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Somfy LT50 550R2 RTS CMO 50Nm 14rpm 120V Instruction Manual

Model: LT50 550R2 RTS CMO (Product Code: 1051012)

1. PRODUCT OVERVIEW

The Somfy LT50 550R2 RTS CMO is a robust tubular motor designed for various automated applications, such as operating blinds, shades, or projection screens. This motor features Radio Technology Somfy (RTS) for wireless control, a torque output of 50 Nm, and operates at 14 revolutions per minute on a 120V power supply. It is engineered for reliable and quiet performance.

Important Safety Information:

- Read all instructions carefully before installation and use.
- Installation must be performed by a qualified professional in accordance with all local electrical codes.
- Ensure power is disconnected before performing any installation, maintenance, or troubleshooting.
- Keep hands and loose clothing clear of moving parts during operation.
- Do not allow children to operate the motor or remote control.

2. SETUP AND INSTALLATION

This section outlines the general steps for installing the Somfy LT50 550R2 RTS CMO motor. Specific installation details may vary based on the application (e.g., type of shade or blind). Accessories such as the crown, drive, and mounting plate are not included with the motor and must be acquired separately to match your specific application.

2.1. Pre-Installation Checks

- Verify that the motor specifications (voltage, torque, speed) are compatible with your application.
- Ensure the roller tube diameter is compatible with the motor's drive and crown.
- Confirm that the mounting brackets are suitable for the installation location and motor weight.

2.2. Motor Preparation

Attach the appropriate crown and drive wheel to the motor head. These components ensure proper engagement with the roller tube.



This image displays the drive head of the Somfy LT50 550R2 RTS CMO motor. The black plastic drive head features a central opening and multiple splines designed to engage with a crown and drive wheel, which are essential for transmitting torque to the roller tube. The blue metallic casing of the motor body is visible, partially covering the drive head.

2.3. Electrical Wiring (120V)

The motor operates on 120V AC. Connect the motor's power cord to a suitable power source through a junction box, following all local electrical codes. Ensure proper grounding. If you are unsure about electrical wiring, consult a licensed electrician.

- **Live (L):** Connect to the live wire of the 120V supply.
- **Neutral (N):** Connect to the neutral wire of the 120V supply.
- **Ground (GND):** Connect to the ground wire of the 120V supply.

2.4. Motor Installation

1. Insert the motor, with the crown and drive attached, into the roller tube.
2. Mount the roller tube assembly onto the pre-installed mounting brackets. Ensure the motor is securely seated and aligned.
3. Connect the power supply to the motor.

2.5. Initial Programming and Limit Setting

Refer to your Somfy RTS remote control or control unit manual for specific instructions on pairing the motor and setting the upper and lower limits. This typically involves a series of button presses on the remote and a programming button on the motor (if available, or through power cycling).

3. OPERATING INSTRUCTIONS

The Somfy LT50 550R2 RTS CMO motor is controlled wirelessly using a compatible Somfy RTS remote control or wall switch.

- **UP Button:** Press to move the application (e.g., blind) upwards.
- **DOWN Button:** Press to move the application downwards.
- **STOP/MY Button:** Press to stop the application at any desired position. A long press on this button can often set a "my" favorite position, which can then be recalled with a short press.

Ensure the remote control batteries are functional and within range of the motor for reliable operation.

4. MAINTENANCE

The Somfy LT50 550R2 RTS CMO motor is designed for minimal maintenance. Regular checks can help ensure its longevity and optimal performance.

- **Cleaning:** Keep the motor area free from dust and debris. Use a soft, dry cloth for cleaning. Do not use abrasive cleaners or solvents.
- **Inspection:** Periodically inspect the power cord for any signs of damage. Check that the motor is securely mounted and that the crown and drive are properly engaged with the roller tube.
- **Obstructions:** Ensure there are no obstructions in the path of the moving application.

No internal lubrication or servicing is required for the motor itself. Any repairs should be handled by authorized service personnel.

5. TROUBLESHOOTING

If you encounter issues with your Somfy LT50 550R2 RTS CMO motor, refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
Motor does not respond to remote.	No power to motor. Remote control batteries are dead. Motor is not paired with remote. Remote is out of range.	Check power supply and connections. Replace remote control batteries. Perform pairing procedure (refer to remote manual). Move closer to the motor.
Motor runs but application does not move.	Crown or drive wheel not properly engaged. Obstruction in the application's path.	Inspect and re-engage crown/drive wheel. Remove any obstructions.
Application stops before reaching limits.	Limits incorrectly set. Obstruction.	Reset and reprogram the upper and lower limits. Check for and remove obstructions.

If the problem persists after attempting these solutions, contact Somfy customer support or a qualified technician.

6. SPECIFICATIONS

- **Model:** LT50 550R2 RTS CMO
- **Product Code:** 1051012
- **Torque:** 50 Nm (440 in.lbs)
- **Speed:** 14 rpm
- **Voltage:** 120V
- **Technology:** Radio Technology Somfy (RTS)
- **Cord:** Included
- **Accessories:** Crown, drive, mounting plate, etc., not included.

7. WARRANTY INFORMATION

The Somfy LT50 550R2 RTS CMO motor comes with a **5-year warranty** from the date of purchase. This warranty covers defects

in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims. The warranty does not cover damage caused by improper installation, misuse, unauthorized repairs, or external factors.

8. SUPPORT

For technical assistance, troubleshooting beyond this manual, or warranty inquiries, please contact Somfy customer support. You can find contact information on the official Somfy website or through your authorized dealer.

Online Resources: Visit the official Somfy website for additional product documentation, FAQs, and support resources.

