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> Kariwust Linear Actuator KDPT007-141 Power Recliner Motor Replacement Instruction Manual

## Kariwust KDPT007-141

# Kariwust Linear Actuator KDPT007-141 Instruction Manual

Power Recliner and Lift Chair Motor Replacement

## 1. INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of the Kariwust Linear Actuator, Model KDPT007-141. This product is designed as a replacement motor for power recliners and lift chairs. Please read these instructions thoroughly before installation and use to ensure proper function and safety.



Figure 1: The Kariwust Linear Actuator KDPT007-141, illustrating its application in a power recliner.

## 2. SAFETY INFORMATION

- **Maximum Load:** The actuator is designed for a maximum load of 1500N (approximately 337 pounds). Do not exceed this weight capacity to prevent damage or injury.
- **Power Supply:** Use only the specified KD Power Supply. Incorrect power sources can damage the unit or pose a safety risk.
- **Duty Cycle:** Observe the duty cycle of 2 minutes ON and 18 minutes OFF (10%). Continuous operation beyond this limit can lead to overheating and premature failure.
- **Professional Installation:** If you are unsure about any step of the installation process, consult a qualified technician.
- **Disconnect Power:** Always disconnect the power supply from the recliner before performing any installation, maintenance, or troubleshooting.

## 3. PRODUCT OVERVIEW

The KDPT007-141 is a linear actuator designed for smooth and reliable movement in power recliners and lift chairs. It features a robust motor and a precise stroke mechanism.



Figure 2: Product label displaying model number KDPT007-141, retracted length, max load, speed, stroke, and serial number.

### Connections:

- **Power Transformer Connection:** 2-pin flat round connector.
- **Hand Control Plug Connection:** 5-pin connector.



Figure 3: Detailed view of the 2-pin power transformer connection and the 5-pin hand control plug.

## 4. INSTALLATION

Before beginning installation, ensure the replacement actuator matches your original unit's model number (KDPT007-141) and connector types (2-pin power, 5-pin hand control).

1. **Disconnect Power:** Unplug the recliner from the wall outlet to prevent electrical shock.
2. **Locate Existing Actuator:** Identify the current linear actuator under your recliner or lift chair.
3. **Disconnect Wires:** Carefully disconnect the power and hand control wires from the existing actuator. Note their orientation if necessary.
4. **Remove Old Actuator:** Unbolt or unclip the old actuator from its mounting points on the chair frame. Keep any hardware for reuse.
5. **Install New Actuator:** Position the new KDPT007-141 actuator in the same location as the old one. Secure it using the original hardware. Ensure it is firmly attached.

- 6. 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 secure.
- 7. Test Functionality:** Plug the recliner back into the wall outlet. Carefully test the recliner's movement using the hand control. Observe for smooth operation and ensure no wires are pinched.

