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› MineCtrl RMT Linear Actuator R812102132226 Power Recliner Lift Chair Motor Replacement Manual

## MineCtrl R812102132226

# MineCtrl RMT Linear Actuator R812102132226 Instruction Manual

For Power Recliner and Lift Chair Motor Replacement



## 1. INTRODUCTION

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This manual provides essential instructions for the installation, operation, and maintenance of the MineCtrl RMT Linear Actuator Model R812102132226. This linear actuator is designed as a replacement part for various power recliners and lift chairs, offering smooth and precise movement. Please read this manual thoroughly before installation and use to ensure proper function and safety.

## 2. SAFETY INFORMATION

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### Important Safety Warnings:

- Ensure compatibility with your furniture brand before installation to prevent damage or injury.
- Do not exceed the recommended maximum weight capacity of 330.7 pounds (1500N) to prevent damage or injury.
- Always disconnect power to the furniture before attempting any installation, removal, or maintenance.
- Keep hands and loose clothing clear of moving parts during operation.
- If you are unsure about any step, consult a qualified technician.

## 3. PRODUCT OVERVIEW

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The MineCtrl RMT Linear Actuator R812102132226 is a robust component designed for durability and reliable performance in power reclining furniture. It features a compact design with specific connection types for easy integration.



**Figure 1:** Overall view of the MineCtrl RMT Linear Actuator R812102132226, showing the main body, extension rod, and attached power and hand control cables.



**Figure 2:** Detailed view of the product label on the actuator, displaying model number R8121, part number R812102132226, voltage (24V), current (2.1A), duty cycle (1min ON/8min OFF), production date, and various certifications (CE, FC, RoHS, UL, EMC).

## 4. SPECIFICATIONS

Feature	Specification
Model Number	R812102132226
Brand	MineCtrl (Manufacturer: RMT)
Stroke	226mm (8.90 inches)
Minimum Install Dimension	132mm (5.20 inches)
Speed	20mm/s
Maximum Load	1500N (approximately 330.7 pounds)
Power Connection	2 Pin Flat Round Transformer Connection
Hand Control Connection	5 Pin Plug Connection
Material	ABS and Aluminum
Certifications	UL, EMC, CP65 Certified
Net Weight	Approx. 1.80kg (4.0 pounds)

## 5. SETUP AND INSTALLATION

This linear actuator is designed for straightforward replacement. Follow these steps carefully:

### 1. Preparation:

- Ensure the power recliner or lift chair is unplugged from the wall outlet.
- Carefully turn the chair on its side or back to access the existing actuator.
- Identify the existing actuator and its connections. Verify that the replacement actuator (R812102132226) matches the specifications of your original unit, especially the stroke length and connection types.

### 2. Removal of Old Actuator:

- Disconnect the 2-pin flat round power transformer connection and the 5-pin hand control plug connection from the old actuator.
- Locate the pins or bolts securing the old actuator to the chair frame. Remove these pins/bolts to detach the old actuator. Keep these fasteners for the new installation.

### 3. Installation of New Actuator:



**Figure 3:** Bottom view of the actuator, illustrating the mounting plate and attachment points for securing it to the chair frame.

- Position the new MineCtrl RMT Linear Actuator R812102132226 into the chair frame, aligning the mounting points.
- Secure the actuator using the pins or bolts removed from the old unit. Ensure all connections are firm

and stable.

- Connect the 2-pin flat round power transformer cable to the corresponding port on the new actuator.
- Connect the 5-pin hand control plug to its designated port on the new actuator.



**Figure 4:** Close-up of the electrical connectors: a 2-pin flat round connector for the power transformer and a 5-pin plug for the hand control unit, ready for connection.

#### 4. Final Check:

- Double-check all connections to ensure they are secure.
- Ensure no wires are pinched or obstructing moving parts.

- Carefully return the chair to its upright position.

*Installation is typically quick and easy, often taking less than 5 minutes as reported by users.*

## 6. OPERATING INSTRUCTIONS

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Once the MineCtrl RMT Linear Actuator R812102132226 is correctly installed, the operation of your power recliner or lift chair will resume as normal.

1. **Power Connection:** Plug the chair's power cord into a standard electrical outlet.
2. **Hand Control:** Use the chair's original hand control unit to operate the reclining or lifting functions. The actuator will respond to the commands from the hand control, extending or retracting to adjust the chair's position.
3. **Smooth Movement:** The actuator is designed to provide smooth and precise movement. Avoid forcing the chair's mechanism manually, as this can damage the actuator or other components.

## 7. MAINTENANCE

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The MineCtrl RMT Linear Actuator R812102132226 is designed for minimal maintenance. However, periodic checks can help ensure its longevity and optimal performance.

- **Cleaning:** Wipe clean the exterior of the actuator with a dry or slightly damp cloth. Do not use harsh chemicals or abrasive cleaners. Ensure no liquids enter the motor housing or electrical connections.
- **Connection Check:** Periodically inspect all electrical connections (power and hand control) to ensure they are secure and free from damage.
- **Moving Parts:** Ensure that the actuator's moving parts are free from obstructions. Do not apply lubricants unless specifically instructed by the manufacturer, as this can attract dust and debris.
- **Duty Cycle:** Note the duty cycle of 1 minute ON / 8 minutes OFF. This means the actuator is designed for intermittent use. Continuous operation beyond this limit can lead to overheating and premature wear.

## 8. TROUBLESHOOTING

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

- **No Movement:**
  - **Check Power Supply:** Ensure the chair is securely plugged into a working electrical outlet. Verify that the power transformer is receiving power and is correctly connected to the actuator.
  - **Inspect Hand Control:** The hand control unit is a common point of failure. Before replacing the motor, it is recommended to troubleshoot the hand control and power supply. Ensure the 5-pin hand control plug is firmly connected to the actuator.
  - **Verify Connections:** Double-check all connections to the actuator (power and hand control) for looseness or incorrect insertion.
- **Intermittent Movement or Unusual Noises:**
  - **Obstructions:** Check for any obstructions preventing the chair mechanism or actuator from moving freely.
  - **Loose Fasteners:** Ensure the actuator is securely fastened to the chair frame. Loose pins or bolts can cause instability and noise.

- **Wiring Damage:** Inspect all wiring for any signs of pinching, fraying, or damage.
- **Actuator Overheating:**
  - Adhere to the specified duty cycle (1 minute ON / 8 minutes OFF). Excessive continuous use can lead to overheating. Allow the actuator to cool down if it feels warm to the touch.

If these steps do not resolve the issue, it may indicate a fault with the power supply, hand control, or the actuator itself. Contact customer support for further assistance.

## 9. WARRANTY AND SUPPORT

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The MineCtrl RMT Linear Actuator R812102132226 is manufactured to high-quality standards and undergoes multiple tests to ensure optimal performance and durability. While specific warranty details are not provided in this document, please refer to your purchase documentation or contact MineCtrl customer support for warranty information.

For technical assistance, troubleshooting, or inquiries regarding your MineCtrl product, please visit the official MineCtrl store or contact their customer service department. You can find more information and contact details on the [MineCtrl Amazon Store](#).

