

WINBEST®

by **BARSKA®**

Pro-200 Edition Metal Detector



CONTENTS

Preparation	4
Parts of the Metal Detector	4
Assembly	5
Batteries	7
Headphones	8
Control Panel	8
Operation	8
Testing And Using The Detector	9
Factors That May Affect Detection	11
Care and Maintenance	11
Troubleshooting	12
Reassemble Locknut For Metal Detector	13
Warranty	14

Notes Before Use

- If you are new to use metal detectors, it is recommended to set the sensitivity to a median level. Lower the sensitivity slightly in the event of false signals.
- If the sensitivity is set too low, it may miss some valuable target. 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, 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.
- Operates on one 9V alkaline battery (not supplied). Do not use Heavy Duty batteries. Do not use ordinary Zinc-Carbon batteries.
- Read this manual before using.

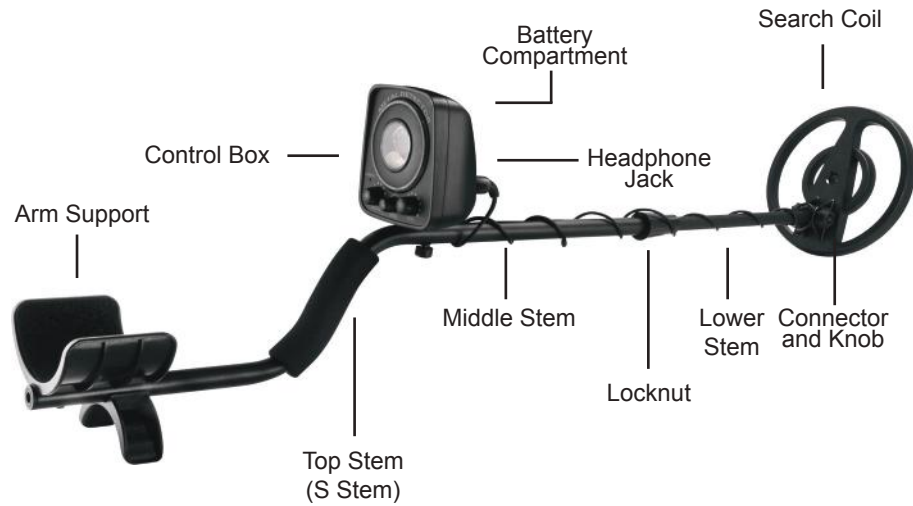
Treasure Hunter's Code Of Ethics

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.

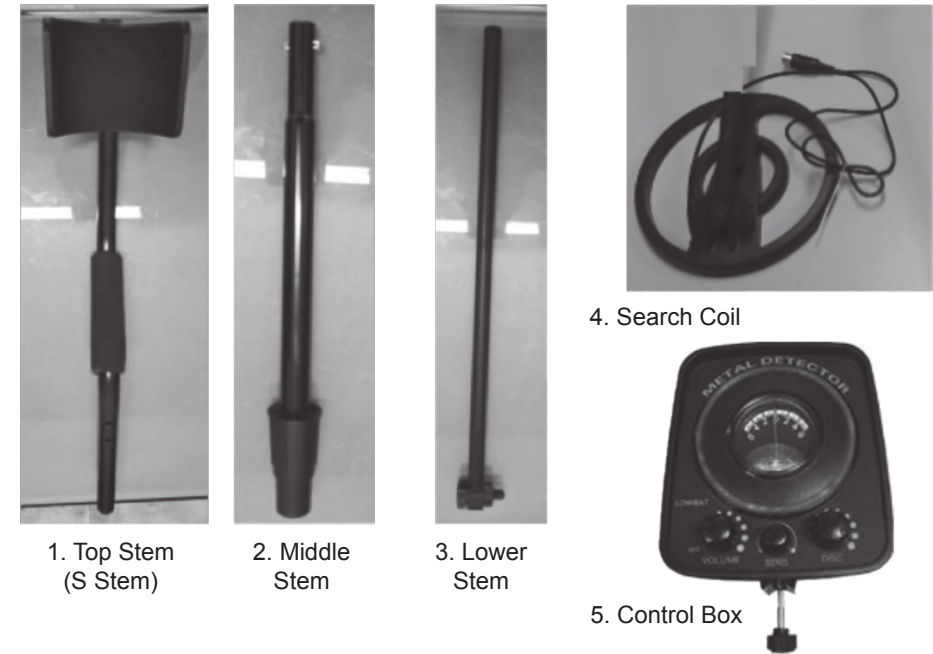
Preparation

Parts of the Metal Detector

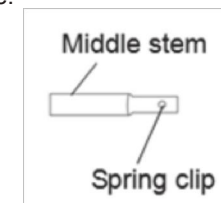


Assembly

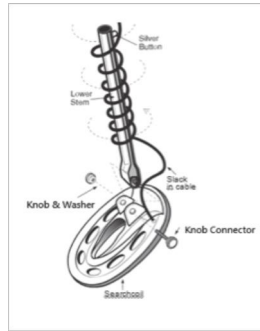
Assembling the detector is easy and requires no special tools. Just follow these steps.



