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SUNPOW MD13-US

SUNPOW MD13 Metal Detector User Manual

Model: MD13-US

1. Introduction

Thank you for choosing the SUNPOW MD13 Metal Detector. This manual provides essential information for the proper setup, operation, and maintenance of your device. Please read it thoroughly before use to ensure optimal performance and longevity of your metal detector.
The SUNPOW MD13 is designed for both adults and kids, offering stable anti-interference capabilities, higher accuracy, and a large LCD display for clear information. Its IP68 waterproof search coil allows for versatile use in various environments.

2. Setup and Assembly

Follow these steps to assemble your SUNPOW MD13 Metal Detector:

1. **Unpack Components:** Carefully remove all components from the packaging. Ensure you have the main control unit, adjustable stem, search coil, armrest, headphones, foldable shovel, and two 9V batteries.
2. **Install Batteries:** Open the battery compartment on the main control unit and insert the two 9V batteries, ensuring correct polarity. Close the compartment securely.
3. **Attach Search Coil:** Connect the search coil to the lower stem using the provided bolt and washers. Ensure the washers are properly seated in the slots to prevent wobbling.
4. **Assemble Stem:** Connect the lower stem (with the search coil) to the middle stem, and then connect the middle stem to the upper stem. The stem is adjustable to suit different user heights.
5. **Mount Control Unit:** Slide the main control unit onto the top of the upper stem. Secure it in place.
6. **Connect Search Coil Cable:** Wrap the search coil cable neatly around the stem and plug the connector into the port on the main control unit. Ensure a snug fit.
7. **Attach Armrest:** Secure the armrest to the upper stem. Adjust its position for comfortable use.
8. **Connect Headphones:** Plug the headphones into the designated audio jack on the control unit.

Figure 1: Assembled SUNPOW MD13 Metal Detector with included accessories (headphones, foldable shovel, batteries).

Figure 2: Detailed view of the metal detector's components, including the 8-inch waterproof search coil, adjustable stem, and professional LCD display.

3. Operating Instructions

The SUNPOW MD13 features a large LCD display and intuitive controls for easy operation.

3.1 Control Panel Overview

Figure 3: The clear and intuitive LCD display shows target ID, depth, sensitivity, volume, and mode indicators. Buttons for Power On/Off, Pinpoint, Mode Select, and Sensitivity/Volume Adjust are clearly visible.

3.2 Detection Modes

The MD13 offers four distinct detection modes:

- **All Metal Mode:** Detects all types of metals. Ideal for general treasure hunting when you want to find everything.
- **Notch Mode:** Allows you to eliminate unwanted metals. You can selectively ignore certain metal types (e.g., iron, pull tabs) to focus on more valuable targets.
- **Pinpoint Mode (PP):** Used to precisely locate the target once a general area has been identified. This helps in minimizing digging and quickly retrieving the item.

- **Memory Mode:** Detects only the memorized metal type. This is useful for repeatedly searching for a specific type of target.

