

SUNPOW

Metal Detector



Model:OT-MD03

English

SUNPOW

Metal Detector

Thank you for choosing SUNPOW OT-MD03 metal detector, please read this manual carefully and keep it for further reference. If there's any questions regarding to this product, please feel free to contact us on amazon via "contact the seller"

01

SPECIAL FEATURES:

LCD Display:shows the probable type of metal with an arrow, the depth of the target, DISC range, the level of SENS with segment, the operating mode, and battery indication.

Three Tone Audio Discrimination:sounds distinctive tones for different types of metal.

DISC:ignores junk metal and finds valuable items by setting the DISC range.

P/P:pinpoints the accurate location of the target detected.

Headphone Jack (3.5mm):lets you connect headphones (not supplied) and operate without trouble.

Power:requires two 9V alkaline batteries(not supplied)

Waterproof Search coil:lets you use the detector even if you must put it under water.

Adjustable Humanly Design:the metal detector from 33" to 40, 6" Adjustable stem applicable to kids and adults.

LED lighting control: can control the brightness of the light and save battery power.

03

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

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

4.Wind the search coil cable around the stem tightly. Insert the search coil cable plug into the five pin jack on the front control box's housing.

5.Turn the stem's lock nut clockwise until it loosens. Lengthen or shorten the stem so when you stand upright with the detector in your hand, the search coil is level with and about 1/2 to 2 inches above the ground with your arm relaxed at your side. Turn the stem's lock nut counter-clockwise to lock it in place.

Caution:

•The search coil's plug fits into the connector only one way. Do not force the plug or you could damage it.

•Do not over tighten the search coil or use tools such as pliers to tighten it.

05

USING HEADPHONES:

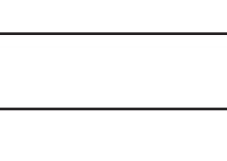
1.Insert the headphones' 3.5mm plug into the PHONE jack. At this time the internal speaker disconnects.

2.Set the VOLUME to the desired level.

LISTENING SAFELY:

To protect your hearing, set the volume to the lowest setting before you begin listening, adjust the volume to a comfortable level. Do not wear headphones while operating your detector near high-traffic areas. Pay attention to traffic safety.

FUNCTIONS AND INDICATIONS



07

GOLD Range

indicates that the target is probably a gold ring. Some bronze objects might register within this range.

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

SILVER Range

10¢—indicates that the target is probably 10¢ coin.

25¢/\$1—indicates that the target is probably silver coin, 25¢ or \$1. Some large aluminum coin might register within this category.

50¢—indicates that the target is probably 50¢ or a silver coin.

THREE TONE AUDIO DISCRIMINATION:

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

When the detector finds iron, nail, bottle caps, it sounds a low tone. A medium tone is for 5¢, 1¢, 10¢, some gold rings, aluminum pull tabs, zinc or copper items.

A high tone is for 25¢, 50¢, 1\$ or silver items.

09

4.Press the up or down button to increase or decrease the LED brightness after powering on or without pressing the SET button.

5.SETTING THE OPERATION MODE

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

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

b.DISC—Used for target discrimination. You can set the target range or eliminate the target you don't want by pressing SET and MODE buttons. Press SET twice, the blank frame flashes, press UP or DOWN to choose the target you don't want. Then press MODE. You can choose several targets to be eliminated.

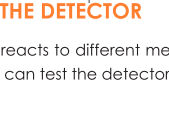
After that press ENTER to confirm the selected target to be eliminated. To pick up the eliminated items, simply press MODE before pressing ENTER. Or repress SET twice and UP or DOWN to move the flashing frame to the target you want to pick. Then press MODE and ENTER.

NOTE: A crossed frame is for item eliminated.

PINPOINT

After you find a metal object, you can use P/P to pinpoint the target. Hold down P/P button, LCD will display P/P and an icon of eye. Slowly move the search coil above the sound area. The detector sounds and the depth indicator on the LCD displays the probable depth of the target. Then release

11



TESTING AND USING THE DETECTOR

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

Indoor Testing and Use:

1.Press POWER to power on the detector.

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

3.Place the detector on a wooden or plastic table, then remove any watches, rings, or metal jewelry you are wearing.

4.Adjust the search coil so the flat part points towards the ceiling.

Note:

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

13

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 oxidation of the target.

•The Size of the target.

•Electromagnetic and electrical interference surrounding the target.

If you detect patiently and correctly and practice more times, you'll get satisfactory result.

15

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

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

Outdoor Testing and Use:

1.Press POWER to power on the detector.

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

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

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

14

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

2.Make a visual note of exact spot on the ground where the detector beeps.

3.Stop the search coil directly over this point on the ground. Then move the search coil straight forward away from you and straight back towards you a couple of times.

4.Repeat steps 1~3 at a right angle to the original search line. Make a mark of "X". The target will be directly below the "X" at the point of the beep response.

