SUNPOW OTMD07

SUNPOW OTMD07 Metal Detector User Manual

1. Introduction

Thank you for choosing the SUNPOW OTMD07 Metal Detector. This device is designed for efficient metal detection, featuring an IP68 waterproof search coil, high precision, and multiple detection modes. This manual provides essential information for the proper assembly, operation, and maintenance of your metal detector to ensure optimal performance and longevity.

2. Package Contents

Upon unpacking, please verify that all the following items are included:

- SUNPOW OTMD07 Metal Detector Unit
- Over-ear Headphones
- Compact Digging Shovel
- Carrying Bag
- 2 x Batteries (AA or 9V, depending on model variant)
- User Manual

This image displays the complete SUNPOW OTMD07 Metal Detector kit, including the main unit with its search coil, control box, and adjustable stem, alongside essential accessories such as over-ear headphones, a compact digging shovel, a protective carrying bag, and two batteries.

3. Product Overview

3.1 Main Components

Key components of the SUNPOW OTMD07 include a telescopic rod adjustable from 36.2 to 47.2 inches, an EVA foam handle for comfortable grip, an ergonomically designed armrest, a 10-inch IP68 waterproof search coil, anti-interference nylon material for durability, and a backlit LCD screen for clear visibility.

- **Control Box:** Houses the LCD screen, control buttons, and electronic circuitry.
- **Adjustable Stem:** Allows for height adjustment to suit different users (36.2 to 47.2 inches).
- **Search Coil:** 10-inch IP68 waterproof coil for detecting metals.
- **Armrest:** Provides comfort and stability during use.
- **Handle:** EVA foam handle for a secure grip.

3.2 LCD Screen Features

The intuitive HD LCD screen provides real-time information about detected targets and current settings.

The intuitive HD LCD screen of the SUNPOW OTMD07 Metal Detector provides clear visual feedback. It displays the target ID number, battery level, current sensitivity setting, active detection mode, volume level, and estimated target depth. A backlight function is available for low-light conditions.

- **Target ID:** Numerical value (0-99) indicating the probable metal type.
- **Battery Indicator:** Shows remaining battery life.
- **Sensitivity Level:** Displays the current sensitivity setting.
- **Mode Indicator:** Shows the active detection mode.
- **Volume Level:** Indicates the audio output volume.
- **Depth Indicator:** Estimates the target's depth.
- **Backlight:** For improved visibility in low-light conditions.

4. Assembly & Setup

4.1 Assembly Instructions

1. Attach the search coil to the lower stem using the provided bolt and nut.
2. Connect the lower stem to the middle stem, and then connect the middle stem to the upper stem (control box assembly). Ensure all connections are secure.
3. Wrap the search coil cable around the stem, ensuring it is snug but not overly tight, and plug the connector into the control box.
4. Insert the batteries into the battery compartment located on the control box.
5. Adjust the stem length to a comfortable height using the locking collars. The adjustable height range is from 36.2 inches (91.95 cm) to 47.2 inches (119.89 cm).

The adjustable stem of the SUNPOW OTMD07 Metal Detector can be extended from 36.2 inches (91.95 cm) to 47.2 inches (119.89 cm), making it suitable for both children and adults.

4.2 Initial Power On

Press the power button to turn on the device. The LCD screen will illuminate, and the detector will perform a brief self-test.

5. Operating Modes

The SUNPOW OTMD07 offers five distinct detection modes to cater to various metal detecting needs.

The SUNPOW OTMD07 offers five distinct detection modes to optimize your search: 1. ALL METAL Mode for detecting all types of metal. 2. DISC Mode to eliminate unwanted metals. 3. NOTCH Mode for arbitrary rejection of specific items. 4. VOLUME Mode for adjusting audio feedback. 5. PP (Pinpoint) Mode for precise target location.

5.1 ALL METAL Mode

This mode detects all types of metals without discrimination. It is ideal for general metal detection when you want to find any metallic object.

ALL METAL Mode is designed to detect all 9 types of metals without discrimination. When a metal is detected, the device provides a signal, making it suitable for general metal detection needs.

5.2 DISC (Discrimination) Mode

Use this mode to eliminate unwanted metal types from detection. You can adjust the discrimination level to ignore common junk metals while searching for specific valuable items.

In DISC (Discrimination) Mode, the detector allows you to eliminate unwanted metal types. This is useful for filtering out junk metals while searching for specific items like lost rings or silver coins. The screen shows the target ID and the active DISC mode.

