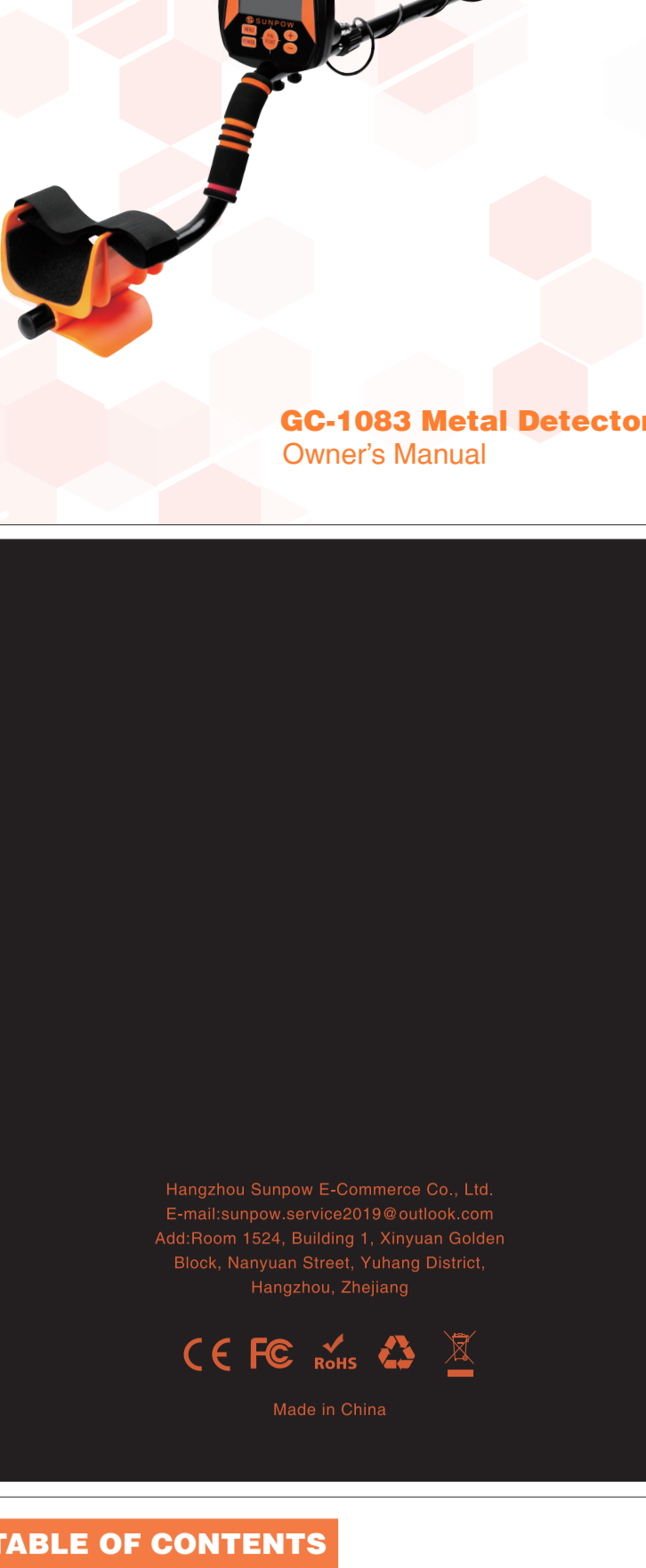
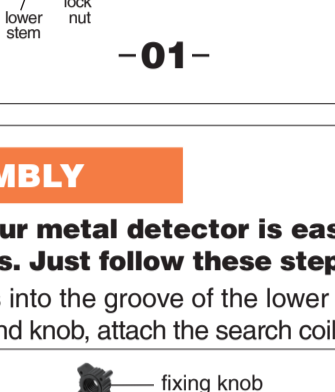


SUNPOW



GC-1083 Metal Detector Owner's Manual

Hangzhou Sunpow E-Commerce Co., Ltd.
E-mail:sunpow.service2019@outlook.com
Add:Room 1524, Building 1, Xinyuan Golden
Block, Nanyuan Street, Yuhang District,
Hangzhou Street, Zhejiang
Province, Hangzhou, Zhejiang



