

FLASHING
WHITE/BLUE
LED
INDICATOR
LIGHTS



Requires 1 x 9V battery (not included).

WARNING!

To be used under the direct supervision of an adult.



The purpose of the crossed-out wheeled bin symbol is to remind us that most electrical product and batteries contain trace elements which could be harmful to our environment and therefore our health. We must all be careful to dispose of them responsibly in a specifically designated way – either using a collection scheme or into the correctly labelled civic amenity (NOT into general waste) – this will help your local authority to arrange to recycle or dispose of them in the appropriate manner.



Please retain the information on this manual for future reference.

Colour, designs and decorations may vary from those shown in the photographs.

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SEARCH
FOR LOST
METAL
OBJECTS AND
TREASURES!



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Item no. **TDK28**

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Digital Metal Detector Instruction Manual

Components



The World Of Metal Detecting

Your new detector can be used to find missing or lost coins, pieces of jewellery and other metal objects.

Rules

Obey all laws. Check with and ask permission from the property owner before you do any detecting on private property. Do not trespass. When you find a metal object you may have to dig a small hole to retrieve it. Keep such holes as small as possible and fill them in neatly when you are finished.

SEARCH FOR LOST METAL OBJECTS AND TREASURES!

IMPORTANT INFORMATION - Safe Battery Usage

This unit uses a 9-volt battery (not included).

- Only adults should replace batteries.
- Do not mix battery types or old and new batteries.
- Do not use rechargeable batteries.
- Non-rechargeable batteries are not to be recharged.
- Batteries are to be inserted with the correct polarity.
- Do not short-circuit the supply terminals.
- Remove exhausted batteries from the metal detector.
- When metal detector is not in use, remove batteries to prevent possible leakage.
- Use only recommended or equivalent battery types.
- Do not dispose of batteries in fire: batteries may explode or leak.

Getting Started Battery Instructions - Adults Only!

Insert one 9-volt alkaline battery in the body of the metal detector. You will need a Phillips head (+) screwdriver to remove the battery compartment cover. Attach the battery to the battery compartment, making sure that the (+) and (-) terminals are properly identified. Replace the battery compartment cover and re-insert the screw. Do not over-tighten.

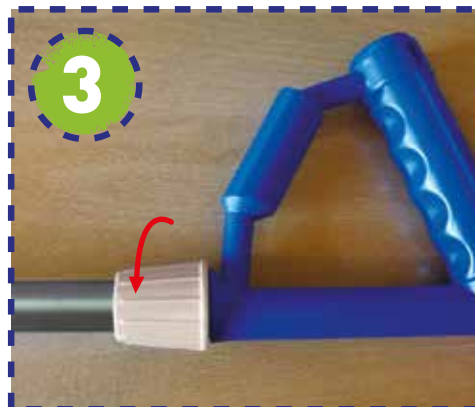


Assembly

Make sure that the shaft, handle and locking ring are separated. (Fig. 1).

Place the locking ring loosely on the shaft. Insert the shaft into the handle until it stops (Fig. 2).

Turn the locking ring anti-clockwise until tight to lock the handle in position (Fig. 3).



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**DOUBLE
DETECTOR
SEARCH
COIL**

How To Use

Turn the VOLUME ADJUSTER KNOB all the way clockwise until it stops.

Hold the metal detector so that the SEARCH COIL is held up in the air, away from any metal objects.

To help your metal detector work at its very best you will need to follow a procedure called CALIBRATION. Please do the following:

Turn the SENSITIVITY knob all the way counter-clockwise. It will make a loud beeping noise. Then turn the knob clockwise very slowly until the tone stops. STOP TURNING the knob the moment the beeping stops. This position is the most sensitive detection setting. You may want to repeat this procedure a few times to ensure that you have adjusted the metal detector to its optimum, most sensitive calibration setting.

Move the metal detector close to a metal object and you will hear the beeping tone. If you need to alter the sound, use the VOLUME ADJUSTER knob to reach a comfortable noise level.

