Westek 6503BC

Westek Dimmer Touch Replacement Kit 6503BC Instruction Manual

Model: 6503BC

1. Introduction

This manual provides detailed instructions for the safe installation, operation, and maintenance of the Westek Dimmer Touch Replacement Kit, Model 6503BC. Please read this manual thoroughly before installation and retain it for future reference.

The Westek 6503BC is a compact dimmer module designed for touch-controlled lighting applications, capable of handling up to 150 watts at 120 VAC, 60 Hz.

2. Safety Information

Always observe basic safety precautions when installing or using electrical products to reduce the risk of fire, electric shock, and personal injury.

- **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.
- This device is intended for indoor use only.
- Do not exceed the maximum load rating of 150 Watts.
- Ensure all wiring connections are secure and comply with local electrical codes.
- If you are unsure about any part of the installation, consult a qualified electrician.

3. Package Contents

Verify that all components are present before beginning installation:

- Westek Dimmer Touch Replacement Kit (Model 6503BC)

4. Product Overview

The Westek 6503BC is a compact, black-colored dimmer module designed for integration into existing lighting fixtures or systems. It features multiple wire leads for connection to power and load, and is rated for 120 VAC, 60 Hz, with a maximum capacity of 150 Watts.



Image: The Westek Dimmer Touch Replacement Kit 6503BC, a black rectangular module with exposed wiring. Markings on the module indicate '120 VAC', '60 HZ', '150 WATTS', and '6503'.

5. Installation Instructions

Follow these steps carefully to install the dimmer kit:

1. **Turn Off Power:** Locate the circuit breaker or fuse that supplies power to the light fixture where the dimmer will be installed. Turn off the power completely and verify it is off using a voltage tester.
2. **Access Wiring:** Carefully open the light fixture or electrical box to expose the existing wiring.
3. **Identify Wires:** The Westek 6503BC module typically has multiple wires. Common wire colors and their functions are:
    - **Black:** Line (Hot) input from power source.
    - **White:** Neutral.
    - **Red:** Switched Hot (to load/light fixture).

- **Yellow/Green:** Ground (if present).
- **Other colors (e.g., Gray, Brown):** May be for touch sensor input or specific control signals. Refer to the wiring diagram provided with your specific fixture or the dimmer's packaging for exact connections.

4. **Connect Wires:** Using appropriate wire connectors (not included), connect the wires from the dimmer module to the corresponding wires in your fixture/electrical box. Ensure all connections are tight and secure.
5. **Secure Module:** Place the dimmer module securely within the fixture or electrical box, ensuring no wires are pinched or exposed.
6. **Restore Power:** Close the fixture/electrical box cover. Turn the power back on at the circuit breaker or fuse box.

6. Operating Instructions

Once installed, the Westek 6503BC dimmer operates via a touch sensor (not included, typically part of the fixture it replaces or integrates with). The exact operation may vary based on the fixture's design, but common touch dimmer functions include:

- **Single Touch:** Turns the light ON/OFF.
- **Touch and Hold:** Dims the light up or down.
- **Multiple Touches:** May cycle through preset brightness levels (e.g., low, medium, high, off).

Refer to your light fixture's instructions for specific touch control patterns.

7. Maintenance

The Westek 6503BC Dimmer Touch Replacement Kit requires minimal maintenance.

- **Cleaning:** Ensure power is off before cleaning any part of the light fixture or touch sensor. Use a soft, dry cloth to wipe surfaces. Do not use abrasive cleaners or solvents.
- **Inspection:** Periodically inspect wiring connections for any signs of wear, damage, or loose connections. If any issues are found, turn off power and address them immediately.

8. Troubleshooting

If you experience issues with your Westek 6503BC dimmer, consult the table below for common problems and solutions.

Problem	Possible Cause	Solution
Light does not turn ON/OFF or dim.	No power to the dimmer; incorrect wiring; faulty touch sensor; bulb issue.	Check circuit breaker. Verify wiring connections. Test touch sensor. Replace bulb.
Light flickers or hums.	Incompatible bulb type (e.g., non-dimmable LED); load too low/high; loose connection.	Use dimmable bulbs. Ensure load is within 150W limit. Check wiring.
Dimmer gets warm.	Normal operation; excessive load.	Slight warmth is normal. If excessively hot, reduce load or check for short circuits. Ensure load does not exceed 150W.

If troubleshooting steps do not resolve the issue, contact a qualified electrician or Westek customer support.

9. Specifications

- **Model:** 6503BC
- **Brand:** Westek
- **Input Voltage:** 120 VAC
- **Frequency:** 60 Hz
- **Maximum Load:** 150 Watts
- **Item Weight:** 1.76 ounces (approx.)
- **Package Dimensions:** 6.57 x 3.86 x 0.87 inches (approx.)
- **UPC:** 070686491027
- **Certifications:** cRUus E72217 "B"

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Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

Answered questions about this manual

Why does the Westek 6503BC Dimmer Touch Replacement Kit manual mention red and white wires when my device has grey, brown, black, and yellow wires?

The confusion often arises because the Westek 6503BC module uses different wire colors for its internal logic versus the standard house wiring it connects to. According to the manual and common configurations for this...

Read full answer