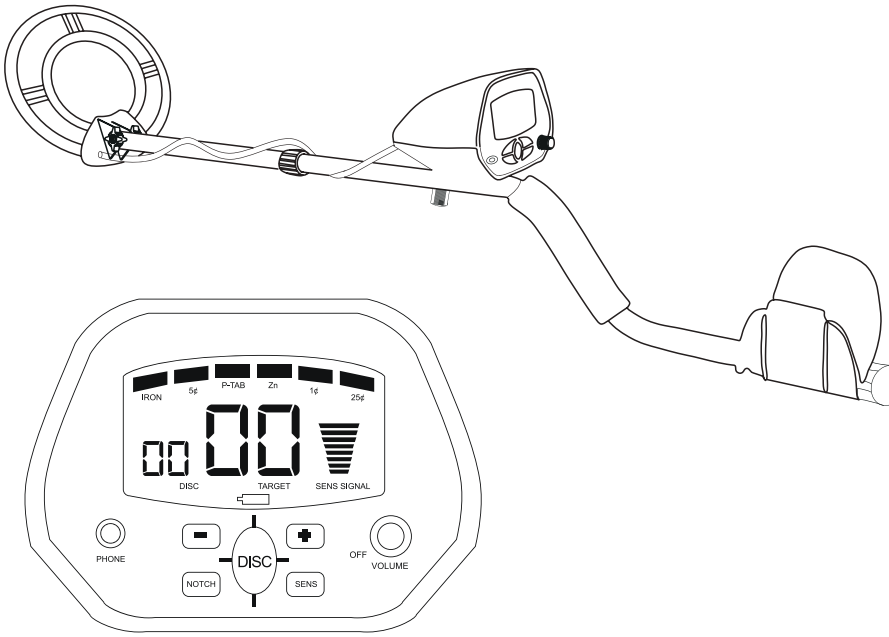
WINBEST®

by BARSKA®

Pursuit-200 Edition
Metal Detector



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Notes Before Use

- This metal detector is a professional metal detector. As a sophisticated electronic device, the most difficult aspects in metal detecting have been preset.
- If you are new to using metal detectors, it is recommended to set the sensitivity to a low level in the event of false signals.
- Always begin at a low sensitivity level when using. After you have become familiar with the detector, you may try it at full sensitivity.
- 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, turn the sensitivity low and 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.

Terminology

The following terms are used throughout the manual and are common terminology among detectorists.

Elimination
Reference to a metal being “eliminated” means that the detector will not emit a tone, nor light up an indicator, when a specified object passes through the coil’s detection field.

Discrimination
When the detector emits different tones for different types of metals, and when the detector “eliminates” certain metals, we refer to this as the detector “discriminating” among different types of metals. Discrimination is an important feature of professional metal detectors. Discrimination allows the user to ignore trash and otherwise undesirable objects.

Notch
Notching is the elimination of an item, or range of items, within the metallic spectrum. We “notch-out” an object, or objects, selectively.

Relic
A relic is an object of interest by reason of its age or its association with the past. Many relics are made of iron, but can also be made of bronze or precious metals.

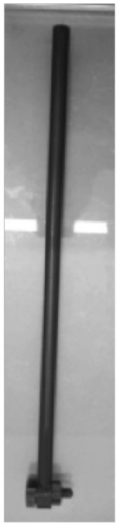
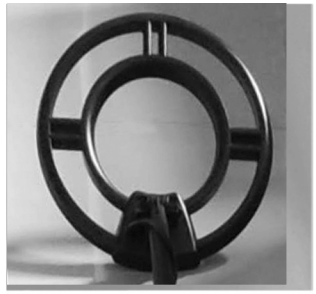
Iron
Iron is a common, low-grade metal that is an undesirable target in certain metal detecting applications. Examples of undesirable iron objects are old cans, pipes, bolts, and nails. Sometimes, the desired target is made of iron. Property markers, for instance, contain iron. Valuable relics can also be composed of iron; cannon balls, old armaments, and parts of old structures and vehicles can also be composed of iron.

Ferrous
Metals are made of, or contain, iron.

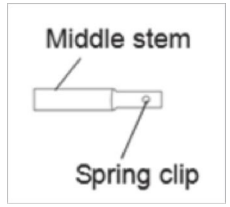
Assembly

Assembling the detector is easy and requires no special tools. Just follow these steps.

