



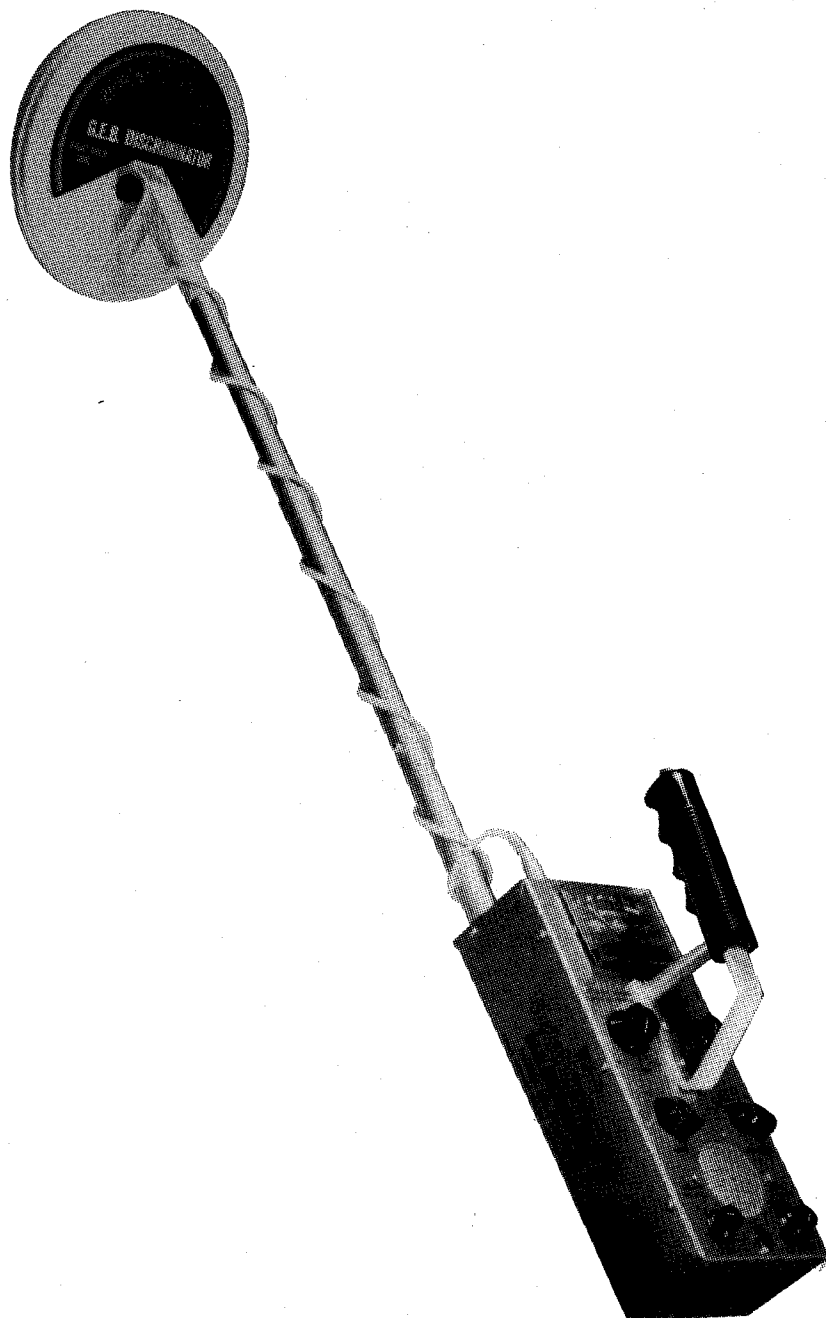
**MODEL NO.**  
**321.596320**

- assembly
- control description
- testing procedures
- operating procedures
- maintenance

**OWNER'S MANUAL**

# **METAL DETECTOR**

**PUSH BUTTON G.E.B. AND  
G.E.B./DISCRIMINATOR**



**Patents , No. 4030026 and 4128803**

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# UNPACKING YOUR MODEL #59632

