

Manuals+

[Q & A](#) | [Deep Search](#) | [Upload](#)

Manuals.plus /

› [Pxolerig](#) /

› Pxolerig 550W Industrial Sewing Machine Servo Motor User Manual

Pxolerig 110v sewing machine electric motor

Pxolerig 550W Industrial Sewing Machine Servo Motor User Manual

Model: 110V Sewing Machine Electric Motor

INTRODUCTION

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your Pxolerig 550W Industrial Sewing Machine Servo Motor. Please read these instructions carefully before use and retain them for future reference.

SAFETY INSTRUCTIONS

Always observe the following safety precautions to prevent injury or damage to the equipment:

- Ensure the power supply matches the motor's voltage (AC110V, 60Hz).
- Disconnect power before performing any installation, maintenance, or adjustments.
- Keep hands, hair, and loose clothing away from moving parts, especially the pulley and belt, during operation.
- Do not operate the motor in wet or damp conditions.
- Ensure the motor is securely mounted to prevent vibration and instability.
- Use appropriate personal protective equipment (PPE) when necessary.

PACKAGE CONTENTS

Verify that all items are present in the package:

- 1x Pxolerig 550W Industrial Sewing Machine Servo Motor
- 1x Power Switch Box with Fuse
- 1x Motor Mounting Bracket
- 1x Foot Pedal Linkage Rod Assembly
- 3x Carriage Bolts with Nuts and Washers
- 3x Rubber Vibration Dampeners
- Small hardware (screws, washers, nuts)

- 1x Chinese Manual (Motor) - Note: This document serves as the English manual.



Image: All accessories included with the Pxolerig 550W Industrial Sewing Machine Servo Motor, including the motor, power switch, mounting hardware, and linkage rod.

PRODUCT FEATURES

- **Powerful Performance:** 550W pure copper motor with a maximum speed of 6500rpm, supporting up to 3500 stitches/min for high efficiency.
- **Durable Construction:** Made from premium iron, pig iron, blister board, plastic, and aluminum for extended service life.
- **Cost-Effective:** High-quality copper wire (99.5% purity) ensures excellent thermal and electrical conductivity.
- **Sturdy Design:** Features needle roller bearings in the controller arm to reduce wear and shock absorbers to

minimize vibration and extend lifespan.

- **Adjustable Speed:** Precise speed control via foot pedal and a dedicated speed adjustment knob.
- **Direction Reversal:** Equipped with a switch to reverse motor rotation direction, compatible with various sewing machines and industrial equipment.
- **Integrated Power Outlet:** A 110V outlet on the motor allows for convenient connection of a sewing light.

SETUP AND INSTALLATION

1. Mounting the Motor

The motor is designed for under-table mounting. Use the provided carriage bolts, nuts, and rubber vibration dampeners to secure the motor to your sewing machine table. Ensure the rubber dampeners are positioned between the motor and the table, with the small extension facing the motor, to minimize vibration transfer.



Image: The Pxolorig servo motor securely mounted underneath a sewing machine table, showing the mounting bracket and connections.

2. Belt Installation and Adjustment

Connect the motor's pulley to your sewing machine's handwheel using a V-belt (typically 3/8-inch width, 39-42 inches in length). Adjust the belt tension using the two nuts on the threaded rod of the motor's mounting bracket. The belt should be taut but not overly tight.



Image: A close-up view of the motor's pulley and the threaded rod with nuts used for adjusting belt tension.

3. Foot Pedal Linkage

Attach the provided linkage rod to the motor's control arm and your sewing machine's foot pedal. This linkage translates foot pedal movement into motor speed control.

4. Electrical Connection

Plug the motor's power cord into a standard AC110V, 60Hz outlet. The motor also features a 110V outlet on its back for connecting a sewing light, which will turn on automatically with the motor.

OPERATING INSTRUCTIONS

1. Power On/Off

Use the red switch on the external power switch box to turn the motor on or off. The motor's digital display will illuminate when powered on.

2. Speed Adjustment

The motor's speed is primarily controlled by the foot pedal. For finer control or to limit the maximum speed, use the speed adjustment knob located on the motor's control panel. Rotate the knob to set your desired maximum RPM.



Image: A detailed view of the motor's control panel, showing the digital display, speed adjustment buttons, and power indicator.

3. Direction Reversal

A reversible switch is located on the motor's side, allowing you to change the direction of rotation. This feature ensures compatibility with various types of industrial sewing machines and other equipment that may require different rotation directions.

Video: Demonstration of the Pxolerig Industrial Sewing Machine Servo Motor's features, including intelligent foot control, adjustable

spring hook, 75mm pulley, safety protection with thickened belt cover, adjustable motor angle, one-piece die-cast body, 3-point fix for easy installation, and independent power switch.

Video: A brief overview of the sewing motor's operation, demonstrating power on, speed adjustment, and motor rotation.

MAINTENANCE

- Regularly inspect the motor and belt for any signs of wear or damage. Replace worn parts promptly.
- Keep the motor clean and free from dust and lint, which can accumulate and affect performance.
- Check electrical connections periodically to ensure they are secure.
- The motor is designed for long-term use with minimal maintenance. Carbon brushes are included as spares but typically do not require immediate replacement.

TROUBLESHOOTING

- **Motor not starting:** Check the power connection, ensure the power switch is on, and verify the fuse in the switch box.
- **Irregular speed or power:** Ensure the belt tension is correct and the foot pedal linkage is properly connected and moving freely. Check the speed adjustment knob setting.
- **Excessive noise or vibration:** Confirm the motor is securely mounted and the vibration dampeners are correctly installed. Inspect the belt for damage or misalignment.
- **Motor running in wrong direction:** Use the direction reversal switch on the motor to correct the rotation.

SPECIFICATIONS

Feature	Specification
Brand	Pxolerig
Model	110v sewing machine electric motor
Power	550W
Voltage	AC110V, 60Hz
Motor Type	Pure Copper Brushless Servo Motor
Speed Range	200-6500rpm
Max. Sewing Speed	3500 stitches/min
Noise Level	Approximately 30dB
Presser Foot Lift	5.5mm (0.22in)
Material	Iron, Pig Iron, Blister Board, Plastic, Aluminum
Product Dimensions	25.5 x 14.5 x 16.7 cm (10 x 5.7 x 6.6 inches)
Net Weight	3.5kg (7.7lbs)

WARRANTY AND SUPPORT

For any issues or questions regarding your Pxolerig 550W Industrial Sewing Machine Servo Motor, please contact the seller or manufacturer for assistance. Refer to your purchase documentation for specific warranty details.