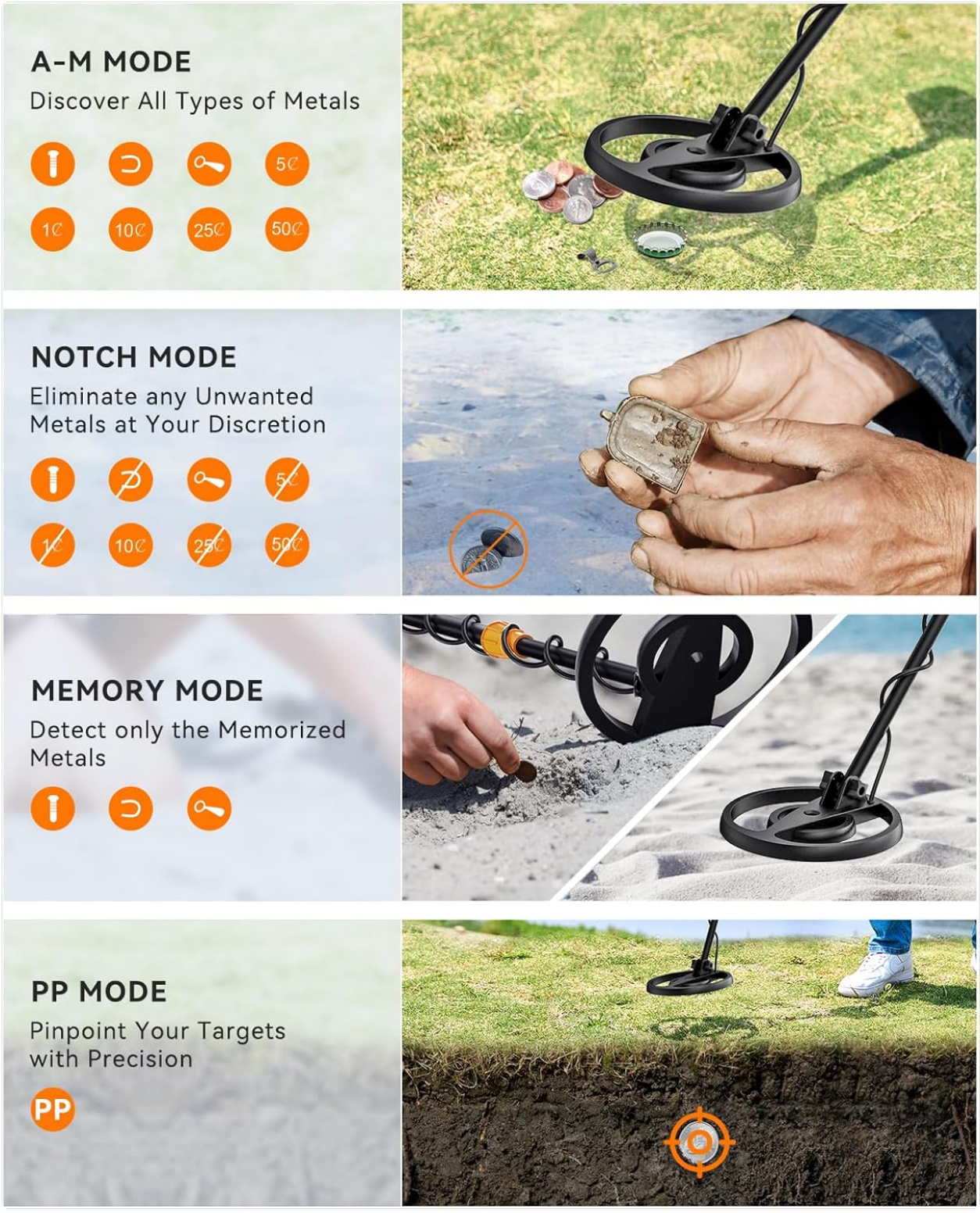

Figure 4: Visual representation of the four detection modes and their primary functions.

3.3 Target Identification and Depth

The large LCD screen provides clear information about detected targets:

- **Target ID:** A numerical value (0-99) indicates the probable type of metal. Different ranges correspond to different metals (e.g., iron, 5-cent coins, 1-cent coins, 10-cent coins, 25-cent coins, 50-cent coins).
- **Depth Indicator:** Shows the approximate depth of the detected object, helping you determine how deep to dig.

- **Audio Tones:** The detector emits distinct audio tones for different metal types, allowing for identification without constantly looking at the screen.

Figure 5: The LCD screen displaying target identification values and corresponding metal types.

3.4 Search Coil Usage

The 8-inch search coil is IP68 waterproof, allowing for detection in shallow water.**Note: The control box is not waterproof and should not be submerged.**

Figure 6: The IP68 waterproof search coil in use near water. Remember to keep the control box dry.

