

Westek LC120BC-4

Westek LC120BC-4 Automatic Twist Lock Photo Control

Instruction Manual

INTRODUCTION

The Westek LC120BC-4 Automatic Twist Lock Photo Control is designed to automate outdoor lighting by sensing ambient light levels. It automatically turns lights on at dusk and off at dawn, providing convenience and energy savings. This control is suitable for various outdoor lighting fixtures, including those using mercury vapor and sodium bulbs.

IMPORTANT SAFETY INFORMATION

- **WARNING:** Disconnect power at the circuit breaker or fuse box before installation or servicing to prevent electrical shock.
- This device operates at 120 Volts, 60 Hz AC. Ensure your fixture's electrical supply matches these specifications.
- Do not exceed the maximum load ratings: 1000W Tungsten or 1800VA Ballast.
- Installation should be performed by a qualified electrician if you are unsure about electrical wiring procedures.
- Ensure the control is securely twisted into the receptacle to maintain weather resistance.

PACKAGE CONTENTS

Verify that your package contains the following item:

- 1 x Westek LC120BC-4 Automatic Twist Lock Photo Control

SETUP AND INSTALLATION

Follow these steps to properly install your photo control:

1. **Power Disconnection:** Before beginning any installation, turn off the power to the lighting fixture at the main circuit breaker or fuse box. Confirm that the power is off using a voltage tester.

2. **Locate Receptacle:** Identify the twist-lock receptacle on your outdoor lighting fixture. This is typically a standard 3-prong receptacle designed for photo controls.
3. **Align Control:** Align the three prongs of the Westek LC120BC-4 photo control with the corresponding slots in the fixture's twist-lock receptacle. The control features arrows labeled "INSTALL" and "REMOVE" to guide alignment.
4. **Insert and Twist:** Gently push the photo control into the receptacle. Once seated, twist the control clockwise until it locks securely into place. The "INSTALL" arrow indicates the direction for locking. Ensure a firm connection to maintain weather resistance.
5. **Restore Power:** Once the photo control is securely installed, restore power to the lighting fixture at the circuit breaker or fuse box.



Image: Top view of the Westek LC120BC-4 Photo Control, highlighting the 'INSTALL' and 'REMOVE' arrows for proper alignment during installation.



Image: Side view of the Westek LC120BC-4 Photo Control, illustrating the three prongs that connect into the lighting fixture's receptacle.

OPERATING INSTRUCTIONS

The Westek LC120BC-4 Photo Control operates automatically based on ambient light conditions:

- **Automatic Operation:** The integrated photocell detects when natural light levels fall below a certain threshold (dusk) and automatically activates the connected lighting fixture. When natural light levels rise above the threshold (dawn), the control deactivates the lighting.
- **Time Delay Feature:** This control includes a time delay feature. This prevents the light from turning on or off due to momentary light changes, such as car headlights or lightning flashes, thereby eliminating annoying flickering.
- **Placement Considerations:** For optimal performance, ensure the photocell is not obstructed by objects, shadows, or artificial light sources (e.g., other lamps, security lights) that could interfere with its ability to accurately detect natural light.



Image: Front view of the Westek LC120BC-4 Photo Control, showing the clear housing and internal components, including the photocell.

MAINTENANCE

The Westek LC120BC-4 Photo Control is designed for minimal maintenance. Follow these guidelines to ensure continued reliable operation:

- **Cleaning:** Periodically inspect the clear housing of the photo control for dirt, dust, or debris that may accumulate and obstruct the photocell. Gently wipe the surface with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- **Environmental Conditions:** The hermetically encapsulated photocell is designed to withstand extreme temperatures ranging from -50°F to +150°F (-45°C to +65°C). No special environmental adjustments are typically required within this range.
- **Weather Resistance:** The twist-lock design provides weather resistance. Ensure the control remains securely twisted into its receptacle to prevent moisture ingress.
- **Inspection:** Annually inspect the control for any signs of physical damage or wear. If damage is observed, disconnect power and replace the unit.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Light stays on during the day.	Photocell is obstructed or receiving insufficient light.	Check for obstructions (e.g., leaves, dirt, shadows) covering the photocell. Ensure no artificial light sources are shining directly onto the photocell.
Light does not turn on at night.	No power to the fixture, faulty bulb, or faulty photo control.	Verify power at the circuit breaker. Check if the light bulb is working. If power and bulb are fine, the photo control may be faulty and require replacement.
Light flickers or cycles on/off rapidly.	Intermittent light source affecting the photocell.	Ensure no other light sources (e.g., car headlights, security lights, streetlights) are intermittently shining on the photocell. The built-in time delay should mitigate minor instances.
Control is loose in the receptacle.	Not twisted securely.	Disconnect power, then re-insert and twist the control clockwise until it is firmly locked into the receptacle.

SPECIFICATIONS

- **Model:** LC120BC-4
- **Voltage:** 120 Volts, 60 Hz AC
- **Max Wattage (Tungsten):** 1000 Watts
- **Max Ballast:** 1800 VA
- **Operating Temperature:** -50°F to +150°F (-45°C to +65°C)
- **Material:** Plastic (Polycarbonate)
- **Switch Type:** Twist Lock
- **Indoor/Outdoor Usage:** Outdoor
- **Dimensions (L x W x H):** Approximately 6.4L x 7.6W x 7.6H Centimetres (2.5L x 3W x 3H inches)
- **Weight:** Approximately 0.16 Pounds (72.5 grams)
- **Features:** On at Dusk, Off at Dawn; Time delay to eliminate flickering; Weather resistant

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Image: Product packaging for the Westek LC120BC-4, detailing key specifications and features.

WARRANTY AND SUPPORT

Limited Warranty

Under normal use and conditions, Amertac provides to the original purchaser of this product a one-year limited express warranty. This Limited Warranty is part of your purchase agreement and you agree to its terms. For additional information and to view the full warranty statement, please visit the official Amertac website.

Contact Information

For technical support or warranty inquiries, please contact Amertac directly:

- **Manufacturer:** Amertac
- **Address:** BREINIGSVILLE, PA, 18031 US
- **Website:** www.amertac.com

