GC-1026 Metal Detector

OWNER’S MANUAL
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With your metal detector, you can hunt for coins, relics, jewelry, gold, and silver just about anywhere. The detector is versatile and easy to use.

FEATURES

COLOR LCD DISPLAY SCREEN
—with fixed color pattern combined with black/white dynamic pattern, the LCD displays the probable type of metal with arrow in below, the probable depth or the signal strength of metal target, the SENS setting level, DISC/NOTCH range, the detecting mode, and low battery symbol.

TONE AUDIO DISCRIMINATION
—Sounds distinctive tones for different categories of metal to make target identification easier.

TWO DISTINCT DETECTION SYSTEMS
—ALL-METAL (Non-Motion Mode)
When the detector is held still over any type of metal target, a constant medium tone will be heard. Anytime the GND BAL is adjusted, the GND TRAC touchpad must be pressed afterward.
—DISC, NOTCH (Motion Mode)
Lets you detect valuable metal objects while rejecting most junk targets. In NOTCH mode, you can select the target segments by setting DISC Acc/Rej.

8.5 INCH WATERPROOF SEARCH-COIL
—Enable the easy hunting in muddy places or in shallow water.

HEADPHONE JACK
—for private listening

Note:
Your metal detector requires 8-AA size 1.5v alkaline batteries (not supplied).
Assembling your detector is easy and requires no special tools, just follow these steps:

1. Unscrew the knob on the search coil and remove the knob connector. Insert the stem and align the holes on the search coil bracket and the stem. Push the connector through the holes and tighten the knob.

2. Press the spring clips on the upper end of the lower stem and slid the lower stem into the upper stem. Adjust the stem to a length that can let you maintain a comfortable upright posture, with your arm relaxed at your side and the search coil level to the ground 1/2 inches above.

3. Wind the coil cable around the stem, leave enough slack in the cable. Insert the coil plug into the matching connector on the control housing. Be sure the holes and pins line up correctly.

**Caution:**
- Do not force the plug or you could damage it.
- To disconnect the cable, put out the plug. Do not pull on the cable.

**INSTALLING THE BATTERIES**
1. Carefully remove two battery compartment covers by pressing release clips.
2. Insert 8-- AA size batteries into two compartments as indicated by the polarity symbols (+ and −) marked inside the compartment.
3. Replace two compartment covers by carefully inserting opposite side of clip first. Then press carefully down on clip side until battery covers snaps in place.

Caution:
- Only use fresh batteries of the required size and type. Do not mix the old and fresh batteries, different types of batteries.
- Remove the batteries if you do not plan to use the detector for a week or more.
- Dispose of old batteries promptly and properly. Never bury or burn them.

You can extend battery life by using headphones.

**USING HEADPHONES**

1. Insert the headphones’ 3.5mm plug into the PHONE jack. At this time the internal speaker disconnects.
2. Set the VOL to the desired setting.

**LISTENING SAFELY**

- To protect your hearing, set the volume to the lowest setting before you begin listening, adjust the volume to a comfortable level.
- Do not listen at extremely high volume levels. Extended high volume listening can lead to permanent hearing loss.
- Do not wear headphones while operating your detector near high-traffic areas. Pay attention to traffic safety.
FUNCTIONS AND INDICATIONS

A QUICK LOOK AT THE DETECTOR

DISPLAYS
The LCD displays are located at the top of the control housing. They can indicate coins of different type, gold, silver. When the detector detects an object, an arrow will appear below at the target icon of the probable type of metal being detected. The five ellipses in the middle of LCD will effect when pressing the SET touchpad, by which time two SENS symbols (one on the left side of LCD and the other on the right side) will light too. The ellipses function as the indication of the sensitivity level at this time; if the search coil detects a coin-sized target, the SENS symbol at right side will extinguish when the DEPTH symbol will light, the ellipses indicate the probable depth or the signal strength at this time. The contents (surface, 2, 4, 6, 8) inside the five ellipses are just visual levels for reference.

LOW BATT INDICATOR
If LCD displays “LOW BATT” at the right lower corner, replace the batteries.
Note:
- If the detecting pauses for about 5 seconds, the arrow will disappear.
- If an arrow points to a coin denomination, the detector might be detecting either a coin or another type of metal (such as jewelry, tokens, medals, or even junk metal) of similar size and type to the coin.
- Since the indications are approximations, the detector is only a visual reference to help you decide if an item is worth investigating.

**GOLD RANGE**

**IRON FOIL**—indicates that the target is probably iron or foil. Some oxidized iron might register somewhere within the SILVER range.

**5¢ (NICKEL)**—indicates that the target is probably 5¢ or a nickel. Some small gold rings might register within this range.

**PULL TAB**—indicates that the target is probably a pull tab of an aluminum can. Some small gold rings might register within this range might register within PULL TAB category.

**S-CAPS**—indicates that the target is probably a type of metal like bottle cap with whorl. Some medium sized gold rings might register within this category.

**1¢**—indicates that the target might be a zinc penny or a copper coin. Some large rough gold items might register within 1¢ category.
SILVER RANGE
1¢ 25¢--indicates that the target is probably silver coin, 25¢ or 1¢. Some large aluminum coin might register within 1¢ 25¢ category.