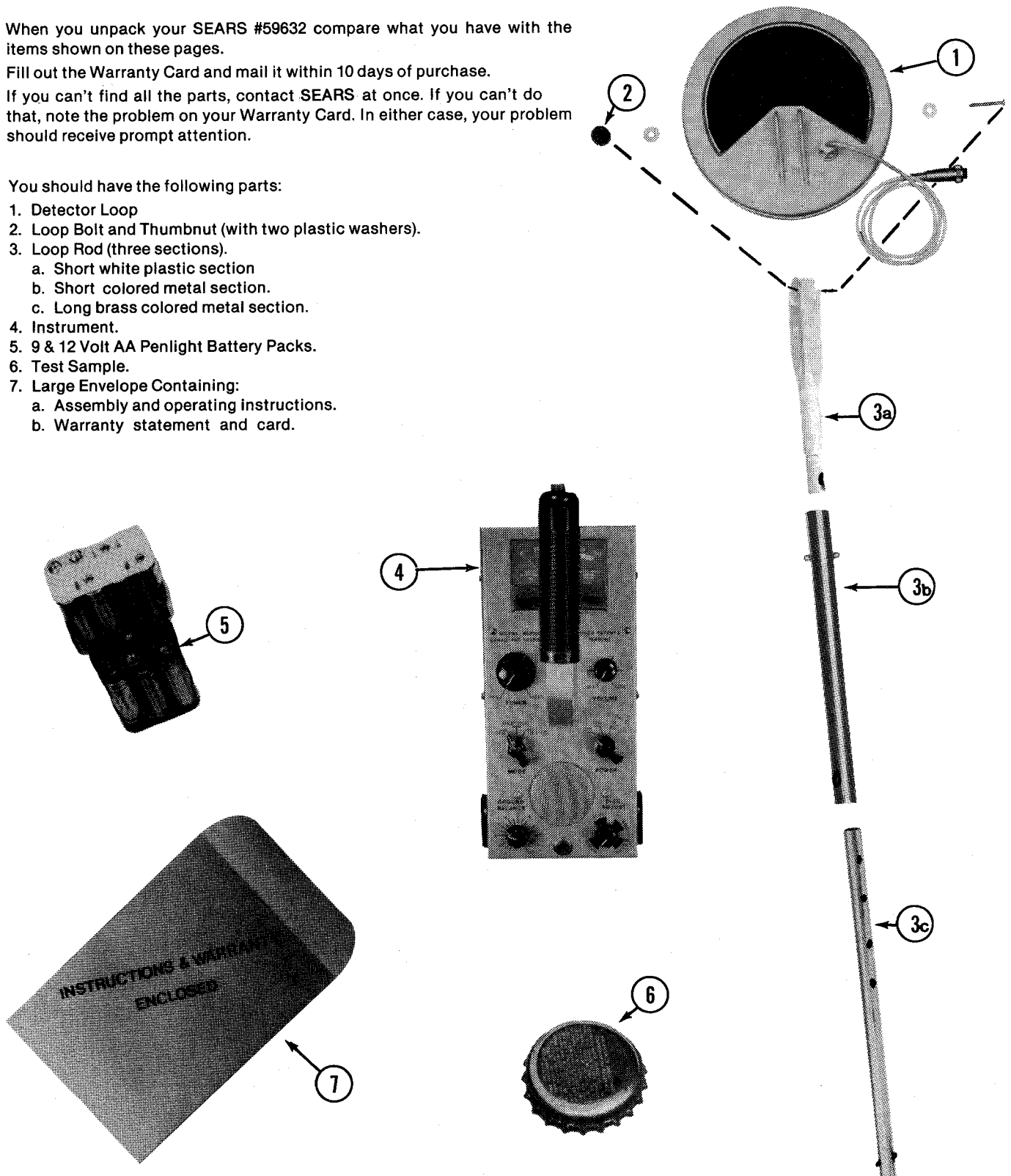
When you unpack your SEARS #59632 compare what you have with the items shown on these pages.

Fill out the Warranty Card and mail it within 10 days of purchase.

If you can't find all the parts, contact SEARS at once. If you can't do that, note the problem on your Warranty Card. In either case, your problem should receive prompt attention.

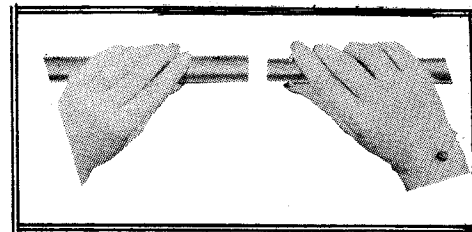
You should have the following parts:

1. Detector Loop
2. Loop Bolt and Thumbnut (with two plastic washers).
3. Loop Rod (three sections).
  - a. Short white plastic section.
  - b. Short colored metal section.
  - c. Long brass colored metal section.
4. Instrument.
5. 9 & 12 Volt AA Penlight Battery Packs.
6. Test Sample.
7. Large Envelope Containing:
  - a. Assembly and operating instructions.
  - b. Warranty statement and card.



# Assembly Instructions

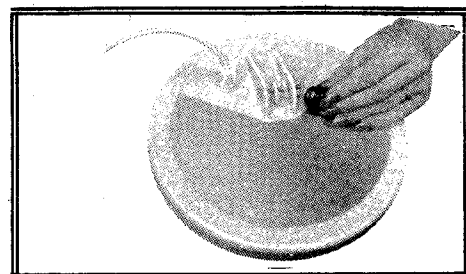
1. ASSEMBLE the TWO ROD SECTIONS.  
ILLUSTRATION A



ILL. A

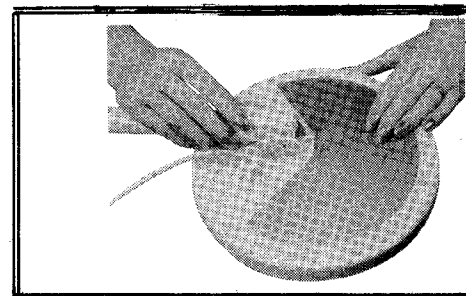
2. REMOVE the TWO PLASTIC WASHERS from the LOOP. ILLUSTRATION B

**CAUTION: NEVER TIGHTEN THE  
WATERPROOF CABLE  
FITTING ON THE LOOP!**



ILL. B

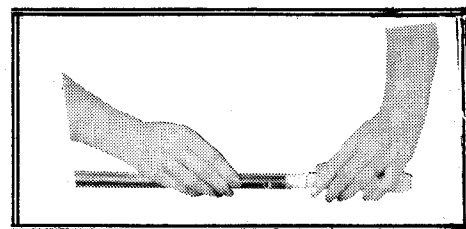
3. PLACE the TWO WASHERS in the depressions ON the PLASTIC ROD and CONNECT to the LOOP. ILLUSTRATION C



ILL. C

4. REINSTALL BOLT and THUMBNUIT.

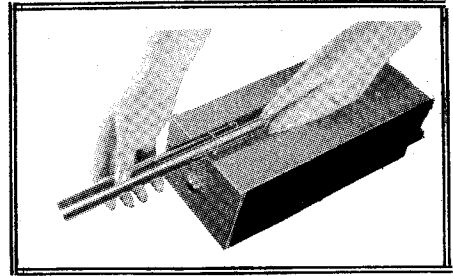
5. CONNECT the PLASTIC ROD to the SMALL METAL ROD SECTION.  
ILLUSTRATION D



ILL. D

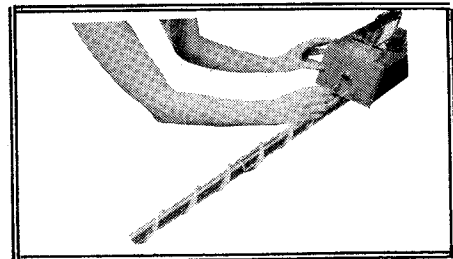
## ASSEMBLY CONT.