5.3 NOTCH Mode

NOTCH Mode allows you to arbitrarily eliminate specific metal types from detection. This provides more precise control over what metals the detector will respond to.

NOTCH Mode is a practical feature that allows you to arbitrarily eliminate specific metal types from detection. This enables you to focus on finding only the metals you desire by ignoring others.

5.4 VOLUME Mode

This mode allows you to adjust the audio output level of the detector. Different metals produce distinct sounds, aiding in their identification. You can adjust the volume up to 4 levels.

VOLUME Mode allows you to adjust the audio output level (up to 4 levels). If the target sound is too weak during outdoor treasure hunting, you can increase the volume. Different metals produce distinct sounds, aiding in their identification.

5.5 PP (Pinpoint) Mode

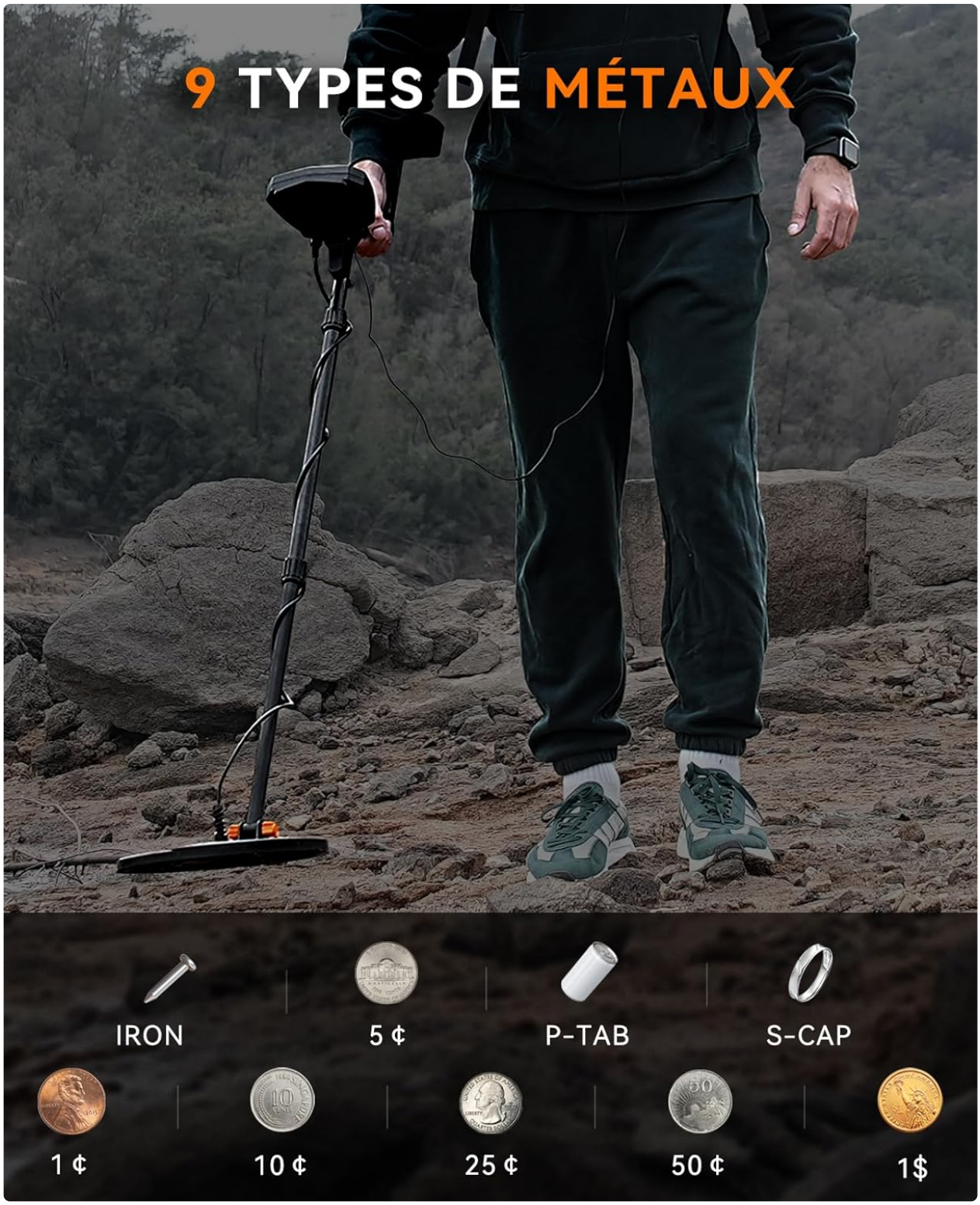
Once a target is detected, use PP Mode to precisely locate the metal within the detected area. This helps in minimizing the digging area and recovering the target efficiently.