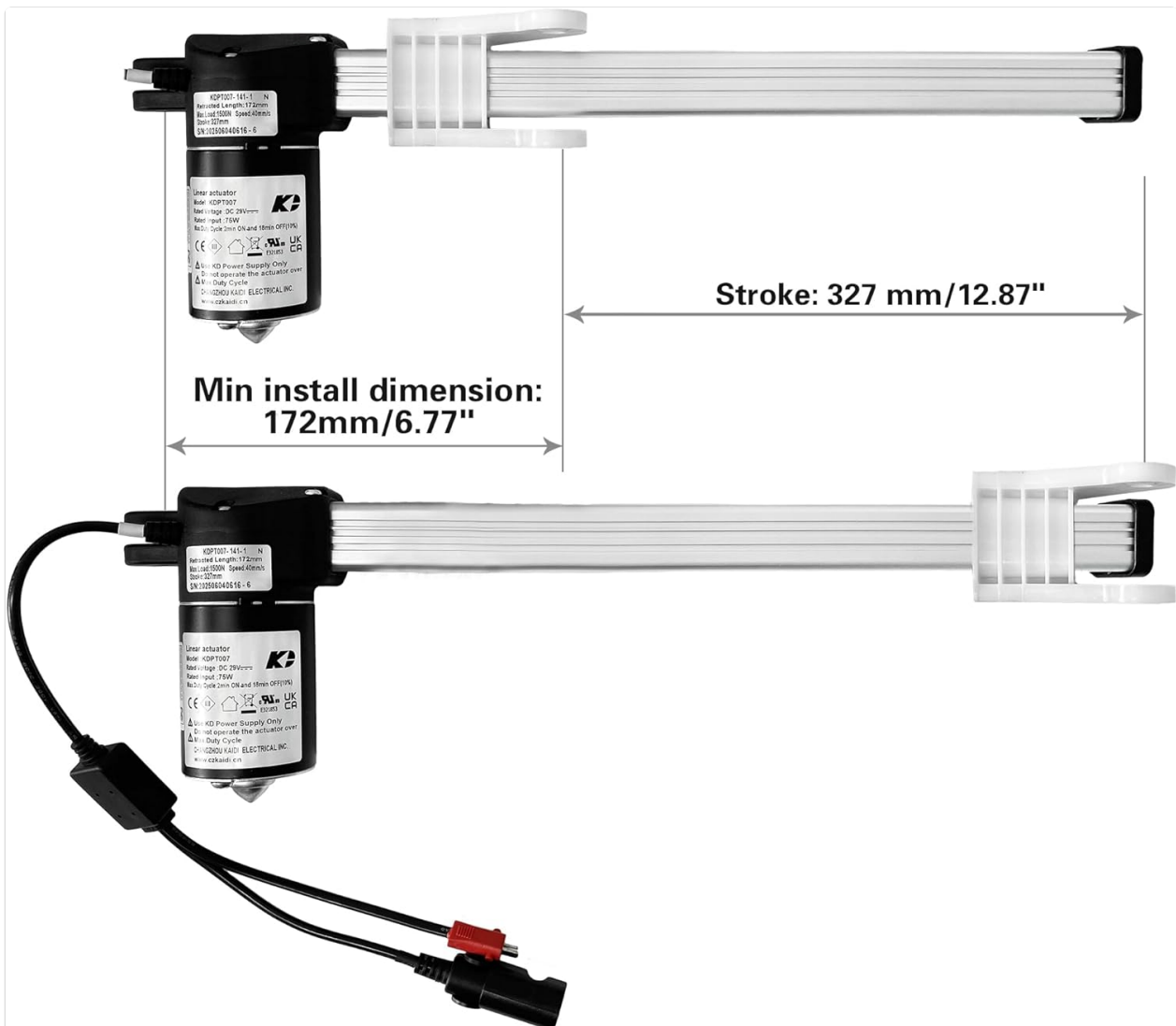


Figure 4: Key dimensions for installation, including stroke and minimum install dimension.

## 5. OPERATION

Once installed, the linear actuator operates in conjunction with your recliner's existing hand control. Pressing the appropriate buttons on the hand control will extend or retract the actuator, moving the chair into the desired position (reclined, upright, or lift assist).

- Ensure the chair is on a stable, level surface.
- Avoid placing objects in the path of the moving parts of the recliner.
- Do not operate the recliner if any part is damaged or if the actuator is making unusual noises.

## 6. MAINTENANCE

The Kariwust Linear Actuator KDPT007-141 requires minimal maintenance.

- **Cleaning:** Wipe the exterior of the actuator with a clean, damp cloth as needed. Do not use harsh

chemicals or abrasive cleaners.

- **Inspection:** Periodically inspect the actuator and its connections for any signs of wear, damage, or loose connections.
- **Lubrication:** The internal components are pre-lubricated and do not require additional lubrication.

## 7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Actuator does not move	No power supply Loose connections Incorrect model/pin configuration Faulty hand control	Check if the recliner is plugged in. Ensure all cables are securely connected. Verify the actuator model (KDPT007-141) and ensure the 2-pin power and 5-pin hand control plugs match your system. A 6-pin plug will not be compatible. Test the hand control if possible, or try a known working one.
Actuator moves slowly or with difficulty	Overload Friction in chair mechanism Low voltage	Reduce the load on the chair (ensure it's within 1500N). Inspect the chair's moving parts for obstructions or excessive friction. Check power supply voltage.
Actuator makes unusual noises	Internal damage Misalignment	Discontinue use and contact support. Do not attempt to repair internal components. Check if the actuator is properly aligned and mounted.
Actuator stops working after short use	Overheating (duty cycle exceeded)	Allow the actuator to cool down. Observe the 2 minutes ON / 18 minutes OFF duty cycle.

## 8. SPECIFICATIONS

Feature	Specification
Model	KDPT007-141
Brand	Kariwust (OEM Kaidi)
Rated Voltage	DC 29V
Rated Input	75W
Max. Load	1500N (approx. 337 lbs)
Speed	40mm/s
Stroke	327mm / 12.87 inches

Feature	Specification
Minimum Install Dimension	172mm / 6.77 inches
Duty Cycle	2 min ON / 18 min OFF (10%)
Power Connection	2 Pin Flat Round
Hand Control Connection	5 Pin
Item Weight	4.34 pounds
Package Dimensions	24.7 x 6.8 x 3.8 inches

## 9. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the documentation provided with your purchase or contact the seller directly. Ensure you have your product model number (KDPT007-141) and purchase details available when seeking assistance.

Protection plans may be available for extended coverage. Please check your purchase options for details.