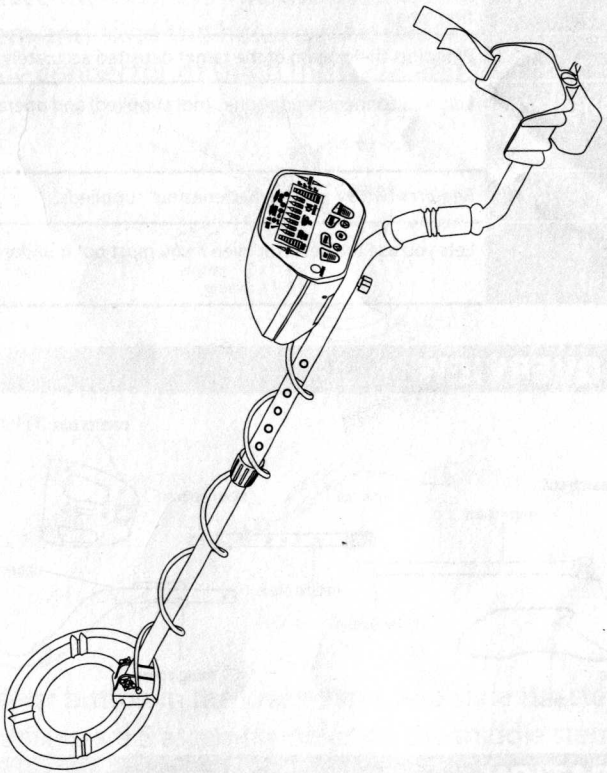
GC-1028 Metal Detector

OWNER'S MANUAL



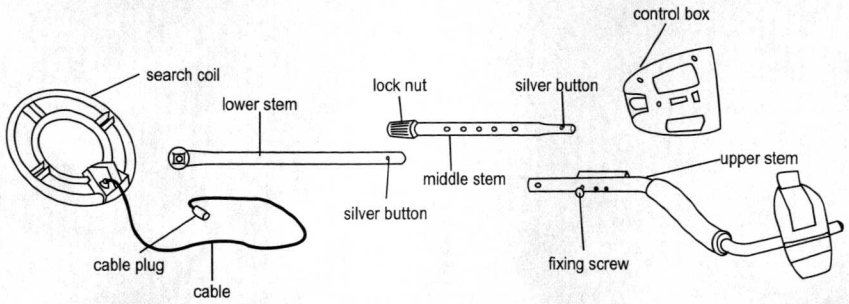
Summit Free Public Library
75 Maple Street
Summit, NJ 07901

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

LCD Display	Indicates the probable type of metal with an arrow, the depth of the target, the DISC range, the level of SENS with segments, the operating mode, and battery power indication.
Three Tone Audio Discrimination	Distinctive audio tones for different types of metal.
DISC	Ignores junk metal and finds valuable items by setting the discrimination range.
P/P	Pinpoints thelocation of the target detected accurately.
Headphone Jack (3.5mm)	Lets you connect headphones (not supplied) and operate hassle-free.
Power	Requires two 9V alkaline batteries(not supplied).
Waterproof Search coil	Lets you use the detector even if you must put it under water.

PARTS OVERVIEW

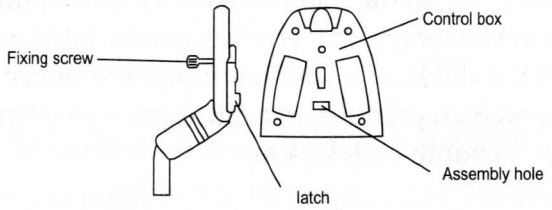


PREPARATION

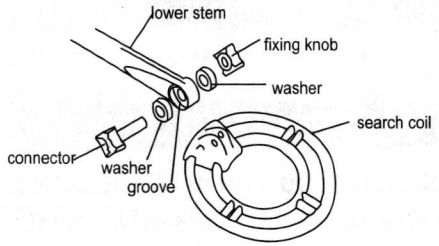
ASSEMBLING THE DETECTOR

Assembling your detector is easy and requires no special tools. Just follow these steps:

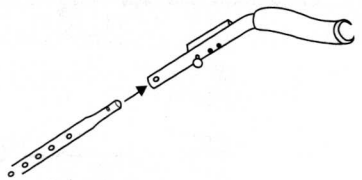
1.Insert the latch on the top of the handle into the assembly hole on the bottom of the control box. Then slightly push the control box in the direction of IN marked on the handle to fix the latch in place. Secure the control box with fixing screw properly.



