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› JOBYNA Metal Detector JB-TC-A01-US User Manual

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JOBYNA Metal Detector JB-TC-A01-US User Manual

Model: JB-TC-A01-US

1. INTRODUCTION

This manual provides detailed instructions for the assembly, operation, and maintenance of your JOBYNA Metal Detector, model JB-TC-A01-US. Please read this manual thoroughly before using the device to ensure proper function and to maximize your detecting experience. This metal detector is designed for detecting various metals in different environments, including outdoor areas and shallow water.

2. PACKAGE CONTENTS

Upon opening the package, verify that all the following items are included:

- 1x JOBYNA Metal Detector (Main Unit)
- 1x Shovel with Shovel Bag
- 1x Headphone
- 1x Carrying Bag
- 2x 9V Batteries
- 1x Pair of Gloves
- 1x User Manual



Figure 2.1: All components included in the JOBYNA Metal Detector package. This image displays the main metal detector unit, a shovel with its bag, headphones, a carrying bag, two 9V batteries, and a pair of gloves.

3. PRODUCT OVERVIEW

3.1. Components

The JOBYNA Metal Detector consists of several key components designed for effective metal detection and user comfort.



Figure 3.1: Labeled diagram of the metal detector's main parts. Key components include the Search Coil, Cable, Anti-Interference Glass Fiber Stem, Intelligent LCD Panel & Backlight Display, Adjustable Stem, Sponge Handshake, and Ergonomic Arm Support.

- **Search Coil:** The primary detection component, 10-inch in diameter and IP68 waterproof.
- **Cable:** Connects the search coil to the control box.
- **Anti-Interference Glass Fiber Stem:** Provides structural support and minimizes electrical interference.
- **Intelligent LCD Panel & Backlight Display:** Displays detection information and settings.
- **Adjustable Stem:** Allows for length adjustment from 42.1 to 51.2 inches.
- **Sponge Handshake:** Provides a comfortable grip during operation.
- **Ergonomic Arm Support:** Designed to reduce fatigue during extended use.

3.2. LCD Display

The large backlit LCD screen provides visual feedback on detected targets and current settings.

