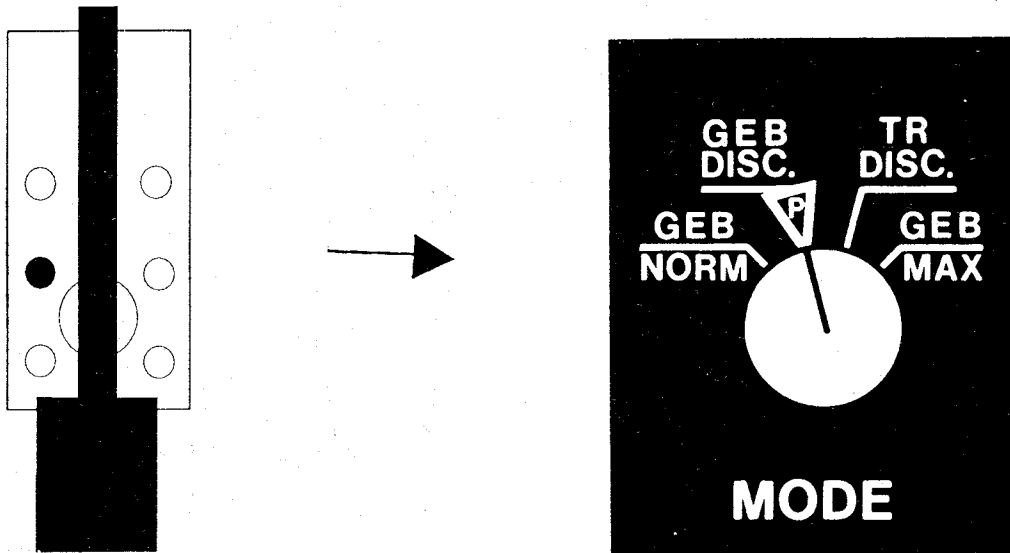
1. The MODE switch selects one of the detector's four operating modes.
2. Each MODE is designed for different search conditions and or operator desires.
3. The selection of a MODE will dramatically alter the way the detector behaves.
4. Each MODE has advantages and disadvantages which are explained in detail on the following pages.
5. Until an operator becomes familiar with the advantages and disadvantages, each MODE offers, it is recommended that the GEB/DISC mode be used for general purpose searching.

"GEB/NORM"



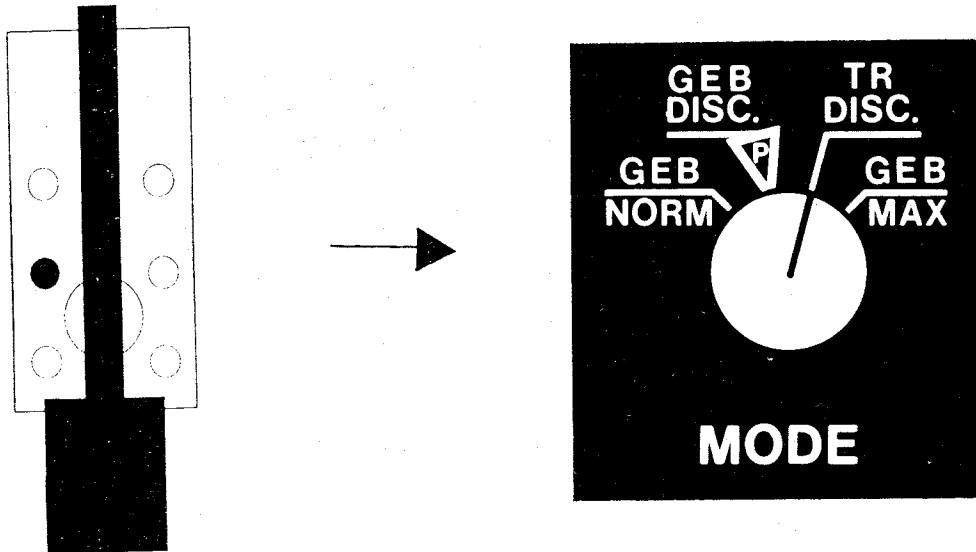
1. The GEB/NORM MODE locates all types of metals while rejecting the effects of ground mineralization.
2. The GEB/NORM MODE is recommended for prospecting, relic hunting, and, when in an area where there is little or no junk, like nails, pull tabs, aluminum foil, etc., coin hunting. GEB/NORM is also a desirable MODE when searching for iron or steel markers, pipes, valves, tools, or other such metals.
3. Before the GEB/NORM MODE is used the detector must be ground balanced, using the GEB control, so that this MODE will ignore the ground. See EXPLANATION OF CONTROLS / "GEB".
4. Once the GEB control is adjusted to ignore the ground the GEB/NORM MODE may respond to slight changes in the ground. The "SAT" option, on the POWER control, is recommended to smooth these slight changes. Caution always ground balance prior to selecting "SAT".
5. Prior to selecting "SAT" the GEB/NORM MODE will respond to metals regardless of whether the loop is moving or not. Once "SAT" is selected the loop must be moving, "in motion", in order to receive a response from metal.
6. GEB/NORM is often referred to as this models all metal mode, because it will respond to all types of metals, regardless of the alloy. Response to all types of metals is necessary when searching for iron objects, horseshoes, tools, etc., or when searching for metal alloys that fall close to the separation point between ferrous and non-ferrous, such as natural gold nuggets.

