



Master-300 Metal Detector

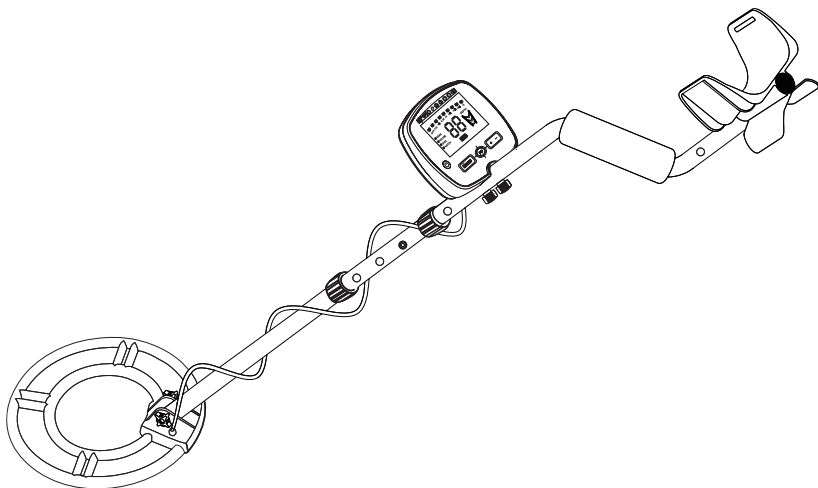


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Note: All information, feature, and specification displayed herein are based on the data available at the time of publishing, thus they are subject to change without notice. All product pictures displayed herein are for illustration purposes only.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

LCD Display

Shows the probable type of metal, the depth of the target, range of DISC, NOTCH, the level of SENS, VOLUME and battery condition. It also has digital display for target ID.

Three Tone Audio Discrimination

Sounds three distinctive tones (high, medium and low) for different types of metal.

Five Controls

- POWER Turns on or off the power.
- MENU Press it to select desired operation mode and the setting of SENS and VOLUME.
- INCREASE (+) Increase the level of sensitivity or volume and the range of DISC (discrimination) or NOTCH.
- DECREASE (-) Decrease the level of sensitivity or volume and the range of discrimination or NOTCH.
- PP Pinpoints the location of the target accurately.

Headphone Jack

3.5mm port for audio connection.

240mm Waterproof Search Coil

Submersible for shallow water use.

Adjustable Shaft

Customizable length to fit users height.

Power

The detector requires two 9-volt alkaline batteries (not included).

Backlight

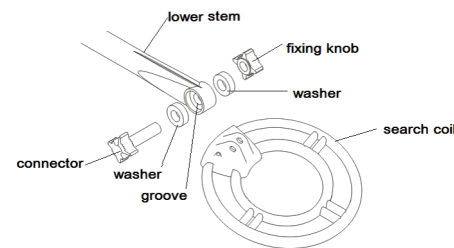
For better use in dark areas.

Assembling The Detector

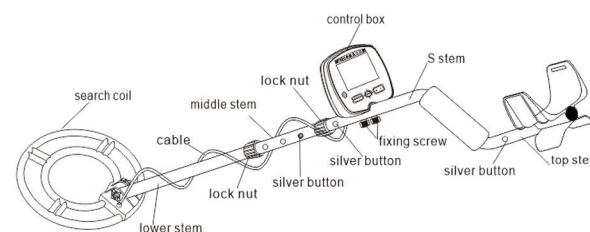
Assembling your detector is easy and requires no special tools. Just follow these steps



1. Unscrew the fixing knob on the search coil and remove the knob connector. Place the washers into the groove of the lower stem. Then insert the stem and align the holes on the search coil bracket and the stem. Push the connector through the holes and tighten the knob.



2. Press the silver button in the lower stem, and slide the stem into the middle stem.



3. Press the silver button in the middle stem, and slide the stem into the S stem. Tighten the lock nut on the S stem.
4. Press the silver button in the top stem, and slide the top stem into the S stem.
5. Adjust the stem to a length that you feel comfortable when you stand upright with the detector in your hand, and the search coil is level with the ground with your arm relaxed at your side. Then counter-clockwise rotate to tighten the lock nut on the middle stem.
6. Fix the control box on the S stem and tighten the fixing screw properly. Wind the search coil cable around the stem. Insert the search coil's cable plug into the five-pin jack at the back of the control box.

Caution

- Do not over-tighten the search coil or use tools such as pliers to tighten it.
- The search coil's plug fits into the connector only in one way. Do not force the plug and do not pull on the cable or you could damage it.

