Technics SH-GE70

Technics SH-GE70 Equalizer User Manual

Model: SH-GE70

Introduction

The Technics SH-GE70 is a sophisticated stereo graphic equalizer designed to provide precise control over your audio system's frequency response. This unit allows you to fine-tune your sound, compensating for room acoustics, speaker characteristics, or personal listening preferences. With its advanced features and intuitive controls, the SH-GE70 enhances your audio experience by delivering clear, balanced, and customized sound.

Key Features:

- **7 Bands Per Channel:** Offers detailed frequency adjustment across the audio spectrum.
- **LED Lighted Sliders:** Provides clear visual feedback of equalization settings.
- **LED Signal Level Indicators:** Helps monitor audio input and output levels.
- **Switchable EQ Defeat:** Allows for quick comparison between equalized and flat sound.
- **+/- 12dB Boost/Cut:** Provides a wide range of adjustment for each frequency band.
- **12 Memory Presets:** Store and recall your favorite equalization settings.
- **Spectrum Analyzer Display:** Visualizes the frequency content of the audio signal.



Figure 1: Front view of the Technics SH-GE70 Equalizer. This image displays the unit's sleek design, the central spectrum analyzer display, and the array of sliders and buttons for audio control.

Setup and Connections

Before connecting your Technics SH-GE70, ensure all audio components are powered off. Proper connection is crucial for optimal performance and to prevent damage to your equipment.

1. Placement:

Place the equalizer on a stable, flat surface, away from direct sunlight, heat sources, and excessive dust or moisture. Ensure adequate ventilation around the unit.

2. Audio Connections:

The SH-GE70 typically connects between your audio source (e.g., CD player, tape deck) and your amplifier, or within your amplifier's tape monitor loop. Use high-quality RCA cables for all connections.

- **Connecting to a Tape Monitor Loop:**
  1. Connect the *"REC OUT"* jacks of your amplifier to the *"LINE IN"* jacks on the SH-GE70.
  2. Connect the *"PLAYBACK IN"* jacks of your amplifier to the *"LINE OUT"* jacks on the SH-GE70.
- **Connecting to a Tape Deck (for recording equalization):**
  1. Connect the *"REC OUT"* jacks of the SH-GE70 to the *"LINE IN"* jacks of your tape deck.
  2. Connect the *"LINE OUT"* jacks of your tape deck to the *"PLAYBACK IN"* jacks on the SH-GE70.