"GEB/DISC"



1. The GEB/DISC MODE can distinguish between many desirable and undesirable metal alloys, "DISCRIMINATE", while rejecting the effects of ground mineralization.
2. The GEB/DISC MODE is recommended for coin, and general purpose searching, when the rejection of both junk metals, nails, aluminum foil, etc., and ground minerals is desired.
3. For the GEB/DISC MODE to discriminate the DISC control must be set at a level which provides the desired amount of rejection against junk metals. See EXPLANATION OF CONTROLS "DISC".
4. Although the GEB control doesn't have to be set for the GEB/DISC MODE to operate, fine tuning the GEB control will increase detection depth and stability in all GEB modes. See EXPLANATION OF CONTROLS "GEB".
5. When operating in the GEB/DISC MODE the loop must always be moving, "IN MOTION" for the detector to respond to metals. When operating in GEB/DISC once a target is found squeezing and holding in the trigger switch on the handle will provide a non-motion pinpointing mode.
6. GEB/DISC rejects many common junk metals by giving them a sound different than that of a good target. A good target should sound smooth and solid where as a junk target sounds rough and broken. It takes some practice to get use to the sound differences this MODE produces however it will provide greater detection depth, in mineralized ground, than other types of discriminate modes. These differences in sound are dramatically effected by how the loop is swept over the target, particularly the speed of the sweep. It is not possible to totally eliminate all sound, from all junk metals, in the GEB/DISC MODE.

"TR/DISC"



TR/DISC MODE provides two distinctively different options;

1. First of all TR/DISC offers a mode that can distinguish between many desirable and undesirable metal alloys, "DISCRIMINATION", without the need of loop movement, and without the rejection against ground mineralization.

- a. This MODE is recommended when searching areas low in mineralization, or areas where there is no room to sweep the loop, as is necessary in the GEB/DISC MODE.
- b. For TR/DISC MODE to discriminate the DISC control must be set at a level which provides the desired amount of rejection against junk metals. See EXPLANATION OF CONTROLS "DISC".
- c. Because it doesn't reject ground minerals, "has minimal filtering", TR/DISC provides excellent depth and discriminate in areas void of ground mineralization. However, with the exception of the second TR/DISC option, this MODE will not work well in areas that have ground mineralization.
- d. To tune the detector to search in this MODE proceed as follows.
 1. Set the THRESHOLD, select the desired DISC setting, and place the MODE control in TR/DISC.
 2. Lower the loop to approximately one inch above the ground then squeeze and release the trigger switch on the handle.
 3. Lower the loop to the ground and search keeping the loop level to the ground and as close to the ground as possible. If the loop is lifted the detector may false target.
 4. If any control is altered, the loop will need to be held approximately one inch above the ground, and the trigger squeezed and released, before continuing.

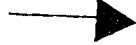
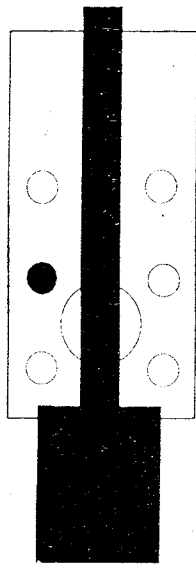
"TR/DISC"

2nd option

2. Secondly TR/DISC can be used to provide extended ground rejection, up to and beyond the regular GEB MODES. This may be useful when searching wet salt water beaches, unusually mineralized areas, or when prospecting. Once the TR/DISC MODE is tuned in this manner it will not discriminate against junk metals, thus doesn't act like a DISC MODE. It will respond almost exactly like the GEB/NORM MODE. Basically, when operating in the TR/DISC MODE, the DISC control can be used as if it were a GEB control. It can be fine tuned to reject the ground, at the lower end of the DISC control, labeled GND/REJ,(ground reject). Although a little more difficult than normal ground balancing, the DISC control can provide ground rejection levels for extreme conditions. To ground balance while in the TR/DISC MODE proceed as follows;

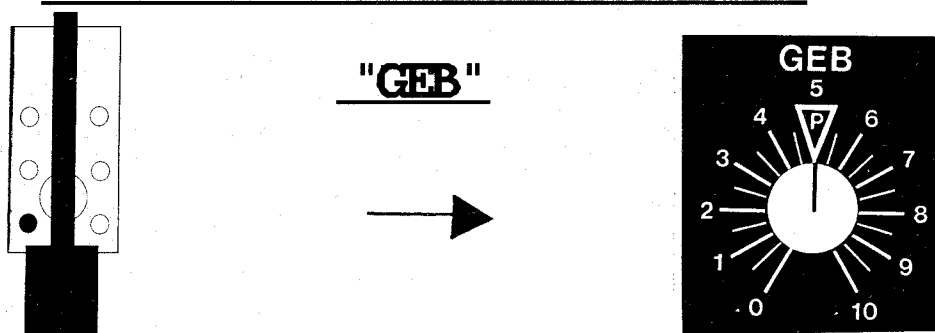
- a. Set the threshold, select the TR/DISC MODE, and place the DISC control on GND REJ.
- b. Squeeze and release the trigger switch on the handle while holding the loop at waist level.
- c. Lower the loop to the ground and listen for any change in the threshold hum.
- d. If the threshold sound doesn't change the instrument is ready to use.
 1. If the threshold increases, increase the DISC control clockwise slightly, squeeze and release the trigger switch on the handle with the loop at waist level, and again lower the loop to the ground, listening for any change in threshold. Note this is opposite the adjustment direction used when adjusting the GEB control.
 2. If the threshold decreases or fades, decrease the DISC control counter clockwise slightly, squeeze and release the trigger on the handle with the loop at waist level, and again lower the loop to the ground, listening for any change in threshold. Note this is opposite the adjustment direction used when adjusting the GEB control.
 3. Continue adjusting until little or no change is noted in threshold, between holding the loop at waist level, and lowering it to the ground. At that point the detector is ready to operate.
 4. Note that when adjusting the DISC control, a very small adjustment makes a big difference in the threshold. This is normal. It is also possible, in some areas, to have the actual DISC balance point achieved above the GND REJ marked area.