Installing The Batteries

1. Turn off the power before installing the batteries.
2. Slide the battery cover off in the direction of the arrow.
3. Place two 9V alkaline batteries into the battery compartment matching the polarity symbols (+ and -) marked inside.



Note

The detector will maintain full performance until the batteries need to be replaced. Replace batteries when there is no segment remaining on battery level indicator. Alkaline batteries should be used.

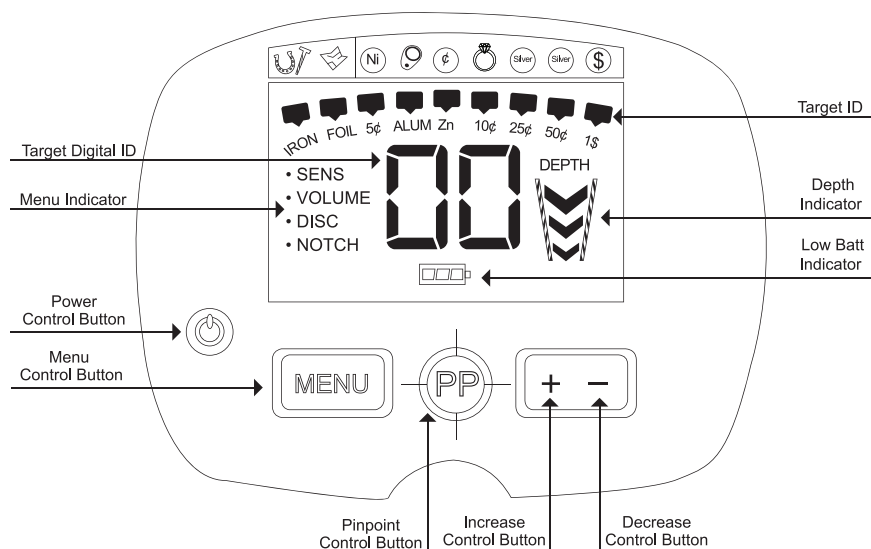
Cautions

- Use only fresh alkaline batteries of required size.
- Use 9-volt ALKALINE batteries.
- Do not use "Heavy Duty" batteries.
- Do not use ordinary "Zinc Carbon" batteries.
- Do not mix the old and new batteries or different types of batteries.
- If you don't plan to use the detector for a week or more time, remove the batteries.
- Batteries can leak chemicals that can destroy electronic parts.
- Dispose of old batteries properly. Never bury or burn them.

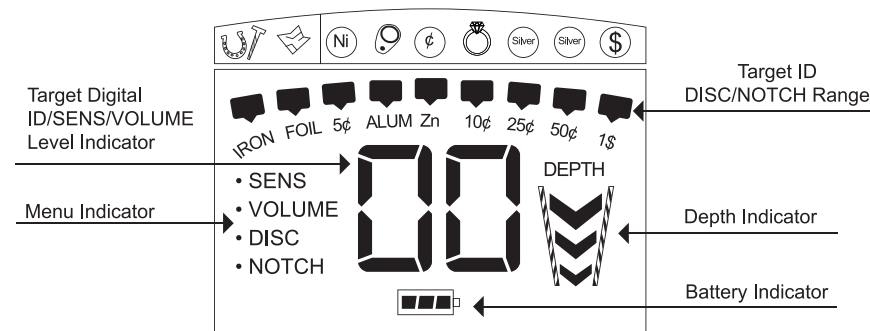
Using Headphones

1. It is recommended to choose the headphones with volume control.
2. Insert the headphones' 3.5mm plug into the headphone jack at the bottom of the control box. At this time the internal speaker disconnects.