Now, swing the metal detector back and forth while keeping the search coil level about 2cm above the ground. Move the search coil slowly. If you move too fast you may miss an object. A series of five white LED lights will display in the shaft.

When the metal detector detects a metal object, it will make a rapid beeping noise, the LED lights will change from white to blue, and they will flash more quickly.



**VOLUME
AND
SENSITIVITY
CONTROLS**

This metal detector is a toy, and is a fun introduction to the world of metal detecting. As such, it will only detect objects up to 3cm below the surface, depending on the soil conditions, and size and composition of the object being detected.

Coins are an obvious item to go looking for but over the years the metal used in coins has changed (most are now made from non-ferrous alloys of nickel-brass, cupronickel and bronze). However, metal detectors work best with ferrous metals (i.e. those containing iron). You will also find non-ferrous metals such as copper, aluminium, brass etc, though less effectively (non-ferrous objects need to be about 50% larger to be as visible to the detector as a ferrous object). It will work on modern coins, but you will find that a pile of coins is better to make their presence stronger.

You will probably find lots of bottle caps, metal pull tabs, and foil wrap. You should collect these and dispose of them in the relevant recycling bins. Do not be discouraged. Keep searching and you will be sure to find some rewarding objects.

Here are some places you might try searching for metal objects:

- Around old houses, especially near large trees where people often sit down to rest.
- Along grassy areas next to paths.
- Sites where annual fairs, carnivals or circuses take place.
- Along beaches.
- Local areas where historic events such as battles occurred, or where troops may have travelled or camped – remember to check current local laws before detecting in any historical places.
- Your own front and back gardens.

Always remember to ask permission before searching on privately owned property. Always tell an adult where you are going!



METAL DETECTORS HAVE COILS. ELECTRICITY (OR AN ELECTROMAGNETIC CHARGE) IS SENT THROUGH THESE COILS TO THE GROUND AND BACK TO THE COILS. METALLIC OBJECTS INTERRUPT THE SIGNAL, WHICH RESULTS IN THE UNIT CREATING AN AUDIBLE SOUND (BEEP).

Tips

RESPECT OTHERS!

Always ask permission from the property owner before searching. Found objects are usually the property of the landowner, unless you come to a different agreement. It is a good idea to check current local, regional or national laws. If a find is of significant monetary or historic value, you should report it to local authorities, as ownership might automatically revert to the government which may pay a 'finder's fee'.

RESPECT THE ENVIRONMENT

and be thoughtful! It's generally wise to take an extra bag along for any rubbish you dig up. It is good practice to remove and properly discard these findings instead of burying them again. Do not leave rubbish for other coin hunters to find.

Metal detecting is usually forbidden at historic sites and in most parks, so please check before searching.

When recovering lost items, always make the smallest hole possible and return the ground surface to the way it was before you started to dig.

Do not use a shovel to dig! Many coin hunters use a small garden trowel and a flat-blade screwdriver.

When searching in sand, you will find it easier to use a scoop or a sieve with small holes.

If the coins you find are really dirty, you should be very careful in cleaning them, especially if they are old and possibly of high value. Do not use harsh chemicals or abrasives. Try soaking them for a day or two in olive oil, and then rub them gently with an old towel to remove the dirt.

CAUTION:
DO NOT DIP THE SEARCH COIL IN WATER. THIS IS NOT AN UNDERWATER METAL DETECTOR. YOU WILL DAMAGE THE UNIT.

IN 1881, ALEXANDER GRAHAM BELL (THE INVENTOR OF THE TELEPHONE) CREATED THE EARLIEST FORM OF METAL DETECTOR EVER RECORDED, WHEN HE TRIED TO FIND A METAL BULLET LODGED IN THE PRESIDENT OF THE UNITED STATES BACK. PRESIDENT JAMES GARFIELD LAY DYING OF AN ASSASSIN'S BULLET, SO BELL HURRIEDLY INVENTED AN ELECTROMAGNETIC DEVICE TO TRY TO LOCATE IT.