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METAL DETECTOR

MODEL:TS185

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METAL DETECTOR

MODEL:TS185



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INTRODUCTION

This instrument is a multifunctional, high-sensitivity metal detector designed to detect various kinds of underground metal objects.

Main Features:

- Control panel with easy-to-press buttons
- •Two kinds of selectable detection modes All Metals Mode and Discrimination Mode
- •Digital target ID and target ID cursor help operator determine the probable metal type of the target
- •Ground balance adjustment with the ground balance setting (-99 \sim +99) displayed
- ·Adjustable sensitivity with a bar-graph display
- Target depth indication
- •Audio alarm. There are 6 kinds of alarm tones in Discrimination Mode.
- •4 preset Discrimination Modes and 1 custom Discrimination Mode
- Target pinpointing

- Battery level indication
- Waterproof design
- •A built-in wireless transmitter that allows the metal detector to wirelessly connect to a Bluetooth headset

TECHNICAL SPECIFICATION

Maximum Detection Distance: About 12 inches for a US 25-cent coin in

the ALL METALS mode

Operating Environment: Temperature: 0°C ~ 50°C

Relative Humidity: 85%

Storage Environment: Temperature: -20°C ~ 50°C

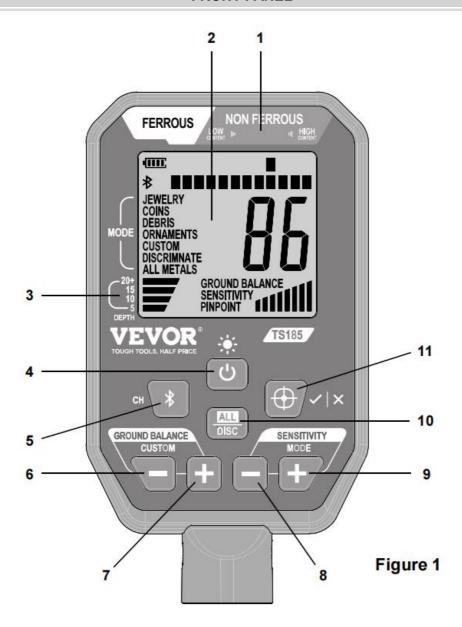
Relative Humidity: 85%

IP Degree: IP68

Battery: NiMH battery or 1.5V alkaline battery, AA or equivalent, 4 pieces

Weight: About 1.6kg (including battery)

FRONT PANEL



1. Target ID Legend

Works with the Target ID Cursor to indicate the probable metal type of the detected metallic object.

2. Display

3. Depth Scale

This depth scale is to be used in conjunction with the displayed target depth indicator bar for target depth prediction.

4. "U" Button

Press this " " button to turn on the metal detector. To turn off the metal detector, press and hold down this button for about 2 secs until the display shows "OFF".

When the metal detector is on, briefly press this button to turn on or off the backlight.

5. "* Button

Press this "* button to pair the metal detector to a Bluetooth headset which is within range.

Press and hold down this button for about 3 secs to switch the detector between channel 0 and channel 1.

6. GROUND BALANCE (-) Button / CUSTOM (-) Button

In All Metals Mode, this GROUND BALANCE (-) button is used in ground balance adjustment.

In CUSTOM mode, which is one of the five Discrimination Modes (JEWELRY mode, COINS mode, DEBRIS mode, ORNAMENTS mode, CUSTOM mode), this button is called CUSTOM (-) button, which is used to move the target ID cursor leftwards to a desired position in order to create a desired discrimination pattern.

7. GROUND BALANCE (+) Button / CUSTOM (+) Button

In All Metals Mode, this GROUND BALANCE (+) button is used in ground balance adjustment.

In CUSTOM mode, this button is called CUSTOM (+) button, which is used to move the target ID cursor rightwards to a desired position in order to create a desired discrimination pattern.

8. SENSITIVITY (-) Button / MODE (-) Button

In All Metals Mode, this SENSITIVITY (-) button is used to decrease the detector's sensitivity.

