Limoss MD140-02-L1-157-204

Limoss MD140-02-L1-157-204 Recliner Motor

Instruction Manual

Introduction

This manual provides essential information for the installation, operation, and maintenance of your Limoss MD140-02-L1-157-204 replacement motor. This motor is designed for use in power recliner lift chairs and is compatible with Limoss part number 450427, and can replace 451011. Please read this manual thoroughly before proceeding with installation or operation to ensure safe and correct usage.

Safety Information

Always prioritize safety when working with electrical components. Failure to follow these safety guidelines may result in injury or damage to the product or property.

- **Disconnect Power:** Before attempting any installation, removal, or maintenance, always unplug the recliner from the electrical outlet to prevent electric shock.
- **Verify Compatibility:** Ensure the replacement motor's specifications match your original motor. Refer to the motor label for model and part numbers.
- **Proper Tools:** Use appropriate tools for installation to avoid damaging the motor or chair components.
- **Professional Assistance:** If you are unsure about any step or encounter difficulties, consult a qualified technician.
- **Avoid Overload:** Do not exceed the specified push and pull force limits of the motor (750N each).

Product Overview

The Limoss MD140-02-L1-157-204 is a linear actuator motor designed for smooth and reliable operation of power recliners and lift chairs. It features specific connection types for power and hand control.



Figure 1: Limoss MD140-02-L1-157-204 Recliner Motor Actuator.

Key Components and Connections

- **Motor Body:** Contains the internal mechanisms for linear actuation.
- **Actuator Rod:** Extends and retracts to move the recliner mechanism.
- **2-Pin Flat Round Power Transformer Connection:** This port connects the motor to the power transformer.



Figure 2: Detail of the 2-Pin Flat Round Power Transformer Connection.

- **5-Pin Hand Control Plug Connection:** This port connects the motor to the recliner's hand control unit.



Figure 3: Detail of the 5-Pin Hand Control Plug Connection.

- **Motor Label:** Contains critical information including model number, part number, input voltage, and force ratings. Always check this label for verification.



Figure 4: Example of the Limoss Motor Label, showing model and part numbers.

Specifications

Attribute	Value
Model Number	MD140-02-L1-157-204
Compatible Part Numbers	450427, 451011
Push Force	750N
Pull Force	750N
Minimum Install Size	157mm / 6.18 inches
Stroke Length	204mm / 8.03 inches
Item Weight	5.39 pounds
Package Dimensions	17.04 x 8.46 x 4.06 inches

