

Fruhdi KDPT007-272

Fruhdi Power Recliner Kaidi Motor KDPT007-272 Actuator Kit Instruction Manual

Model: KDPT007-272

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Fruhdi Power Recliner Kaidi Motor Model KDPT007-272 Actuator Kit. This kit is designed as a replacement part for electric sofas, massage chairs, and seat beds, specifically compatible with Kaidi motor models KDPT007-15 and KDPT007-08. Please read this manual thoroughly before installation and use to ensure proper function and safety.

2. IMPORTANT SAFETY INFORMATION

- **Maximum Load Capacity:** The actuator has a maximum weight capacity of 800N (approximately 179.96 pounds). Do not exceed this limit.
- **Power Supply:** Always use a genuine KD Power Supply with this actuator. Using an incompatible power supply may cause damage or present a safety hazard.
- **Duty Cycle:** Do not operate the actuator beyond its maximum duty cycle. Refer to the motor label for specific duty cycle information (typically 2 minutes ON and 18 minutes OFF, 10%). Continuous operation can lead to overheating and damage.
- **Intended Use:** This product is recommended for elderly care and individuals with mobility issues to assist with reclining and lifting functions in appropriate furniture.
- **Professional Installation:** If you are unsure about any installation steps, consult a qualified technician.



Image 2.1: Close-up view of the Kaidi motor label. This label displays critical information such as the model number (KDPT007-272), maximum load (800N), stroke length (333mm), rated voltage (DC 29V), rated input (75W), and duty cycle warnings. Always refer to this label for specific operational parameters and safety guidelines, including the instruction to use only a KD Power Supply.

3. PACKAGE CONTENTS

Please verify that all components are present and undamaged before proceeding with installation.

- Fruhdi Kaidi Motor Actuator (Model KDPT007-272)
- Power Transformer
- AC Power Cord

- 5-Pin Hand Control (Remote)
- Sub-motor Connection Cable (if applicable, for dual motor systems)