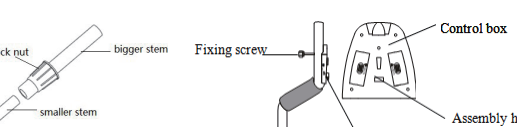
12

Contents

Special Features-----	03
Assembling The Detector-----	04
Installing Batteries-----	06
Using Headphones-----	07
Listening Safely-----	07
Functions And Indications-----	07
Three Tone Audio Discrimination-----	09
Operation-----	10
Pinpointing The Target-----	12
Testing And Using The Detector-----	13
Factors That Affect The Detecting--	15
Troubleshooting Guide-----	16
Tips for Best Use-----	17
Warnings-----	19

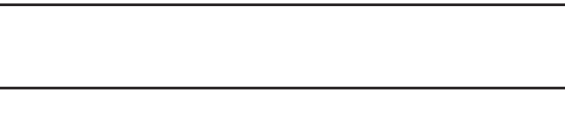
02

ASSEMBLING THE DETECTOR:



Follow these steps:

1.Slightly loosen the lock nut on the bigger stem. Insert the smaller stem into the bigger one and tighten the lock nut.



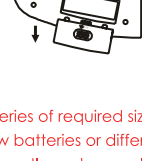
04

INSTALLING BATTERIES:

1.Turn off the power before installing the batteries.

2.Slide the left and right battery covers off in the direction of the arrow.

3.Place two 9V batteries into the battery compartment matching the polarity symbols (+ and -) marked inside.



Caution:

•Use only fresh alkaline batteries of required size.

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

•Dispose of old batteries promptly and properly. Never bury or burn them.

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

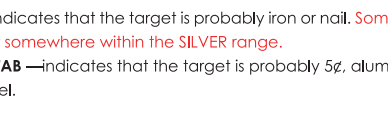
06

1.A QUICK LOOK AT THE DETECTOR

2.DISPLAYS

The LCD displays the detection mode, sensitivity level, battery condition, volume level and the depth of target.

When the detector finds an object, an arrow appears below the target icon. Also displays the depth of the target.



TARGET DENOMINATION

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

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

08

IRON	AL/ 5¢/ PULL TAB	GOLD/ BRONZE	SILVER
LOW TONE	MEDIUM TONE	HIGH TONE	

OPERATION:

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

2.SETTING SENSITIVITY

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

3.SETTING VOLUME

Press SET three times, the volume icon flashes. Press UP button or DOWN button to higher or lower the volume level. Then press ENTER to confirm the setting.

10

the button. Sweep the search coil again, keeping the same distance of search coil, sound disappears. Hold down P/P 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.

Pinpointing THE TARGET

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

Follow these steps to pinpoint a target.

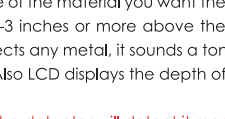
1.When the detector detects a buried target, continue sweeping the search coil over the target in a narrowing side-to-side motion.

2.Make a visual note of exact spot on the ground where the detector beeps.

3.Stop the search coil directly over this point on the ground. Then move the search coil straight forward away from you and straight back towards you a couple of times.

4.Repeat steps 1~3 at a right angle to the original search line. Make a mark of "X". The target will be directly below the "X" at the point of the beep response.

12



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

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

Outdoor Testing and Use:

1.Press POWER to power on the detector.

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

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

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

14

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 with the ground	1.Increase sensitivity 2.Recover all target range 3.Adjust the search coil angle to be parallel with the ground

16

Problem	Reason	Suggestion
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
The detector does not function.	1.Five-pin cable not connected well 2.Dead battery	1.Re-plug it properly 2.Replace batteries

TIPS FOR BEST USE:

•Use only fresh alkaline batteries of required size.

•The sensitivity is usually set at 3/4 and the coil should have a suitable distance from the ground (The bigger the target, the farther it needs to be).

•ALL METAL or DISC operating mode must be used at first and change to P/P mode after determining the approximate range of the target.

17

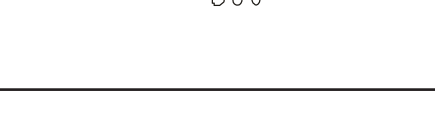
•Wind the search coil cable around the stem tightly.

•Insert the search coil cable plug into the five pin jack on the front control box's housing tightly.

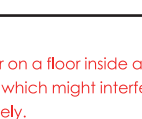
•Recheck the plug and the search coil cable after using for a period of time. Because this is the source of the signal.

•Keep the hand still with metal detector, and the direction of detection changes with the rotation of the body.

•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.



•Keep the search coil parallel with the ground and sweep the search coil from side to side in an arc line of 3 inches motion slowly.



18

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

•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.

WARNINGS:

1.Do not use cheap batteries or mix the old and new batteries.

2.Violent movement will destroy the magnetic field of the coil and make wrong beep.

3.Do not cling the target when you test the detector.

4.Press ENTER after you set the mode or the setting would be invalid.

5.Please recheck it after using for a period of time.(This is the source of the signal.)

6.Do not testing a coin which was placed vertically or a gold necklace which was pulled straight. Because the detection area of the lead search coil cannot be too small.

19

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

If you have any problems during the use, please contact us and give us a chance to help you solve the problem.

20

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, Zhejiang



Made in China