## 1 YEAR LIMITED WARRANTY

### Metal Detector

WINBEST® by BARSKA®, as manufacturer, warrants this new product to be free of original defects in materials and/or workmanship for the length of time specified by this warranty. This warranty does not include damage caused by abuse, improper handling, installation, maintenance, normal wear-and-tear, unauthorized repairs or modifications and tampering in anyway.

This warranty is limited to the original purchaser and is not transferable. This warranty applies only to products purchased in the United States of America and Canada.

In the event of a defect within 30 days, the consumer must return the defective unit to the WINBEST® by BARSKA® dealer (the place of purchase) at his/her own expense.

Beyond 30 days, WINBEST® by BARSKA® products should be sent to the following address for warranty repairs. Products must be packed carefully and sturdily to prevent damage in transit, and returned freight prepaid to:

WINBEST® by BARSKA®
855 Towne Center Drive
Pomona, CA 91767

For additional and updated information
please visit www.barska.com

Please email info@barska.com or call 1.888.666.6769 for Return Merchandise Number (RMA#) before any returns.
NOTE: All merchandise received without a valid RMA# will be returned to shipper at his/her own expense.

Please include all of the following when returning WINBEST® by BARSKA® products for service and/or replacement:
1. Please write your complete details (Name, Address, Telephone #, E-mail address, RMA#, etc.)
2. Purchase receipt or Proof of Purchase. (Original/Copy)
3. A brief explanation of the defect
4. A Check/Money Order of $15.00 to cover inspection, shipping and handling
*Please allow 6-8 weeks for delivery

This product will either be replaced or repaired at the discretion of the warrantor. If it's a discontinued item, we will replace the product with an equivalent product. Should the repair not be covered by this warranty, an estimate will be sent for your approval. Non-warranty repairs or refurbishing are always provided at a reasonable cost.

WINBEST® by BARSKA® shall not be liable for any consequential, incidental and/or contingent damages whatsoever. We will not pay shipping, insurance or transportation charges from you to us, or any import fees, duties and or taxes. This warranty supersedes all previous Winbest® by BARSKA warranties.





WINBEST® by BARSKA®

# D-50 Edition
# Metal Detector



855 Towne Center Drive | Pomona, CA 91767
(t) 888.666.6769 | (f) 909.445.8169 | www.barska.com

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Notes Before Use

- This detector is for outdoor use only. Do not use indoors. Many home appliances can emit electromagnetic waves, and will interfere with the detector.

- For indoor testing, keep the search coil away from electronics such as microwave ovens, computers and TVs. If your detector beeps erratically, turn off the electronic appliances and lights, especially those with dimmer switches.

- Read this manual before using.

Treasure Hunter's Code of Ethics

A few basic rules you should follow while using your detector.

- Always get permission before searching any site.

- Respect the rights and property of others.

- Observe all national, state and local laws when treasure hunting.

- Never destroy historical or archaeological treasures. If you are not sure about an object you have found, contact a museum or historical society in your area.

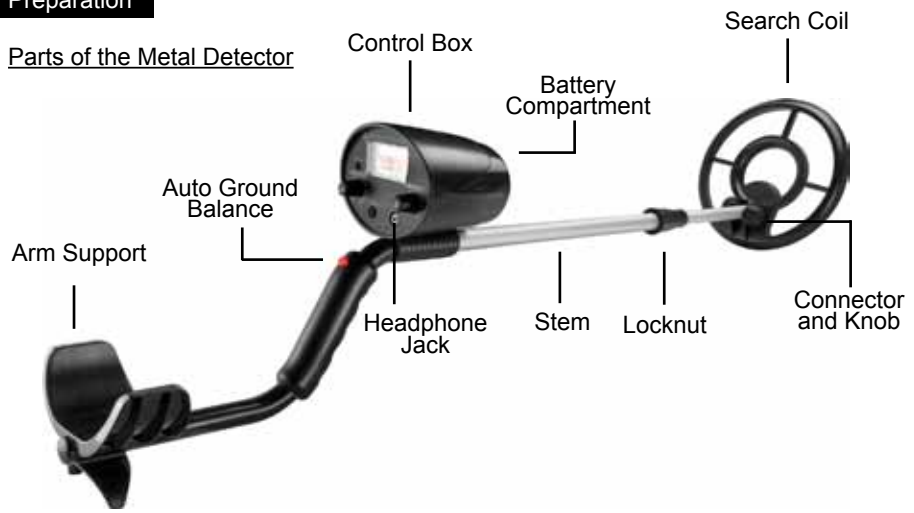
- Leave the land and vegetation as is, and fill in any holes you dig.