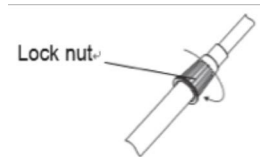
1. Depress the spring clip in the middle stem (2) and insert it into the top stem (1) aligning the clip with the hole.



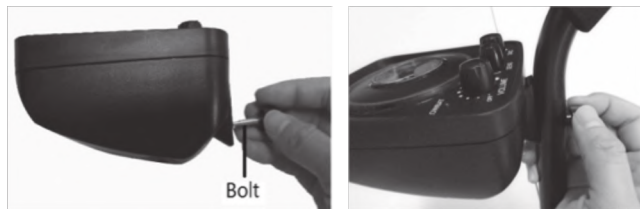
2. Unscrew the knobs on the lower stem (3) and remove the knob, washer and the connector. Insert the lower stem and align the holes on the search coil (4) bracket and the stem. Push the connector through the holes and washer, then replace and tighten the knob.



3. Loosen the middle stem's lock nut in the direction of the arrow. Then, insert the lower stem (3) into the middle stem (2). 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 (5) 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 (5).



6. When you stand upright with the detector in your hand, the search coil is level with and about 0.5~2 inches / 1~5cm above the ground. You can lengthen or shorten the stem basing on your height. After figuring out the suitable length, then tighten the lock nut.

Caution: The search coil cable plug fits into the connector only one way. Don't force the plug or you could damage it.

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 one 9V alkaline battery 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

You can connect a pair of headphones (not supplied) to the detector so you can listen privately. Using earphones also saves battery power and makes it easier to identify subtle changes in the sounds you hear, for better detection results. To connect earphones to the detector, insert the earphone's 3.5mm plug into the EAR jack on the control panel.

Note: The detector's internal speaker disconnects when you connect earphones.

Listening Safely

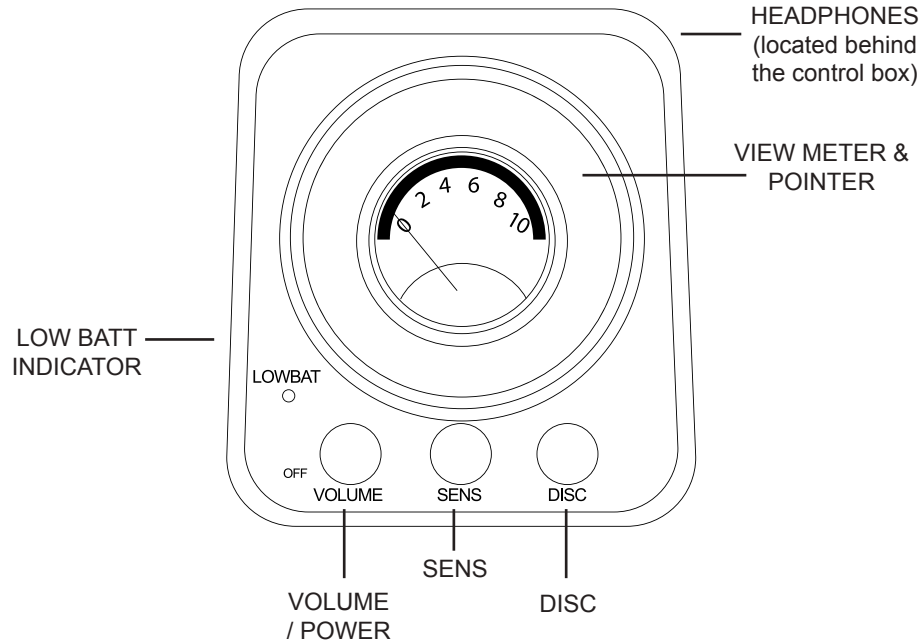
To protect your hearing, follow these guidelines when you use earphones.

- 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. Over time, your ears adapt to the volume level, 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.

Control Panel

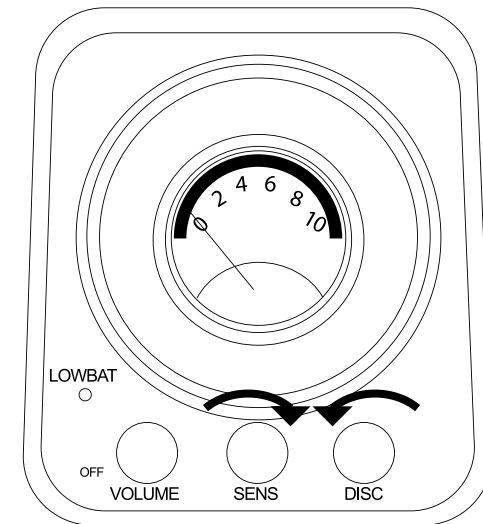


LOW BAT	When indicator lights up, replace the battery immediately.
VOLUME/POWER	Rotate the control clockwise to power on the unit. Rotate it fully counter clockwise to power off the unit.
SENS	Rotate the control clockwise to get higher sensitivity. Rotating it counter clockwise to decrease it.
DISC	Rotate the control clockwise away from ALL METAL to get DISC mode. The DISC mode comes with auto ground balance. Rotate the control slowly and clockwise to eliminate different trash objects.
	Rotate the control counter clockwise to the end to get ALL METAL mode. All METAL also comes with auto ground balance. It's used to find not only ferrous metal, but also non-ferrous one
VIEW METER	When unit finds any metal target , the meter pointer swings to the right.
HEADPHONES	3.5mm headphone jack for headphones.