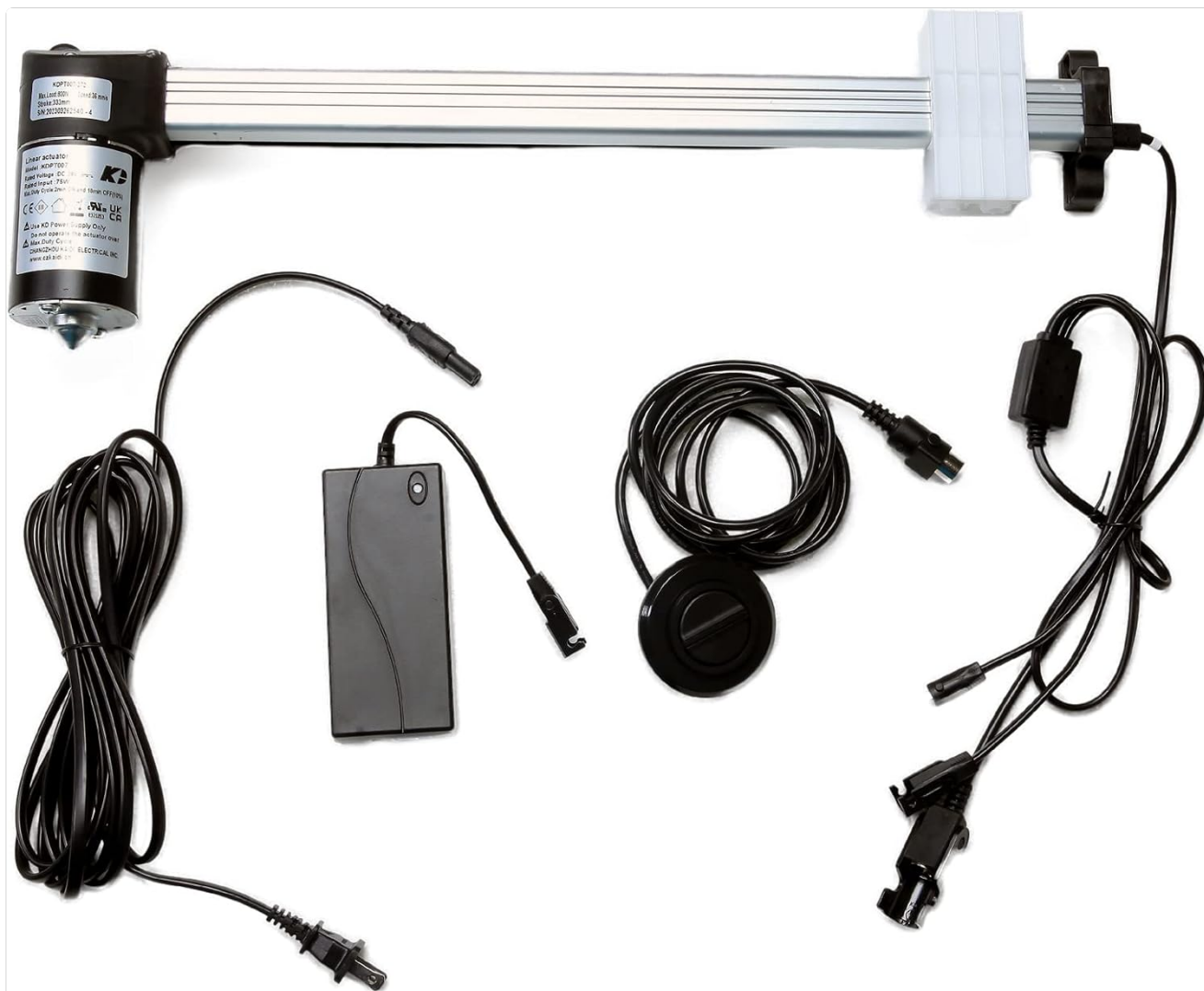


Image 3.1: Overview of the complete Fruhdi Power Recliner Actuator Kit. This image displays all included components: the main actuator motor, the power transformer, the AC power cord, the 5-pin hand control, and the necessary connection cables for a typical installation.

4. PRODUCT SPECIFICATIONS

Feature	Detail
Brand	Fruhdi
Model Name	Kaidi Motor
Item Model Number	KDPT007-272
Manufacturer	Kaidi
Stroke Length	333mm (approximately 13.11 inches)
Minimum Install Dimension	134mm (approximately 5.27 inches)
Max. Load Capacity	800N (approximately 179.96 pounds)
Rated Voltage	DC 29V

Rated Input	75W
Duty Cycle	2 minutes ON, 18 minutes OFF (10%)
Connections	2-Pin Flat Round Power Transformer, 2-Pin Flat Round Sub-motor, 5-Pin Hand Control Plug
Compatibility	Replaces Kaidi models KDPT007-15 and KDPT007-08
Item Weight	6.54 pounds
Package Dimensions	24.7 x 7.1 x 4.3 inches