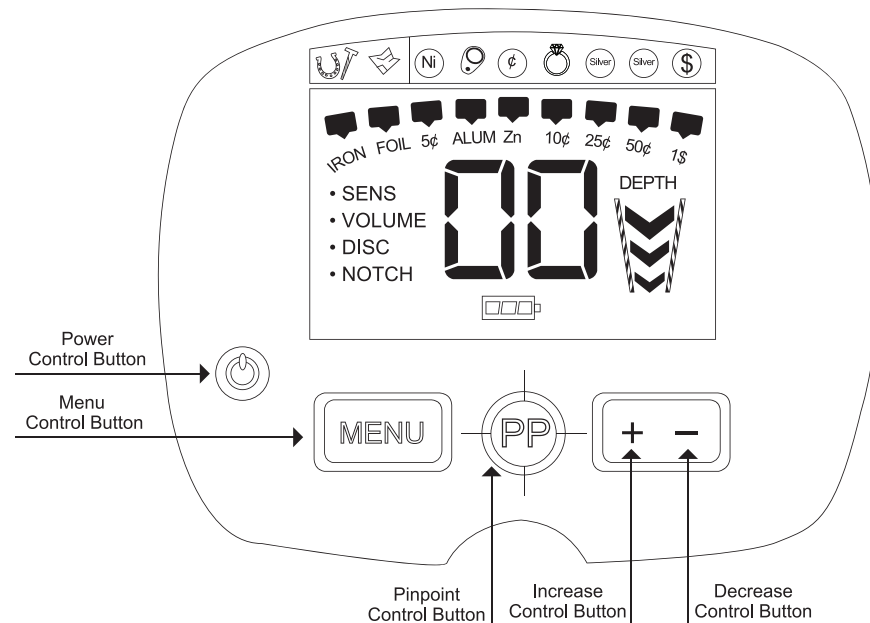
Layout Of The Control Panel



LCD Display



Control Buttons



POWER

Press the button to power on the detector. Press it again to power off the detector.

MENU

Press MENU to make it active and to select desired operation mode, the setting of SENS or VOLUME.

There are two modes (DISC & NOTCH) to be selected from the MENU indicator. For example, if you want to select DISC or NOTCH mode, press MENU several times until DISC or NOTCH is displayed on the MENU indicator. When DISC or NOTCH appears on LCD, you can set the desired target range for operation. If you want to adjust the level of sensitivity or volume, press MENU until SENS or VOLUME appears on LCD. Then press "+" or "-" to set the desired level.

INCREASE (+)

Increase the level of sensitivity or volume and the range of DISC (discrimination) or NOTCH.

DECREASE (-)

Decrease the level of sensitivity or volume and the range of discrimination or NOTCH.

PP

Press and hold for precision target pinpoint at any time.
Search coil motion is not required; a motionless search coil over a metal target will induce sound.

MENU

The Menu is located on the left side of the screen. During normal operation the Menu is inactive and faded. Press the MENU button to cycle through the Menu. Each press of the Menu button moves to the next Menu item.

The option selected is marked by "•". Once a menu option is selected, the setting can be changed using "+" and "-". Here is a description of the Menu options:

SENS (Sensitivity)

Adjust the sensitivity from 1 to 10. The higher the number, the more sensitive the detector. This sensitivity control does not affect Pinpoint sensitivity.

If the detector beeps erratically or beeps when there are no metal objects being detected, reduce the sensitivity.

Note

Cell phones, cell phone towers, etc. all produce interference signals and will cause the detector to beep when no metal is present, and sometimes to beep erratically.

VOLUME

Adjust the volume level from 0 to 10.

DISC (Discrimination)

Discrimination is an important feature of professional metal detectors. It allows user to ignore trash and undesirable objects.

The DISC controls the detector's Discrimination function. In its default setting all metals are detected. Use this DISC control in order to eliminate unwanted types of metals from detection. Targets are eliminated from detection from left to right.

Each time you press "+" button, a target category icon will disappear. When an icon disappears, that category is eliminated from detection.

Notice that the 4 right-most categories cannot be eliminated.

These 4 right-most categories represent silver or other high-value targets, which are generally desirable; therefore the detector does not allow them to be discriminated out. To pick up the eliminated target category, press "-" and categories will be accepted back for detection from right to left.

NOTCH

The NOTCH control is similar to Discrimination. It allows you to accept or reject different types of metals. While DISC works left to right, the NOTCH control allows you to accept or reject individual categories.

Categories eligible for NOTCH are FOIL, 5¢, ALUM, Zn.

Press "+" or "-" to program the NOTCH feature. Each press of "+" or "-" cycles to a new category and that category icon will flash for 3 seconds. Then the category will reverse status. Alternatively, press MENU while the icon is flashing to accept the Notch. If the icon had previously been illuminated it will now disappear indicating that the category has been eliminated from detection. Likewise, an icon that is not visible on the display will re-illuminate, indicating that category is now notched in (i.e. detected).

Any of the 4 eligible categories can be "Notched" in or out.

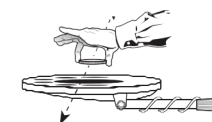
Testing And Using The Detector

1. Supplies Needed

- a Nail (made of iron)
- a U.S. Quarter (or silver coin)
- a U.S. Nickel
- a Gold Ring
- a U.S. Dime
- a U.S. Penny made of Zinc (dated after 1982)

2. Position the Detector

- a. Place the detector on a table with the search coil hanging over the edge. Or better, hold the detector with the search coil off the ground.
- b. Keep the search coil away from walls, floors and metal objects.
- c. Remove watches, rings and jewelry.
- d. Turn off lights or appliances whose electromagnetic emissions may cause interference.
- e. Pivot the search coil back.
- f. Press POWER to power on.