When you locate a target during a search in a forest, on a beach, or in a yard, you can press the PP (Pinpoint) mode button to precisely locate the metal within that area, making recovery easier.

6. Basic Operation

6.1 Target Identification

The detector can identify 9 common types of metals, providing distinct indications for each. These include Iron, 1 cent, 5 cents, 10 cents, 25 cents, 50 cents, 1 USD, P-TAB (pull tab), and S-CAP (screw cap).



The detector can identify 9 common types of metals, providing distinct indications for each. These include Iron, 1 cent, 5 cents, 10 cents, 25 cents, 50 cents, 1 USD, P-TAB (pull tab), and S-CAP (screw cap).

The detector provides numerical target ID values to help identify detected metals. Refer to the table below for typical ranges:

The detector provides numerical target ID values to help identify detected metals. Iron typically ranges from 0-9, 5 cents from 10-19, P-TAB from 20-29, S-CAP from 30-39, 1 cent from 40-54, 10 cents from 55-64, 25 cents from 65-79, 50 cents from 80-89, and 1 USD from 90-99. These values assist in precisely locating desired metals.

6.2 Sensitivity Adjustment

The detection sensitivity can be adjusted across 8 levels. Higher sensitivity increases detection depth but may also increase susceptibility to interference. Adjust sensitivity using the '+' and '-' buttons.

In SENSITIVITY Mode, the detection sensitivity can be adjusted across 8 levels, significantly improving detection precision. If strong magnetic interference or circuit interference is present outdoors, you can reduce the sensitivity to minimize false signals.

6.3 Ground Balance

The advanced DSP chip includes ground balance functionality to reduce interference from mineralized ground, enhancing detection accuracy and depth.

Equipped with an advanced DSP (Digital Signal Processor) chip, the SUNPOW OTMD07 Metal Detector offers improved sensitivity, higher accuracy, and enhanced anti-interference capabilities, including ground balance functionality. This technology allows for a wider search range and detection depth up to 10 inches.

7. Detection Tips

7.1 Recommended Environments

The SUNPOW OTMD07 is versatile and suitable for various outdoor environments:

- **Gardens:** For finding lost items or historical artifacts.
- **Beaches:** Ideal for searching in sand and shallow water (coil only).
- **Forests:** Exploring wooded areas for hidden treasures.

- **Streams:** The waterproof coil allows for detection in shallow stream beds.

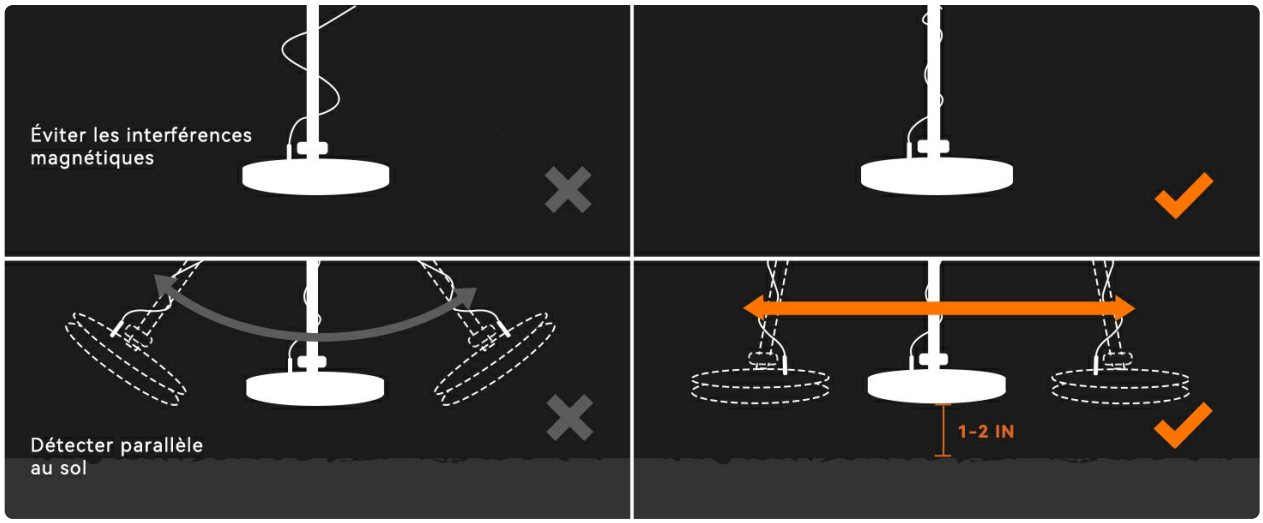
The SUNPOW OTMD07 Metal Detector is suitable for various outdoor detection environments, including gardens, beaches, forests, and streams, offering versatility for treasure hunting and metal detecting enthusiasts.

