



HEADHUNTER

D I V E R  W A D E R

Owner Instruction Manual

INTRODUCTION



D I V E R  W A D E R

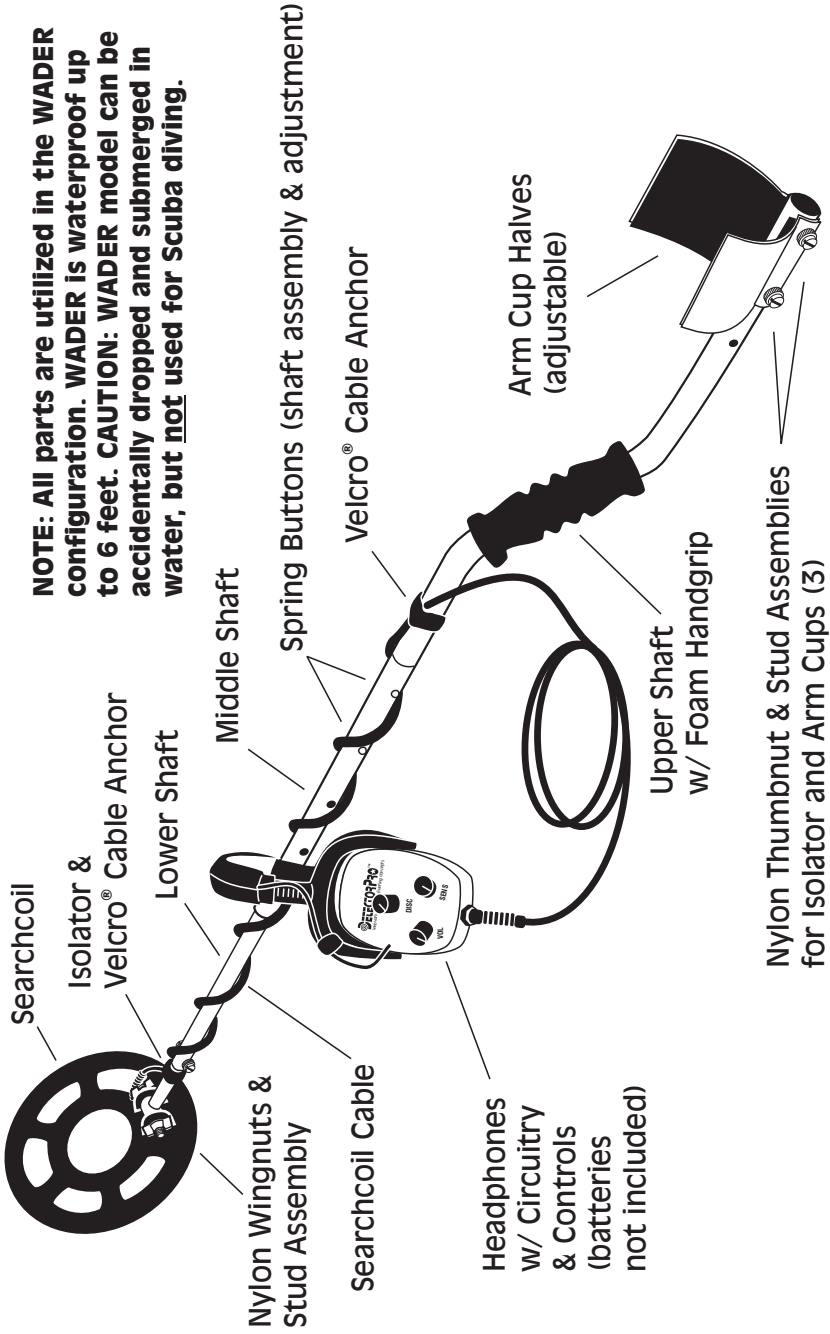
Thank you for buying our **HEADHUNTER** metal detector. You have purchased one of the most compact underwater metal detectors in the world. Not only does this metal detector contain today's most innovative electronics, it is the first water detector that has all the electronics built into the headphones. By eliminating a control housing, weight of the detector is significantly reduced and so is your arm fatigue. When you travel, the **HEADHUNTER** also takes up very little room. All of this is possible because of our innovative micro circuitry and packaging design. The **HEADHUNTER** was engineered to perform best in both salt water and fresh water, but it is also a very good land hunter as well. We feel it is a true universal application metal detector.

