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CVXDD LY 810 (1005005675309970)

Wire Winding Machine User Manual

Model: LY 810 (1005005675309970) | Brand: CVXDD

1. Introduction

This manual provides comprehensive instructions for the setup, operation, maintenance, and troubleshooting of the CVXDD Economical Model LY 810 Computer C Automatic Coil Winding Machine. Designed for precision and efficiency, this machine is suitable for winding wires from 0.03mm to 1.2mm, offering smooth and reliable operation for various coil winding applications.
Key features include:

- Advanced synchronous winding control for high precision and obstacle-free displacement.
- Intelligent self-inspection functions, including error detection, excessive speed tracking, and speed calibration.
- Integrated vernier caliper functions for easy measurement of winding width and starting points.
- Adjustable cop motor speed during operation, with synchronized strand oscillator.
- Customizable speed growth time after cop motor startup, adaptable to machine type.
- Winding excessive speed detection with automatic speed reduction for stability.
- Parameter storage for 999 steps with off-power memory retention.
- Foot-switch connection for enhanced operational efficiency.

2. Setup and Installation

Before operating the machine, ensure it is placed on a stable, level surface. Unpack all components carefully and verify that all accessories are present.

2.1 Unpacking and Component Identification

Carefully remove the machine and all accessories from the packaging. Refer to the image below to identify the main unit and included accessories.



Figure 2.1: Main unit and included accessories, such as the foot pedal and various hex keys for adjustment.

2.2 Power Connection

Connect the power cord to the machine's power input port, typically located at the rear. Ensure the power switch is in the OFF position before connecting to a power outlet. The machine operates on a standard electrical supply as specified in the 'Specifications' section.



Figure 2.2: Rear view of the machine, highlighting the power input and cooling fan.

2.3 Spool and Wire Installation

Install the wire spool onto the designated holder. Thread the wire through the tensioning system and guide it to the winding spindle. Ensure the wire is properly aligned to prevent tangling or breakage during operation.



Figure 2.3: Front view of the machine, illustrating the wire guide and winding spindle assembly.

3. Operating Instructions

This section details the steps for operating the LY 810 machine, from power-on to completing a winding cycle.

3.1 Control Panel Overview

The machine's operations are managed via the control panel. Familiarize yourself with the buttons and display indicators.