Made in China

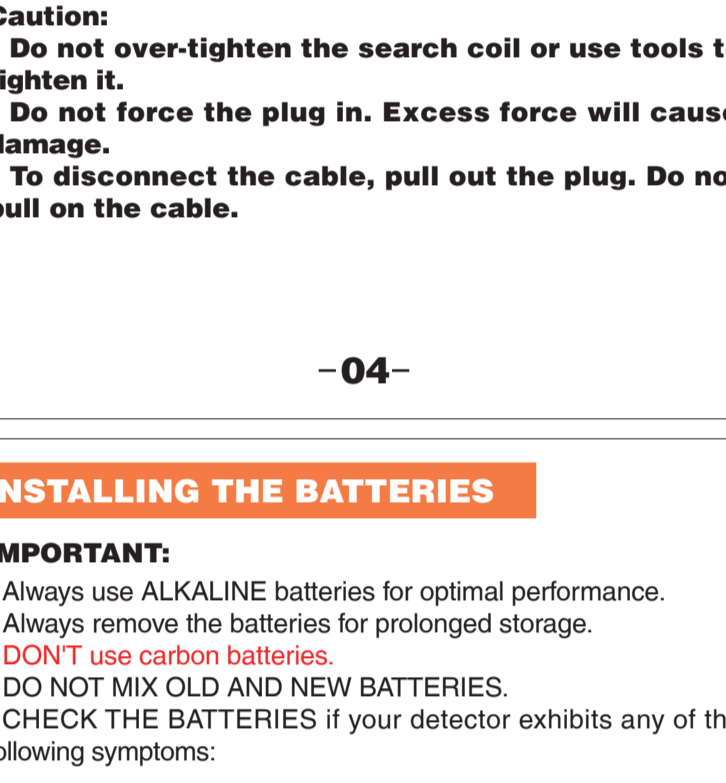
TABLE OF CONTENTS

- Features ----- 01
- Assembly ----- 02-04
- Batteries ----- 05
- Headphones ----- 05
- Layout of The Control Box ----- 06
- LCD DISPLAY ----- 06-08
- Control Buttons ----- 09
- Testing Metal Detector ----- 09-12
- Outdoor Detecting ----- 12-13
- Pinpoint ----- 13
- Troubleshooting Guide ----- 14-15
- Care and Maintenance ----- 15

- 01 -

FEATURES

- **LCD Display:** Shows the probable type of metal, the depth of the target, range of DISC, NOTCH, the level of SENS, VOLUME and battery condition. It also has digital display for target ID.
- **Backlight:** For better use in dark areas.
- **Five Control Buttons:**
 - ① POWER: Turns on or off the power.
 - ② MENU: Press it to select desired operation mode and the setting of SENS and VOLUME.
 - ③ INCREASE (+): Increase the level of sensitivity or volume and the range of DISC (discrimination) or NOTCH.
 - ④ DECREASE (-): Decrease the level of sensitivity or volume and the range of discrimination or NOTCH.
 - ⑤ PINPOINT: Pinpoints the location of the target accurately.
- **Three Tone Audio Discrimination:** Sounds three distinctive tones (high, medium and low) for different types of metal.
- **Headphone Jack:** Lets you connect headphones of 3.5mm and operate without trouble.
- **10 Inch Waterproof Search coil:** Lets you use the detector even if you must put it under shallow water.
- **Adjustable Shaft:** Lets you adjust the length of shaft for comfortable use.

