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> TCETVMVXR LED Backlight Strips User Manual for Thomson TV Models 43UD6426, 43UD6406, 43UD6336, 43S423MDAA, 43S425, 43S423, 43S421

TCETVMVXR wangchaoyuan

TCETVMVXR LED Backlight Strips User Manual

For Thomson TV Models: 43UD6426, 43UD6406, 43UD6336, 43S423MDAA, 43S425, 43S423, 43S421

INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your TCETVMVXR LED Backlight Strips. These strips are designed as replacement components for specific Thomson TV models, including 43UD6426, 43UD6406, 43UD6336, 43S423MDAA, 43S425, 43S423, and 43S421. Please read this manual carefully before proceeding with any installation or repair to ensure proper function and safety.

SAFETY INFORMATION

Always prioritize safety when working with electronic components. Improper handling or installation can lead to electric shock, damage to the product, or damage to your television. It is recommended that installation be performed by a qualified technician.

- **Disconnect Power:** Always unplug the television from the power outlet before beginning any repair or installation.
- **Static Electricity:** Wear an anti-static wrist strap or frequently touch a grounded metal object to discharge static electricity, which can damage sensitive electronic components.
- **Handle with Care:** LED strips are delicate. Avoid bending, twisting, or applying excessive force to the strips or individual LEDs.
- **Verify Compatibility:** Ensure the replacement strips are fully compatible with your specific TV model before installation. Refer to the model numbers and physical dimensions.
- **Professional Installation:** If you are unsure about any step, seek professional assistance.

PRODUCT OVERVIEW

The TCETVMVXR LED Backlight Strips are designed to replace the original backlight system in compatible

Thomson TV models. Each strip features multiple LEDs that provide illumination for the TV display. The kit typically includes multiple strips to cover the entire screen area.



Figure 1: Overview of two LED backlight strips. A measuring tape is placed alongside them, indicating a length of approximately 80.5 cm (805 mm) for each strip. This image helps in verifying the physical dimensions of the replacement parts.