HEADHUNTER opens up a whole new world of excitement. Thousands of valuables are continuously lost each year and you can now start finding them. Learn the operation of your new metal detector well, do site research, obey the law, and respect the rights of others. If you do all of the above, you will have an enjoyable, successful hobby that will give you pleasure and relaxation for years to come.

Happy hunting and good luck,
Gary Storm

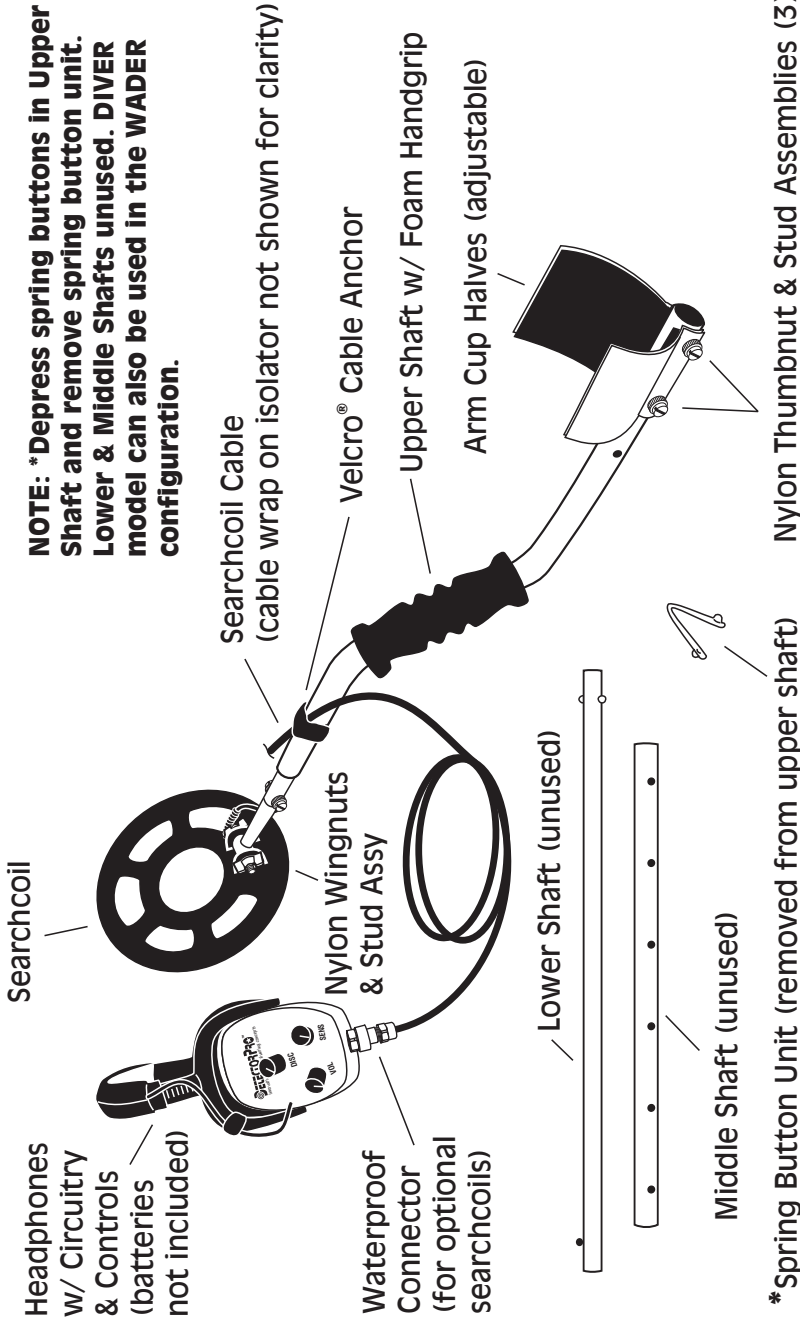
ASSEMBLY – WADER

NOTE: All parts are utilized in the WADER configuration. WADER is waterproof up to 6 feet. CAUTION: WADER model can be accidentally dropped and submerged in water, but not used for Scuba diving.



ASSEMBLY – DIVER

NOTE: *Depress spring buttons in Upper Shaft and remove spring button unit. DIVER and Middle Shafts unused. DIVER model can also be used in the WADER configuration.