- Use the detector only in safe areas.

- Dispose of any junk you may find, only in approved areas. Do not leave it for the next treasure hunter find.

## Preparation

Parts of the Metal Detector




Assembly

The installation does not require tools, just following the steps below:

1. Turn the stem's lock nut clockwise until it loosens.

2. Lengthen or shorten the stem so when you stand upright with the detector in your hand, the search coil is level with and about one half to 2 inches above the ground with your arm relaxed at your side. Then turn the stem's lock nut counter clockwise to lock it in place.

   Note: Do not loosen the stem lock completely, or the plastic ring inside may fall out. If the inside ring falls out, please put it back and then tighten the lock set.

3. Loosen the knobs at the search coil's end, then adjust the search coil to the desired angle. (The search coil should be parallel with the ground.) Tighten the knobs just enough to keep the search coil from rotating or wobbling.

Batteries

1. Turn off the detector.

2. Slide the battery cover off in the direction of the arrow.

3. Insert 9v battery into the compartment as indicated by the polarity symbols (+ and -) marked inside the compartment, replace the cover.



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Cautions:
- Always remove old or weak batteries which can leak chemicals that can destroy electronic parts.
- If you do not plan to use the detector for a week or more, remove the batteries.
- Dispose the old batteries promptly and properly according to State and Federal Guidelines.
- Replace the battery when "LOW BATT" light turns on.

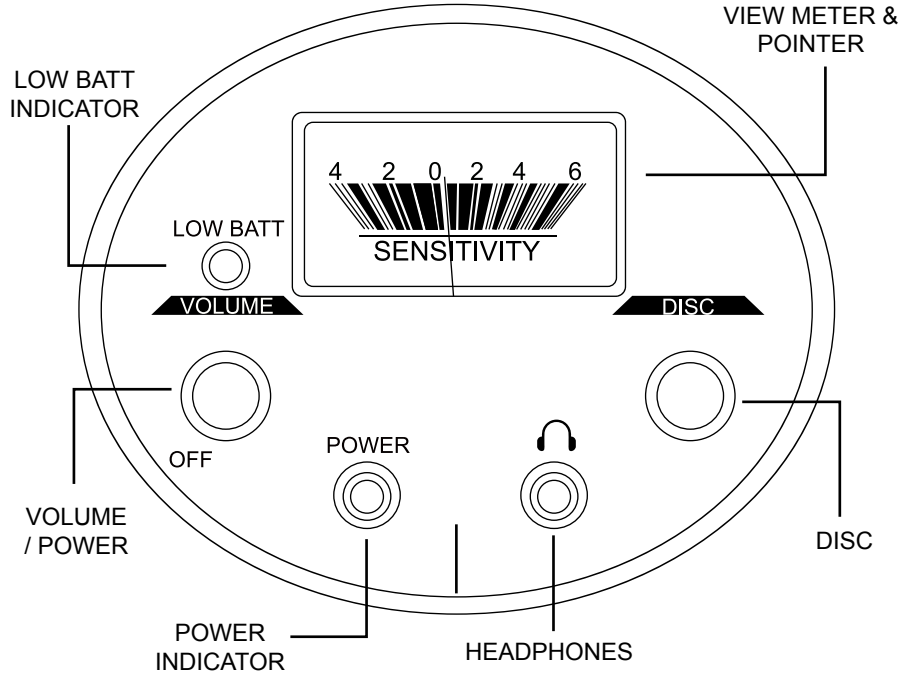
Headphones

You can connect a pair of stereo headphones (not supplied) to the detector so you can listen to it privately. Using headphone also saves battery power and makes it easier to identify subtle changes in the sounds you hear, for better detection results.

To connect headphones to the detector, insert the plug into the headphone jack on the side of the control housing. The detector's internal speaker disconnects when you connect the headphone.

Listening Safely
- Do not listen at extremely high volume levels. Extended high volume listening can lead to permanent hearing loss.
- Do not wear earphones while operating your detector near high-traffic areas. For safety, always be aware of your surrounding.

Control Panel



## Operation

This Metal Detector distinguishes between ferrous and nonferrous metals. Ferrous metals included iron, while non-ferrous metals are gold, silver, copper, platinum, aluminum, lead, and zinc.

