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MD9300 Metal Detector

OWNER'S MANUAL

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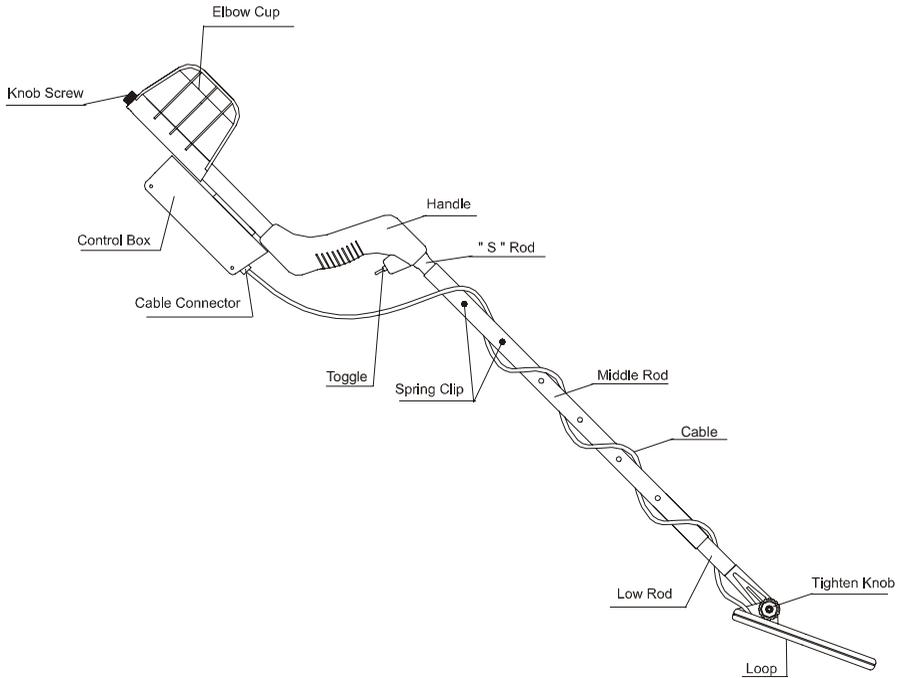
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Assembling the Detector



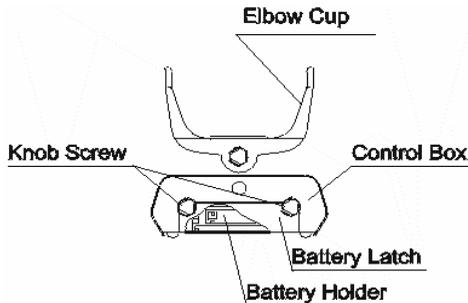
1. There are rubber washers between lower rod and loop ears.
2. Insert lower rod into one end of middle rod so that the spring clip buttons line up and locks into one of the adjustment holes. Then, insert the other end of the middle rod into the curved "s" rod so that the spring clip button lines up and locks into the hole of the middle rod.
3. Unravel loop cable and wind the cable around the rod assembly. Plug loop connector into control box and secure the screw finger.
4. Install batteries as described in the next section.

Installing Batteries

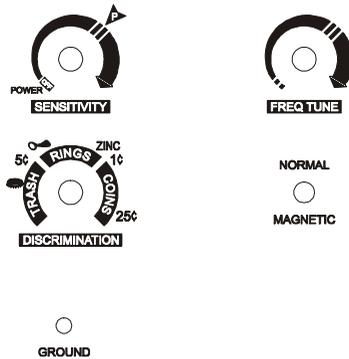
1. The battery holder holds 8 "AA" sized batteries. Alkaline are

recommended. For normal searching conditions you can expect about 70-80 hours of hunting time from one set of eight Alkaline.

2. Once the batteries become weak, the beep over metal targets will be reduced in volume. Shortly after, the instrument will no longer respond to metals.
3. Open the battery holder by loosening the two screws on the front of the control box and pulling down the battery latch.
4. Slide the battery holder lid by applying gentle upward pressure on the tab of the door so that it unlocks. Slide the door away from the battery box.
5. Remove any old cells from the holder. Install new "AA" cells noting carefully the correct (+) and (-) positions.
6. Replace the door so that it snaps securely.
7. Insert the battery holder into the control box, with the battery holder door tab and metal contact points facing toward the inside of the box.
8. Assemble the battery latch correctly by securing the two screws.