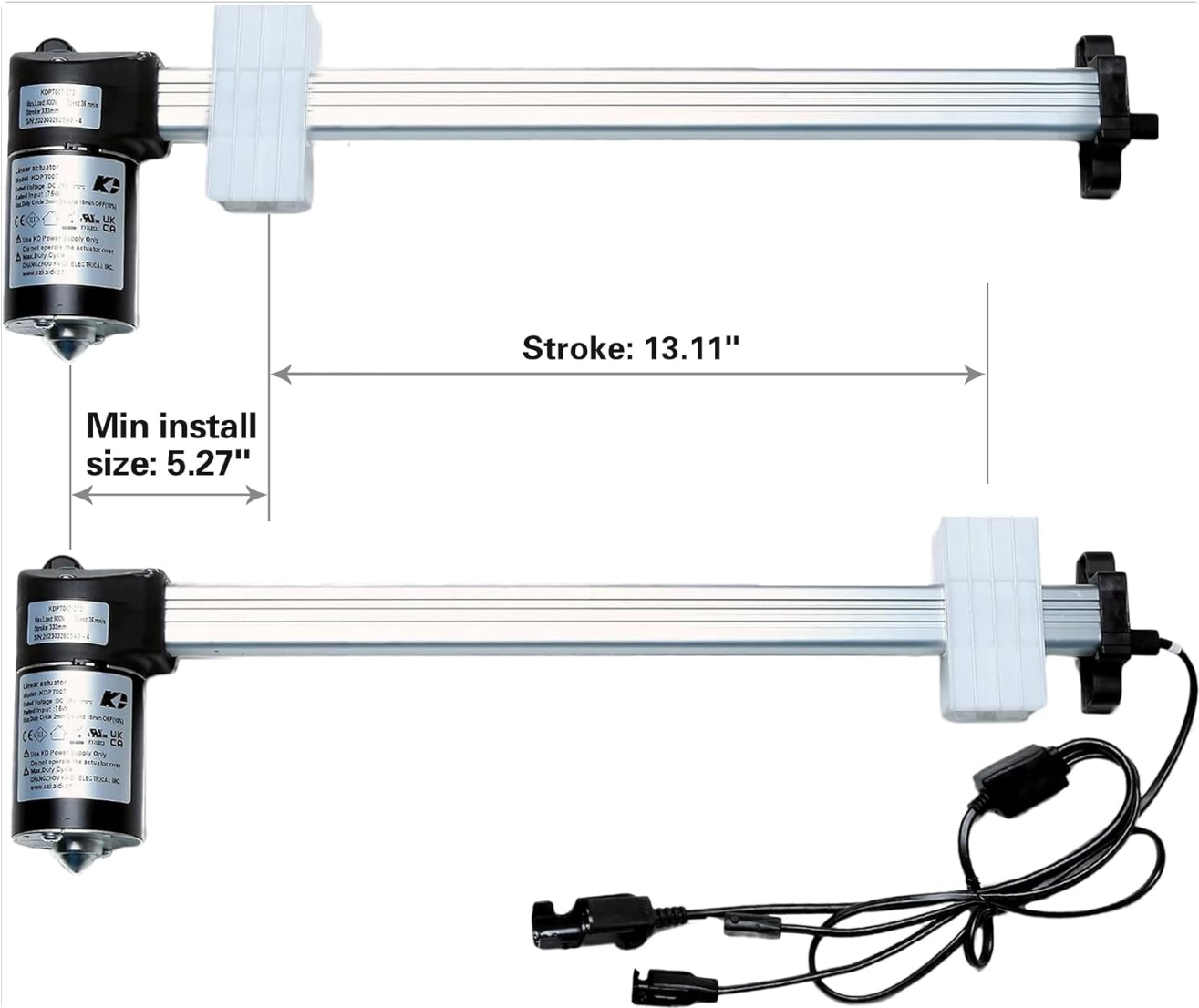


Image 4.1: Actuator dimensions. This diagram illustrates the critical measurements of the actuator: the stroke length of 13.11 inches (333mm) and the minimum installation dimension of 5.27 inches (134mm). These measurements are essential for verifying compatibility with your furniture.

5. INSTALLATION INSTRUCTIONS

Before beginning installation, ensure the furniture is unplugged from the power source. It is recommended to have assistance when handling heavy furniture components.

- 1. Identify Existing Actuator:** Locate the current actuator in your recliner or lift chair. Note its mounting points and cable connections.

2. **Disconnect Power:** Ensure the furniture is completely unplugged from the wall outlet.
3. **Disconnect Old Actuator:** Carefully disconnect all cables from the old actuator: the power transformer connection, the sub-motor connection (if present), and the hand control plug.
4. **Remove Old Actuator:** Unbolt or unclip the old actuator from its mounting brackets on the furniture frame.
5. **Install New Actuator:** Position the Fruhdi KDPT007-272 actuator in the same location as the old one. Secure it using the existing mounting hardware. Ensure the actuator is firmly attached and can move freely without obstruction.
6. **Connect Cables:**
 - Connect the 2-pin flat round plug from the power transformer to the corresponding port on the actuator.
 - If your furniture has a sub-motor (e.g., for headrest or lumbar), connect its 2-pin flat round plug to the designated port on the actuator.
 - Connect the 5-pin hand control plug to the appropriate port on the actuator.
7. **Secure Cables:** Route all cables safely, ensuring they are not pinched or tangled in moving parts of the furniture. Use cable ties if necessary.
8. **Initial Test:** Plug the furniture back into a power outlet. Carefully test the hand control to ensure the recliner functions correctly. Observe the actuator's movement to confirm smooth operation.