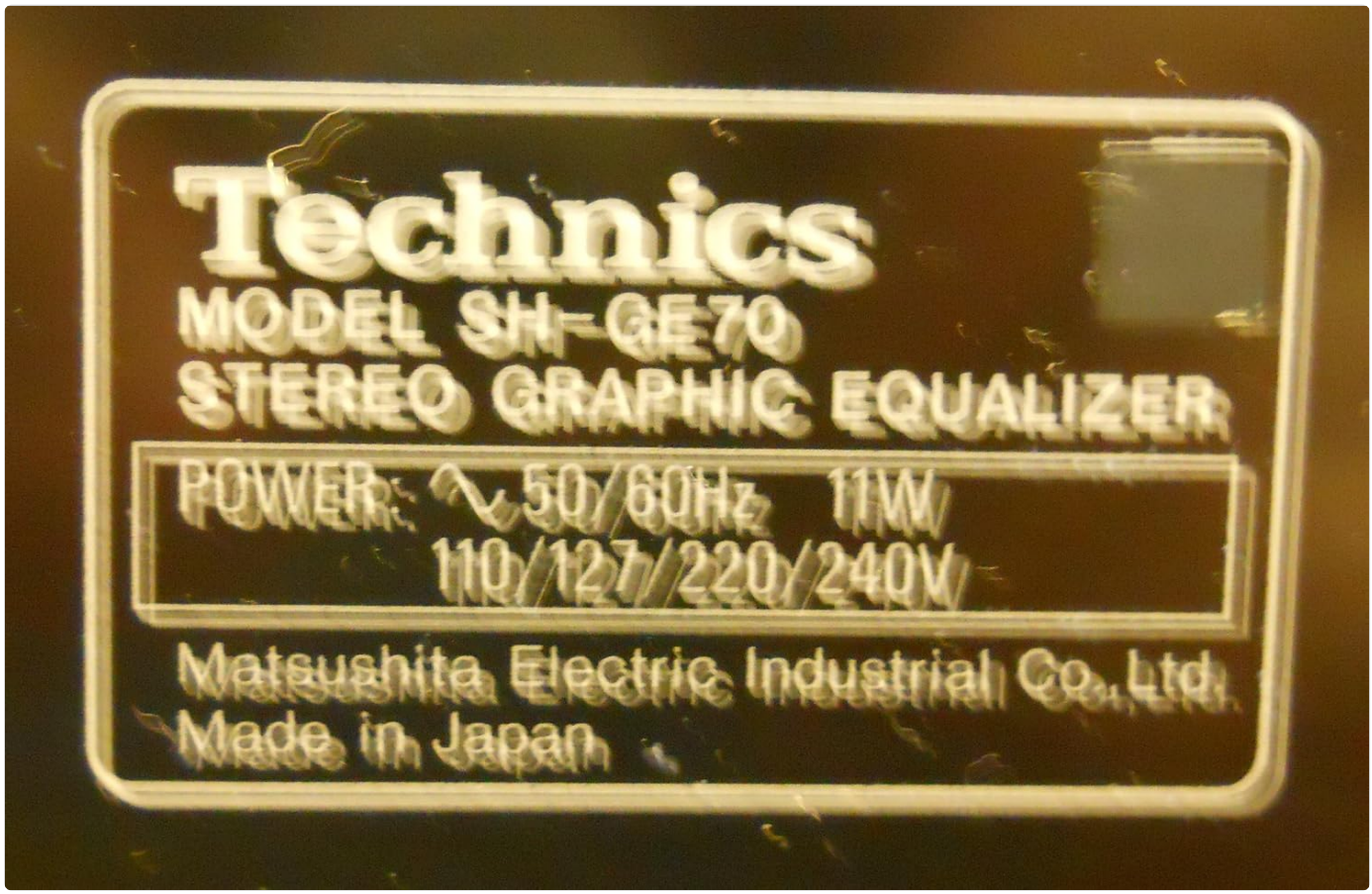


Figure 2: Rear panel of the Technics SH-GE70 Equalizer. This image highlights the various audio input/output connections and the power inlet.

3. Power Connection and Voltage Adjustment:

Connect the supplied AC power cord to the unit's power input and then to a suitable wall outlet.**Important:** Before connecting power, verify the voltage adjustment switch on the rear panel (labeled "VOLT ADJ") is set to match your local

power supply (e.g., 110V, 127V, 220V, 240V). Incorrect voltage settings can damage the unit.



Figure 3: Close-up of the power specification label on the rear panel. This image shows the voltage options (110/127/220/240V) and power consumption details.

Operating Instructions

1. Powering On/Off:

Press the **POWER** button located on the front left of the unit to turn the equalizer on or off. The display will illuminate when the unit is powered on.



Figure 4: Left side of the front panel. This image shows the power button and the initial frequency band sliders.

2. Equalization Adjustment:

The SH-GE70 features seven frequency bands per channel, each controlled by a dedicated slider. Adjust these sliders to boost or cut frequencies by up to +/- 12dB.

- **Frequency Bands:** 63Hz, 160Hz, 400Hz, 1kHz, 2.5kHz, 6.3kHz, 12.5kHz.
- Move a slider upwards to *boost* (increase) the volume of that frequency range.
- Move a slider downwards to *cut* (decrease) the volume of that frequency range.
- The LED lights on each slider indicate the current boost/cut level.

3. EQ Defeat:

Press the **EQ ON/OFF** button to bypass the equalizer circuit. This allows you to quickly compare the sound with and without equalization applied.

4. Memory Presets:

The unit can store up to 12 custom equalization settings. Use the **MEMORY** buttons (1-12) to recall a stored preset. To save a setting:

1. Adjust the sliders to your desired equalization curve.
2. Press the **MEMORY** button.
3. Select the desired preset number (1-12) to save your settings.