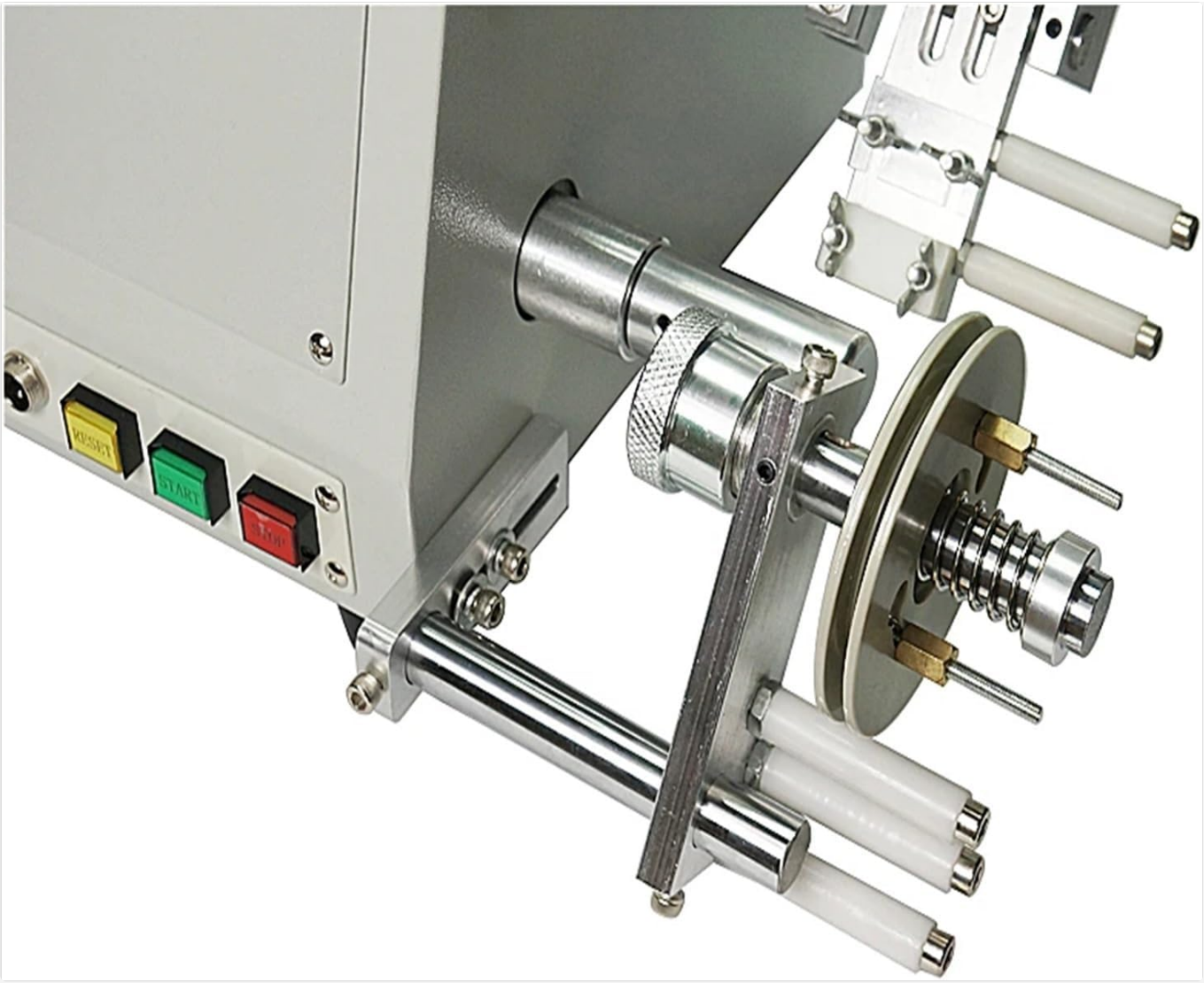

Figure 3.1: Detailed view of the control panel, showing the digital displays for RPM, QTY, and STEP, along with the numeric keypad and function buttons.

3.2 Basic Operation Steps

1. **Power On:** Flip the main power switch to the ON position. The control panel will illuminate.
2. **Parameter Setting:** Use the numeric keypad and function buttons (e.g., DATA SEL, STEP, SHIFT) to input winding parameters. These include:
    - Starting point
    - Wire gauge (0.03-1.2mm)
    - Winding displacement width (Max 110mm)
    - Number of circles/turns
    - Winding speed (Max 6000 circles/minute)
    - Slow lathe speed
    - Winding displacement direction
    - Winding direction
    - Two-terminal stopping
    - Automatic reset
    - Automatic start (job-hopping winding)

    The machine can store up to 999 groups of parameters.
3. **Load Coil Form:** Securely attach the coil form or bobbin to the winding spindle.

4. **Start Winding:** Press the **START** button on the control panel or use the foot switch to begin the winding process. The machine will automatically adjust speed and displacement according to the programmed parameters.
5. **Monitor Progress:** Observe the winding process and the digital displays on the control panel for real-time RPM and quantity counts.
6. **Stop Winding:** To pause or stop the winding process, press the**STOP** button. The machine also features an automatic stopping function upon completion of programmed turns.
7. **Unload Coil:** Once winding is complete, carefully remove the finished coil from the spindle.



Figure 3.2: The machine in operation, capable of producing various types of wound coils.

4. Maintenance

Regular maintenance ensures the longevity and optimal performance of your CVXDD LY 810 Coil Winding Machine.

- **Cleaning:** Regularly clean the machine's exterior and internal components (if accessible) to prevent dust and debris buildup. Use a soft, dry cloth. For stubborn dirt, a slightly damp cloth can be used, ensuring no moisture

enters electrical components.

- **Lubrication:** Periodically lubricate moving parts, such as the winding spindle and displacement mechanism, with appropriate machine oil as recommended by general industrial machine practices. Avoid over-lubrication.
- **Inspection:** Routinely inspect all cables, connections, and mechanical parts for signs of wear, damage, or looseness. Tighten any loose screws or fasteners.
- **Wire Guides:** Check the wire guides and tensioning system for wear or grooves that could damage the wire. Replace worn parts if necessary.
- **Fuse Replacement:** The machine is equipped with a fuse for electrical protection. If the machine fails to power on, check and replace the fuse if blown. Refer to the specifications for the correct fuse type.