"GEB/MAX"



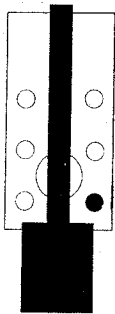
1. The GEB/MAX MODE locates all types of metals while rejecting the effects of ground mineralization and offering maximum sensitivity.
2. The GEB/MAX MODE is recommended for prospecting, relic hunting, and, when in an area where there is little or no junk, like nails, pull tabs, aluminum foil, etc., coin hunting.
3. Before the GEB/MAX MODE is used the detector must be ground balanced, in the GEB/NORM MODE, using the GEB control, so that the detector will ignore the ground. See EXPLANATION OF CONTROLS/ "GEB".
4. Once the GEB control is adjusted to ignore the ground the GEB/MAX MODE may still respond to slight changes in the ground. The "SAT" option, on the POWER control, is recommended to smooth these slight changes.
5. Caution always ground balance in the GEB/NORM MODE prior to selecting the GEB/MAX MODE. If desired the GEB control can then be fine tuned, once the GEB/MAX MODE has been selected, using the same procedure as is used for GEB NORM. Caution always ground balance prior to selecting the "SAT" feature.
6. Prior to selecting "SAT" the GEB/MAX MODE will respond to metals regardless of whether the loop is moving or not. Once "SAT" is selected the loop must be moving, "in motion", in order to receive a response from metal.
7. GEB/MAX is identical to the GEB/NORM MODE with the exception that it is considerably more sensitive. When all types of metals are desired, the GEB/MAX MODE offers the deepest detection depth. GEB/MAX is this models most sensitive operating MODE. In some cases it may be too sensitive for extreme ground, such as wet salt water beaches, areas high in iron, or areas containing black sand. In such areas use one of the other MODES.

EXPLANATION OF CONTROLS

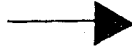


1. The GEB control is set in the GEB/NORM MODE however effects all three of the GEB MODES, (GEB/NORM, GEB/DISC, and GEB/MAX). It is used to reject, or neutralize, the effects the ground mineralization has over the detector. By setting the GEB control the detector can see through the ground mineralization better, thus detect deeper, and have fewer difficulties relating to the ground conditions. This step is commonly called ground balancing.
2. The "P" setting works well in most conditions however for maximum results the GEB control should be set for each new area to be searched.
3. To ground balance the detector set all the controls to "P" except, MODE to GEB/NORM and, TUNER to THRESHOLD.
 - a. Lower the loop to the ground. If the threshold sound doesn't change, the detector is already ground balanced and ready to use.
 - b. If the threshold sound increases, lift the loop to waist level and turn the GEB control slightly counterclockwise, ("left"). Squeeze and release the TRIGGER on the handle, and again lower the loop to the ground.
 - c. If the threshold sound decreases, lift the loop to waist level and turn the GEB control slightly clockwise, ("right"). Squeeze and release the TRIGGER on the handle and again lower the loop to the ground.
 - d. Continue with steps "b", and "c", until little or no change in sound is noted as the loop is lowered to the ground. At that point the ground is being rejected.
 - e. If adjusting the GEB control seems very difficult, the loop may be over a metal. Move to another spot and try again.
 - f. Squeezing and releasing the TRIGGER, with the loop at waist level, is extreme important, after each adjustment to the GEB control.
4. When wanting to search in a MODE other than GEB/NORM, first ground balance in the GEB/NORM MODE then switch to the GEB MODE of your choice, and squeeze and release the TRIGGER on the handle.
5. Although the GEB control can be set to ignore the ground, it doesn't guaranty immunity to all types of mineralization. Changing ground for example may require the "SAT" feature to stabilize the NORM and MAX MODES.

EXPLANATION OF CONTROLS



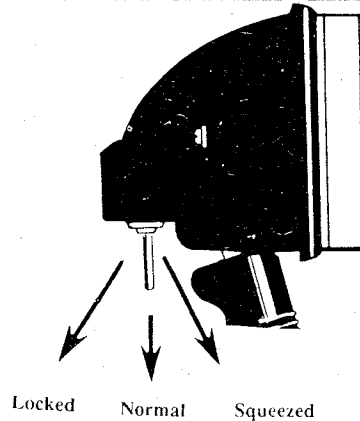
"DISC" (Discrimination)



