

Liftmaster Liftmaster-LOOPDETLM

Liftmaster LOOPDETLM Loop Detector User Manual

Model: Liftmaster-LOOPDETLM

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1. PRODUCT OVERVIEW

The Liftmaster LOOPDETLM Loop Detector is a fail-safe plug-in device designed to enhance the safety and functionality of gate operator systems. It detects vehicles obstructing the gate path, ensuring the gate remains open to prevent damage or injury. This detector can be configured to operate in various modes, including Shadow Loop, Interrupt Loop, or Exit Loop, providing versatile control options for different gate automation requirements.

This device is an original equipment manufacturer (OEM) item from Liftmaster, ensuring compatibility and reliable performance with specified gate operator models.

2. SETUP AND INSTALLATION

The LOOPDETLM Loop Detector is designed for plug-in installation with compatible Liftmaster gate operator models. Ensure the gate operator is powered off before beginning installation.

2.1 Compatibility

This loop detector is compatible with the following Liftmaster gate operator models:

- LA400PKG, LA412PKG, LA500PKG
- CSL24V, CSL24U, CSW24V, CSW24U
- RSL12U, RSW12U
- SL585101U, SL585103U, SL585105U, SL585151U, SL585501U, SL585503U, SL585505U
- SL595101U, SL595103U, SL595105U, SL595151U, SL595203U, SL595205U
- SL3000101U, SL3000501U
- CSW200101U, CSW200501U
- HCTDCU

2.2 Installation Steps

1. **Power Disconnection:** Ensure the gate operator's power supply is completely disconnected before installing the loop detector.
2. **Locate Receptacle:** Identify the designated plug-in receptacle for loop detectors on your specific Liftmaster gate operator control board. Refer to your gate operator's manual for exact location.
3. **Insert Detector:** Carefully insert the LOOPDETLM detector into the receptacle, ensuring a secure fit.
4. **Connect Loop Wiring:** Connect the vehicle detection loop wiring to the appropriate terminals on the LOOPDETLM detector. Consult the wiring diagram provided with your gate operator or the detector for correct connections.
5. **Power Restoration:** Once the detector is securely installed and wired, restore power to the gate operator.

2.3 Initial Configuration

After installation, the detector may require initial configuration based on the desired loop function (Shadow, Interrupt, or Exit). Refer to the [Operation section](#) for details on setting modes and sensitivity.

3. OPERATION AND SETTINGS

The Liftmaster LOOPDETLM features a control panel for adjusting its operational parameters. Familiarize yourself with the controls shown in the image below.



Image showing the front panel of the Liftmaster LOOPDETLM Loop Detector. It features a large central dial for programming, labeled 'test' and 'prog' with numbers 1 through 8. Below the dial is a toggle switch labeled 'BOOST' and 'ON/OFF'. The LiftMaster logo is visible at the bottom.

3.1 Control Panel Overview

- **Large Central Dial:** This dial is used for setting sensitivity and other programming functions. It is labeled 'test' and 'prog' with numerical settings from 1 to 8.
- **BOOST / ON/OFF Switch:** A toggle switch located at the bottom, used to activate or deactivate the 'BOOST' function and power the unit ON or OFF.
- **LED Indicators:** (Note: Specific LED functions are not visible in the provided image but are typical for such devices. Refer to the full product manual for details.)

3.2 Loop Modes

The LOOPDETLM can be configured for three primary loop functions:

- **Shadow Loop:** Keeps the gate open when a vehicle is detected within the loop area, preventing the gate from closing on the vehicle.
- **Interrupt Loop:** Stops or reverses the gate's closing motion if a vehicle enters the loop area during closure.
- **Exit Loop:** Triggers the gate to open when a vehicle approaches from the inside, allowing for exit.

Specific instructions for setting these modes and adjusting sensitivity using the central dial will be detailed in the comprehensive manual provided by Liftmaster. Generally, rotating the dial adjusts the detection sensitivity, with higher numbers often indicating greater sensitivity or different operational parameters.

3.3 BOOST Function

The 'BOOST' switch, when activated, may increase the detection range or sensitivity of the loop detector in specific scenarios. Consult the official Liftmaster documentation for precise details on when and how to use the BOOST function effectively.

4. MAINTENANCE

The Liftmaster LOOPDETLM Loop Detector is designed for minimal maintenance. However, periodic checks can ensure optimal performance and longevity.

- **Visual Inspection:** Periodically inspect the detector and its wiring for any signs of damage, corrosion, or loose connections.
- **Cleanliness:** Keep the detector free from excessive dust, dirt, or moisture. Use a soft, dry cloth for cleaning.
- **Loop Integrity:** Ensure the physical integrity of the buried or embedded detection loop. Damage to the loop can affect detector performance.
- **Functionality Test:** Regularly test the loop detector's functionality by driving a vehicle over the loop to confirm it triggers the gate operator as expected in its configured mode.

Always disconnect power to the gate operator before performing any maintenance or inspection on the loop detector or its wiring.

5. TROUBLESHOOTING

If the Liftmaster LOOPDETLM Loop Detector is not functioning as expected, consider the following common issues and solutions:

- **Detector Not Responding:**
 - Check if the gate operator has power.
 - Ensure the LOOPDETLM is securely plugged into its receptacle.
 - Verify the 'ON/OFF' switch on the detector is in the 'ON' position.
 - Inspect loop wiring for breaks or loose connections.
- **Incorrect Detection:**
 - Adjust the sensitivity dial. Too high or too low sensitivity can cause false triggers or missed detections.

- Ensure the loop is correctly installed and free from metallic interference.
- Confirm the detector is set to the correct loop mode (Shadow, Interrupt, Exit) for your application.
- **Gate Not Opening/Closing as Expected:**
 - Verify the gate operator's settings are correctly configured to respond to the loop detector's output.
 - Check for obstructions in the gate path that might be interfering with the gate operator's safety features.

For persistent issues, consult the full Liftmaster LOOPDETLM manual or contact Liftmaster technical support.

6. SPECIFICATIONS

Feature	Detail
Model Number	Liftmaster-LOOPDETLM
Manufacturer	Liftmaster
Item Weight	1.76 ounces
Package Dimensions	5.08 x 2.8 x 1.14 inches
ASIN	B074CFG4K
First Available Date	July 28, 2017

7. WARRANTY INFORMATION

Specific warranty terms for the Liftmaster LOOPDETLM Loop Detector are provided by the manufacturer, Liftmaster. Please refer to the documentation included with your product or visit the official Liftmaster website for detailed warranty coverage, duration, and claim procedures.

Purchasing protection plans may offer extended coverage beyond the manufacturer's standard warranty. Review any additional protection plan details provided at the time of purchase.

8. CUSTOMER SUPPORT

For technical assistance, troubleshooting guidance, or inquiries regarding your Liftmaster LOOPDETLM Loop Detector, please contact Liftmaster customer support directly.

You can typically find contact information (phone numbers, email, or support portals) on the official Liftmaster website or within the product packaging.