TERMINOLOGY

If you are new to metal detecting, we have provided definitions below to help you better understand terminology used in this manual. The following was reprinted with permission from: **DETECTORIST**, A How-To Guide to Better Metal Detecting, by Robert H. Sickler.

AIR TEST - A test to determine the maximum sensitivity a metal detector is capable of under ideal conditions. Various sized metal samples are held beyond the searchcoil bottom at varying distances to determine the limits of audio or visual response. Air tests are not accurate indicators of ground penetration ability. (see **BENCH TEST**)

ALKALINE - A grade of battery composition which sustains higher current drain and possesses a greater shelf life than basic carbon-zinc types.

BENCH TEST - Another form of air test used to define which discriminate settings accept or reject various target samples. Detector is placed upon a stationary, nonmetallic rest and samples are manually passed across the bottom of the searchcoil.

CARBON-ZINC - The standard or basic grade of drycell battery.

DISCRIMINATION - Circuitry and the mode of operation in which audio or visual responses from undesired metal objects are intentionally eliminated.

GROUND BALANCE - A condition or mode of operation in which the detector is adjusted to optimally reduce the interference that ground mineralization has on metal targets.

MOTION DISCRIMINATOR - A detector requiring constant searchcoil motion to reduce the effect ground mineral interference has on its discriminate function.

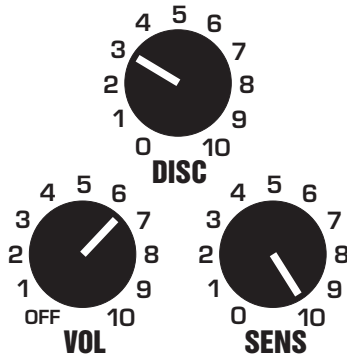
PINPOINTING - The act of aligning the center of target response width to the designated searchcoil center for accurate location and careful recovery.

SENSITIVITY - The measure of a metal detector's capacity to sense changes in conductivity throughout the pattern of detection set forth by the searchcoil configuration. (see **AIR TEST**)

TARGET - Any buried or hidden object which a metal detector responds to.

VOLUME CONTROL - A metal detector control which regulates the loudness of target response.

CONTROLS



HEADHUNTER DIVER & WADER models have three controls for the micro-encapsulated circuitry located in one sealed earcup of the headphones. Batteries are found in the other earcup and are user accessible.

The Discrimination (**DISC**) control has “stay-put” segmented position adjustments. The Volume (**VOL**) and Sensitivity (**SENS**) control adjustments are continuous and not segmented.

Segmented controls allow the operator to make adjustments without removing the headphones to view the position numbers. Once discrimination points are learned, the operator simply moves the control to the zero stop position and counts the segment clicks to make the desired adjustment. This only requires learning where the three controls are located and the starting points of each control. The control earcup should be worn on the side of the head opposite the arm used to sweep the searchcoil rod — thus giving a free hand to comfortably make adjustments. The Sensitivity control can be adjusted backwards from maximum (“10”) to lessen the effects of ground mineralization and small surface trash. Obviously the Volume control is set to the user’s preference and does not require a secure position. The “stay-put” segmentation of the Discrimination control is the most user critical. Having this control accidentally lose adjustment could possibly make you lose some valuable targets if set too high. **NOTE: Diver model has a waterproof connector for changing to optional searchcoils.**

DISCRIMINATION POINTS

Bench test your detector in an area free of metal and electrical interference. For each item, return the DISC control to "0" and rotate the knob while passing each item below the searchcoil. Stop the knob when the item no longer signals or the sound character becomes broken. This number will be a discrimination reference point. It will not be possible for you to test all items on the list, but this will give you an idea what different levels of discrimination will do to your target. The items below are in order of conductivity. Please note the good items mixed with the trash items.