TONES
If the detector is set to the ALL METAL target mode, it sounds a single tone when it detects any type of metal. If you set the detector to the DISC or NORTCH modes, the built in audio identification system sounds a unique audio tone for each of three categories of metal. This makes it easier to identify the metal being detected.

The detector sounds a low tone when it detects foil, nail, bottle cap or nickels. A medium tone for aluminum pull tabs, zinc or copper items. A high tone is for brass or silver items.

Note:
- When you set the detector to DISC or NOTCH mode, the detector sounds a medium or high tone when it detects highly oxidized iron. An arrow appears in medium or high tone area.
- Depending on the quality, about 15 percent of gold rings cause the detector to sound a medium tone.

TOUCHPADS & CONTROLS

MODE: Allows the operator to switch in 3 operating modes of following settings (DISC-ALL METAL-NOTCH-DISC-) for personal preferences.

SET: Press and hold the SET touchpad to select the SENS display symbol or DISC/NOTCH display symbol in LCD.
ACC/REJ: Function in NOTCH mode only, permits acceptance or rejection of specific targets to establish discrimination notches.

– / +: Used to increase or decrease the sensitivity and the range of discrimination.

GND TRAC: Used to track the buried metal target and to be applied in ALL-METAL mode only. It must be pressed once ALL-METAL mode is selected.

VOL Control: Functions as Power ON/OFF switch and can be used to adjust the sound level.

GND BAL Control: It’s used to offset the effect of mineralization in ALL-METAL mode. Detection should begin with the GND BAL knob set to P region.

OPERATION

1. TURNING ON THE DETECTOR
Rotate VOL away from OFF POWER to the desired position. The unit displays all symbols and Metal Icons on the LCD screen. The detector sounds low, medium, high tones respectively. About 2 seconds late, the detector enters stand-by state, the LCD screen will display DISC, SENS (2 symbols). The level of SENS is on 6.

2. SETTING THE OPERATION MODE
Press MODE touch-pad to switch in 3 operation modes with sequence as (DISC—ALL METAL—NOTCH—DISC), and select one mode.

DISC MODE
Press MODE, enter DISC mode (DISC symbol lights).

Press SET to convert from SENS to DISC/NOTCH, then press and hold “+” to increase the metal icons on LCD (also named the range of discrimination), press and hold “−” to decrease the range of discrimination. The metal icons are
displayed on top of the LCD from left to right (they are Nails and Foil, $0.05 coin, Pull Tab, S-caps, $0.01 coin and $0.25 coin).

**NOTCH MODE**

Press MODE to enter NOTCH mode (NOTCH symbol lights). Press SET to light the DISC/NOTCH symbol. Press “+”, the target indication arrow will start to blink at this time. Press ACC/REJ to accept or reject the certain metal type, the metal icon will light or extinguish to indicate if this type of metal is selected or rejected. Go on pressing “+”, the blinking arrow will move to right side (the next metal icon). By pressing “−”, the blinking arrow will move to the left side (a new metal icon). Repeat above steps to select or notch the items until you reach the desired setting.

- **SENS ADJUSTMENT IN DISC & NOTCH MODE**

Press SET until SENS symbol at the left upper part of the screen lights. Press “+” or “−” to increase or decrease the sensitivity. Be careful to not set SENS too high or it will lead to the wrong readings or false signals. To reach the max detection depth, always set SENS as high as possible.

**ALL METAL MODE**

Used for detecting any type of metal. Press MODE to get ALL METAL mode. LCD displays ALL METAL at the left lower part of the screen. The discrimination adjustment isn’t available in this mode.

Begin with the GND BAL knob set in position of P Region, press the GND TRAC and release to stabilize the unit. It’s recommended the GND TRAC to be pressed 2-3 times every time you enter the ALL METAL mode. The unit is operating in non-motion detecting in ALL METAL mode.

Anytime the GND BAL adjusted, the GND TRAC must be pressed afterwards.

The detector will sound and the ellipse icons will display in the middle of LCD screen when detecting a metal object. The ellipse icons here are just reference levels indicating the estimated depth of the metal object or the signal strength.
• **GROUND BALANCE**

It is used to offset the effects of any minerals present in the soil or to balance the effects of saltwater in ALL METAL mode.

1. Begin with the **GND BAL** adjusted to **P Region** and lift the search-coil about waist high in the air. Press **GND TRAC** several times to let the unit stabilize before starting an effective detection.

2. Lower the search-coil to about one inch above the ground and lift the search-coil again about waist high in the air. If a tone is not emitted, it means the preset position is the proper ground balance for that area. If a tone is being emitted, readjust the **GND BAL**.

3. Lift the search-coil in the air, turn the **GND BAL** counterclockwise slightly. Press **GND TRAC** several times. Then repeat step 2. If the unit still emits tone, repeat the procedure until the unit does not emit tone.

