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PANMILED 6916L-1715A 6916L-1716A

PANMILED LED Backlight Strips Instruction Manual

Brand: PANMILED | **Model:** 6916L-1715A, 6916L-1716A

1. Introduction

This manual provides essential information for the installation and use of PANMILED LED Backlight Strips, designed as replacement parts for specific LG 47-inch television models. Please read these instructions carefully before proceeding with installation to ensure proper function and safety.

2. Product Overview

The PANMILED LED Backlight Strip set consists of 8 pieces (4 'A' strips and 4 'B' strips) specifically designed for LG 47-inch TVs. Each strip has 9 LED beads. The total length of an A+B strip combination is approximately 38.58 inches. Each LED bead operates at 6V with a power consumption of 2W. The strips feature double-sided adhesive paper on the back for secure mounting.

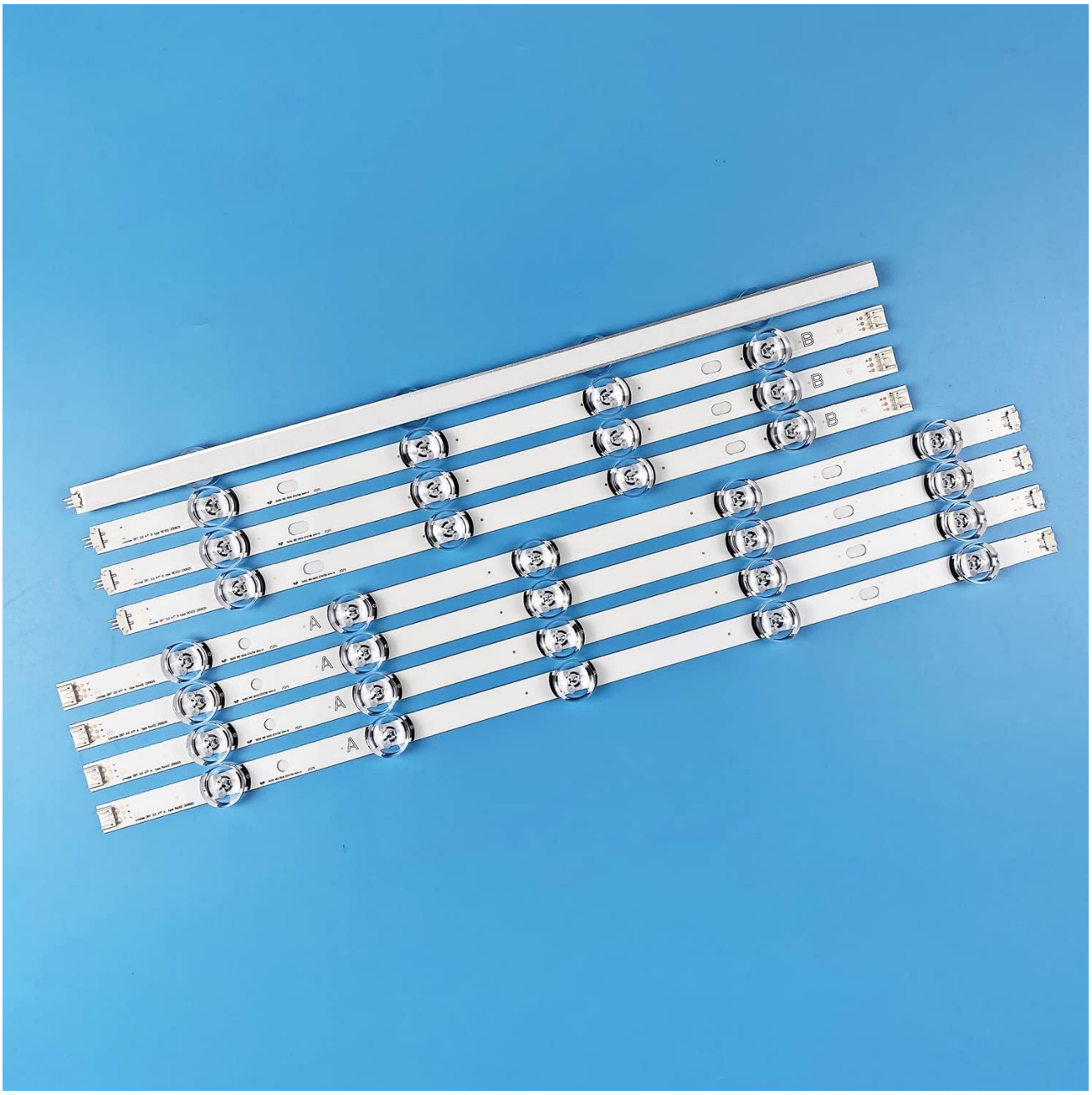


Image 2.1: Overview of the 8-piece LED backlight strip set.