- _____ COMMON NAIL
- _____ FOIL
- _____ THIN RINGS (14K)
- _____ "TAB" OF PULLTAB
- _____ THIN RINGS (10K)
- _____ MEDIUM RINGS (14K)
- _____ NICKEL COIN (5 CENTS)
- _____ PULLTAB (WHOLE)
- _____ \$2.5 GOLD COIN
- _____ "RING" FROM PULLTAB
- _____ THICK WEDDING BAND (14K)
- _____ THIN RING (STERLING SILVER)
- _____ 3-CENT COIN (SILVER)
- _____ SQUARE TAB
- _____ \$5 GOLD COIN
- _____ SMALL CLASS RING (10K)
- _____ INDIAN HEAD CENT
- _____ SCREWCAP (ALUMINUM)
- _____ HALF-DIME (SILVER)
- _____ ZINC CENT (COPPER PLATED)
- _____ LARGE CLASS RING 10K
- _____ 2-CENT COIN
- _____ ½ REALE COIN (SILVER)
- _____ BARBER DIME
- _____ "WHEAT" CENT
- _____ HALF-CENT (COPPER)
- _____ \$20 GOLD COIN
- _____ CLAD DIME
- _____ 1 REALE COIN (SILVER)
- _____ MERCURY/ROOSEVELT DIME (SILVER)
- _____ LARGE CENT (COPPER)
- _____ CLAD QUARTER
- _____ QUARTER (SILVER)
- _____ HALF-DOLLAR (SILVER)
- _____ DOLLAR COIN (SILVER)

OPERATION

Operating Instructions:

The **HEADHUNTER** metal detector is one of the simplest metal detectors to use. It employs fully automated, ground balanced motion-discrimination circuitry. The searchcoil must be in slight motion to maintain audible target signal. The following is the basic startup procedure for Diving & Wading.

1. Turn **HEADHUNTER** power ON. Set Volume to level where you can hear target signals comfortably. This can be accomplished by passing a coin back and forth under the searchcoil. Regulator bubble noise can reduce your hearing range and volume level should be increased accordingly.
2. Turn the Sensitivity control fully clockwise to the maximum level. If you hear chatter or static, reduce level until no interference is audible. In salt water, it may be necessary to reduce sensitivity. Your **HEADHUNTER** is equipped with a quality "stay put" segmented potentiometer for the Discrimination control. Sensitivity and Volume are continuous turn controls. The Sensitivity and Volume adjustments should be made according to how your detector reacts in salt and fresh water.
3. Next adjustment will be setting the Discrimination level. After learning where unwanted items will be discriminated out, you can adjust this before entering the water. If you want to change Discrimination levels once operating in water without having to view the control, just simply count knob clicks from the "0" position. Again, bench testing will teach you what click count setting certain objects are eliminated from audio.
4. Swing your coil back and forth slowly over the water's bottom. Keep the coil as close to the bottom as possible. Solid sounding audio signals should always be investigated. Pinpointing a target is accomplished by raising the searchcoil off the target and slowing the sweep until the audio signal is centered under the coil in opposing sweep directions.
5. Retrieving targets submerged in water is more difficult than on land or wading. Some hunters just fan the water to move the sand while others will carry a special digging tool. Always carry a small "goody" bag to deposit and transport your finds. Please remove and dispose of all trash you find. No one likes digging it up more than once!

(continued on page 9)

OPERATION

6. With experience you will become good at retrieving finds no matter how bad the visibility.

Diving

Diving with the **HEADHUNTER DIVER** is not only fun, but very rewarding. People have been losing objects in the water since the human race began. You now can start finding your share of these lost valuables with your **HEADHUNTER** metal detector. **CAUTION: Do not attempt to dive unless you complete a thorough diver training course taught by a certified instruction agency.**

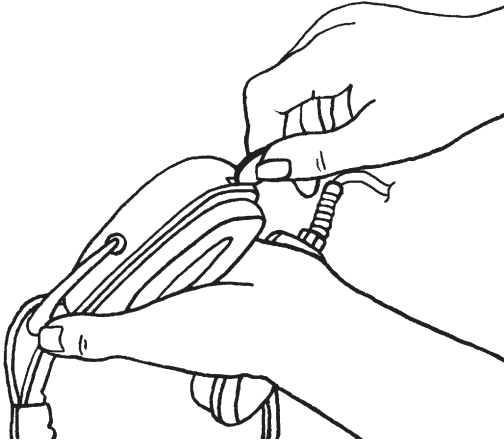
Most treasure divers look for coins and jewelry. Every town has a beach or some type of public swimming area. Most beaches are littered with trash objects than neighboring land sites. We suggest you use as little discrimination in the water as possible. When you first get your detector, bench testing it with various sizes of gold and silver rings and coins will train you how much discrimination will be needed and at what numerical settings. When you make your first dive, we suggest not using the discriminator at all until you gain some water hunting experience. In time you will learn how to retrieve targets even when water visibility is minimal. There are many good books on the market that teach water hunting with a metal detector. We suggest you learn all you can by reading about the many different searching and retrieval techniques. However, nothing will replace gaining your own experience.

