

White's Electronics, Inc.

1011 PLEASANT VALLEY ROAD

SWEET HOME, OREGON 97386

OPERATORS INSTRUCTIONS

Surf Master mineral/metal detector



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

**A Message from
Mr. Kenneth White, Sr.
President, White's Electronics**

Congratulations! You are now the proud owner of one of the world's finest metal detectors. You'll enjoy the many relaxing hours you'll spend with your new detector.

1. Your new detector is precision-made and has been carefully tested at our factory. Properly cared for, it will last for years and years. Treat it like a good friend and it should never let you down.

2. Any piece of fine equipment is only as good as the person operating it. Right now your detector is "smarter" than you, so you've got some catching up to do. Become very familiar with your instrument. Practice as much as you can. Soon it will become a part of you.

You and your metal detector will make an outstanding team. We've known many "shooters" who could follow in the tracks of others and find buried coins and rings the others had missed. You've got the equipment to out-shoot most anyone. Now all you need is the practice.

**Surf Master
mineral/metal detector**



Good Hunting,

Kenneth White

Kenneth White, Sr.



Surf Master

Operator's Instructions

To operate the instrument, proceed as follows:

1. Slip on the underwater headphone, so it is over the ear.
2. Locate the Control Knob. This control is both a switch (power on-off) and tuner control.
3. Next, rotate this control to the right (clockwise) - you should hear a click - to turn the unit on, and then keep turning until a low tone is heard. This will put the control at the tone threshold, its most sensitive position. This is called the "Threshold Metal Setting."

NOTE: Be sure the loop is away from any metal objects when you are going through step 3 above, and the loop is about 1/2 an inch above the ground.

4. Lower the loop the last 1/2 inch and begin search.

SEARCHING FOR METAL

With the Control adjusted as described above, you are adjusted to detect METAL.

When you pass the loop near a NON-FERROUS metal (metals that don't contain iron), such as gold, silver, etc., the volume of the tone will increase as you go across it, and then decrease as you move away. The loudest reading will be when you are directly over the object. The volume will stay loud as long as the loop is held close to the object, and will decrease in volume as you move past the object. **The volume will also decrease on the Threshold setting as you go over magnetic metals and minerals such as iron or black magnetic sand.**

UNDERWATER OPERATION

The Threshold setting of the instrument will shift slightly due to water temperature and salt concentration. This does not affect the instrument's operation or sensitivity as long as you can still obtain a Threshold setting. Readjust the tuner for Threshold as in Step 3, if necessary.

IMPORTANT NOTES:

1. When finished using the instrument, be sure to rotate the Control left (counter-clockwise), to the OFF position.
2. After using the instrument in salt water, it should be rinsed off to remove the salt brine from the case and particularly from all metal parts especially the rod length adjustment nut.
3. A cord is provided with a brass snap for attachment to the diver.
4. The rubber "O" Ring should be kept clean and with a light coating of silicone lubricant applied to insure a watertight seal.

REPLACING THE BATTERY

This instrument is powered by one 9 volt battery. To gain access to this battery, and to replace it, proceed as follows:

1. Unscrew the main housing jar.
2. Be careful as the plastic housing separates, handle the unit carefully, paying attention to how it should go together again.
3. Remove the BATTERY, the battery clip, and install the new battery.

NOTE: BE SURE TO REPLACE THE SERIAL NO. PLASTIC INSULATOR BETWEEN THE CIRCUIT BOARD AND THE BATTERY IF IT DROPS OUT DURING BATTERY CHANGE.

4. We recommend using alkaline batteries for longer battery life

CAUTION:

BE CAREFUL NOT TO BREAK THE LEADS TO THE BATTERY DURING DISASSEMBLY OR ASSEMBLY.

5. Reinstall the FOAM BLOCK in front of the BATTERY.
6. Screw the two housings on snugly, 1/8 to 1/4 of a turn.

IMPORTANT

When putting your instrument away, care should be taken to see that the switch is not accidentally left on, as this will discharge the battery if left on over several hours. If you are going to store the instrument for a long period of time, it is a good policy to disconnect or remove the battery.

If in need of service, pack the instrument carefully, insure it, and return the instrument to a Factory Service Center.

SEARCHING ON LAND

To locate hidden or buried objects with a properly tuned detector, systematically sweep the loop from side to side across the area you are working. [ILLUSTRATION A]. With a six inch loop you should take three inch steps, moving the loop ahead the same amount after each sweep. For maximum performance when searching, you should always try to keep the loop at a constant level and as close to the ground as possible, following the tuning procedure outlined earlier in this manual.

It is a good policy to periodically stop and readjust the tone threshold of your instrument slightly. As you become more experience, however, you will begin to notice whether or not the tone threshold needs to be readjusted just by the difference in the tone you hear.

After you have located an object you may "Pinpoint" it using the method shown. (ILLUSTRATION B). Move the loop from side to side to find the strongest signal on Axis B or the "Center Line of MAX. SIGNAL". The strongest signal normally will be located under the center of the loop.



ILLUSTRATION A

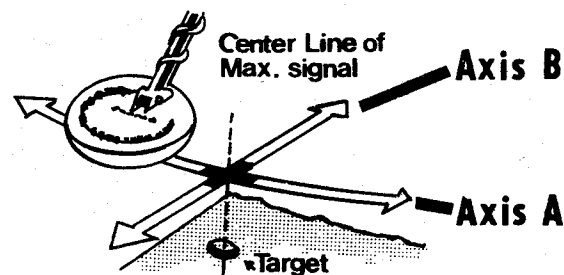
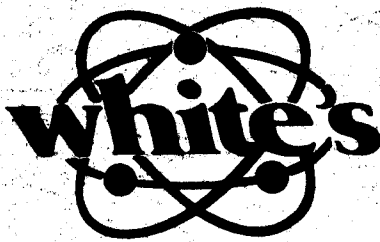


ILLUSTRATION B



1011 Pleasant Valley Rd.
Sweet Home, Or. 97386

Printed in U.S.A.