Simple Intuitive Digital LCD Display

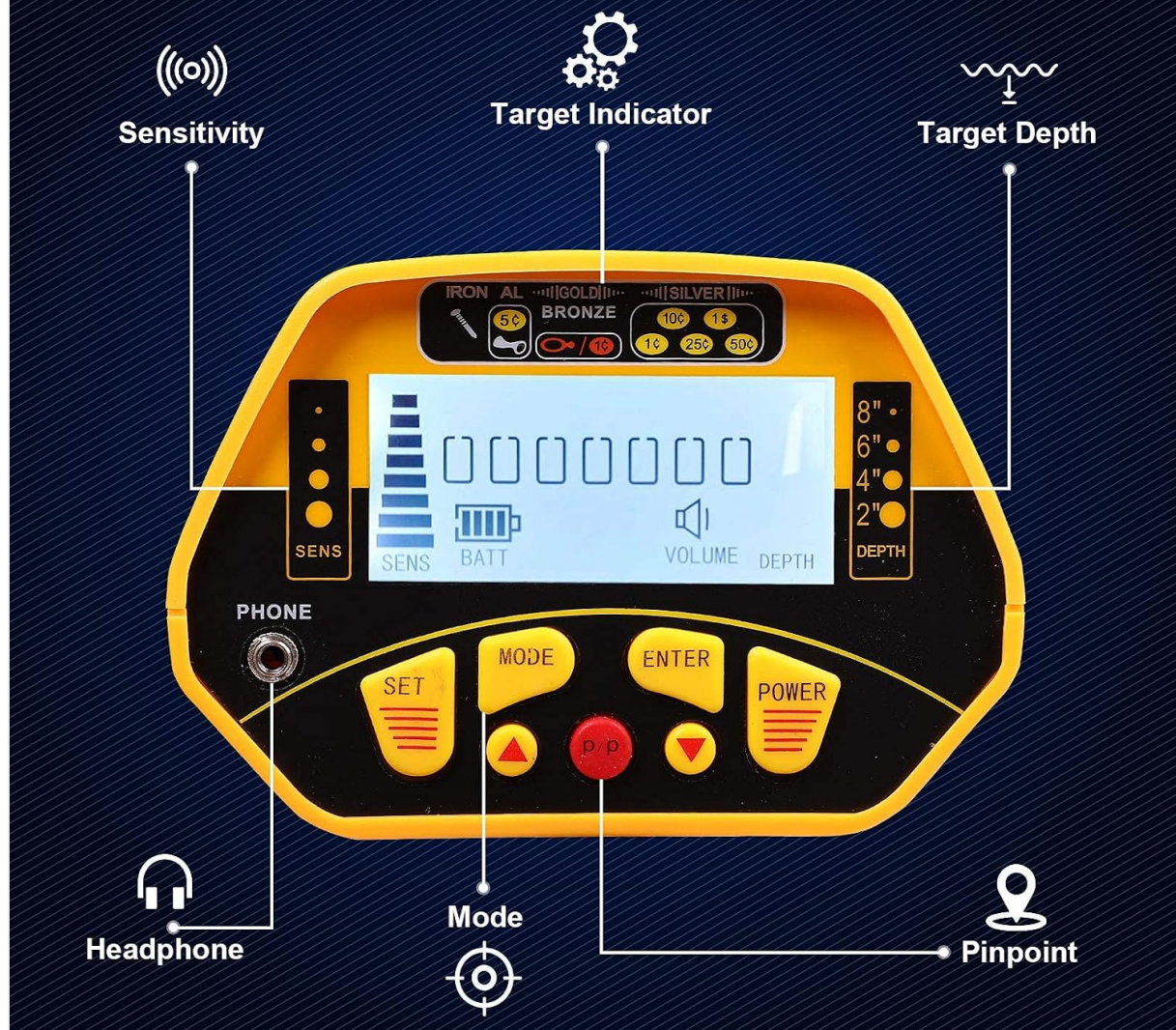


Figure 3.2: Close-up of the LCD display showing various indicators and controls. This includes Sensitivity, Target Indicator, Target Depth, Headphone jack, Mode button, Pinpoint button, SET, ENTER, and POWER buttons.

- **Sensitivity Indicator:** Shows the current sensitivity level.
- **Target Indicator:** Displays icons for different metal types (e.g., Iron, Aluminum, Gold, Silver) to help identify targets.
- **Target Depth:** Indicates the approximate depth of the detected object (e.g., 2", 4", 6", 8").
- **Battery Indicator:** Shows the remaining battery life.
- **Volume:** Adjusts the audio output level.
- **Mode Button:** Cycles through detection modes (All Metal, DISC).
- **Pinpoint Button:** Activates the pinpoint function for precise target location.
- **SET Button:** Used to adjust settings.
- **ENTER Button:** Confirms selections.
- **POWER Button:** Turns the device on/off.
- **Headphone Jack:** For connecting the included headphones.

4. SETUP

4.1. Assembly

1. **Attach the Search Coil:** Securely fasten the search coil to the lower stem using the provided bolt and knob.
2. **Connect Stems:** Connect the lower stem to the middle stem, and then the middle stem to the upper stem (control box assembly). Ensure all connections are firm.
3. **Wrap Cable:** Carefully wrap the search coil cable around the stem, ensuring it is not too tight or loose, and plug the connector into the control box.
4. **Adjust Arm Support:** Position the arm support for comfortable use.

4.2. Battery Installation

1. Locate the battery compartment on the control box.
2. Open the compartment cover.
3. Insert two 9V batteries, ensuring correct polarity (+/-).
4. Close the battery compartment cover securely.

Note: If the unit will not be used for a week or more, remove the batteries to prevent leakage and potential damage to electronic components.

4.3. Adjusting Length

The detector's stem is adjustable to suit different user heights, ranging from 42.1 inches to 51.2 inches.

1. Loosen the locking collar on the adjustable stem.
2. Extend or retract the stem to your desired comfortable length.
3. Tighten the locking collar to secure the stem in place.

Adjustable Metal Detector

Adjust to Your Comfortable Height



Figure 4.1: Illustration of the adjustable stem, demonstrating the minimum (42.1") and maximum (51.2") lengths for user comfort.