4. Maintenance

Proper maintenance ensures the longevity and performance of your metal detector:

- **Cleaning:** After each use, especially in sandy or wet conditions, wipe down the search coil and stem with a damp cloth. Avoid using abrasive cleaners.
- **Battery Care:** Remove batteries if the detector will not be used for an extended period to prevent leakage and damage. Store batteries in a cool, dry place.
- **Storage:** Store the metal detector in a dry, cool environment, away from direct sunlight and extreme temperatures. The included carry bag is ideal for protection during storage and transport.

- **Cable Inspection:** Periodically check the search coil cable for any signs of wear or damage. Ensure connections are secure.

5. Troubleshooting

If you encounter issues with your metal detector, refer to the following common problems and solutions:

- **No Power:**
  - Check if batteries are correctly installed.
  - Ensure batteries have sufficient charge. Replace if necessary.
  - Verify all cable connections are secure.
- **False Signals/Erratic Behavior:**
  - Reduce sensitivity settings. High sensitivity can pick up more ground mineralization or electrical interference.
  - Move away from power lines, other electronic devices, or large metal structures.
  - Perform a ground balance if available (refer to specific instructions in the full user guide for advanced models, though MD13 is generally automatic).
- **No Detection:**
  - Increase sensitivity settings.
  - Ensure the search coil is properly connected.
  - Verify you are in the correct detection mode (e.g., All Metal mode for general searching).

For persistent issues not covered here, please contact customer support.

6. Specifications

Feature	Specification
Brand	SUNPOW
Model Number	MD13-US
Color	Black
Power Source	Battery Powered (2 x 9V batteries)
Material	Acrylonitrile Butadiene Styrene
Item Weight	1.4 Pounds
Product Dimensions	7"L x 4"W x 14"H
Adjustable Length	Yes
Display Type	LCD
Search Coil Size	8 Inches
Waterproof Rating	IP68 (Search Coil Only)

7. Warranty and Support

Limited Warranty: SUNPOW products are backed by a limited warranty against defects in materials and workmanship. Please retain your proof of purchase for warranty claims. Specific warranty duration and terms may vary by region. Refer to the product packaging or the official SUNPOW website for detailed warranty information.
Customer Support: For technical assistance, troubleshooting, or warranty inquiries, please contact SUNPOW customer support through the following channels:

- **Online:** Visit the official SUNPOW Store on Amazon:SUNPOW Store
- **Email:** Refer to the contact information provided in your product packaging.

Please have your model number (MD13-US) and purchase date ready when contacting support.

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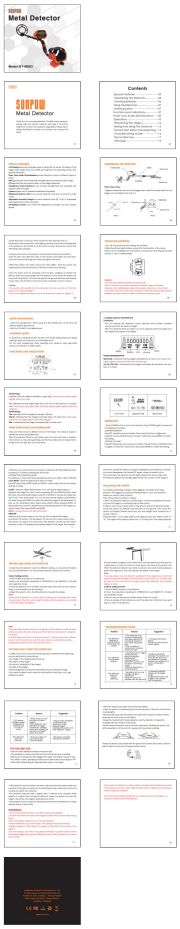
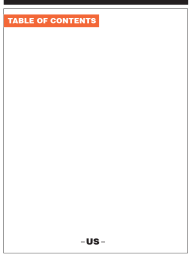
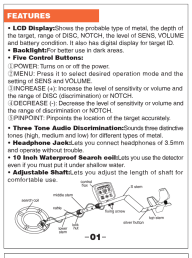
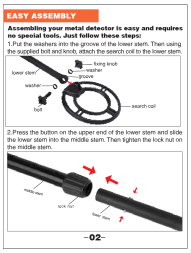
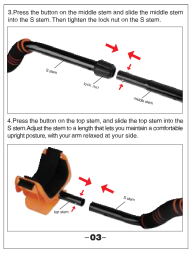
Related Documents - MD13-US

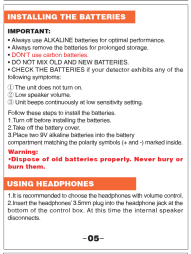
	SUNPOW OT-MD03 Metal Detector User Manual for Adults & Kids Comprehensive user manual for the SUNPOW OT-MD03 Metal Detector. Learn how to use this high-accuracy device, featuring an LCD display, pinpoint function, DISC mode, and a waterproof search coil, for metal detecting adventures.