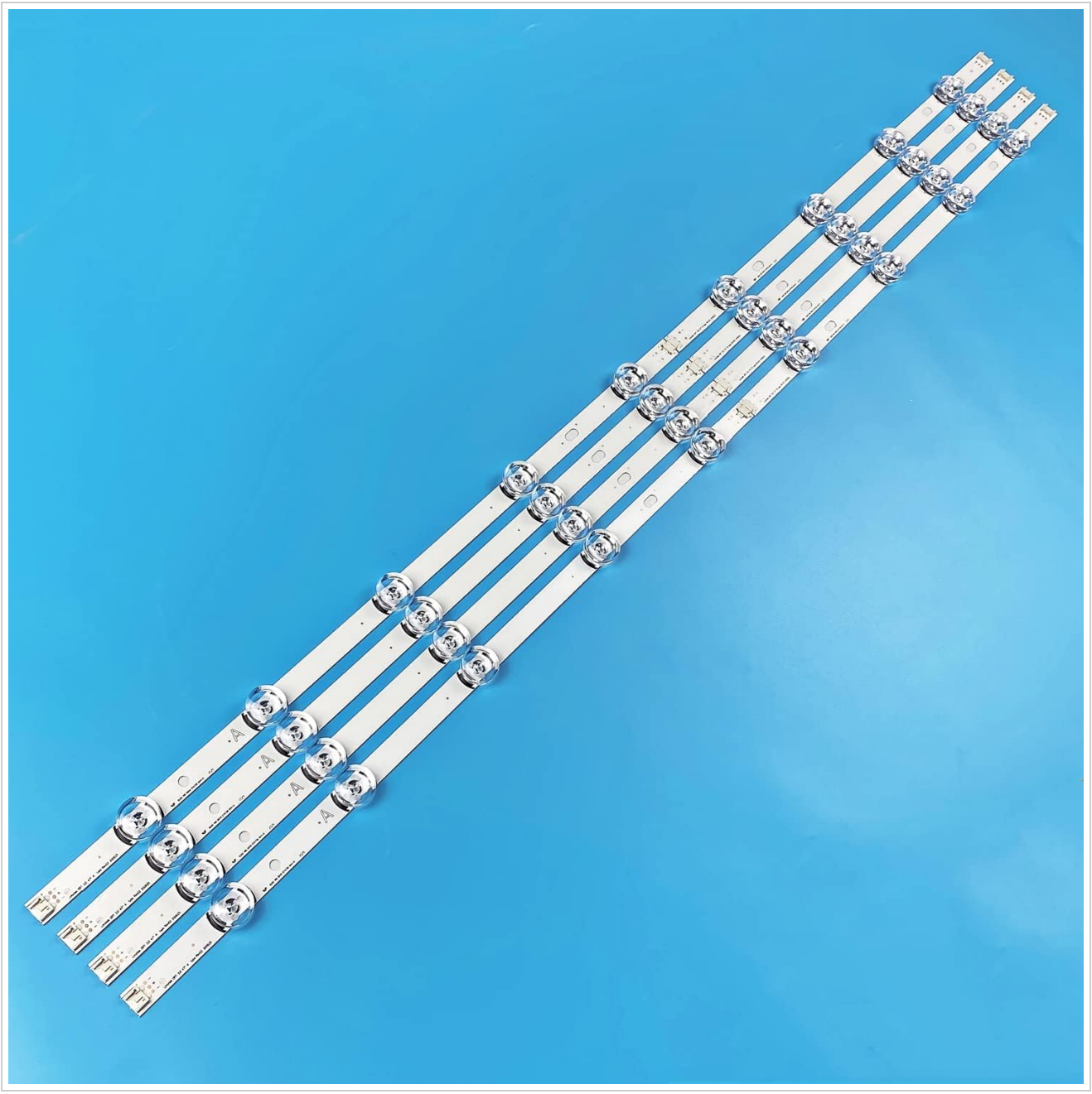


Image 2.2: Another view of the complete set of LED backlight strips.

3. Safety Information

Working with electronic components, especially inside a television, requires caution. Please observe the following safety guidelines:

- Always disconnect the television from the power source before beginning any repair or installation.
- Allow sufficient time for the television to cool down and for any residual electrical charge to dissipate.
- Handle components with care to avoid damage to sensitive parts.
- If you are unsure about any step, consult a qualified technician.
- Wear appropriate personal protective equipment, such as anti-static gloves, to prevent electrostatic discharge (ESD) damage.

4. Package Contents

Your PANMILED LED Backlight Strip set includes:

- 4 x Type 'A' LED Backlight Strips
- 4 x Type 'B' LED Backlight Strips
- Pre-applied double-sided adhesive tape on the back of each strip

5. Compatibility Check

Before installation, it is crucial to verify that these backlight strips are compatible with your specific LG 47-inch TV model. This set is compatible with LG 47-inch TVs using DRT 3.0 LC470DUH panels, including models such as:

- 47LB6100
- 47LB6300
- 47LB5800
- 47LB5900
- 47LB5500
- 47LB652V
- 47LB650V

To confirm compatibility, open your TV and compare the existing backlight strips with the product images provided. Pay close attention to the strip length, connector type, and any part numbers (e.g., 6916L-1715A, 6916L-1716A) printed on the strips.



Image 5.1: Detail of 'A' and 'B' type strip connectors and labels.



Image 5.2: Detailed view of 'A' and 'B' strips with LED lenses.