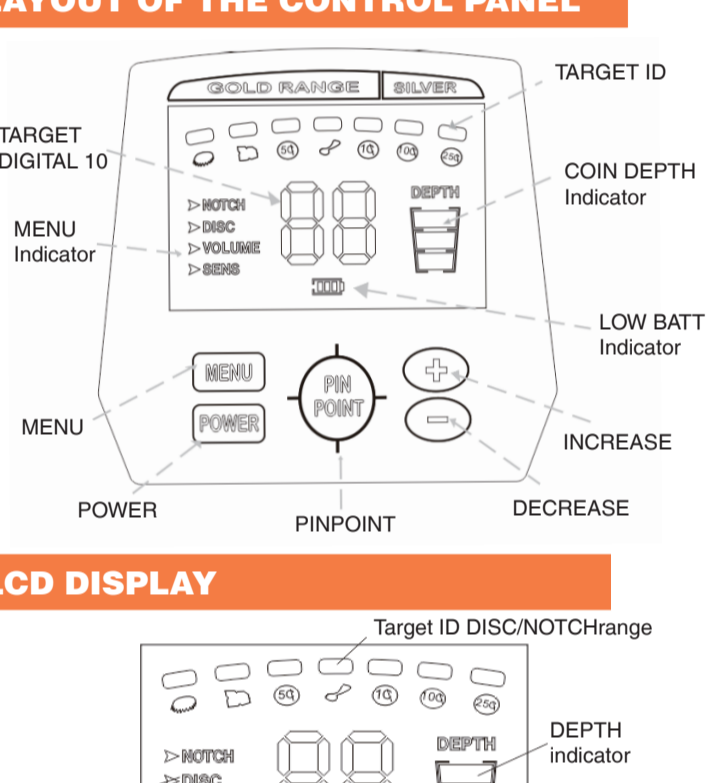


- 01 -

EASY ASSEMBLY

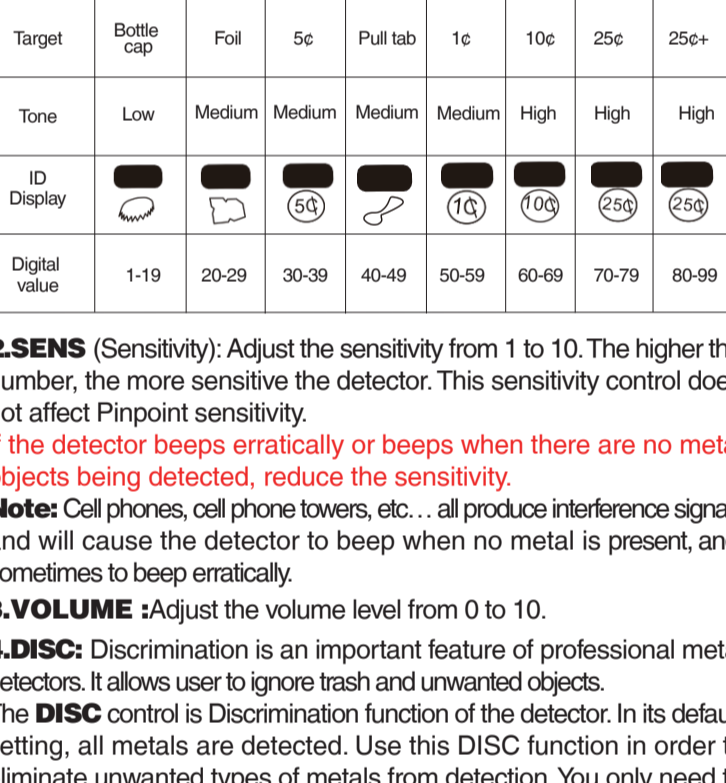
Assembling your metal detector is easy and requires no special tools. Just follow these steps:

1. Put the washers into the groove of the lower stem. Then using the supplied bolt and knob, attach the search coil to the lower stem.



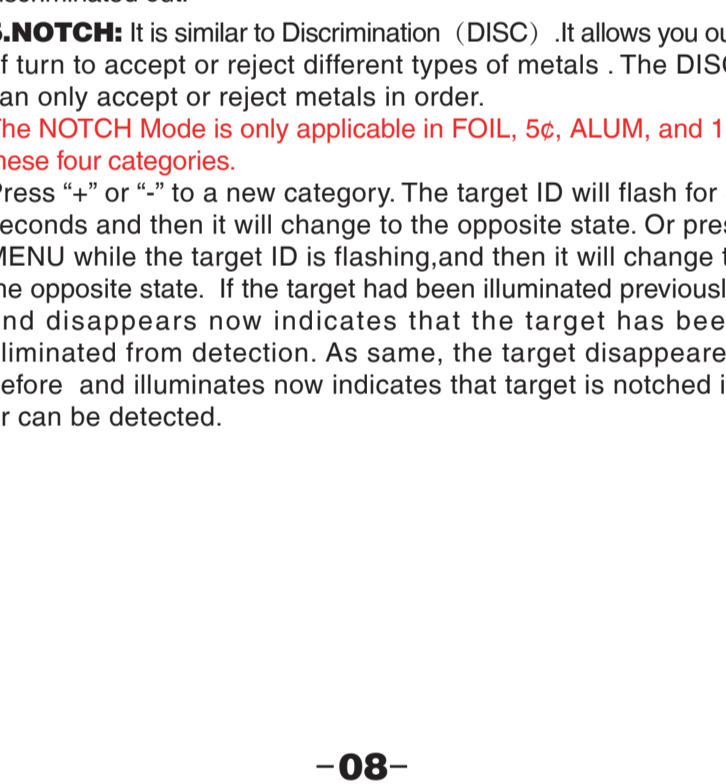
- 02 -

2. Press the button on the upper end of the lower stem and slide the lower stem into the middle stem. Then tighten the lock nut on the middle stem.