Operation

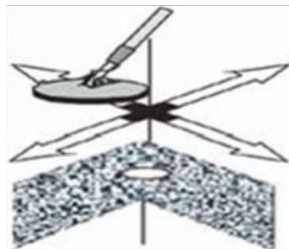
Testing and Using the Detector

The metal detector has two operation modes: ALL METAL & DISC. All metal is used to find all kinds of metal targets. DISC is used to discriminate the metal type.



1. To set the operation mode to ALL METAL: turn DISC knob counter clockwise to the end and turn SENS knob to high position.

- Then, hold the search coil parallel with the ground about .5-2 inches/ 1-5 cm above the surface. Sweep the search coil from side to side in an arc line of 2.75 inches/ 7 cm motion.
- When the detector detects a buried target, it sounds a tone. User can 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.
- Meantime slowly rotate the DISC control clockwise away from ALL METAL until the unit does not sound or sounds short tone. You can identify what kind of metal is REJECTED according to the setting position of DISC.



A reference for you to know what kind of metal is rejected depending on the DISC setting.

Setting of DISC	Metal Rejected
Near 11:00	Iron
Near 12:00	Iron, Nickel coin(5¢), pull tab
Near 13:00	Iron, Nickel coin(5¢), pull tab, Zinc coin(1¢ 87 version)
Near 15:00	Iron, Nickel coin(5¢), pull tab, Zinc coin(1¢ 87 version), Copper coin (1¢ 76 version)

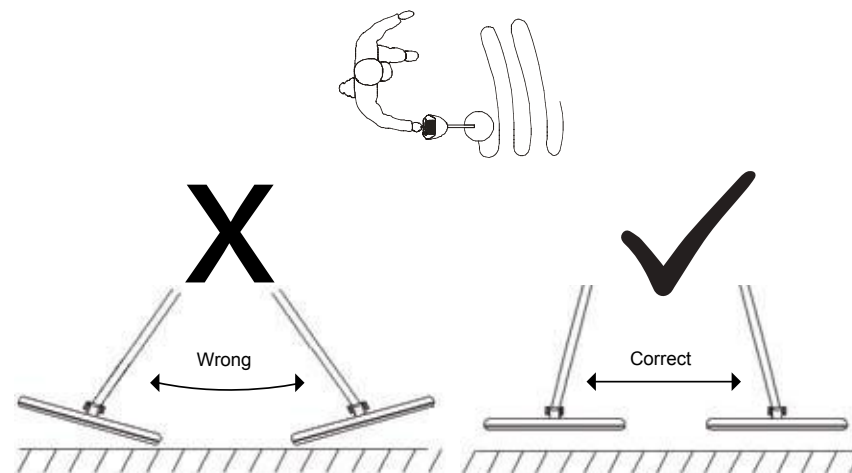
For example, if you set up DISC knob to the position near 12:00, it means that metal targets like Nickel coin, pull tab, or Iron should be eliminated. Therefore, when you detect a buried target and the detector beeps, it may be the metal target of Zinc coin, Copper Coin, or Silver.

When the DISC control is set to the clockwise end most of metal is rejected, except silver (25¢,50¢ and \$1).

Note: The above chart is for reference only. The actual result may be different by each metal detector.

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.



Factors That Affect The Detecting

It's difficult to have an accurate detecting result. It takes practice to get better detection results. Sometimes the detecting may be restricted by some factors.

- If there are interference from other instruments or electrical cable, TV or radio in your searching area, lower the sensitivity, or to change the current searching area.
- When searching in highly mineralized area, the unit will sound even if there's no metal. In this case, you can lower the sensitivity and increase the height between the search coil and the ground until the false signal disappears. If necessary, reset the DISC.
- When searching in trash area, it's better to set the DISC to 11:00 position, so that the unit can notch most of invaluable metals such as nails and small trashy iron.
- Move away any metal digging tool when searching.
- Sensitivity level is generally in contradiction with that of the discrimination. The higher the sensitivity level is, the worse discrimination will be. But you can lower the sensitivity to have better discrimination.

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 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.

Troubleshooting

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
Function.	Five-pin cable not connected well	Re-plug it properly.
	Dead battery	Replace batteries

Reassemble Locknut For Metal Detector

If you encounter the problem to insert the lower stem to upper stem, please reassemble the locknut by following the steps below



1. Turn the lock knob clockwise to loose it from upper stem (see image 1)
2. Place the lock knob on lower stem and make the small head toward the search coil (see image 2)
3. Insert the lower stem into top stem. Make sure that the lower stem completely inserts into 3 sections of plastic pieces (see image 3)
4. Move the lock knob upwards and turn counter clockwise until the locknut lock in place (see image 4)