The SUNPOW OTMD07 features a 10-inch IP68 waterproof search coil, allowing for effective detection in shallow water environments like beaches or streams. Please note that the control box is not waterproof and should not be submerged.

7.2 Avoiding Interference

To ensure optimal performance and minimize false signals:

- Keep the search coil away from other metal objects during operation.
- Sweep the coil parallel to the ground, maintaining a consistent distance of 1-2 inches from the surface.
- Avoid swinging the coil like a pendulum, as this can lead to inaccurate readings.



To ensure optimal performance, avoid magnetic interference by keeping the search coil away from other metal objects. When sweeping, keep the coil parallel to the ground and maintain a consistent distance of 1-2 inches from the surface.

8. Maintenance

- After each use, wipe down the detector with a damp cloth to remove dirt and debris.
- Ensure the search coil is clean, especially after use in water or muddy conditions.
- Store the detector in a dry, cool place, away from direct sunlight and extreme temperatures.
- Remove batteries if the detector will not be used for an extended period to prevent leakage.
- Do not use abrasive cleaners or solvents on any part of the detector.

9. Troubleshooting

Problem	Possible Cause	Solution
No power	Dead or incorrectly inserted batteries	Replace batteries or ensure they are inserted with correct polarity.
False signals / erratic behavior	High sensitivity setting, electromagnetic interference, mineralized ground	Reduce sensitivity. Move away from power lines or other electronic devices. Perform ground balance if available.
No detection / weak signals	Low sensitivity setting, search coil not parallel to ground, deep target	Increase sensitivity. Ensure search coil is swept parallel to the ground at 1-2 inches height.
Control box not waterproof	Misunderstanding of IP68 rating	Only the search coil is IP68 waterproof. The control box must not be submerged in water.

10. Specifications

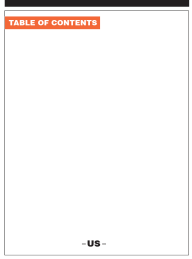
Feature	Detail
Model Number	OTMD07
Detection Depth	Up to 10 inches (25.4 cm)

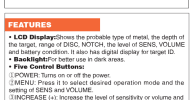
Feature	Detail
Search Coil	10-inch, IP68 Waterproof
Detection Modes	5 (ALL METAL, DISC, NOTCH, VOLUME, PINPOINT)
Target Identification	9 Metal Types, Numerical Target ID (0-99)
Display	HD LCD with Backlight
Adjustable Stem Length	36.2 to 47.2 inches (91.95 to 119.89 cm)
Power Source	Battery Powered
Material	Metal, Anti-interference Nylon
Product Dimensions (L x W x H)	49 x 7 x 135 cm (approximate assembled)
Item Weight	3.3 Kilograms
UPC	787439187112

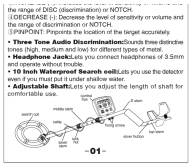
11. Warranty & Support

For warranty information and customer support, please refer to the documentation included with your purchase or contact SUNPOW customer service through the retailer's platform or the official SUNPOW website. Please retain your proof of purchase for any warranty claims.

Related Documents - OTMD07







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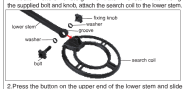
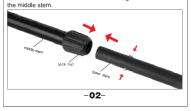
EASY ASSEMBLY

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.



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.



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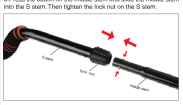
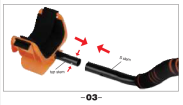
3.Press the button on the middle stem and slide the middle stem into the S stem. Then tighten the lock nut on the S stem.