Turn On The Detector

Hold the detector in a comfortable position, rotate the VOLUME knob clockwise.

Tuning

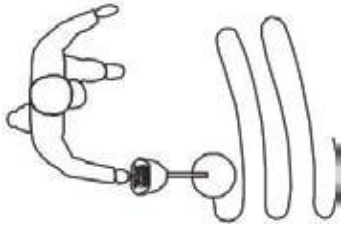
1. Rotate VOLUME to the 11 o'clock position.

2. Set DISC to the midpoint on the knob

3. Hold the search coil about 1 foot away from the ground, hold down the RED button on the handle until the pointer on the view meter rests at or near 0, then release the RED button.

Note: Press the RED button on the handle at any time during operation and the pointer will return to 0 automatically.

Using the Detector



1. Remove watches, rings, or other metal jewelry you are wearing.

2. Hold the search coil level and about 1/2-2 inches above the ground.

3. Slowly move the search coil over the area where you placed the sample, sweeping the search coil in a side-to-side motion. The distance of the movement path should be around 4-6 inches. The smaller the target metal, the closer you should hold the detector to the ground.

4. When the detector detects a ferrous metal, sound becomes lower or even disappears. Meanwhile the meter pointer moves to left.. When the detector finds a non-ferrous metal, it makes louder sound and the meter pointer goes to right.

5. If the detector does not detect the material, check the battery power and verify if the battery is properly connected.

6. Use DISC to enable the detector to discriminate different metals.

Note: Each time after you adjust DISC, you have to press the RED button on the handle so that the pointer will return to 0 position.



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Testing and Using the Detector

To learn how the detector reacts to different metals, you should test it before you use it the first time. You can test the detector indoors and outdoors.

Indoor Testing

Remove any watches, rings, or other metal jewelry you are wearing

1. Place the detector on a wooden or plastic table.

2. Adjust the search coil's angle so the flat part faces the ceiling.

   Note: Never test the detector on a floor inside a building. Most buildings have metal of some kind in the floor, which might interfere with the objects you are testing or mask the signal completely.

3. Rotate VOLUME to 11 o'clock position. Set DISC to midpoint on the dial. Press the RED button until the pointer on the view meter rests at or near 0.

4. Move a sample of the material you want the detector to find (such as a gold ring or a coin) about 2 inches above the search coil. If the detector detects the material, the pointer moves to left (ferrous), sound gets down or even disappears; Or the meter pointer moves to right (non-ferrous) with loud sound. If the detector does not detect the material, check the battery power and verify if the battery is properly connected.

   Note: If you are using a coin, the detector detects it more easily if you hold it so a flat side is parallel with the flat side of the search coil (not the edge).

Outdoor Testing & Using

1. Find an area on the ground outside where there is no metal.

2. Place a sample of the material you want the detector to find (such as a gold ring or a coin) on the ground. If you are using a valuable metal such as gold to test the detector, mark the area where you placed the item, to help you find it later. Do not place it in tall grass or weeds.

3. Rotate VOLUME about two-thirds clockwise. Set DISC to midpoint.

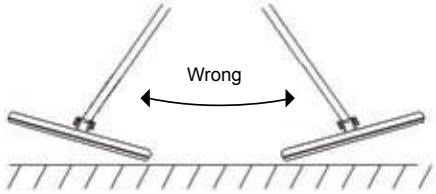
4. Press and hold down the RED button until the pointer on the view meter rests at or near 0.

5. While holding the search coil about 1-2 inches above the ground, slowly move the search coil over the area where you placed the sample, sweeping the search coil in a side-to-side motion.

Note: Before trying to find other metal in the area, press the RED button to return the meter pointer to “0”.

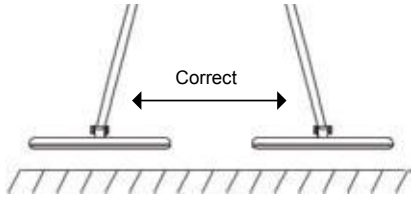
Search Coil Sweeping Hints

1. Never sweep the search coil as if it were a pendulum. Raising the search coil while sweeping or at the end of a sweep causes false readings.




2. Sweep slowly – hurrying makes you miss targets.

- If the detector detects the material, sound changes and the pointer moves to different directions according to the types of metal it finds.




- If the detector does not detect the material, make sure you are moving the search coil correctly.