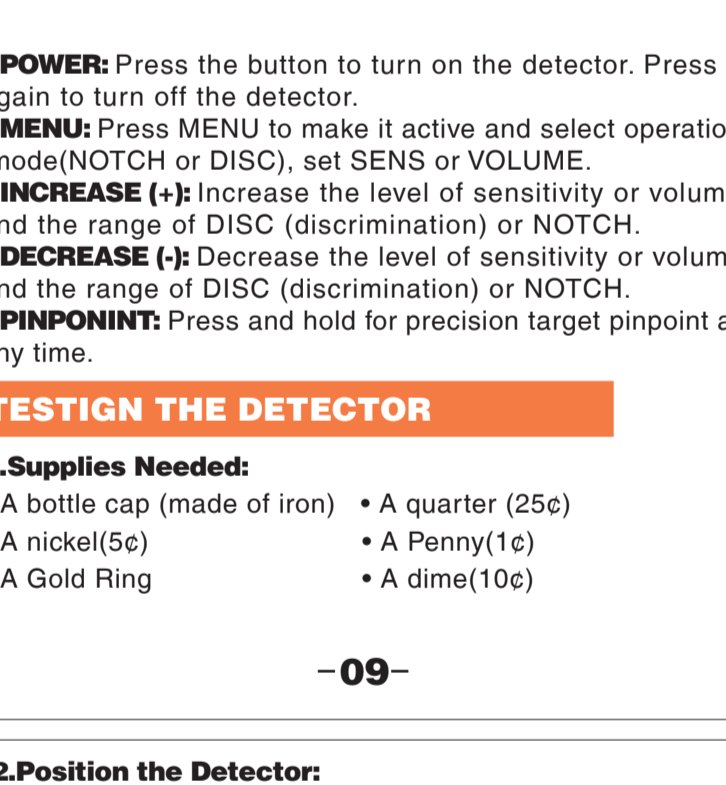
- 03 -

3. Press the button on the middle stem and slide the middle stem into the S stem. Then tighten the lock nut on the S stem.



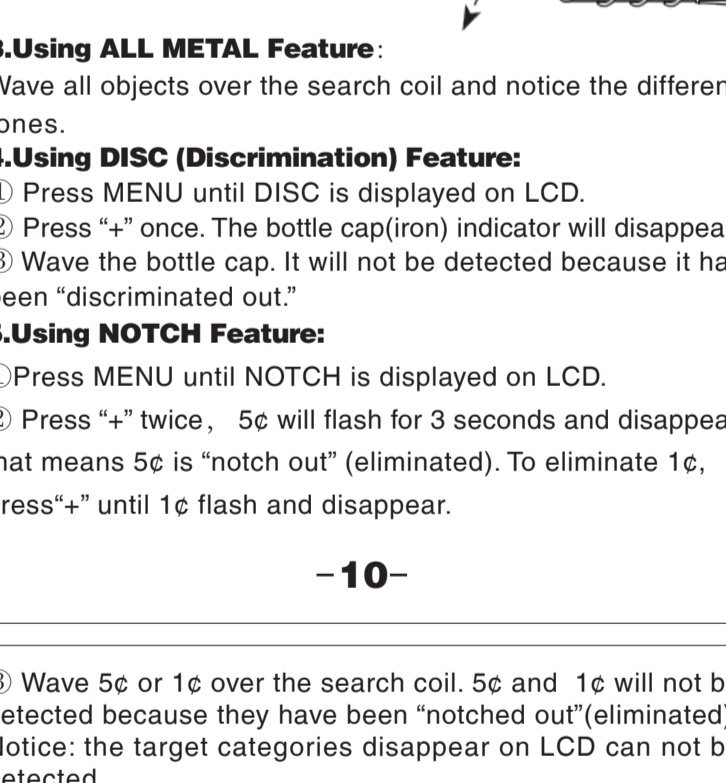
- 04 -

4. Press the button on the top stem, and slide the top stem into the S stem. Adjust the stem to a length that lets you maintain a comfortable upright posture, with your arm relaxed at your side.