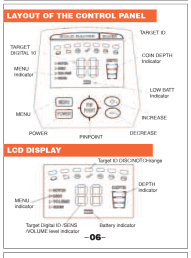


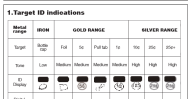












[SUNPOW GC-1083 Metal Detector Owner's Manual]

Owner's manual for the SUNPOW GC-1083 Metal Detector, covering features, assembly, battery installation, control box layout, LCD display, control buttons, testing, outdoor detecting, pinpointing, troubleshooting, and maintenance.

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 effect 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** control 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

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.

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 quarter (25c)
• A nickel(5c)	• A Penny(1c)
• A Gold Ring	• A dime(10c)

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.

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 "notch out" (eliminated). To eliminate 1c, press"+" until 1c flash and disappear.

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 MEMU button 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

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.

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.

• Most desirable objects will respond with a repeatable tone. When discriminating, iron and foil objects generally do not respond.
• False signals can be caused by trashy ground, electrical interference, or by large irregular trash objects. These signals are easily recognized by their often broken or non-repeatable nature.

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 Deteetion Rage:
1.To narrow the response further, position the search coil near the 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.

Troubleshooting Guide

Problem	Reason	Suggestion
The detector doesn't work or it is difficult detecting any target.	1.The detector may receive interference and false signal from broadcast antenna and power transmission line. 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.Manipulating 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.Hold the detector correctly. 3.Keep two detectors at least 4 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 malfunction of target categories (the target categories do not sound at once).	1.There may be over one kind of metal targets. 2.The detector can't identify deeper target. 3.The detector was used for metal disc causes the recognition of target unclear and tune.	1.Reduce the sensitivity to eliminate the detector of the deeper target. 2.Replace the search coil with different angles.
No power, no sound.	1.Pins on cable not connected. 2.Dead battery.	1.Re-plug it properly. 2.Replace batteries.

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.

Thank you for choosing **MD-620** metal detector. Please read the owner's manual carefully before operating the metal detector. Save this manual for future reference. If you have any problems and questions, please contact us.

Email US:sunpow.service@hotmail.com

Email UK:sunpowes@outlook.com

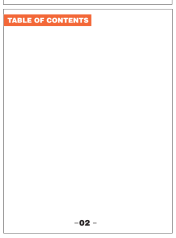


TABLE OF CONTENTS

FEATURES

With your MD - 620 metal detector, you can hunt for coins, jewelry, gold, and silver anywhere. The detector comes with high sensitivity and strong ability of discrimination. It is versatile and easy to use.

•**LCD Display:**Shows the probable type of metal, the signal intensity, the range of DISC & NOTCH, the level of SENS and VOLUME , and battery condition.It also shows numeric display for target

•**Three Tone Audio Discrimination:**Sounds three distinctive tones (high, medium and low) for different types of metal. Helps you ignores junk metal and finds valuable items by setting the notch range.

•**DISC:**Discriminates the unwanted target by setting the DISC numeric range. The detector will not detect the target beyond the numeric setting.

•**Pinpoint:**Pinpoints the location of the target accurately.

•**Super Slow Sweep Identification:**With a very slow sweep of the search coil to discriminate different types of metal.

•**Headphone Jack:**Connect headphones of 3.5mm and operate without trouble.

•**Waterproof Search coil:**Use the detector even if you must put it under shallow water.

•**Adjustable Shaft:**Adjust the length of shaft for comfortable use.

•**Power**: Your metal detector requires two 9-volt alkaline batteries.

PREPARATION

STEP 1. Your MD-620 detector requires no assembly or tools. Simply removes the detector from the box.

STEP 2. Turn the detector 180 degree as shown in the figure.

STEP 3. Press down the UNLOCK button to release the handle.

