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› [Focket](#) /

› [Focket 750W Servo Motor for Sewing Machines Instruction Manual](#)

Focket 750W

Focket 750W Servo Motor for Sewing Machines Instruction Manual

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation of your Focket 750W Servo Motor. This motor is designed for various sewing machines, including industrial, household, high-head, double-needle, and flat sewing machines. It features energy-saving capabilities, adjustable speed, and a brushless design for extended durability.

2. PACKAGE CONTENTS

Please verify that all components listed below are included in your package:

- 1 x Servo Motor
- 1 x Motor Controller
- 1 x Foot Pedal
- 1 pair of Pedal Connectors
- 3 x Installation Bolts
- 3 x Hexagon Nuts
- 3 x Washers
- 3 x Spring Washers
- 3 x Cable Pressure Clips
- 1 pair of Self-Tapping Screws (large)
- 2 x Small Self-Tapping Screws
- 1 x User Manual (this document)



Figure 2.1: Overview of the Focket 750W Servo Motor and its complete set of accessories.

3. KEY FEATURES

- **Energy Saving:** Quick start and shutdown with no idle power consumption, saving 60-75% energy compared to mechanical motors.
- **Adjustable Speed:** Infinitely adjustable speed from 0 to 4000 RPM, accommodating various sewing requirements.
- **Brushless Design:** Ensures long-term use without part replacement, maintenance-free operation, and extended service life.
- **Compact and Lightweight:** Simple structure, small size, and lighter weight (approximately one-third of a mechanical motor).
- **Split Design:** Facilitates convenient installation and ease of use.
- **Low Noise and Heat:** Operates quietly with minimal heat generation, reducing interference with other electronic devices.

4. SAFETY INFORMATION

Please read and understand all safety instructions before installation and operation. Failure to follow these

instructions may result in electric shock, fire, or serious injury.

- Ensure the power supply matches the motor's voltage (220V EU).
- Always disconnect power before performing any installation, maintenance, or troubleshooting.
- Keep hands and loose clothing away from moving parts during operation.
- Do not operate the motor in wet or damp conditions.
- Ensure proper grounding to prevent electrical hazards.
- If any unusual noise, smell, or smoke occurs, immediately turn off the power and contact support.

5. SETUP AND INSTALLATION

The Focket 750W Servo Motor is designed for straightforward installation. Follow these general steps:

1. **Mounting the Motor:** Securely attach the servo motor to your sewing machine table using the provided installation bolts, hexagon nuts, washers, and spring washers. Ensure the motor is stable and aligned with the machine's drive wheel.
2. **Connecting the Foot Pedal:** Connect the foot pedal to the motor controller using the pedal connectors.
3. **Connecting the Motor to the Controller:** Plug the motor's cable into the designated port on the motor controller.
4. **Power Connection:** Connect the motor controller to a suitable 220V power outlet.



Figure 5.1: Example of the servo motor and controller mounted on a sewing machine.



Figure 5.2: Side view of the servo motor, highlighting the pulley and mounting bracket.



Figure 5.3: Rear view of the servo motor, illustrating its cooling fins.



Figure 5.4: Close-up of the motor controller's connection ports.

6. OPERATING INSTRUCTIONS

Once installed, operate the servo motor as follows:

1. **Power On:** Flip the red power switch on the motor controller to the 'ON' position. The digital display will illuminate.
2. **Speed Adjustment:** Use the '+' and '-' buttons on the controller to adjust the desired maximum speed. The motor speed is continuously variable up to 4000 RPM.
3. **Direction Control:** Press the 'Direction' button to change the rotation direction of the motor if needed for your specific sewing machine.
4. **Needle Position (if applicable):** Some models may offer automatic needle stop functionality. Refer to the controller's specific programming options for setting needle up/down positions. Note that additional sensors or cables may be required for this feature to function correctly, and these may not be included or universally compatible.
5. **Operation:** Press the foot pedal to start the motor. The motor speed will correspond to the pressure applied to the pedal, up to the set maximum speed. Release the pedal to stop.



Figure 6.1: Motor controller display and control buttons for speed and direction.



Figure 6.2: Rear view of the motor controller, showing power input and other connections.



Figure 6.3: Example of a multi-pin cable connector used in the system.



Figure 6.4: Another view of a multi-pin cable connector.

7. MAINTENANCE

The Focket 750W Servo Motor features a brushless design, which significantly reduces maintenance requirements. No regular part replacement is needed for the motor itself.

- Keep the motor and controller clean and free from dust and debris.
- Periodically check all connections to ensure they are secure.

- Avoid exposing the unit to excessive moisture or extreme temperatures.

8. TROUBLESHOOTING

If you encounter issues with your servo motor, consider the following:

- **Motor Not Starting:**
 - Ensure the power switch is ON and the unit is properly plugged into a working outlet.
 - Check all cable connections between the motor, controller, and pedal.
- **Incorrect Speed/No Speed Control:**
 - Verify that the '+' and '-' buttons are functioning and the display shows the desired speed setting.
 - Ensure the foot pedal is correctly connected and not obstructed.
- **Automatic Needle Stop Not Working:**
 - The automatic needle stop feature often requires specific sensors or additional components that may not be universally included or compatible with all sewing machines. If this feature is critical, confirm compatibility and the presence of all necessary parts.
 - Consult the controller's programming options to ensure the needle stop function is enabled and configured correctly.
- **Unusual Noise or Vibration:**
 - Check for any loose mounting bolts or obstructions around the motor.
 - Ensure the motor pulley is correctly aligned with the sewing machine's drive wheel.

For persistent issues, please refer to the warranty and support section.

9. SPECIFICATIONS

Specification	Value
Brand	Focket
Power	750 Watts
Speed Range	0 ~ 4000 RPM
Maximum Torsion	7 N·M
Voltage	220 Volts
Material	Metal
Item Weight	3900 Grams
ASIN	B082R2GTL2
UPC	738587570653

10. WARRANTY AND SUPPORT

This product comes with a **12-month satisfaction guarantee**. If you have any questions, concerns, or require technical assistance, please contact the seller or manufacturer's customer service. Please retain your proof of purchase for warranty claims.