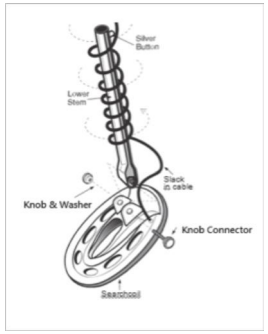


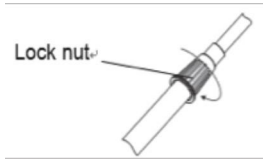

1. Depress the spring clip in the middle stem and insert it into the top stem aligning the clip with the hole.



2. Unscrew the knobs on the lower stem and remove the knob, washer and the connector. Insert the lower stem and align the holes on the search coil bracket and the stem. Push the connector through the holes and washer, then replace and tighten the knob.



3. Loosen the middle stem's lock nut in the direction of the arrow. Then, insert the lower stem into the middle stem. Turn the stem's lock nut in the reverse direction of the arrow to lock it in place.



4. Unscrew the bolt of the control box and hitch the control box to the top stem. Then, insert the bolt into the assembly hole on top stem and tighten it with the box.

5. Wind the cable around the stem. Insert the search coil cable plug into the five pin jack at the bottom of control box's housing.

Caution:
• The search coil cable plug fits into the connector only one way.
• DO NOT force the plug or you could damage it.
• DO NOT disassemble the stem lock nut.

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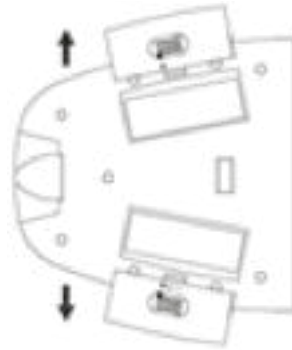
ADJUSTING THE SEARCH COIL

Loosen the knobs at the search coil's end; 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.

INSTALLING BATTERY



You need two 9V alkaline batteries to power your detector.

1. If the detector is on, turn the power switch (on the control panel) to POWER OFF.
2. Press on the battery compartment cover and slide the cover off in the direction of the arrow.
3. Connect the battery with the battery connector taking care of the polarity. Then put the battery into the compartment.
4. Replace the cover.

Cautions:
• Use only fresh batteries of the required size and recommended type.
• Always remove old or weak batteries; batteries can leak chemicals that can destroy electronic parts.
• If you do not plan to use the detector for a long time, remove the batteries.
• Dispose of old batteries promptly and properly.
• You can extend battery life by using earphones, which require less power than the built-in speakers.