- 05 -

5. Fix the control box on the S stem and tighten the fixing screw properly.



- 06 -

6. Wind the search coil cable around the stem. Insert the cable plug into the jack at the back of the control box.

- Caution:**
- Do not over-tighten the search coil or use tools to tighten it.
 - Do not force the plug in. Excess force will cause damage.
 - Do not disconnect the cable, pull out the plug. Do not pull on the cable.

- 07 -

INSTALLING THE BATTERIES

- IMPORTANT:**
- Always use ALKALINE batteries for optimal performance.
 - Always remove the batteries for prolonged storage.
 - **DON'T use carbon batteries.**
 - DO NOT MIX OLD AND NEW BATTERIES.
 - CHECK THE BATTERIES if your detector exhibits any of the following symptoms:

- ① The unit does not turn on.
- ② Low speaker volume.
- ③ Unit beeps continuously at low sensitivity setting.

Follow these steps to install the batteries.
1. Turn off before installing the batteries.
2. Take off the battery cover.
3. Place two 9V alkaline batteries into the battery compartment matching the polarity symbols (+ and -) marked inside.

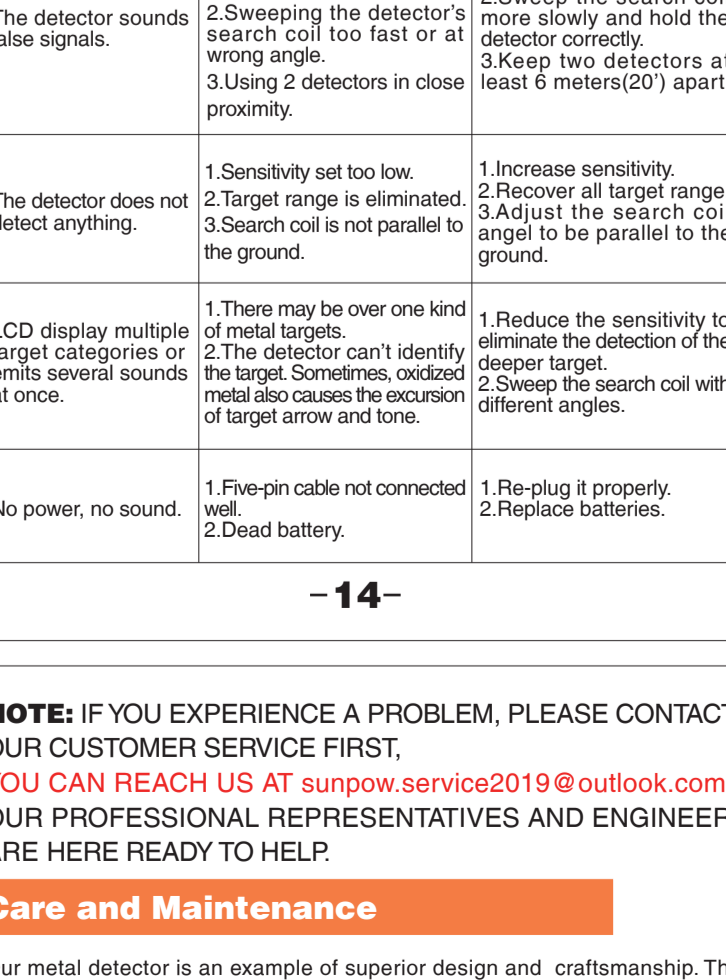
Warning:
• Dispose of old batteries properly. Never bury or burn them.

USING HEADPHONES

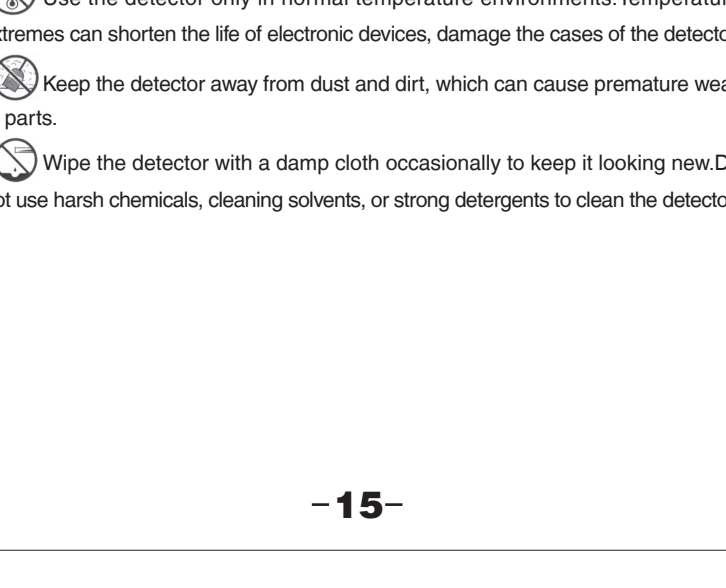
1. It is recommended to connect the headphones with volume control. 2. Insert the headphones' 3.5mm plug into the headphone jack at the bottom of the control box. At this time the internal speaker disconnects.

