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› LiftMaster 850LM Security+ 2.0 Universal Receiver Instruction Manual

## LiftMaster 850LM

# LiftMaster 850LM Security+ 2.0 Universal Receiver Instruction Manual

Model: 850LM

## INTRODUCTION

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This manual provides comprehensive instructions for the installation, operation, and maintenance of your LiftMaster 850LM Security+ 2.0 Universal Receiver. This device is designed to provide secure and convenient access control for gated communities and commercial buildings, utilizing Security+ 2.0 technology for enhanced range and security. The 850LM receiver allows property managers to manage multiple access points, such as main gates, tenant and visitor doors, commercial doors, and parking entrances, using a single remote control solution.

## KEY FEATURES

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- Security+ 2.0 technology for encrypted signal and extended range.
- Supports management of multiple access points with a single remote control.
- Three channels for expanded remote control capacity: Channel 1 (50 remotes), Channel 2 (20 remotes), Channel 3 (20 remotes).
- Compatible with 811LM, 813LM, and all MAX remote controls.
- Compact design suitable for most gate and commercial door operators.
- Available in a weather-resistant version (Model 860LM).

## PACKAGE CONTENTS

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Verify that all components are present before beginning installation.

- LiftMaster 850LM Universal Receiver
- Antenna
- Mounting Hardware (screws, anchors)
- Instruction Manual



**Figure 1:** Packaging for the LiftMaster 850LM Universal Receiver. The image shows the product box with the LiftMaster logo and "UNIVERSAL RECEIVER 850LM" text, along with a graphic representation of the receiver unit.

## SETUP AND INSTALLATION

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Before installation, ensure the power supply to the gate or garage door operator is disconnected. This device requires a 12-24VDC or 12-24VAC power source.

### 1. Mounting the Receiver

1. Choose a suitable location near the gate or garage door operator, ensuring it is protected from direct weather exposure unless using the weather-resistant 860LM model.
2. Use the provided mounting hardware to securely attach the receiver to a stable surface.

### 2. Wiring the Receiver

Refer to the wiring diagram on the receiver unit and your gate/garage door operator's manual for specific connections.



**Figure 2:** The LiftMaster 850LM Universal Receiver showing its terminal block for wiring connections and the antenna port. Labels for AC/DC power input and three channels (CH.1, CH.2, CH.3) with N.O., COM, N.C. contacts are visible.

- **Power Connection:** Connect the 12-24VDC or 12-24VAC power supply to the "AC/DC" terminals.
- **Relay Outputs:** The receiver has three channels. Connect the appropriate relay outputs (N.O. - Normally Open, COM - Common, N.C. - Normally Closed) to your gate or garage door operator's control inputs.
  - Channel 1: 1 FORM C relay (N.O., COM, N.C.)
  - Channel 2: 1 FORM A relay (N.O., COM)
  - Channel 3: 1 FORM A relay (N.O., COM)
- **Antenna:** Connect the included antenna to the receiver's antenna port. Position the antenna for optimal signal reception.

### 3. Programming Remote Controls

The 850LM receiver uses Security+ 2.0 rolling code technology. Follow these steps to program compatible remote controls (e.g., 811LM, 813LM, MAX series):

1. Press and release the "Learn" button on the desired channel (CH.1, CH.2, or CH.3) on the 850LM receiver. The corresponding LED will illuminate.
2. Within 30 seconds, press and hold the button on your remote control that you wish to program.
3. The receiver's LED will flash and then turn off, indicating successful programming.
4. Release the remote control button.
5. Test the remote control by pressing the programmed button. The gate or garage door operator should activate.
6. Repeat for additional remote controls, up to the maximum capacity per channel.

**Note:** To erase all programmed remote controls from a specific channel, press and hold the "Learn" button for that channel until the LED turns off (approximately 6 seconds).

## OPERATION

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Once the receiver is installed and remote controls are programmed, operation is straightforward.

- To activate the connected gate or garage door operator, simply press the programmed button on your compatible remote control.
- The receiver will send a secure signal to the operator, initiating its function (e.g., opening, closing, stopping).
- Ensure you have a clear line of sight to the gate/door and that no obstructions are present before activation.

## MAINTENANCE

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The LiftMaster 850LM Universal Receiver is designed for reliable operation with minimal maintenance. However, periodic checks can help ensure optimal performance.

- **Cleaning:** Keep the receiver unit clean and free from dust and debris. Use a soft, dry cloth for cleaning. Do not use harsh chemicals or abrasive cleaners.
- **Connections:** Periodically inspect all wiring connections to ensure they are secure and free from corrosion.
- **Antenna:** Ensure the antenna is securely attached and positioned for best reception. Avoid bending or damaging the antenna.
- **Remote Controls:** Replace remote control batteries as needed to maintain strong signal transmission.

## TROUBLESHOOTING

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Problem	Possible Cause	Solution
Receiver not responding to remote.	Remote control not programmed. Remote control battery is low or dead. Receiver not powered. Interference.	Reprogram the remote control (see "Programming Remote Controls"). Replace remote control battery. Check power connections to the receiver. Ensure antenna is properly connected and positioned.
Limited range.	Antenna obstruction or poor positioning. Environmental interference. Low remote control battery.	Adjust antenna position for optimal line of sight. Ensure remote control battery is fresh. Consider relocating the receiver if possible.
Gate/door operator not activating.	Incorrect wiring to operator. Operator issue (not receiver).	Verify wiring connections between receiver and operator. Consult your gate/door operator's manual for troubleshooting.

If you continue to experience issues, please contact LiftMaster customer support.

## SPECIFICATIONS

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Model	850LM
Power Input	12-24VDC or 12-24VAC

<b>Relay Outputs</b>	Channel 1: 1 FORM C; Channel 2: 1 FORM A; Channel 3: 1 FORM A
<b>Remote Capacity</b>	Channel 1: 50 remotes; Channel 2: 20 remotes; Channel 3: 20 remotes
<b>Technology</b>	Narrow-band Security+ 2.0 Rolling Code and Encrypted DIP
<b>Operating Temperature</b>	-35°C to 65°C (-31°F to 149°F)
<b>Storage Temperature</b>	-40°C to 85°C (-40°F to 185°F)
<b>Dimensions (Package)</b>	6.54 x 5.28 x 1.61 inches
<b>Item Weight</b>	7 ounces

## WARRANTY AND SUPPORT

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For warranty information and technical support, please refer to the official LiftMaster website or contact their customer service department. Keep your purchase receipt as proof of purchase.

**LiftMaster Customer Support:** [www.liftmaster.com/support](http://www.liftmaster.com/support)



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