1. The DISC control works when the detector is in either the GEB/DISC, or the TR/DISC MODES. It is used to determine what types of metal targets are rejected through discrimination. Discrimination is the selective rejection of some metals.
2. At the minimum setting all types of metals are detected. As the DISC control is turned clockwise metals start to be rejected. Beach salt, which acts like a metal due to its conductivity, is the first thing to be rejected. If searching the wet part of a salt water beach the DISC control will need to be set at least as high as the SALT marking on the DISC control. The first real metal to be rejected is NAILS and most iron, followed by aluminum foil, pull tabs, and at MAX DISC aluminum screw caps.
3. The "P" position is recommended as a good all around setting.
4. A DISC setting of about 5, or higher, risks the rejection of some valuable metals, particularly jewelry. A DISC setting above "P" will likely reject jewelry, as well as nickels. When searching for jewelry, such as gold rings, a DISC setting of "P" or slightly below is recommended.
5. When a metal is rejected by the DISC setting it may either;
 - a. Produce no sound at all.
 - b. Produce a broken or flutter sound.
 - c. Or produce a clipped short click sound.
6. Good metal targets produce a smooth solid sound.
7. It takes time to get use to the different sounds produced by the discriminator, particularly in the GEB/DISC mode. We suggest practicing by placing a coin and a steel bottle cap on top the ground. Pass the loop over each target at different sweep speeds and DISC settings. Get use to the correct amount of loop movement required to discriminate, and the broken sounds produced by junk.
8. Discrimination should be used only as necessary to make it practical to search an area. Too little discrimination will result in spending a majority of your time digging junk. Too much discrimination will result in passing over valuable items, such as jewelry. The idea is to use enough discrimination to make searching an area practical. The only way to get all the valuables in an area is to dig all metal responses. Using the discriminator, the law of averages will produce many valuables, and avoid spending a lot of time digging junk.

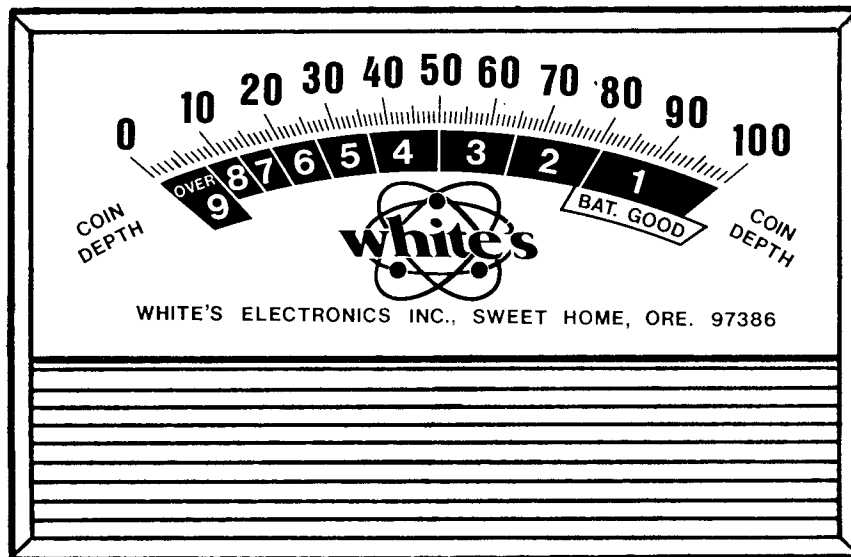
EXPLANATION OF CONTROLS

"TRIGGER SWITCH"



1. The TRIGGER switch is the most often used control and has multiple uses.
 - a. Resets or clears. Any time any control is adjusted, changed, or moved for any reason, the TRIGGER should be squeezed and released. This resets or clears so that the new setting will operate correctly. Squeeze and release the TRIGGER after making an adjustment, not before.
 - b. Changes MODES. When the TRIGGER is squeezed and held the operating MODE temporarily changes to the opposite of that shown on the MODE control. GEB/NORM changes to GEB/DISC, GEB/DISC changes to GEB/NORM, TR/DISC changes to GEB/DISC, and GEB/MAX changes to GEB/DISC. This is a useful feature for checking targets in more than one mode, and for pinpointing.
 - c. Pinpointing. Repeatedly squeezing and releasing the TRIGGER, when the loop is held over a metal target will center the target response under the center of the loop. Caution the target may completely disappear. If it completely disappears simply move the loop off to one side and squeeze and release the TRIGGER again. The target should then respond as before. This procedure works best in the GEB/NORM OR GEB/MAX MODES. It will also work well when in the GEB/DISC MODE however is completed differently. When in the GEB/DISC MODE pinpoint by squeezing and holding in the TRIGGER. Further pinpoint by releasing and again squeezing the TRIGGER with the loop over the target area.
2. The TRIGGER has three positions;
 - a. The center position is used for normal searching.
 - b. The squeezed and held position is used for pinpointing and temporary MODE change.
 - c. The locked forward position is identical to the squeezed and held position.

METER



1. The METER registers signal intensity, (measured by the 0-100 scale). the probable depth of coin sized targets, (measured by the OVER 9-1 scale), and measures the strength of the batteries, (BAT. GOOD).
2. Signal intensity and the probable depth scale can be used to aid in pinpointing, and get an idea of the depth of the target. Simply "X" the loop slowly over the target, and note that the furthest meter movement to the right indicates target center, and probable depth. The depth meter is only accurate on coin sized targets. If the target is smaller, or larger, than the average coin, depth reading will not be accurate.
3. When the POWER control is placed in the BAT CK position, the battery condition is shown on the METER. As long the batteries check in the BAT. GOOD area of the METER, the detector will work properly. When the batteries no longer check in the BAT. GOOD area of the METER, the detector will start not operating properly. Replace the batteries as needed to assure proper performance. Battery life will vary with operating MODE, number of target responses, and atmospheric conditions. A quality set of alkaline batteries can be expected to last between eight and ten hours under normal use. The use of headphones will increase battery life. Quarter inch jack, 8-16 ohm headphones are recommended. Headphones are available as accessories from most dealers. Rechargeable battery systems are also available as accessories, from most dealers.