**Note:**

1. Always be careful that there’s no metal on top of or under the ground where you conduct ground balancing.

2. When adjusting GND BAL counterclockwise, be careful to turn it in small increments to ensure that you can achieve the optimum state for operation. If you over-rotate the knob counterclockwise, you can rotate it back clockwise in the same ground balancing procedure until a tone is emitted and then cut it back counterclockwise slightly until the tone is no longer emitted.

3. Anytime the GND BAL control is adjusted, the GND TRAC touchpad must be pressed afterwards.

**TESTING AND USING THE DETECTOR**

To learn how the detector reacts to different metals, you should test it before you use it the first time. You can test the detector indoors and outdoors.

**INDOOR TESTING AND USE**

1. Slide POWER to ON

2. Set the operating mode.
3. Place the detector on a wooden or plastic table, then remove any watches, rings, or metal jewelry you are wearing.
4. Adjust the search coil so the flat part points towards the ceiling.

**Note:**
- Never test the detector on a floor inside a building. Most buildings have metal of some kind in the floor, which might interfere with the objects you’re testing or mask the signal completely.

5. Slowly sweep a sample of the material you want the detector to find (such as a gold ring or a coin) 2-3 inches or more above the face of the search coil. When the detector detects any metal, it sounds a tone and an arrow appears below the target icon. Also LCD displays the depth of the target.

**Note:**
- If you are using a coin, the detector will detect it more easily if you hold it so a flat side is parallel with the flat side of the search coil. A sweep with the side of coin over search coil might cause false indication and unstable display of arrow.

**OUTDOOR TESTING AND USE**
1. Slide POWER to ON. Set the operating mode.
2. Find an area on the ground outside where there is no metal.
3. Place a sample of the material you want the detector to find (such as a gold ring or a coin) on the ground.
4. Hold the search coil level to the ground about 1~2 inches above the surface, slowly move the search coil over the area where you placed the sample, sweeping the search coil in a side-to-side motion.

**Note:**
If you are using valuable metal such as gold to test the detector, mark the area where you place the item, to help you find it later. Do not place it in tall grass or weeds).
SEARCH COIL SWEEPING HINTS

- Never sweep the search coil as if it were a pendulum. Raising the search coil while sweeping or at the end of a sweep will cause false readings.

- Sweep slowly hurrying will cause you to miss targets.
- It’s better you sweep the search coil from side to side in an arc line of 3 feet motion and keep the search coil parallel with the ground.

If the detector detects the item, it sounds a tone, an arrow and the depth appear on the display below the target icon.
If the detector does not detect the item, make sure that the target mode is set correctly for the type of metal you're searching for. Also make sure that you’re moving the search coil correctly.

Note:
- The detector responds with a signal when it detects most valuable metal objects. If a signal does not repeat after you sweep the search coil over the target a few times, the target is probably junk metal.
- False signals can be caused by trashy ground, electrical interference, or large irregular piece of junk metal.
- False signals are usually broken or non-repeatable.
APPLICATION HINTS

PINPOINTING THE TARGET

Accurately pinpointing a target makes digging it up easier. But it takes practice. We suggest you practice finding sample on your own property before you search other locations.

Follow these steps to pinpoint a target.

1. When the detector detects a buried target, continue sweeping the search coil over the target in a narrowing side-to-side motion.
2. Make a visual note of exact spot on the ground where the detector beeps.
3. Stop the search coil directly over this point on the ground. Then move the search coil straight forward away from you and straight back towards you a couple of times.
4. Repeat steps 1~3 at a right angle to the original search line, Make a mark of “X”. The target will be directly below the “X” at the point of the beep response.

FACTORS THAT AFFECT THE DETECTING

It’s difficult to have an accurate detecting result. Sometimes the detecting may be restricted by some factors.

- The angle of the target buried in the soil.
- The depth of the target.
- The level of oxidization of the target.
- The Size of the target.
- Electro-magnetic and electrical interference surrounding the target.
If you detect patiently and correctly and practice more times, you’ll get satisfactory result.

**CARE AND MAINTENANCE**

Your metal detector is an example of superior design and craftsmanship. The following suggestions will help you care for your metal detector so you can enjoy it for years.

![No drops]

Handle the detector gently and carefully. Dropping it can damage circuit boards and cases and can cause the detector to work improperly.

![No temperature]

Use the detector only in normal temperature environments. Temperature extremes can shorten the life of electronic devices, damage the cases of the detector.

![No dust]

Keep the detector away from dust and dirt, which can cause premature wear of parts.

![No harsh chemicals]

Wipe the detector with a damp cloth occasionally to keep it looking new. Do not use harsh chemicals, cleaning solvents, or strong detergents to clean the detector.
Gold Century Warranty

This product is warranted against defects in materials and workmanship for 1 year from date of purchase. The item must be shipped at buyer’s expense to our offices where we will, at our discretion, repair or replace it free of charge. Please include your original purchase receipt. This warranty is not valid for defects caused by accidents, misuse, improper care, alteration or abuse, nor is it valid if any service or repair is performed by non-authorized personnel. Please contact us for a return authorization at 334-567-2300 or by email at service@ace-distributors.net. Please include a letter describing the problem and your return address.

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