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.



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

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.

• To disconnect the cable, pull out the plug. Do not pull on the cable.

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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 choose 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.

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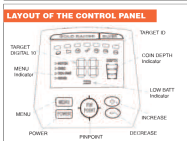
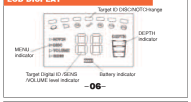
LAYOUT OF THE CONTROL PANEL



LCD DISPLAY



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1.Target ID indications

Metal range	IRON	GOLD RANGE				SILVER RANGE		
Target	Rusty nail	Foil	5c	Foil tab	1c	10c	25c	25c+
Tone	Low	Medium	Medium	Medium	Medium	High	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** 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

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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.

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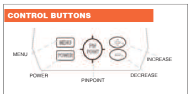
CONTROL BUTTONS



• 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(NTCH 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:

[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.

- A bottle cap (made of iron)
- A nickel(5c)
- A Gold Ring
- A quarter (25c)
- A Penny(1c)
- 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 MENU 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 Detection 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 displays or sounds without 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/ Environmental electromagnetic interference. 2.Sweeping the detector's search coil too fast or at wrong angle. 3.Using 2 detectors in close proximity.	1.Restore sensitivity. 2.Sweep the search coil more slowly and hold the detector level. 3.Make sure 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.Hold the search coil at an 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 target. 2.The detector can't identify the target. Sometimes, oxidized target will display more than one kind of target arrow and tone.	1.Reduce the sensitivity to prevent the detector of the disturbing. 2.Sweep the search coil with different angles.
No power, no sound.	1.There are cable 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 sunpow.service2019@outlook.com. OUR PROFESSIONAL REPRESENTATIVES AND ENGINEERS ARE HERE READY TO HELP.

Care and Maintenance

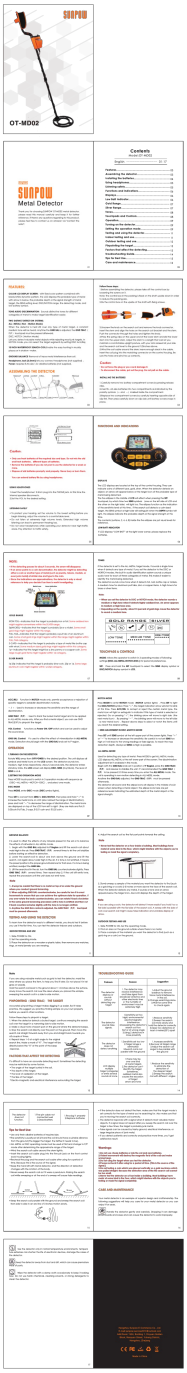
Our metal detector is an example of superior design and craftsmanship. The following suggestions will help you care for your metal detector so you can enjoy it for years.

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.

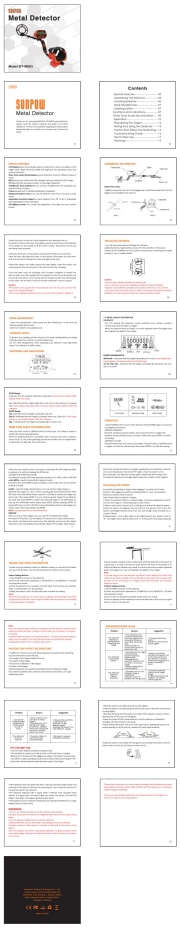
Keep the detector away from dust and dirt, which can cause premature wear of parts.

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.



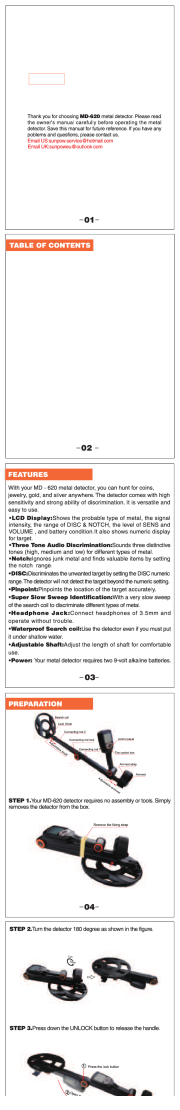
[SUNPOW OT-MD02 Metal Detector User Manual]

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



[SUNPOW 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.