6. CONNECT COMPLETE ROD to INSTRUMENT . ILLUSTRATION E



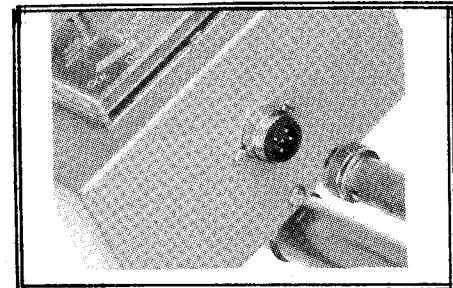
ILL. E

7. WRAP the CABLE around the ROD . ILLUSTRATION F



ILL. F

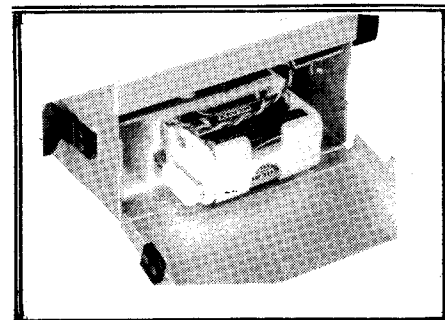
8. CONNECT the LOOP CABLE to the top of the INSTRUMENT (small slot up). ILLUSTRATION G



ILL. G

9. CONNECT BLACK BATTERY connector to BLACK PACK  
CONNECT WHITE BATTERY connector to WHITE PACK .

ILLUSTRATION H



ILL. H

# PROPER CARE OF YOUR DETECTOR

The following are precautions you should take to protect your instrument from harm, ensure its long life and avoid nullifying the warranty.

**Cleaning:** The loop and rod or probe are waterproof. They can be cleaned with fresh water and a mild cleanser. After cleaning, however, dry the instrument thoroughly. Caution! The instrument case is not waterproof, and water - if allowed to enter it - will damage electronic components.

**Weather Conditions:** Protect your detector from excessively cold weather. Freezing can damage the electronic components, the case and/or the batteries. Excessive heat can also damage the instrument. Never leave it in the sun. If it's left in a car on a hot day, cover it with a blanket or something similar to protect it from the direct rays of the sun, and then leave the windows slightly open to permit ventilation. Protect your detector if you operate it in the rain, as water may get into the instrument case.

**Salt Water:** Salt water is very corrosive! Immediately after your detector has been exposed to salt water, rinse it thoroughly with fresh water, being careful not to allow water to enter the instrument case. Then wipe it with a cloth dampened with fresh water and dry it thoroughly.

**Storage:** If you plan to store your detector for any length of time, unsnap the battery and remove it from the instrument. Whenever your detector is not in use, turn the UNIT all the way OFF.

## BATTERIES

BATTERIES ARE THE LIFEblood OF YOUR INSTRUMENT. FULL VOLTAGE IS NECESSARY TO ASSURE BEST POSSIBLE PERFORMANCE. Your WHITE battery pack holds eight 1½ volt AA Penlight batteries. Your Black battery pack holds six 1½ volt AA Penlight batteries. These are available at drug and grocery stores almost everywhere. Any brand will work well, although many "Shooters" recommend the alkaline type for longer battery life.

To change batteries, first remove the battery pack from the instrument. Before you remove any batteries, examine the pack. Note the exact position of each battery and the position of the battery lead snaps. Your detector will not work unless the batteries are properly installed and the battery lead is properly connected.

Each battery has a positive (+) end and a negative (-) end, which is clearly marked with a + and - sign. The battery pack slots are also marked with a + and - sign. To replace the batteries, simply match the + and - sign on the battery to the + and - sign on the battery slot and snap the battery into place.

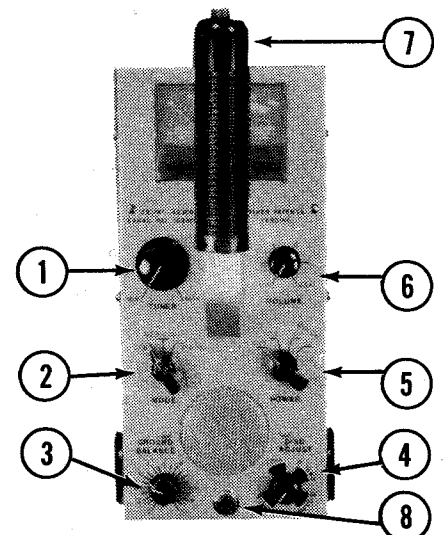
The battery lead snaps must also be matched to the connectors on the battery packs. Snap the lead to the battery packs, then slide them into the battery compartment in the instrument. (Refer to illustration H.).