Wading

Control setup for wading is the same as the above Diving procedure with the only difference being you can't always see or reach the water bottom where your searchcoil is. Most experienced waders purchase a quality long-handled scoop and floating sifter system. When you hear a signal that you want to retrieve, pinpoint it and use your long-handled scoop to retrieve the target.

Note: WADER model is not designed for diving pressures. WADER is waterproof up to 6 feet and can be accidentally dropped and submerged in water, but not used for Scuba diving. WADER & DIVER models do not have a battery check system. They can be operated continuously up to 50 hours on a fresh set of alkaline batteries. The operator is advised to keep track of time logged on each set of batteries to avoid shutdown in the middle of a hunt. Always carry fresh batteries as a backup on every hunt. This is common practice with all detectors, with or without a battery check system.

BATTERIES & MAINTENANCE



Battery Replacement:

Your **HEADHUNTER** metal detector operates with two, 9-volt standard batteries (not supplied). Hourly use can be extended by using 9V Alkaline batteries.

To add or replace batteries on the **DIVER**, place a coin between the cup plate and the round stud on the earcup. Turn it until the cup "pops" open exposing the battery compartment. To add or replace batteries on the **WADER**, place a coin into the slot on the earcup and turn until the cup "pops" open exposing the battery compartment. Note the placement of the worn batteries before removal. Remove the old batteries and insert two fresh 9-Volt batteries into the connectors.

This earcup is O-ring sealed. Be sure to carefully clean the O-ring, the groove it resides in and the mating halves of the earcup. Lubricate O-ring sparingly with silicone grease only. **DO NOT USE PETROLEUM JELLY.**

After batteries have been installed, carefully align the earcup halves and press until a solid "snap" is heard. Make sure battery connector wires are well inside of the seal area and do not get pinched on reassembly.

Maintenance:

1. Always thoroughly rinse your **HEADHUNTER** in fresh water after using it — especially in salt water.
2. Store your detector in a cool place.
3. Never store it in a manner that it will be subject to vibration or shock.

WARRANTY

Record Your:

Date of Purchase:

Dealer Name/Address:

HEADHUNTER Model: DIVER WADER PULSE
 LANDPRO

Serial Number:

DetectorPro warrants to the original consumer purchaser that your **DetectorPro** metal detector will be free from defects in materials and workmanship under normal use for two years (24 months) from the original date of purchase. If your **DetectorPro** detector fails due to defects in material or workmanship, **DetectorPro** will repair or replace at its option all necessary parts without charges for parts or labor.

This warranty gives you specific legal rights, and you may have other legal rights that vary from state to state. The warranty is non-transferable. Your warranty registration card must be sent in 10 days from date of purchase to validate your warranty.

The warranty excludes batteries, cable breakage due to improper flexing, wear on searchcoil housing, and wear of cable protection. Also excluded are metal detectors that have been abused, altered, or repaired by an unauthorized party. Opening electronics side of headphones and tampering will void warranty.



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SPECIFICATIONS



HEADHUNTER

D I V E R  W A D E R

Operating Search Frequency: 2.4 KHz¹

Searchcoil: 8" Concentric, Co-Planar, RF Shielded²

Audio Frequency: 400Hz

Headphone Transducer: Piezo Electric³

Search Mode: Silent search, Slow Motion Discrimination

Operating Environments: Salt water, Fresh water, Land

Submersible:

DIVER model: Waterproof to 100 feet

WADER model: Waterproof to 6 feet (no diving or snorkeling.)

Length:

DIVER Configuration: 27 to 53"

WADER Configuration: 43 to 53"

Weight w/Batteries: 3.5 Pounds

Batteries: (2) 9-Volt Carbon Zinc, Alkaline, or Rechargeable

Battery Life: up to 50 hours⁴

Warranty: 2 years

NOTES:

1. Quartz Crystal Controlled
2. Insulated against static interference
3. WADER model is waterproof to 6 feet only
4. When alkaline batteries are used in the detector
5. Specifications subject to change without notice

 **DETECTOR PRO**™

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