6. Installation Instructions

Replacing LED backlight strips requires careful disassembly and reassembly of the television. Proceed with caution.

6.1. Preparation

1. **Disconnect Power:** Ensure the TV is unplugged from the wall outlet.
2. **Clear Workspace:** Prepare a clean, flat, and spacious work area. Use a soft cloth or blanket to protect the TV screen.
3. **Gather Tools:** You will typically need screwdrivers (Phillips head), plastic prying tools, and possibly a multimeter for testing.

6.2. Disassembly

1. **Remove TV Back Cover:** Carefully remove all screws securing the back cover of the TV. Use a plastic prying tool to gently separate the cover from the frame.
2. **Remove Internal Components:** Disconnect and remove any circuit boards (e.g., power supply, main board)

that obstruct access to the display panel. Document connections with photos if necessary.

3. **Remove Display Panel:** This is the most delicate step. Carefully remove the bezel, then lift the LCD panel and diffuser layers. Place them face down on a clean, soft surface to prevent damage.

6.3. Replacing Backlight Strips

1. **Remove Old Strips:** Gently peel off the old LED backlight strips from the TV chassis. Disconnect their power cables.
2. **Clean Surface:** Ensure the metal chassis where the new strips will be placed is clean and free of any adhesive residue.
3. **Install New Strips:** Connect the 'A' and 'B' type strips as shown in the product images and video. Peel the protective backing from the double-sided adhesive on the new strips and carefully align them in their designated positions on the TV chassis. Press firmly to secure.