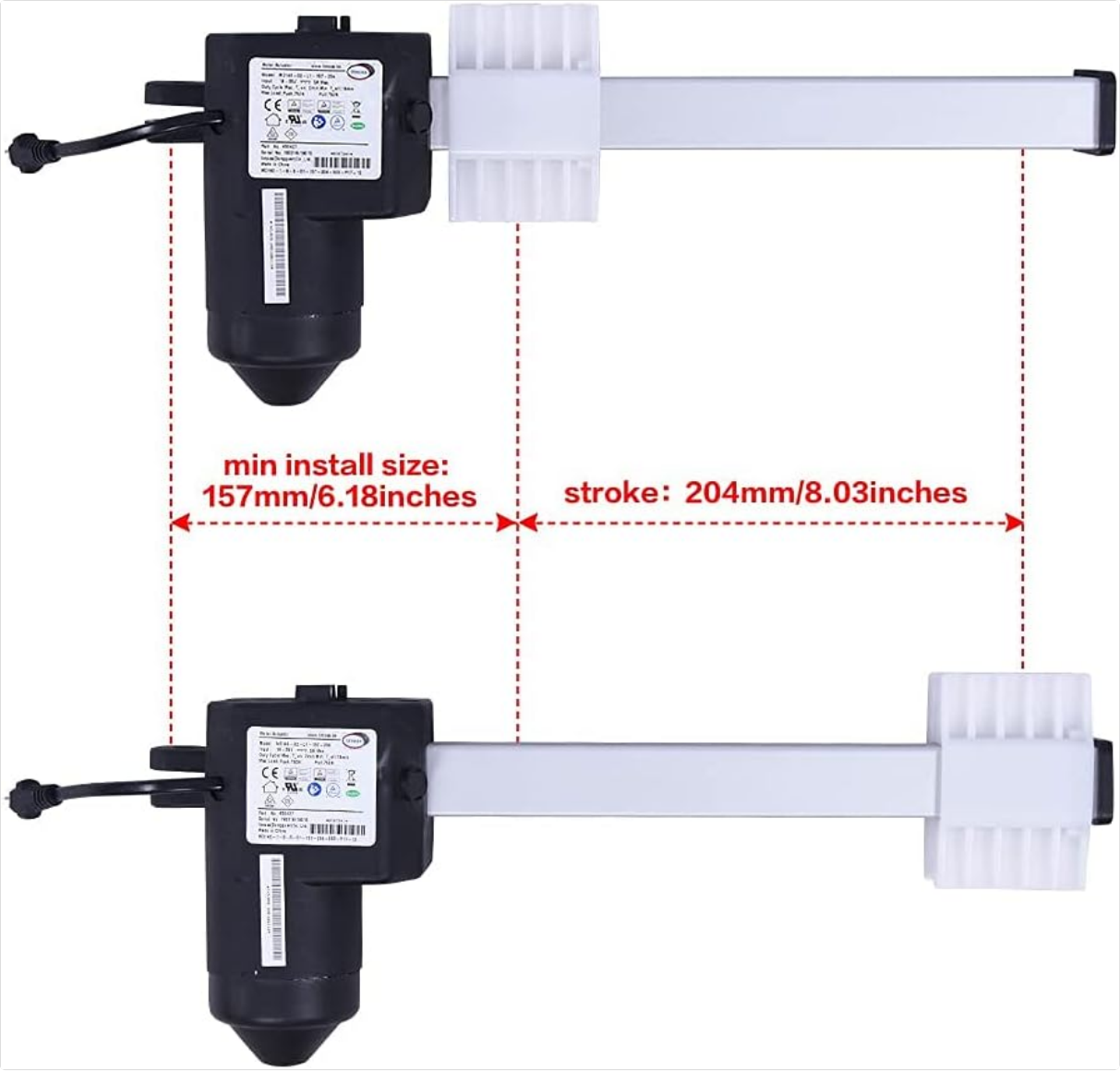


Figure 5: Motor dimensions showing minimum install size and stroke length.

Setup and Installation

Follow these steps carefully to install your new Limoss replacement motor.

1. **Prepare for Installation:**
    - Unplug the recliner from the wall outlet.
    - Carefully turn the recliner over or tilt it to access the motor area.
    - Identify the existing motor and its connections.
2. **Disconnect Old Motor:**
    - Disconnect the 2-pin power transformer connection and the 5-pin hand control plug from the old motor.
    - Unbolt or unclip the old motor from the recliner frame. Note how it was attached for reinstallation.
    - Carefully remove the old motor.
3. **Install New Motor:**
    - Position the new Limoss MD140-02-L1-157-204 motor in the same location as the old one.

- Securely bolt or clip the new motor to the recliner frame. Ensure it is stable and properly aligned.

4. **Connect Wiring:**
    - Connect the 2-pin flat round power transformer plug to the corresponding port on the new motor.
    - Connect the 5-pin hand control plug to its designated port on the new motor. Ensure all connections are firm and secure.
5. **Test Operation:**
    - Carefully return the recliner to its upright position.
    - Plug the recliner back into the electrical outlet.
    - Use the hand control to test the motor's function, ensuring it extends and retracts smoothly.

Operating Instructions

The Limoss MD140-02-L1-157-204 motor operates in conjunction with your recliner's existing hand control unit. Simply use the buttons on your hand control to extend or retract the recliner mechanism. The motor will respond to these commands, providing smooth and controlled movement.

Maintenance

The Limoss MD140-02-L1-157-204 motor is designed for minimal maintenance. However, periodic checks can help ensure its longevity and proper function.

- **Keep Clean:** Periodically inspect the motor and surrounding area for dust, debris, or obstructions. Gently clean with a dry cloth.
- **Check Connections:** Ensure all electrical connections remain secure and free from damage.
- **Avoid Liquids:** Do not expose the motor to liquids or excessive moisture.
- **Lubrication:** The motor is pre-lubricated and generally does not require additional lubrication. If unusual noises occur, consult a professional.

Troubleshooting

If you encounter issues with your Limoss motor, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Motor does not move	No power; Loose connections; Faulty hand control; Motor failure	Check power outlet and recliner plug; Ensure all motor connections are secure; Test hand control (if possible); Contact support if motor is unresponsive.
Motor makes unusual noise	Obstruction; Worn components; Misalignment	Inspect for obstructions around the motor and mechanism; Check mounting bolts for tightness; If noise persists, professional inspection may be required.

Motor moves slowly or weakly	Low power; Overload; Worn motor	Ensure adequate power supply; Do not exceed weight capacity of chair; Motor may be nearing end of life, consider replacement.

Warranty and Support

For any issues or concerns regarding your Limoss MD140-02-L1-157-204 motor, please contact the seller or manufacturer directly. Provide your purchase details and a description of the problem for efficient assistance. Refer to your purchase documentation for specific warranty terms and contact information.

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