AM ARROWMAX SGS MINI-BLACK

AM ARROWMAX Mini Electric Engraving Pen

User Manual

1. Introduction

Welcome to the AM ARROWMAX Mini Electric Engraving Pen user manual. This guide provides detailed instructions on how to set up, operate, and maintain your new engraving tool. Designed for precision and versatility, this cordless mini rotary tool is ideal for engraving, polishing, carving, and sanding on various materials including metal, wood, glass, and plastic. Please read this manual thoroughly before use to ensure safe and optimal performance.

2. Product Overview

2.1. Package Contents

Your AM ARROWMAX Mini Electric Engraving Pen package includes:

- 1 x Engraving Pen
- 24 x Engraving Bits
- 12 x Polish Bits
- 1 x Storage Bag
- 1 x USB Charging Cable
- 1 x User Manual (this document)



Figure 2.1: Included Items in the SGS MINI Kit

2.2. Product Diagram

Familiarize yourself with the main components of your engraving pen:



Figure 2.2: SGS MINI Product Diagram

- **Magnetic Charging Port:** For convenient and seamless charging.
- **Working Status Indicator:** Displays battery status and rotation direction.
- **Power Button:** One-key operation to start and stop the device.
- **Aluminium Alloy Body:** Durable and ergonomically designed for better control.
- **Chuck:** Allows for easy and tool-free bit changes.

2.3. Key Features

- **Comprehensive 36-Piece Accessory Set:** Includes 24 engraving bits and 12 polishing bits for a wide range of tasks.
- **Versatile Cordless Engraving Tool Kit:** High-performance, low-noise design suitable for intricate crafting, engraving, sanding, grinding, and polishing.
- **Magnetic USB Charging for Endurance:** 5V rechargeable battery provides up to 90 minutes of runtime, with convenient in-box magnetic charging.
- **Precision Speed Control with Smart App (Optional):** Customize speed from 10,000 RPM to 20,000 RPM in 1000 RPM increments, and toggle forward/reverse modes via the ARROWMAX Smartphone app (Android and iOS compatible).

- **Personalized Control at Your Fingertips:** Fine-tune speed and direction to match project requirements for unparalleled precision and convenience.

3. Setup

3.1. Charging the Device

Before first use, fully charge the engraving pen. Connect the provided USB charging cable to the magnetic charging port on the pen and plug the other end into a compatible USB power source (e.g., computer, wall adapter). The working status indicator lights will show the charging progress and battery level.

3.2. Installing Engraving Bits

To install or change an engraving bit:

1. Ensure the engraving pen is turned off.
2. Gently pull out the current bit from the chuck, if one is installed.
3. Insert the desired engraving or polishing bit firmly into the chuck until it is securely seated. No additional tools are required.
4. Verify the bit is stable before operation.



Figure 3.2: Engraving and Polishing Bits

3.3. App Connection (Optional)

For enhanced control and precision, you can connect your engraving pen to the ARROWMAX Smartphone app via Bluetooth. The app allows for fine-tuning of speed and direction.

1. Download the ARROWMAX app from the Google Play Store (for Android) or Apple App Store (for iOS).
2. Ensure Bluetooth is enabled on your smartphone.
3. Open the ARROWMAX app and follow the on-screen instructions to pair with your SGS MINI engraving pen.



Figure 3.3: ARROWMAX App Interface

4. Operating Instructions

4.1. Basic Operation

1. Press the Power Button once to turn on the engraving pen. The working status indicator lights will illuminate.
2. To turn off the pen, press the Power Button again.

4.2. Speed Control

The engraving pen offers a speed range from 10,000 RPM to 20,000 RPM. You can adjust the speed in increments of 1000 RPM using the ARROWMAX app. Refer to Section 3.3 for app connection instructions.

4.3. Direction Control

The rotation direction of the engraving pen can be toggled between forward and reverse modes using the

ARROWMAX app. This feature provides greater flexibility for different engraving techniques and materials.

4.4. Engraving Techniques and Applications

The AM ARROWMAX Mini Electric Engraving Pen is suitable for a variety of materials and applications:

- **Engraving:** Create intricate designs on metal, wood, glass, and plastic.
- **Polishing:** Use the polishing bits to smooth surfaces or add a shine to your creations.
- **Sanding:** Prepare surfaces or refine edges with appropriate bits.
- **Carving:** Ideal for detailed carving work on softer materials like wood.

