

OPERATING INSTRUCTIONS: TREASURE ACE 300

The Treasure Ace detector is shipped assembled and ready to use. Make sure the first turn of the searchcoil cable is over the top of the stem. Adjust the stem length for your height, then study the following.

CONTROL FUNCTIONS:

Power/Detection Depth Control: Rotate knob clockwise to turn detector on. Further rotation increases detection depth and sensitivity. This control allows detection at the greatest depth possible in relation to conditions that affect the sensitivity of the detector's signals. Turn the knob slightly to the left when necessary to reduce or eliminate sounds created by ground and/or atmospheric conditions.

Elimination (Discrimination): This full-range discrimination control allows selection of which trash items are to be eliminated from detection.

Headphone Jack: Located on the right side of the control panel. Headphones permit the operator to hear small and deep targets that might be missed when using audio from the speaker only.

LCD Display Panel: Above the upper scale is the Target ID Guide, where coin denominations and other helpful information is shown to assist in identifying located targets.

The upper scale displays the current discrimination pattern even as the Elimination knob is turned. The illuminated segments indicate the targets that will be announced by an audible signal. As the elimination control is turned to the right, lighted segments will cease to show. When any target is discovered the probable ID and metallic conductivity will be indicated. Where the segment is is not lit, there will be no audio signal. Where the segment is lit there will be an audio signal and the segment will flash indicating the probable ID and conductivity of the discovered item.

Treasure Eye: The lower scale on the LCD Display panel that indicates target discovery and aids in the pinpointing of the target. It also monitors the condition of the batteries.

Battery Condition: The LCD Display constantly reports the condition of batteries powering the detector. This Display is found in the lower left corner of the LCD.

Audio: The audio level of the Treasure Ace 300 is factory set to be just into the silent range. Targets will not be missed at this level and there will be no loss of target signals.

Battery Test and Replacement:

When the power is turned on, the battery circuit is checked automatically and their condition reported on the LCD. As the batteries begin to discharge the words *LOW BATTERY* will flash at first slowly, in the lower left corner of the LCD. Flashing will become more rapid as battery power is used. When the words appear constantly, it is time to replace the batteries. The (2) 9-volt batteries are located on the backside of the detector housing behind a sliding door. To

replace the batteries, slide the door slightly to the left approximately ½ inch. The door may then be removed to allow access to the batteries. Remove the old batteries and replace with high quality carbon, alkaline, or rechargeable batteries. Make certain the new batteries are installed properly, observing polarity. Replace the battery door and slide it closed. Always make certain that all parts fit snugly, but do not force.

OPERATING INSTRUCTIONS:

Set the control knobs to the INITIAL SETTING (Δ) position. The detector is now operating in the TRASH ELIMINATION MODE. To operate the TRASH ELIMINATION MODE and eliminate “junk” targets, adjust the Elimination Control to the desired level for foil, nails, bottlecaps, or pulltabs to be eliminated.

Scan the searchcoil at about one to two feet per second. Maintain a one or two-inch searchcoil height above and level to the ground. All accepted metal targets produce an audio sound when the targets are below the coil. Dig all targets that produce an audio signal.

TARGET ACCEPTANCE & REJECTION

When a metallic object is accepted, the detector’s speaker or headphone sound will increase from the factory-set audio threshold level. When a metal object is eliminated (rejected), no sound will be heard. Some rejected targets however, may cause the audio to “break up” or sound erratic. The following explains the various **Trash Elimination Settings** as shown by the icons placed around the control knob.

Trash Elimination Settings:

- In the TRASH Range most small rusty iron will be eliminated just above the All-Metal setting.
- Salt water is eliminated just below the bottlecap indicator.
- At the Bottlecap: foil, nails, and larger rusty iron, will be eliminated.
- At the Pulltab: pulltabs, bottlecaps, foil, nails, and rusty iron will be eliminated.

Note: Nickels, rings, and many foreign coins and tokens may also be eliminated at this setting. Test typical trash items before operating.

Recovery/Pinpointing:

Recovering a target is accomplished first by *Pinpointing*.

Pinpoint targets by drawing an imaginary “X” on the ground with the searchcoil at the place where the maximum sound occurs. You will also notice that the Treasure Eye LCD will move from the outer edges toward the center as an aid to pinpointing. When the cursors meet in the center, the target is beneath the center of the searchcoil and the audio will be at its loudest. You will notice that the searchcoil cannot be held motionless above the target, **the searchcoil must be moving slightly to detect the targets location.**

The next step in recovery usually involves digging. Always make as small a hole as possible. It is quicker, requires less digging, and is easier to fill. And, you should always *fill your holes*.

