Kariwust KDPT007-117

Kariwust Linear Actuator KDPT007-117 Power Recliner Motor Replacement Manual

Model: KDPT007-117

Introduction

This manual provides instructions for the installation, operation, and maintenance of the Kariwust Linear Actuator, Model KDPT007-117. This motor is designed as a replacement for Kaidi Model KDPT007-117 and similar linear actuators used in power recliners and lift chairs.

Key Features:

- Direct replacement for OEM Kaidi Power Recliner Lift Chairs Motor Actuator Model KDPT007-117.
- Features a 2-pin flat round male power transformer connection and a 5-pin female hand control connection.
- Stroke: 330 mm (12.99 inches).
- Minimum install dimension: 48 mm (1.89 inches).
- Speed: 36 mm/s.
- Maximum load capacity: 1500 N.

Important: Always verify the model number and connector types of your existing motor against the specifications of this replacement motor (KDPT007-117) before proceeding with installation.

Safety Information

- Disconnect power to the recliner or lift chair before attempting any installation or maintenance.
- Ensure all connections are secure and correctly oriented to prevent electrical hazards or malfunction.
- Do not exceed the maximum load capacity of 1500 N (approximately 152 kg or 335 lbs).
- Use only with compatible power supplies and hand controls.
- Keep hands and loose clothing clear of moving parts during operation.

Setup and Installation

This section outlines the general steps for replacing a linear actuator. Specific chair designs may vary, so refer to your chair's original manual if available.

1. Preparation

1. **Disconnect Power:** Unplug the recliner or lift chair from the wall outlet.
2. **Position Chair:** Carefully turn the chair onto its side or back to access the motor assembly.
3. **Identify Connections:** Note the connections of the existing motor to the power transformer and the hand control.

2. Removing the Old Actuator

1. **Disconnect Cables:** Carefully unplug the power cable (2-pin flat round) and the hand control cable (5-pin female) from the old motor.
2. **Remove Mounting Pins:** Locate the mounting pins or bolts that secure the actuator to the chair frame. Remove these pins/bolts. Keep them for reinstallation.
3. **Extract Actuator:** Once disconnected and unmounted, carefully remove the old linear actuator from the chair frame.



Figure 1: Illustration of the 2-pin flat round power connector and the 5-pin female hand control connector. Ensure these match your existing setup.

3. Installing the New Actuator

1. **Position New Actuator:** Place the new KDPT007-117 linear actuator into the mounting brackets on the chair frame.
2. **Secure Mounting Pins:** Reinsert the mounting pins or bolts to secure the actuator firmly in place. Ensure they are tight but do not overtighten.
3. **Connect Cables:**
    - Connect the 2-pin flat round power cable from the power transformer to the corresponding port on the new motor.
    - Connect the 5-pin female hand control cable to the corresponding port on the new motor.
4. **Cable Management:** Ensure all cables are routed safely and are not pinched or in the way of moving parts.