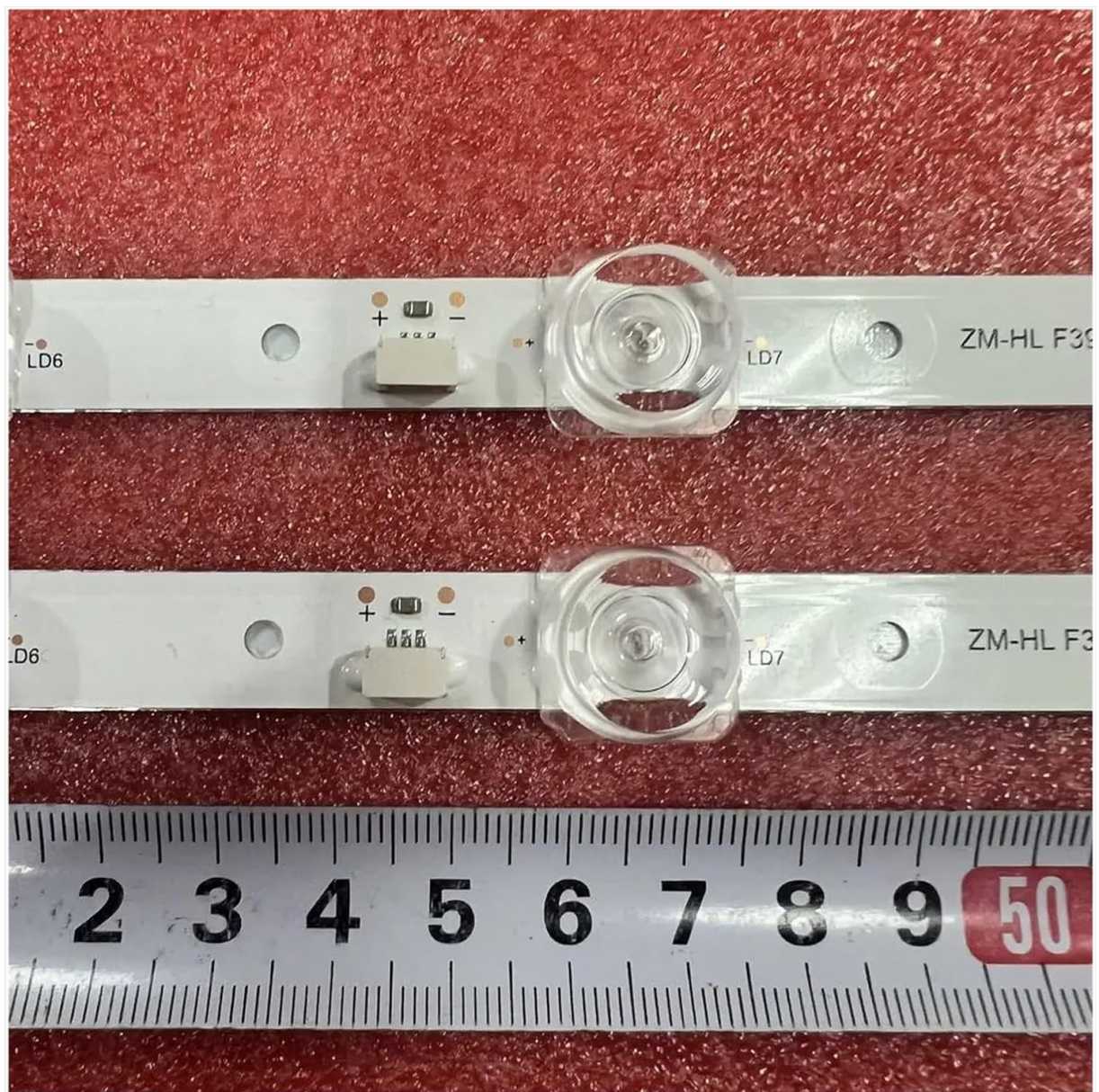


Figure 2: Detailed view of a section of the LED backlight strip. It shows the electrical connectors (marked with '+' and '-') and the clear plastic lenses covering the individual LEDs. A ruler below indicates measurements in centimeters, highlighting the precise spacing of components.



Figure 3: Close-up of the LED strip displaying identification markings such as "ZM-HL F39 4C-LB4311-ZM06J". These markings are crucial for confirming compatibility with the original TV backlight strips. A ruler is visible at the bottom for scale.

