Limoss MD140-02-L1-157-204

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

Model: MD140-02-L1-157-204 | Part Numbers: 450427, 451011

1. Introduction

This manual provides essential information for the safe and effective installation, operation, and maintenance of your Limoss MD140-02-L1-157-204 Power Recliner Replacement Motor Actuator. Please read this manual thoroughly before proceeding with any installation or operation to ensure proper function and longevity of the product.

2. Product Overview

The Limoss MD140-02-L1-157-204 is an original replacement motor actuator designed for power recliners. It is compatible with part numbers 450427 and 451011. This actuator is responsible for the smooth movement of your recliner mechanism, enabling reclining and upright positions.
Key features include:

- **Model:** MD140-02-L1-157-204
- **Part Numbers:** 450427, 451011
- **Power Connection:** 2-pin flat round power transformer connection
- **Hand Control Connection:** 5-pin hand control plug connection



Figure 1: Overview of the Limoss MD140-02-L1-157-204 Power Recliner Replacement Motor Actuator. This image displays the complete motor actuator unit, including the motor housing, linear shaft, and connection cables.

3. Specifications

Feature	Detail
Model	MD140-02-L1-157-204
Part Numbers	450427, 451011
Input Voltage	18-35V ⎓ 5A Max.
Duty Cycle	Max. T_on: 2min, Min. T_off: 18min
Max Load	Push: 750N, Pull: 750N
Item Weight	4.8 pounds
Product Dimensions	5 x 7 x 20 inches
Item Model Number	8541832042



Figure 2: Close-up view of the motor actuator label. This label provides critical information including the model number (MD140-02-L1-157-204), input voltage, duty cycle, max load, and part number (450427). The serial number is 190318/19015 and an internal code is *0207241*.



Figure 3: Diagram illustrating the minimum installation size and stroke length of the motor actuator. The minimum installation size is approximately 61.81 inches, and the stroke is approximately 80.31 inches.

4. Safety Information

Please observe the following safety precautions to prevent injury or damage to the product:

- Always disconnect power to the recliner before attempting any installation, maintenance, or troubleshooting.
- Ensure all connections are secure and correctly oriented to prevent electrical hazards.
- Keep hands and loose clothing clear of moving parts during operation.
- Do not operate the recliner if any components appear damaged or worn.
- If you are unsure about any step, consult a qualified technician.

5. Setup and Installation

Before installation, verify that the replacement motor actuator matches your existing unit's model and part numbers (MD140-02-L1-157-204, 450427, or 451011). Refer to the label on your current motor for confirmation.

1. **Disconnect Power:** Unplug the recliner from the wall outlet to ensure no power is supplied to the system.
2. **Access Existing Actuator:** Carefully turn the recliner over or tilt it to access the underside where the motor actuator is located.
3. **Disconnect Cables:**

- Disconnect the 2-pin flat round power transformer connection from the existing motor.
- Disconnect the 5-pin hand control plug connection from the existing motor.



Figure 4: Close-up of the 2-pin flat round power transformer connection. This cable connects the motor actuator to the power supply transformer.



Figure 5: Close-up of the 5-pin hand control plug connection. This cable connects the motor actuator to the recliner's hand control unit.

4. **Remove Old Actuator:** Unbolt or unclip the old actuator from the recliner frame. Note its orientation for correct installation of the new unit.
5. **Install New Actuator:** Position the new Limoss MD140-02-L1-157-204 actuator in the same orientation as the old one and secure it to the recliner frame using the appropriate bolts or clips.
6. **Connect Cables:**
   - Connect the 2-pin flat round power transformer cable to the new motor.
   - Connect the 5-pin hand control plug cable to the new motor.

Ensure all connections are firm and fully seated.

7. **Test Functionality:** Plug the recliner back into the wall outlet. Use the hand control to test the full range of motion (recline and return to upright) of the recliner.
8. **Secure Recliner:** Once functionality is confirmed, return the recliner to its normal position.

Note: If you encounter any difficulties during installation, it is recommended to seek assistance from a professional furniture repair technician.

6. Operating Instructions

Once the Limoss motor actuator is correctly installed and connected, operate your power recliner using its standard hand control unit. The hand control typically features buttons to extend the footrest and recline the backrest, and to return the chair to its upright position.

- Press and hold the appropriate button on your hand control to recline the chair or extend the footrest.
- Release the button when the desired position is reached.
- To return to the upright position, press and hold the corresponding button until the chair is fully closed.

Important: Avoid continuous operation for extended periods. The motor has a duty cycle of Max. T_on: 2min, Min. T_off: 18min. This means it should not be operated for more than 2 minutes continuously and requires a minimum rest period of 18 minutes between extended uses to prevent overheating.

7. Maintenance

Regular maintenance helps ensure the longevity and smooth operation of your Limoss motor actuator:

- **Cleaning:** Keep the motor and surrounding areas free from dust and debris. Use a dry cloth to wipe down the exterior of the motor. Do not use liquid cleaners directly on the motor.
- **Connection Check:** Periodically inspect all electrical connections (power and hand control) to ensure they are secure and free from damage.
- **Cable Inspection:** Check power cords and hand control cables for any signs of fraying, cuts, or kinks. Replace damaged cables immediately.
- **Lubrication:** The motor actuator is generally maintenance-free regarding internal lubrication. Do not attempt to lubricate internal components unless specifically instructed by the manufacturer.

8. Troubleshooting

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

Problem	Possible Cause	Solution

Recliner does not move.	◦ No power to the unit. ◦ Loose or disconnected power cable. ◦ Faulty power transformer. ◦ Faulty hand control. ◦ Motor actuator failure.	◦ Ensure the recliner is plugged into a live electrical outlet. ◦ Check all power connections, including the 2-pin flat round connector to the motor and the transformer connection to the wall. ◦ Test the power transformer if possible (e.g., with a multimeter or by trying a known working transformer). ◦ Inspect the 5-pin hand control cable and plug for damage. If possible, test with a known working hand control. ◦ If all other components are verified working, the motor actuator may need replacement.
Recliner moves intermittently or stops mid-cycle.	◦ Loose electrical connection. ◦ Overheating due to continuous use. ◦ Internal motor issue.	◦ Check all electrical connections for tightness. ◦ Allow the motor to cool down for at least 18 minutes if it has been operated continuously for 2 minutes or more. ◦ If the issue persists after cooling and checking connections, the motor may have an internal fault.
Unusual noises during operation.	◦ Obstruction in the mechanism. ◦ Worn or damaged motor components.	◦ Inspect the recliner mechanism for any foreign objects or obstructions. ◦ If no obstruction is found, the motor may be failing internally and require replacement.

9. Warranty and Support

For warranty information or technical support regarding your Limoss MD140-02-L1-157-204 Power Recliner Replacement Motor Actuator, please contact the seller or the manufacturer directly. Ensure you have your purchase details and the product's model and part numbers (MD140-02-L1-157-204, 450427, 451011) available when contacting support.
You can often find contact information on the original packaging or the seller's website.

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