STEP-BY- STEP TUNING

1. Once assembled and batteries installed start by going out of doors, preferably in your own yard. The detector may not tune well indoors due to the high degree of metal in floors, furniture, walls, etc.
2. Place all controls at "P", except MODE set to GEB/NORM.
3. While holding the loop at waist level, squeeze and hold the TRIGGER on the handle, and adjust the TUNER control for a slight hum, release TRIGGER.
4. Now lower the loop to the ground, and listen for any change in the slight hum. If there is no change in the hum, as the loop is lowered to the ground, the ground balance is already correct for the area, (skip to step 5). If there is a change in the slight hum, as the loop is lowered to the ground, (proceed with "a", "b", and "c").
 - a. If when the loop is lowered to the ground the slight hum increases, lift the loop to waist level, turn the GEB control counterclockwise, (to the left), slightly, squeeze and release the TRIGGER on the handle, and again lower the loop to the ground.
 - b. If when the loop is lowered to the ground the slight hum decreases, lift the loop to waist level, turn the GEB control clockwise, (to the right), slightly, squeeze and release the TRIGGER on the handle, and again lower the loop to the ground.
 - c. Continue with steps "a", and "b", until little or no change in sound is heard as the loop is lowered to the ground. Caution it is very important that the TRIGGER is squeezed and released with the loop at waist level, after each adjustment to the GEB control. Note that if it is very difficult to make this adjustment, move over to a different spot on the ground, as the loop may be over a metal.
5. The instrument is now ready to operate. A MODE needs to be selected that will provide the desired features the operator desires, and that works well in the type of search conditions encountered.
 - a. GEB/NORM detects all metals. Leave the mode control in GEB/NORM if the detection of iron, steel, aluminum, as well as valuable metals is acceptable. GEB/NORM is also recommended for prospecting for natural gold nuggets, and relic hunting. The "S.A.T." feature on the POWER control is suggested for greater stability while in the GEB/NORM MODE. Once "S.A.T." is selected the loop must always be moving slightly for the instrument to respond to metal.
 - b. Switch to the GEB/DISC MODE for most general searching. The loop must always be moving, sweeping from side to side, for GEB/DISC to work properly. GEB/DISC will reject junk metals based on the DISC control setting. Junk metals produce broken or rough sounds and good metals produce smoother, solid sounds. To pinpoint while searching in GEB/DISC squeeze and hold the TRIGGER, and "X" the target.

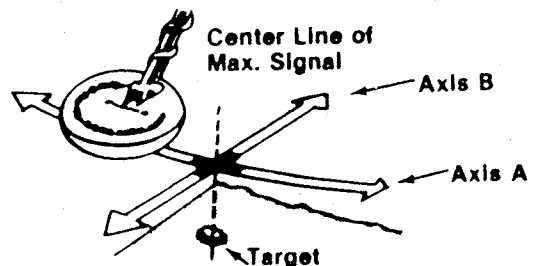
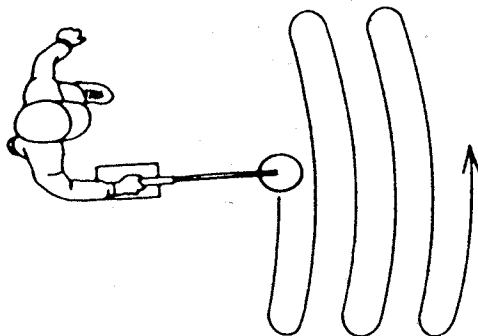
STEP-BY-STEP CONTINUE

- c. If when completing step "4", you could skip steps "a", "b", and "c", with little or no change in sound as the loop is lowered to the ground, TR/DISC may be a better MODE to use in that area. To use TR/DISC, first switch to the TR/DISC mode, then lower the loop to approximately one inch above the ground, and squeeze and release the TRIGGER on the handle. Now lower the loop the rest the way to the ground and search. If the loop is lifted from the ground the detector may give a false response. The loop doesn't need to be moving for TR/DISC to work properly.
 - d. If maximum sensitivity is desired to all types of metals the GEB/MAX mode should be selected. GEB/MAX is identical to the GEB/NORM MODE, with the exception that it is more sensitive. The GEB control can be further fine tuned once in the GEB/MAX MODE. Use the same procedure as for the GEB/NORM MODE. The "S.A.T." feature on the POWER control is highly recommended when operating in the GEB/MAX MODE. Once "S.A.T." has been selected the loop will need to be moving slightly for this MODE to respond to metals.
6. Another option one may consider changing is the DISC control setting. The DISC setting determines what types of metals are rejected, and what types of metals are detected while in either the GEB/DISC or TR/DISC MODES.
- a. The "P" setting, or the furthest point clockwise that still responds well to the United States nickel, is highly recommended, to avoid rejecting some valuable items.
 - b. Settings further clockwise reject more junk however, run the chance of rejecting some jewelry.
 - c. Settings counterclockwise accept more targets, of all types. Lower DISC settings are recommended in areas that have little trash or, areas more thorough searches are desired.
7. Always keep the loop flat and parallel to the ground. When the loop is lifted, or tilted in relationship to the ground, depth penetration is decreased.
8. Swing the loop in front while searching. Each swing of the loop should take about two seconds from left to right and about two seconds back from right to left. The sweep of the loop is critical for proper performance. Practice by placing a coin, and a steel bottle cap, on the ground and sweeping the loop over each. Note the correct sweep speed required for the Mode you are using.
9. The loop should be passed along the ground in smooth even sweeps, not too fast nor too slow.
10. Once a target is detected, sweep it from several different directions, example, east - west - west - east then try north - south - south - north, and note its audio characteristics. Good metals make mostly smooth sounds where as junk metals make mostly rough sounds in the DISC MODES.