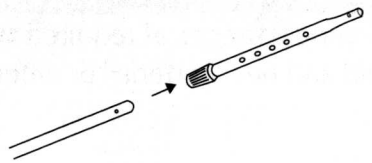
2.Unscrew the fixing knob on the search coil and remove the knob connector. Place the washers into the groove of the lower stem. Then insert the stem and align the holes on the search coil bracket and the stem. Push the connector through the holes and tighten the knob.



3.Press the silver button in the middle stem, and slide the stem into the upper stem.



4.Press the silver button in the lower stem, and slide the stem into the middle stem(there are 5 assembly holes on the middle stem designed for adjusting the length of detector).



5.Wind the search coil cable around the stem. Leave enough slack in the cable. Insert the search coil cable plug into the five pin jack on the front control box's housing.

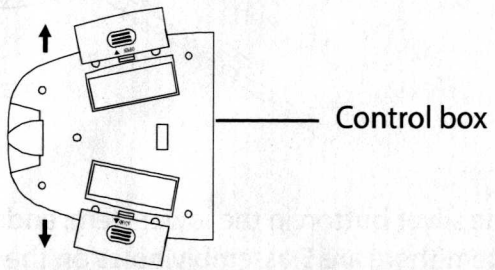
6.Turn the stem's lock nut on the middle stem clockwise until it loosens. Adjust the stem to a length that you feel comfortable when you stand upright with the detectorin your hand, and the search coil is level with the ground with your arm relaxed at your side. Then counter-clockwise rotate to tighten the lock nut.

Caution

- The search coil's plug fits into the connector only one way. Do not force the plug or you could damage it.
- Do not tighten the search coil excessively or use tools such as pliers to tighten it.

INSTALLING BATTERIES

1.Turn the power off before putting in the batteries.
2.Slide the left and right battery covers off in the direction of the arrow.
3.Place two 9V batteries into the battery compartment matching the polarity symbols (+ and -) marked inside.



Cautions

- Use only fresh alkaline batteries of required size.
- Do not mix the old and new batteries or different types of batteries.

- Dispose of old batteries promptly and properly. Do not bury or burn them.
- Remove the batteries, if you don't plan to use the unit for a week or longer. The batteries may leak chemicals that can damage electronic parts.

USING HEADPHONES

1.Insert the headphones'3.5mm plug into the PHONE jack. The internal speaker disconnects at this time.

2.Set the VOLUME to the desired level.

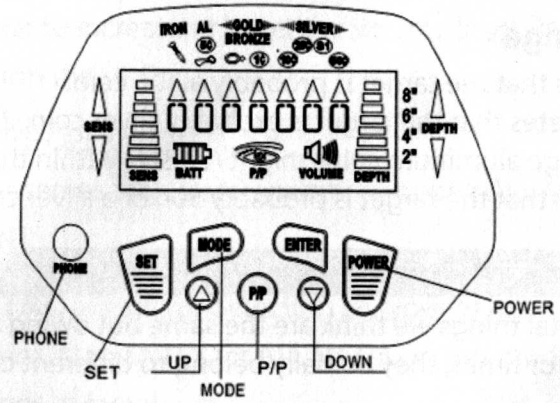
Listening Safely

- To protect your hearing, set the volume to the lowest setting before you beginlistening, and adjust the volume to a comfortable level subsequently.

- Do not wear headphones while operating your detector near high-traffic areas. Pay attention to traffic safety.

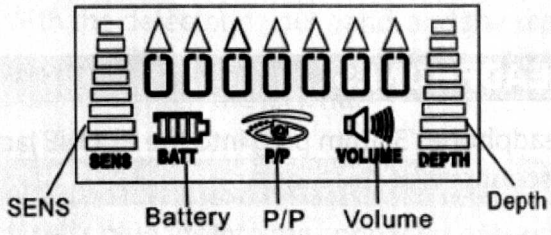
FUNCTIONS AND INDICATIONS

1. OVERVIEW OF THE CONTROL BOX



2. LCD DISPLAY

The LCD displays the detection mode, sensitivity level, battery condition, volume level and the depth of target.
When the detector finds an object, an arrow appears below the target icon. The depth of the target is also displayed.