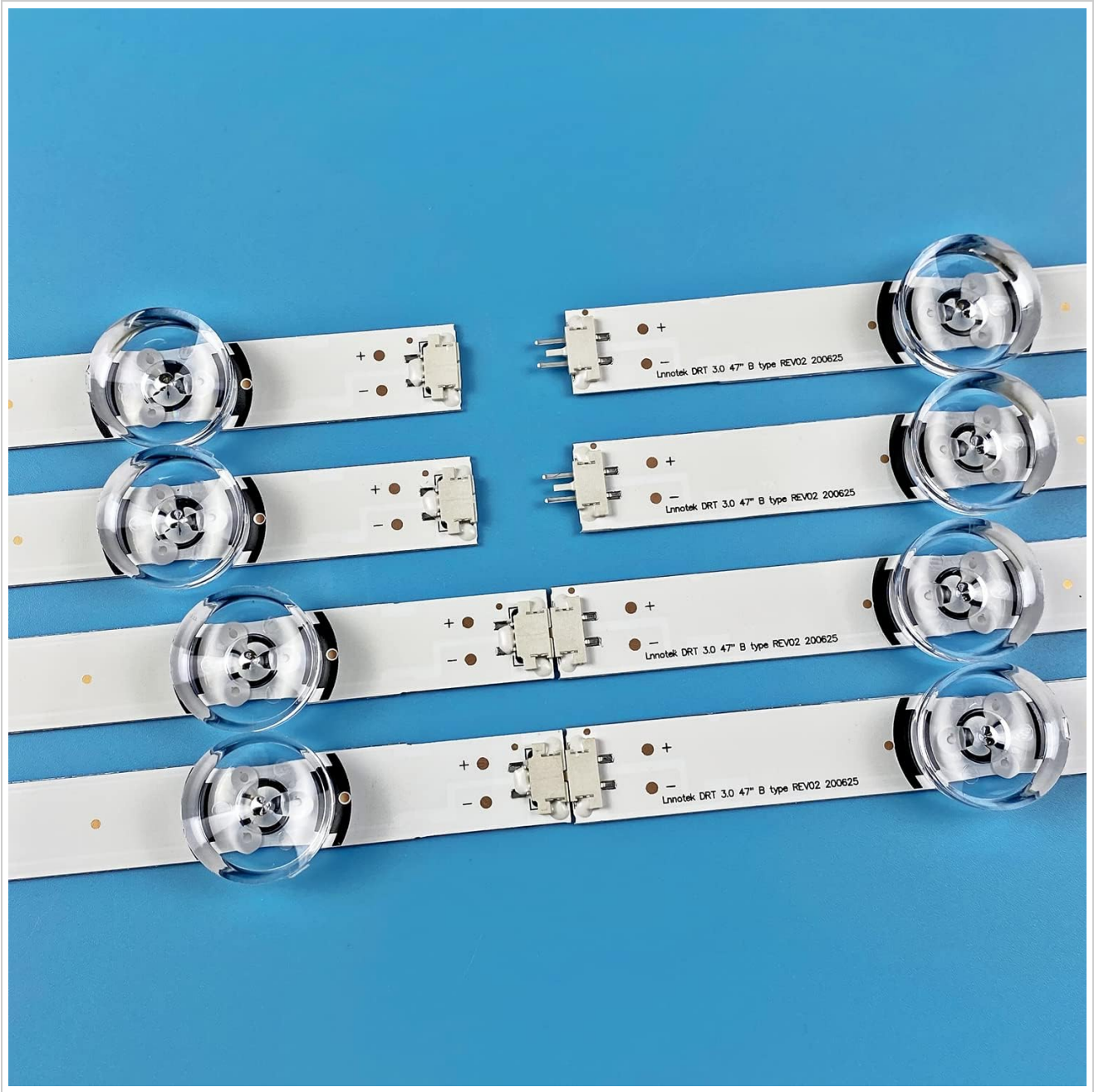


Image 6.1: Example of connecting 'A' and 'B' type strips.

