

01 SMD-04A INTRODUCTION--02 ASSEMBLING THE DETECTOR --03 CONTROL PANEL - LCD DISPLAY---- CONTROL BUTTONS-04 SEARCH MODES -- A/M (ALL METAL) Mode-- DISC (DISCRIMINATION) Mode--• MEMORY Mode---- JEWELRY Mode---• PP Mode-----05 ADJUST SENSITIVITY LEVEL --06 PINPOINT (PP) ---**07** OPERATION ---- Target Indications----**08** FACTORS THAT AFFECT THE DETECTING -----13-14 Troubleshooting Guide----

Thanks for choosing our metal detector. With this metal detector, you can hunt for coins, relics, jewelry, gold, and silver just about anywhere. The detector comes with high sensitivity and strong ability of discrimination. It is versatile and easy to use.

THE DETECTOR'S FEATURES INCLUDE:

LCD Display: Shows the probable type of metal. the depth of the target, range of DISC, the level of SENS, and battery condition. It also has digital display for target ID.

Three Tone Audio Discrimination: Sounds three distinctive tones (high, medium and low) for different types of metal.

Seven Controls:

• POWER: Turns on or off the power. • VOLUME/BACKLIGHT: Short press for adjusting volume level. Press it

for about 2 seconds to turn on the backlight. • MODE: Press it to select desired operation mode. There are four modes to be selected from MODE indicator on LCD. • INCREASE (+): To increase the level of volume, sensitivity and the range

of discrimination working with VOLUME, SENS and DISC. • DECREASE (-): To decrease the level of volume, sensitivity and the range of discrimination working with VOLUME, SENS and DISC. • SENS: Adjusts the level of sensitivity working with"+" or"-" control

• PP: Pinpoints the location of the target accurately.

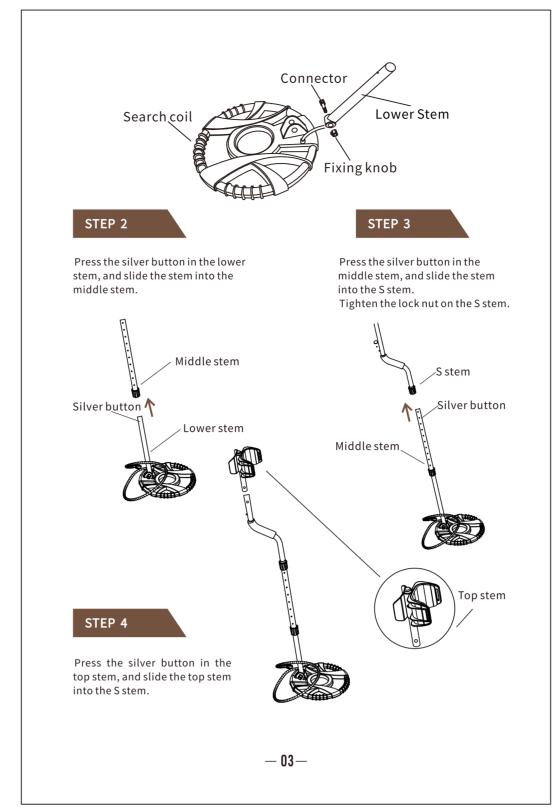
Headphone Jack: Lets you connect headphones of 1/8" (3.Smm) and operate without trouble.

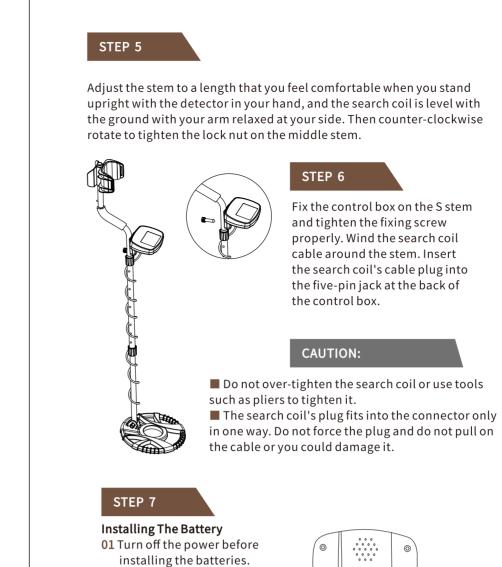
10 inch Waterproof Search coil: lets you use the detector even if you must put it under shallow water.

Adjustable Shaft: Lets you adjust the length of shaft for comfortable

Power: The detector requires two 9-volt alkaline batteries (not incl.).