## FAMILIARIZING YOURSELF WITH YOUR DETECTOR

There are eight controls on the SEARS #59632 (Refer to Illustration I)

1. TUNER
2. MODE SWITCH
3. GROUND BALANCE
4. DISCRIMINATE ADJUST
5. POWER/BATTERY CHECK
6. VOLUME
7. PUSH-BUTTON
8. EARPHONE JACK

ILLUSTRATION I



1. TUNER - This control sets the tuning threshold. NOTE: The threshold is when the meter reads between 1 & 20 and a slight tone is heard from the speaker.
2. MODE - There are three separate modes of operation which is like having three detectors in one.
  - a. G.E.B. NORMAL - Detects all metals at normal G.E.B. (Ground Exclusion Balance) or VLF (Very Low Frequency) depths.
  - b. G.E.B. DISCRIMINATE - Discriminates against unwanted items at normal G.E.B. or VLF depths regardless of soil conditions. A true G.E.B. DISCRIMINATOR rejects the ground while discriminating. In this mode the loop must be moving in order to detect a target.
  - c. TR DISCRIMINATE - Discriminates against unwanted items. This mode is used in areas that are lightly mineralized, where the loop could not be kept moving, and in salt water (the effect salt water has can be adjusted out in this mode by setting the Discriminator control to NAILS setting).

## FAMILIARIZING CONT.

3. **GROUND BALANCE** - This control works in the G.E.B. MODE. When in the G.E.B. MODE, you can adjust out the effect of the ferric oxide (mineralization) content of the ground.
4. **DISCRIMINATE ADJUST** - This control sets the amount of discrimination needed to avoid detecting unwanted items. **IMPORTANT:** The depth range of the unit in the Discriminate Modes is affected by the Discriminate Adjust setting. Some depth will be lost in the Pull Tab setting, even more depth will be lost in the Screw Cap setting. As on any Discriminator we know of, in the High Discriminate setting (Pull Tab and Screw Cap) nickels, some rings and small gold coins might not be detected.
5. **POWER AND BATTERY CHECK** - This control turns the detector OFF and ON and has a 9 Volt setting to test the 9 Volt battery pack, and a 12 Volt setting to test the 12 Volt battery pack.
6. **VOLUME CONTROL** - This control adjusts the loudness of the speaker tone.
7. **PUSH-BUTTON** - This control can be thought of as a "MEMORY" control for the tuner. As long as you push in the button when you set the tuner, the memory circuit will remember the initial setting the next time you push and release the button. If the tuning changes for any reason (other than actually moving the TUNER KNOB), such as changing the DISCRIMINATE or GROUND BALANCE control (and you did not hold in the button as you changed one of these controls), all you do to retune is press and release the button. You do not have to hold in the button in the G.E.B. DISCRIMINATE MODE for tuning or when adjusting the discriminate controls.

**NOTE:** 1. The PUSH-BUTTON TUNING DOES NOT WORK IN G.E.B. DISCRIMINATE.

2. If you are in G.E.B. DISC., holding in the button changes the detector to G.E.B. NORMAL. If you are in any other mode, holding in the button changes the detector to G.E.B. DISC. MODE.

8. **EARPHONE JACK** - This feature allows you to connect a Headset. (Using a Headset, your batteries will last longer and you will be able to hear the tone change easier when the unit has located a target).

## TESTING INDOORS

Place your detector on a table, with the loop extending into the air away from any metal. (Refer to Illustration J. Note that there isn't any metal on her hands that might interfere with tuning.)

To TUNE, set the controls as follows:

1. TUNER to..... MIN.
2. MODE to ..... G.E.B.
3. GROUND BALANCE to..... 5
4. DISC. ADJUST to ..... NAILS
5. POWER/BATTERY CHECK to..... 9  
NOTE: If meter reads above "75", proceed to next step. If meter reads below "75", turn to the section on BATTERIES. (Page 5. ).
6. POWER/BATTERY CHECK to..... 12  
NOTE: If meter reads below "75", turn to the section on BATTERIES. (Page 5. ).
7. POWER/BATTERY CHECK to..... ON
8. VOLUME to ..... MAX.
9. PRESS and hold in the button and turn the TUNER RIGHT (clockwise) to the "THRESHOLD". (Meter hand reads between 1-20 and a slight tone is heard.)
10. RELEASE the button.
11. HOLD a coin in front of the loop face as in Illustration J. Move the coin and notice how the tone changes. The tone should get louder as the coin is brought close to the loop.
12. Now hold a NAIL in front of the face of the loop. Move the NAIL and notice how it reacts just like the coin. In G.E.B., all metals are detected.

To test your G.E.B. DISC. MODE indoors, first tune in G.E.B. MODE (See above tuning instructions.) Put the MODE Switch to G.E.B. DISC. setting. You are now ready to start testing. First hold a coin in front of the loop face as shown in Illustration J. You will notice that if the coin is held still, the detector does not sound off, but if you move the coin across the face of the loop, the detector will sound off. DO NOT get closer than 1 inch from the loop.

## ILLUSTRATION J



**NOTE:** In this mode, the loop (or the target) must be moving.

Test the unit using several targets, for example: A quarter, nickel, nail and a pull tab. Test each target with the DISC. ADJUST CONTROL at different levels. Notice the changes in the signal as the DISC. ADJUST CONTROL is set at a higher level.

Since you have already tuned the unit in G.E.B. MODE, to test the TR DISC. MODE indoors, all that is required is to switch the MODE switch to TR DISC. and push and release the button to regain the THRESHOLD setting. Since the main purpose of the TR DISC. MODE is to reject the bottle cap, we suggest using a bottle cap for testing along with the other targets used in testing the G.E.B. and G.E.B. DISC. MODE. First hold a coin in front of the loop, move the coin and notice how the tone changes. The tone should get louder as the coin is brought closer to the loop. Next, hold a bottle cap in front of the loop face, move the bottle cap and notice the tone changes. The tone should get quiet as the bottle cap is brought closer to the loop. Do not get closer than 1 inch or you will get a false reading.

