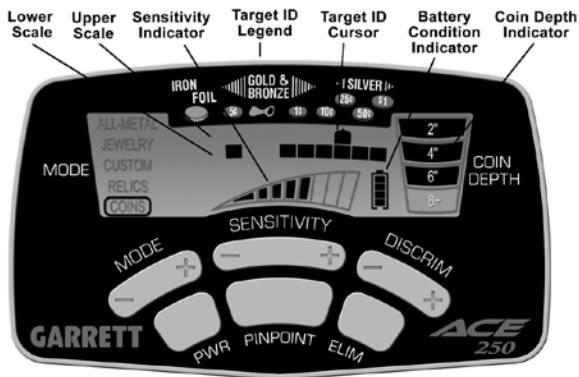


ACE 250 Key Features



1. POWER Pushbutton (press and hold to reset to factory recommended settings)—Press and release to switch the unit ON and resume hunting with the same settings and modifications used prior to turning the unit OFF. When the POWER pushbutton is pressed and held for 5 to 10 seconds (until the detector beeps), the ACE 250 will return to the factory recommended settings of each MODE.

2. Upper Scale—The Upper Scale, where the Target ID cursor is illuminated when hunting, consists of twelve (12) graphical segments for more precise Target ID and discrimination.

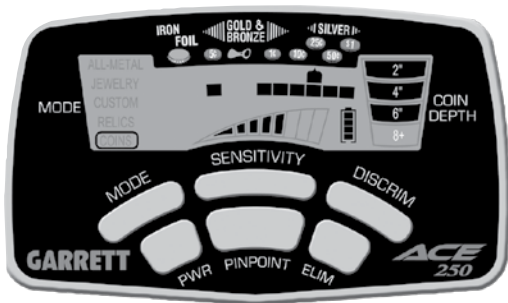
3. Coin Depth—Coin Depth is expanded to four (4) depth indicators including 2”, 4”, 6” and 8+ inches.

4. Sensitivity—The ACE 250 has eight (8) Sensitivity settings for more precise depth and target detection.

5. Battery Condition Indicator—An LCD display is continuously illuminated to indicate the battery level.

ACE 250 Controls

The ACE 250 includes these additional control functions not found on the ACE 150:

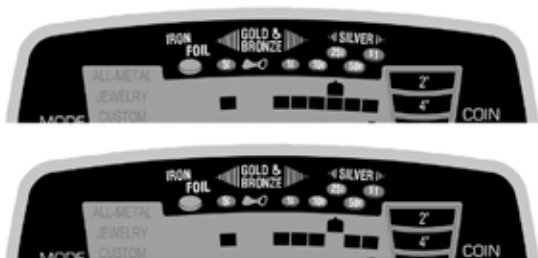


1. DISCRIM Pushbutton—Use the (+) or (-) DISCRIM pushbuttons to move the Target ID cursor to the left or right. Next, use the ELIM Pushbutton to modify the discrimination pattern on the Lower Scale.

2. ELIM Pushbutton—Press the ELIM (Eliminate) pushbutton to eliminate or activate the

LCD cursor located on the Lower Scale, directly below the Target ID cursor.

The ELIM function can be used to modify each Mode's discrimination pattern. For example, when an unwanted target is located while hunting, press the ELIM button to eliminate that Notch (delete the cursor) to eliminate that specific target. See illustration below.



All Notch Discrimination modifications made while in the CUSTOM mode will be retained when the detector is turned OFF. However, all changes made to the Notch Discrimination scale while in the ALL-METAL, JEWELRY, RELICS

and COINS modes will return to the factory settings when the detector is turned OFF.

3. PINPOINT Pushbutton—Press and hold the Pinpoint pushbutton to determine the exact location of a target that is still hidden in the ground, wall or other structure.

When pinpointing, the Upper Scale on the LCD Screen indicates signal strength. When the greatest number of LCD segments (increasing left to right on the scale) is shown, the center of the searchcoil is directly over the target with the depth of a coin-sized target shown on the depth scale.

To use the pinpoint function, move the searchcoil to the side of the target's loudest audible tone. Press the Pinpoint button and hold it down while sweeping the searchcoil at a constant height over the target area. Sweep the searchcoil side to side and front to back at the lowest constant height to locate the area causing the loudest signal. Watch the bar graphs on the LCD Screen to also see the

peak signal area. With practice at pinpointing, you will be able to pinpoint objects very quickly.

4. Five MODE options—Like the ACE 150, the ACE 250 has All-Metal, Jewelry and Coins modes. The ACE 250, however, has two additional modes: Custom and Relics.

- **CUSTOM Mode**—This Mode can be programmed by the operator. The ACE 250 is factory preset with the CUSTOM Mode set the same as the COINS Mode. By using the DISCRIM and ELIM pushbuttons, an operator can modify the Notch Discrimination settings to individual specifications, which will be retained in the CUSTOM Mode when the ACE is turned OFF.