MAINTENANCE

- ❖ Always remember that your metal detector is a sensitive electronic instrument. It is built to withstand rugged treatment in the outdoors. Use your Garrett detector to the fullest extent possible, and never feel that you have to *baby* it. Yet, always protect the detector and handle it with reasonable care.
- ❖ Try to avoid temperature extremes as much as possible, such as storing the detector in an automobile trunk during hot summer months or outdoors in sub-freezing weather.
- ❖ Keep you detector clean. Always wipe the housing after use, and wash the coil when necessary. Protect your instrument from dust and sand as much as possible.
- ❖ Your searchcoil is submersible. The control housing is not! *Never* submerge the control housing and *always protect it* from heavy mist, rain or blowing surf.
- ❖ Disassemble the stem and wipe it clean after use in sandy areas.
- ❖ When storing longer than about one month, remove batteries from the detector.

REPAIR SERVICE

- ❖ In case of difficulty, read this Owner's Manual again thoroughly to make certain your detector is not inoperable needlessly. Your dealer may also be able to offer advice.
- ❖ When your detector must be returned to the factory for service, always include a letter that describes its problem as fully as possible. Before you return your detector to the Garrett factory, make certain:
- ❖ You have checked batteries, switches and connectors. (Check *batteries* especially closely. They are the most common cause of detector "failure".)
- ❖ You have checked with your dealer, particularly if you are not familiar with this type of detector.
- ❖ You have included a note with the detector describing the problems you are encountering with this detector and conditions under which they occur. Make certain to include your name, address and a phone number where you can be contacted between 8:30 a.m. and 4 p.m., Central Time.
- ❖ You have carefully packed the detector in its original shipping carton or other suitable box. Make certain that proper insulation or packing material is used to keep all parts secure. Do *not* ship stems or headphones unless they are part of the problem. Be certain to return all coils.
- ❖ Ship to Garrett Metal Detectors, 1881 W. State St., Garland, TX 75042.
- ❖ You can call the Garrett Customer Service Department (800-527-4011) if you have further questions.

- ❖ Please allow approximately one week for Garrett technicians to examine and repair your detector after they receive it, plus another week for return shipping to you. All equipment will be returned UPS or parcel post unless written authorization is given by you to ship collect by air parcel post, UPS Blue (air) or air freight.

MIND YOUR MANNERS

Filling holes and obeying *no trespassing* signs are but two requirements of a dedicated metal detector hobbyist. A sincere request that Charles Garrett makes to every user of one of his detectors is that each place searched be left in a better condition than it was found. Thousands of individuals and organizations have adopted this formal Metal Detector Operators Code of Ethics:

- ❖ I will respect private and public property, all historical and archaeological sites and will do no metal detecting on these lands without proper permission.
- ❖ I will keep informed on and obey all laws, regulations and rules governing federal, state and local public lands.
- ❖ I will aid law enforcement officials whenever possible.
- ❖ I will cause no willful damage to property of any kind, including fence, signs and buildings and will always fill holes I dig.
- ❖ I will not destroy property, buildings or the remains of ghost towns and other deserted structures.
- ❖ I will not leave litter or uncovered items lying around. I will carry all trash and dug targets with me when I leave each search area.
- ❖ I will observe the Golden Rule, using good outdoor manners and conducting myself at all times in a manner which will add to the stature and public image of all people engaged in the field of metal detection.

WARNING!

Any metal detector may discover underground power lines, explosives or other items which when struck could cause personal injury. When searching for treasure with your detector, observe these precautions:

- ❖ Do not hunt in an area where you believe there may be shallowly buried underground electric lines or pipes.
- ❖ Do not hunt in a military zone where bombs or other explosives may be buried.
- ❖ Avoid striking any line known to be or suspected to be carrying electrical power.

- ❖ Do not disturb any pipeline, particularly if it could be carrying flammable gas or liquid.
- ❖ Use reasonable caution in digging toward *any* target, particularly in areas where you are uncertain of underground conditions.

PATENT PROTECTION: Proof of Garrett excellence is the recognition given them by the following United States patents: 4,709,213; 4,488,115; 4,700,139; 4,398,104; 4,423,377; 4,303,879; 4,334,191; 3,662,255; 4,162,969; 4,334,192; 5,148,151; 5,138,262; 5,721,489; 5,786,696; 5,969,528; Design 274,704 and 297,221; Design 333,990; G.B. Design 2,011,852; Australia Design 111,674 and other patents pending