

White's Electronics, Inc.

1011 PLEASANT VALLEY ROAD

SWEET HOME, OREGON 97386

OPERATORS INSTRUCTIONS



Manufacturers of The World's Largest Line of Mineral and Metal Detectors

MINERAL AND METAL
DETECTORS

ELECTRONIC
MAGNETOMETERS

SUPER GEIGER AND
SCINTILLATION COUNTERS

ULTRA VIOLET
LIGHTS

THE SUPER SENSITIVE
MODEL 800-A ELECTRONIC MAGNETOMETER

Operators Instructions

To put the instrument into operation, proceed as follows:

There are 2 straps with the instrument. 1 Strap goes around the neck and is adjusted for a comfortable chest height. The other strap (if desired) is to go around the chest, to hold the instrument case from swinging outward if the operator stoops.

After the instrument is in place, plug in the probe. There is a dot on the probe plug and a matching one on the case. Line these up and insert the plug into the socket, on the right end of the instrument. Hold the probe perpendicular, so that it hangs straight down (like a plumb-bob). This is of extreme importance. The probe should be carried carefully in this position, while in use, for the very greatest accuracy. Do not let the probe swing, but hold it steady. If it tilts, a false reading will be had. The sensitive area is on the end and it should be carried as close to the surface as the terrain will permit, without striking rocks, weeds, etc.

Move well away from any metal object, before making these adjustments:

(1) Rotate the Zero Control until the Figure #5 is at the top of the dial, and centered on the "Y" just above it.

(2) Rotate the Sensitivity Control from the OFF position, to the extreme right, as far as the control will turn. (A click will be heard, when the control first starts to turn, this is the power switch turning on.)

(3) Notice the meter reading. If the meter pointer is to the extreme right very slowly turn the Zero Control Knob to the left, until the meter pointer is in the center of the meter scale, on "0". If the meter pointer is on the extreme left turn the Zero Control slowly to the right, until the meter is zeroed in the center of the scale.

This zero adjustment must be made very slowly and carefully, for the greatest accuracy.

The instrument is now set for maximum sensitivity. If less sensitivity is desired, rotate the sensitivity control to the left, then readjust the zero control for a center scale reading. The further the Sensitivity Control is turned to the Left, the lower the sensitivity of the instrument, and the further to the Right the greater the sensitivity.

While carefully holding the probe, so it will not swing, but maintaining a perpendicular position, move across the area to be searched. Just as soon as the probe comes within the proximity of the object, the meter will detect it by an increase in reading and will maintain this reading until the object is passed.

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When a full scale meter reading is obtained, slightly adjust the Zero Control for a Zero reading to locate the spot where the reading is the highest. This may be repeated as often as necessary. The highest reading will be when the probe is centered over the object. Should you pass the object, the reading will be reduced. Also, do not revolve the probe, should you change directions, be sure to change the grip on the probe so that it is in the same direction and position that it was when you first adjusted it. This is similar to using a compass and keeping the pointer centered on North.

A good way to check an instrument and become familiar with it, is with a small iron stake, bolt or piece of iron pipe.

The instrument has all the sensitivity the operator can use. If more sensitivity is desired, very slightly turn the Zero Control to the right, from the centered point of Null, just below where the meter starts to move. This will very greatly increase the sensitivity on a metal object that has a positive field.

Turning this Zero Control slightly to the left of the centered, Zeroed Null will increase the instrument for any negative field. Taking a stake and reversing the ends, you will find that one end is positive and the other end is negative. In various areas, the polarity may change, so the instrument is designed to obtain the maximum sensitivity for either polarity, for any area. When using maximum sensitivity, the operator must hold the probe just that much steadier. There is no need to use more sensitivity than you actually need. Usually 1/2 or 1/3 turn on the sensitivity control to the right from the OFF position is enough for most stakes.

The instrument has a Center Reading Scale, 0 to 25+ and 0 to 25-, so that when over a negative reading object the meter pointer will swing to the Left, and when over a positive one, the meter pointer will swing to the Right.

To use the instrument this way, rotate the Sensitivity to 1/3 or 1/2 of its rotation, and adjust the meter Zero Control, until the meter pointer is in the center of the scale. The meter pointer will vary some, with the movement of the probe, so the probe must be held very steadily.

To increase the sensitivity of the Positive side of the meter, a very slight adjustment of the Zero Control will increase the instrument to positive fields. To increase the negative side, slightly turn to the left, but stop both times, before the meter pointer starts to move.

To practice with the instrument, drive stakes of various sizes in the ground and detect them, until you become familiar. Long buried stakes and objects are usually more detectable than newly driven ones.

To turn the instrument OFF, turn the Sensitivity Control to the OFF position until a distinct click of the switch is heard.

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To test the batteries, press down on the Battery check button. Replace the batteries with the new fresh AA penlight cells, when the reading drops below the Test Range.

This is a quality instrument. Taken care of, it should give you years of faithful service. If in need of service, pack it carefully and ship it to the factory, prepaid and insured, to our Service Department.

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