



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, excludes the Hawaiian Island and all U.S. territories in the Caribbean, Alaska and the Pacific

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 1.909.445.8168 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 \$20.00 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.



Pro-100R Metal Detector And Handheld Pinpointing Metal Detector



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Note: All information, feature, and specification displayed herein are based on the data available at the time of publishing, thus they are subject to change without notice. All product pictures displayed herein are for illustration purposes only. The actual product may vary due to different circumstances.

Metal Detector

Please read before using this equipment

Thanks for choosing this metal detector. With this detector, you can hunt for coins, relics, jewelry, gold, and silver just about anywhere, including lawns, snows, mountains and etc. The detector is versatile and easy to use.

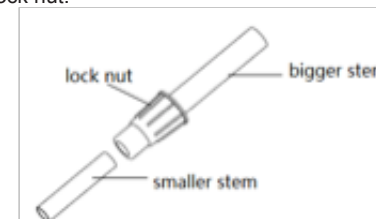
Features

- Two operating modes:
 - DISC - This mode can facilitate you to search for and discriminate the target type or eliminate the metal type you don't want.
 - ALL METAL - It is used to search for all kinds of metal object.
- LCD - LCD displays the type of the metal being detected, the probable target depth, as well as the battery condition.
- POWER - Used to power on or power off the detector.
- PHONE (Headphone) Jack (3.5mm)—lets you connect stereo headphones (not supplied) and operate without trouble.
- Waterproof Search Coil - lets you use the detector even if you must put it in shallow water.
- Adjustable Shaft - lets you adjust the detector's length for comfortable use.
- Power - The metal detector requires two 9-volt alkaline batteries (not supplied).

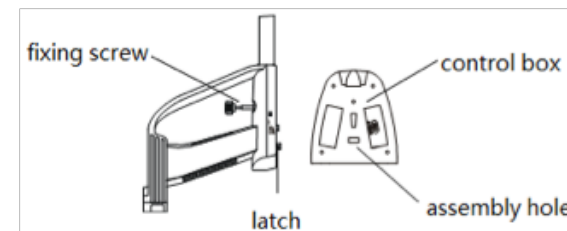
Preparation

Assembling The Detector

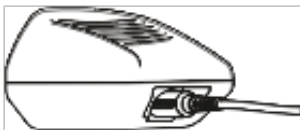
1. Assembling the detector is easy and requires no special tools. Just follow these steps.
2. Unscrew the knobs on the search coil and remove the knobs and the connector. Insert the smaller stem and align the holes on the search coil bracket and the stem. Push the connector through the holes, then replace and tighten the knobs.
3. Slightly loosen the lock nut on the bigger stem. Insert the smaller stem into the bigger one and tighten the lock nut.



1. Insert the latch on the top of the handle into the assembly hole on the bottom of the control box. Then slightly push the control box in the direction of IN on the handle to fix the latch in place.



4. Tighten the fixing screw properly.
5. Insert the search coil cable plug into the five-pin jack on the back control box's housing.



6. Lengthen or shorten the stem, so when you stand upright with the detector in your hand, the search coil is level with and about 1~5cm above the ground. After that tighten the lock nut.

Caution:

- The search coil cable plug fits into the connector only one way. Do not force the plug or you could damage it.

Adjusting The Stem

Follow these steps to adjust the metal detector's stem.

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 1/2 to 2 inches above the ground with your arm relaxed at your side.
3. Turn the stem's lock nut counter clockwise to lock it in place.

Adjusting The Search Coil

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

Installing The Battery

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

Caution:

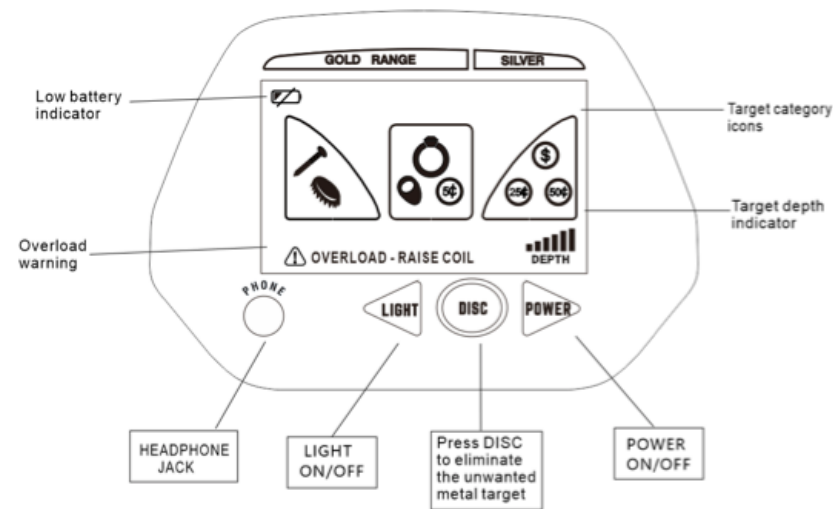
- If you don't plan to use the unit for a week or more, remove the batteries. Batteries can leak chemicals that can destroy electronic parts.
- Dispose old batteries promptly and properly. Never bury or burn them.