5. Spectrum Analyzer Display:

The central display acts as a spectrum analyzer, visually representing the frequency content of the audio signal. You can cycle through different display modes using the **DISPLAY MODE** button:

- **Memory:** Shows the currently selected memory preset curve.
- **Fixed:** Displays a fixed frequency response.
- **Manual:** Shows the current manual slider settings.
- **EQ On/Off:** Toggles the display to show the effect of the EQ.
- **Reverse:** Inverts the display.

The **PEAK HOLD** button will hold the highest peak level displayed on the spectrum analyzer until reset.

6. Input Selector:

Use the **INPUT SELECTOR** buttons to choose between different audio sources connected to the equalizer (e.g., Line, Tape).



Figure 5: Right side of the front panel. This image details the memory preset buttons, spectrum analyzer controls, and input selection.

Maintenance

Cleaning:

To maintain the appearance and performance of your SH-GE70, follow these cleaning guidelines:

- Always unplug the unit from the power outlet before cleaning.
- Wipe the exterior surfaces with a soft, dry cloth. For stubborn marks, slightly dampen the cloth with water or a mild, non-abrasive cleaner.
- Do not use harsh chemicals, solvents, or abrasive cleaning pads, as these can damage the finish.
- Avoid spraying liquids directly onto the unit.

General Care:

- Keep the unit away from excessive dust, which can accumulate inside and affect performance.
- Ensure proper ventilation to prevent overheating. Do not block ventilation openings.
- Avoid placing heavy objects on top of the equalizer.

Service:

The Technics SH-GE70 contains no user-serviceable parts inside. Refer all servicing to qualified service personnel. Attempting to open the unit or perform repairs yourself can result in electric shock and void any applicable warranty.