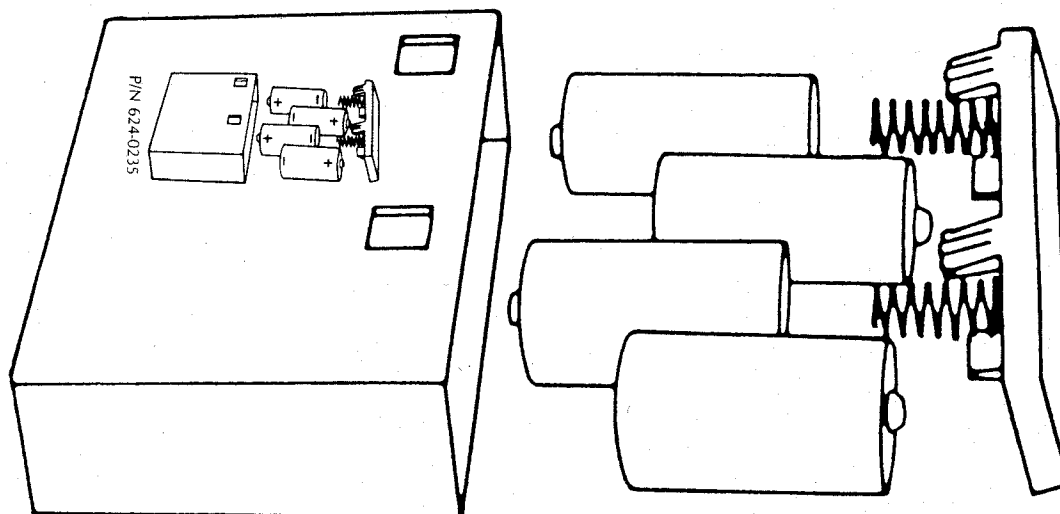
STEP-BY-STEP CONTINUE

11. Once the decision to dig a target has been made, the need to pinpoint exactly where to dig becomes evident. The detector loop is made to cover as much area as possible. This combined with the fact that many of the MODES require continued motion to respond to metals, and that it is inconsiderate to dig big holes in a nice lawn, make pinpointing techniques important. Pinpointing steps vary with each MODE.

- a. GEB/NORM & GEB/MAX - When using the GEB/NORM or GEB/MAX MODES, without "S.A.T.", pinpoint by slowly "X"ing the loop over the target area. To further pinpoint squeeze and release the TRIGGER, several times, as the loop passes over the target. The strongest response, and furthest meter movement to the right, indicates the target is centered under the physical center of the loop. Before continuing to search, squeeze and release the TRIGGER with the loop at waist level. When the "S.A.T." feature is used, simply slowly "X" the loop over the target several times, being sure the loop is always moving slightly. Although the loop can not be stopped over target, the target center can be "eyeballed" with a little practice. Some operators prefer to turn off "S.A.T." to pinpoint.
- b. GEB/DISC - When using the GEB/DISC MODE the loop must always be moving in order for the instrument to respond to metal. This makes pinpointing in GEB/DISC very difficult, even more so than GEB/NORM with "S.A.T.". Fortunately the TRIGGER on the handle switches MODES temporarily. When searching in the GEB/DISC MODE, to pinpoint a target, squeeze and hold the TRIGGER. This puts the detector in the GEB/NORM MODE temporarily until the TRIGGER is released. While holding the TRIGGER "X" the loop over the target. Release and re-squeeze the TRIGGER several times while "X"ing the loop over the target to further pinpoint. Again the strongest response and furthest meter movement to the right indicates target center.
- c. TR/DISC - When using TR/DISC pinpointing is completed by simply "X"ing the loop over the target. TR/DISC is the easiest MODE to pinpoint as the loop doesn't detect as wide an area while in TR/DISC.
- d. Note that if the TRIGGER is used, too much, over a target, the target will cease to respond. If this occurs, simply lift the loop to waist level, squeeze and release the TRIGGER, and again attempt to pinpoint.



BATTERIES



"INSERT INTO DETECTOR"

The standard battery pack holds four "C" size batteries. Alkaline batteries are recommended as the best disposable type. "C" rechargeable can be used in this holder, or a standard rechargeable system can be purchased from your Dealer.

1. Open the battery pack lid by applying pressure down on the locking tab openings, there are two on each side. First unlock one side, then the other, and pull the door off.
2. Install four "C" cell batteries, the flat side of each battery goes against a spring.
3. Line up the locking tabs on the door, with the holes on the pack. Snap the door in place.
4. Insert the battery pack into the detector. The two terminal points must touch the pointed contacts inside the detector. The decal on the battery faces up, and the writing on the decal is facing up so that the operator can read it as the battery is being inserted into the instrument. This assures proper battery insertion.