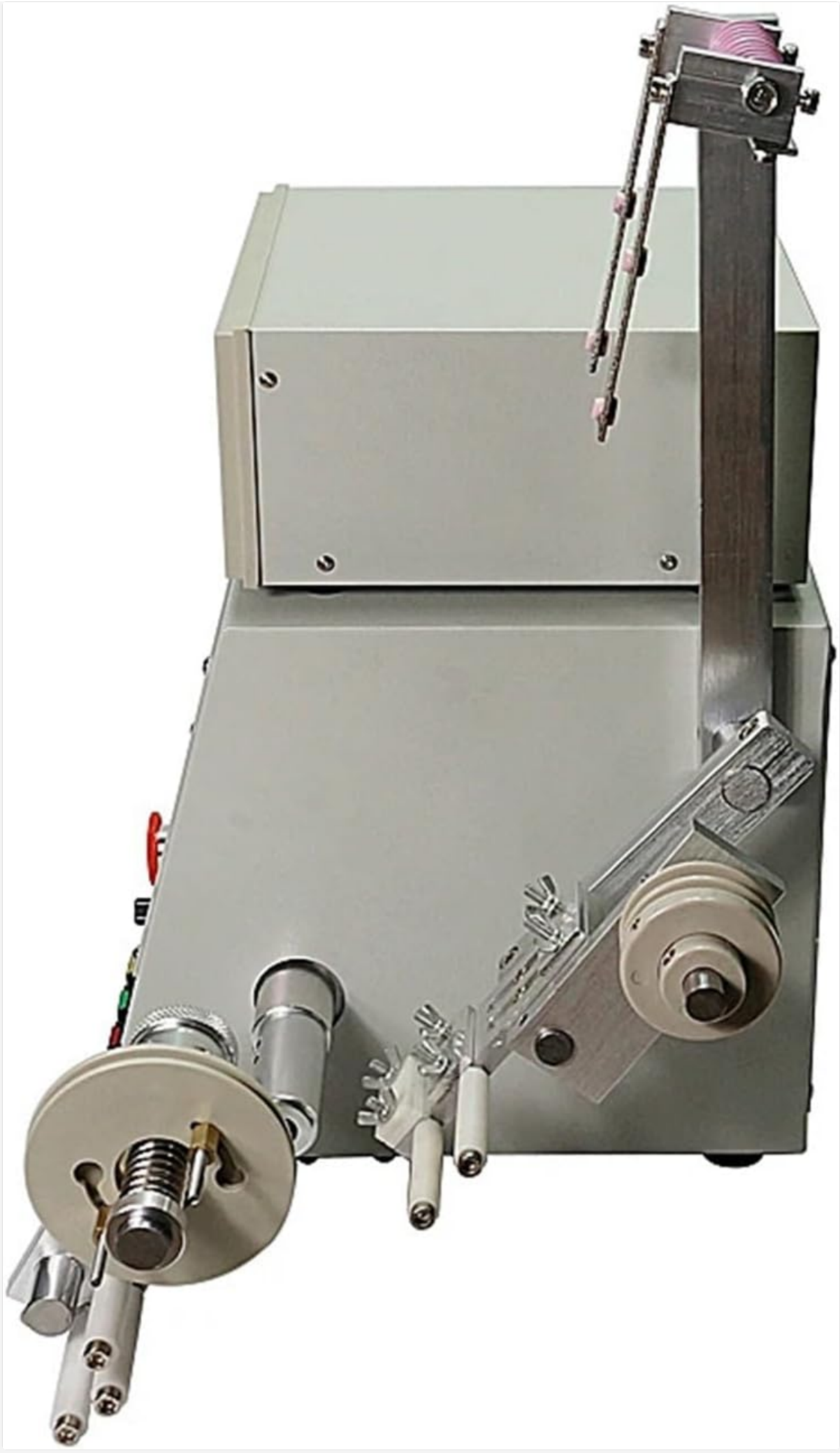

Figure 4.1: Location of the fuse holder and reset button for maintenance and troubleshooting.

Always disconnect the machine from the power source before performing any maintenance or cleaning.

5. Troubleshooting

This section provides solutions to common issues you might encounter with your coil winding machine. For problems not listed here, please contact customer support.

Problem	Possible Cause	Solution
Machine does not power on.	Power cord disconnected, blown fuse, power outlet issue.	Check power cord connection. Inspect and replace fuse if blown. Test power outlet with another device.
Winding is inconsistent or uneven.	Incorrect wire tension, worn wire guides, incorrect parameters.	Adjust wire tension. Inspect and replace worn wire guides. Verify programmed winding parameters.
Machine stops unexpectedly.	Overload, wire tangle, sensor error, emergency stop engaged.	Check for wire tangles or obstructions. Reset the machine. Ensure emergency stop button is disengaged. Reduce load if applicable.
Control panel unresponsive.	Software glitch, loose internal connection.	Power cycle the machine (turn off, wait 30 seconds, turn on). If issue persists, contact support.

6. Technical Specifications

The following table outlines the key technical specifications for the CVXDD LY 810 Computer C Automatic Coil Winding Machine.

Specification	Value
Model Number	LY 810 (1005005675309970)
Brand	CVXDD
Cop Motor	Three phase machine 400W (1/2hp)
Winding Displacement Machine	Step-servo motor
Spindle Motor	Brushless DC
Number of Cops	1
Windable Wire Gauge	0.03 - 1.2 mm
Maximum Winding Width	110 mm
Maximum Screw Diameter	120 mm
Maximum Turning Speed of Cop	6000 circles/minute (with speed adjust function)
Storable Winding Groups	999 groups
Counting Resolution	0.1 circle

Specification	Value
Complete Appliance Weight	30 kg (66.1 pounds)
Dimensions (L*W*H)	510 * 490 * 450 mm (20.08 * 19.29 * 17.72 inches approx.)
Country of Origin	China
First Available Date	December 30, 2024

7. Warranty Information

This product is covered by a manufacturer's warranty against defects in materials and workmanship. The specific terms and duration of the warranty may vary. Please retain your proof of purchase for any warranty claims. For detailed warranty information, refer to the documentation provided with your purchase or contact CVXDD customer support.

8. Customer Support

For technical assistance, troubleshooting beyond this manual, or inquiries regarding parts and service, please contact CVXDD customer support. When contacting support, please have your product model number (LY 810) and serial number (if applicable) ready.

CVXDD Customer Service:

- *Please refer to your purchase documentation for specific contact details (phone, email, or website).*
- *Online resources may be available on the official CVXDD website.*

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