MD-3007 Ground Searching Metal Detector

APPLICATIONS:

With this powerful and versatile Metal Detector, you can hunt for coins, relics, jewelry, gold, and silver just about anywhere. The metal detector is mainly used to detect and discriminate metal goods which are underground. It is widely used in such fields as safe-exam; ancient relic's investigation, mine detection, industrial product exam and relics seek. It is a detecting instrument easy to operate and take.

FUNCTION AND CHARACTERISTICS:

Tiltable Control Unit - allows you to adjust view angle of the viewmeter.

No Clumsy Slack Cable – hidden search coil cable (connecting between control unit and search coil) avoid entangling and for ease of stem length adjustment.

Headphone Jack - provided for headphone connection. Both stereo or mono headphone can be used.

Volume Control - for adjusting the output volume to the loud speaker and headphone.

Batteries Test - lets you test the conditions of the batteries in the battery compartment.

Viewmeter and Pointer - shows the probable type of metal being detected.

Three-tone Audio Differentiation - makes target identification easy. 3 distinctive tones sound for different types of metals.

Waterproof Search Coil - lets you use the detector in the shallow water.

Adjustable Stem - lets you adjust the detector's length for comfortable use.

Armrest & Stem - designed to eliminate strain on forearm.

Power - only two 9-volt batteries are required. Built-in DC-DC converter for prolonging battery life.

TECHNICAL SPECIFICATIONS:

1. BATTERY: 2*9V
   TYPE: 6F22,
   S006P
   OR EQUIVALENT
2. OPERATING CURRENT: STANDBY≤30mA
3. OPERATING VOLTAGE RANGE: 12~18V
4. OPERATING FREQUENCY: 15KHz±2KHz
5. SENSITIVITY: Min. 18cm ON A US C25 test coin
6. AUDIO FREQUENCY: F.L. 400Hz±60Hz
   F.M. 700Hz±105Hz
   F.H. 1500Hz±255Hz
7. TEMPERATURE RANGE: 0℃~40℃
8. SIZE: 636mm(L)*220mm(W)*185mm(H)
9. NET WEIGHT: 1.9Kg
10. Packing: 4pcs/carton

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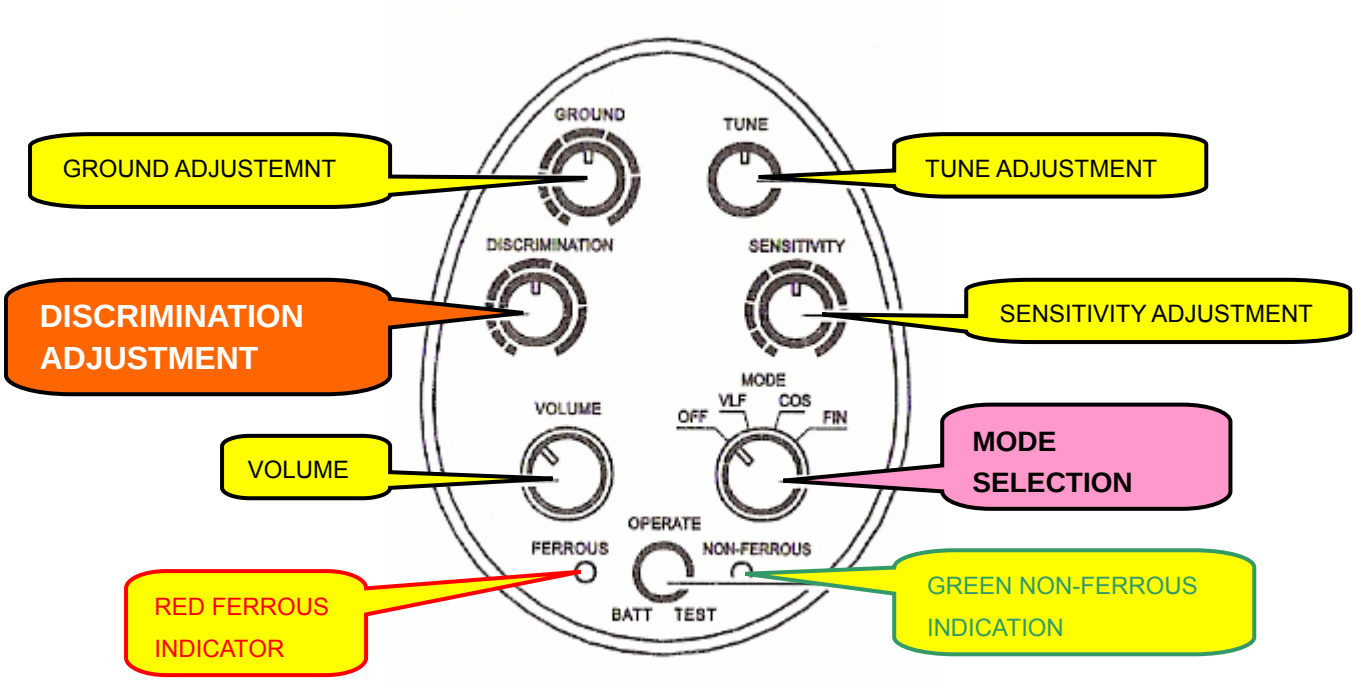
★ OPERATION



