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### Richmat hja3

# Richmat HJA3 Actuator Motor User Manual

For Adjustable Electric Bed Frames and Electric Hospital Beds

## 1. PRODUCT OVERVIEW

The Richmat HJA3 Actuator Motor is designed for use in adjustable electric bed frames and electric hospital beds. It provides reliable motion control for various bed functions, enhancing user comfort and accessibility. This motor system includes the HJA3 motor driver and a wired handheld remote control.

### Key Features:

- Integrated System:** Includes the RICHMAT HJA3 motor driver and a 6-button handheld remote switch.
- Power Input:** Operates on AC 100-230 V.
- Powerful Thrust:** Maximum thrust of 6500 N x 2, suitable for robust bed adjustments.
- Mounting:** Features 2 mounting holes, 25 mm in diameter, with a distance of 581 mm ( $\pm 2$  mm) for secure installation to the bed frame.
- Remote Control Functions:** The 6-button remote allows independent adjustment of the back and feet sections of the bed (up and down).
- Expandability:** A 2-pin socket on the motor body allows connection to an independent motor (purchased separately) for adjusting the overall bed height from the ground.
- Non-Massage Function:** This specific HJA3 actuator motor model does not include a massage function.



Figure 1: Overview of the Richmat HJA3 Actuator Motor and its wired remote control.



Figure 2: The HJA3 Actuator Motor showing the power cord and remote connection points.

## 2. SETUP AND INSTALLATION

Before installation, ensure all components are present and undamaged. Installation should be performed by a qualified individual or with careful adherence to bed frame manufacturer instructions.

### 2.1 Unpacking

Carefully remove the actuator motor and remote control from their packaging. Inspect for any visible damage during transit. Retain packaging for future transport or storage.

### 2.2 Mounting the Actuator

The HJA3 motor is designed for direct mounting to compatible bed frames. Utilize the two mounting holes on the motor

body. These holes are 25 mm in diameter and spaced 581 mm ( $\pm 2$  mm) apart, center-to-center.

1. Align the motor with the designated mounting points on your bed frame.
2. Secure the motor using appropriate fasteners (not included, typically provided with the bed frame) through the mounting holes. Ensure a tight and stable connection to prevent movement during operation.

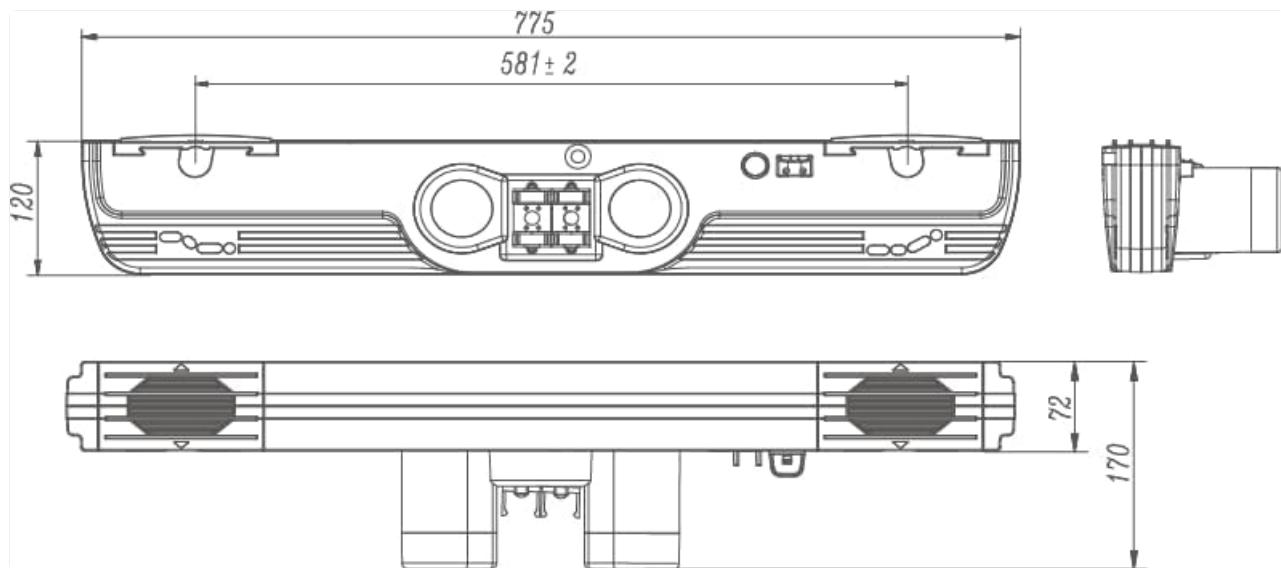


Figure 3: Dimensional drawing illustrating the mounting hole spacing (581 mm) and overall dimensions of the HJA3 motor.