# SIMPLIFIED OUTDOOR TUNING

SET CONTROLS AS FOLLOWS:

1. TUNER ..... MIN.
2. MODE ..... G.E.B.
3. GROUND BALANCE ..... 5
4. VOLUME ..... MAX.
5. POWER ..... ON
6. DISCRIMINATE ADJUST ..... NAILS

Holding the loop approximately 3 feet off the ground, push and hold in the button on the handle, while turning the tuner control clockwise, until a slight tone is heard and the meter hand reads between 1-20.

Release button and lower loop to the ground. IF THE TONE INCREASES, ALWAYS TURN THE GROUND BALANCE CONTROL TO A LOWER NUMBER. IF THE TONE DECREASES, ALWAYS TURN THE GROUND BALANCE CONTROL TO A HIGHER NUMBER.

Raise the loop off the ground, push and release button (to regain tuner setting) and lower the loop to the ground. Listen to the reaction.

If there is very little change between the air tone and the ground tone, then your unit is properly tuned. However, if there is a noticeable change in the tone, then make the necessary adjustments with your ground balance control.

## TUNING OUTDOORS

The main idea is to adjust out the effect of the ground, so raising and lowering the loop while searching will not effect the tone.

**IMPORTANT:** The G.E.B. MODE DETECTS ALL METALS.

To TUNE, set the controls as follows:

1. TUNER to ..... MIN.
2. MODE to ..... G.E.B
3. GROUND BALANCE to ..... 0
4. DISC. ADJUST to ..... NAILS
5. POWER/BATTERY CHECK to ..... 9  
NOTE: If meter reads above "75" proceed to step 6.  
If the meter reads below "75" turn to section on BATTERIES. (Page 5. ).
6. POWER/BATTERY CHECK to ..... 12  
NOTE: If meter reads above "75" proceed to step 7.  
If the meter reads below "75" turn to section on BATTERIES. (Page 5. ).
7. POWER/BATTERY CHECK to ..... ON
8. VOLUME to ..... MAX.
9. PRESS and hold in the button and turn the TUNER TO THE RIGHT (clockwise) to the THRESHOLD (meter hand reads between 1-20 and a slight tone is heard). See Illustration K.
10. Release the button.
11. Lower the loop towards the ground as shown in Illustration L.
12. Since the GROUND BALANCE control is set at 0, the tone should get quieter as you lower the loop towards the ground. (Illustration L).
13. INCREASE the GROUND BALANCE control to 5.
14. RAISE the loop off the ground approximately three (3) feet.
15. PUSH and RELEASE the button.
16. LOWER the loop to the ground.
17. IF THE TONE GETS LOUDER, DECREASE THE GROUND BALANCE CONTROL. IF THE TONE GOES QUIET, INCREASE THE GROUND BALANCE CONTROL.

(If you have difficulty adjusting the GROUND BALANCE control, you may be over some metal - move to another spot).

When a balance between the air tone and ground tone is achieved, you are ready to start search procedure.

ILLUSTRATION

K



ILLUSTRATION

L



ILLUSTRATION

M

# G.E.B. DISCRIMINATOR OPERATING PROCEDURES

Since you tuned your UNIT in G.E.B. MODE, it is not necessary to retune it in G.E.B. DISC. The only steps necessary are:

1. Raise the loop off the ground.
2. DISC. ADJUST to nails.
3. CHANGE THE MODE SWITCH to G.E.B. DISC.

G.E.B. DISC. setting can also be achieved by leaving the MODE SWITCH in G.E.B., push and hold the button in. The unit is now in G.E.B. DISC. MODE. We recommend operating the unit in G.E.B. NORMAL MODE until a target has been located, then verifying the target using this method.

The G.E.B. DISCRIMINATE MODE discriminates against selected trash at normal G.E.B. (VLF) depths regardless of soil conditions. It is a true G.E.B. DISCRIMINATOR in that it rejects the ground while discriminating. In this mode, the loop **MUST BE IN MOTION** in order for the unit to give the correct signal. The faster the swing, the clearer the signal change will be.

Refer to Illustration M on page 7.

# TR DISCRIMINATOR OPERATING PROCEDURES

In TR DISCRIMINATE MODE you will NOT be able to adjust out the effects of the ground. This mode will require more practice and patience to master, but the rewards can be fantastic, especially in non-mineralized areas.

To operate in TR DISCRIMINATE MODE:

1. Lower loop to approximately  $\frac{1}{2}$ " to  $1\frac{1}{2}$ " off the ground.
2. MODE SWITCH on TR DISCRIMINATE.
3. Push and release the button to regain THRESHOLD setting.
4. Lower loop COMPLETELY to the ground.

Sweep the loop as shown in Illustration M. You will notice that if the loop is tilted or if you lift the loop up, the tone will get louder. **THIS IS VERY IMPORTANT TO UNDERSTAND.** To help eliminate false signals caused by lifting or tilting, try to keep the loop parallel to the ground while you sweep.

**IMPORTANT NOTICE:** The more the tone changes from the slightest up or down movement of the loop, the more mineralized the soil. To test for this condition, raise the loop about  $\frac{1}{2}$  inch. The sooner the tone changes, the more the mineralization.

# COINSHOOTING

1. If you want to locate all coins, both shallow and deep, use the G.E.B. NORMAL MODE to search and pinpoint the object.
2. Sweep very slowly as shown in Illustration N.
3. The signal will be the loudest when the target is under the center of the loop.
4. Try to keep the detector loop parallel to the ground at all times to avoid lifting the loop off the ground at the end of each sweep.
5. Keeping the detector loop parallel to the ground prevents the loss of detection of some deeper targets. On a careless swing, you are putting more distance between the loop and target by lifting it off the ground.
6. After locating the object, push and hold the button to change to the G.E.B. DISCRIMINATE MODE to identify the object.
7. Cross the target with a broad rapid sweep, first in one direction, then the other as in Illustration O.

