

## TCETVMVXR wangchaoyuan

# TCETVMVXR LED Backlight Strip Instruction Manual

For Hisense 43-inch TV Models: 43U5069, 43A7000F, 43A7100F, 43A7300F, 43A7500F, 43A7100FTUK, 43AE7000FTUK, H43A7300FTUK

## 1. INTRODUCTION

### 1.1 Product Overview

This manual provides detailed instructions for the installation, operation, and maintenance of the TCETVMVXR LED Backlight Strip. This product is designed as a replacement part for specific Hisense 43-inch television models, restoring optimal display brightness and clarity.

### 1.2 Intended Use

The LED backlight strips are intended for professional or experienced users for the repair and replacement of faulty or worn-out backlight systems in compatible Hisense 43-inch televisions. Proper installation is crucial for performance and safety.

## 2. SAFETY INFORMATION

**WARNING: Always disconnect the television from the power source before attempting any installation or repair. Improper handling of electronic components can result in electric shock or damage to the device.**

- Ensure the television is completely unplugged from the wall outlet before beginning any work.
- Wear appropriate personal protective equipment, including anti-static gloves, to prevent electrostatic discharge (ESD) damage to sensitive electronic components.
- Handle LED strips by their edges to avoid damaging the LEDs or circuit board.
- Do not bend or apply excessive force to the LED strips.

- If you are unsure about any step, consult a qualified technician.

### 3. PACKAGE CONTENTS

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Verify that all components are present and undamaged upon opening the package.

- LED Backlight Strips (4 pieces for 2 TVs, or as per your order variant)



**Image 3.1:** Overview of the TCETVMVXR LED Backlight Strips. This image displays four individual LED backlight strips, each featuring multiple LED modules. A measuring tape is visible alongside the strips, indicating their approximate length and providing a sense of scale for the product.

### 4. INSTALLATION GUIDE

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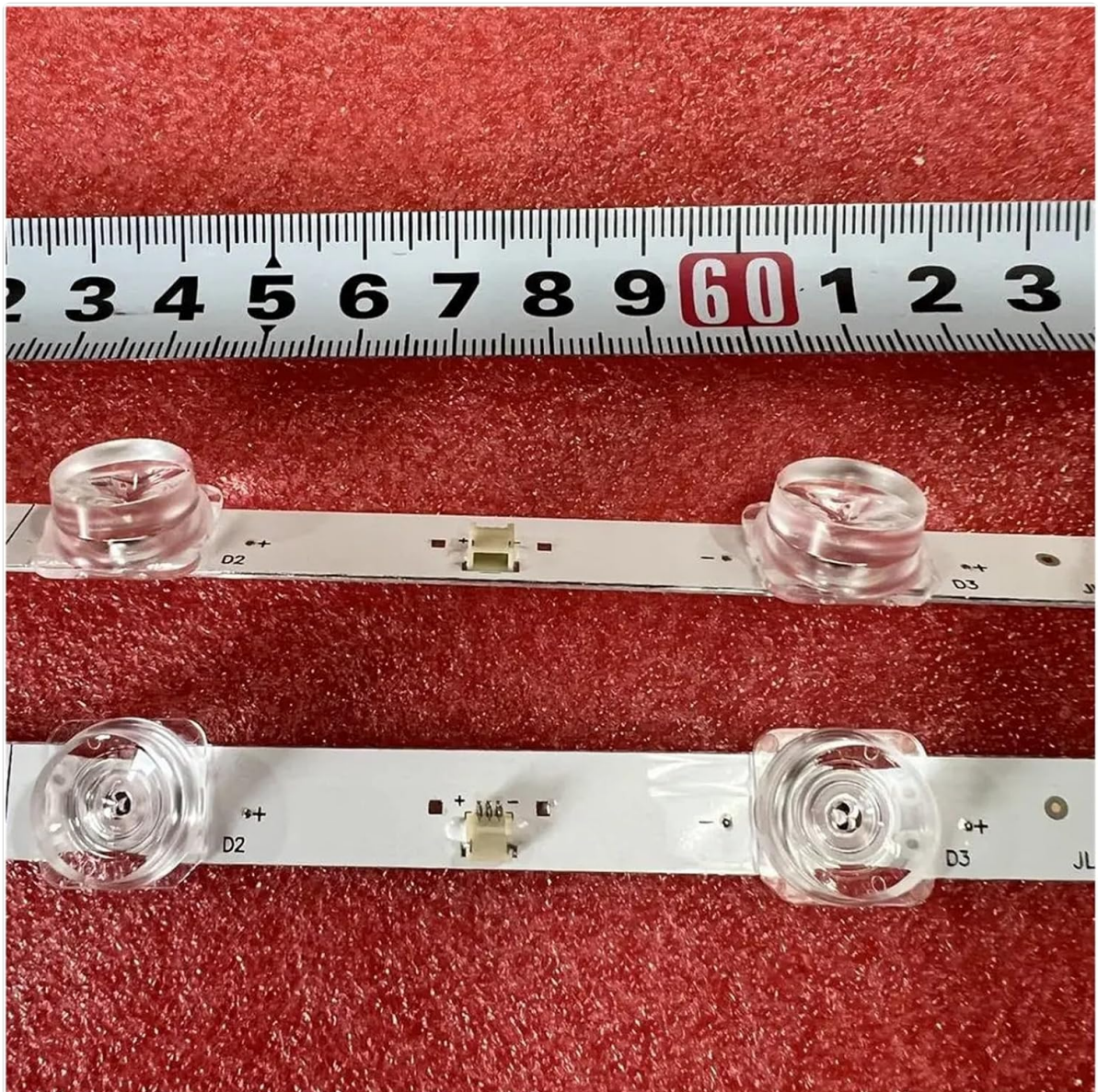
#### 4.1 Before You Begin