Notes:
The detector responds with a strong signal when it detects most valuable metal objects. If a signal does not repeat after you sweep the search coil cover the target a few times, the target is probably junk metal.

False signals can be caused by trashy ground, electrical interference, or large irregular pieces of junk metal. False signals are usually broken or unrepeatable.

## Useful Skills

How To Use DISC

Discrimination is the detector’s ability to differentiate between types of metal. The detector’s DISC setting determines whether the detector will distinguish between different types of ferrous and non-ferrous metals.

You can set DISC to minimum (fully counterclockwise), then rotate clockwise, the detector first discriminates iron, then pull tabs and nickel. When you set the DISC fully clockwise, silver still can not be discriminated. The sound will be lower or even disappear and the pointer will move to left when the unit detects discriminated metal. The sound will be higher and the pointer will move to right when the unit detects metal which is not discriminated.



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Note: Each time you use the detector in a different area, you must adjust the DISC. Each search location presents new challenges.

About False Signals

Because your detector is extremely sensitive, trash-induced signals and other sources of interference might cause signals that seem confusing. The key to handling these types of signals is to dig for only those targets that generate a strong, repeatable signal. As you sweep the search coil back and forth over the ground, learn to recognize the difference between signals that occur at random and signals that are stable and repeatable.

Factors That May Affect Detection

No detector is 100 percent accurate. Various conditions influence metal detection. The detector’s reaction depends on a number of things: the angle at which the object rests in the ground, the depth of the object ,the amount of iron in the object, the size of the object.

Pinpointing A Target

Accurately pinpointing a target makes digging it up easier. However, you need practice to improve this skill, therefore, we suggest you practice finding and digging up small metal objects on your own property before you search other locations. Sometimes targets are difficult to accurately locate due to the sweep direction. Try changing your sweep direction to pinpoint a target. Please follow these steps to pinpoint a target

1. When the detector detects a buried target, continue sweeping the search coil over the target in a narrowing side-to-side motion. Make a visual note of the exact spot on the ground where the detector beeps.

2. Stop the search coil directly over this spot on the ground. Then move the search coil straight forward away from you and straight back toward you a couple of times. Make a visual note of the exact spot on the ground where the detector beeps.

3. Repeat Steps 1-2 at a right angle to the original search line, making an “X” pattern. The target should be directly below the “X” at the point of the loudest response.

Notes:
- If trash in an area is so heavy that you get false signals, slow your sweep speed and use shorter sweeps.
- Recently buried coins might not respond the same as coins buried for a long period of time because of oxidation.
- Some nails, nuts, bolts, and other iron objects (such as old bottle caps) oxidize and create a “halo” effect. A halo effect is caused by a mixture of natural elements in the ground and the oxidation created by different metals. Because of the metal mixtures, target signals might not be in a “fixed” position. This effect makes these ∂objects very hard to detect accurately.

## Trouble Shooting

If your detector is not working as it should, follow the suggestions below to see if you can eliminate the problem.

| Problem | Suggestions |
|---|---|
| The detector displays or sounds false signals. | You might be sweeping the detector’s search coil too fast or at the wrong angle. Sweep the search coil more slowly and hold the detector correctly. See “Testing and Using the Detector” and “Pinpointing a Target”. |
| | The detector might sound a false signal if it detects heavily oxidized metals. Try pinpointing the target from several different angles (see “Pinpointing a Target”). If the detector does not display and sound the same signal each time, the target is probably heavily oxidized metal. |
| The display does not show the correct metal type when the detector finds a target. | There might be more than one target in the area you are searching. |
| | The target might be a type of metal that the detector does not recognize. |
| | If the target is heavily oxidized, the detector might not display the correct metal type. This is not a malfunction. |



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## Care and Maintenance

Handle the detector gently and carefully. Dropping it can damage circuit boards and cases and can cause the detector to work improperly.

Use the detector only in normal temperature environments. Temperature extremes can shorten the life of electronic devices, damage the cases of the detector.

Keep the detector away from dust and dirt, which can cause premature wear of parts.

Wipe the detector with a damp cloth occasionally to keep it looking new. Do not use harsh chemicals, cleaning solvents, or strong detergents to clean the detector.

CAUTION:

· The search coil is water proof, and it can be completely under the fresh water or sea water. Please be careful to avoid the water enter into machine body. Sea water may erode the search coil. Please always use fresh water to clean the search coil after detection in sea water.

· Change or damage the inner components will cause the detector fault, and such fault is not within our warranty.