**NOTE:** In G.E.B. DISCRIMINATE MODE the loop has to be moving in order for the unit to work properly. To get the best possible signal, keep the loop moving in a wide enough sweep to study the signal by its sound.

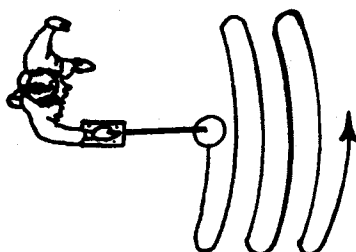


ILLUSTRATION N

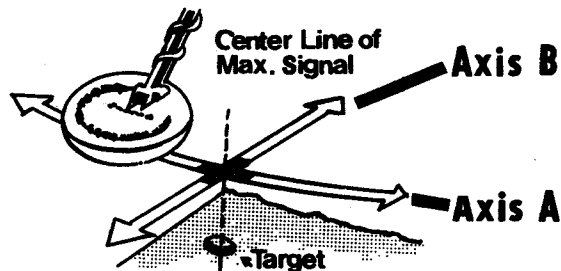


ILLUSTRATION O

## COINSHOOTING CONT.

8. You can tell some "junk" objects by their erratic signal or the extra large area producing the signal.
9. If you detect an object which produces a signal over a much larger area than a coin, ring or other valuable, it may be several coins close together in a group (Illustration P.)
10. Sweep at different angles to locate each separate object, screen out unwanted objects or pinpoint a single object. (Illustration Q.)
11. If an object produces a very strong signal for its size, turn the DISCRIMINATE ADJUST first to SCREW CAPS to see if the object is a COIN or SCREW CAP.
12. To tell a coin from a bottle cap, with the DISCRIMINATE ADJUST at SCREW CAPS, increase sweep speed. This will make the signal from a good object better and cause a "bottle cap" signal to drop out. This is one of two methods to identify and reject BOTTLE CAPS.

The other way to identify and reject BOTTLE CAPS is to place the detector in the TR DISCRIMINATE MODE and the DISC. ADJUST control to "FOIL". Then, slowly check the target again. A BOTTLE CAP is almost always a strong signal and can usually be rejected in this mode.

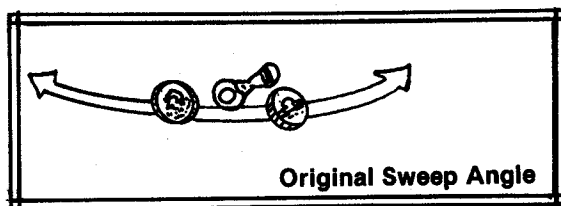


ILLUSTRATION P

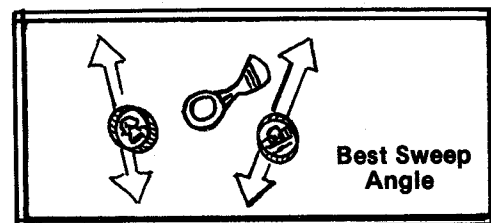


ILLUSTRATION Q

## TIPS

1. "What will the detector locate?" Silver, lead, copper, bottle caps, tinfoil, pull tabs, cartridge cases, rings, brass and tin cans are just a few of the conductive objects which can be detected. Your detector will not locate sticks, rags, bones, paper, wood, or other non-metallic objects.
2. "How deep will it go?" In the G.E.B. MODE of operation, depth is determined by four main factors:
  - a. The SIZE of the object.
  - b. The SIZE of the loop.
  - c. The SKILL of the operator.
  - d. The LENGTH OF TIME the object has been buried.
  - e. The AMOUNT OF MINERALIZATION (Mainly in TR DISCRIMINATE MODE).

The longer an object has been buried, the better you will be able to detect it. A chemical reaction, called a "HALO" effect, may cause your detector to register a much larger increase in volume than might otherwise be expected for a small coin. If the effect is strong enough, your detector may continue to signal even after you have dug up the coin.

3. Learn how to understand different types of signals from your detector such as the following:
  - a. BOTTLE CAPS produce a coin-like sound, but there are two ways to identify and reject BOTTLE CAPS. One way is to place the detector in the G.E.B. DISCRIMINATE MODE, and the DISCRIMINATE ADJUST to SCREW CAPS. Then sweep with a fast sweep speed. This is necessary to reject a BOTTLE CAP in the SCREW CAP position as shown in Illustration R.