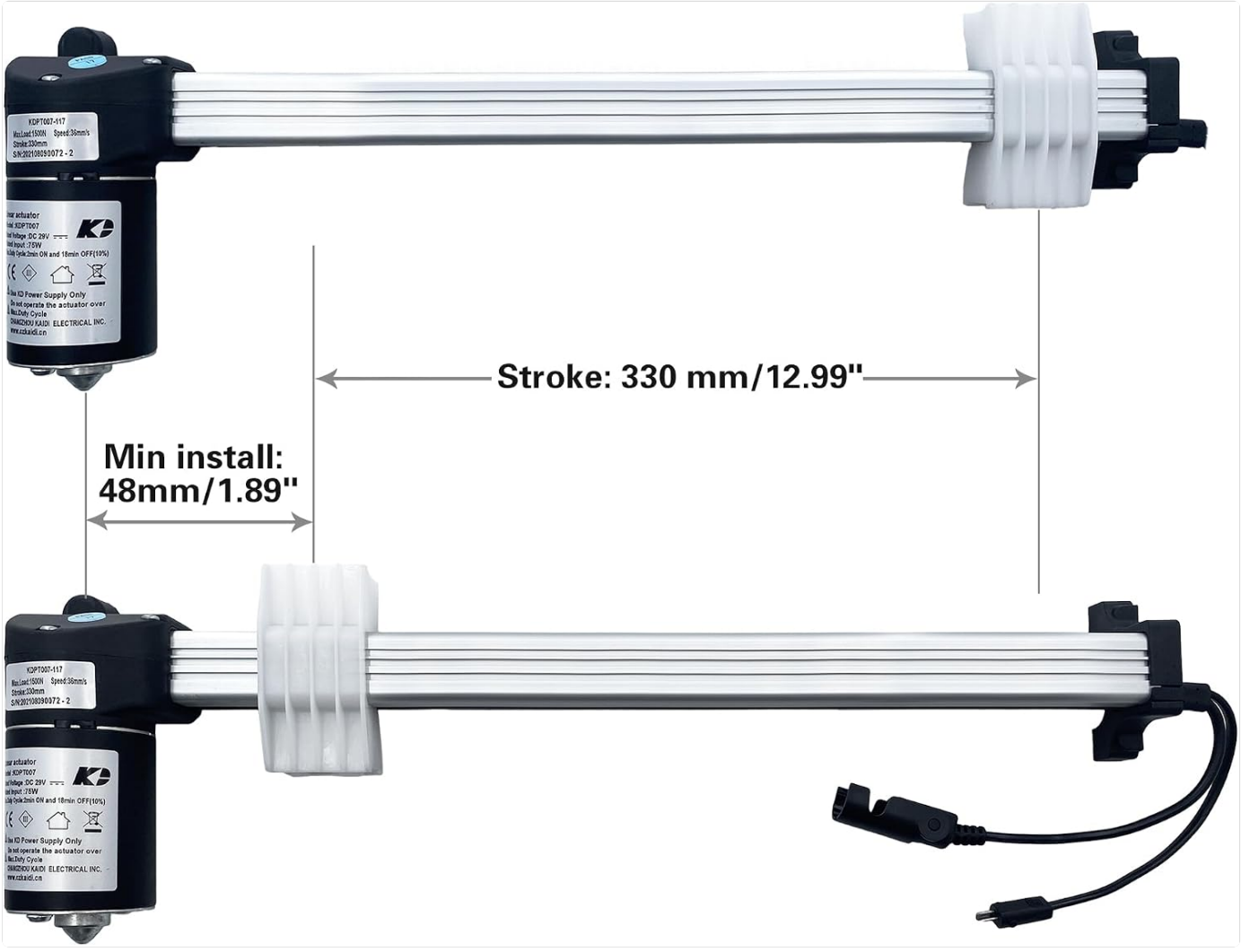


Figure 2: The linear actuator showing its stroke length and minimum installation dimension. Verify these dimensions are suitable for your chair.

Operating Instructions

Once the KDPT007-117 linear actuator is correctly installed and all connections are secure:

1. **Restore Power:** Plug the recliner or lift chair power cord back into a wall outlet.
2. **Test Operation:** Use the hand control to test the full range of motion of the recliner or lift chair.
3. **Smooth Movement:** The actuator should extend and retract smoothly without unusual noises or jerky movements. If any issues arise, refer to the Troubleshooting section.

Duty Cycle: The motor has a maximum duty cycle of 2 minutes ON and 18 minutes OFF (10%). Avoid continuous

operation for extended periods to prevent overheating and prolong motor life.

Maintenance

Regular maintenance helps ensure the longevity and proper function of your linear actuator.

- **Cleaning:** Periodically clean the exterior of the actuator with a dry, soft cloth. Avoid using harsh chemicals or abrasive cleaners.
- **Inspect Cables:** Regularly check all power and control cables for any signs of wear, fraying, or damage. Replace damaged cables immediately.
- **Check Connections:** Ensure all electrical connections remain secure and free from corrosion.
- **Lubrication:** The internal components of the actuator are factory-lubricated and generally do not require additional lubrication. Do not attempt to open the motor housing.
- **Mounting Points:** Verify that the actuator's mounting pins or bolts are secure and not loose.

Troubleshooting

If you encounter issues with your linear actuator, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Motor does not move when hand control is pressed.	No power to the chair. Loose or disconnected power cable. Faulty hand control. Overload protection activated.	Check if the chair is plugged into a working outlet. Ensure the 2-pin power cable is securely connected to the motor and transformer. Test with a known working hand control if available. Allow the motor to cool down for 20-30 minutes if it was operated continuously.
Motor moves slowly or with difficulty.	Chair mechanism binding. Actuator overloaded. Low voltage.	Inspect the chair's frame and moving parts for obstructions or damage. Ensure the load on the chair does not exceed 1500 N. Verify the power supply is providing adequate voltage (DC 29V).
Unusual noise during operation.	Loose mounting hardware. Internal motor issue. Obstruction in the chair mechanism.	Check and tighten all mounting pins/bolts. Inspect the chair for any objects interfering with movement. If noise persists and is internal to the motor, contact support.

Technical Specifications


KDPT007-117
Max.Load:1500N Speed:36mm/s
Stroke:330mm
S/N:202108090072 - 2
Linear actuator
Model :KDPT007
Rated Voltage :DC 29V
Rated Input :75W
Max.Duty Cycle:2min ON and 18min OFF(10%)
III
Use KD Power Supply Only
Do not operate the actuator over Max.Duty Cycle
CHANGZHOU KAIDI ELECTRICAL INC.
www.czkaidi.cn

Figure 3: Product label detailing technical specifications of the KDPT007-117 linear actuator.

Specification	Value
Model	KDPT007-117
Stroke	330 mm / 12.99 inches
Minimum Install Dimension	48 mm / 1.89 inches
Speed	36 mm/s
Max. Load	1500 N
Rated Voltage	DC 29V
Rated Input	75W
Max. Duty Cycle	2 minutes ON and 18 minutes OFF (10%)
Material	Aluminum
Item Weight	2.27 Kilograms

Warranty Information

Specific warranty terms for the Kariwust Linear Actuator KDPT007-117 may vary. Please retain your proof of purchase.

For detailed warranty information or to make a warranty claim, please contact the seller or manufacturer directly. Refer to your purchase documentation for contact details.

Customer Support

If you have any questions, require technical assistance, or need further support regarding your Kariwust Linear Actuator KDPT007-117, please contact us through the following channels:

- **Online Store:** Visit the Kariwust Store on Amazon for product information and seller contact options.
- **Manufacturer:** Kaidi (as indicated on the product label). For direct manufacturer support, refer to the contact information provided on the product packaging or their official website (e.g., www.czkaidi.cn).

When contacting support, please have your product model number (KDPT007-117) and purchase details readily available.

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Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question