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Fromann 450427 MD140-02-L1-157-204

Fromann MD140-02-L1-157-204 Power Recliner Motor Actuator Replacement Kit User Manual

Model: 450427 MD140-02-L1-157-204

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1. SAFETY INFORMATION

Please read all safety instructions before installing or operating this product. Failure to follow these instructions may result in injury or product damage.

- **Maximum Weight Capacity:** Do not exceed the maximum weight capacity of 300 pounds for the recliner chair. Exceeding this limit can cause damage to the actuator and potential injury.
- **Proper Assembly:** Ensure proper assembly and secure fastening of all components to avoid injury during operation.
- **Electrical Safety:** Disconnect power before performing any installation, maintenance, or troubleshooting. Ensure all electrical connections are secure and free from damage.
- **Children and Pets:** Keep children and pets away from the recliner mechanism during operation to prevent entanglement or injury.
- **Liquid Exposure:** Avoid exposing the motor and electrical components to liquids.

2. PACKAGE CONTENTS

Verify that all components listed below are present in your package:

- Fromann MD140-02-L1-157-204 Motor Actuator
- Power Supply Transformer
- AC Power Cord
- DC Power Cord
- 2-Button Round Hand Control Handset
- Mounting Hardware (bolts, pin, cotter key - may vary by kit)



Image: Power supply transformer with AC and DC cables.



Image: 2-button round hand control handset with coiled cable and 5-pin connector.

3. PRODUCT OVERVIEW

The Frommann MD140-02-L1-157-204 is a DC motor actuator replacement kit designed for power recliners and lift chairs. It provides the necessary linear motion to adjust the chair's position, enabling reclining and lifting functions.

- **DC Motor:** Operates on direct current for smooth and reliable movement.
- **Compact Design:** Features small mounting dimensions for easy integration into various recliner frames.
- **Hand Control:** Includes a 2-button round hand control for intuitive operation.
- **Power Supply:** Comes with a transformer kit to convert AC power to the required DC voltage.



Image: Side view of the motor actuator, showing the motor housing and the extending rod.



Image: Close-up of the motor actuator label, displaying model number MD140-02-L1-157-204, input voltage, duty cycle, and maximum load.

The part number 450427 is highlighted.

For more information, visit www.limoss.de.

4. SETUP & INSTALLATION

This kit is designed for replacement of an existing motor actuator. While self-assembly is required, detailed instructions are not provided with the product. Basic mechanical skills and tools (e.g., ratchet, needle-nose pliers) are recommended. Always ensure the recliner is unplugged from the power outlet before beginning

installation.

4.1 Pre-Installation Steps

1. **Disconnect Power:** Unplug the recliner from the wall outlet.
2. **Position Chair:** Carefully turn the recliner over or tilt it to access the underside where the motor actuator is located.
3. **Identify Components:** Locate the existing motor actuator, power supply, and hand control connections.
4. **Measure and Compare:** Before removal, compare the dimensions of the new actuator with the old one to ensure compatibility. Pay attention to the minimum install size and stroke length.



Image: Diagram showing the minimum install size (6.18 inches) and stroke length (8.03 inches) of the motor actuator.

4.2 Removal of Old Actuator

1. **Disconnect Wires:** Unplug the hand control cable and the DC power cable from the existing motor actuator.
2. **Remove Mounting Pins:** Locate the pins or bolts securing the actuator to the recliner frame at both ends. Use appropriate tools to remove them.
3. **Extract Actuator:** Carefully remove the old motor actuator from the recliner frame.

4.3 Installation of New Actuator

1. **Position New Actuator:** Place the new Fromann MD140-02-L1-157-204 motor actuator into the recliner frame, aligning the mounting holes.
2. **Secure with Hardware:** Insert the provided pins or bolts through the mounting holes and secure them with cotter keys or nuts. Ensure they are tight but allow for smooth pivot.
3. **Connect Hand Control:** Plug the 5-pin connector of the new 2-button round hand control into the corresponding port on the motor actuator.
4. **Connect Power Supply:** Connect the DC power cable from the power supply transformer to the motor actuator. Then, plug the AC power cord into the power supply transformer and finally into a wall outlet.
5. **Test Functionality:** Before returning the chair to its upright position, carefully test the recliner's movement using the hand control to ensure proper installation and function.

