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TJGOPKUJ 6870S-1352B, 6870S-1353B

TJGOPKUJ 6870S-1352B and 6870S-1353B LCD Panel PCB Instruction Manual

1. Introduction

This manual provides essential information for the proper installation, operation, and maintenance of the TJGOPKUJ 6870S-1352B and 6870S-1353B LCD Panel PCB pair. These components are designed for use in V12 42FHD display systems. Adherence to these instructions will ensure optimal performance and longevity of the product.

2. Product Overview

The TJGOPKUJ 6870S-1352B and 6870S-1353B are a pair of Printed Circuit Boards (PCBs) manufactured by LG Display Co., Ltd. These specific boards are designated as V12 42FHD LEFT (6870S-1352B) and V12 42FHD RIGHT (6870S-1353B), indicating their function as left and right panel interface components for a 42-inch Full High Definition LCD display. They were designed on February 7, 2012.

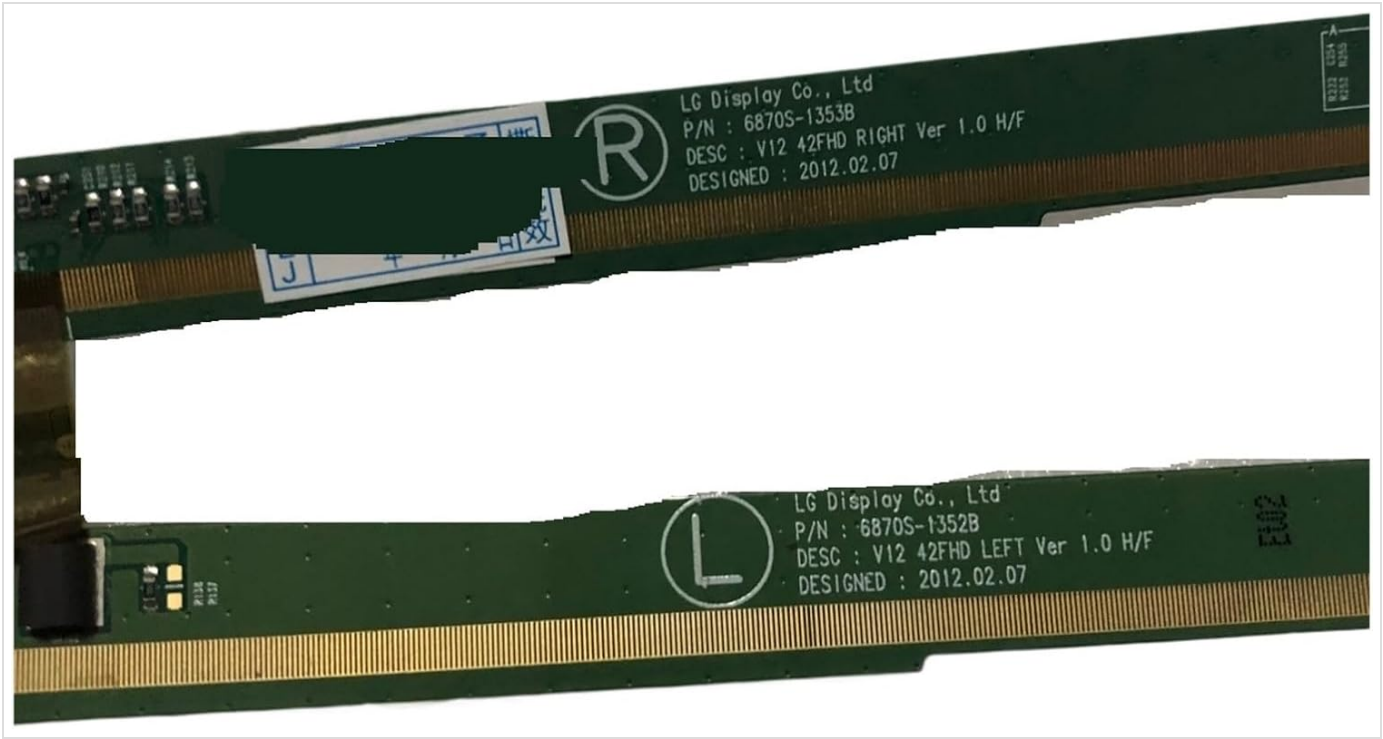


Figure 1: The image displays the 6870S-1352B (left) and 6870S-1353B (right) LCD Panel PCBs. Each board is green, featuring gold-

plated connectors and various surface-mounted components. Markings on the boards identify them as LG Display Co., Ltd products, with specific part numbers, descriptions (V12 42FHD LEFT/RIGHT Ver 1.0 H/F), and design dates (2012.02.07).