TARGET DENOMINATION

IRON NAIL - Indicates that the target is probably iron or nail. Some oxidized iron might register somewhere within the SILVER range.

AL/ 5¢/ PULL TAB- Indicates that the target is probably 5¢, aluminum can,pull tab, or a nickel.

GOLD Range

- Indicates that the target is probably a gold ring. Some bronze items might register within this range.

1¢ - Indicates that the target might be a coin of 1¢orzinc penny or a copper coin. Some large rough gold items or bronze objects might register within this category.

SILVER Range

10¢--Indicates that the target is probably a 10¢ coin.
25¢/$1--Indicates that the target is probably silver coin, 25¢ or $1 coin. Some large aluminum coins might register within this category.
50¢--Indicates that the target is probably 50¢ or a silver coin.

Note

- Some metal things we think are the same but owing to different manufactures or times, they actually belong to different categories.

TONES

There are three tones for different kinds of metal type. This makes it easier to identify the metal being detected.

When the detector finds iron, nail, bottle caps, it gives out a low tone. The medium tone is for 5¢, 1¢, 10¢ coins, certain gold rings,aluminum pull tabs, zinc or copper items. The high tone is for 25¢, 50¢, 1$ coinsor silver items.

IRON	AL GOLD BRONZE	SILVER
LOW TONE	MEDIUM TONE	HIGH TONE

OPERATION

1.Press the POWER button to turn the detector on. Press POWER again to turn it off. The LCD displays all symbols.

2.SETTING SENSITIVITY

Press SET and the sensitivity level bar flashes. Press the UP button to increase the sensitivity or the DOWN button to lower it. After that, press ENTER to confirm the setting.

3.SETTING VOLUME

Press SET three times and the volume icon flashes. Press UP button or DOWN button to increase or lower the volume level. Press ENTER after that to confirm the setting.

4.SETTING THE OPERATION MODE

The detector comes with three operating modes: ALL METAL, DISC and PINPOINT.

a.**ALL METAL**—Used for detecting all types of metal.
Press SET twice, then ENTER for ALL METAL. In this mode, the unit can detect all kinds of metal.

b.**DISC**—Used for target discrimination. You can set the target range or eliminate the target you don't want by pressing SET and MODE buttons.

Press SET twice, the blank frame flashes, press UP or DOWN to choose the target you don't want and then press MODE. You can selectmulti-ple targets to be eliminated. After that, press ENTER to confirm the selected target(s) to be eliminated. To pick up the eliminated items, simply press MODE before pressing ENTER or press SET again twice and UP or DOWN to move the flashing frame to the target you want to pick. Press MODE and ENTER after that.

Note: A crossed frame is for item(s) eliminated.

c.**PINPOINT**

After you find a metal object, you can use P/P to pinpoint the target. Hold the P/P button down and the LCD will display P/P as well as an icon of eye. Move the search coil over the area triggering the sound slowly.The detector sounds and the depth indicator on the LCD displays the probable depth of the target. Then release the button, keeping thedistance of search coil from the detection surface the same, now press the P/P no sound would give out. Hold theP/P down and move the search coil closer to the area triggering the sound,the detector sounds again. Repeat the above steps until the detector displays the strongest signal where the location of the target is.

TESTING AND USING THE DETECTOR

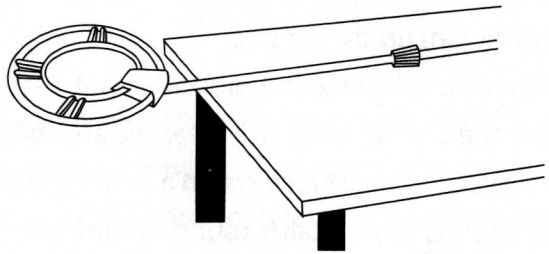
To learn how the detector reacts to different metals, you should test it before you use it the first time. You can test the detector indoors and outdoors. We suggest that you practice finding sample on your own property before you search other locations.

Indoor Testing and Use

1.Press POWER to turn the detector on.

2.Follow the instructions described in OPERATION to set SENSITIVITY, VOLUME and operation 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, let the flat part points towards the ceiling.

5.Sweep slowly over a sample of the material you want the detector to find (such as a gold ring or a coin) 2-3 inches or more away from the face of the search coil.When the detector detects any metal, it sounds a tone and an arrow appears below the target icon. The LCD also displays the depth of the target. If the detector has no reaction, try to increase the sensitivity level.

