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Lonsge 550W

Lonsge 550W Industrial Sewing Machine Servo Motor Instruction Manual

Model: 550W

1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your Lonsge 550W Industrial Sewing Machine Servo Motor. Please read this manual thoroughly before use to ensure proper function and safety. This servo motor is designed to provide efficient and precise speed control for various industrial sewing machines.

2. SAFETY INFORMATION

- Always disconnect the power supply before performing any installation, maintenance, or troubleshooting.
- Ensure the power supply voltage matches the motor's specifications (AC110V).
- Keep hands and loose clothing away from moving parts during operation.
- Do not operate the motor in wet or damp conditions.
- Ensure all connections are secure to prevent electrical hazards.
- Only use the motor for its intended purpose with compatible industrial sewing machines.

3. PACKAGE CONTENTS

Verify that all components are present in the package:

- 550W Brushless Servo Motor
- Controller Unit
- Foot Switch
- Mounting Hardware (bolts, washers, nuts, rubber pads)
- Connecting Rod
- · Instruction Manual

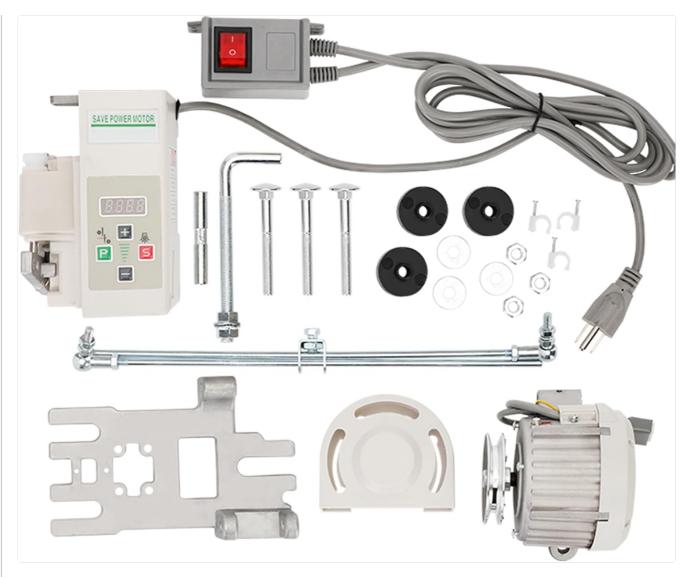


Figure 3.1: All components included in the Lonsge 550W Industrial Sewing Machine Servo Motor package. This image displays the servo motor, its electronic controller, a foot pedal, various bolts, nuts, washers, and a connecting rod, all laid out on a white surface.

4. PRODUCT FEATURES

The Lonsge 550W Industrial Sewing Machine Servo Motor offers several key features:

- **High Compatibility:** Suitable for various industrial sewing machine types.
- Powerful Performance: 550W, 3/4HP motor with adjustable speed from 200 RPM to 6000 RPM.
- **Energy Efficient:** Saves up to 70% electricity compared to traditional clutch motors.
- Quiet Operation: Brushless design ensures minimal noise and vibration.
- **High Precision Control:** Digital controller allows for precise speed adjustments.
- **Durable Construction:** Features a pure copper coil and aluminum sheath for excellent temperature resistance and multi-layer protection.
- Easy Installation: Designed for straightforward installation by aligning with existing motor holes.
- Multiple Protections: Includes over-current, over-voltage, under-voltage, short-circuit, and blocking protection.



Figure 4.1: The motor's control panel with a digital display and buttons for speed adjustment, emphasizing high precision, fast sewing speed, and low noise output.



Figure 4.2: An illustration of the motor's underside, highlighting its cost-effectiveness, integrated safety features, and robust construction.

Comparisons The 550W, and 450W sewing machine motors share the same specifications, however, higher power ratings provide greater torque for driving the sewing machine Our: Energy saving and quiet High quality and performance Others: Noisy and bulky Not energy efficient Others: Noisy and bulky Not energy efficient

Figure 4.3: A visual comparison demonstrating the Lonsge servo motor's superior energy efficiency, quiet operation, and overall quality compared to other models.

5. SETUP AND INSTALLATION

Follow these steps to install your Lonsge 550W Industrial Sewing Machine Servo Motor:

- 1. **Mounting the Motor:** Align the servo motor with the existing motor mounting holes on your industrial sewing machine table. Secure it using the provided mounting hardware (bolts, washers, nuts). Ensure the motor is stable and properly aligned with the machine's pulley.
- 2. **Connecting the Foot Switch:** Plug the foot switch cable into the designated port on the motor's controller unit
- 3. Connecting the Power: Plug the motor's power cord into a standard AC110V outlet.
- 4. **Connecting Rod Adjustment:** Attach the connecting rod between the foot switch and the sewing machine's pedal mechanism. Adjust its length to ensure comfortable and responsive operation of the foot switch.