SSEMBLING THE DETECTOR • You can watch the assembly and operation video on the Amazon product page Search "Suffla" on Facebook to join our Public Homepage, you can also watch the assembly and operation video and exchange treasure hunting skills with other buyers in the page. If you have any questions about our products and need to consult, you can contact our after-sales email: support@suffla.com Assembling your detector is easy and requires no special tools. JST FOLLOW THESE STEPS: Middle stem Lowerstem (7) Control box Unscrew the fixing knob on the search coil and remove the knob connector. **Place the** washers into the groove of the lower stem. Then insert the stem and align the holes on the search coil bracket and the stem. Push the connector through the holes and tighten the knob.





02 Slide the battery cover off in the

03 Place two 9V alkaline batteries

into the battery compartment

matching the polarity symbols

direction of the arrow.

(+ and -) marked inside.

Note: The detector will maintain full performance until the batteries need to be replaced. Replace batteries when there is no segment remaining on battery level indicator. Alkaline batteries should be used

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

• Use only fresh alkaline batteries of required size. • Do not mix the old and new batteries or different types of batteries. • If you don't plan to use the detector for a week or more time, remove the batteries. Batteries can leak chemicals that can destroy electronic parts.

Stand and Stretch your arm, holding the metal detector to make the search coil above the ground for about 1 to 2 inches.

NG HEADPHONES

01 It is recommended to choose the headphones with volume control. **02** Insert the headphones' 1/8"(3.5mm) plug into the headphone jack at the bottom of the control box. At this time the internal speaker disconnects.

In dark area, you can use BACKLIGHT for better searching. Press VOLUME/BACKLIGHT button for about 2 seconds to turn on the backlight. long press it again to turn the light off.

01 To save power, the batklight will turn off automatically after 10 minutes. **02** As the light consumes more power, it's better to turn off the backlight in normal environment

indicator Control button MODE INCREASE / PINPOINT DECREASE Control button Control button Control button Control button 01 LCD DISPLAY indicator level indicator indicator

2 CONTROL BUTTONS

POWER: Press the button to power on the detector. Press it again to power off **VOLUME/BACKLIGHT:** Short press for adjusting volume level. Press it for about 2 seconds to turn on the backlight. Long press again to turn off the backlight.

Note: As the backlight consumes more power, it's better to turn off it in light

MODE: There are four modes to be selected from MODE indicator on LCD.

SENS: Used to adjust sensitivity level. Press SENS, then press + or -button to ncrease or decrease the sensitivity. The level will be displayed on the LCD.

working with SENS and DISC. **DECREASE (-):** To decrease the level of sensitivity and the range of discrimination working with SENS and DISC.

INCREASE (+): To increase the level of sensitivity and the range of discrimination

PP: Pinpoints the location of the target accurately.

SEARCH MODES

The detector includes four search modes: A/M (ALL METAL), DISC (DISCRIMINATION), MEMORY JEWELRY. Select the mode that suits the targets you hope to find.

01 A/M (ALL METAL) MODE

This mode is designed to detect all types of Press MODE to select **A-M** (ALL METAL) mode. **A-M** is displayed on LCD. This means ALL METAL mode is selected. You can detect all kinds of metal.



target icon(s) will be displayed again on **LCD**.

mode is selected. B Press "+" to eliminate the unwanted target(s) in sequence from left to

or 25 cent can't be eliminated. Because they are valuable. C To pick up the eliminated target ID, simply press and the recovered



03 MEMORY MODE

The detector is designed to detect the only memorized metal target. **MEMORY** mode is selected.

This mode is designed to detect the only memorized metal target. For example, if you want to find Icent coin, sweep a sample of Icent over the search coil. The detector will memorize the target. LCD only displays the memorized target icon and other target icons will be removed. In this case the detector will only detect Icent coin and will have no response to other metal targets.

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02 DISC (DISCRIMINATION) MODE

The DISC mode can eliminate the unwanted metal targets and works with

A Press **MODE** to select **DISC**. DISC is displayed on **LCD**. This means DISC

right. The eliminated target icon(s) will disappear on LCD. The detector will not detect such target(s). User can select several targets to be eliminated by using **DISC** mode. But silver target such as one dollar coin

Press MODE to select MEMORY. MEMORY is displayed on LCD. This means

04 JEWELRY MODE

This does not mean that the detector will search only for jewelry while in JEWELRY Mode. It simply indicates that the discrimination pattern is optimized for locating most jewelry items. The **JEWELRY** mode will still find coins, relics and other non-jewelry items. It ignores most nails and small iron pieces automatically.



