

Lutron LECL-153PH-LA

Lutron LECL-153PH-LA X-10 Compatible Dimmer Switch User Manual

Model: LECL-153PH-LA

INTRODUCTION

This manual provides detailed instructions for the safe installation, operation, and maintenance of your Lutron LECL-153PH-LA X-10 Compatible Dimmer Switch. This device is designed to control incandescent, halogen, and certain fluorescent lighting loads up to 600 watts at 120 Volts, utilizing X-10 powerline communication for dimming and switching functions. Please read all instructions thoroughly before proceeding with installation or use.

IMPORTANT SAFETY INFORMATION

- **WARNING:** To avoid fire, shock, or death, turn off power at the circuit breaker or fuse box and test that power is off before wiring.
- Install in accordance with all national and local electrical codes.
- This dimmer is for use with permanently installed incandescent, halogen, or compatible fluorescent fixtures only. Do not use with low-voltage lighting with a magnetic transformer, motor-driven appliances, or non-dimmable fluorescent fixtures.
- For indoor use only.
- If you are unsure about any part of these instructions, consult a qualified electrician.

PACKAGE CONTENTS

- Lutron LECL-153PH-LA X-10 Compatible Dimmer Switch (Light Almond)
- Mounting Screws (typically included)
- Wire Connectors (typically included)
- Instruction Manual (this document)



Image: Front view of the Lutron LECL-153PH-LA X-10 Compatible Dimmer Switch in Light Almond color, showing the rocker switch and slide dimmer control.

SPECIFICATIONS

Model Number	LECL-153PH-LA
Brand	Lutron
Operation Mode	Manual, X-10 Control
Current Rating	5 Amps
Operating Voltage	120 Volts AC, 60 Hz
Wattage (Max)	600 Watts (Incandescent/Halogen), consult Lutron for fluorescent compatibility
Circuit Type	Single-Pole or 3-Way
Actuator Type	Rocker (On/Off), Slide (Dimming)
Contact Material	Durable Engineered Thermoplastic
Connectivity Protocol	X-10
Color	Light Almond
Dimensions (L x W x H)	3 x 0.3 x 4.8 inches
Item Weight	3.94 ounces
International Protection Rating	IP00

INSTALLATION (SETUP)

This dimmer is an X-10 compatible device. Proper installation requires understanding of both standard electrical wiring and X-10

addressing. If you are unfamiliar with X-10 systems, please consult an X-10 expert or a qualified electrician.

Tools Required:

- Screwdrivers (Phillips and flathead)
- Wire strippers
- Electrical tape
- Voltage tester

Wiring Instructions:

1. **Turn Off Power:** Locate the circuit breaker or fuse that controls the light switch you are replacing. Turn it OFF. Verify power is off at the switch box using a voltage tester.
2. **Remove Existing Switch:** Carefully remove the wall plate and unscrew the existing switch from the wall box. Disconnect the wires from the old switch.
3. **Identify Wires:**
 - **Line/Hot Wire:** Carries power from the circuit breaker.
 - **Load Wire:** Connects to the light fixture.
 - **Neutral Wire:** (If present, typically white) Not always required for dimmers, but check dimmer specifications.
 - **Ground Wire:** (Bare copper or green) Connects to the metal electrical box or ground wire bundle.
 - **Traveler Wires:** (For 3-way installations, typically red or black) Connects between two switches controlling the same light.
4. **Connect the Dimmer:**
 - Connect the **ground wire** from the wall box to the green or bare copper wire on the dimmer.
 - Connect the **Line/Hot wire** to the designated Line terminal on the dimmer.
 - Connect the **Load wire** to the designated Load terminal on the dimmer.
 - For 3-way installations, connect the **traveler wires** to the appropriate traveler terminals on both the dimmer and the companion switch. Refer to the specific wiring diagram provided with your dimmer for 3-way configurations.
 - Ensure all wire connections are secure using wire connectors.
5. **Set X-10 Address:** Before mounting, set the X-10 House Code and Unit Code on the dimmer. This is typically done via small rotary switches or dip switches on the dimmer module. Refer to the specific instructions on the dimmer itself or a separate X-10 setup guide for your system.
6. **Mount the Dimmer:** Carefully fold the wires into the wall box and secure the dimmer to the box with the provided screws.
7. **Install Wall Plate:** Attach the wall plate.
8. **Restore Power:** Turn the power back ON at the circuit breaker.

OPERATION

The Lutron LECL-153PH-LA dimmer switch offers both manual control and X-10 powerline control.

Manual Control:

- **On/Off:** Press the bottom rocker switch to turn the lights ON or OFF.
- **Dimming:** Use the vertical slide control to adjust the light level. Slide up to brighten, slide down to dim.

X-10 Control:

Once the X-10 House Code and Unit Code are set, the dimmer will respond to X-10 commands sent over the powerline from an X-10 controller (e.g., a remote, wall-mounted keypad, or computer interface). Common X-10 commands include:

- **"ON"**: Turns the light on to the last set dim level or full brightness.
- **"OFF"**: Turns the light off.
- **"BRIGHT"**: Gradually brightens the light.
- **"DIM"**: Gradually dims the light.

Refer to your X-10 system's documentation for specific programming and command details.

MAINTENANCE

- **Cleaning**: To clean the dimmer, wipe with a soft, damp cloth. Do not use chemical cleaners or abrasive materials.
- **No User-Serviceable Parts**: There are no user-serviceable parts inside the dimmer. Do not attempt to open or repair the unit.

