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> Fruhdi QDPT-01-002 Linear Actuator User Manual for Power Recliners and Lift Chairs

Fruhdi QDPT-01-002

Fruhdi QDPT-01-002 Linear Actuator User Manual

For Power Recliner and Lift Chair Applications

1. INTRODUCTION

This manual provides essential instructions for the installation, operation, and maintenance of the Fruhdi Model QDPT-01-002 Linear Actuator. This component is designed as a replacement part for power recliners, electric sofas, and lift chairs. Please read this manual thoroughly before proceeding with installation or operation to ensure safe and correct usage.

2. SAFETY INFORMATION

Important Safety Precautions:

- Always disconnect power to the furniture before attempting any installation, maintenance, or troubleshooting.
- Verify that the product and power supply are compatible and in good condition before use.
- The maximum weight capacity for furniture utilizing this actuator is approximately 224.8 pounds (1000N Max Load). Do not exceed this limit.
- Ensure all connections are secure and correctly wired to prevent electrical hazards.
- Keep hands and loose clothing clear of moving parts during operation.
- This device is intended for indoor use only.

3. PACKAGE CONTENTS

The package for the Fruhdi QDPT-01-002 Linear Actuator typically includes:

- Fruhdi QDPT-01-002 Linear Actuator
- Assembly Hardware (if required for specific mounting)
- User Manual (this document)

4. SPECIFICATIONS

The Fruhdi Model QDPT-01-002 Linear Actuator features the following technical specifications:

Specification	Value
Model	QDPT-01-002
Rated Voltage	DC 29V
Max. Duty Cycle	2 minutes ON, 18 minutes OFF
Max. Load	1000N (approximately 224.8 lbs)
Stroke	333mm (13.11 inches)
Minimum Install Dimension	156mm (6.14 inches)
Power Transformer Connection	2 Pin Flat Round
Hand Control Plug Connection	5 Pin
Item Weight	5.69 pounds
Manufacturer	Qidian



Image: Close-up of the product label, detailing the model number QDPT-01-002, rated voltage DC 29V, max duty cycle 2min ON and 18min OFF, max load 1000N, and stroke 333mm.

5. SETUP AND INSTALLATION

This linear actuator is designed as a direct replacement for existing QDPT-01-002 models in power recliners and lift chairs. Ensure the original motor model matches this unit before proceeding.

1. **Disconnect Power:** Before beginning any work, unplug the furniture from the electrical outlet to prevent electric shock.
2. **Access Existing Actuator:** Carefully position the furniture to gain access to the existing linear actuator. This may involve tilting the chair or removing fabric covers.
3. **Identify Connections:** Note the connections of the existing actuator. This unit uses a 2-pin flat round connector for the power transformer and a 5-pin connector for the hand control.
4. **Remove Old Actuator:** Disconnect the power and hand control cables from the old actuator. Then, unbolt or unclip the old actuator from its mounting points on the furniture frame.

5. **Install New Actuator:** Position the Fruhdi QDPT-01-002 actuator in the same location as the old unit. Secure it using the appropriate assembly hardware. Ensure it is firmly attached and aligned correctly.
6. **Connect Cables:**
 - Connect the 2-pin flat round plug from the power transformer to the corresponding port on the new actuator.
 - Connect the 5-pin plug from the hand control to its designated port on the new actuator.
7. **Test Functionality:** Once all connections are secure, plug the furniture back into the electrical outlet. Carefully test the recliner's functions using the hand control to ensure the actuator extends and retracts smoothly and correctly.
8. **Final Assembly:** If the actuator functions correctly, reassemble any removed covers or panels.



Image: The Fruhdi QDPT-01-002 linear actuator, illustrating its main components including the motor, extension rod, and the attached power and control cables with their respective connectors.