5. OPERATING INSTRUCTIONS

5.1. Power On/Off

Press the **POWER** button to turn the detector on or off.

5.2. Detection Modes

The JOBYNA Metal Detector features two primary detection modes: All Metal and DISC (Discrimination).

- **All Metal Mode:** Detects all types of metal objects. This mode offers the greatest depth sensitivity and is ideal for general searching when you want to find everything.

- **DISC Mode (Discrimination):** Allows the user to eliminate certain types of metals from detection, such as iron or other unwanted items. Use the **MODE** button to switch between modes and the **SET** button to adjust discrimination levels.

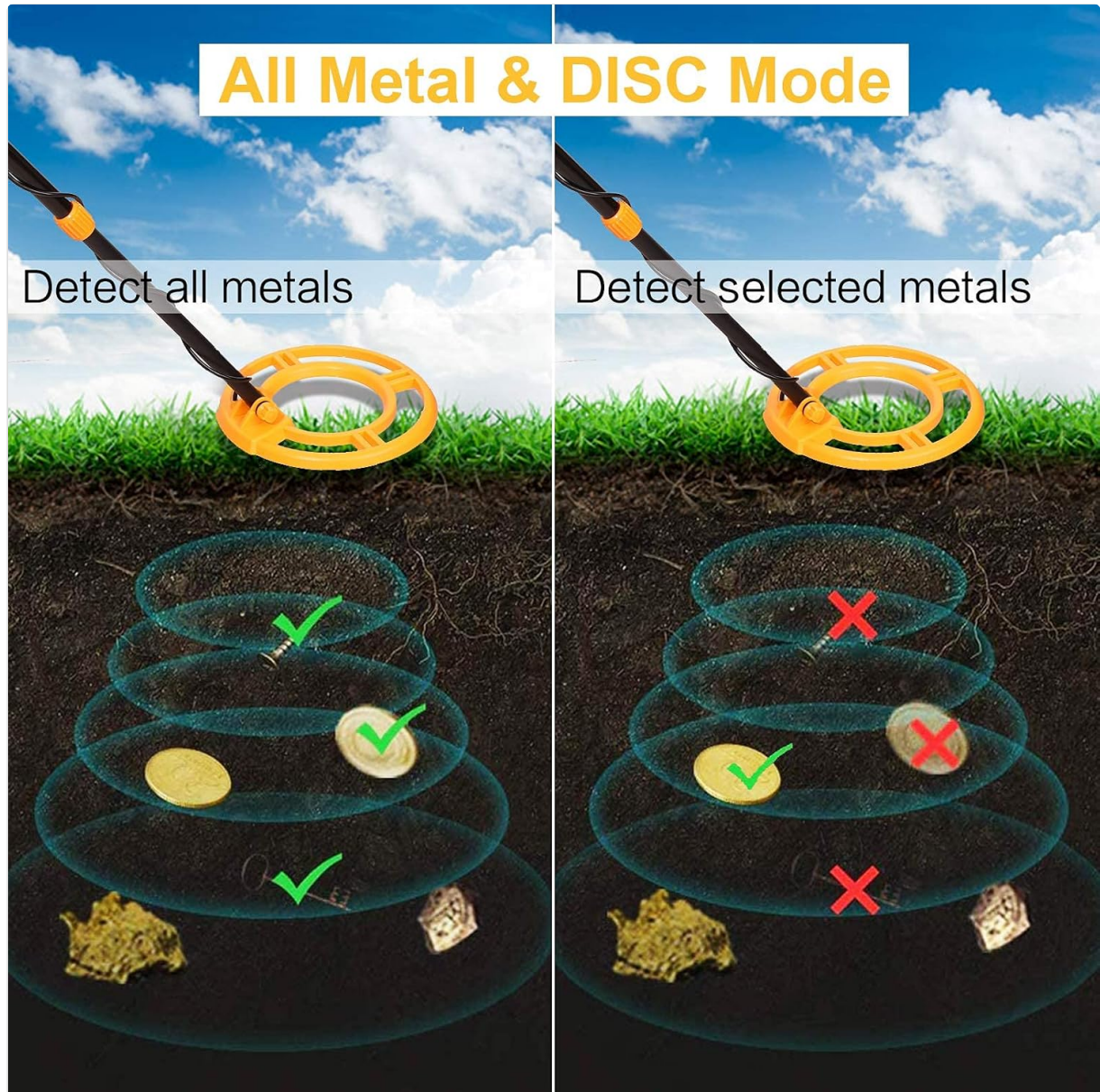


Figure 5.1: Visual representation of All Metal mode detecting all objects (left) versus DISC mode ignoring specific metals (right).