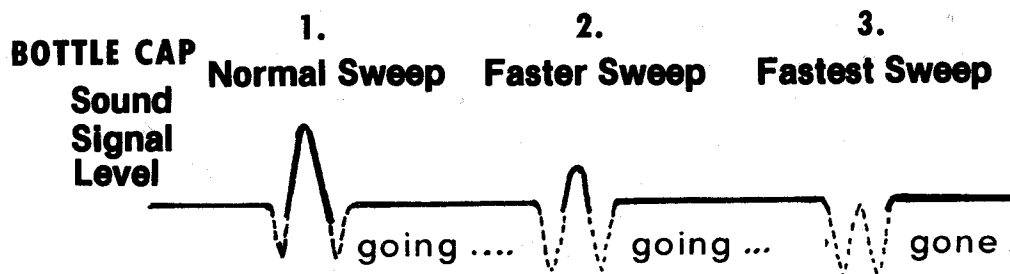


ILLUSTRATION R

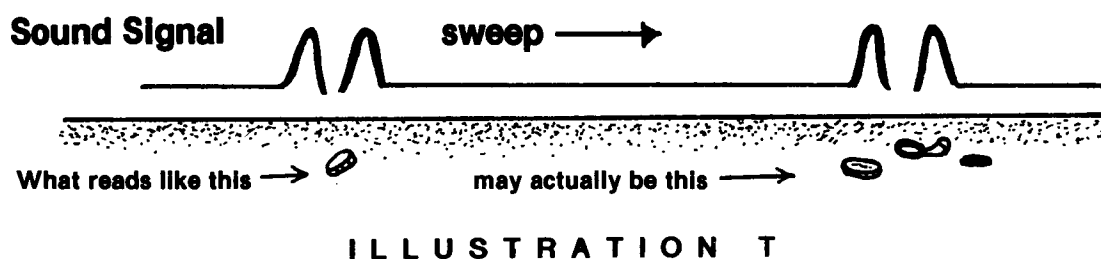
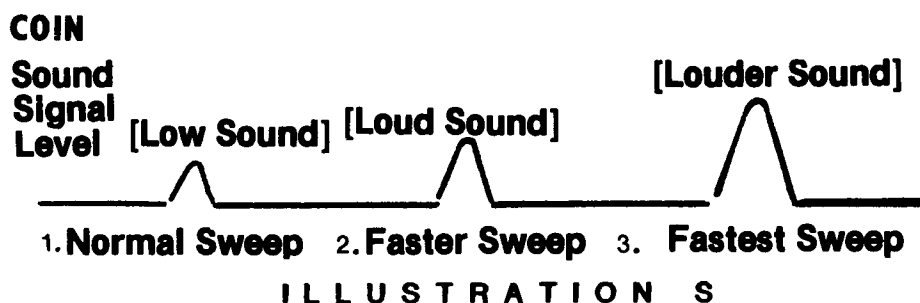
## TIPS CONT.

If the object is a coin or other valuable metallic object, the sound signal level will increase with a fast sweep speed rather than drop out as shown in Illustration S.

The other way to identify and reject BOTTLE CAPS is to place the detector in the TR DISCRIMINATE MODE and the DISCRIMINATE ADJUST control to "FOIL". Then slowly check the target again. A BOTTLE CAP is almost always a strong signal and can usually be easily identified in this mode.

With this fantastic detector, you will get very deep objects in the G.E.B. DISCRIMINATE MODE regardless of the soil conditions, but occasionally you might dig up a BOTTLE CAP by mistake, so learn to identify them!

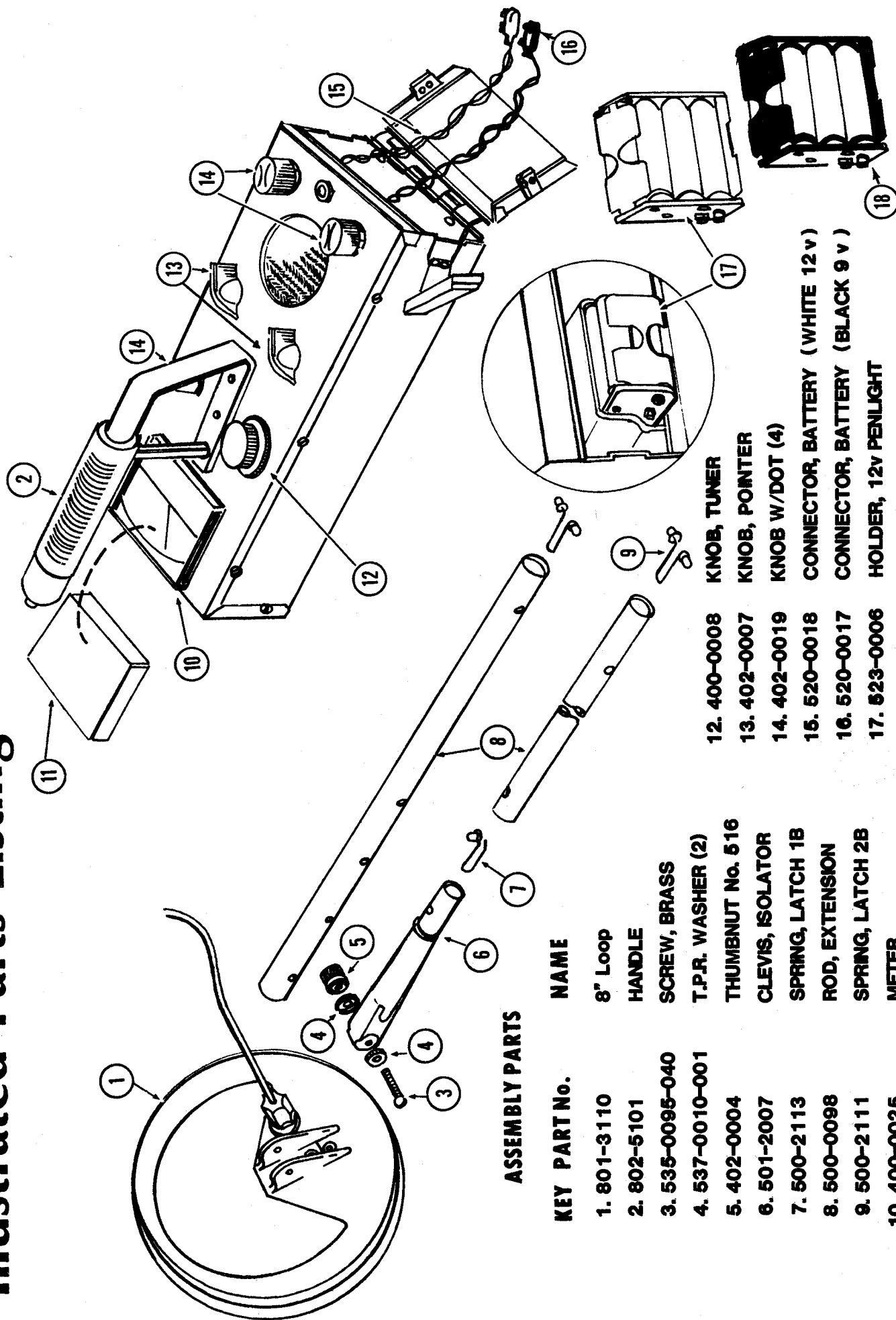
- b. SWEEP ANGLES are more important in locating and pinpointing a combination of objects. For example, with the detector set at G.E.B. DISCRIMINATE MODE and PULL TAB DISCRIMINATE LEVEL you will often get an audio or sound signal as in Illustration T.