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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 bury or burn them.

Cautions:

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.

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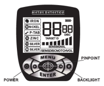
USING HEADPHONES

- 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 Safely

①To protect your hearing, set the volume to the lowest setting.
②Before you begin listening,adjust the volume to a comfortable level.
③Do not listen at extremely high volume levels.Extended high volume listening can lead to permanent hearing loss.
④Do 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.

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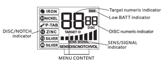
2.LCD DISPLAY



3.CONTROL BUTTONS

- **MENU:** Press MENU, LCD will display VOLUME, SENS, DISC, NOTCH.
- **VOLUME:** Press MENU to select VOLUME. Then press←or→to adjust the level (0-4) of VOLUME.The level will be displayed on the LCD.
- **SENS:** Press MENU to select SENS. Then press←or→ to adjust the level (2-8) 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←or→ 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←or→ 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.

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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
-5¢	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.

2.Types of target

-IRON: It indicates that the target is probably iron.
-5¢: It indicates that the target is probably 5¢ or a nickel. Some small 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.
-1¢: It is indicated that the target is probably a coin of 1¢ or type of metal of zinc alloy. Some medium sized gold rings might register within this category.
-10¢: It indicates that the target might be a coin of 10¢. Some large rough gold items might register within this category.
-25¢: It indicates that the target is probably 25¢ or a silver coin.

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3.Tones
The detector comes with three tones for different types of metal. But the built in audio 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, 5¢, same as for foil, bottle cap or nickels. A medium tone is for P-TAB, ZN, 1¢(aluminum pull tabs, zinc or copper items). A high tone is for 10¢,25¢,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:
①DISC:Press 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←or→to set the relative numeric range of DISC.
For example, the numeric target range for 5¢ is 11-25, you can simply press MENUS to select DISC, then press←or→to set the DISC number to "28". In this case, the numeric range is beyond 5¢.The detector will not have response to it. Neither will the detector have response to iron. Because the target numeric range for iron is 0-10.
②NOTCH:Press MENU to select NOTCH, then press←or→ to select the target to be notched. The cursor around the selected target will flash. Then press ENTER , the target will disappear.(If ENTER is not pressed within few seconds, the detector will enter standby state.) It means this target have been notched. If you want to pick up the target that notched, press ENTER again and the target will be shown.
Note:It is not recommended to notch all targets listed on the LCD. Because if you notch everything, you can't find anything.

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3.Press MENU to select SENS, then press← or→ 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 any metal, 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 coin more easily. Sweeping the side of the coin 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

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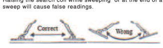
above the sound area.The detector sounds and the signal indicator on the LCD displays the level of signal. Then press PP button again to release the PP. Sweep the search coil again, keeping the same distance of search coil, sound disappears. Press PP button again, closer the search coil to the sound 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 and Use to set the operating mode.
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.



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- 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 inches motion 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 the detector does not detect the item, make sure that the mode is set correctly for the type of metal you're searching for. Also make sure that you're moving the search coil correctly.

Notes:

- 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.

Adjusting SENSITIVITY
After 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 it is turned on again.
When the machine is in the detection mode or is disturbed, the machine will turn on the self-protection function

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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

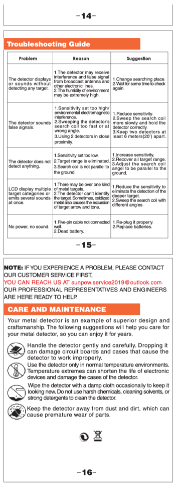
It's difficult to have an accurate detecting result. Sometimes the detecting may be restricted by some factors:

- **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.**
- **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.

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.



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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 angel 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.

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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

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.

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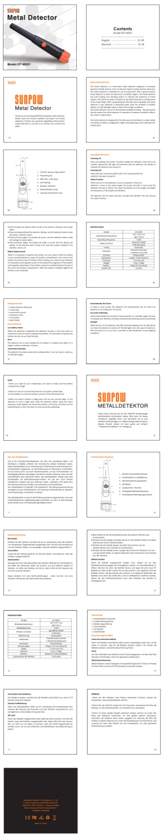

[SUNPOW OT-MD01 Metal Detector User Manual and Specifications]

Comprehensive user manual for the SUNPOW OT-MD01 pinpointer metal detector. Learn about its features, operating instructions, specifications, and maintenance.

	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.