

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.

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 \$25.00 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.

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Pro-400 Metal Detector



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

Please read before using this equipment

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FEATURES

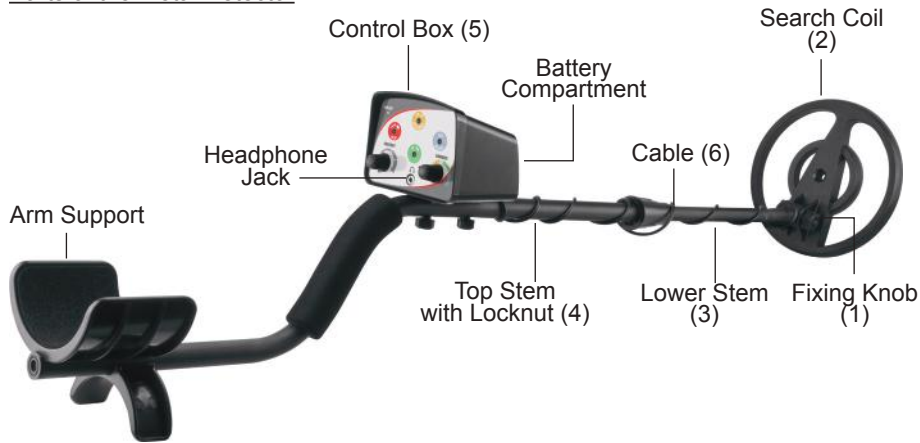
With your Metal Detector, you can hunt for coins, relics, jewelry, gold, and silver just about anywhere. This metal detector is versatile and easy to use.

The detector's features include:

- Two Operation Modes: ALL METAL, ELIMINATOR
 - ALL METAL— it is used to search for all kinds of metal object with ELIMINATOR knob at MIN position.
 - ELIMINATOR— this mode can facilitate you to search for and discriminate the target type or eliminate the metal type you don't want.
- LED Indicator— there are four different color LEDs for four types of metal targets. When target is found, LED lights for relative target. When battery is low, LOW BATT LED lights to remind user replacing battery.
- SENSITIVITY/POWER— use to adjust the sensitivity. It is also used as power control. Rotate it clockwise away from off to turn on the detector.
- Headphone Jack (3.5mm)—let you connect stereo headphones (not included) and operate without trouble.
- Waterproof Search Coil – let you search for metal objects under shallow water.
 - *Note: the search coil is waterproof, but the control housing is not waterproof.
- Adjustable Stem – let you adjust the detector's length for comfortable use.
- Arm Support— let you carry and operate your detector comfortably.
- Power---Your metal detector requires two 9-volt alkaline batteries (not included).

PREPARATION

Parts of the Metal Detector



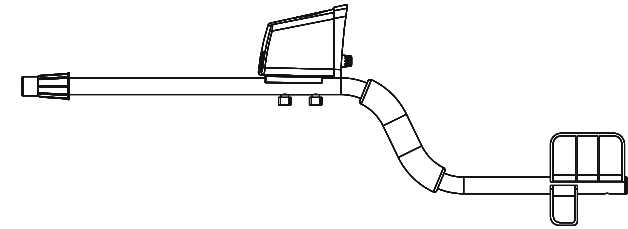
Assembling the Detector

Assembling your detector is easy and requires no special tools. Just follow these steps as below:

1. Unscrew the knobs (1) on the search coil (2) and remove the knobs and the connector. Insert the lower stem (3) and align the holes on the search coil bracket and the stem. Push the connector through the holes, and then place and tighten the knobs.
2. Loosen the top stem's locknut (4) in the direction of the arrow (clockwise). Then, insert the lower stem (3) into the top stem (4) connected with the handle. Turn the stem's locknut in the reverse direction of the arrow (counter-clockwise) to tighten it in place.