1. PRINCIPLE OF OPERATION

The detector operates at the frequency of 15KHz which is called the Very Low Frequency (VLF). In the VLF, the detector is allowed to response only to metal objects and ignored effects of iron ground mineralization. With the COS and FIN discriminating circuitries, differentiation of a metal detector is its ability to distinguishes between metal objects as well as ferrous and non-ferrous metals. Ferrous metals contain iron, while non-ferrous metals such as gold, silver, copper, platinum, aluminum, lead and zinc do not.

When the detector senses a metallic object, the viewmeter reading changes, the GREEN NON-FERROUS INDICATOR or the RED FERROUS INDICATOR turns on or off, and the detector sounds one of three tones. The actual reaction depends on what metal is detected. The higher the tone pitch, the stronger the detection.

2. MODE SELECTION

The detector provides you the following mode of operations:

OFF – power off. Cut all power supply to the detector.

VLF – for testing the batteries and tuning of the detector.

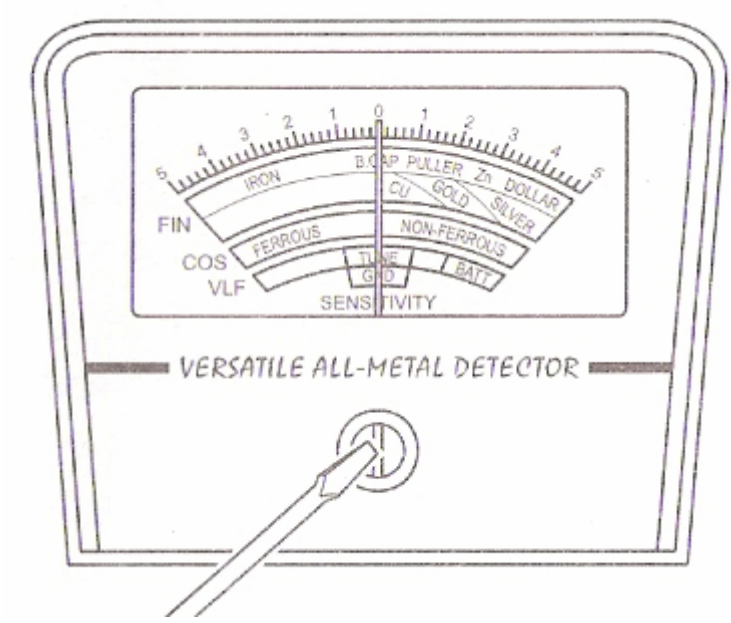
COS – to detect extreme differences in metals such as between iron and gold. Iron shows in the ferrous section while gold in the non-ferrous section.

FIN – to detect finer distinction between metal such as aluminum and gold.

3. DISCRIMINATION ADJUSTMENT

The discrimination of a metal detector is its ability to differentiate between types of metals. With the MD-3007 you may differentiate ferrous from the non-ferrous metals. Also you may distinguish between types of non-ferrous metals. MD-3007 provides you two modes of discrimination. Their functions are as follows:

- ▲ COS MODE, which detects all metals and should be used for initial searching. The DISCRIMINATION CONTROL should be set to mid-range.
- ▲ FIN MODE, the DISCRIMINATION of the detector can detect finer distinctions between metals, such as aluminum and gold. Having an object located in the COS mode, switch to FIN mode to determine the quality of the metal by increasing the DISCRIMINATION CONTROL. However as you increase the DISCRIMINATION, the detector becomes more sensitive to the differences between large aluminum and gold pieces.



viewmeter

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