Blue Marble NGSTARTDET

National Geographic Starter Metal Detector Kit

Instruction Manual for Model NGSTARTDET

Brand: Blue Marble

Introduction

Congratulations on your purchase of the National Geographic Starter Metal Detector Kit! This kit is designed to provide young explorers with an exciting and educational introduction to the world of metal detecting. Lightweight, easy to use, and durable, it's perfect for discovering hidden treasures in various environments, from your backyard to the beach.

Please read this manual carefully before using your metal detector to ensure proper setup, operation, and maintenance for a safe and enjoyable experience.

What's Included

Your National Geographic Starter Metal Detector Kit includes the following components:

- 1 x National Geographic Starter Metal Detector
- 1 x Heavy-Duty Trowel
- 1 x Detailed, Full-Color Learning Guide

Image: The complete National Geographic Starter Metal Detector Kit, including the detector, trowel, and learning guide.

Setup Instructions

1. **Battery Installation:** The metal detector requires 1 x 9V alkaline battery (not included). Locate the battery compartment, typically on the handle or control box. Open the compartment, insert the 9V battery, ensuring correct polarity (+/-), and close the cover securely.
2. **Assemble the Detector:**
    - Connect the search coil to the lower stem.
    - Attach the lower stem to the middle stem.
    - Connect the middle stem to the upper stem, which contains the control unit and handle. Ensure all connections are secure.
3. **Adjust Arm Length:** The detector features an adjustable arm length for comfortable use by various heights. Loosen the locking collar on the shaft, extend or retract the shaft to a comfortable length, and then tighten the collar to secure it. The adjustable range is approximately 33.5 to 40.5 inches.
4. **Adjust Coil Angle:** The search coil can be angled for optimal scanning. Loosen the knob near the coil, adjust the

coil to be parallel with the ground when held comfortably, and tighten the knob.

Image: Illustration demonstrating the adjustable length and collapsible design of the metal detector.

Operating Instructions

The National Geographic Starter Metal Detector is designed for simple, screen-free operation, making it ideal for young treasure hunters.

1. **Power On:** Turn the power knob (usually combined with volume control) to the ON position. You should hear a slight hum or a single beep indicating it's powered on.
2. **Adjust Volume:** Rotate the volume knob to a comfortable listening level.
3. **Start Searching:** Hold the metal detector with the search coil parallel to the ground, about 1-2 inches above the surface. Sweep the coil slowly from side to side in overlapping motions.
4. **Detecting a Target:** When the detector passes over a metal object, you will hear an audio alert (a beep) and see a corresponding LED light up. This indicates a potential find.

5. **Pinpointing:** Once a signal is detected, narrow down the location by making smaller, slower sweeps over the area. The signal will be strongest directly over the object.
6. **Digging:** Use the included heavy-duty trowel to carefully dig up the detected object. Remember to refill any holes you dig.

Important Operating Tips:

- **Waterproof Coil:** The 7.4-inch dual coil is waterproof up to 4 inches (10 cm), making it suitable for shallow water detection, such as at the beach or along stream banks. Avoid submerging the control unit or handle.
- **Depth Detection:** The detector can typically detect objects up to 4 inches deep, depending on the size and type of metal.
- **Environmental Factors:** Performance may vary based on soil conditions, mineral content, and the presence of other metallic objects.
- **Learning Guide:** Refer to the detailed, full-color Learning Guide for more information on the history of metal detecting and tips for finding treasures.

Image: The metal detector's coil demonstrating its water-resistant feature in shallow water.

Image: An excerpt from the included Learning Guide, illustrating the principles of metal detection.

Maintenance

- **Cleaning:** After each use, especially in sandy or dirty environments, wipe down the search coil and shaft with a damp cloth. Avoid using harsh chemicals or abrasive cleaners.
- **Battery Care:** Always remove the 9V battery if the detector will not be used for an extended period to prevent battery leakage and damage to the electronics.
- **Storage:** Store the metal detector in a cool, dry place, away from direct sunlight and extreme temperatures. The collapsible design allows for compact storage.
- **Coil Protection:** While the coil is water-resistant, avoid unnecessary impacts or dropping the detector, which could damage the coil or internal components.

Image: The metal detector in its collapsed state, fitting easily into a backpack for transport and storage.

Troubleshooting

Problem	Possible Cause	Solution
No power/No sound	Battery not installed or dead. Power knob is off.	Check battery installation and replace if necessary. Turn the power knob to the ON position.
False signals/Constant beeping	Interference from other electronic devices. High mineral content in soil. Coil touching ground or water too frequently.	Move away from power lines, cell phones, or other detectors. Try a different search area. Ensure the coil is swept smoothly 1-2 inches above the ground.

Problem	Possible Cause	Solution
Poor detection depth	Small object size. Deeply buried object. Battery low.	This model is designed for shallow detection (up to 4 inches). Ensure battery is fresh.

Specifications

Feature	Detail
Brand	Blue Marble (National Geographic)
Model Number	NGSTARTDET
Item Weight	1.26 Kilograms (2.77 pounds)
Product Dimensions (Extended)	14.69"L x 4.61"W x 12.2"H (approximate, adjustable length)
Power Source	Battery Powered
Batteries Required	1 x 9V (not included)
Search Coil Size	7.4 Inches
Waterproof Rating (Coil)	Waterproof up to 4 inches (10 cm)
Display Type	LED (for alerts)

Warranty and Support

Blue Marble, the brand behind National Geographic educational toys, is committed to providing high-quality products and exceptional customer service. While specific warranty details are not provided in this manual, your purchase is backed by our commitment to your satisfaction.

If your experience with this product is less than stellar, or if you encounter any issues not covered in this manual, please do not hesitate to contact us. We are dedicated to making things right.

For further assistance or to explore other National Geographic products, please visit the official Blue Marble Store:

Visit the Blue Marble Store