3. Using DISC (Discrimination) Feature

- a. Pass all objects over the search coil and notice the different tones.

Low Tone	Medium Tone			High Tone	
Nail	Nickel	Zinc Penny	Gold Ring	Dime	Quarter

- b. Press MENU until DISC is displayed on LCD.
- c. Press "+" once. The iron indicator on the display will disappear.
- d. Wave the nail. It will not be detected because it has been "discriminated out."

4. Using NOTCH Feature

- Press MENU until NOTCH is displayed on LCD.
- Press "+" twice. The 5 cent icon will flash for 3 seconds and then disappear. That means 5 cent is "notched out" (eliminated). The detector will have no response to 5cent. To eliminate "ZN", press "+" four times. The "Zn" icon will flash and then disappear.
- Wave a 5 cent coin or Zinc Penny over the search coil. They will not be detected because they have been "notched out"(eliminated). Notice the target categories not displayed on LCD can not be detected.

For fast proceeding, press MENU while the icon is flashing to accept the Notch.

To pick up the target eliminated, press "+" or "-" to have the target icon flash and then press MENU.

5. Using PINPOINT Feature

- Press and hold PP. "PP" momentarily appears on the LCD.
- Hold a coin motionless over the search coil.
- Lower coin toward search coil and then raise coin away from search coil.
- Notice that the sound changes as the coin moves closer and farther.
- Notice that the depth indicator changes as the coin moves up and down.

6. Adjusting SENS(SENSITIVITY)

- Press MENU until SENS is displayed on LCD.
- Press "+" or "-" to set the desired level. Sensitivity level can be set from 1-10. The relative digital value will be displayed on LCD when "+" or "-" is pressed.

7. Adjusting VOLUME

- Press MENU until VOLUME is displayed on LCD.
- Press "+" or "-" to set the desired level. VOLUME level can be set from 0-10. The relative digital value will be displayed on LCD when "+" or "-" is pressed.

Overload Warning

If a metal object or highly magnetic soil are too close to the search coil, the detector will overload and "- -" will appear on LCD. The detector will make a rapid, repeating mid-tone warning sound. Overload will not harm the detector, but the detector will not function under these conditions. If overload occurs, raise the search coil to detect the target from a greater distance, or move to a different location.

Target Indications

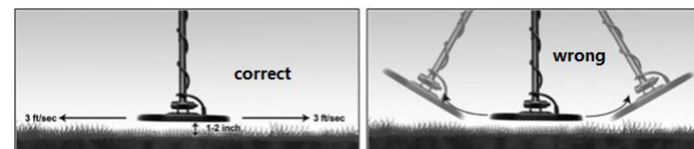
Metal Range	IRON	GOLD RANGE				SILVER RANGE			
Target	Iron	Foil	5¢	ALUM	ZN	10¢	25¢	50¢	1\$
Tone	Low	Medium				High			
ID Display									
Digital Value	1-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99

Note

There is a wide variety of metals and no target can be identified for certain until unearthed. This table is for general reference only.

Outdoor Detecting

- Find a place outside where there is no metal.
- Place a sample you want to find on the ground.
- Press POWER to power on the detector.
- Hold the search coil level to the ground about 1~2 inches above the surface, slowly move the search coil over the area where you placed the sample, sweeping the search coil in a side-to-side motion.



- 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 to miss targets.
- It's 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 item, it sounds a tone, and an arrow above the target icon appears. Also LCD displays the digital value of target as well as the depth. If the detector does not detect the item, make sure that the mode is set correctly for the type of metal you're searching for. Also make sure that you're moving the search coil correctly.

Notes

- The detector responds with a signal when it 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.

After you find a target, you can use PP (Pinpoint) to find the exact location of the target as follows

1. Press and hold PP to activate the Pinpoint feature.
2. Position the search coil just barely off the ground, and to the side of the target.
3. Move the search coil slowly across the target, and you can locate it by the sound.
The target is located directly under where the sound is loudest.

Narrow it Down

1. To narrow the response further, position the center of the search coil near the center of response pattern, but not directly over the center.
2. Release PP.
3. Immediately press and hold PP again.
4. Repeat this narrowing procedure to narrow the field of detection further.

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
The detector does not detect anything	Sensitivity set too low	Increase sensitivity
	Target range is eliminated	Recover all target range
	Search coil is not parallel to the ground	Adjust the search coil angel to be parallel to the ground
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
No power, no sound	Five-pin cable not connected well	Re-plug it properly
	Dead battery	Replace batteries

WINBEST®

by  BARSKA®

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.