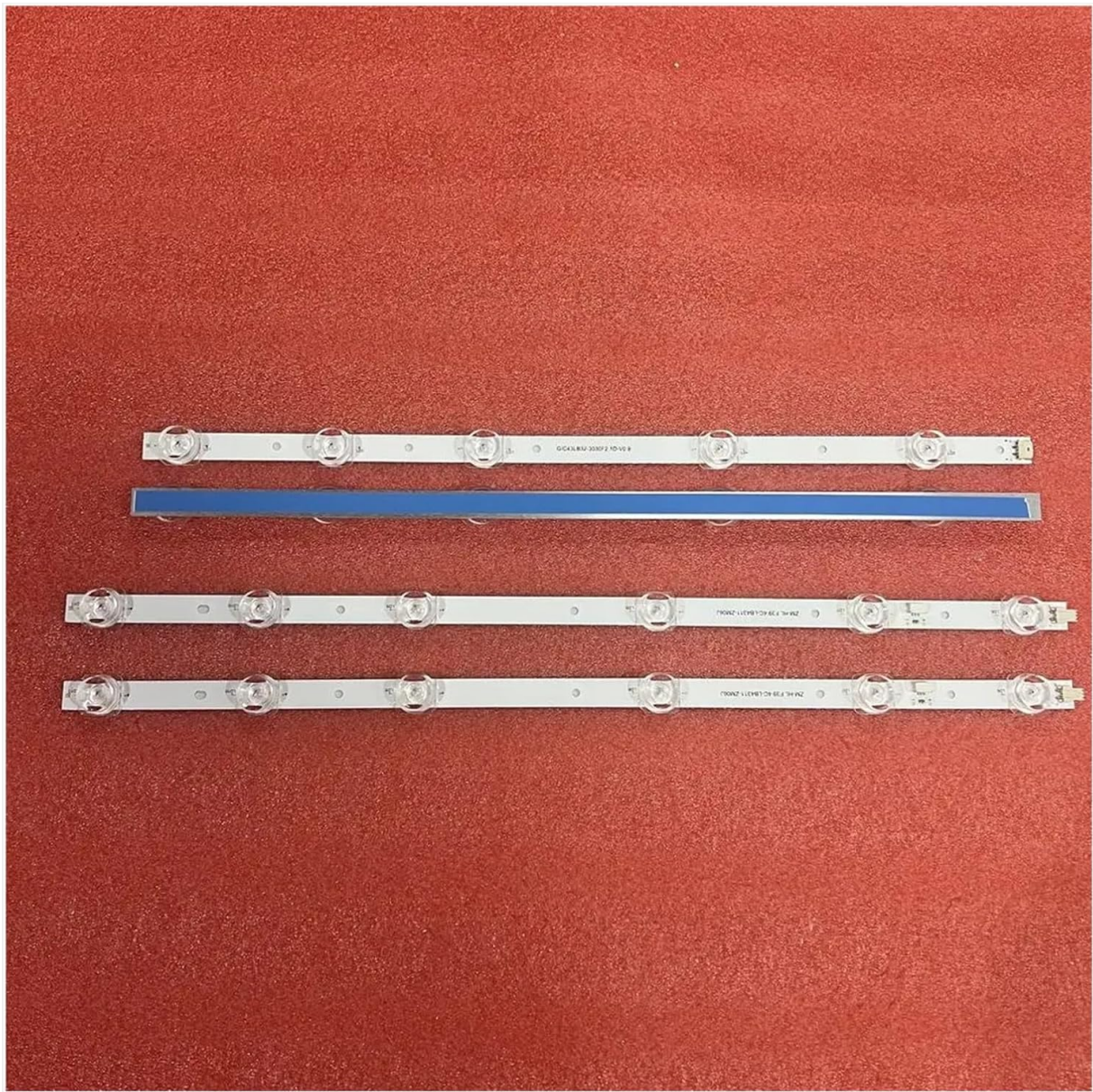


Figure 4: A complete set of LED backlight strips, typically used for one television. This image illustrates the quantity and arrangement of the strips as they would appear before installation, confirming the contents of a kit for a single TV.

SPECIFICATIONS

Feature	Detail
Product Type	LED Backlight Strips
Compatibility	Thomson TV Models: 43UD6426, 43UD6406, 43UD6336, 43S423MDAA, 43S425, 43S423, 43S421
LED Count per Strip	11 LEDs (6V each)
Strip Length	Approximately 805mm (80.5cm)
Kit Configuration	2 pieces per TV (for 1 TV)
Material	High-quality materials for durability and performance
Advantages	Low energy consumption, high brightness, long lifespan

Feature	Detail
Model Number (Internal)	wangchaoyuan

SETUP AND INSTALLATION

Replacing TV backlight strips requires careful disassembly and reassembly of the television. This is a general guide; specific steps may vary depending on your TV model. Always refer to your TV's service manual if available.

1. Preparation:

- Disconnect the TV from all power sources and external devices.
- Place the TV face down on a soft, clean surface to prevent screen damage.
- Gather necessary tools: screwdrivers, plastic prying tools, anti-static wrist strap.

