

[Manuals.plus](#) /

› [Frassie](#) /

› Frassie Power Recliner Lift Chair Motor Limoss 450917 Actuator MD141-30-L1-157-333 Replacement Manual

Frassie MD141-30-L1-157-333

Frassie Power Recliner Lift Chair Motor Limoss 450917 Actuator MD141-30-L1-157-333 Replacement Manual

Model: MD141-30-L1-157-333

1. PRODUCT OVERVIEW

This document provides instructions for the Frassie Power Recliner Lift Chair Motor, Limoss 450917 Actuator, Model MD141-30-L1-157-333. This linear actuator is designed as a direct replacement for Limoss part numbers 450917, 450676, 450880, and 601438, commonly found in power recliners and lift chairs. It is crucial to verify compatibility with your existing motor before installation.



Image 1.1: Overview of the Frassie Limoss 450917 Actuator Motor. This image displays the complete linear actuator unit, including the motor housing and the extending rod.

2. SAFETY INFORMATION

Please read and understand all safety instructions before attempting installation or operation. Failure to follow these instructions may result in injury or damage to the product.

- **Disconnect Power:** Always unplug the recliner from the main power supply before performing any installation, maintenance, or troubleshooting.
- **Qualified Personnel:** Installation and repair should ideally be performed by individuals with experience in electrical and mechanical systems.
- **Inspect Components:** Before installation, carefully inspect the new actuator and all existing components (cables, hand control, power supply) for any signs of damage. Do not install damaged parts.
- **Secure Connections:** Ensure all electrical connections are secure and properly insulated to prevent short circuits.
- **Moving Parts:** Keep hands, clothing, and other objects clear of moving parts during operation to prevent

pinching or entanglement.

- **Weight Limits:** Do not exceed the maximum load capacity of the actuator (Push: 1000N, Pull: 1000N).

3. PRE-INSTALLATION CHECKS

Before proceeding with the installation of your new Frassie actuator, it is essential to perform the following checks:

1. **Verify Model Number:** Confirm that the model number on your existing motor matches the replacement model MD141-30-L1-157-333 or one of the compatible part numbers (Limoss 450917, 450676, 450880, 601438).
2. **Check Motor Label:** Locate the label on your old motor and compare its specifications with the new actuator. Pay close attention to input voltage, current, and load ratings.



Image 3.1: Detailed view of the motor actuator label. This label provides critical specifications such as model number (MD141-30-L1-157-333), input voltage (18-35V), max load (Push: 1000N, Pull: 1000N), and duty cycle. The part number 450917 is also visible. For more information, refer to www.limoss.de and the internal reference 1695818.

3. **Test Existing Components:** If your recliner is experiencing issues, troubleshoot your hand control switch and power supply before ordering or installing a new motor. Sometimes, the issue lies with these components rather than the actuator itself.

4. **Measure Dimensions:** Ensure the minimum installation dimension (157mm / 6.18 inches) and stroke length (333mm / 13.11 inches) of the new actuator are compatible with your recliner's frame.



Image 3.2: Diagram illustrating the minimum installation size (157mm / 6.18 inches) and the stroke length (333mm / 13.11 inches) of the linear actuator. These measurements are crucial for proper fitment.

4. INSTALLATION INSTRUCTIONS

Follow these steps carefully to replace your recliner lift chair motor:

1. **Prepare the Recliner:** Unplug the recliner from the wall outlet. Position the recliner to allow easy access to the underside, typically by tilting it onto its front or side.
2. **Disconnect Old Actuator:** Disconnect the 5-pin hand control plug and the 2-pin flat round power transformer plug from the old actuator. Note their positions for re-connection.



Image 4.1: Close-up of the 5-pin hand control plug connection port on the motor actuator. Ensure this connection is secure.



Image 4.2: Image of the 2-pin flat round power transformer plug. This plug connects the actuator to the power supply unit.