In any Discrimination Mode, this button is called MODE (-) button, which is used to switch among the five Discrimination Modes.

9. SENSITIVITY (+) Button / MODE (+) Button

In All Metals Mode, this SENSITIVITY (+) button is used to increase the detector's sensitivity.

In any Discrimination Mode, this button is called MODE (+) button, which is used to switch among the five Discrimination Modes.

10. "DISC" Button

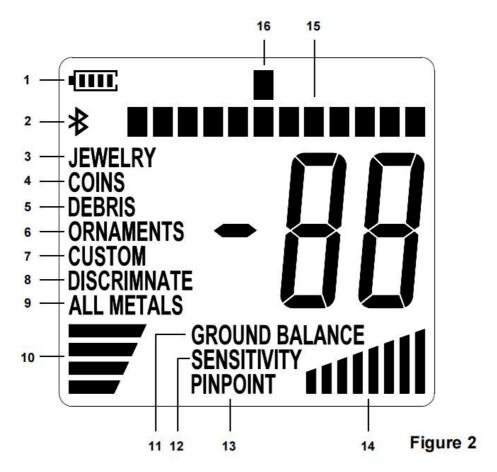
Press this "DISC" button to switch between the All Metals Mode and a Discrimination Mode.

11. " Button

In All Metals Mode, this " button is used to pinpoint a detected metallic object.

In CUSTOM mode, this button is used to eliminate or activate the pixel located on the horizontal scale, directly below the Target ID Cursor.

UNDERSTANDING THE DISPLAY



Explanations:

- 1. Battery level indicator.
- 2. **..... Bluetooth icon.

A flashing Bluetooth icon indicates that the detector is searching for a Bluetooth headset.

A steady Bluetooth icon indicates that the detector is paired and wirelessly connected with an operating.

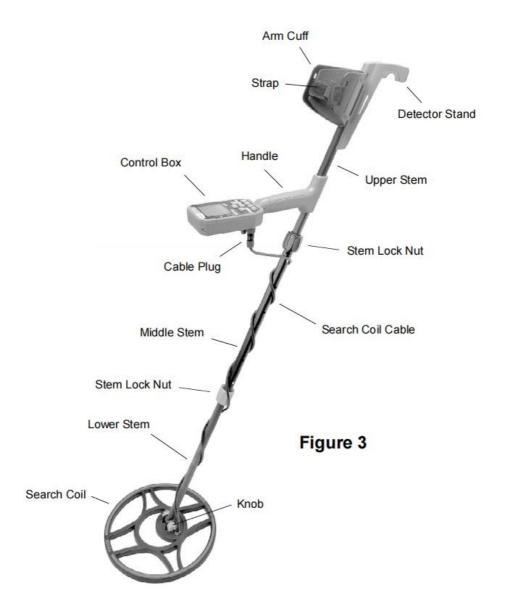
Bluetooth headset that is within range.

3. **JEWELRY** The detector is in JEWELRY mode.

4. COINS The detector is in COINS mode.
5. DEBRIS The detector is in DEBRIS mode.
6. ORNAMENTS The detector is in ORNAMENTS mode.
7. CUSTOM The detector is in CUSTOM mode.
8. DISCRIMNATE The detector is in a Discrimination Mode.
9. ALL METALS The detector is in All Metals Mode.
10. Target depth indicator bars.
11. GROUND BALANCE The detector is in ground balance adjustment mode.
12. SENSITIVITY The detector is in sensitivity adjustment mode.
13. PINPOINT The detector is in PINPOINT mode.
14. Sensitivity indicator bars.
15. Horizontal scale that shows the
current discrimination pattern, with lighted pixels indicating accepted targets and blank pixels indicating rejected targets.
16. Target ID cursor.