The CUSTOM Mode can be used to find specific metal items. For example, if an earring has been lost, scan the matching earring with the ACE 250 while in the CUSTOM mode. Note where the Target ID cursor appears when



Use the ELIM pushbutton to delete LCD cursors on the Lower Scale.



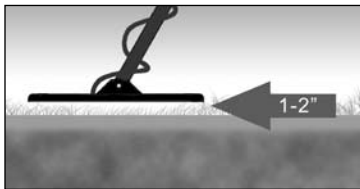
the earring is scanned. Next, use the DISCRIM pushbutton to move the Target ID cursor to the left and right. Push the ELIM button to delete the LCD cursors on the notch Discrimination Scale (see illustrations above), leaving only the one where the Target ID cursor illuminated when the earring was scanned. Depending upon how the earring is laying in the ground, your ability to find it will be enhanced by turning on an additional cursor on either side of the target cursor. The ACE 250 is now programmed to find only the missing earring based on the conductivity of its matching pair.

ELIM can also be used to modify the Notch Discrimination Scale to reject a specific type of trash while detecting all other metal. When a trash metal is audibly detected while hunting, simply push the ELIM button to create a notch where the Target ID cursor signaled the presence of the trash. The next time the ACE 250 encounters the same trash item, it will not produce an audible signal.

- **RELICS Mode**—Designed to eliminate trash targets normally associated with relic hunting, while detecting good targets in the lower conductivity range, such as lead and brass.

Hunting With Your ACE Detector

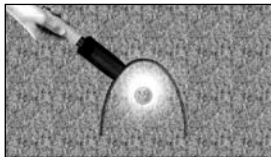
- If you're new to treasure hunting start searching in sandy areas, such as those found near playgrounds or on the beach. These sandy and loose gravel areas make it easier to learn how to use your metal detector to pinpoint and dig targets.
- Hunt in your own yard and around playground lawns once you're familiar with your new metal detector. These areas give you an opportunity to test your pinpointing and digging practices in manicured lawns.
- Keep your searchcoil height approximately 1 to 2 inches and parallel to the ground at all times for best detection results.



- Walk slowly as you scan your searchcoil in a straight line from side to side while moving the coil at a speed of about 1/2 to 1 foot per second. Advance the searchcoil about one half the diameter of the searchcoil at the end of each sweep.

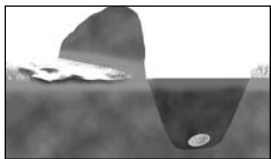


Digging a Target



To retrieve your treasure in a grassy area:

1. Cut a C-shaped half circle in the ground about 3 to 4 inches deep where you've pinpointed your target.



2. Gently fold the grass plug onto a handkerchief or similar type cloth.



3. Retrieve your target from the hole or use a probe to further investigate its location. If the target is deeper place the excess soil on top of the folded plug.



4. Replace the loose soil and fold the plug back into the ground. Step on the plug to ensure it will not be pulled up with a lawn mower.

Troubleshooting Guide

SYMPTOM	SOLUTION
No power	<ol style="list-style-type: none">1. Ensure batteries are installed in the correct position.2. Replace all old batteries with all new batteries.
Erratic sounds or target ID cursor movement	<ol style="list-style-type: none">1. Ensure your searchcoil is securely connected and the coil cable is snugly wound around the stem.2. If using the detector indoors, be aware that excessive amounts of metal can be found in floors and walls.3. Reduce your sensitivity setting.4. Determine if you are close to other metal detectors or other metal structures such as electrical power lines, wire fences, benches, etc. <p>(NOTE: Large, flat pieces of iron—depending on their orientation in the ground—can read incorrectly and cause erratic Target ID Cursor movement.)</p>
Intermittent Signals	Intermittent signals typically mean you've found a deeply buried target or one that is positioned at a difficult angle for your detector to read. Increase the sensitivity on your detector and scan from different directions until the signal becomes more definite. In the case of multiple targets switch to the All-Metal Mode or press PINPOINT to precisely locate all targets. In trashy areas, use the Super Sniper™ searchcoil. (NOTE: Iron targets may cause Intermittent Signals. You can identify iron targets in an All-Metal Mode).
I'm not finding specific targets	Ensure you are using the correct mode for the type hunting you are doing. If specifically hunting for coins, COINS mode should be your best choice to eliminate other undesirable targets. You may also use the All-Metal mode, which detects all metal targets to ensure desired targets are present.
Target ID Cursor bounces	If your Target ID Cursor bounces erratically, chances are you've found a trash target. However, a Target ID Cursor may bounce if a good target (such as a coin) is not parallel to the searchcoil (e.g. on edge). It may also bounce if there is one or multiple "junk" targets laying next to the good target. Scan from different directions until your Target ID Cursor becomes more stable.