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› TCETVMVXR LED Backlight Bar Instruction Manual for Compatible TV Models

TCETVMVXR LED Backlight Bar (wangchaoyuan)

TCETVMVXR LED Backlight Bar Instruction Manual

For Compatible TV Models: 40A321, 40A323, 40A325, 40S312, 40S325, 40FD3316, 40FD3306, 40ES560, 40ES565, 40FE5606, 40S6800FS, 40S6500S, 40S6500 Series

1. INTRODUCTION

This manual provides essential information and instructions for the installation, operation, and maintenance of your TCETVMVXR LED Backlight Bar. This product is designed as a replacement component for specific television models to restore or enhance display illumination. Please read this manual thoroughly before proceeding with installation.

2. PRODUCT OVERVIEW

The TCETVMVXR LED Backlight Bar is a high-quality replacement part for various 40-inch television models. Each set includes two (2) LED strips, designed to illuminate one television display. Each strip features 10 LEDs, operating at 6V, and measures approximately 745mm in length. The bars are constructed from durable aluminum material.

Key Features:

- **Low Energy Consumption:** Designed for efficient power usage.
- **High Brightness:** Provides clear and consistent screen illumination.
- **Long Lifespan:** Constructed with durable materials for extended use.
- **Enhanced Viewing Experience:** Contributes to vibrant and accurate color reproduction.
- **High-Quality Materials:** Manufactured from aluminum for heat dissipation and structural integrity.



Image 2.1: Two TCETVMVXR LED backlight bars, each approximately 74.5 cm long, shown alongside a measuring tape for scale.



Image 2.2: Detailed view of an LED backlight bar, highlighting the individual LED components and a measuring tape indicating the 40 cm mark, confirming length specifications.

3. SAFETY INFORMATION

Television repair involves working with high voltage components and delicate display panels. Improper handling can result in electric shock, damage to the television, or personal injury. It is strongly recommended that installation be performed by a qualified technician. If you choose to proceed yourself, observe the following precautions:

- Always disconnect the television from the power outlet before beginning any repair work.
- Discharge any residual power in capacitors before touching internal components.
- Wear appropriate personal protective equipment, such as anti-static gloves.
- Handle the display panel with extreme care to prevent cracking or damage.
- Keep small parts away from children.

4. INSTALLATION GUIDE

This section outlines the general steps for replacing LED backlight bars. Specific disassembly procedures may vary by TV model. Refer to your television's service manual for detailed instructions on disassembling your particular model.

Tools Required (Typical):

- Screwdriver set (Phillips, Torx)
- Plastic prying tools / Spudgers
- Suction cups (for screen removal)
- Anti-static mat and wrist strap
- Multimeter (for testing, optional)

Installation Steps:

1. **Preparation:** Disconnect the TV from power. Place the TV face down on a soft, clean surface to prevent screen damage.
2. **Disassembly:** Carefully remove the TV's back cover, stand, and any internal shields or circuit boards necessary to access the display panel. Document screw locations and cable connections.
3. **Screen Removal:** Using suction cups and prying tools, carefully detach and lift the LCD panel and diffuser layers. These components are extremely fragile. Store them safely in a dust-free environment.
4. **Old Backlight Removal:** Locate and gently remove the faulty LED backlight bars. Disconnect their power connectors. Note their orientation.
5. **New Backlight Installation:** Install the new TCETVMVXR LED Backlight Bars in the exact position of the old ones. Ensure proper alignment and secure connections. The bars typically have adhesive backing for secure placement.



Image 4.1: The reverse side of two LED backlight bars, illustrating the adhesive backing used for secure installation within the television panel.

6. **Testing (Optional but Recommended):** Before reassembling, temporarily connect the TV to power and test the new backlights to ensure they illuminate correctly. Disconnect power again after testing.
7. **Reassembly:** Carefully reassemble the TV in reverse order of disassembly. Ensure all cables are properly connected and screws are tightened appropriately.

5. OPERATING INSTRUCTIONS

The TCETVMVXR LED Backlight Bar functions as an internal component of your television. Once correctly installed, it operates automatically in conjunction with your TV's power and display settings. No specific user interaction is required for the backlight bar itself.

6. MAINTENANCE

The LED backlight bars are designed for long-term, maintenance-free operation. To prolong the life of your television's display and backlight system:

- Avoid exposing the TV to extreme temperatures or humidity.

- Ensure adequate ventilation around the TV to prevent overheating.
- Clean the TV screen and exterior with a soft, dry cloth. Avoid harsh chemicals.
- Consider using the TV's power-saving modes to reduce overall operating hours of the LEDs.

7. TROUBLESHOOTING

If you encounter issues after installing the new LED backlight bars, consider the following:

- **No Picture / Dim Picture:**
 - Ensure all power connectors to the backlight bars are securely seated.
 - Verify that the TV's power supply board is functioning correctly and providing the necessary voltage to the backlights.
 - Check for any visible damage to the new LED strips or their connections.
- **Flickering / Uneven Brightness:**
 - This could indicate a loose connection or a faulty LED on one of the strips. Re-check connections.
 - Ensure the diffuser layers were reinstalled correctly and are not obstructing light.
- **TV Not Turning On:**
 - Double-check all internal cable connections, especially those to the main board and power supply.
 - Ensure no screws or tools were left inside the TV that could cause a short circuit.

If problems persist, it is advisable to consult a professional television repair technician.

8. SPECIFICATIONS

Feature	Specification
Product Type	LED Backlight Bar
Brand	TCETVMVXR
Model Number (Internal)	wangchaoyuan
Compatible TV Models	40A321, 40A323, 40A325, 40S312, 40S325, 40FD3316, 40FD3306, 40ES560, 40ES565, 40FE5606, 40S6800FS, 40S6500S, 40S6500 Series
Material	Aluminum
LEDs per Bar	10 LEDs
LED Voltage	6V
Bar Length	745mm (approx. 29.3 inches)
Quantity per TV	2 PCS/set

Feature	Specification
Package Dimensions	1.18 x 0.79 x 0.39 inches
Item Weight	1.76 ounces (50 Grams)
Assembly Required	No (refers to the bar itself, not TV installation)

9. WARRANTY AND SUPPORT

For information regarding the warranty period and terms for your TCETVMVXR LED Backlight Bar, please refer to the product listing or contact your original point of purchase. For technical support or further assistance with installation, please reach out to the manufacturer or a qualified electronics repair professional.