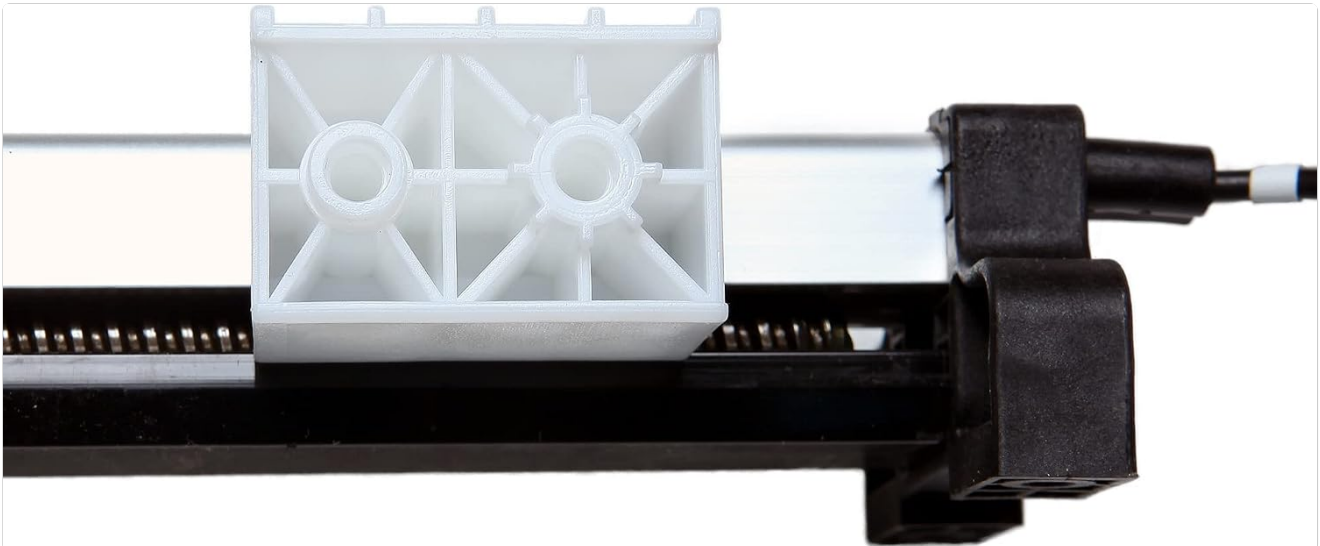


Image 5.1: Actuator mounting bracket. This image highlights the white plastic mounting bracket on the actuator, which is used to secure the unit to the furniture frame. Proper attachment is crucial for stable and reliable operation.

6. OPERATION

The Fruhdi Power Recliner Actuator is controlled via the included 5-pin hand control.

- **Recline Function:** Press and hold the appropriate button on the hand control to extend the footrest and recline the backrest. Release the button when the desired position is reached.
- **Upright Function:** Press and hold the opposite button on the hand control to retract the footrest and return the backrest to an upright position. Release the button when the desired position is reached.
- **Lift Function (if applicable):** For lift chairs, a dedicated button will typically tilt the chair forward to assist the user in standing up.

Always ensure there are no obstructions in the path of the reclining mechanism before operating the chair. Avoid sudden stops during operation to prolong the life of the motor.

7. MAINTENANCE

Regular maintenance helps ensure the longevity and smooth operation of your actuator kit.

- **Cleaning:** Wipe clean the exterior of the actuator and cables with a dry or slightly damp cloth. Do not use abrasive cleaners or immerse any part of the kit in water.
- **Cable Inspection:** Periodically inspect all cables for signs of wear, fraying, or damage. Ensure connections are secure. Replace damaged cables immediately.
- **Mounting Points:** Check that the actuator remains securely fastened to its mounting brackets. Tighten any loose screws if necessary.
- **Moving Parts:** Ensure that the actuator's moving parts are free from debris and obstructions. Do not lubricate the actuator unless specifically instructed by the manufacturer.

8. TROUBLESHOOTING

If your recliner or lift chair is not functioning correctly, perform the following checks before seeking professional assistance:

Problem	Possible Cause	Solution
Actuator does not move	No power to the unit	Ensure the power cord is securely plugged into a working wall outlet and the power transformer. Check for tripped circuit breakers.
Actuator does not move	Loose or disconnected cables	Verify all 2-pin and 5-pin connections are firmly seated.
Actuator does not move	Faulty hand control	Inspect the hand control for visible damage. If possible, test with a known working hand control.
Actuator does not move	Overheating (due to exceeding duty cycle)	Allow the motor to cool down for at least 18 minutes before attempting operation again. Adhere to the specified duty cycle.
Actuator moves slowly or with difficulty	Obstruction in mechanism	Check for any objects, fabric, or debris obstructing the recliner mechanism or the actuator's path.
Actuator moves slowly or with difficulty	Overload	Ensure the weight on the chair does not exceed the 800N (179.96 lbs) maximum load capacity.

If troubleshooting steps do not resolve the issue, it may indicate a faulty component (motor, power supply, or hand control). In such cases, contact customer support for further assistance.

9. WARRANTY AND SUPPORT

For information regarding warranty coverage, returns, or technical support for your Fruhdi Power Recliner Kaidi

Motor KDPT007-272 Actuator Kit, please refer to the original purchase documentation or contact Fruhdi customer service directly. Contact details can typically be found on the product packaging or the retailer's website where the item was purchased.

When contacting support, please have your product model number (KDPT007-272) and purchase date readily available.