Controls and Function



1. Sensitivity Control

The sensitivity knob is used to turn the instrument power ON and OFF and to adjust the response of the instrument.

As the knob is turned further clockwise, detection depth as well as sensitivity to small metal items increases. Unfortunately, external electrical interference (broadcast antennas, power lines, etc) and ground interference also increases.

For good results in most conditions the “P”(Preset) position works well.

2. Discrimination Control

The Discrimination (DISC) control selects the amount of rejection against trash metals.

As the DISC knob is turned clockwise, more and more trash rejection is achieved. At the fully clockwise position nearly all trash metals are rejected as well as some valuables.

The DISC knob is active only when the detecting mode toggle (located on the handle/rod) is in the center position (DISC Mode).

For the rejection of more common trash metals and the detection of most valuables, this should occur somewhere between the RINGS range.

For the rejection of all trash metals, even though some valuables will also be lost, higher rejection levels are useful.

3. **FREQ TUNE Control**

The FREQ TUNE Control eliminates cross talk or interference often resulted by two or more detectors operating close together.

4. **NORMAL/MAGNETIC toggle**

The NORMAL/MAGNETIC (sand) toggle allows the operator to switch between two settings, NORMAL is best suited for normal conditions, and MAGNETIC is best suited for extreme conditions such as black sand, saltwater beaches or other highly mineralized ground. If searching extreme conditions, use the Magnetic position in combination with the detecting mode toggle (in the center DISC Mode toggle position), and the DISC control setting within the TRASH Range (Yellow Range). This will improve performance in extreme conditions.

5. **Detecting Mode toggle**

The Detecting Mode toggle (located on the handle/rod) selects between the two available operating Detection modes (DISC mode and ALL Metal mode). The center position is used during most searching where the rejection of trash metal is desired, based on the DISC control setting. Temporarily squeezing and holding the toggle or putting it in the locked forward position will provide superior pinpointing when detection of all types of metal is desired. Temporarily squeezing and holding the toggle offers all the advantages of the locked forward position only once released, the toggle automatically returns to the center DISC Mode.

Operating Instruction

1. Once unit is fully assembled and the batteries installed: Turn ON/OFF SENSITIVITY control clockwise to the "P". Set the DISCRIMINATION control to approx 1/3 position. Set Detecting DISC Mode toggle to the center DISC position (located on handle/rod). Set Magnetic Sand toggles to the NORMAL position. Set FREQ TUNE control to the High position.
2. The ideal position for the SENSITIVITY knob, in most conditions, is the "P"(preset). If interference becomes apparent, reduce the sensitivity control (counterclockwise) until operation is smooth and stable. When not in use, turn off the power.
3. Discrimination (DISC) Knob adjusts the level of rejection against trash metals. It is active only in the Detecting DISC Mode.
 - a. The 5¢ position is recommended for most searching. The detector will reject most iron and light foil and respond to most valuables including jewelry.
 - b. The 1¢ position is optional. The detector will reject more trash metals including aluminum pulltabs.\$0.05 coins and some jewelry will also be rejected.
 - c. The most useful range on the control is between the 5¢ and 1¢ positions.
 - d. When a trash metal is being rejected, it will produce a shorter beep or flutter-sounding beep. When a good metal is accepted it will produce consistent, smooth, solid and longer sounding beeps.
 - e. Once the DISC control position has been selected, sweep loop close to the ground, from side to side about one foot per-second. Overlap each pass by at least 50%.
 - f. Once a smooth consistent beep has been located, pinpoint where to dig by squeezing and holding the Detecting Mode toggle (located on

the handle). Slowly “X” loop over target, centering in on the loudest sound. Release the toggle and it will automatically return to the center position of the toggle.

