

Teknetics LIBERATOR

Teknetics LIBERATOR Metal Detector User Manual

Model: LIBERATOR

INTRODUCTION

The Teknetics LIBERATOR is a high-performance metal detector designed for various treasure hunting and metal detecting applications. It features advanced capabilities such as V-Break variable tone breakpoint, pinpoint mode with depth indication, and computerized ground balancing. This manual provides essential information for setting up, operating, and maintaining your LIBERATOR metal detector to ensure optimal performance and longevity.

SAFETY INFORMATION

Always exercise caution when using the metal detector. Be aware of your surroundings, especially in areas with potential hazards like uneven terrain, sharp objects, or buried utilities. Do not operate the detector near active electrical lines or in hazardous environments. Always obtain permission before detecting on private property. When digging, use appropriate tools and be mindful of potential underground obstacles. Keep the device away from extreme temperatures and moisture to prevent damage.

SETUP AND ASSEMBLY

Proper assembly is crucial for the performance of your Teknetics LIBERATOR. Follow these steps carefully:

- Attach the Searchcoil:** Secure the 11-inch waterproof DD searchcoil to the lower stem using the provided bolt and washers. Ensure it is firmly attached but do not overtighten.
- Assemble the Shaft:** Connect the lower, middle, and upper stems. Adjust the length of the shaft to a comfortable position that allows the searchcoil to be parallel to the ground when you are standing upright.
- Mount the Control Housing:** Slide the control housing onto the upper stem. Ensure it is securely fastened.
- Install Batteries:** The LIBERATOR requires one 9V battery. Locate the battery compartment on the control housing, open it, and insert the battery, observing the correct polarity. Close the compartment securely.
- Connect the Searchcoil Cable:** Carefully wrap the searchcoil cable around the stem, leaving enough slack for the coil to pivot. Plug the cable connector into the corresponding port on the control housing. Ensure the connection is snug to prevent signal interference.



Image: The fully assembled Teknetics LIBERATOR metal detector, showing the control housing, adjustable shaft, and 11-inch DD searchcoil.

OPERATING INSTRUCTIONS

Familiarize yourself with the control panel and its functions to effectively use your metal detector.



Image: Close-up of the Teknetics LIBERATOR control panel, displaying the LCD screen with target ID numbers, depth indicator, and various control buttons.

Basic Operation

- **Power On/Off:** Press and hold the power button (usually marked with a power symbol) to turn the detector on or off.
- **Adjust Sensitivity:** Use the sensitivity controls (often labeled SENS or with +/- buttons) to adjust the detector's sensitivity. Higher sensitivity increases depth but can also increase false signals in mineralized ground.
- **Ground Grab (Computerized Ground Balancing):** This feature automatically cancels out ground mineralization signals. Press the "Ground Grab" button and pump the searchcoil up and down over the ground until the ground balance reading stabilizes. This is crucial for stable operation.
- **Search Modes:** The LIBERATOR offers 2 search modes. Consult the on-screen display or specific buttons to switch between modes, such as All-Metal or Discrimination modes.

Advanced Features

- **Discrimination:** This function allows the detector to ignore unwanted metals (like iron) and respond only to desired targets. Adjust the discrimination level using the DISC controls. The LIBERATOR supports motion and no-motion discrimination.
- **Variable Notching:** Use the notching feature to selectively eliminate specific ranges of target IDs from detection. This is useful for ignoring common trash items.
- **V-Break (Variable Tone Breakpoint):** This allows you to set a specific target ID point where the audio tone changes. For example, you can set it so that iron produces a low tone, and non-ferrous metals produce a higher tone.
- **Target-ID Numbers (1-99):** The large 2-digit numeric display provides a Target-ID number, helping you identify the probable

type of metal detected before digging. Higher numbers generally indicate more conductive metals.

- **Pinpoint Mode with Depth Indicator:** Press the "PP" (Pinpoint) button to activate pinpoint mode. This helps you narrow down the exact location of a target and provides an estimated depth reading on the display.
- **4-Tone Audio-ID:** The detector provides distinct audio tones for different types of metals, aiding in target identification without constantly looking at the display.