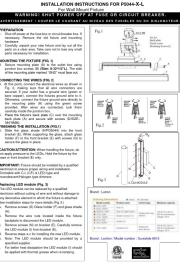
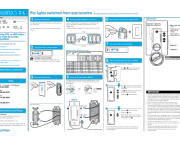
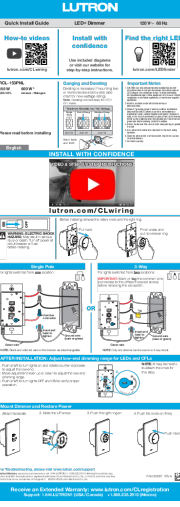
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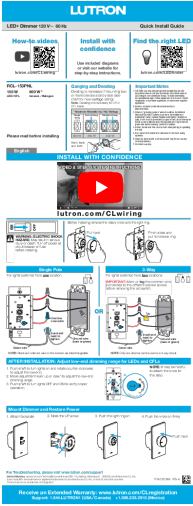
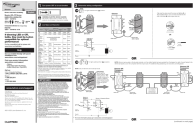
Problem	Possible Cause	Solution
Lights do not turn ON or OFF.	<ul style="list-style-type: none"> ◦ Power is off at the circuit breaker. ◦ Loose wire connection. ◦ Bulb is burned out or incompatible. ◦ Incorrect X-10 address. 	<ul style="list-style-type: none"> ◦ Check and reset the circuit breaker. ◦ Turn off power, check all wire connections. ◦ Replace bulb with a known good, dimmable bulb. ◦ Verify X-10 House and Unit Codes match your system.
Lights flicker or hum.	<ul style="list-style-type: none"> ◦ Incompatible bulb type. ◦ Load exceeds dimmer's wattage rating. ◦ Poor X-10 signal quality. 	<ul style="list-style-type: none"> ◦ Ensure bulbs are dimmable incandescent, halogen, or compatible fluorescent. ◦ Reduce total wattage of connected bulbs. ◦ Consider an X-10 signal amplifier or phase coupler if X-10 control is the issue.
Dimmer does not respond to X-10 commands.	<ul style="list-style-type: none"> ◦ Incorrect X-10 address. ◦ Weak X-10 signal. ◦ X-10 noise on powerline. 	<ul style="list-style-type: none"> ◦ Double-check House and Unit Code settings. ◦ Ensure X-10 transmitter is working correctly. ◦ Install an X-10 filter on noisy appliances or use a phase coupler.

WARRANTY AND SUPPORT

This Lutron product is covered by a warranty. For detailed warranty information, please refer to the warranty card included with your product or visit the official Lutron website. For technical support, troubleshooting assistance, or to inquire about replacement parts, please contact Lutron customer service directly.

Lutron Website: www.lutron.com

	<p>Lutron Diva LED+ Dimmer: Specifications, Features, and Wiring Guide</p> <p>Comprehensive specifications, features, color options, and wiring diagrams for the Lutron Diva LED+ Dimmer switch, designed for dimmable LED, CFL, halogen, and incandescent bulbs.</p>
	<p>Lutron P5044-X-L Wall Mount Fixture Installation Instructions</p> <p>Comprehensive installation guide for the Lutron P5044-X-L wall mount fixture, covering preparation, mounting, wiring, finishing, and LED module replacement. Includes ordering information for compatible dimmers.</p>
	<p>Lutron Maestro C.L MACL-153M Dimmer Installation Guide</p> <p>Comprehensive installation guide for the Lutron Maestro C.L MACL-153M dimmer, covering single-location and multi-location wiring, setup, operation, and compatibility for LED, CFL, halogen, and incandescent bulbs. Includes safety warnings and troubleshooting tips.</p>
	<p>Lutron LED+ Dimmer Quick Install Guide RCL-153PNL</p> <p>A quick installation guide for the Lutron LED+ Dimmer, model RCL-153PNL, providing step-by-step instructions for single-pole and 3-way installations, including important safety notes and dimming range adjustments.</p>

 <p>The thumbnail for the Lutron LED+ Dimmer RCL-153PNL Quick Install Guide shows a blue header with the Lutron logo. Below the header, there are sections for 'How to Watch', 'Install with Confidence', and 'Find the Right LED'. The main body of the thumbnail features a large red play button icon and the text 'INSTALL WITH CONFIDENCE'. Below this, there are diagrams illustrating the wiring connections for the dimmer, including single-pole and 3-way applications. The bottom of the thumbnail includes a URL 'lutron.com/CLWiring' and a note about the guide being available in English, Spanish, and French.</p>	<p>Lutron LED+ Dimmer RCL-153PNL Quick Install Guide</p> <p>This guide provides quick installation instructions for the Lutron RCL-153PNL LED+ Dimmer, covering single-pole and 3-way applications, wiring, adjustments, and important safety notes.</p>
 <p>The thumbnail for the Lutron HomeWorks Maestro LED+ RF Dimmer Installation Guide shows a white background with a blue header. The main body of the thumbnail features a large blue play button icon and the text 'INSTALL WITH CONFIDENCE'. Below this, there are diagrams illustrating the wiring connections for the dimmer, including single-pole and 3-way applications. The bottom of the thumbnail includes a URL 'lutron.com/CLWiring' and a note about the guide being available in English, Spanish, and French.</p>	<p>Lutron HomeWorks Maestro LED+ RF Dimmer Installation Guide</p> <p>Comprehensive installation guide for the Lutron HomeWorks Maestro LED+ RF Dimmer (HQRD-PRO & HQRA-PRO). Covers wiring configurations for single, two, and three-or-more location setups, load type compatibility, dimmer operation, system setup, factory reset, and troubleshooting.</p>