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Ejoyous Ejoyouse1c24pg3uw-12

Ejoyous 750W Brushless Servo Motor for Sewing Machines - Instruction Manual

Model: Ejoyouse1c24pg3uw-12

1. Introduction

This manual provides essential instructions for the safe and efficient installation, operation, and maintenance of your Ejoyous 750W Brushless Servo Motor. This energy-efficient motor is designed for both industrial and household sewing machines, offering adjustable speed control and a durable, maintenance-free brushless design. Please read this manual thoroughly before use to ensure optimal performance and safety.

2. Safety Instructions

- **Electrical Safety:** Ensure the motor is connected to a 220V EU standard power outlet. Always disconnect the power supply before performing any installation, maintenance, or troubleshooting. Do not operate the motor with wet hands or in damp conditions.
- **Installation:** Ensure the motor is securely mounted to a stable surface. Keep hands and loose clothing away from moving parts, especially the pulley, during operation.
- **Operation:** Do not overload the motor. If unusual noises or excessive heat occur, immediately turn off the motor and disconnect power.
- **Children and Pets:** Keep the motor and its components out of reach of children and pets.

3. Package Contents

Carefully unpack the box and verify that all the following components are included:

- 1 x Servo Motor
- 1 x Motor Control Box
- 1 x Pedal
- 1 x Pair of Pedal Connecting Rods
- 3 x Mounting Bolts

- 3 x Hexagonal Nuts
- 3 x Elastic Washers
- 3 x Cable Crimps
- 1 x Pair of Self-Tapping Screws (large)
- 2 x Small Self-Tapping Screws
- 1 x User Manual (this document)

Note: *Due to product updates, new and old models may be shipped randomly. While functionality remains consistent, minor aesthetic differences in connectors or components may be present.*



Figure 3.1: Complete package contents

4. Setup and Installation

The Ejoyous servo motor features a split design for easier installation. Follow these steps to install the motor on your sewing machine:

1. **Mount the Motor:** Attach the servo motor to the designated mounting points on your sewing machine table or stand using the provided mounting bolts, hexagonal nuts, and elastic washers. Ensure the motor is securely fastened and aligned with the sewing machine's handwheel. *(Note: Some users have reported that the mounting bracket may be slightly narrower than traditional motors, requiring new holes to be drilled. Use the provided screws for this purpose if necessary.)*



Figure 4.1: Servo Motor Mounting Bracket

2. **Install the Control Box:** Mount the motor control box in a convenient location, typically under the sewing machine table, using the provided self-tapping screws.
3. **Connect the Pedal Mechanism:** Attach the pedal mechanism to the control box. Connect the pedal connecting rods to the pedal and the sewing machine's existing pedal linkage. Ensure the pedal operates smoothly and returns to its resting position.