- When low battery indicator  displays on LCD, replace the battery.

Using Headphone

Insert the stereo headphone's 3.5mm plug into the PHONE jack at the front panel. At this time the internal speaker is disconnected.

A Quick Look At The Detector



1. POWER - Power ON/OFF switch button. Press the button to power on the detector. Press it again to power off the detector.
2. DISC - Used to discriminate the target type or eliminate the metal target you don't want.
3. LCD - displays the type of metal being detected, the probable target depth, as well as the battery condition.

OPERATION

Your metal detector has two operation modes: DISC, ALL METAL. These are motion modes. You have to move the search coil to find the target. Please follow the steps below:

1. Press POWER button to power on the detector. LCD will display all symbols. After about two seconds, LCD will display three blank frames. At this time, you can start operation. In this case, you can detect all kinds of metal. When the detector finds metal object, it sounds and LCD displays the black frame with target icon. Target depth would also be displayed on LCD.

Note: The depth is reference only. Actual target depth may be varied.

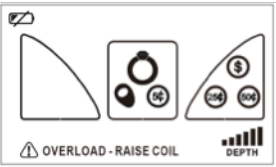
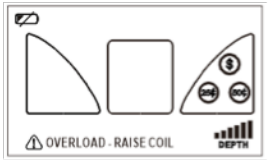
2. You can use DISC control button to eliminate the unwanted metal type. Two kinds of metal (the first and second category) can be eliminated. **But 25¢ can't be eliminated.** To eliminated category, the detector will not have response.

Setting of DISC (Discriminating)

If DISC is not pressed, the detector is available for ALL METAL mode. You can detect all kinds of metal.

Press DISC once to eliminate ferrous (iron) targets. The first frame will not display on the LCD. Iron will not be detected. Press DISC again to eliminate iron, 5 cent, nickels, small jewelry, pull tabs, screw caps, bottle caps. The first and second frames will not display on the LCD. In this case, only US quarter, silver targets, some of copper items can be detected.

The table below is a reference for you to set the discriminating range.

Setting Range		
Target Eliminated	Iron /nail, bottle cap, screw	Iron / nail, bottle cap, screw, 5¢ / pull tabs, screw caps, some gold ring, bottle caps, zinc objects, some copper items.

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

4. Adjust the search coil so the flat part points towards 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're testing or mask the signal completely.



5. 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 icon would be displayed on LCD.

For example, when nail or iron target is found, icons would be displayed on LCD.

Note: If you are using a coin, the detector will detect it more easily if you hold a flat side parallel with the flat side of the search coil.



Audio Tone & LCD Target Indications

Low Tone		Indicates that the target is probably iron or nail, screw, bottle cap. Some oxidized iron might register somewhere within the range of 25¢.
Medium Tone		Indicates that the target is probably 5¢, aluminum can, pull tab, nickel or some small gold ring. 1¢ or zinc penny or a copper coin would also fall in this category.
High Tone		Indicates that the target is probably silver coin, 25¢. Some large aluminum coin and copper items might register within this category.

Overload Warning

If a large metal object or highly magnetic soil is too close to the search coil, the detector will "overload". LCD will blank and display blinking "OVERLOAD-RAISE COIL". The detector will also alert with a special sound. Overload will not be harmful to the detector, but will affect the function under these conditions. If overload occurs, raise search coil to detect the metal target, or change a searching place.

Outdoor Testing And Using

- Find an area on the ground outside where there is no metal.
- 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.
- Follow the steps described in OPERATION and refer to the setting of DISC.
- 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 1 – 5cm (closer to the earth for smaller target) and the distance between two neighboring arcs is about 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.



When the detector finds the sample, it sounds a tone and the corresponding target icon will be displayed on LCD.

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 enhance the distance between the search coil and the ground or change the searching place.

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.

