

FR N500092634

FR Ciar Linear Actuator Motor User Manual

Model: N500092634 | Brand: FR

1. INTRODUCTION

This manual provides essential information for the safe and effective use of your FR Ciar Linear Actuator Motor, model N500092634. This motor is designed for use in powered recliners and lift chairs, facilitating the opening and closing mechanism. Please read this manual thoroughly before installation and operation to ensure proper function and longevity of the product.

2. SAFETY INFORMATION

Important Safety Warnings:

WARNING: This chair has a maximum weight limit of 225 lbs. Always assemble the chair according to the instructions provided to avoid injury.

- Always disconnect power before performing any maintenance or installation procedures.
- Ensure all connections are secure and correct before applying power.
- Do not attempt to modify the actuator or its components.
- Keep hands and loose clothing clear of moving parts during operation.
- If the actuator makes unusual noises or operates erratically, disconnect power immediately and consult the troubleshooting section or contact support.

3. PRODUCT OVERVIEW

The FR Ciar Linear Actuator Motor N500092634 is a replacement motor for powered recliners and lift chairs. It is designed to replace motors in various compatible recliners, including those by Natuzzi, that utilize this style of linear actuator. It features a telephone-cable style controller cable and a locking 2-pin power supply. An adapter may be required for compatibility with other systems. The actuator provides a travel distance of approximately 304mm.

Key Features:

- Ciar Motor ART: N500092634
- Input: 24-30Vdc 3.7A
- Duty Cycle CE: 2 minutes ON / 5 minutes OFF
- Duty Cycle UL: 1 minute ON / 8 minutes OFF
- Max Load: 1000N

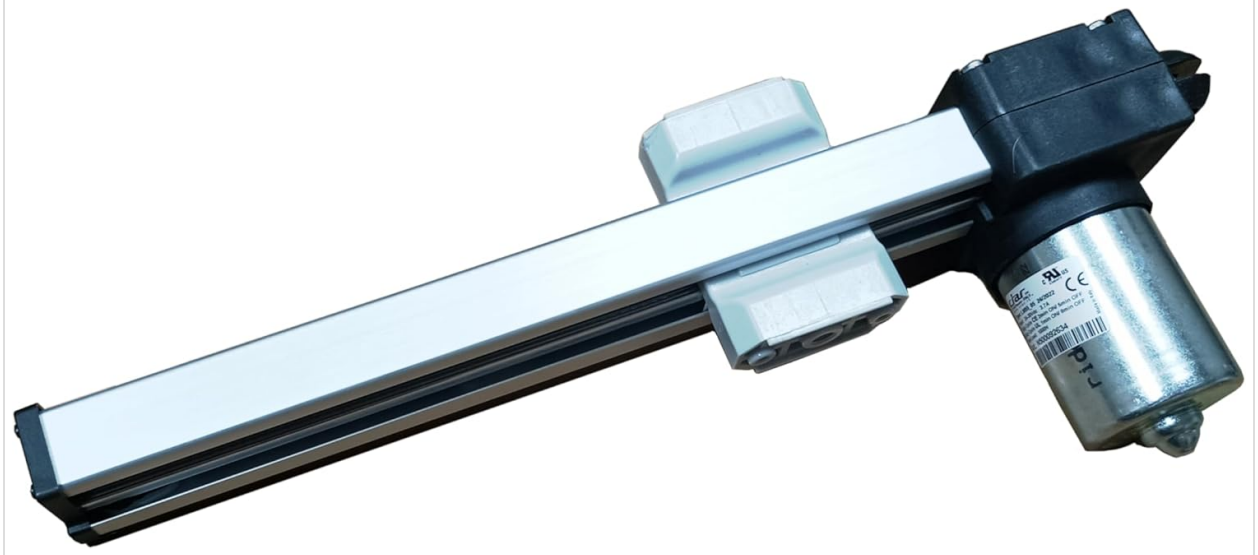


Figure 3.1: Top-down view of the FR Ciar Linear Actuator Motor, showing the main body and motor housing.

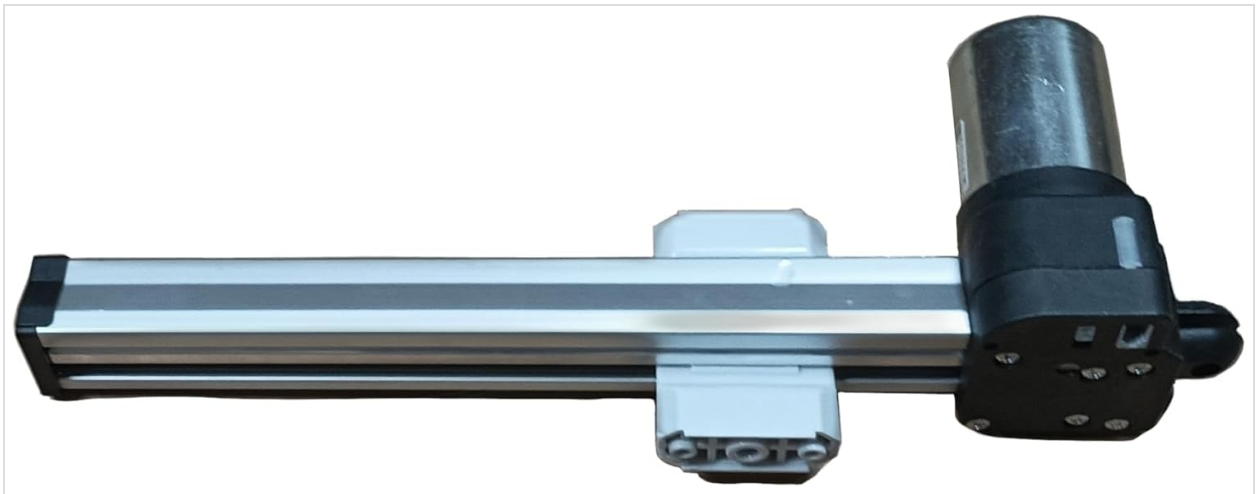


Figure 3.2: Side view of the FR Ciar Linear Actuator Motor, highlighting its compact design.