3. Fix the control box (5) on the top stem (4) and tighten the screws properly (shown as below).



4. Wind the search coil cable (6) around the stem and insert its plug into the five pin jack under the control box (5).

***Caution:**

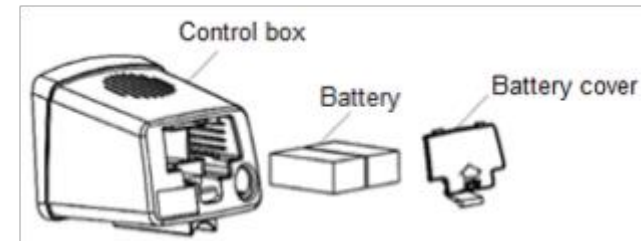
- The search coil's plug fits into the jack only one way. Don't force the plug or you could damage it.
- Don't pull the cable if you want to pull out the plug from the jack.

5. In order to adjust the length of stem for comfortable use, turn the top stem's locknut (4) clockwise to loosen it. Stand and stretch your arm, holding the detector to make the search coil above the ground for about .5-2 inches/ 1-5 cm. Then, rotate the stem's lock nut counter-clockwise to tighten it.

***Caution:** Don't over tighten the lock nut.

Installing the Batteries

1. Check the power switch on the front panel to make sure it is in the "OFF" position.
2. Slide the battery cover off in the direction of the arrow.
3. Place two 9V batteries into the battery compartment matching the polarity symbols (+ and -) marked inside and reinstall the battery cover.



Caution:

- Use only fresh battery of the required size and recommended type.
- Always remove old or weak battery; battery can leak chemicals that can destroy electronic parts.
- If you do not plan to use the detector for a week or more, remove the battery.
- Dispose of old battery promptly and properly.

Using Headphones

You can connect a pair of stereo headphones (not included) to the detector, so you can listen to it privately. Using headphones 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 headphones' 3.5mm plug into the headphone jack on the control panel.

Note: the detector's built-in speaker disconnects when you connect headphones.

Listening Safety

To protect your hearing, follow these guidelines when you use headphones.

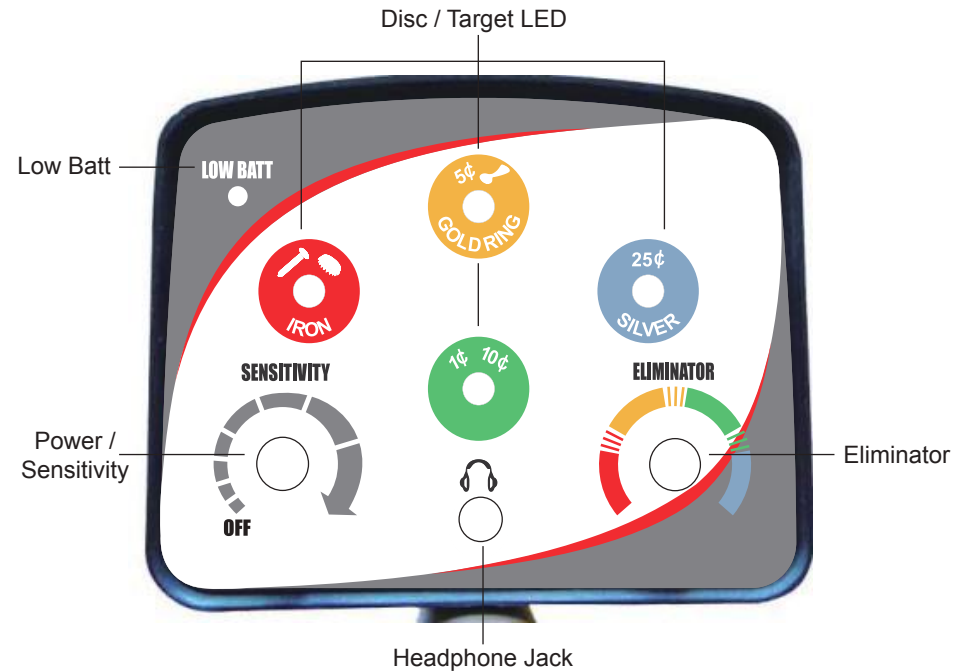
- Set the volume to the lowest setting before you begin listening.
- After you begin listening, adjust the volume to a comfortable level.
- Do not listen at extremely high volume levels. Extended high volume listening can lead to permanent hearing loss.
- Once you set the volume, do not increase it. Your ears adapt to the volume level over time, so a volume level that does not cause discomfort might still damage your hearing.