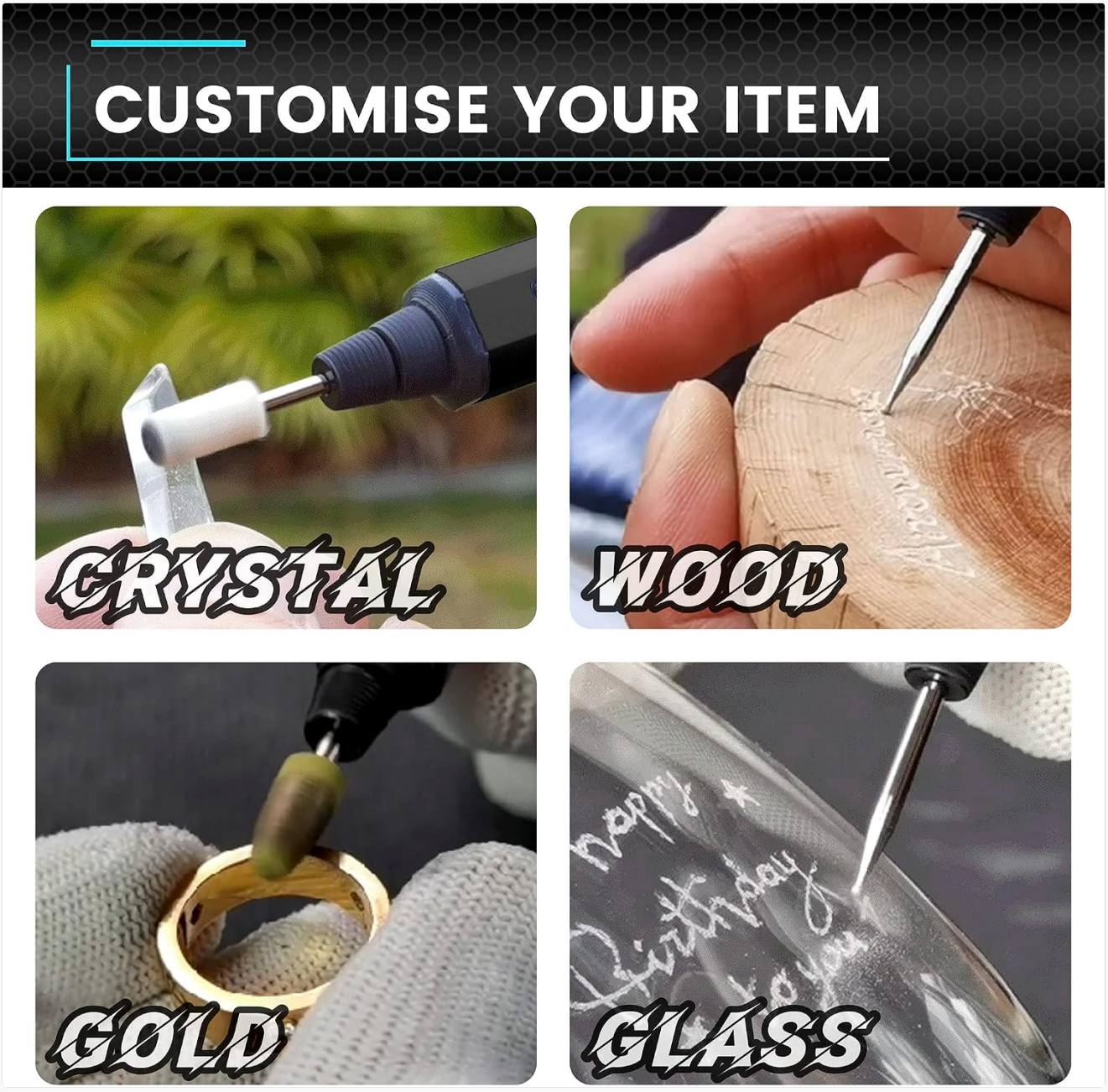


Figure 4.4a: Customizing Items on Various Materials

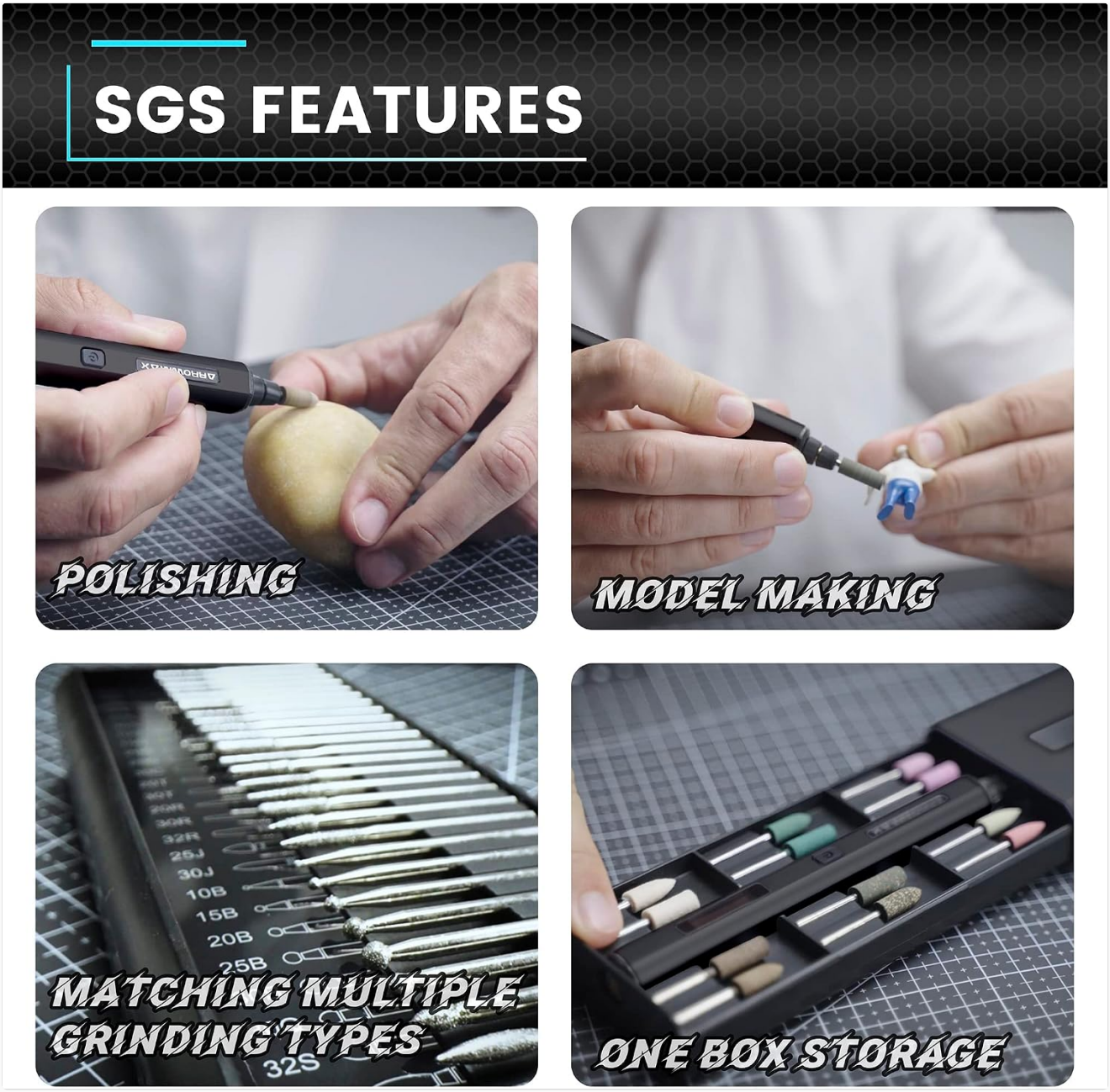


Figure 4.4b: SGS Features in Use

5. Maintenance

5.1. Cleaning

After each use, ensure the engraving pen is turned off and disconnected from the charger. Use a soft, dry cloth to wipe down the body of the pen. Remove any debris or dust from the chuck area. For the bits, clean them according to their material and type to ensure longevity and performance.

5.2. Storage

Store the engraving pen and its accessories in the provided aluminum case. Keep the case in a cool, dry place, away from direct sunlight and extreme temperatures. Ensure all bits are clean and dry before storing to prevent corrosion.

5.3. Battery Care

To maximize battery life, avoid fully discharging the battery frequently. Charge the device regularly, even if not in use for extended periods (e.g., once every 3 months). Use only the provided USB charging cable.

6. Troubleshooting

If you encounter any issues with your AM ARROWMAX Mini Electric Engraving Pen, please refer to the table below for common problems and solutions.

Problem	Possible Cause	Solution
Device does not turn on.	Low battery.	Charge the device fully using the provided USB cable.
Device loses power quickly.	Battery degradation or improper charging.	Ensure full charge before use. Avoid extreme temperatures. If issue persists, contact customer support.
Bit is loose or falls out.	Bit not inserted correctly or chuck worn.	Re-insert the bit firmly into the chuck. If the chuck is worn, contact customer support for replacement.