5.3. Sensitivity Adjustment

Adjusting sensitivity controls the detector's ability to find small or deep objects. Higher sensitivity increases detection depth but can also increase false signals in mineralized soil or areas with electromagnetic interference. Use the **SET** button to adjust sensitivity.

5.4. Pinpoint Function

The Pinpoint function helps to precisely locate the target after it has been detected. Press and hold the **Pinpoint** button. Move the search coil slowly over the detected area. The audio tone will intensify as you get closer to the target, allowing for accurate pinpointing before digging.

5.5. Audio Feedback

The detector provides three distinct audio tones to help identify metal categories. The volume can be adjusted using the controls on the LCD panel.

5.6. Using the Waterproof Search Coil

The 10-inch search coil is IP68 waterproof, allowing for detection in shallow water, such as at the seashore or in rivers. **Important: The control box is NOT waterproof and must not be submerged.**



Figure 5.2: The 10-inch IP68 waterproof search coil being used in water, demonstrating its capability for underwater detection.

6. MAINTENANCE

- **Cleaning:** After each use, especially in sandy or wet conditions, wipe down the search coil and stem with a damp cloth. Ensure the control box remains dry.
- **Storage:** Store the metal detector in a cool, dry place. If storing for an extended period, remove the batteries.
- **Battery Care:** Always use fresh, high-quality 9V batteries. Replace batteries when the low battery indicator appears on the LCD.
- **Cable Inspection:** Periodically check the search coil cable for any signs of wear or damage.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Detector does not power on.	Dead or incorrectly installed batteries.	Check battery polarity; replace with fresh 9V batteries.
Constant false signals or erratic behavior.	• High sensitivity setting. • Electromagnetic interference (EMI) from power lines, other electronics. • Highly mineralized soil. • Metal objects nearby (e.g., digging tools, building floor).	• Reduce sensitivity. • Move away from sources of EMI. • Switch to DISC mode or reduce sensitivity. • Ensure no metal objects are near the search coil during operation. Avoid using indoors or on floors with embedded metal.
No detection or weak signals.	• Low sensitivity setting. • Incorrect mode (e.g., DISC mode rejecting target). • Search coil not parallel to the ground.	• Increase sensitivity. • Switch to All Metal mode or adjust DISC settings. • Ensure the search coil is swept parallel to the ground, about 1-2 inches above it.

8. SPECIFICATIONS

Feature	Detail
Model Number	JB-TC-A01-US
Adjustable Stem Length	42.1 - 51.2 inches (107 - 130 cm)
Search Coil Size	10-inch diameter
Search Coil Waterproof Rating	IP68
Maximum Detection Depth	Approximately 8 inches (for coin-sized objects)
Power Source	2 x 9V Batteries (included)
Operating Modes	All Metal, DISC (Discrimination), Pinpoint
Display	Large Backlit LCD
Material	Acrylonitrile Butadiene Styrene, Alloy Steel
Product Dimensions (assembled)	53.85 x 25.4 x 9.91 cm (approximate, varies with adjustment)
Product Weight	2.47 kg (approximate)

9. IMPORTANT NOTES AND SAFETY

- Do not place the device directly on floors, as many building floors contain embedded metal that can cause false readings.

- Indoor use is not recommended due to potential interference from large appliances and structural metals.
- When operating outdoors, avoid areas with highly mineralized soil or significant metal waste to prevent false signals.
- If carrying a digging tool, keep it a short distance away from the metal detector during detection to avoid interference.
- The control box is not waterproof. Protect it from moisture and submersion.

10. WARRANTY AND SUPPORT

JOBYNA provides a two-year warranty for this metal detector from the date of purchase. If you encounter any problems or have questions regarding your device, please contact JOBYNA customer support. Refer to the contact information provided with your purchase documentation for assistance.