Traffic Safety

Do not wear headphones while operating your detector near high-traffic areas. Even though some earphones are designed to let you hear some outside sounds when listening at normal volume levels, they still can present a traffic hazard.

FUNCTIONS AND INDICATORS

A Quick Look At The Detector



1. **ELIMINATOR**
 - **ELIMINATOR**— this mode can facilitate you to search for and discriminate the target type or eliminate the metal target you don't want.
 - **ALL METAL**— it is used to search for all kinds of metal object with **ELIMINATOR** set to min. position.
2. **SENSITIVITY** – it is used as power control and used to adjust the sensitivity. Rotate the control clockwise away from OFF to power on the detector. Rotate it fully counter clockwise to power off the detector. As you slowly rotate the **SENSITIVITY** clockwise, the sensitivity is gradually increased. In general case, user can set the **SENSITIVITY** to a high position. But in mineralized area, or area with electrical interference, it's better to lower the sensitivity properly.
3. **HEADPHONE**— insert the stereo headphones' 3.5mm plug into the **HEADPHONE** jack. In this case, the internal speaker is disconnected.
4. **LED** – there are four different color LEDs for four types of metal targets. When target is found, LED lights for relative target.
 - Blue LED: for 25¢ / Silver
 - Yellow LED: for 5¢ / Pull Tab / Some Gold Ring

- Green LED: for 1¢ / 10¢ / Zinc / Copper
 - Red LED: for Iron.
5. LOW BATT – when battery is low, LOW BATT LED lights to remind user replacing batteries.

OPERATION

Your metal detector has two operation modes: ELIMINATOR, ALL METAL. ELIMINATOR and ALL METAL are motion modes. You have to move the coil to find the target.

1. Rotate SENSITIVITY control clockwise away from OFF to turn on the detector.
2. Set SENSITIVITY to about 14:00 o'clock.
3. Rotate ELIMINATOR counter clockwise to the end. In this case, the unit can detect all kinds of metal.



As you rotate the ELIMINATOR clockwise you can eliminate iron, 5¢ /pull tab, 1¢ / 10¢ zinc/copper in turns. Please be aware that 25¢ / silver can't be eliminated even if you rotate the control fully clockwise to the end.

For example, if you don't want iron, you can rotate ELIMINATOR to 1/4 position. Then, the detector will not have response to iron. Red LED will not light.

4. Place the detector on a wooden or plastic table. Remove any watches, rings, or metal jewelry you are wearing.



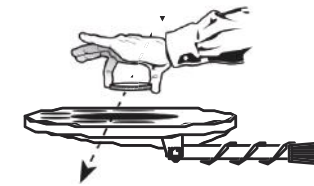
5. Adjust the search coil. Thus, the flat part faces towards the ceiling.

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

6. Slowly sweep a sample of the material you want the detector to find (such as a gold ring or a coin) 2-3 inches above the face of the search coil. When the detector finds the sample, it sounds a tone and the corresponding target LED will light. During searching, LEDs flash in turn. But LED of target eliminated does not flash.

Audio Tone	LED Indicator	Metal Type
High	Blue	25¢ / Silver
Mid-High	Green	1¢ 10¢ Zinc / Copper
Mid	Yellow	5¢ / Pull Tab or some Gold Ring
Low	Red	Iron, Nail, Bottle Cap

Note:
If you are using a coin to do test, you can hold it at a flat side which is parallel with the search coil. It can help the detector to detect it more easily.