STEP 4. Slide out the armrest to the desired length (typically just under your elbow). And fully extend the lower shaft to the desired length for your height.

BATTERIES

•**Please use two 9V alkaline battery.**

•Open the battery cover and install the battery according to the polarity sign in the battery box.

•**Warning:**Dispose of old batteries promptly and properly. Never burn or burn them.

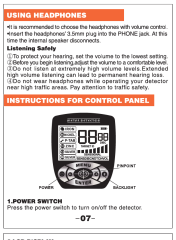
•**Caution:**

①Do not mix the old and new batteries or different types of batteries.

②Use only fresh alkaline batteries of required size.

③If you don't plan to use the unit for a week or more time, remove the batteries.Batteries can leak chemicals that can destroy electronic parts.

④If the battery indicator on the LCD lights up, replace the battery.



USING HEADPHONES

•It is recommended to choose the headphones with volume control.•Insert the headphones' 3.5mm plug into the PHONE jack. At this time the internal speaker disconnects.

Listening Safety

①To protect your hearing, set the volume to the lowest setting before putting headphones on, then adjust to a comfortable level.

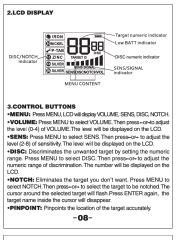
②Do not listen at extremely high volume levels.Extended high volume listening can lead to permanent hearing loss.

③Do not wear headphones while operating your detector near high traffic areas. Pay attention to traffic safety.

INSTRUCTIONS FOR CONTROL PANEL

1.POWER SWITCH

Press the power switch to turn on/off the detector.



2.LCD DISPLAY

3.CONTROL BUTTONS

•**MENU:** Press MENU LCD will display VOLUME, SENS, DISC, NOTCH.

•**VOLUME:** Press MENU to select VOLUME. Then press-on+to adjust the level (0-4) of VOLUME.The level will be displayed on the LCD.

•**SENS:** Press MENU to select SENS. Then press-on+ to adjust the level (0-9) of sensitivity.The level will be displayed on the LCD.

•**DISC:** Discriminates the unwanted target by setting the numeric range. Press MENU to select DISC. Then press-on+to adjust the numeric range of discrimination. The number will be displayed on the LCD.

•**NOTCH:** Eliminates the target you don't want. Press MENU to select NOTCH.Then press-on+ to select the target to be notched.The cursor around the selected target will flash.Press ENTER again, the target name inside the cursor will disappear.

•**PINPOINT:** Pinpoints the location of the target accurately.

4.BACKLIGHT SWITCH

Press the backlight switch to turn on/off the backlight of the detector.

5.MEMORY

The detector will memorize all the settings before power is off.

TARGET INDICATIONS

1.Numeric ranges of target:

-IRON-	00-10
-Ni-	11-25
-P-TAB-	26-40
-1¢	41-60
-10¢	61-80
-25¢	81-99

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

[SUNPOW Foldable Metal Detector User Manual]

This document provides instructions and specifications for the SUNPOW Foldable Metal Detector for Adults, a professional, waterproof, and adjustable metal detector with an LCD display, 11-inch search coil, and 5 modes.

2.Types of target
-IRON: It indicates that the target is probably iron.
-5cN: It indicates that the target is probably 5c or a nickel. Some smal l gold rings might register within this range.
-P-TAB: It indicates that the target is probably a pull tab of an aluminum can. Some small gold rings might register within this range.
-1cN: It is indicated that the target is probably a coin of 1c or type of metal of zinc alloy. Some medium sized gold rings might register within this category.
-10c: It indicates that the target might be a coin of 10c. Some large rough gold items might register within this category.
-25c: It indicates that the target is probaby 25c or a silver coin.

3.Tones
The detector comes with three tones for different types of metal. In Disc mode, the target identification system sounds a unique tone for each of three categories of metal. This makes it easier to identify the metal being detected.
A low tone is for IRON, 5c, same as for lid, bottle cap or nickels.
A medium tone is for P-TAB, ZN, 1c(aluminum pull tabs, zinc or copper items). A high tone is for 10c,25c,same as for brass or silver items.