Note

- Do not test the detector on a floor inside a building. Most build-ings have metal of some kind in the floor, which might interfere with the objects you're testing or mask the signal completely.
- If you are using a coin, the detector will detect it more easily if its flat side is parallel with the flat side of the search coil. Do not sweep the side of coin over the flat side of thesearch coil, doing so might cause false indication and unstable display of arrow.

Outdoor Testing and Use

1.Press POWER to turn the detector on.

2.Follow the instructions described in OPERATION to set SENSITIVITY, VOLUME and operation mode.

3.Find an area outside where there is no metal on the ground .

4.Place a sample of the material you want the detector to find (such as a gold ring or a coin) on the ground.

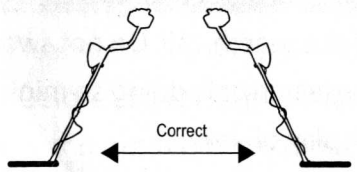
6.Hold the search coil level to the ground about 1~2 inches above the surface, move the search coil slowly over the area where you placed the sample, sweeping the search coil in a side-to-side motion. When the detector detects any metal, it sounds a tone and an arrow appears below the target icon. The LCD also displays the depth of the target. If the detector has no react, try to increase the sensitivity level.

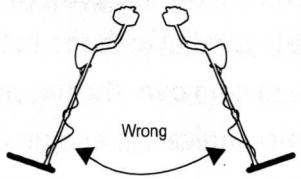
Note

- 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.
- Affected by terrestrial mineralization, the same object may belong to different catogories in air, on the ground or in the soil.

Search Coil Sweeping Hints

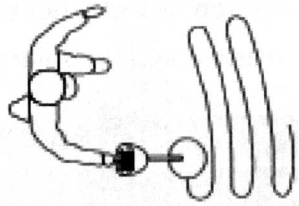
- Do not sweep the search coil as if it was a pendulum. Raising or tilting the search coil while sweeping will cause false readings.





- Sweep slowly as you may miss the target if you rush.

- It's better you sweep the search coil from side to side in a 3-inch arc motion, keeping the search coil parallel with the ground.



The detector can detect the metal type with blank frame below the target name, and an arrow would be displayed below the target if it is found. Meanwhile the detector rejects or does not respond to other metal types with cross icon in the frame [X] displaying below the target's name.

Note

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. Make sure as well that you're moving the search coil correctly.

False Signal Notes

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

- In order to detect the target buried deeply underground, you can adjust the SENS to a high level. However do not set it to the Max position, otherwise the detector will receive interference and false signals from the broadcast antenna and other electronic lines. The detector will have unstable arrow and irregular tone indications.

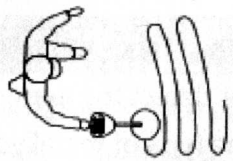
Application Hints

Pinpointing The Target

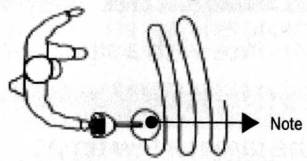
Accurately pinpointing a target makes it easier to dig the target up, but it takes practice to be able to do that.

Follow these steps to pinpoint a target:

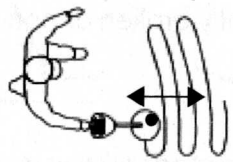
1.When the detector detects a buried target, continue sweeping the search coil around the target in a side-to-side motion;



2.Once the detector beeps, make a visual note of exact spot on the ground;



3.Stop the search coil directly over the note on the ground. Then sweep the search coil in a trajectory that is perpendicular to the previous trajectory;



4.When the detector reacts, make a "X" mark. The target will be directly below the "X" at the point of the beeping response.

Factors That Affect The Detecting

It's difficult to achieve an accurate detecting result. The detection-may sometimes 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 a few more times, you'll obtain satisfactory result eventually.

CARE AND MAINTENANCE

Your GC-1028metal 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.

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

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

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

Wipe the detector with a damp cloth from time to time so as to keepit looking new. Do not use harsh chemicals, cleaning solvents, or strong detergents to clean the detector.

If you have any question about this product,
please contact customer service via email: **support@tymextools.com**

Summit Free Public Library
75 Maple Street
Summit, NJ 07901
39547004489519