

## Fruhdi R8112

# Fruhdi RMT Power Recliner Motor Actuator Replacement Manual

Model: R8112

## 1. INTRODUCTION

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This manual provides instructions for the installation, operation, and maintenance of the Fruhdi RMT Power Recliner Motor Actuator, Model R8112. This motor is designed as a replacement part for electric sofas, massage chairs, and other lift chairs. It is compatible with RMT motor models R811A32375198 and R811242375198. Please read this manual thoroughly before proceeding with installation or operation.

## 2. SAFETY INFORMATION

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### Important Safety Instructions:

- Always unplug the power supply to the furniture before handling the motor or performing any installation or maintenance.
- Do not attempt to install or operate the motor if you are unfamiliar with electrical components or mechanical systems. Seek professional assistance if needed.
- Ensure the motor is securely fastened to the chair frame according to the original design.
- Verify that the chair is stable and all connections are secure before restoring power and using the furniture.
- Do not exceed the maximum weight capacity of the chair as specified by the furniture manufacturer.
- Always follow the furniture manufacturer's instructions for safe operation and maintenance.

## 3. PRODUCT OVERVIEW

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The Fruhdi RMT Power Recliner Motor Actuator (Model R8112) is a linear actuator designed to provide smooth and reliable movement for reclining furniture. It features specific connection types for power and hand control.



Figure 3.1: Overall view of the Fruhdi RMT Power Recliner Motor Actuator, Model R8112, including the motor body, linear shaft, power cable, hand control cable, and two mounting pins with retaining clips.



Figure 3.2: Close-up view of the motor's identification label, displaying "MODEL: R8112" and other technical data such as voltage, current, and duty cycle. This label is crucial for verifying compatibility.



Figure 3.3: Comparison of an updated RMT motor (top) and an older RMT motor (bottom), both labeled R8112. Note any subtle differences in design or connectors that may exist between revisions.

### Key Features:

- **Model:** R8112
- **Stroke:** 198mm (7.80 inches)
- **Minimum Install Size:** 375mm (14.76 inches)
- **Power Connection:** 2-Pin Flat Round Connector for power transformer
- **Hand Control Connection:** 5-Pin Plug for hand control remote
- **Compatibility:** Replaces RMT Motor Models R811A32375198 and R811242375198. *Note: Not compatible with RMT Model R811212500323.*

## 4. INSTALLATION

Before beginning installation, ensure you have identified the correct replacement motor by checking the label on your existing motor. Verify that the power supply and hand control are functioning correctly before replacing the motor itself.

### Installation Steps:

1. **Disconnect Power:** Unplug the recliner or lift chair from the main power outlet.
2. **Access Motor:** Carefully position the furniture to access the existing motor. This may involve tilting the chair or removing a fabric cover.
3. **Disconnect Cables:** Disconnect the 2-pin flat round power transformer connection and the 5-pin hand control plug connection from the old motor.
4. **Remove Old Motor:** Detach the old motor from the chair frame. This typically involves removing pins or bolts that secure the motor to the frame and the reclining mechanism. Note the orientation and mounting points.
5. **Install New Motor:** Position the new Fruhdi RMT Model R8112 motor in the same location and orientation as the old motor. Ensure the minimum install size of 375mm (14.76 inches) and stroke of 198mm (7.80 inches) are compatible with your furniture's mechanism. Secure the motor to the chair frame using the provided pins or original hardware. Ensure it is firmly attached and does not wobble.
6. **Connect Cables:** Connect the 2-pin flat round power transformer cable to the corresponding port on the new motor. Connect the 5-pin hand control plug to its designated port. Ensure all connections are snug and secure.
7. **Test Functionality:** Before fully reassembling the furniture, plug the chair back into the power outlet. Carefully test the recliner's movement using the hand control to ensure the motor operates smoothly and correctly through its full range of motion.
8. **Final Assembly:** Once confirmed operational, reassemble any covers or components removed during installation.

*Note: If the chair does not operate correctly after installation, refer to the Troubleshooting section.*

## 5. OPERATION

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The Fruhdi RMT Power Recliner Motor Actuator operates in conjunction with your furniture's existing hand control remote and power supply. Once installed and connected, the motor will respond to commands from the hand control to extend or retract the linear shaft, thereby moving the reclining mechanism.

- Ensure the chair is plugged into a functional power outlet.
- Use the buttons on your hand control remote to initiate reclining or lifting actions.
- Release the button when the desired position is reached.
- Avoid forcing the mechanism if it encounters an obstruction.

## 6. MAINTENANCE

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The Fruhdi RMT Power Recliner Motor Actuator is designed for minimal maintenance. Regular care can help ensure its longevity and smooth operation.

- **Cleaning:** Periodically wipe the exterior of the motor and accessible parts of the linear shaft with a clean, dry cloth to remove dust and debris. Do not use abrasive cleaners or solvents.
- **Inspection:** Occasionally inspect the motor and its connections for any signs of wear, damage, or loose wiring. Ensure mounting pins and bolts remain secure.
- **Lubrication:** The internal components of the motor are factory-lubricated and generally do not require additional lubrication. If the linear shaft appears dry or sticky, a small amount of silicone-based lubricant can be applied to the exposed shaft, avoiding the motor housing.

## 7. TROUBLESHOOTING

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If your recliner or lift chair is not operating correctly after motor replacement, perform the following checks:

- **No Movement:**

- Ensure the chair is securely plugged into a live electrical outlet.
- Check all cable connections to the motor, power transformer, and hand control. Ensure they are fully inserted and secure.
- Verify that the power supply unit (transformer) is receiving power and functioning correctly. Some transformers have indicator lights.
- Test the hand control remote. If possible, try a known working remote or inspect the remote's cable for damage.

- **Intermittent Movement or Unusual Noises:**

- Inspect the motor's mounting points. Ensure it is securely fastened and not loose.
- Check for any obstructions in the reclining mechanism that might be impeding the motor's movement.
- Ensure the linear shaft is clean and moves freely.

- **Motor Overheating:**

- Avoid continuous operation for extended periods. Allow the motor to cool down between uses.
- Ensure there are no obstructions causing the motor to work harder than necessary.

If troubleshooting steps do not resolve the issue, it may indicate a fault with the motor, power supply, or hand control. Contact the manufacturer or a qualified technician for further assistance.

## 8. SPECIFICATIONS

Feature	Specification
Model Name	R8112
Stroke	198mm / 7.80 inches
Minimum Install Size	375mm / 14.76 inches
Power Connection	2 Pin Flat Round
Hand Control Connection	5 Pin Plug
Manufacturer	RMT
Item Weight	5.59 pounds
Package Dimensions	24.8 x 7 x 4.1 inches

## 9. WARRANTY AND SUPPORT

For warranty information or technical support regarding your Fruhdi RMT Power Recliner Motor Actuator, Model R8112, please contact the manufacturer, RMT, or the seller directly. Keep your purchase receipt as proof of purchase.

For general inquiries or to visit the brand store, you may refer to the [Fruhdi Store on Amazon](#).