STRUCTURE / ASSEMBLY INSTRUCTION

Overall Structure



Upper Part Structure

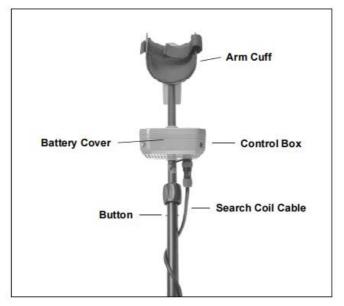


Figure 4. Front View of the Upper Part of the Detector

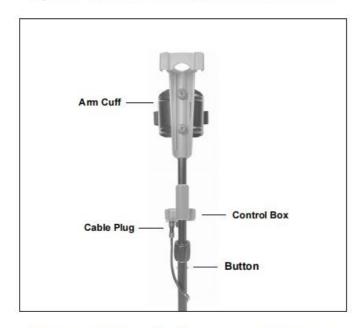
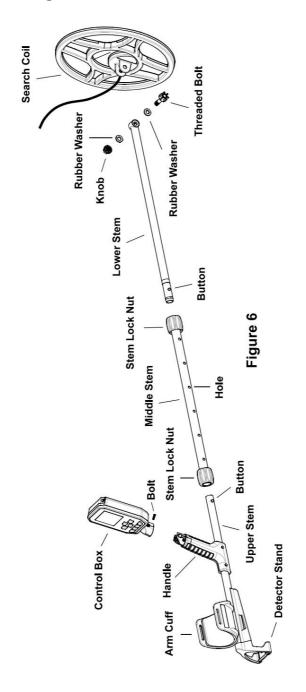


Figure 5. Back View of the Upper Part of the Detector

Assembly Drawing



Note:

- 1. The two rubber washers are to be placed in the two circular slots at the two sides of the end of the lower stem.
- 2.Gently turn the relevant stem lock nut on the middle stem in proper direction to fasten the lower stem only after the lower stem is inserted into the middle stem and the two buttons on the lower stem pop into desired holes on the middle stem.

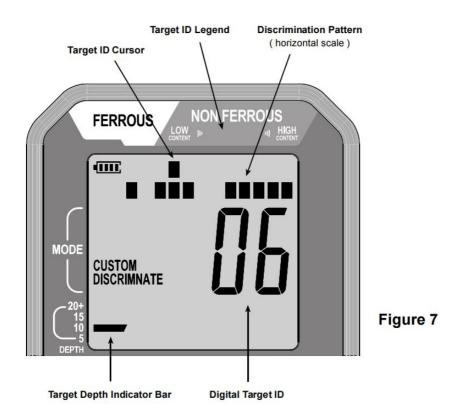
Similarly, gently turn the relevant stem lock nut on the middle stem in proper direction to fasten the upper stem only after the upper stem is inserted into the middle stem and the two buttons on the upper stem pop into desired holes on the middle stem.

- 3.After you join the control box to the handle, remember to use the bolt to fix the control box.
- 4.Before connecting the cable plug to the socket on the bottom of the control box, you must align the white spot on the plug with the white spot on the socket.
- 5. To avoid damage, do not pull cable or cable plug with force or turn the cable plug with force.

How to adjust the length of the detector:

- 1. Gently and counterclockwise turn the lower stem lock nut until it loosens.
- 2. Depress the two lower buttons on the middle stem, and adjust the lower stem's position until the two buttons pop into the desired holes on the middle stem. (**Tip:** To be able to adjust the lower stem's position, it may be necessary to further insert the lower stem into the middle stem a little and then turn the lower stem a little while depressing the two buttons.)
- 3. Turn the stem lock nut clockwise until the lower stem is secured.

TARGET INFORMATION



Target ID Legend

The Target ID Legend functions with the Target ID Cursor to indicate the probable metal type of the target, with ferrous (iron) targets at the left, non-ferrous targets which are thin or have low conductivity in the middle, and thick or high conductivity targets at the right.

Horizontal Scale

The horizontal scale shows the present discrimination pattern, with lighted pixels indicating accepted targets and blank pixels indicating rejected targets.