Troubleshooting

Problem	Reason	Suggestion
Sounds without detecting any metal	The detector may receive interference and false signal from broadcast antenna and other electronic lines	Change searching place
Sounds false signal	Maybe the target is oxidized	Enhance the height between the search coil and the ground
	The target is extremely large	
The detector does not detect anything	Sweep the search coil too fast	Sweep the search coil slowly.
	Search coil is not parallel with the ground	Adjust the angle of search coil and make it parallel to the ground.
	The surface of the buried is too narrow	Test the flat surface of the target
	Target range is eliminated when setting DISC.	Recover the DISC setting range
	Low battery power	Change the battery

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.

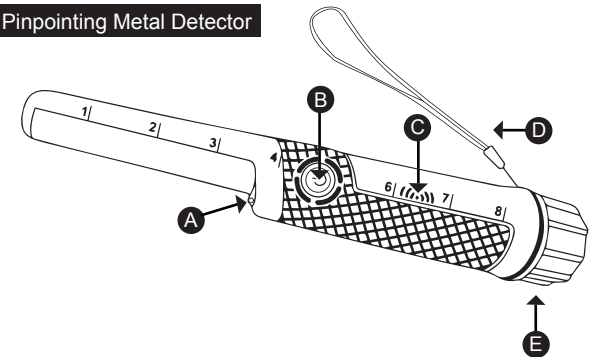
	Handle the detector gently and carefully. Dropping it can damage circuit boards and cases and can cause the detector to work improperly.
	Use the detector only in normal temperature environments. Temperature extremes can shorten the life of electronic devices, damage the cases of the detector.
	Keep the detector away from dust and dirt, which can cause premature wear 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.



Read all instructions before using this handheld pinpointing metal detector

Parts Of The Handheld Pinpointing Metal Detector

- A. LED Light
- B. Power Button
- C. Buzzer
- D. Wrist Strap
- E. Battery Cover



Product Features

Target Indication

There are three types of target indication: sound, vibration, sound & vibration. When a target is located the detector alarms with pulses of vibration or audible sound, or both audible sound and vibration.

Target Distancing

As you get closer to the target the vibration, the rate of the pulsing audio and/or vibrations will increase proportionally.

Mini LED Light

LED light is useful in dark area.

Automatic Tuning

Requires no adjustment.

Memory

The detector memorizes the current setting when power turns off.

Unique Sealed Design

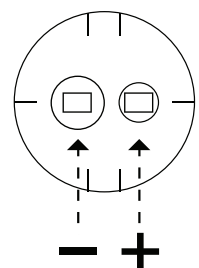
Allows detecting in any environment including grass, mud, dirt, sand, and black sand.

Battery Installation

To open the battery compartment, rotate the battery cover counter-clockwise.

Connect a standard 9 volt alkaline battery to the battery connector and insert the battery into the detector making sure the polarity is matched correctly. Then turn the battery cover clockwise until hand tight to assure a water-tight seal. Please remove battery when detector is to be stored for more than 1 month.

Inside of Battery Compartment



Turn On The Detector

Press power button to turn on the detector while holding the detector away from any metallic objects. A steady light indicates unit is ready for operation.

Change The Mode

Press power button once to change the mode. 3 modes Vibration, Sound, Vibration and Sound

Turn Off The Detector

After use, press the power button holding for about two seconds to turn off the detector.

Detecting A Target

After turning on the detector, you can start detection. First you can select one type of target indication by pressing power button. Sound and pulses of vibration increase in quantity as the closer the detector is to a detected target. The quantity of pulses is proportional to the target size and distance. The bigger the target, or the closer the detector is to the target, the higher the pulse counts.

Note:

The pinpointer will suspend the operation after continuous detection above same target for about 10 seconds in order to save battery power. At this time the flashlight keeps light. Will recover the detection for new target after about 1 second.

Low Battery Indication

If the unit sounds and vibrates, also LED flashes continuously for about 15 seconds, this indicates that the battery is low. Please replace the battery.

NOTE

- If no metal is detected within twenty minutes, the detector will automatically turn off.
- The detector memorizes the current setting when power turns off.
- You can secure the detector to your wrist using the attached wrist strap.
- Before submerging the detector make sure the battery compartment seal is secure.
- Always use high quality batteries such as alkaline or nickel metal hydride (NiMH).

Ground Balance	Auto-balance
Audio Identification	Yes
LED Indication	Yes
360 Degree Detection	Yes
Sensitivity (in) for U.S. Quarter	1.38 inch (3.5cm)
Waterproof	No
3 Operating Modes	Audio
	Vibration
	Audio and vibration
Battery	1x9V (not included)
Low Battery Indicator	Yes
Accessory	Wrist strap and holster