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Kariwust KDYJT013-105

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INTRODUCTION

This manual provides instructions for the Kariwust Linear Actuator, Model KDYJT013-105. This component is designed as a replacement motor for power recliner lift chairs. Please read these instructions carefully before installation and operation to ensure proper function and safety.

Power Recliner Kaidi Linear Actuator Model KDYJT013-105



Image: Kariwust Linear Actuator Kaidi Model KDYJT013-105 shown with a recliner chair, illustrating its application.

SAFETY INFORMATION

Adhere to the following safety guidelines during installation, operation, and maintenance:

- **Power Disconnection:** Always disconnect the power supply to the recliner before performing any

installation, removal, or maintenance procedures.

- **Secure Connections:** Ensure all electrical connections are firm and correctly seated to prevent electrical hazards or malfunction.
- **Clear Moving Parts:** Keep hands, fingers, hair, and loose clothing clear of all moving parts of the actuator and recliner mechanism during operation.
- **No Unauthorized Opening:** Do not attempt to open, modify, or repair the motor housing. Refer servicing to qualified personnel.
- **Compatibility Check:** Verify that the model number on your existing actuator matches KDYJT013-105 or KDYJT006-20 to ensure proper compatibility and fit.

PRODUCT OVERVIEW

The Kariwust Linear Actuator Model KDYJT013-105 is an OEM Kaidi replacement motor designed for power recliner lift chairs. It features specific connections and dimensions for broad compatibility.

Key Features:

- Replaces Kaidi Model KDYJT006-20.
- 2-Pin flat round power transformer connection.
- 5-Pin hand control plug connection.
- Stroke: 250mm (9.84 inches).
- Minimum installation dimension: 433mm (17.05 inches).
- Maximum load: 1000N.
- Speed: 25mm/s.



Image: Close-up view of the Kaidi KDYJT013-105 linear actuator motor label, showing model number, maximum load, stroke, speed, rating voltage (DC 29V), rated input (75W), and duty cycle (10%, Max 2min ON/18min OFF).



Image: Detailed view of the linear actuator's power connections, including the 2-pin flat round power transformer connection and the 5-pin hand control plug connection.

SPECIFICATIONS

Specification	Value
Item Model Number	KDYJT013-105
Item Weight	4.29 pounds
Package Dimensions	25 x 7 x 4 inches
Stroke	250mm (9.84 inches)
Minimum Install Dimension	433mm (17.05 inches)
Max. Load	1000N
Speed	25mm/s
Rating Voltage	DC 29V
Rated Input	75W
Duty Cycle	10% (Max 2 minutes ON / 18 minutes OFF)
Power Connection	2 Pin Flat Round
Hand Control Connection	5 Pin

SETUP AND INSTALLATION

Follow these steps to replace your existing linear actuator. Ensure the recliner is unplugged from the power source before beginning.

- Power Disconnection:** Unplug the recliner from the wall outlet to ensure no power is supplied to the motor.
- Identify Existing Actuator:** Locate the current linear actuator under your recliner. Note its mounting points and electrical connections.
- Verify Compatibility:** Check the label on your existing actuator. This replacement motor is compatible with Kaidi Model KDYJT013-105 and KDYJT006-20. Ensure the stroke and minimum installation dimensions match your requirements.
- Disconnect Wires:** Carefully disconnect the 2-pin power transformer connection and the 5-pin hand control plug from the old actuator.
- Remove Old Actuator:** Detach the old actuator from its mounting brackets. This typically involves removing pins or bolts.
- Install New Actuator:** Position the new KDYJT013-105 actuator in the same location as the old one. Secure it using the existing mounting hardware or the provided screw accessories.
- Connect Wires:** Connect the 2-pin flat round power transformer plug and the 5-pin hand control plug to the new actuator. Ensure connections are firm and correctly oriented.
- Test Functionality:** Plug the recliner back into the wall outlet. Carefully test the recliner's functions using the hand control to ensure the actuator operates smoothly and correctly.



Image: Diagram illustrating the linear actuator's stroke of 250mm (9.84 inches) and minimum installation dimension of 433mm (17.05 inches).



Image: The linear actuator shown with the accompanying screw accessories for secure installation.

OPERATING INSTRUCTIONS

Once installed, the linear actuator operates in conjunction with your recliner's hand control.

- **Recline/Extend:** Use the designated buttons on your recliner's hand control to extend or retract the linear actuator. This action will move the chair into the desired recline or upright position.
- **Stop:** Release the button on the hand control to stop the actuator at any point during its travel.
- **Duty Cycle:** Adhere to the specified duty cycle of 10% (Maximum 2 minutes ON / 18 minutes OFF). Avoid continuous operation for extended periods to prevent overheating and ensure the longevity of the motor.

MAINTENANCE

The KDYJT013-105 linear actuator is designed for low maintenance. Regular checks can help ensure optimal performance.

- **Regular Inspection:** Periodically inspect the actuator, its mounting points, and all electrical connections for any signs of wear, damage, or loose wiring.
- **Cleaning:** Keep the actuator free from dust and debris. Wipe the exterior with a dry, soft cloth. Do not use liquid cleaners directly on the motor or electrical components.
- **Lubrication:** The internal components are pre-lubricated and generally do not require additional lubrication during the product's lifespan.
- **Avoid Obstructions:** Ensure no objects obstruct the actuator's movement path during operation. Clear any potential impediments immediately.

TROUBLESHOOTING

If you encounter issues with your linear actuator, refer to the table below for common problems and solutions.

Problem	Possible Cause	Solution
Actuator does not move	No power supply	Check if the recliner is securely plugged into a functional wall outlet.
Actuator does not move	Loose or incorrect wiring	Ensure the 2-pin power and 5-pin hand control connections are securely attached and correctly oriented to the actuator.
Actuator moves intermittently or stops unexpectedly	Overheating due to prolonged use	Allow the motor to cool down. Adhere to the 10% duty cycle (Max 2 minutes ON / 18 minutes OFF) to prevent overheating.
Actuator makes unusual noises	Obstruction in movement path or internal issue	Check for any physical obstructions preventing smooth movement. If noises persist, discontinue use and contact customer support.
Actuator does not fit the recliner	Incorrect model or dimensions	Verify that the model number (KDYJT013-105 or KDYJT006-20) and compare the stroke and minimum installation dimensions with your original part before purchase and installation.

WARRANTY AND SUPPORT

For any issues not covered in this manual, or for warranty inquiries, please contact Kariwust customer support.

Contact Information: Refer to your purchase documentation or the Kariwust store page on Amazon for current support contact details.

Transparency Verification: Each Kariwust item has a unique code that can be verified before shipping, ensuring product authenticity.