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› Hisense 58A6FG Mainboard RSAG7.820.12365/ROH Instruction Manual

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Model: RSAG7.820.12365/ROH

1. INTRODUCTION

This manual provides detailed instructions for the proper installation, operation, and maintenance of the Genérico mainboard, model RSAG7.820.12365/ROH. This mainboard is designed as a compatible replacement part for Hisense 58A6FG television models. Please read this manual thoroughly before proceeding with installation or any related procedures to ensure safe and correct usage.

The mainboard is a critical component responsible for processing signals, managing power, and controlling various functions of the television. Proper handling and installation are essential for the television's functionality and longevity.

2. SAFETY INFORMATION

WARNING: Risk of electric shock. Installation should only be performed by qualified technicians.

- **Power Disconnection:** Always disconnect the television from the main power supply before beginning any installation or maintenance work. Ensure the power cord is unplugged from the wall outlet.
- **Electrostatic Discharge (ESD) Precautions:** Electronic components are sensitive to static electricity. Wear an anti-static wrist strap or frequently touch a grounded metal object to discharge static electricity before handling the mainboard. Avoid touching the gold contacts or integrated circuits directly.
- **Tools:** Use appropriate, insulated tools for installation.
- **Environment:** Perform installation in a clean, dry, and well-lit area.
- **Component Handling:** Handle the mainboard by its edges. Do not apply excessive force to any components.

3. SETUP AND INSTALLATION

This section outlines the general steps for replacing the mainboard. Specific disassembly and reassembly procedures for the Hisense 58A6FG television may vary. Refer to the television's service manual for detailed instructions if available.

3.1. Required Tools

- Phillips head screwdriver
- Flathead screwdriver (optional, for prying plastic clips)
- Anti-static wrist strap
- Small container for screws

3.2. Pre-Installation Checks

- Verify that the replacement mainboard (RSAG7.820.12365/ROH) matches the model number of the original mainboard in your Hisense 58A6FG television.
- Inspect the new mainboard for any visible damage during shipping.

3.3. Installation Steps

1. **Prepare the Television:** Place the television face down on a soft, clean surface to prevent screen damage.
2. **Remove Back Cover:** Unscrew all screws securing the television's back cover. Carefully remove the back cover, noting any clips or connectors.
3. **Locate and Disconnect Old Mainboard:** Identify the existing mainboard. Disconnect all cables connected to it, including power cables, ribbon cables (LVDS), speaker cables, and input/output port cables. Take photos of cable connections for reference if needed.
4. **Remove Old Mainboard:** Unscrew the screws holding the old mainboard in place. Carefully lift and remove the old mainboard from the television chassis.
5. **Install New Mainboard:** Position the new RSAG7.820.12365/ROH mainboard into the chassis, aligning it with the screw holes and input/output ports. Secure it with the screws removed earlier. Do not overtighten.
6. **Reconnect Cables:** Carefully reconnect all cables to their corresponding ports on the new mainboard. Ensure all ribbon cables are seated correctly and their locking mechanisms are engaged. Refer to your photos if necessary.
7. **Initial Power Test (Optional):** Before replacing the back cover, you may perform a brief power test. Connect the power cord and attempt to power on the TV. If it powers on and displays a picture, disconnect power immediately.
8. **Replace Back Cover:** Carefully reattach the television's back cover, ensuring all clips are engaged and screws are tightened.

3.4. Post-Installation Checks

- Ensure all screws are tightened and the back cover is securely in place.
- Connect the television to power and external devices (e.g., antenna, HDMI sources).
- Power on the television and verify proper functionality: picture, sound, remote control response, and input switching.



Image 1: Overview of the Genérico Mainboard RSAG7.820.12365/ROH. This image shows the general layout and components of the mainboard, which is a compatible replacement for Hisense 58A6FG televisions.

4. OPERATING THE TELEVISION AFTER MAINBOARD REPLACEMENT

Once the mainboard is successfully installed, the television should operate as intended. The mainboard itself does not require direct user operation. All functions are controlled via the television's remote control and on-screen menus, as per the original Hisense 58A6FG user manual.

- **Initial Setup:** Upon first power-on after mainboard replacement, the television may prompt you to perform an initial setup (language, region, channel scan, network settings). Follow the on-screen instructions.
- **Firmware Updates:** Ensure the television's firmware is up to date. This can usually be done through the TV's settings menu, often requiring an internet connection.

5. MAINTENANCE

The mainboard itself is a sealed electronic component and requires no routine maintenance. However, general care for the television can contribute to the longevity of all its internal components, including the mainboard.

- **Dust Removal:** Periodically clean the television's ventilation openings to prevent dust buildup, which can lead to overheating. Use a soft brush or compressed air. Ensure the TV is unplugged before cleaning.
- **Ventilation:** Ensure the television has adequate airflow around it. Do not block ventilation slots.
- **Environmental Conditions:** Avoid exposing the television to extreme temperatures, high humidity, or direct sunlight.

6. TROUBLESHOOTING

If you encounter issues after replacing the mainboard, refer to the following common troubleshooting steps. If problems persist, contact a qualified technician or the seller for support.

Problem	Possible Cause	Solution
Television does not power on.	• Power cable not connected. • Loose internal power connection. • Faulty power supply unit (PSU) or mainboard.	• Ensure power cable is securely plugged into the wall and TV. • Recheck all internal power cable connections to the mainboard. • Verify the power outlet is functional.
No picture, but sound is present.	• Loose LVDS (ribbon) cable connection. • Faulty backlight. • Faulty T-Con board.	• Ensure the LVDS cable connecting the mainboard to the T-Con board (or directly to the panel) is securely seated. • This issue may indicate a problem with the backlight or T-Con board, not necessarily the mainboard.
No sound, but picture is present.	• Loose speaker cable connection. • Incorrect audio settings. • Faulty speakers.	• Check speaker cable connections to the mainboard. • Verify TV audio settings (volume, mute, output source). • Test with external speakers or headphones if possible.
Remote control not responding.	• Remote control batteries are dead. • IR sensor on TV is blocked or faulty.	• Replace remote control batteries. • Ensure no obstructions are blocking the TV's IR sensor.
Input ports (HDMI, USB) not working.	• Loose internal connections to the ports. • Faulty mainboard ports.	• Ensure external devices are working and cables are connected correctly. • If multiple ports are affected, the mainboard may be faulty or connections are loose.

7. SPECIFICATIONS

The following specifications are for the Genérico Mainboard RSAG7.820.12365/ROH:

- **Model Number:** RSAG7.820.12365/ROH
- **Compatible TV Model:** Hisense 58A6FG
- **RAM Memory Technology:** DDR4
- **Compatible Processors:** Amlogic S905X3
- **Chipset Type:** Hisense RSAG7.820.12365/ROH
- **Graphics Card Interface:** PCI Express
- **Number of Ports:** 4
- **Total SATA Ports:** 4
- **Total PCIe Ports:** 2
- **Manufacturer:** GENÉRICO

8. WARRANTY AND SUPPORT

For warranty information and technical support regarding this Genérico mainboard, please refer to the documentation provided by your seller or contact the seller directly. Warranty terms and conditions may vary depending on the point of purchase.

It is recommended to retain your proof of purchase for any warranty claims.

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