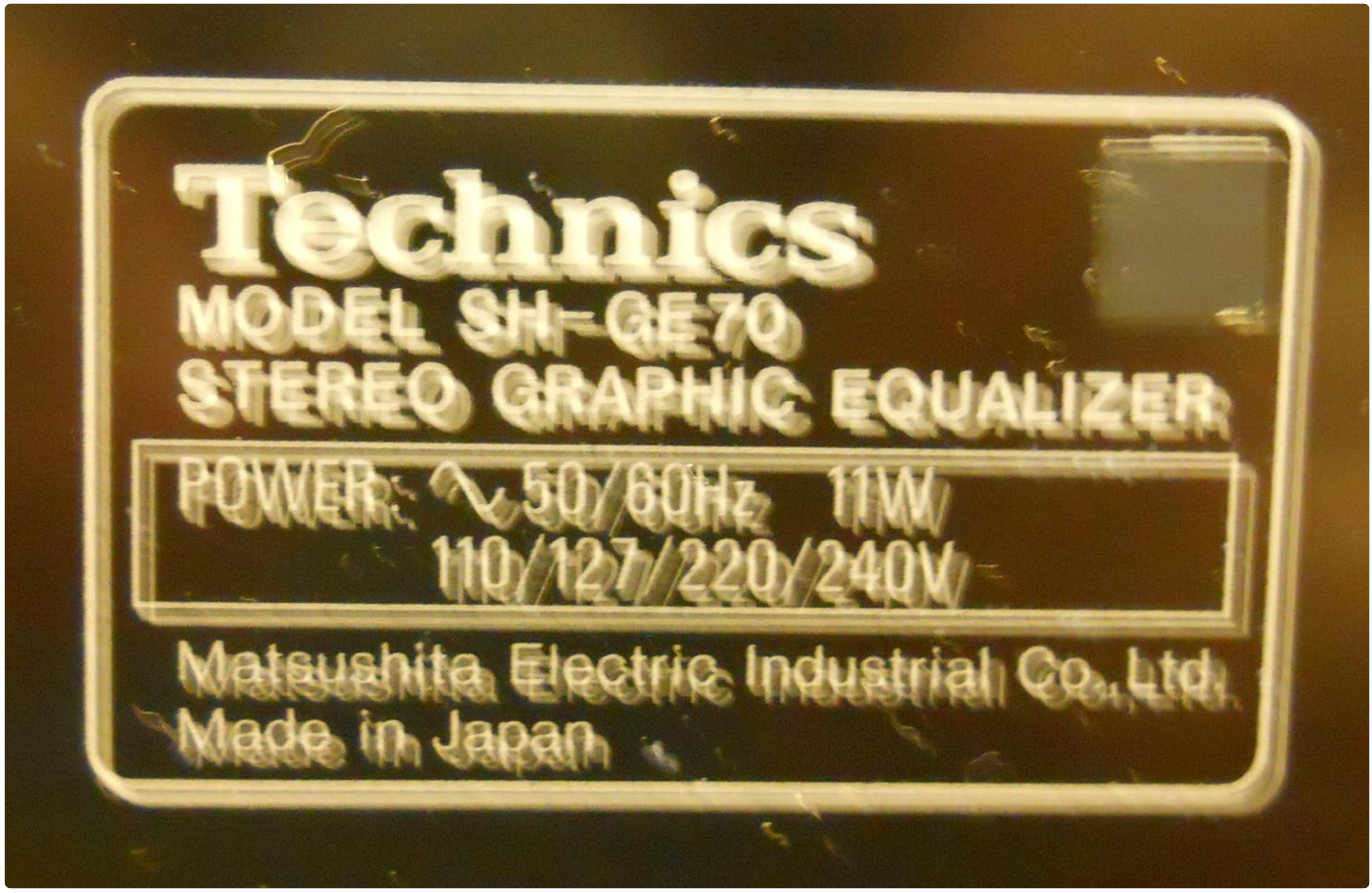


Figure 6: Rear panel with safety warnings. This image shows the caution labels regarding electric shock and the absence of user-serviceable parts.

Troubleshooting

If you experience issues with your Technics SH-GE70, consult the following common troubleshooting steps before seeking professional service.

Problem	Possible Cause	Solution
No power / Unit does not turn on.	Power cord not securely connected. Power outlet not active. Voltage adjustment switch set incorrectly.	Ensure power cord is firmly plugged into the unit and wall outlet. Test the outlet with another device. Verify the "VOLT ADJ" switch on the rear panel matches your local power supply.

Problem	Possible Cause	Solution
No sound or distorted sound.	Incorrect audio cable connections. EQ Defeat (EQ ON/OFF) is active. Input selector set incorrectly. Source component or amplifier issue.	Check all RCA cable connections between the equalizer, amplifier, and source. Ensure they are secure and connected to the correct input/output jacks. Press the **EQ ON/OFF** button to ensure equalization is active if desired. Verify the **INPUT SELECTOR** is set to the correct source. Test other components in your audio chain to isolate the problem.
Spectrum analyzer display not working.	No audio signal input. Display mode setting.	Ensure an audio source is playing and connected correctly. Cycle through **DISPLAY MODE** options to see if it appears in another mode.

If the problem persists after trying these solutions, please contact qualified service personnel. Do not attempt to repair the unit yourself.

Specifications

- **Model Number:** SH-GE70
- **Manufacturer:** Technics (Matsushita Electric Industrial Co., Ltd.)
- **Type:** Stereo Graphic Equalizer
- **Frequency Bands:** 7 bands per channel (63Hz, 160Hz, 400Hz, 1kHz, 2.5kHz, 6.3kHz, 12.5kHz)
- **Boost/Cut Range:** +/- 12dB
- **Memory Presets:** 12
- **Power Requirements:** AC 50/60Hz, 11W (Selectable: 110V, 127V, 220V, 240V)
- **Item Weight:** 6.4 pounds (approx. 2.9 kg)
- **Package Dimensions:** 17 x 10.8 x 4.1 inches (approx. 43.2 x 27.4 x 10.4 cm)
- **ASIN:** B00006I5VW
- **Date First Available:** September 22, 2002

Note: Specifications are subject to change without notice.

Warranty and Support

Warranty Information:

Specific warranty terms for the Technics SH-GE70 may vary based on the region of purchase and the date of acquisition. Please refer to the warranty card included with your original product packaging or consult the retailer from whom you purchased the unit for detailed warranty information.

Customer Support:

For further assistance, technical support, or inquiries regarding service, please visit the official Technics website or

contact their customer support channels. You may also find useful information on the Technics Store on Amazon.

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Example: How do I reset this device or fix this error?

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