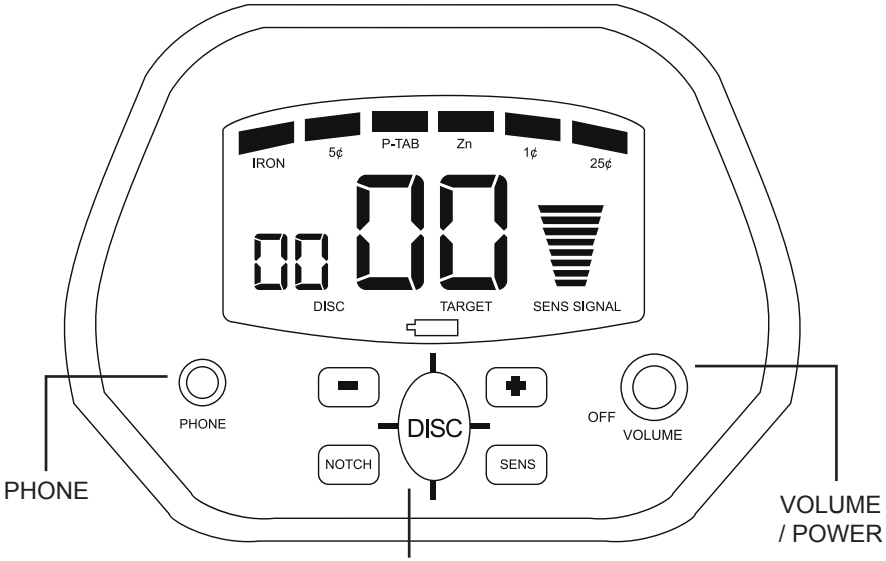
Headphones

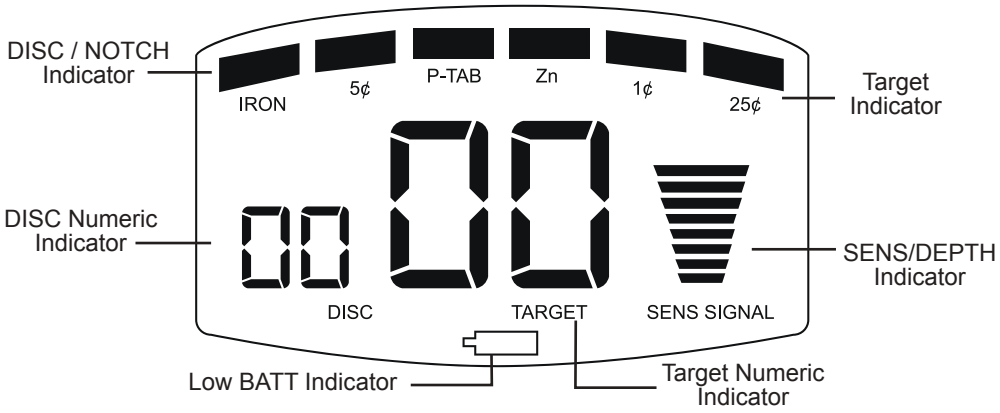
1. It is recommended to choose the headphones with volume control.
2. Insert the headphones' 3.5mm plug into the PHONE jack. At this time the internal speaker disconnects.
3. Set the VOLUME to the desired setting.

Listening Safely

- To protect your hearing, set the volume to the lowest setting.
- Before 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.
- Do not wear headphones while operating your detector near high-traffic areas. Pay attention to traffic safety.

Control Panel





Operation

Control Buttons

PHONE	Insert the headphones' plug of 3.5mm into the PHONE jack for private listening.
VOLUME/POWER	Adjusts the volume level and turns on or off the unit.
NOTCH	Press NOTCH, then + or – to select the target to be notched. The cursor above the selected target will flash. Press NOTCH again, the target name below the cursor will disappear.
DISC numeric range (0-80)	Press DISC then + or – to select the desired DISC number. If the target material is beyond the DISC range, it can't be discriminated. Note: The highest DISC numeric setting is 80. If you set the DISC number to 80, all targets less than this number will not be detected.
SENS	Press SENS then + or – to increase or decrease the sensitivity. LCD will display the current setting of sensitivity. If the target depth is beyond the max. sensitivity of the detector, the target will not be found.

Power On

Turn the VOLUME switch clockwise to power on the metal detector. LCD will display all symbols. Meanwhile the detector sounds low, medium, high tones respectively. After about 2 seconds the detector enters into stand-by mode. At this time the default mode is DISC and LCD displays "DISC of 00" and "SENS of 6 bars".

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 and Use

1. Position the detector:
a. Place the detector on a table with the search coil hanging over the edge.
b. Keep the search coil away from walls, floors and metal objects.
c. Remove watches, rings, jewelry and other metal items you wear.
d. Adjust the search coil, so the flat part faces towards the ceiling.

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

e. Turn the VOLUME switch clockwise to power on the metal detector.

2. Set up operating modes:
1) Demonstrate DISCRIMINATION Feature:
a. Press DISC and then press + or - to set the DISC numeric value.

b. If the value of DISC is set to 00, the detector can detect all metals.
c. If you want to find one of the "Target Indicator" listed on the LCD, you can set the relative numeric range of DISC by pressing DISC then + or -. For example, the numeric range for 5¢ is 6-17, you can simply press DISC, then set the DISC

number to 7 or 10 by pressing + or -. If the detector finds a coin of 5¢, the cursor above 5¢ will light.
d. You can also ignore the unwanted target by setting the DISC numeric value. If the value is beyond the relative numeric range of the target, the target name will not be displayed on the LCD. Meanwhile, the detector will not have reaction to the target. For example, the numeric range for IRON is 0-5. If you set the DISC numeric value to 6, IRON will not be displayed on LCD. Meanwhile the detector will have no reaction to IRON during the detection.