2. Disassembly:

- Remove the back cover of the TV by unscrewing all retaining screws.
- Carefully disconnect any cables or ribbons that connect the back cover to the internal components.
- Locate and remove the main board, power supply board, and other internal components as necessary to access the display panel.
- Carefully remove the bezel and frame surrounding the display panel.
- Gently lift and remove the LCD panel and diffuser layers. These are extremely fragile. Keep them clean and free of dust.

3. Backlight Strip Replacement:

- Identify the old LED backlight strips. They are usually adhered to the metal chassis of the TV.
- Carefully peel off the old strips, noting their exact position and orientation.
- Clean any adhesive residue from the chassis.
- Align the new TCETVMVXR LED backlight strips in the exact positions of the old ones. Ensure proper orientation of connectors.
- Secure the new strips. Many strips come with pre-applied adhesive. If not, use appropriate heat-resistant adhesive tape.
- Connect the power cables to the new LED strips.

4. Reassembly:

- Carefully place the diffuser layers and LCD panel back into position, ensuring no dust or fingerprints are trapped.
- Reattach the bezel and frame.
- Reinstall the main board, power supply board, and other internal components, reconnecting all cables and ribbons securely.
- Replace the TV's back cover and secure it with all screws.

5. Testing:

- Plug the TV back into the power outlet.
- Power on the TV and check for proper illumination across the entire screen.

- Verify that there are no dark spots, flickering, or uneven brightness.

OPERATING INSTRUCTIONS

Once installed, the LED backlight strips operate automatically as part of your television's display system. There are no user-adjustable settings directly on the strips themselves. The brightness and other display characteristics are controlled via your TV's internal settings.

- **Power On/Off:** The backlights will illuminate when the TV is powered on and turn off when the TV is powered off or enters standby mode.
- **Brightness Control:** Adjust the backlight brightness through your television's picture settings menu.

MAINTENANCE

The TCETVMVXR LED Backlight Strips are designed for long-term, maintenance-free operation once installed. No routine maintenance is required for the strips themselves.

- **Cleaning:** Do not attempt to clean the LED strips directly. If the TV is disassembled for other repairs, ensure the strips remain free of dust and debris.
- **Environmental Conditions:** Ensure the TV operates within its recommended environmental conditions (temperature, humidity) to prolong the life of all internal components, including the backlights.

TROUBLESHOOTING

If you experience issues after installing the new LED backlight strips, consider the following troubleshooting steps:

Problem	Possible Cause	Solution
No picture, but sound is present.	Backlights are not illuminating.	◦ Check all connections to the LED strips and the power supply board. ◦ Ensure the strips are correctly seated and not damaged. ◦ Verify the power supply board is functioning correctly (may require multimeter). ◦ Confirm compatibility of the strips with your TV model.
Dark spots or uneven brightness.	One or more LEDs are faulty, or diffuser layers are misaligned.	◦ Re-open the TV and inspect the LED strips for any damaged LEDs. ◦ Ensure diffuser layers are perfectly aligned and clean. ◦ Replace any faulty strips if individual LEDs are not repairable.

Problem	Possible Cause	Solution
Flickering backlights.	Loose connection, faulty power supply to strips, or incompatible strips.	◦ Check all electrical connections. ◦ Verify the power supply board output to the LED driver circuit. ◦ Ensure the strips are fully compatible with the TV's original specifications.
TV does not power on after installation.	Incorrect reassembly, short circuit, or damage to other components.	◦ Double-check all cable connections and ensure no screws are left loose inside. ◦ Inspect for any pinched wires or components. ◦ If unsure, consult a professional technician.

If these steps do not resolve the issue, it is recommended to seek assistance from a qualified television repair technician.

WARRANTY AND SUPPORT

For information regarding warranty coverage for your TCETVMVXR LED Backlight Strips, please refer to the purchase documentation or contact your retailer. For technical support or further assistance, please reach out to the seller or manufacturer through the platform where the product was purchased. Always provide your product model number (wangchaoyuan) and the specific Thomson TV model number when seeking support.