Target ID Cursor

When the detector detects a target, a Target ID Cursor will display for this target if the metal signal is strong enough; but the detector will produce audible signal only for targets accepted on the horizontal scale and will probably not produce audible signal for objects rejected on the horizontal scale.

Digital Target ID

Provides a two-digit number to identify target more precisely than the Target ID Cursor.

Target ID can vary widely based on the target's size and thickness because small, thin pieces of metal can not conduct electric current as well as thicker pieces of metal. Moreover, mineralized soils can cause Target ID errors, especially for small targets.

Note:

Soil mineralization reaction can be eliminated most efficiently when the target is centered under the search coil and the search coil is swept flat and at a constant height above the ground. After the detector detects a target, you can perform detection on this target several times and discard wrong Target ID readings obtained and take only correct Target ID readings. The smaller the indicated depth of burial, the stronger the detected metal signal, and the more reliable the Target ID reading.

Category Value

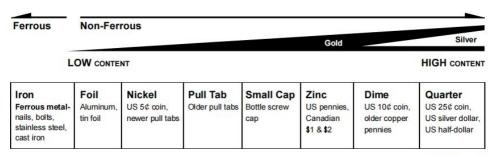


Figure 8

Note:

Silver and Gold can be in multiple spectrums.

The above table lists the metal objects sequentially based on their conductivities. Do not relate these metal objects to the pixels on the horizontal scale directly.

When the detected metal signal is strong enough, a target ID cursor will appear in a certain position to indicate the probable metal type (or category) of the detected metallic object. According to the position of the target ID cursor, you can predict the probable metal type (or category) of the detected object by referring to Figure 8 and the Target ID Legend (see Figure 7) above the target ID cursor. Figure 8 is essentially similar to the Target ID Legend but the information contained in Figure 8 is expressed using words and is far more detailed than the information contained on the Target ID Legend. You can use Figure 8 in conjunction with the target ID cursor like you use the Target ID Legend.

Coins will most likely have a similar value with each pass with the search coil due to their round shape. Gold and silver can actually be detected in various category values due to their metallic qualities. Smaller gold or silver objects will have a value different from that of a larger gold or silver object. Trash objects can give off a different value each time the search coil passes over it. The angle of the detector can also affect the identification of

an object. If you decide to test the detector by passing a coin across the search coil, pass it with its flat side parallel to the search coil; this position is how you will find most buried coins.

Figure 9 shows an example display shown when the metal detector detects a US 25-cent coin buried about 10cm below ground surface.

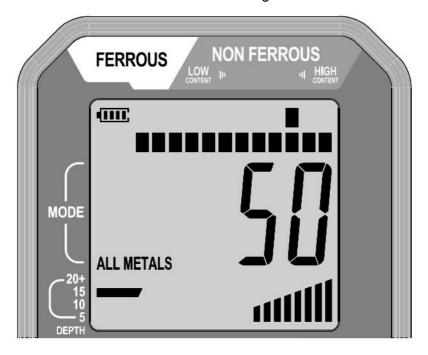


Figure 9

DETECTING METALLIC OBJECTS

DETECTING METALLIC OBJECTS IN THE ALL METALS MODE

The All Metals Mode allows the detector to achieve the maximum detection depth possible.

Press the "U" button to turn on the metal detector. To select the All Metals

Mode, press the " button until the symbol "ALL METALS" appears on display.

1. Adjust the Sensitivity

Hold the detector by its handle. Lift and adjust the search coil so that the search coil is about 50cm above and parallel to the ground. The detector sensitivity is adjusted via the SENSITIVITY (+) button and the SENSITIVITY (-) button, and the number of the displayed sensitivity indicator bars graphically indicates the present sensitivity. Press the SENSITIVITY (+) button or the SENSITIVITY (-) button until a faint sound from the detector is heard.