3. **Remove Old Actuator:** Unscrew and detach the old actuator from the recliner frame. Keep the existing mounting hardware if it is in good condition, or use the provided pin and 8 screws.
4. **Install New Actuator:** Position the new Frassie actuator in the same location as the old one. Secure it to the recliner frame using the provided pin and 8 screws. Ensure it is firmly mounted and aligned correctly.
5. **Connect Cables:** Connect the 5-pin hand control plug and the 2-pin flat round power transformer plug to the corresponding ports on the new actuator. Ensure connections are snug.
6. **Test Functionality:** Carefully return the recliner to its normal position. Plug the recliner back into the wall outlet. Test the recliner's functions using the hand control to ensure the actuator operates smoothly and correctly.

5. OPERATING INSTRUCTIONS

Once the Frassie actuator is correctly installed, the operation of your power recliner or lift chair will resume as normal using its original hand control. The actuator responds to signals from the hand control to extend or retract, facilitating the reclining and lifting movements.

- **Recline/Extend:** Press and hold the appropriate button on your hand control to recline the chair or extend the footrest.

- **Lift/Retract:** Press and hold the appropriate button to bring the chair to an upright position or to retract the footrest. For lift chairs, this will also engage the lifting mechanism.
- **Smooth Operation:** The actuator is designed for smooth and controlled movement. Avoid rapidly pressing and releasing buttons, which can cause jerky movements or unnecessary wear.

6. MAINTENANCE

Proper maintenance can extend the lifespan of your Frassie linear actuator:

- **Regular Inspection:** Periodically inspect the actuator, mounting points, and cables for any signs of wear, damage, or loose connections.
- **Keep Clean:** Keep the actuator free from dust, dirt, and debris. Use a dry cloth to wipe down the exterior. Avoid using harsh chemicals or excessive moisture.
- **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.
- **Cable Management:** Ensure all cables are routed safely and are not pinched or stretched, which could lead to damage.

7. TROUBLESHOOTING

If your recliner is not functioning correctly after installing the new actuator, consider the following:

- **No Movement:**
 - Check if the recliner is securely plugged into a working wall outlet.
 - Verify that the 2-pin power transformer plug is firmly connected to the actuator and the power supply.
 - Ensure the 5-pin hand control plug is fully inserted into the actuator.
 - Test the power supply unit and hand control with a known working motor if possible, or check for power output from the transformer.
- **Intermittent Movement:**
 - Inspect all cable connections for looseness or corrosion.
 - Check for any obstructions preventing the actuator from moving freely.
 - The duty cycle (Max. T_{on}: 2min, Min. T_{off}: 18min) indicates the motor needs rest. If operated continuously for too long, it may temporarily stop to prevent overheating. Allow it to cool down.
- **Unusual Noises:**
 - Ensure the actuator is securely mounted and not rubbing against any part of the recliner frame.
 - Check for any foreign objects caught in the mechanism.

If troubleshooting steps do not resolve the issue, please contact Frassie customer support or a qualified technician.

8. SPECIFICATIONS

Model	Limoss 450917 / MD141-30-L1-157-333
Replacement For	Limoss 450676, 450880, 601438
Input Voltage	18-35V DC

Max Current	5A
Max Load (Push)	1000 N
Max Load (Pull)	1000 N
Stroke Length	333 mm (13.11 inches)
Minimum Install Dimension	157 mm (6.18 inches)
Duty Cycle	Max. T_on: 2 min, Min. T_off: 18 min
Connections	5 Pin Hand Control Plug, 2 Pin Flat Round Power Transformer
Product Dimensions	7.09 x 6.46 x 10.75 inches
Item Weight	4.94 pounds (2.25 Kilograms)

9. WARRANTY AND SUPPORT

For warranty information regarding your Frassie Power Recliner Lift Chair Motor, please refer to the documentation provided at the time of purchase or contact Frassie customer support directly. Protection plans may also be available for extended coverage.

If you encounter any issues or have questions not covered in this manual, please contact the seller or Frassie customer service for assistance. When contacting support, please have your product model number (MD141-30-L1-157-333) and purchase details readily available.