Cannot connect to app.	Bluetooth off or app issue.	Ensure Bluetooth is enabled on your phone. Restart the app and the engraving pen. Try re-pairing the device.
Reduced engraving performance.	Worn or incorrect bit.	Replace the bit with a new one suitable for the material.

7. Specifications

Feature	Detail
Brand	AM ARROWMAX
Model	SGS MINI-BLACK (Part Number: 199211-B)
Voltage	5 Volts
Power Source	Battery Powered
Battery Type	1 Lithium Polymer battery (included)
Maximum Rotational Speed	20000 RPM
Minimum Speed	10000 RPM
Material	Aluminum
Item Weight	12 ounces
Package Dimensions	8.15 x 3.07 x 1.34 inches
Special Features	Cordless, Rechargeable, Bluetooth Connectivity (via app)

8. Warranty and Support

Your AM ARROWMAX Mini Electric Engraving Pen is covered by a manufacturer's warranty. For specific warranty details, please refer to the warranty card included in your package or visit the official AM ARROWMAX website. If you have any questions, require technical assistance, or need to report an issue, please contact AM ARROWMAX customer support through the contact information provided on their official website or your purchase platform.

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Example: How do I reset this device or fix this error?

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Model number, symptoms, what you tried, or the section of the manual you are using.

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