Figure 5.1: The Lonsge 550W servo motor assembly, including the motor, controller, and foot switch, illustrating its compact design and readiness for integration with an industrial sewing machine.

Video 5.1: This video provides an overview of the Lonsge Sewing Machine Servo Motor and its components, demonstrating its energy-saving, quiet, and adjustable speed features. It shows the motor from various angles and highlights the control panel.

Video 5.2: This video showcases the Lonsge Sewing Machine Servo Motor, emphasizing its suitability for various belt models, quiet operation, high precision, fast response, adjustable speed, and good stability. It also highlights its long service life and ease of installation and operation.

6. OPERATING INSTRUCTIONS

The servo motor's speed and parameters are adjusted via the controller unit.

- 1. Power On/Off: Use the red switch on the external power box to turn the motor on or off.
- 2. **Speed Adjustment:** Use the '+' and '-' buttons on the controller to increase or decrease the motor speed. The digital display will show the current RPM setting. The speed range is 200 RPM to 6000 RPM.
- 3. **Direction Control (CW/CCW):** The motor supports both clockwise (CW) and counter-clockwise (CCW) rotation. Refer to the detailed manual for specific instructions on how to change the rotation direction, usually involving a 'P' (Parameter) button and a specific code.
- 4. **Foot Switch Operation:** The foot switch provides variable speed control during sewing. Pressing the pedal further increases the speed up to the set maximum.



Figure 6.1: The motor and its components, emphasizing the ease of installation and operation. The image highlights that speed is controlled by the foot switch, and needle stop can be managed by a button on the controller.

7. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your servo motor:

- Cleaning: Periodically clean the motor and controller unit with a dry, soft cloth. Avoid using liquid cleaners or solvents.
- **Inspection:** Regularly inspect all cables and connections for signs of wear or damage. Ensure mounting bolts remain tight.
- Ventilation: Ensure the motor's ventilation openings are clear of dust and debris to prevent overheating.

8. TROUBLESHOOTING

If you encounter issues with your Lonsge 550W Industrial Sewing Machine Servo Motor, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Motor does not run (Error Code E-03)	Loose plug on the back of the motor.	Check and secure the plug connection on the back of the motor.
Motor runs but speed is inconsistent	Incorrect speed setting or faulty foot switch.	Verify speed settings on the controller. Inspect foot switch and connecting rod for proper function.
Unusual noise or vibration	Loose mounting, worn belt, or internal issue.	Check all mounting points for tightness. Inspect the drive belt for wear and tension. If issues persist, contact customer support.

9. SPECIFICATIONS

Feature	Specification
Model	550W
Power	550W (3/4 HP)
Voltage	AC110V
Speed Range	200 RPM to 6000 RPM
Motor Torque	3N.M ~ 5N.M
Input Frequency	50-60HZ
Product Dimensions	11.2 x 6.3 x 7.67 inches
Item Weight	7.37 pounds
Motor Construction	Pure copper coil, aluminum sheath



Figure 9.1: Detailed dimensions and electrical specifications of the Lonsge 550W Industrial Sewing Machine Servo Motor, including voltage, power, speed range, and motor torque.

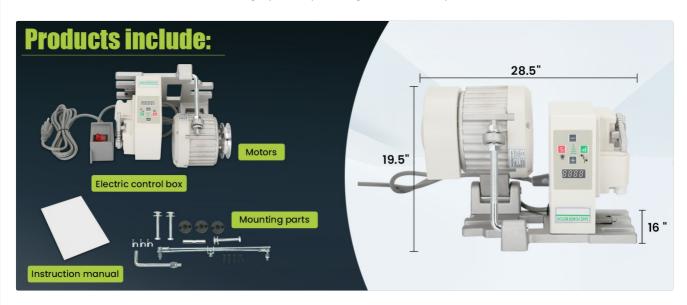


Figure 9.2: An internal view of the motor, showcasing the pure copper coil and aluminum rim, which contribute to its high temperature resistance, fine workmanship, durability, and multi-layer protection.

10. WARRANTY AND SUPPORT

Lonsge is committed to providing quality products and customer satisfaction. While specific warranty terms are not detailed here, we offer dedicated customer support.

- For any questions regarding product parameters, performance, suitability, or troubleshooting, please contact our customer service team.
- We commit to responding to all inquiries within 24 hours to provide a satisfactory solution.

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Related Documents - 550W



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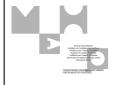
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