2. Perform Ground Balance Adjustment

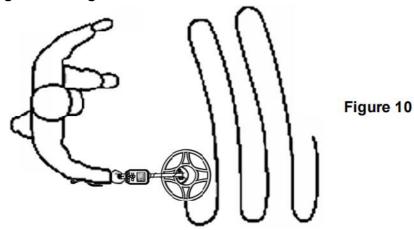
To cancel out the minerals in the soil, you must perform ground balance adjustment before you start scanning in the All Metals Mode in a site.

Use the following procedure to perform ground balance adjustment:

- 1. Hold the detector and move it to a place where there is no metallic object in the ground under the search coil.
- 2. Lift and adjust the search coil so that the search coil is about 50cm above and parallel to the ground.
- 3. Press the GROUND BALANCE (+) button or the GROUND BALANCE (-) button once. The symbol "GROUND BALANCE" appears on display, and the ground balance setting (which is in the range of -99 to +99) is shown on display.

- 4. Lower the search coil to approximately 5cm to 8cm above ground. If the sound from the detector increases when the search coil is lowered to ground, raise the search coil to about 50cm above ground, and then press the GROUND BALANCE (-) button to decrease the ground balance setting. If the sound from the detector decreases when the search coil is lowered to ground, raise the search coil to about 50cm above ground, and then press the GROUND BALANCE (+) button to increase the ground balance setting. **Tip:** Pressing and holding down the GROUND BALANCE (+) button or GROUND BALANCE (-) button will increase or decrease the ground balance setting quickly.
- 5. Repeat step 4 until the sound from the detector remains approximately unchanged when you lower and lift the search coil. Now the ground balance adjustment is completed.

3. Begin Scanning



After you have completed the sensitivity adjustment and then the ground balance adjustment, you can start to scan for metallic objects or targets. During scanning, keep the search coil height approximately 5cm to 10cm above and parallel to the ground at all times for best detection results, walk slowly as you scan slowly the search coil in a straight line from side to side.

When the detector detects a metallic object, a target ID cursor will appear

in a certain position to indicate the probable metal type of the object being detected and a digital target ID, which is a two-digit number, will be shown on display if the strength of the detected metal signal exceeds the detector's identification threshold, and at the same time, and if the target is accepted by a lighted pixel on the horizontal scale, the sound from the detector will increase.

Because many factors (degree of oxidation of metallic object, metal impurities in soil, soil moisture content, size and metal content of the object, depth, etc) can affect the target ID cursor indication and digital target ID, the target ID cursor indication and digital target ID are not accurate and are only for non-critical reference. The target ID cursor indication and digital target ID are not guaranteed to be correct.

When the detected metal signal is strong enough, the display will show a target depth indicator bar, which is to be used in conjunction with the depth scale for you to predict the distance between the detected object and the search coil. Because many factors can affect the indication of target depth indicator bar, the indication of the target depth indicator bar is not accurate and is not guaranteed to be correct. It is only for non-critical reference.

During scanning, the search coil must be in motion. If the search coil is still, the detector can not detect metal normally.

4. Pinpoint a Detected Metallic Object

After you detect a metallic object, you can use the Pinpoint function to pinpoint this object. Precisely pinpointing an object allows you to quickly recover the ground because of the smallest digging hole possible.

Use the following procedure to pinpoint a target:

1. Move the search coil around the detected metallic object to determine the approximate location of this object.

Then move the search coil to this location, and then hold the search coil in this location and above the detected object.

- 2. Press and hold down the "\overline{O}" button. The display shows the symbol "PINPOINT" and all the 8 sensitivity indicator bars.
- 3. Release the "" button and then immediately (within 1 sec after the release of the button) hold down the button gain. The number of the displayed sensitivity indicator bars decreases by 1, and the sound volume of the detector decreases accordingly.
- 4. Move the search coil a little distance toward the metal signal source (the detected object) according to the volume of the sound. The sound volume of the detector increases as the search coil approaches the metal signal source (the detected object).
- 5. Repeat step 3 and 4 to approach the target progressively. And in the end, the target can be pinpointed.

Note:

The detector exits the PINPOINT mode automatically about 3 secs later after you release the "\overline{O}" button.