01 Press PP button, "PP" on LCD flashes. When LCD displays steady "PP", you can start to move the search coil slowly above the sound area. If the detector finds the target, it sounds a tone. Also the digital value of the target and depth are displayed on LCD.

02 Press **PP** button again. After steady **"PP"** displays, sweep the search

keeping the same distance of search coil, sound disappears. Closer the search coil to the sound area, the detector sounds again.

Repeat the above steps until the detector displays the constant signal where the location of the target is.

DJUST SENSITIVITY LEVEL

Setting the correct sensitivity level for individual detecting conditions will maximize the detection depth. It also helps to reduce interference Press **SENS**, then + or-to increase or decrease the sensitivity.

The metal detector are highly sensitive and have adjustable sensitivity.

 $01 \\ \begin{tabular}{l} Hold the coil stationary, then use the Sensitivity Plus button to increase the sensitivity until false signals begin to occur. \\ \end{tabular}$

Reduce the sensitivity level by pressing the Sensitivity Minus button, just enough that the false signals disappear.

Sweep the coil over a clear patch of ground, and reduce the Sensitivity Level further if any ground noise is encountered.

After you find a metal object, you can use **PP** to pinpoint the target.

RESS PP BUTTON

"PP" on LCD flashes. When LCD displays steady "PP", you can start to move the search coil slowly above the sound area. If the detector finds the target, it sounds a tone. Also the digital value of the target and depth are displayed on **LCD**.

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PRESS PP BUTTON AGAIN

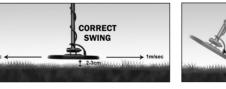
After steady "**PP**" displays, sweep the search coil, keeping the same distance of search coil, sound disappears. Closer the search coil to the sound area, the detector sounds again.

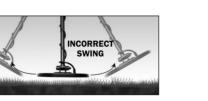
Repeat the above steps until the detector displays the constant signal where the location of the target is.

OPERATION

Hold the search coil level to the ground about 1~2 inches above the surface, slowly move the search coil over the area where you placed the sample, sweeping the search coil in a side-to-side motion.

Never sweep the search coil as if it were a pendulum. Raising the search Old coil while sweeping or at the end of a sweep will cause false readings.





2 Sweep slowly, hurrying will cause you to miss targets.

1t'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 target icon flashes. Also LCD displays the digital value of target as well as the

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.

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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.normal







Target	Iron	5 cent Nickel Jewelry	Pull tab Jewelry	1cent/zinc S-caps Jewelry	10 cent Copper coin	25 cent Silver coin
Tone	Low	Low	Medium	Medium	High	High
ID Display		8			\$	(\$) (Silver)
Digital value	10-40	41-50	55-70	72-75	80-83	86-88

■ The detector responds with a signal when it detects most valuable until unearthed. This table is for general reference only.

environment.







TARGET INDICATIONS

Target	Iron	Nickel Jewelry	Pull tab Jewelry	1cent/zinc S-caps Jewelry	Copper coin	Silver coin
Tone	Low	Low	Medium	Medium	High	High
ID Display		(Sol				(Silver)
Digital value	10-40	41-50	55-70	72-75	80-83	86-88

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There is a wide variety of metals and no target can be identified for certain

FACTORS THAT AFFECT THE DETECTING

1 The angle of the target buried in the soil.

03 The level of oxidization of the target.

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

02 The depth of the target.

04 The size of the target.

05 Electro-magnetic and electrical interference surrounding the target.

In 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. Meantime enhance the distance between the search coil and the ground.

Metallic digging tools will also affect the detection if they are near the search coil. So it's better place them a little far away.

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1.The detector may receive interference and false signal The detector from broadcast antenna and 2.Wait for some time to displays or sounds other electronic lines check again without detecting any 2.The humidity of environment may be target extremely high 1.Reduce sensitivity environmental electromagnetic interference 2.Sweep the search coil The detector sounds false 2. Sweeping the detector's more slowly and hold the search coil too fast or at wrong detector correctly signals. 3. Keep two detectors at 3.Using 2 detectors in close least 6 meters (20') apart L.lncrease sensitivity 1.Sensitivity set too low 2. Recover all target range **The detector does not** 2. Target range is eliminated 3. Adjust the search coil 3. Search coil is not parallel to angel to be parallel to the detect anything the ground .There may be over one kind LCD display multiple of metal targets 1.Reduce the sensitivity to target categories or emits 2. The detector can't identify eliminate the detection of several sounds at once the target. Sometimes, oxidized metal also causes the 2. Sweep the search coil excursion of target arrow and with different angles Five-pin cable not connected 1.Re-plugit properly The detector does not 2.Replace batteries function. 2.Dead battery

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