4. If searching near other metal detectors, often cross talk or interference will result. Simply turn the FREQ TUNE control slightly, until the static is eliminated.
5. For searching in extreme conditions such as a wet saltwater beach with black sand or/any other highly mineralized soil, the NORMAL/MAGNETIC sand toggle can be used to improve performance. Place the toggle in the MAGNETIC position, place the Detecting Mode toggle in the center, and use a low DISC Knob setting within the TRASH Range(Yellow Range). If you increase the DISC Knob setting above the RINGS Range (Red Range), it will defeat performance in extreme conditions.
6. Most 1/4 inch headphones from 8-120 ohms will work with this Model. The model doesn't have volume control, so if you have sensitive hearing, be sure to select headphones with volume control.
7. Ground Rejection:The ground rejection of this model is factory preset at a level slightly positive of a ferrite mineral sample. This setting will provide good performance in most ground conditions. If you notice a lot of false targeting or if ground penetration is less than several inches, the ground rejection may need to be adjusted for your area.

To set the ground rejection:

- Place the Detecting Mode toggle in the center position (DISC). Lower and lift the loop from the ground. A beep indicates ground rejection is not yet set perfectly.
- On the top of the instrument, there is an access hole (marked “GROUND”) with a trimmer inside which is used to reset the ground rejection. Use a very small head screwdriver to adjust this trimmer.

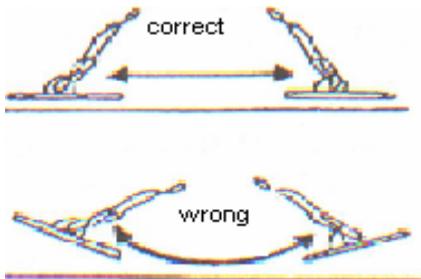
Find the edge where in one direction the detector beeps as the loop is lowered and lifted from the ground and in the other direction the detector doesn't beep. The correct setting is the point or edge where the detector just stops beeping as the loop is lowered and lift from the ground.

- Recover the access hole with a plug cover to prevent moisture and dirt from entering the control box.

Search Methods

1. Loop Sweep

- Because the loop must be moving in order to accurately respond, the sweep of the loop is critical to performance. Sweep the loop close to the ground. Keep it close throughout the sweep.

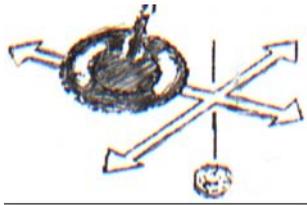


- Productive areas should be searched from at least two different directions, at 90 degree angles from each-other.

2. Pinpointing

Once a consistent good sound is located, squeeze and hold the detecting mode toggle (located on the handle) or press it forward to lock and "X" the area slowly to pinpoint the exact center. The detector will beep as the physical center of the loop passes the center of the target. Listen for the loudest beep as you sweep the loop over the area, then stop and sweep in the other direction listening for the loudest

beep. Where the two loudest beeps intersect is the center of the target. Return the toggle to the center position (DISC) before continuing to search.



Treasure Hunter's Code of Ethics

All treasure hunters might be judged by the example you set. Here are a few basic rules you should follow while using your detector.

- Always get permission before searching any site.
- Respect the rights and property of others.
- Observe all national, state, and local laws while treasure hunting.
- Never destroy historical or archaeological treasures. If you are not sure about an object you have found, contact a museum or historical society in your area.
- Leave the land and vegetation as it was. Fill in any holes you dig.
- Use your detector only in safe areas.
- Dispose of any junk you find, only in approved areas. Do not leave it for the next treasure hunter to find.

Care and Maintenance

The following suggestions will help you care for your metal detector so you can enjoy it for years.

- Keep the metal detector dry. If it gets wet, wipe it dry immediately. Liquids might contain minerals that can corrode the electronic circuits.
- Use and store the metal detector only in normal temperature environments. Temperature extremes can shorten the life of electronic devices, damage batteries, and distort or melt plastic parts.
- Keep the metal detector away from dust and dirt, which can cause premature wear of parts.
- Handle the metal detector gently and carefully. Dropping it can damage circuit boards and cases and can cause the metal detector to work improperly.
- Occasionally wipe the metal detector with a damp cloth to keep it looking new. Do not use harsh chemicals, cleaning solvents, or strong detergents to clean the metal detector.
- Warranty: This product is warranted against defects in materials and workmanship for 5 years from date of purchase. The item must be shipped at buyer's expense to our offices where we will, at our discretion, repair or replace it free of charge. Please include your original purchase receipt. This warranty is not valid for defects caused by accidents, misuse, improper care, alteration or abuse, nor is it valid if any service or repair is performed by non-authorized personnel.