- 05 -

LAYOUT OF THE CONTROL PANEL



LCD DISPLAY



- 06 -

1. Target ID indications

Metal range	IRON	GOLD RANGE			SILVER RANGE		
Target	Bottle cap	Foil	5c	Full tab	1c	10c	25c+
Tone	Low	Medium	Medium	Medium	Medium	High	High
ID Display							
Digital value	1-19	20-29	30-39	40-49	50-59	60-69	70-79 80-99

2.SENS (Sensitivity): Adjust the sensitivity from 1 to 10. The higher the number, the more sensitive the detector. This sensitivity control does not affect Pinpoint sensitivity.

If the detector beeps erratically or beeps when there are no metal objects being detected, reduce the sensitivity.

Note: Cell phones, cell phone towers, etc... all produce interference signals and will cause the detector to beep when no metal is present, and sometimes to beep erratically.

3.VOLUME : Adjust the volume level from 0 to 10.

4.DISC: Discrimination is an important feature of professional metal detectors. It allows user to ignore trash and unwanted objects.

The **DISC** user is Discrimination function of the detector. In its default setting, all metals are detected. Use this DISC function in order to eliminate unwanted types of metals from detection. You only need to eliminate the targets in order. Each time you press "+" button, a

- 07 -

target will disappear. The target disappears means that category is eliminated from detection. To pick up the eliminated target category, press "-" and categories will be accepted back in order.

Notice: The two targets on the right cannot be eliminated. These two targets represent silver or other high value targets, which are generally desirable. So the detector does not allow them to be discriminated out.

5.NOTCH: It is similar to Discrimination (DISC) . It allows you out of turn to accept or reject different types of metals . The DISC can only accept or reject metals in order.

The NOTCH mode is only applicable in FOIL, 5c, ALUM, and 1c these four categories.

Press "+" or "-" to a new category. The target ID will flash for 3 seconds and then it will change to the opposite state. Or press MENU while the target ID is flashing, and then it will change to the opposite state. If the target had been illuminated previously and disappears now indicates that the target has been eliminated from detection. As same, the target disappeared before and illuminates now indicates that target is notched in or can be detected.

- 08 -

CONTROL BUTTONS

- **POWER:** Press the button to turn on the detector. Press it again to turn off the detector.
- **MENU:** Press MENU to make it active and select operation mode (NOTCH or DISC), set SENS or VOLUME.
- **INCREASE (+):** Increase the level of sensitivity or volume and the range of DISC (discrimination) or NOTCH.
- **DECREASE (-):** Decrease the level of sensitivity or volume and the range of DISC (discrimination) or NOTCH.
- **PINPOINT:** Press and hold for precision target pinpoint at any time.

TESTIGN THE DETECTOR

1. Supplies Needed:

- A bottle cap (made of iron)
- A nickel (5c)
- A Gold Ring
- A quarter (25c)
- A Penny (1c)
- A dime (10c)

- 09 -

2.Position the Detector:

- ① Place the detector on a table with the search coil hanging over the edge.
- ② Be sure that the search coil is far away from walls or metal objects. Keep the search coil away from any metal in the table.
- ③ Turn off equipment that may interfere with electromagnetic radiation.
- ④ Pivot the search coil back.
- ⑤ Press POWER to turn on.

- 10 -

3.Using ALL METAL Feature:

Wave all objects over the search coil and notice the different tones.

4.Using DISC (Discrimination) Feature:

- ① Press MENU until DISC is displayed on LCD.
- ② Press "+" once. The bottle cap (iron) indicator will disappear.
- ③ Wave the bottle cap. It will not be detected because it has been "discriminated out."

5.Using NOTCH Feature:

- ① Press MENU until NOTCH is displayed on LCD.
- ② Press "+" twice, 5c will flash for 3 seconds and disappear that means 5c is "notched out" (eliminated). To eliminate 1c, press "+" until 1c flash and disappear.