DETECTING METALLIC OBJECTS IN A DISCRIMINATION MODE

If you want to detect a specific type (or kind) of metallic objects while largely ignoring other types of metallic objects during scanning, you should select a suitable Discrimination Mode. There are 5 Discrimination Modes in total, they are JEWELRY mode, COINS mode, DEBRIS mode, ORNAMENTS mode, and CUSTOM mode. You can select any of these modes to meet your need.

The detector has 12 pixels or "notches" of discrimination, shown on the horizontal scale (see Figures 2 and 7). In any Discrimination Mode, the detected target which is accepted by a lighted pixel on the horizontal scale will cause an increase in sound, and the targets which are rejected by a blank pixel on the horizontal scale will probably not cause an increase in sound.

Among these modes, the JEWELRY mode, COINS mode, DEBRIS mode, ORNAMENTS mode are preset and can not be modified, but in CUSTOM mode, you can modify the present discrimination pattern freely to create a desired discrimination pattern to better meet your need.

To select a desired Discrimination Mode, first make sure that the detector is in a Discrimination Mode. If the detector is in the All Metals Mode ("ALL

METALS" is displayed), press the "DISC" button until the symbol "DISCRIMNATE" appears on display. Then press the MODE (+) button or the MODE (-) button to select among the 5 Discrimination Modes. Whenever a mode is selected, the display will show the corresponding mode indicator (see Figure 2) to indicate the presently selected mode.

The five Discrimination Modes are explained as follows:

JEWELRY Mode

Designed to find jewelry such as rings, watches, bracelets, and necklaces, while ignoring most iron trash.

COINS Mode

The COINS mode is designed to find US coins and similar coins and eliminate common trash items such as iron and foil. Be aware that medium-sized jewelry may be missed with this discrimination pattern and that some junk targets (such as aluminum cans) may be detected and cause an increase in sound.

DEBRIS Mode

The DEBRIS mode is designed to detect debris while eliminating (ignoring) small iron pieces.

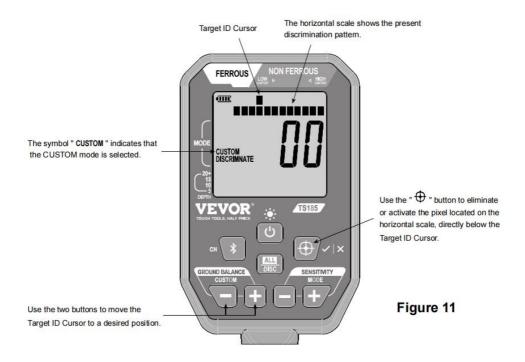
ORNAMENTS Mode

The ORNAMENTS mode is designed to detect most kinds of metallic ornaments.

CUSTOM Mode

The detector has 12 pixels or "notches" of discrimination, shown on the horizontal scale. The CUSTOM mode allows you to modify the present discrimination pattern freely and create a desired discrimination pattern. To do it, first make sure that the detector is in the CUSTOM mode and that the search coil is far away from any metallic object and inference source. Then press the CUSTOM (+) button or the CUSTOM (-) button to move the Target ID Cursor to the right or left until it is in the desired position. And

then press the "\(\theta\)" button to eliminate or activate the pixel located on the horizontal scale, directly below the Target ID Cursor. (See Figures 11 and 12.)



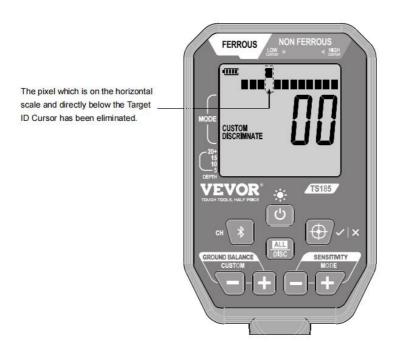


Figure 12

After you have selected a desired Discrimination Mode or created a desired discrimination pattern in the CUSTOM mode, you can start to scan for metallic objects or targets. The scanning method is the same as that in the All Metals Mode.