- Gather necessary tools: screwdrivers (various sizes), plastic prying tools, anti-static mat, anti-static wrist strap, multimeter (optional for testing).
- Prepare a clean, well-lit, and spacious work area.

- Familiarize yourself with the internal components of your specific Hisense TV model by consulting its service manual if available.

## 4.2 Step-by-Step Installation

1. **Disassemble the TV:** Carefully remove the TV stand, back cover, and any internal shields or components necessary to access the display panel. Document each step with photos if possible to aid reassembly.
2. **Remove the Display Panel:** With extreme care, detach the display panel (LCD/LED screen) from the TV chassis. This is the most delicate step and requires gentle handling to prevent cracks or damage. Place the panel face down on a soft, clean surface.
3. **Access the Backlight Assembly:** Remove the diffuser sheets and any other layers covering the existing backlight strips.
4. **Remove Old Backlight Strips:** Disconnect the power cables from the old LED strips and carefully peel them off the chassis. Note their orientation and placement.

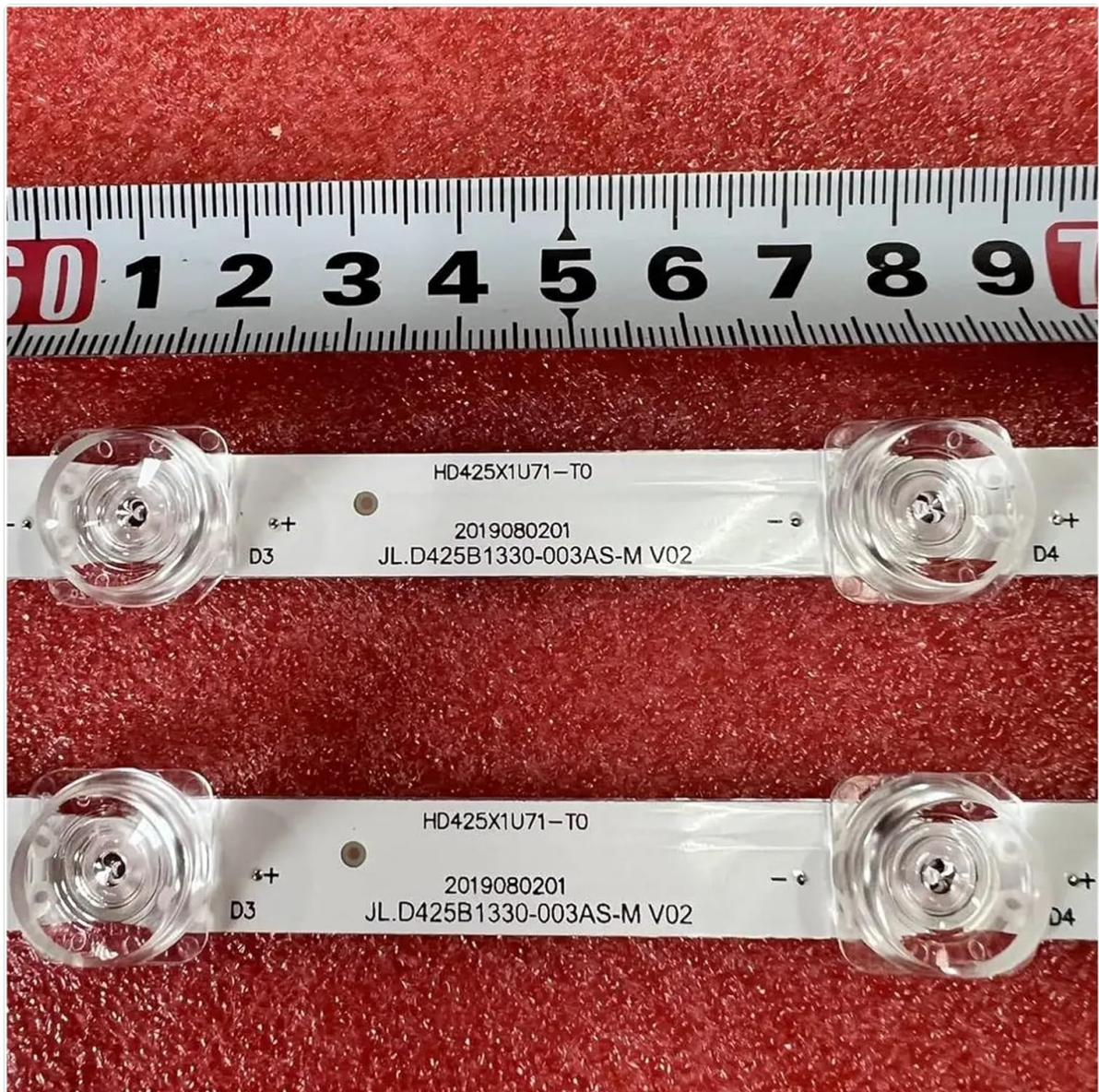


**Image 4.1:** Detailed view of an LED backlight strip. This image highlights the individual LED modules, their lenses, and the electrical connectors. A measuring tape is present, indicating the precise spacing and dimensions of the components, which is critical for matching existing parts.

5. **Install New Backlight Strips:** Align the new TCETVMVXR LED backlight strips in the exact positions of



the old ones. Ensure the connectors match and the strips are securely adhered to the chassis. Verify the model numbers on the strips match your TV's requirements.



**Image 4.2:** Identification markings on the LED strip. This close-up shows critical information such as 'HD425X1U71-T0', '2019080201', and 'JL.D425B1330-003AS-M V02', which are essential for verifying compatibility with specific TV models. The image also shows the arrangement of LEDs and their lenses.





**Image 4.3:** End section of an LED backlight strip. This image focuses on the connection points and the arrangement of LEDs at the strip's extremity, providing a clear view of how the strips connect to the TV's power board or to each other.

6. **Connect Power Cables:** Reconnect the power cables to the new LED strips.
7. **Test Backlights:** Before reassembling the entire TV, temporarily connect the TV to power and turn it on to verify that the new backlights illuminate correctly. Immediately disconnect power after verification.
8. **Reassemble the TV:** Carefully re-install the diffuser sheets, display panel, and all other components in reverse order of disassembly. Ensure all screws are tightened appropriately and no cables are pinched.

## 5. OPERATION

Once correctly installed, the TCETVMVXR LED Backlight Strips operate automatically as part of your television's display system. They provide the necessary illumination for the LCD panel to produce an image. No user interaction is required for their operation beyond the TV's normal power functions.

## 6. MAINTENANCE

The LED backlight strips are designed for long-term, maintenance-free operation. However, proper care of your television can contribute to the longevity of all its components, including the backlights.

- **Cleaning:** When cleaning your TV screen, use a soft, lint-free cloth and a screen-safe cleaning solution. Avoid spraying liquids directly onto the screen or into the TV's vents.