MAINTENANCE

Proper maintenance will extend the life and performance of your Teknetics LIBERATOR.

- **Cleaning:** After each use, wipe down the searchcoil and stem with a damp cloth to remove dirt and debris. The 11-inch DD searchcoil is waterproof and can be rinsed with fresh water, but ensure the control housing is kept dry.
- **Battery Care:** Always remove the 9V battery if the detector will not be used for an extended period to prevent leakage and damage to the electronics. Store batteries in a cool, dry place.
- **Storage:** Store the detector in a dry, temperate environment. Avoid exposing it to extreme temperatures or direct sunlight for prolonged periods.
- **Cable Inspection:** Periodically check the searchcoil cable for any signs of wear, cuts, or damage. Ensure the connector is clean and free of corrosion.

TROUBLESHOOTING

If you encounter issues with your Teknetics LIBERATOR, try these common troubleshooting steps:

Problem	Possible Cause	Solution
No power or intermittent power	Dead or improperly installed battery; loose cable connection.	Replace the 9V battery with a fresh one. Ensure the battery is inserted with correct polarity. Check that the searchcoil cable is securely connected to the control housing.
Excessive false signals or chatter	High sensitivity setting; improper ground balance; electromagnetic interference.	Reduce the sensitivity setting. Perform a proper Ground Grab procedure. Move away from power lines, cell phones, or other electronic devices.
Poor target identification or depth	Incorrect discrimination settings; highly mineralized ground; coil not parallel to ground.	Adjust discrimination settings to allow desired targets. Re-ground balance. Ensure the searchcoil is swept parallel to the ground surface.
No audio response	Volume too low; faulty headphones (if used); internal issue.	Increase the volume. Test with different headphones or without headphones. If the problem persists, contact customer support.

SPECIFICATIONS

- **Model:** LIBERATOR
- **Brand:** Teknetics
- **Manufacturer:** First Texas Products, LLC
- **Color:** Black
- **Material:** Metal
- **Display Type:** LCD (Large 2-digit numeric Target-ID numbers, 1-99)
- **Searchcoil:** 11-inch waterproof DD searchcoil
- **Power Source:** Battery Powered

- **Batteries Required:** 1 x 9V battery (not included)
- **Search Modes:** 2 (e.g., All-Metal, Discrimination)
- **Audio Tones:** 4-Tone Audio-ID
- **Ground Balance:** Ground Grab (Computerized Ground Balancing)
- **Discrimination:** V-Break, variable tone breakpoint; Pinpoint mode with depth indicator, Discrimination (motion, no motion); Variable notching
- **Product Dimensions:** 73.66 x 27.94 x 17.78 cm (assembled, approximate)
- **Item Weight:** 1.18 kg (approximate)

WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries regarding your Teknetics LIBERATOR metal detector, please contact the manufacturer directly.

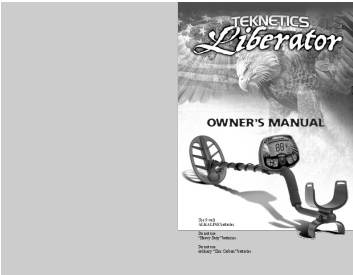
Manufacturer: First Texas Products, LLC

Refer to the product packaging or the manufacturer's official website for the most current contact details and warranty terms.



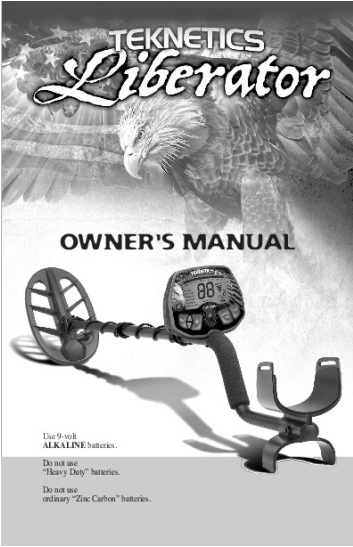
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