SEARCHING

Where to search:

Start with your own yard. Valuables can be found anywhere people have congregated, gathered, lived, sat, walked, played, camped, picnicked, traveled, or fought. The following list of locations have produced a great deal of coins, rings, relics, and treasure in the past:

AMUSEMENT PARKS	SWIMMING HOLES	BOARDWALKS AREAS
CIRCUS GROUNDS	BRIDGES	TRAILS
RACE TRACKS	PARKING STRIPS	PARKS
OLD BUILDINGS	POINTS INTEREST	SCHOOLS
FORTS	STORM CELLARS	TRADING POSTS
CARNIVALS	BEACHES	HITCHING POSTS
FAIRGROUNDS	RIVER CROSSINGS	CLOTHS LINES
RODEO GROUNDS	SIDEWALKS	PAST DISASTER AREAS
PLAYGROUNDS	CABINS	AROUND OLD TREES
GHOST TOWNS	CLUB HOUSES	HOMESTEADS
STAGE STOPS	BASEMENTS	SPORTS FIELDS

How to search:

You must have permission to search private property from the owner or person in charge of managing the property. In most cases, you can locate the owner through City Hall or the County Seat. If the area is City property, contact the Parks and Recreation Department for a permit and any restrictions. If it is state or federal park, contact the superintendent or the grounds keeper. In most cases permission to search is not a problem, given a few restrictions.

DIGGING:

Practice pinpointing and digging in your own yard before searching well manicured lawns. Try pinpointing a coin on top of the ground, then bury it and practice pinpointing.

Always fill in the holes you dig. Cut a small horseshoe shape, which can easily be hinged back in place, once the target is recovered. Many digging tools and methods are available which vary with the area. Contact your dealer.

Always remove all items you uncover, never leave a mess. Holes are both unsightly and dangerous.

We strongly urge you to follow these steps, which will preserve the environment and also the rights of detector operators with as few restrictions as possible.

RESPECT:

Respect the rights of property owners, as well as laws, ordinances, or regulations about searching publicly owned sites. Public officials and private property owners will more likely allow continued searching if you do no environmental damage. Consider the scar you may leave before you start digging. This will vary a lot from one part of the country to another. Always keep in mind that other detector operators may be judged by your example.

PROPER CARE OF YOUR DETECTOR

CLEANING:

The loop is water proof and should be cleaned with fresh water and a mild cleanser. After cleaning, dry the instrument thoroughly. CAUTION: The instrument case is not water proof, and water if allowed to enter it will damage the electrical components.

WEATHER CONDITIONS:

Protect your instrument from both extreme heat and extreme sub-zero freezing. If left in a car on a hot day cover it to protect it from the direct sun, and leave the windows slightly open to permit ventilation. If storing the instrument for the winter months, store indoors in a warm dry closet. Do not store in an area that experiences out door winter temperatures. Take steps to protect your instrument from heavy rain, as water if allowed to get inside the control box will result in damage.

SALTWATER:

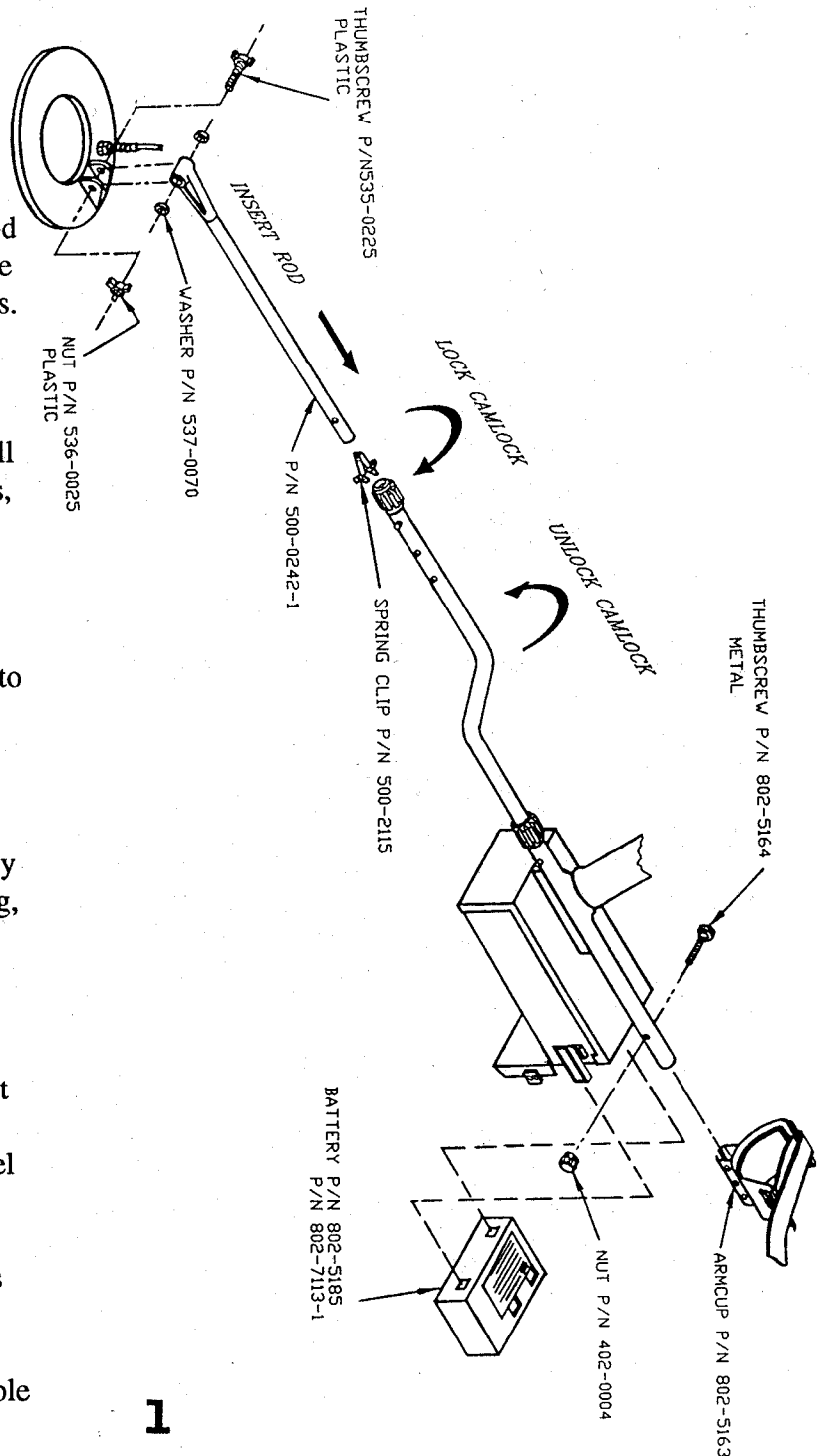
Salt water is very corrosive! Immediately after your instrument has been exposed to salt air dry it off with a cloth, and store it in a warm area.