When the detector detects a metallic object, a target ID cursor will appear in a certain position to indicate the probable metal type of the object being detected and a digital target ID, which is a two-digit number, will be shown on the display if the strength of the detected metal signal exceeds the detector's identification threshold, and at the same time, if the target is accepted by a lighted pixel on the horizontal scale, the detector will sound beep(s).

Because many factors (degree of oxidation of metallic object, metal impurities in soil, soil moisture content, size and metal content of the object, depth, etc.) can affect the target ID cursor indication and digital target ID,

the target ID cursor indication and digital target ID are not accurate and are only for non-critical reference. The target ID cursor indication and digital target ID are not guaranteed to be correct.

When the detected metal signal is strong enough, the display will show a target depth indicator bar, which is to be used in conjunction with the depth scale for you to predict the distance between the detected object and the search coil. The indication of the target depth indicator bar is not accurate and is not guaranteed to be correct. It is only for non-critical reference.

During scanning, the search coil must be in motion. If the search coil is still, the detector can not detect metal normally.

6-FREQUENCY AUDIO ALARM FUNCTION

In any Discrimination Mode, the detector can produce 6 kinds of alarm tones for different types of metal objects, which is intended to help operator identify the probable metal type of the detected object. For a specific detected object which is accepted by a lighted pixel on the horizontal scale, the detector will produce a specific tone.

USING THE BACKLIGHT

When using the detector in a dim environment, you can turn on the backlight for easy operation. To turn on or off the backlight, briefly press the

"U" button when the detector is on.

CHANGING THE OPERATING CHANNEL OF THE DETECTOR

When there are two same metal detectors operating on the same site, you can set them to two different operating channels to avoid crosstalk (interference) between them.

When the detector is turned on, it defaults to channel 0. You can press and hold down the ""> " button for about 3 secs to switch the detector between channel 0 and channel 1; the display will briefly indicate the presently selected channel.

USING THE BLUETOOTH HEADSET

The detector can work with a Bluetooth headset. When the detector is turned on, it starts to search for the Bluetooth headset to which it has been

paired, and the icon "* "flashes on display as an indication. If the Bluetooth headset to be used has been turned on and is in pairing mode and is the one to which the detector has been paired, the detector will automatically and wirelessly connect to the Bluetooth headset if the Bluetooth headset is in range.

If the detector has not been paired to the Bluetooth headset, it is necessary to pair the detector to the Bluetooth headset. To do it, first turn on the Bluetooth headset and make sure that it is in pairing mode. And make sure

that the Bluetooth headset is near the detector, then briefly press the "*" button on the detector; the detector will be paired to the Bluetooth headset and then wirelessly connect to the Bluetooth headset a moment later.

Note:

The Bluetooth headset is not waterproof. Never immerse the Bluetooth headset in water or liquid or use it in rain.

BATTERY REPLACEMENT

The battery level indicator on the display indicates the present level of the batteries. Four bars (*****) indicate that the batteries are high. To avoid performance decrease or abnormal operation, replace the batteries immediately when the battery level indicator becomes "*** (there is no bar on the indicator) or when the detector can not operate normally.

To replace the batteries, turn off the detector first. Then fully loose the bolts on the battery cover (see Figures 4 and 13) on the control box and then remove the battery cover. Pull out the baffle plate and then take out the battery holder.

Replace the exhausted batteries with new ones of the same type, ensure that the polarity connections are correct (see the polarity indications on the battery holder). Place the battery holder into the battery compartment in correct direction (see the connectors in the battery compartment). And then reinstall the baffle plate, the battery cover and the bolts.