You can ignore the unwanted target on LCD one by one from left to right by setting the relative DISC numeric value.

Note:
• It is recommended to select the lower or medium value of the numeric range. If you select a top value, you might miss the targets below the selected value.
• If you don't press the buttons (DISC/+/-) within about 2 seconds, the detector will enter the standby mode.
• 25 ¢ can't be ignored, because it is made of valuable material.

2) Demonstrate NOTCH Feature:

a. Press NOTCH and then press + or - to select the Target Indicator to be notched. The cursor above the selected target will flash.

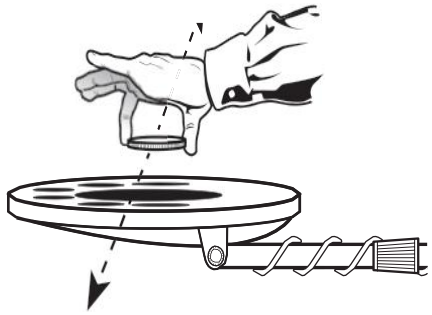
Press NOTCH again and the selected target ID will disappear.
It means that this target will be notched during the detection, and the detector will have no reaction to the notched target.

b. If you want to add the notched target back, press NOTCH first and then Press + or – to move the cursor to the target ID you want to add back. Press NOTCH again and the target ID should be added back. If NOTCH is not pressed within about 3 seconds, the detector will enter standby mode.

Note:

- It is not recommended to notch all targets listed on the LCD screen; notching all settings will filter out all metals, so you will not be detecting anything.
- If you want to select the setting of DISC or SENS after pressing NOTCH, you have to wait for about 3 seconds until the cursor above the target has been notched out.

3. Set up sensitivity:
   Press SENS and then press + or – to set the sensitivity. The default level is of 6 bars.
   Note: if you don't press the buttons (SENS/+/-) within about 2 seconds, the detector will enter the standby mode.



4. Test with samples:
   Slowly sweep a sample of the material you want the detector to find (such as a gold ring or a coin) 2-3 inches or more above the face of the search coil. When the detector detects any metal target, it sounds a tone and the cursor above the target name will light. Also, LCD displays the numeric value of target as well as the depth (signal strength) of it. Please note that the depth (signal strength) is only a reference, not the exact depth of the target.

Note:
If you are using a coin, the detector will detect it more easily when you hold it with the flat side being parallel search coil. A sweep with the vertical side of coin over search coil might cause false indication and unstable display of target.

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Target Indications

Numeric Ranges of Target

IRON	00-05
5¢	06-17
P-TAB	18-26
ZN	27-38
1¢	39-62
25¢	63-99

Note: There are a wide variety of meals and no target be be identified for certain until unearthed. This table is general reference only.

Types of Target

IRON	It indicates that the target is probably iron.
5¢	It indicates that the target is probably 5¢ or a nickel. Some small gold rings might register within this range.
P-TAB	It indicates that the target is probably a pull tab of an aluminum can. Some small gold rings might register within this range.
ZN	It is indicated that the target is probably a type of metal of zinc alloy or copper coin. Some medium sized gold rings might register within this category.
1¢	It indicates that the target might be a zinc penny. Some large rough gold items might register within this category.
25¢	It indicates that the target is probably 25¢ or a silver coin.

Tones

Low Tone	IRON, 5¢, same as for foil, bottle cap or nickels.
Medium Tone	P-TAB, ZN, 1¢(aluminum pull tabs, zinc or copper items.
High Tone	25¢,same as for brass or silver items.

The detector comes with three tones for different types of metal and the built-in audio identification system sounds a unique tone for each of three metal categories. This makes it easier to identify the metal being detected.

Note:
When you set the detector to DISC or NOTCH mode, the detector sounds a medium or high tone when it detects highly oxidized iron. Depending on the purity, about 15 percent of gold rings cause the detector to sound a medium tone.