ADDITIONAL PRECAUTIONS:

- Avoid dropping your detector.
- Do not use lubricants on any part of your detector.
- Avoid sharp jars to the loop.
- Do not allow batteries to corrode inside the detector, remove during storage.
- Do not alter or modify your instrument during the warranty period. Alterations will void the warranty.

PARTS IDENTIFICATION AND ASSEMBLY

1. Remove all parts from the shipping carton.
2. Place loop washers on clevis/lower rod, one on each side, and slide clevis onto loop ears. Use fiber bolt and thumbnut to secure.
3. Insert clevis/lower rod into curved "S" rod so that stainless steel spring clip buttons line up and lock into one of the adjustment holes. Turn cam lock to secure.
4. Remove cable twist from the loop and wind loop cable around the rods, first revolution over the top of the rod. Wind cable all the way to the top, use black cable retainers, one near the loop and one near the curved "S" rod to hold the cable in place.
5. Insert the "S" rod assembly into the rod on top the control box so that the stainless steel spring clip buttons line up and lock into the adjustment holes. Turn camlock to secure.
6. Grip the instrument by the handle, with your arm in the elbow cup, and sweep the loop over the floor. Adjust the elbow cup by removing the nut and bolt and repositioning, so as to fit your arm length.
7. Apply optional arm cup foam pad to inside of arm cup.
8. Adjust arm cup strap so that it is loose enough for you to slide your arm in and out when you set the detector down to dig.
9. Install battery pack, decal facing up, steel contacts toward the loop.
10. It should be noted at this point, the detector may not work as expected indoors due to the high degree of metals used in modern construction. It is best to tune and use out-of-doors to ensure stable, predictable results.



White's Electronics, Inc. LIMITED WARRANTY

If within two years, (24 months), from the original date of purchase, your White's detector fails due to defects in either material or workmanship, White's Electronics will repair or replace at its option, necessary parts without charge for parts or labor.

Simply return the complete detector to the dealer where you purchased it, or to your nearest authorized service center. The unit must be accompanied by a detailed explanation of the symptoms of the failure. You must provide proof of date of purchase before the unit is serviced.

Items excluded from this warranty are non-rechargeable batteries, and other accessories.

This warranty is not transferable. Nor is it registered unless the warranty registration card is returned to the factory address below within (10) days of the original purchase date.

This warranty does not cover damage caused by accident, misuse, neglect, alterations, modifications, unauthorized service, or prolonged exposure to corrosive compounds, including saltwater.

Duration of any implied warranty (e.g. merchantability and fitness for a particular purpose) shall not be longer than the stated warranty. Neither the manufacture or the retailer shall be liable for any incidental or consequential damages. Some states, however do not allow limitations on the length of implied warranties or the exclusion of incidental or consequential damages. Therefore, the above limitations and exclusions may not apply to you.

In addition, the stated warranty gives you specific legal rights, you may also have other rights which vary from state to state.

The foregoing is the only warranty provided by White's as the manufacture of your metal detector. Any "extended warranty" period beyond two years, which may be provided by a dealer or other third party, on your metal detector, is without White's authority involvement and consent, and will not be honored by White's.

**White's Electronics Inc.
1011 Pleasant Valley Road
Sweet Home OR. 97386
Telephone ———(503) - 367 - 6121
FAX —————(503) - 367 - 2968
DISTRIBUTION—(800) - 547 - 6911**

**TREASURE HUNTER'S
CODE OF ETHICS**

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

**White's Electronics, Inc.
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Sweet Home, OR 97386**

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