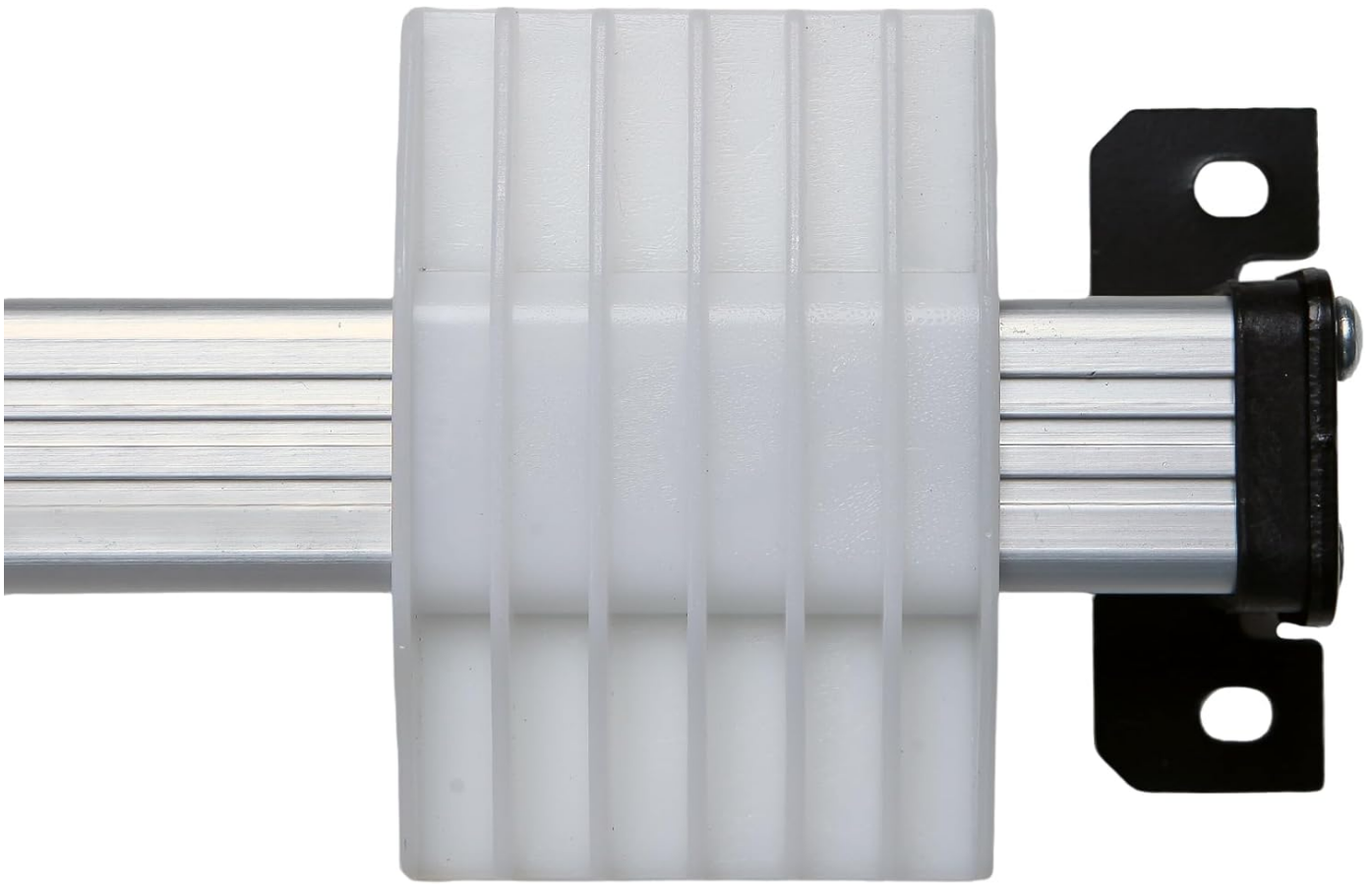


Image: An end view of the linear actuator, highlighting the mounting bracket and the white plastic component that slides along the rod, crucial for installation.

6. OPERATION

Once correctly installed, the Fruhdi QDPT-01-002 Linear Actuator operates in conjunction with your furniture's existing hand control unit. The actuator converts rotational motion from its motor into linear push/pull motion, enabling the reclining or lifting functions of your furniture.

- Pressing the appropriate button on your hand control will send a signal to the actuator, causing it to extend or retract.
- Release the button to stop the actuator at the desired position.
- Observe the duty cycle: The actuator is designed for intermittent use (2 minutes ON, 18 minutes OFF). Continuous operation beyond this limit can lead to overheating and damage.

7. MAINTENANCE

Proper maintenance ensures the longevity and reliable performance of your linear actuator.

- **Cleaning:** Wipe clean the exterior of the actuator with a dry or slightly damp cloth. Avoid using harsh chemicals or abrasive cleaners.
- **Inspection:** Periodically inspect the actuator and its connections for any signs of wear, damage, or loose wiring.
- **Lubrication:** The internal components are typically pre-lubricated and sealed. Do not attempt to lubricate internal parts unless specifically instructed by the manufacturer.
- **Environmental Conditions:** Ensure the actuator is used in a dry, indoor environment. Avoid exposure to moisture, extreme temperatures, or excessive dust.

8. TROUBLESHOOTING

If your recliner or lift chair is not functioning correctly after installing the new actuator, consider the following troubleshooting steps:

1. No Movement:

- Ensure the furniture is securely plugged into a working electrical outlet.
- Check all cable connections (power transformer to actuator, hand control to actuator) to ensure they are firmly seated.
- Verify the power supply unit (transformer) is receiving power and functioning correctly. A faulty power supply is a common cause of actuator failure.
- Inspect the hand control for damage or loose wiring.

2. Intermittent Movement:

- Check for loose connections in the power or control cables.
- Ensure the actuator is not exceeding its duty cycle (2 minutes ON, 18 minutes OFF). Allow it to cool down if it has been operated continuously.

3. Unusual Noises:

- Listen for the source of the noise. It could indicate a mechanical obstruction, a loose mounting bolt, or an internal issue with the actuator.
- If the noise persists and is internal to the actuator, discontinue use and contact support.

4. Actuator Overheating:

- This is often due to exceeding the duty cycle or an excessive load. Reduce usage frequency and ensure the furniture's weight does not exceed the maximum load capacity.

Before ordering a replacement motor, always troubleshoot the switch/remote or power supply first. These components are often the source of issues, not the actuator itself.

9. WARRANTY AND SUPPORT

For warranty information or technical support regarding your Fruhdi QDPT-01-002 Linear Actuator, please contact the manufacturer or your point of purchase. Ensure you have your model number (QDPT-01-002) and purchase details available when contacting support.

Manufacturer: Qidian

Brand: Fruhdi