## 2.3 Connecting the Remote Control and Power

1. Connect the wired remote control cable to the corresponding port on the HJA3 motor driver. Ensure the connection is secure.
2. Plug the motor's power cord into a standard AC 100-230 V electrical outlet.
3. If connecting an optional independent motor for bed height adjustment, plug its cable into the 2-pin socket located on the HJA3 motor body.

## 3. OPERATING INSTRUCTIONS

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The HJA3 actuator motor is controlled via the provided 6-button handheld remote. The remote features three sets of buttons, each controlling a specific function of the adjustable bed.

### 3.1 Remote Control Functions



Figure 4: The 6-button wired remote control for the HJA3 motor.

- **Head Section Adjustment:** Use the dedicated pair of buttons to raise or lower the head section of the bed.
- **Foot Section Adjustment:** Use the dedicated pair of buttons to raise or lower the foot section of the bed.
- **Overall Bed Adjustment:** Use the remaining pair of buttons to adjust the entire bed's position (e.g., flat or pre-set comfort positions, depending on bed frame capabilities).

Press and hold the desired button to initiate movement. Release the button to stop movement at the desired position.

### 3.2 Safety Precautions During Operation

- Ensure no obstructions are present under or around the bed frame during adjustment.
- Keep hands and feet clear of moving parts.
- Do not exceed the weight capacity of the bed frame.
- Avoid spilling liquids on the motor or remote control.

## 4. MAINTENANCE

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The Richmat HJA3 Actuator Motor is designed for low maintenance. Regular inspection and cleaning will help ensure its longevity and optimal performance.

### 4.1 Cleaning

- Before cleaning, always unplug the motor from the power outlet.
- Wipe the exterior of the motor and remote control with a soft, damp cloth.
- Do not use abrasive cleaners, solvents, or excessive moisture, as these can damage the components.
- Ensure all parts are dry before reconnecting to power.

## 4.2 Inspection

- Periodically check the power cord and remote control cable for any signs of fraying, cuts, or damage.
- Ensure all connections are secure and free from corrosion.
- Listen for any unusual noises during operation, which may indicate a problem.
- Verify that the motor's mounting to the bed frame remains secure.

*Note: The motor unit is sealed and not user-serviceable. Do not attempt to open the motor housing.*



Figure 5: Bottom view of the HJA3 motor, showing its sealed construction.

## 5. TROUBLESHOOTING

This section provides solutions to common issues you might encounter with your HJA3 Actuator Motor. If the problem persists after following these steps, contact customer support.

Problem	Possible Cause	Solution
Motor does not respond to remote control.	No power supply. Loose remote connection. Faulty remote control.	Ensure the power cord is securely plugged into a live outlet. Check the connection between the remote and the motor. Test the outlet with another device. If the issue persists, the remote or motor may require replacement.
Motor makes unusual noises.	Obstruction. Loose mounting. Internal mechanical issue.	Check for any objects obstructing the bed's movement. Verify that the motor is securely mounted to the bed frame. If the noise persists and there are no obstructions, discontinue use and contact support.

Problem	Possible Cause	Solution
Bed movement is jerky or inconsistent.	Overload. Power fluctuation. Internal motor issue.	Ensure the bed's weight capacity is not exceeded. Check power supply for stability. If the problem continues, the motor may be faulty.

## 6. PRODUCT SPECIFICATIONS

The following table details the technical specifications of the Richmat HJA3 Actuator Motor.



Figure 6: Product label displaying key specifications of the HJA3 motor.

Specification	Detail
Model Number	HJA3
Input Voltage	AC 100-230 V
Maximum Thrust	6500 N x 2
Mounting Hole Diameter	25 mm
Mounting Hole Distance (Center-to-Center)	581 mm ( $\pm 2$ mm)
Item Weight	Approximately 11.77 pounds
Product Dimensions (L x W x H)	Approximately 30 x 4.7 x 6.6 inches
Country of Origin	China
Date First Available	March 28, 2019

## 7. WARRANTY AND SUPPORT

### 7.1 Warranty Information

The Richmat HJA3 Actuator Motor comes with a **one-year warranty** for quality issues. This warranty covers defects in materials and workmanship under normal use.

Please retain your proof of purchase for warranty claims.

### 7.2 Customer Support

For technical assistance, troubleshooting beyond this manual, or warranty claims, please contact the seller or manufacturer directly. Refer to your purchase documentation for specific contact details.

When contacting support, please be prepared to provide the following information:

- Product Model: HJA3
- Date of Purchase
- Description of the issue

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