INDOOR TESTING AND USE

1.Press the power switch to turn on the detector.
2. Setting the mode:
Press the press-on MENU to select DISC, then set the DISC numeric value. If the DISC value is set to "00", the detector can detect all kinds of metal. In this case, when the detector finds a target, the cursor around the target will light up. If you don't want to find the target listed on the LCD, you can press-on+to set the DISC number to "05" or higher.
For example, the numeric target range for 5c is 11-25, you can simply press MENU5 to select DISC, then press-on+to set the DISC number to "28". In this case, the numeric range is beyond 5c.The detector will not have response to it. Neither will the detector have response to iron. Because the target numeric range for iron is 5-10.
(.NOTCH:Press MENU to select NOTCH, then press-on+to select the target to be notched. The cursor around the selected target will flash. Then press ENTER , the target will disappear.(If the LCD is in the standby state, pressing ENTER will activate and enter standby state.) It means this target has been notched. If you want to pick up the target that notched, press ENTER again and the target will be shown.
Notcsit is not recommended to notch all targets listed on the LCD.Because if you notch everything, you can't find anything.

3.Press MENU to select SENS, then press-on+to set the sensitivity.
4.Place the detector on a wooden or plastic table, then remove watch, ring, or metal jewelry you are wearing.
5.Adjust the search coil so that it points flat to the ceiling. (As picture shown)

Note:Never test the detector on a floor inside a building. Most buildings have metal in the floor, which might interfere with the objects you're testing or mask the signal completely.
6.Slowly sweep a sample of the material you want the detector to find (such as a gold ring or a coin) to 2-3 inches or more above the face of the search coil.When the detector detects a target, it sounds a tone and the cursor around the target will light up. Also LCD displays the numeric value of target and the signal strength of it.Please note that the signal strength is only a reference.
Note:
If you are using a coin, make the side of the coin is parallel to the side of the search coil, so that the detector will detect the largest surface area of the coin. Sweeping over the search coil may cause false indications and unstable target display.
7. PP(PINPOINT).
After you find a metal object, you can use PP to pinpoint the target. Press the PP button and slowly move the search coil

above the sound area.The detector sounds and the signal indicator on the LCD displays the level of signal. Then press PP button again to release the PP.Sweep the search coil again, cover the search coil to the sound area, the detector sounds. Press PP button again, cover the search coil to the sound area, the detector sounds again. Repeat the above steps until the detector displays the stronger signal where the location of the target is.
Note: To find the exact location of target, you need to practise more times.

OUTDOOR TESTING AND USE

1.Press the power switch to turn on the detector.
2.Follow the steps of 2 described in section of Indoor Testing to make the detector ready.
3.Find an area on the ground outside where there is no metal.
4.Place a sample of the material that you want the detector to find (such as a gold ring or a coin) on the ground.
5.Hold the search coil to the ground about 1–2 inches above the surface and then move the search coil over the area slowly where you placed the sample and sweeping the search coil in a side-to-side motion.
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 parallel lines with 1-2 inches overlap and keep the search coil parallel with the ground.
•If the detector detects the item, it sounds a tone, and the cursor aroundthe target name will light. Also LCD displays the numeric range of target as well as the signal strength.
•If you become familiar with how your detector works, it's important to fine-tune the sensitivity to get a good result. Press MENU to select SENS. Then press or to increase ➡or➡decrease the sensitivity. The level will be displayed on the LCD.

Note:
The sensitivity of the machine is set to medium and low sensitivity at the factory. You need to adjust the sensitivity for the first detection. This machine has a memory function. It will continue the last setting when the machine is restarted.
When the machine is in the detection mode or is disturbed, the machine will turn on the self-protection function

and cannot switch the function by pressing the button. You can release the self-protection state by changing the working state, stay away from the interference area or reduce the detection sensitivity,Then the button switch function will return to normal.