- **Ventilation:** Ensure the TV's ventilation openings are not blocked to prevent overheating, which can degrade LED performance over time.
- **Power Surges:** Consider using a surge protector to protect your TV and its internal components from electrical fluctuations.

## 7. TROUBLESHOOTING

If you encounter issues after installing the new LED backlight strips, refer to the following table for common problems and solutions.

| Problem                            | Possible Cause                                                                                       | Solution                                                                                                                   |
|------------------------------------|------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| No backlight / Dark screen         | Loose or incorrect cable connection.<br>Faulty power supply to backlights.<br>Damaged new LED strip. | Check all connections to the LED strips. Verify power supply board output. Re-test individual strips if possible.          |
| Uneven brightness / Dark spots     | Improperly seated diffuser sheets.<br>Damaged LED on a strip.                                        | Ensure diffuser sheets are correctly aligned. Inspect LED strips for any visible damage or unlit LEDs.                     |
| TV not turning on after reassembly | Other components not reconnected correctly. Short circuit.                                           | Double-check all internal cable connections. Ensure no tools or debris are left inside. Re-verify all steps of reassembly. |

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

## 8. SPECIFICATIONS

| Feature           | Detail                                                                                                                     |
|-------------------|----------------------------------------------------------------------------------------------------------------------------|
| Brand             | TCETVMVXR                                                                                                                  |
| Model Number      | wangchaoyuan                                                                                                               |
| Compatibility     | Hisense 43-inch TV models (e.g., 43U5069, 43A7000F, 43A7100F, 43A7300F, 43A7500F, 43A7100FTUK, 43AE7000FTUK, H43A7300FTUK) |
| LED Configuration | 11 LEDs per strip (3V each)                                                                                                |
| Strip Length      | 780mm (approx. 30.7 inches)                                                                                                |
| Package Quantity  | 4 pieces (sufficient for 2 TVs)                                                                                            |
| Item Weight       | 50 Grams (approx. 1.76 ounces)                                                                                             |

## 9. WARRANTY AND SUPPORT

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For specific warranty information regarding your TCETVMVXR LED Backlight Strips, please refer to the documentation provided at the time of purchase or contact your retailer. For technical support or inquiries, please reach out to the seller directly through the platform where the purchase was made.

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This manual is for informational purposes only. TCETVMVXR is not responsible for any damage or injury caused by improper installation or use of this product.