Figure 3.3: Extended view of the FR Ciar Linear Actuator Motor, showing the full travel length.

4. SETUP AND INSTALLATION

Installation of the linear actuator motor typically involves replacing an existing unit. Due to the electrical and mechanical nature of this component, professional installation is highly recommended. If you choose to install it yourself, proceed with caution and ensure all safety precautions are followed.

Installation Steps (General Guidance):

1. **Disconnect Power:** Ensure the recliner or lift chair is unplugged from the wall outlet before beginning any work.
2. **Access the Old Actuator:** Carefully position the chair to gain access to the existing linear actuator. This may involve tilting the chair or removing fabric covers.
3. **Disconnect Old Actuator:** Disconnect the power cable and controller cable from the old actuator. Note the type of connections (e.g., telephone-cable style controller, 2-pin power supply).
4. **Remove Old Actuator:** Unbolt or unclip the old actuator from its mounting points on the chair frame.
5. **Install New Actuator:** Mount the new FR Ciar N500092634 actuator in the same position as the old one, securing it with appropriate fasteners.
6. **Connect Cables:** Connect the telephone-cable style controller cable and the locking 2-pin power supply cable to the new actuator. Ensure connections are firm. If your system uses different connectors, an adapter may be necessary.
7. **Test Functionality:** Before fully reassembling the chair, plug it back in and perform a brief test to ensure the actuator extends and retracts smoothly using the chair's controls.
8. **Reassemble Chair:** Once confirmed operational, reassemble any removed covers or components.

5. OPERATION

The FR Ciar Linear Actuator Motor operates in conjunction with your recliner or lift chair's control mechanism (e.g., hand remote, integrated buttons). When activated, the motor drives a screw mechanism that extends or retracts the internal rod, thereby moving the chair's reclining or lifting components.

Operating Instructions:

- Ensure the chair is connected to a suitable power source.
- Use the chair's designated control panel or remote to initiate movement.
- Pressing the appropriate button will cause the actuator to extend or retract, moving the chair into the desired position.
- Release the button to stop the movement at any point.
- Adhere to the specified duty cycles (CE: 2 min ON/5 min OFF; UL: 1 min ON/8 min OFF) to prevent overheating and prolong the motor's life. Avoid continuous operation for extended periods.

6. MAINTENANCE

Regular maintenance can help ensure the longevity and smooth operation of your linear actuator motor.

Maintenance Tips:

- **Cleaning:** Periodically wipe down the exterior of the actuator with a dry, soft cloth to remove dust and debris. Do not use liquid cleaners directly on the motor or electrical components.
- **Inspection:** Regularly inspect the actuator for any signs of wear, damage, or loose connections. Check the cables for fraying or kinks.
- **Lubrication:** The internal components of the actuator 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 an indoor environment, away from excessive moisture, dust, or extreme temperatures.

7. TROUBLESHOOTING

If you encounter issues with your linear actuator motor, refer to the following common troubleshooting steps:

- **Motor Not Moving:**
 - Check if the chair is properly plugged into a working power outlet.
 - Verify all cable connections (power and controller) are secure and not damaged.
 - Ensure the power supply unit (if external) is functioning correctly.
 - Check for any obstructions preventing the chair mechanism from moving.
- **Unusual Noises:**
 - A grinding or squeaking noise may indicate an obstruction or a mechanical issue. Disconnect power and inspect the mechanism.
 - If the noise persists after checking for obstructions, contact customer support.
- **Intermittent Operation:**
 - This could be due to loose connections or an overheating motor. Allow the motor to cool down if it has been operating continuously.
 - Inspect cables for any damage that might cause intermittent contact.
- **Actuator Overheating:**
 - Ensure you are adhering to the specified duty cycles. Continuous operation beyond these limits can cause overheating.
 - Allow the motor to cool completely before resuming operation.

If these steps do not resolve the issue, please contact customer support for further assistance.

8. SPECIFICATIONS

Specification	Value
Model Number	N500092634
Manufacturer	CIAR
Brand	FR
Input Voltage	24-30Vdc
Input Current	3.7A
Duty Cycle (CE)	2 min ON / 5 min OFF
Duty Cycle (UL)	1 min ON / 8 min OFF
Max Load	1000N
Travel Distance (Approx.)	304mm

Specification	Value
Product Dimensions	6 x 6 x 26 inches
Item Weight	4.89 pounds
Color	Black
UPC	753577031563

9. WARRANTY INFORMATION

Specific warranty details for the FR Ciar Linear Actuator Motor N500092634 are not provided in this manual. For information regarding warranty coverage, terms, and conditions, please refer to the product packaging, the original purchase documentation, or contact the seller or manufacturer directly.

10. CUSTOMER SUPPORT

If you require further assistance, have questions not covered in this manual, or need to report a problem with your FR Ciar Linear Actuator Motor, please contact the seller or manufacturer's customer support. Have your product model number (N500092634) and purchase details ready when contacting support.

For general inquiries, you may visit the FR Store on Amazon:[FR Furniture Rehab Store](#)