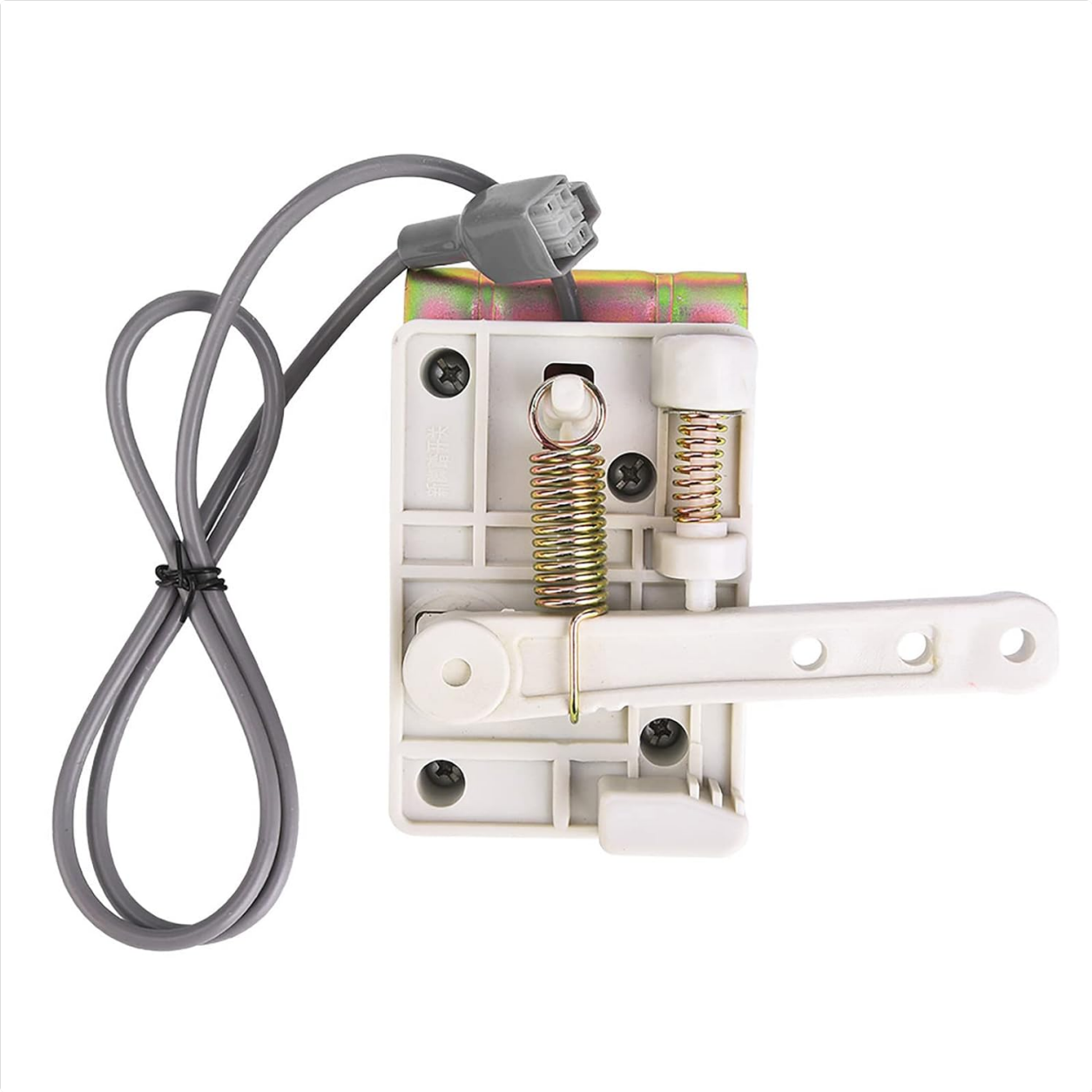


Figure 4.2: Pedal Mechanism

4. **Connect Motor to Control Box:** Plug the motor's cable into the corresponding port on the control box.
5. **Connect Power:** Plug the control box's power cable into a standard 220V EU power outlet.
6. **Final Checks:** Before powering on, double-check all connections for security and ensure no cables are pinched or obstructing moving parts.



Figure 4.3: Motor and Control Box installed on a sewing machine

5. Operating Instructions

1. **Power On:** Flip the power switch on the control box to the 'ON' position. The digital display will illuminate.
2. **Adjust Speed:** Use the '+' and '-' buttons on the control box to adjust the desired sewing speed. The speed is continuously adjustable, allowing precise control for various sewing tasks. The display will show the current speed setting.



Figure 5.1: Control Box Interface

3. **Start/Stop Operation:** Press the pedal to start the sewing machine. The motor will respond instantly. Release the pedal to stop. The quick start and stop function helps save energy by preventing idle power consumption.
4. **Direction Setting (if applicable):** If your machine requires a specific rotation direction, consult the control box's 'Setting' button or refer to the label on the control box for instructions on how to change the motor's rotation direction.
5. **Power Off:** After use, flip the power switch on the control box to the 'OFF' position and disconnect the power cord from the wall outlet.

6. Maintenance

The Ejoyous 750W Brushless Servo Motor is designed for long-term, low-maintenance operation due to its brushless design. This eliminates the need for brush replacement, common in traditional motors.

- **Cleaning:** Periodically wipe the motor and control box with a dry, soft cloth to remove dust and debris. Do not use liquid cleaners or solvents.
- **Inspection:** Regularly check all cables and connections for any signs of wear or damage. Ensure mounting bolts remain tight.

- **Ventilation:** Ensure the motor's ventilation holes are not obstructed to prevent overheating.

7. Troubleshooting

If you encounter issues with your Ejoyous servo motor, please refer to the following general troubleshooting tips. For more specific problems, contact customer support.

- **Motor Not Starting:**
  - Ensure the power cord is securely plugged into a live 220V outlet.
  - Check that the power switch on the control box is in the 'ON' position.
  - Verify all connections between the motor, control box, and pedal are secure.
- **Incorrect Speed or Erratic Operation:**
  - Check the speed setting on the control box display. Adjust as needed.
  - Ensure the pedal mechanism is not obstructed and moves freely.
- **Unusual Noise or Vibration:**
  - Turn off the motor immediately.
  - Check for any loose parts or obstructions around the motor or pulley.
  - Ensure the motor is securely mounted.

8. Specifications

Feature	Specification
Brand	Ejoyous
Model Number	Ejoyouse1c24pg3uw-12
Power	750 Watt
Voltage	220 Volts
Material	Metal
Package Dimensions	35.1 x 21.4 x 17.1 cm
Package Weight	3.72 kilograms
Motor Type	Brushless Servo Motor
Plug Type	EU Plug

9. Warranty and Support

A warranty card is included with your product. Please note that the warranty may be void if the product is damaged. For detailed warranty terms and conditions, or for technical support, please contact Ejoyous customer service directly. Information regarding spare parts availability is not provided in this manual.

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