- 11 -

③ Wave 5c or 1c over the search coil. 5c and 1c will not be detected because they have been "notched out" (eliminated). Notice: the target categories disappear on LCD can not be detected.

If you want to pick up the target type you eliminated before, press "+" or "-" to the target, and then wait for the target to flash for 3 seconds, or press MENU then when it is flashing.

6.Using PINPOINT Feature:

- ① Press and hold "PINPOINT" button, PP will appear on LCD display.
- ② Hold a coin motionless over the search coil.
- ③ Sweeping coin over search coil.
- ④ Notice that the sound changes as the coin moves closer or further.
- ⑤ Notice that the depth indicator changes as the coin moves up and down.

7.Adjusting SENS(Sensitivity)

- ① Press MENU until SENS is displayed on LCD.
- ② Press "+" or "-" to set the SEN. Sensitivity level can be set from 1 to 10.

8.Adjusting VOLUME

- ① Press MENU until VOLUME is displayed on LCD.
- ② Press "+" or "-" to set VOLUME. Volume level can be set from 0 to 10.

OVERLOAD WARNING

If a metal object or highly magnetic soil are too close to the

- 11 -

search coil, the detector will overload and "- -" will appear on LCD display. The detector will make a rapid, repeating mid-tone warning sound. Overload will not harm the detector, but the detector will not function in these conditions. If overload occurs, keep the search coil away from the target.

Note: There is a wide variety of metals and no target can be identified for certain until unearthed. This table is for general reference only.

OUTDOOR DETECTING

1. Find a place outside where there is no metal.
2. Place a sample you want to find on the ground.
3. Press POWER to turn on the detector.
4. Swing the search coil gently from side to side, slightly overlapping each sweep as you move forward. Keep your search coil approximately 1-2 inches above the ground as you search.

- 12 -

Notes:

- Raising it during the sweep, or at the ends of your sweep, can cause false readings.
- Move slowly; hurrying will cause you to miss targets.

DETECTING WITH PINPOINT

After you find a target, you can use PP (Pinpoint) to find the exact location of the target as follows.

1. Press and hold PP to activate the Pinpoint feature.

2. Move the search coil slowly across the target, and you can locate it by the sound.

Narrow the Detection Range:

1. To narrow the response further, position the search coil near the target.
2. Press PP button and hold, move the search coil slowly.
3. When you hear the sound, you can release the PP.
4. And then press PP to continue the detection. In this way, you can narrow the range of the target.
5. Repeat the above steps.

When the coil moves to the center of the target, the signal from the detector is the strongest.

- 13 -

Troubleshooting Guide

Problem	Reason	Suggestion
The detector displays or sounds without detecting any target.	1. The detector may receive interference and false signal from broadcast antenna and other electronic lines. 2. The humidity of environment may be extremely high.	1. Change searching place. 2. Wait for some time to check again.
The detector sounds false signals.	1. Sensitivity set too high/ environmental electromagnetic interference. 2. Sweeping the detector's search coil too fast or at wrong angle. 3. Using 2 detectors in close proximity.	1. Reduce sensitivity. 2. Sweep the search coil more slowly and hold the detector correctly. 3. Keep two detectors at least 6 meters (20') apart.
The detector does not detect anything.	1. Sensitivity set too low. 2. Target range is eliminated. 3. Search coil is not parallel to the ground.	1. Increase sensitivity. 2. Recover all target range. 3. Adjust the search coil angle to be parallel to the ground.
LCD display multiple target categories or emits several sounds at once.	1. There may be over one kind of metal targets. 2. The detector can't identify the target. Sometimes, oxidized metal also causes the excursion of target arrow and tone.	1. Reduce the sensitivity to eliminate the detection of the deeper target. 2. Sweep the search coil with different angles.
No power, no sound.	1. Five-pin cable not connected well. 2. Dead battery.	1. Re-plug it properly. 2. Replace batteries.

- 14 -

NOTE: IF YOU EXPERIENCE A PROBLEM, PLEASE CONTACT OUR CUSTOMER SERVICE FIRST.

YOU CAN REACH US AT sunpow.service2019@outlook.com.

OUR PROFESSIONAL REPRESENTATIVES AND ENGINEERS ARE HERE READY TO HELP.

Care and Maintenance

Our 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.

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

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

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

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.

- 15 -