5. OPERATING INSTRUCTIONS

The Fromann recliner motor actuator is operated using the provided 2-button round hand control.

- **Recline/Extend:** Press and hold the button marked with an arrow pointing outwards (or typically the top button) to extend the footrest and recline the chair. Release the button when the desired position is reached.
- **Upright/Retract:** Press and hold the button marked with an arrow pointing inwards (or typically the bottom button) to retract the footrest and return the chair to an upright position. Release the button when the desired position is reached.

The motor is designed for intermittent use. The duty cycle is typically 2 minutes ON, 18 minutes OFF. Avoid continuous operation for extended periods to prevent overheating and damage.

6. MAINTENANCE

Regular maintenance helps ensure the longevity and proper function of your Fromann motor actuator kit.

- **Cleaning:** Wipe clean the exterior of the motor actuator and hand control with a dry or slightly damp cloth. Do not use abrasive cleaners or immerse components in water.
- **Inspections:** Periodically inspect all cables for fraying or damage. Check mounting points for tightness and ensure no obstructions hinder the actuator's movement.
- **Lubrication:** The motor actuator is generally maintenance-free regarding internal lubrication. Do not attempt to lubricate internal components unless specifically instructed by the manufacturer.

7. TROUBLESHOOTING

If your recliner is not functioning correctly, refer to the following troubleshooting guide:

Problem	Possible Cause	Solution
Motor does not operate (no movement, no sound).	<ul style="list-style-type: none">◦ No power to the unit.◦ Loose electrical connections.◦ Faulty hand control.◦ Damaged motor actuator.	<ul style="list-style-type: none">◦ Ensure the power cord is securely plugged into the wall outlet and the power supply. Check if the power supply's indicator light is on.◦ Verify all cables (hand control to motor, power supply to motor) are firmly connected.◦ If possible, test with a known working hand control.◦ If power is present and connections are secure, the motor actuator may be faulty and require replacement.
Motor operates but chair does not move or moves slowly.	<ul style="list-style-type: none">◦ Obstruction in the recliner mechanism.◦ Actuator mounting pins are loose or damaged.◦ Overload (exceeding weight capacity).◦ Worn or damaged actuator rod.	<ul style="list-style-type: none">◦ Inspect the underside of the chair for any objects blocking the mechanism.◦ Check and tighten all mounting hardware.◦ Ensure the user's weight does not exceed 300 pounds.◦ If the actuator rod appears bent or damaged, the unit may need replacement.

Problem	Possible Cause	Solution
Chair stops moving intermittently.	<ul style="list-style-type: none"> Overheating due to continuous use (duty cycle exceeded). Intermittent electrical connection. 	<ul style="list-style-type: none"> Allow the motor to cool down for at least 18 minutes before resuming operation. Check all electrical connections for looseness or corrosion.

8. SPECIFICATIONS

Feature	Detail
Model Name	Limoss 450427 (MD140-02-L1-157-204)
Brand	Fromann
Input Voltage (Motor)	18-35V DC
Max Current (Motor)	5A Max
Duty Cycle	Max. T _{on} : 2min, Min. T _{off} : 18min
Max Load (Push/Pull)	750N (approximately 168 lbs)
Minimum Install Size	6.18 inches
Stroke Length	8.03 inches
Item Weight	7.1 pounds
Package Dimensions	17.36 x 8.23 x 4.53 inches
Recommended Uses	Operating Power Recliner or Lift Chairs
Maximum Weight Recommendation (Chair)	300 Pounds
Material	Metal

9. WARRANTY & SUPPORT

Specific warranty details for the Fromann MD140-02-L1-157-204 motor actuator replacement kit are not provided in this manual. Please refer to your purchase documentation or contact the retailer/manufacturer directly for warranty information.

Customer Support

For technical assistance, troubleshooting beyond this guide, or inquiries regarding parts, please contact Fromann customer support through their official website or the platform where the product was purchased. When contacting support, please have your model number (MD140-02-L1-157-204) and purchase date available.