A reference of the setting of ELIMINATOR:

	ELIMINATOR	ELIMINATOR	ELIMINATOR
Setting Position			
Target Eliminated	Iron / Nail Bottle Cap	Iron (Nail, Bottle Cap); 5¢ / Pull Tab (some gold ring)	Iron, Nail, Bottle Cap; 5¢ / Pull Tab (some gold ring) 1¢ 10¢ (Zinc / Copper)

OUTDOOR TESTING & USING

- Find an area on the ground outside where there is no metal stuff like sprayer in the yard.
- Place a metal sample you want the detector to find (such as a gold ring or a coin) on the ground.

Note:
If you are using a valuable metal objective such as gold to test the detector, mark

the area where you placed the item. It can help you find it later. Do not place it in tall grass or weeds.

- To run the test, please follow Step 2 & 3 within OPERATION section.

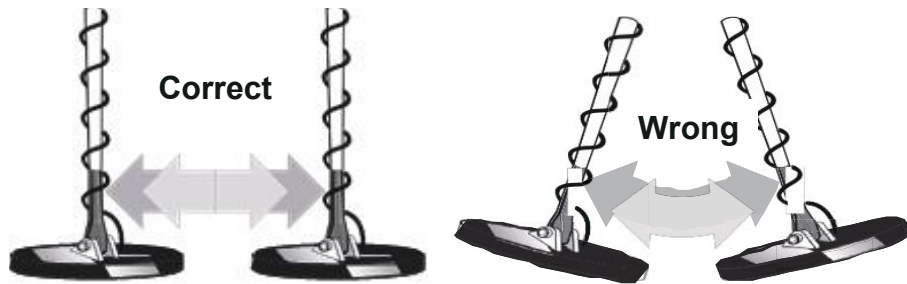
Note:

In order to detect the target deeply buried, you can adjust the SENS to a high position. However, please don't to set the level of SENS to Max position, or the detector will receive interference and false signal from broadcast antenna and other electronic lines. The detector will have unstable and irregular indications.

Sweep your search coil as following picture, move the search coil right and left in an arc line. For not missing any target, it is better to keep the distance from search coil to the ground about .5-2 inches/ 1 – 5 cm (closer to the earth for smaller target) and the distance between two neighboring arcs is about 3.94-5.91 inches/ 10 – 15cm.



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



FACTORS THAT AFFECT THE DETECTING

It's difficult to have an accurate detecting result. Sometimes the detecting may be restricted by some factors:

- The angle of the target buried in the soil.
- The depth of the target.
- The level of oxidization of the target.

- The size of the target.
- Electro-magnetic and electrical interference surrounding the target.

In area of highly mineralized ground or wet sand, the detector will sound even if there is no metal. In this case, you can lower the sensitivity or increase the DISC numeric value. Meanwhile, enhance the distance between the search coil and the ground. At area with trashy metal, you can set ELIMINATOR to 2/4 position. In this case, most nails and small pieces of iron will be eliminated.

Metallic digging tools will also affect the detection if they are near the search coil. So it's better place them a little far away.

CARE AND MAINTENANCE

Your metal detector is an example of superior design and craftsmanship. The following suggestions will help you care for your metal detector, so you can enjoy it for years.

- 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 and tear 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.

TROUBLESHOOTING GUIDE

Problem	Reason	Suggestion
The detector sounds false signals.	Sensitivity set too high/ environmental electromagnetic interference.	Reduce SENSITIVITY.
	Sweeping the detector's search coil too fast or at wrong angle.	Sweep the search coil more slowly and hold the detector correctly. For more details, please see the section of "Testing and Using"
	Using 2 detectors in close proximity	Keep two detectors at least 6 meters(20') apart
The detector does not function	Five-pin cable not connected well	Re-plug it properly.
	Dead battery	Replace batteries