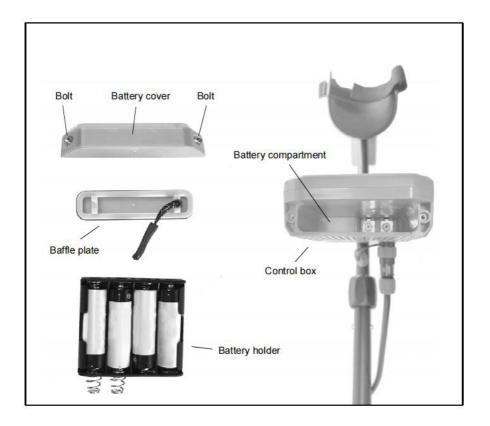


Figure 13

Note:

- 1. Do not place battery in any high temperature environment.
- 2. Do not bump, press or drop battery.
- 3. Do not short the positive and negative terminals of any battery.
- 4. Do not dismantle or modify any battery.
- 5. Do not put any battery in water (or liquid) or fire.

TROUBLESHOOTING

SYMPTOM	SOLUTION
The detector can not be turned on.	 Make sure that the batteries and battery holder are installed in correct orientation. Replace the old batteries with new ones of the same type.
Erratic sounds or target ID cursor movement	1. Ensure that the search coil is securely connected and that the search coil cable is snugly wound around the stem. 2. When using the detector indoors, be aware that excessive electrical interference is present and that floors and walls may contain reinforcing steel rods or other metallic objects. 3. Make certain whether the search coil is near other metall detectors or other metallic objects (such as electrical power lines, wire fences, etc). 4. Reduce the detector sensitivity when in the All Metals Mode.
Intermittent Signals	Intermittent signals typically mean that the detector has detected a deeply buried metal object or one that is positioned at an angle difficult for the detector to read. Scan from different directions to help define the signal. In the case of multiple targets, switch to the All Metals Mode and use the pinpointing function of the detector to precisely locate all targets. NOTE: Iron objects may cause intermittent signals. You can identify iron objects in the All Metals Mode.
The detector is incapable of finding specific targets	Ensure that you are using a suitable detection mode. If you want to detect coins, the COINS mode is probably the best choice to eliminate other unwanted metal objects. You can also use the All Metals Mode, which detects all metal targets to ensure that desired targets can be detected.
Target ID Cursor bounces	If Target ID Cursor bounces erratically, the detector may have detected a junk object or the metal signal is too weak. However, Target ID Cursor may bounce if a good target (such as a coin) is not parallel to the search coil or the target is below the edge of the search coil. Target ID Cursor may also bounce if there is one or several junk objects existing beside the good target. Move the search coil from different directions until Target ID Cursor becomes more stable. Note:
	Large iron plates, depending on their orientation in the soil, can read as a good target or cause Target ID Cursor to move erratically.

NOTE

- •Turn off the detector when not in use.
- •If the detector operates abnormally, a possible cause is that the batteries are exhausted. Replace the batteries if necessary.
- •Do not place the detector in any high temperature environment.
- •Handle the detector carefully. Do not bump, drop or abuse the detector.
- •Do not tamper with circuit of the detector.

WARNING

Any metal detector may discover underground power lines, explosives or other items which when struck could cause personal injury. When searching for metal objects, adhere to the following guidelines:

- •Do not search in an area where you believe there may be buried underground electric lines or pipes.
- •Do not strike any line known to be or suspected to be carrying electrical power.
- •Do not disturb any pipeline, particularly if it could be carrying flammable gas or liquid.
- •Use reasonable caution when digging toward any object, particularly in areas where you are uncertain of underground conditions.
- •For safety, do not go to minefield or military zone.
- Observe all national, state and local laws while detecting.

ACCESSORIES

Manual: 1 piece

Bluetooth Headset: 1 piece

Handbag: 1 piece

Digging shovel: 1 piece

Rechargeable Battery: 4 pieces
Coil protection cover:1 piece

6F22 battery:1 piece

Precision locator:1 piece 6 UHYfmW Uf Yf:1 piece

screwdriver:1 piece

screw:1piece

DECLARATION

- 1. This manual is subject to change without notice.
- 2. Our company will not take the other responsibilities for any loss.
- 3. The contents of this manual can not be used as the reason to use the detector for any special application.

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