If you are tempted to pass on and forget such a signal, don't. Instead, do one of the following:

1. Switch to the G.E.B. NORMAL for pinpointing.
2. Sweep the detector loop across the target area in both directions. You may be able to isolate the signal from more than one object.
3. If it appears that there is more than one object present, try sweeping the detector loop at different angles with the detector in G.E.B. DISCRIMINATE MODE for the most reliable reading. See Illustrations P and Q.
- c. "TOO BIG" TARGET signals are produced by objects possessing a large surface area and may consist of an alloy or plating which causes the detector to respond to the non-ferrous or non-iron portion of the object. Such objects include beer cans, pop cans, and alarm clocks. Characteristics of such signals include:
  1. The size of the signal both in ground area and strength.
  2. The distance you can raise the swinging detector loop above the ground before it fades. You may detect pennies buried about 5 or 6 inches below the surface of the ground and yet hit a strong signal with the detector loop raised 10 inches above the ground. Such a signal will not be produced by pennies, quarters, or dollars unless possibly there is a quantity buried in one place such as in a gallon can. To check out such a signal, see how far you can raise the swinging detector loop above the ground before it fades, and test it in the TR DISC. MODE.
- d. DEPTH ESTIMATING can be accomplished as follows:
  1. Locate an object with a detector signal.
  2. Raise the detector loop as you swing it until the signal fades.
  3. Note the maximum distance of the loop above the ground.
  4. Subtract the depth that a coin or similar object is usually detected from the distance above the ground and you will have an idea of how deep you must dig to uncover the object.
- e. PUSH-BUTTON retuning may be necessary due to changing ground conditions when searching in the G.E.B. MODE or TR DISCRIMINATE MODE. To retune, just press the button and release.
- f. PINPOINTING a target or object can be done by sweeping a target in one direction and then the other as shown in Illustration O. This is called "X-ing" the target. It is also helpful to sweep the target at several different angles as you move around it. Coins will usually produce one reading regardless of sweep direction.

# Illustrated Parts Listing



## ASSEMBLY PARTS

| KEY PART No.    | NAME              |
|-----------------|-------------------|
| 1. 801-3110     | 8" Loop           |
| 2. 802-5101     | HANDLE            |
| 3. 535-0095-040 | SCREW, BRASS      |
| 4. 537-0010-001 | T.P.R. WASHER (2) |
| 5. 402-0004     | THUMBNUIT No. 516 |
| 6. 501-2007     | CLEVIS, ISOLATOR  |
| 7. 500-2113     | SPRING, LATCH 1B  |
| 8. 500-0098     | ROD, EXTENSION    |
| 9. 500-2111     | SPRING, LATCH 2B  |
| 10. 400-0025    | METER             |
| 11. 400-0027    | COVER, METER      |

|              |                                |
|--------------|--------------------------------|
| 12. 400-0008 | KNOB, TUNER                    |
| 13. 402-0007 | KNOB, POINTER                  |
| 14. 402-0019 | KNOB W/DOT (4)                 |
| 15. 520-0018 | CONNECTOR, BATTERY (WHITE 12v) |
| 16. 520-0017 | CONNECTOR, BATTERY (BLACK 9v)  |
| 17. 523-0006 | HOLDER, 12v PENLIGHT           |
| 18. 523-0005 | HOLDER, 9v PENLIGHT            |



**SPORTS CENTER**

**MODEL NO.  
321.596320**

- assembly
- control description
- testing procedures
- operating procedures
- maintenance

**OWNER'S MANUAL**

# **METAL DETECTOR**

## **PUSH BUTTON G.E.B. AND G.E.B. /DISCRIMINATOR**

When requesting service or replacement parts for your *Sears Metal Detector*, always refer to the serial number plate for the instrument *Model Number*.

All parts listed herein may be ordered from any SEARS, ROEBUCK AND CO. retail or catalog store.

WHEN ORDERING REPAIR PARTS, ALWAYS GIVE THE FOLLOWING INFORMATION:

1. Part Number
2. Part Description
3. Model Number
4. Name of Item

If the parts are not stocked locally, your order will be electronically transmitted to a Sears Repair Parts Distribution Center for expedited handling.

### **FULL ONE YEAR WARRANTY**

**If, within one year from the date of purchase, this metal detector fails due to a defect in material or workmanship, SIMPLY RETURN IT TO THE NEAREST SEARS STORE IN THE UNITED STATES, and Sears will repair it, free of charge.**

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

**SEARS, ROEBUCK AND CO., SEARS TOWER, BSC 41-3, Chicago, IL 60684**