Outdoor Testing and Use

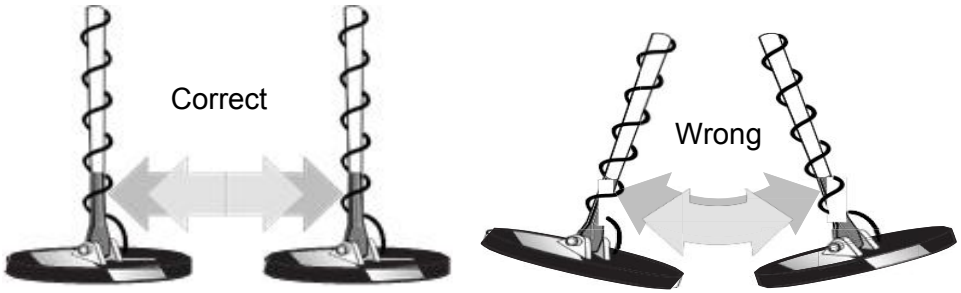
1. Turn the VOLUME switch clockwise to power on the metal detector.
2. Follow the steps of 2 described in section of “Indoor Testing and Use” to set the operating mode.
3. Find an area on the ground outside where there is no metal stuff like sprayer in the yard.
4. Place a metal sample you want the detector to find (such as a gold ring or a coin) on the ground.

Note:
If you are using valuable metal such as gold to test the detector, mark the area where you place the item, to help you can find it later. Do not place it in tall grass or weeds.

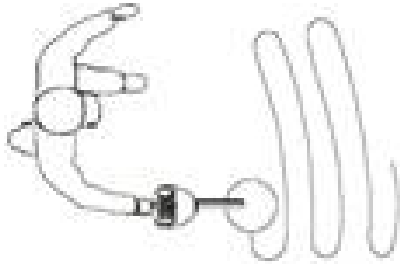
5. Hold the search coil level to the ground about 1-2 inches above the surface and slowly move the search coil over the area where you placed the sample, sweeping the search coil in a side-to- side motion.

Search Coil Sweeping Hints

• 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.



• Sweep slowly. Hurrying will cause you miss targets.



• It is better you sweep the search coil from side to side in an arc line of 3 inches motion and keep the search coil parallel with the ground.

If the detector detects the target, it sounds a tone and the cursor above the target ID will light. Also, LCD displays the numeric range of target as well as the depth (signal strength).

If the detector does not detect the target, make sure that the mode is set correctly for the type of metal you are searching for. Also make sure that you are moving the search coil correctly.

Notes:
• The detector responds with a signal when detects most valuable metal objects. If a signal does not repeat after you sweep the search coil over the target a few times, the target is probably junk metal.
• False signals can be caused by trashy ground, electrical interference, or large irregular piece of junk metal.
• False signals are usually broken or non-repeatable.

Adjusting SENSITIVITY

After you become familiar with how your detector works, it is important to adjust the sensitivity to get a good effect. Press the SENS button on the panel and press + or – to increase or decrease the level of sensitivity. The level will be displayed on the LCD.

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

Pinpointing The Target

Accurately pinpointing a target makes digging it up easier but users have to practice more. We suggest you practice finding samples on your own property before you search other locations.

Follow these steps to pinpoint a target.

- 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 exact spot on the ground where the detector beeps.
- Stop the search coil directly over this point on the ground. Move the search coil straight forward away from you and straight back towards you a couple of times.
- Repeat steps 1-3 at a right angle to the original search line. Make a mark of “X”. The target will be directly below the “X” at the point of the beep response.

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. At the meantime, enhance the distance between the search coil and the ground.

In area with trashy metal, you can set DISC numeric value to 50. 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 to place them a little bit far away.

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Troubleshooting Guide

Problem	Reason	Suggestion
The detector displays or sounds without detecting any target	The detector may receive interference and false signal from broadcast antenna and other electronic lines	Change searching place
	The humidity of environment may be extremely high	Wait for some time to check again
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
	Using 2 detectors in close proximity	Keep two detectors at least 6 meters (20’) apart
LCD display multiple target categories or emits several sounds at once	There may be over one kind of metal targets	Reduce the sensitivity to eliminate the detection of the deeper target
	The detector can’t identify the target. Sometimes, oxidized metal also causes the excursion of target arrow and tone.	Sweep the search coil with different angles
The detector does not function	Five-pin cable not connected well	Re-plug it properly
	Dead battery	Replace batteries

Care and Maintenance

Handle the detector gently and carefully. Dropping it can damage circuit boards 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, causing internal damage to 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.

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.

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 service@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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