Using Backlight

In dark area, you can use Backlight for better searching. Press backlight button to turn on the backlight.
Note: As the backlight consumes more power, we suggest you turn off the backlight in normal environment.

Factors that Affect the Detecting

It's difficult to have an accurate detecting result. Sometimes the it's difficult to have an accurate detecting result.
• 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.
• Electromagnetic and electrical interference surrounding the target.
In an area of highly mineralized ground,or fertile ground,or wet sand, the detector will sound even if there is no metal.In this case,you can lower the sensitivity or increase the DISC numeric value. Meantime enhance the distance between the search coil and the ground. In area with trashy metal, you can set the DISC numeric value to 50, in this case most nails and small pieces of iron will be eliminated.

Troubleshooting Guide

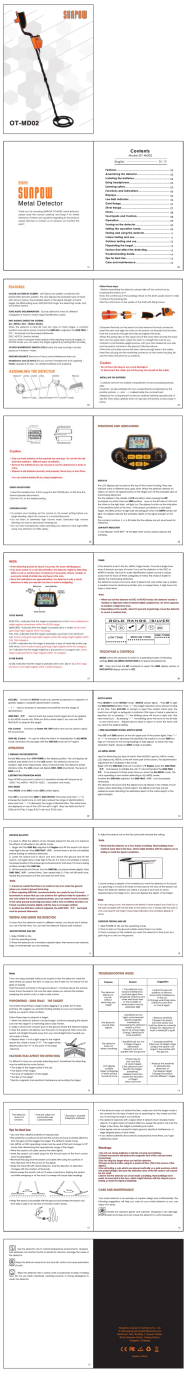
Problem	Reason	Suggestion
The detector displays no response when detecting any target	1.The detector may receive interference and false signal from broadcast antenna and high-voltage power line. 2.The humidity of environment may be extremely high.	1.Change searching place. 2.Wait for some time to check again.
The detector sounds false signals.	1.Sensitivity set too high 2.Some unwanted electromagnetic interference 3.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 steadily 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 not parallel to the ground.	1.Increase sensitivity. 2.Recover all target range. 3.Adjust the search coil parallel to be parallel to the ground.
LCD displays no disc target categories or omits several sounds at once.	1.There may be over-one kind of metal objects. 2.The detector can't identify the target. Sometimes,multiple targets confuse the detection of target anew and tone.	1.Reduce the sensitivity to eliminate the detection of the unwanted target. 2.Sweep the search coil with different angles.
No power, no sound.	1.Pleve pin cells not connected well 2.Dead battery	1.Re-plug it properly 2.Replace batteries.

NOTE: IF YOU EXPERIENCE A PROBLEM, PLEASE CONTACT OUR CUSTOMER SERVICE FIRST,
YOU CAN REACH US AT sunzow.service2019@outlook.com.
OUR PROFESSIONAL REPRESENTATIVES AND ENGINEERS ARE HERE READY TO HELP.

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.

- Handle the detector gently and carefully. Dropping it can damage circuit boards and cases that cause the detector to work improperly.
- Use the detector only in normal temperature environments. Temperature extremes can shorten the life of electronic devices and damage the cases of the detector.
- 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.
- Keep the detector away from dust and dirt, which can cause premature wear of parts.



[SUNPOW OT-MD02 Metal Detector User Manual]

Comprehensive user manual for the SUNPOW OT-MD02 metal detector, detailing its features, operation, specifications, and troubleshooting tips for hobbyists and enthusiasts.

[SUNPOW HP1172 Electric Pressure Washer User Manual]

This user manual provides comprehensive instructions for the SUNPOW HP1172 Electric Pressure Washer, detailing safety precautions, product features, assembly, operation, maintenance, and troubleshooting for optimal use.

	[SUNPOW SP-JS01 16000mAh Lithium Jump Starter User Manual] User guide for the SUNPOW SP-JS01 16000mAh Lithium Jump Starter, covering safety warnings, technical specifications, product description, what's in the box, LED indicators, charging instructions, jump starting procedures, and troubleshooting.