3. Safety Information

Please observe the following safety precautions to prevent damage to the product or personal injury:

- Always disconnect power from the display unit before handling or installing the PCBs.
- Wear anti-static gloves and use an anti-static mat to prevent electrostatic discharge (ESD) damage to sensitive electronic components.
- Handle PCBs by their edges to avoid touching components or connectors directly.
- Ensure proper ventilation during installation and operation.
- If you are unsure about any installation step, consult a qualified technician.

4. Setup and Installation

4.1. Before You Begin

Ensure you have the following tools and conditions:

- Appropriate screwdrivers for your display unit.
- Anti-static wrist strap and mat.
- Clean, well-lit workspace.
- The display unit is powered off and unplugged.

4.2. Installation Steps

Follow these steps carefully for installation:

1. **Prepare the Display:** Lay the display unit face down on a soft, clean surface to prevent screen damage.
2. **Access the Panel:** Carefully remove the back cover of the display unit to expose the internal components, including the existing LCD panel PCBs.
3. **Disconnect Old PCBs:** Gently disconnect all ribbon cables and power connectors from the old 6870S-1352B and 6870S-1353B PCBs. Note the orientation of each cable.
4. **Remove Old PCBs:** Unscrew or unclip the old PCBs from their mounting points.
5. **Install New PCBs:** Position the new 6870S-1352B (LEFT) and 6870S-1353B (RIGHT) PCBs in their respective locations. Secure them with screws or clips.
6. **Connect Cables:** Reconnect all ribbon cables and power connectors to the new PCBs, ensuring they are seated correctly and securely. Pay close attention to the orientation.
7. **Test Functionality:** Before reassembling the display, temporarily connect power and test the display to ensure the new PCBs are functioning correctly.
8. **Reassemble:** Once functionality is confirmed, disconnect power, and carefully reattach the back cover of the display unit.

5. Operating Principles

The 6870S-1352B and 6870S-1353B PCBs serve as critical interface components within a V12 42FHD LCD display. They are responsible for receiving video signals from the main board and distributing them to the individual gate and source drivers of the LCD panel. The 'LEFT' and 'RIGHT' designations indicate that these boards manage specific halves or sections of the display panel, ensuring synchronized and accurate pixel illumination to form the complete image. Proper operation relies on stable power supply and correct signal integrity from the main display controller.

6. Maintenance

These PCBs are designed for long-term reliability and generally require minimal maintenance. However, adhering to the following guidelines can help preserve their condition:

- **Dust Prevention:** Ensure the display unit's internal environment remains as dust-free as possible. Dust accumulation can lead to overheating or short circuits over time.
- **Temperature Control:** Operate the display within its recommended temperature range to prevent thermal stress on components.
- **Physical Handling:** Avoid physical shock or bending of the PCBs. When handling, always use anti-static precautions.
- **Cleaning:** If cleaning is necessary, use a soft, dry, anti-static brush or compressed air to remove dust. Do not use liquid cleaners directly on the PCBs.

7. Troubleshooting

If you encounter issues after installation, refer to the table below for common problems and potential solutions:

Problem	Possible Cause	Solution
No display or partial display	Loose or incorrectly connected ribbon cables.	Check all ribbon cable connections to ensure they are fully seated and correctly oriented.
Flickering or distorted image	Signal integrity issue or minor cable misalignment.	Reseat all cables. Ensure no cables are pinched or damaged.
Display shows incorrect colors or lines	Damaged PCB or incorrect part installed.	Verify that the correct left (6870S-1352B) and right (6870S-1353B) PCBs are installed in their designated positions. Inspect PCBs for visible damage.
Display powers on but no backlight	Backlight issue, not directly related to these PCBs.	Check the inverter board or LED driver board. These PCBs handle signal to the panel, not backlight power.

If troubleshooting steps do not resolve the issue, professional assistance may be required.

8. Specifications

Detailed specifications for the 6870S-1352B and 6870S-1353B LCD Panel PCBs:

Feature	Description
Part Numbers	6870S-1352B (Left), 6870S-1353B (Right)
Manufacturer	LG Display Co., Ltd (Distributed by TJGOPKUJ)
Description	V12 42FHD LEFT/RIGHT Ver 1.0 H/F
Design Date	2012.02.07
Compatibility	Designed for V12 42-inch Full HD LCD panels

Feature	Description
Package Dimensions	Approximately 1.18 x 0.79 x 0.39 inches (per board)
Item Weight	Approximately 3.49 ounces (99 grams) for the pair
Origin	Mainland China

9. Warranty and Support

This product is typically covered by a limited warranty against manufacturing defects. For specific warranty terms and conditions, please refer to the documentation provided at the time of purchase or contact your retailer. For technical support or inquiries regarding this product, please reach out to the seller or manufacturer through the contact information provided with your purchase.

Manufacturer: TJGOPKUJ

ASIN: B0DPG1KWR5

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