

GOWE GWE-20005475

GOWE Dahao Embroidery Machine Motherboard User Manual

Model: GWE-20005475 | Brand: GOWE

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, maintenance, and troubleshooting of the GOWE Dahao Embroidery Machine Motherboard. This advanced motherboard is designed for computerized embroidery machines, featuring an upgraded Dahao system, shear line control, and full golden servo motor compatibility. Please read this manual thoroughly before attempting any installation or operation to ensure proper functionality and safety.

2. PRODUCT OVERVIEW

The GOWE Dahao Embroidery Machine Motherboard is a critical component for controlling and managing the operations of a computerized embroidery machine. It integrates various control circuits and interfaces to facilitate precise embroidery patterns, thread cutting, and motor movements. This motherboard is engineered for reliability and performance in demanding industrial environments.



Figure 2.1: Top view of the GOWE Dahao Embroidery Machine Motherboard, showing various integrated circuits, connectors, and components. This image displays the overall layout and design of the main board.



Figure 2.2: The GOWE Dahao Embroidery Machine Motherboard with a black data or power cable connected to one of its ports. This illustrates a typical connection point on the board.

3. SETUP AND INSTALLATION

Careful installation is crucial for the proper functioning of the motherboard. Ensure the embroidery machine is powered off and disconnected from the main power supply before proceeding.

3.1 Physical Installation

1. **Power Off:** Disconnect the embroidery machine from the power source.
2. **Access Panel:** Open the control panel or access compartment where the existing motherboard is located.
3. **Remove Old Motherboard:** Carefully disconnect all cables and mounting screws from the old motherboard. Note the orientation and connection points for each cable.
4. **Install New Motherboard:** Position the GOWE Dahao Motherboard in the designated slot. Secure it with appropriate screws, ensuring it is firmly seated and aligned with all mounting points.

3.2 Electrical Connections

- **Power Supply:** Connect the main power supply cable to the designated power input port on the motherboard.
- **Motor Connections:** Connect the servo motor cables (including the full golden servo motor if applicable) to their respective ports. Ensure correct polarity and secure connections.
- **Sensor and Actuator Cables:** Reconnect all sensor cables (e.g., thread break sensors, limit switches) and actuator cables (e.g., shear line, needle bar control) to their corresponding ports.
- **Control Panel Interface:** Connect the cables leading to the machine's control panel and display unit.
- **Data Cables:** Connect any necessary data cables, such as USB or serial connections, for external communication or programming.

3.3 Software Configuration

After physical installation and electrical connections, the motherboard may require software configuration or firmware updates. Refer to your embroidery machine's specific software manual for detailed instructions on initial setup, parameter adjustments, and calibration.

- **Initial Boot:** Power on the machine and observe the display for any error messages.
- **Parameter Loading:** Load the machine's specific operational parameters and embroidery designs.
- **Calibration:** Perform necessary calibrations for needle positioning, thread tension, and shear line operation.

4. OPERATING INSTRUCTIONS

This section outlines the general operating procedures for an embroidery machine equipped with the GOWE Dahao Motherboard. Specific operations may vary based on your machine model.

4.1 Powering On and Off

- **Power On:** Ensure all connections are secure. Connect the machine to a stable power source and press the main power button. The control panel should illuminate.
- **Power Off:** Complete any ongoing embroidery tasks. Use the machine's shutdown procedure (if available) or press the main power button to turn off. Disconnect from the power source for extended periods of inactivity.

4.2 Basic Functions

- **Design Loading:** Use the control panel or USB port to load embroidery designs into the machine's memory.
- **Thread Selection:** Select the appropriate thread colors and ensure they are correctly threaded through the machine.
- **Hoop Positioning:** Secure the fabric in the embroidery hoop and attach it to the machine. Adjust its position as needed.
- **Start Embroidery:** Initiate the embroidery process via the control panel. Monitor the machine's operation for any anomalies.
- **Shear Line Operation:** The Dahao system manages automatic thread cutting. Ensure the shear line mechanism is clean and unobstructed.

5. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your GOWE Dahao Motherboard and the embroidery machine.

5.1 Cleaning

- Dust Removal:** Periodically open the machine's control compartment (with power off) and gently remove dust and lint from the motherboard and surrounding components using compressed air or a soft brush.
- Connector Cleaning:** Inspect connectors for corrosion or debris. Clean with a specialized electronic contact cleaner if necessary.

5.2 Inspection

- Cable Integrity:** Regularly check all cables connected to the motherboard for signs of wear, fraying, or loose connections.
- Component Check:** Visually inspect the motherboard for any signs of damage, such as burnt components, swollen capacitors, or cracked solder joints.
- Cooling:** Ensure proper airflow around the motherboard to prevent overheating. Clear any obstructions to ventilation.

5.3 Firmware Updates

Check the GOWE or Dahao official website periodically for available firmware updates. Firmware updates can improve performance, add new features, or resolve known issues. Follow the manufacturer's instructions precisely when performing firmware updates to avoid damaging the motherboard.

6. TROUBLESHOOTING

This section provides solutions to common issues you might encounter with the GOWE Dahao Embroidery Machine Motherboard.

Problem	Possible Cause	Solution
Machine does not power on.	Loose power cable, faulty power supply, motherboard issue.	Check power cable connection. Verify power supply functionality. If issue persists, contact support.
Embroidery pattern errors or incorrect movements.	Loose motor cables, incorrect software parameters, sensor malfunction.	Inspect all motor and sensor connections. Re-calibrate machine parameters. Check for firmware updates.
Thread cutting (shear line) not working.	Shear line mechanism obstruction, faulty shear line actuator, motherboard control issue.	Clean the shear line mechanism. Check its physical movement. Verify connections to the motherboard.
Machine freezes or becomes unresponsive.	Software glitch, overheating, power instability.	Restart the machine. Ensure adequate ventilation. Check power supply stability. Consider firmware update.

7. SPECIFICATIONS

Technical specifications for the GOWE Dahao Embroidery Machine Motherboard (Model GWE-20005475).

Feature	Detail
Manufacturer	Gowegroup

Feature	Detail
Model Name	Dahao
Product Reference	GWE-20005475
Memory Storage Capacity	8 GB
RAM Technology	DDR
Memory Clock Speed	2133 MHz
Compatible Devices	Personal Computer (for programming/interface)
CPU Socket	Socket AM4 (Note: This may refer to internal components or compatibility, not necessarily an external socket for user interaction)
USB 2.0 Ports	4
ASIN	B075VR8FJZ

8. WARRANTY INFORMATION

GOWE products are manufactured to high-quality standards. This motherboard is covered by a limited warranty against defects in materials and workmanship. The specific terms and duration of the warranty may vary by region and purchase date. Please retain your proof of purchase for warranty claims.

For detailed warranty information, please refer to the warranty card included with your product or visit the official GOWE website. Unauthorized repairs or modifications will void the warranty.

9. SUPPORT AND CONTACT

If you encounter issues that cannot be resolved using the troubleshooting guide, or if you require further technical assistance, please contact GOWE customer support.

- **Online Support:** Visit the official GOWE website for FAQs, support resources, and contact forms.
- **Technical Service:** For complex technical issues, it is recommended to consult with a certified technician specializing in embroidery machine repair.

When contacting support, please have your product model number (GWE-20005475) and a detailed description of the issue ready.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

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

Details

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

Submit question