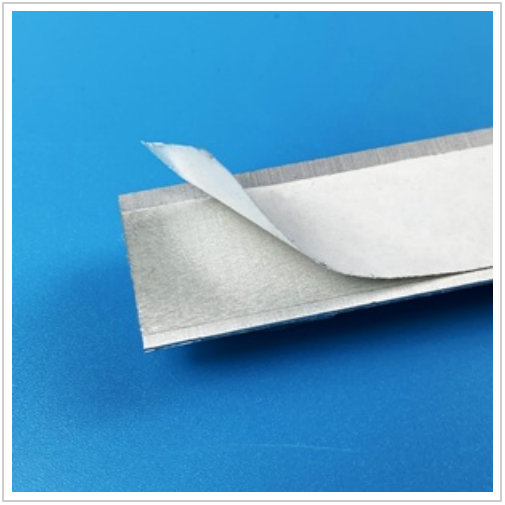


Image 6.2: Detail of the double-sided adhesive backing.

6.4. Reassembly

1. **Test Backlights:** Before fully reassembling, connect the backlight power cable and briefly plug in the TV to verify that all new LED strips illuminate correctly. (Refer to Section 7 for detailed testing).
2. **Reinstall Diffuser Layers and LCD Panel:** Carefully place the diffuser layers and then the LCD panel back into position. Ensure no dust or debris is trapped.
3. **Reinstall Internal Components and Back Cover:** Reconnect all circuit boards and secure them with screws. Finally, reattach the TV back cover.

6.5. Installation Video Guide

For a visual guide on the installation process and product features, please refer to the video below:

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Video 6.1: This video demonstrates the unboxing, inspection, and testing of the PANMILED LED Backlight Strips for LG 47-inch TVs, model 47LB6100. It shows how to connect the 'A' and 'B' strips and verify their functionality.

7. Testing the Backlight Strips

After installing the new LED strips but before fully reassembling the TV, it is recommended to test their functionality.

1. Ensure the backlight strips are properly connected to the TV's power supply board.
2. Briefly plug the TV into a power outlet. The backlight strips should illuminate evenly.
3. If any strips do not light up, or if the illumination is uneven, immediately disconnect power and recheck all connections and strip placement.
4. A multimeter can be used to test the voltage across the LED beads if individual LEDs are suspected to be faulty (refer to the video for a demonstration of testing).



Image 7.1: Detail of a strip connector for electrical testing.

8. Troubleshooting

If you encounter issues after installing the backlight strips, consider the following:

- **No Backlight:**

- Check all power connections to the backlight strips and the power supply board.
- Verify that the TV is receiving power.
- Ensure the correct type of strips (A and B) are installed in the correct sequence.

- **Uneven or Dim Backlight:**
  - Inspect each LED bead for damage or improper seating.
  - Ensure all strips are firmly adhered to the chassis and making good contact.
  - Check for any obstructions or misaligned diffuser layers.

- **Flickering Backlight:**
  - This could indicate a loose connection or a faulty LED. Recheck connections.
  - If the issue persists, individual strips may need to be tested or replaced.

9. Specifications

Brand	PANMILED
Model Numbers	6916L-1715A, 6916L-1716A
Compatible TV Size	LG 47-inch
Strip Length (A+B)	38.58 inches
Number of Strips	8 (4x Type A, 4x Type B)
LED Beads per Strip	9
LED Bead Voltage	6 Volts
LED Bead Wattage	2 watts
Material	Aluminum
Adhesive	Double-sided adhesive paper (pre-applied)
Indoor/Outdoor Usage	Indoor
Water Resistance Level	Not Water Resistant

10. Warranty and Support

PANMILED provides a 180-day after-sales service guarantee for this product. If you have any questions or concerns regarding the installation, compatibility, or performance of your LED backlight strips, please do not hesitate to contact PANMILED customer service. We are committed to responding within 24 hours to address your inquiries. For additional product information or to browse other TV LED backlight strip products, please visit the official PANMILED store page.

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