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Acoustic Audio by Goldwood WS1005

Acoustic Audio WS1005 Passive Subwoofer Amplifier User Manual

Model: WS1005

INTRODUCTION

This manual provides detailed instructions for the setup, operation, and maintenance of your Acoustic Audio WS1005 Passive Subwoofer Amplifier. This amplifier is designed to power passive subwoofers in various home audio environments, including home theater systems and multi-room audio setups. Please read this manual thoroughly before use to ensure proper installation and optimal performance.

IMPORTANT SAFETY INSTRUCTIONS

- **Read Instructions:** Retain these instructions for future reference.
- **Heed Warnings:** Follow all warnings on the product and in the operating instructions.
- **Cleaning:** Clean only with a dry cloth.
- **Ventilation:** Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- **Heat:** Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- **Power Cord Protection:** Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- **Attachments/Accessories:** Use only attachments/accessories specified by the manufacturer.
- **Servicing:** Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- **Electric Shock:** To reduce the risk of electric shock, do not open the unit. There are no user-serviceable parts inside.

PACKAGE CONTENTS

Verify that all items are present upon unpacking:

- Acoustic Audio WS1005 Passive Subwoofer Amplifier
- Power Adapter

- RCA Cable
- User Manual



Image: The Acoustic Audio WS1005 amplifier, its power adapter, an RCA cable, and the included user manual, laid out on a white surface.

PRODUCT OVERVIEW

Front Panel



Image: The front panel of the Acoustic Audio WS1005 amplifier, featuring a power button, power indicator LED, 'Acoustic AUDIO' branding, a 'Crossover' knob (50Hz-150Hz), and a 'Sub Volume' knob (Min-Max).

- **POWER Button:** Press to turn the amplifier on or off.
- **Power Indicator LED:** Illuminates when the amplifier is powered on.
- **Crossover Knob:** Adjusts the low-pass filter frequency from 50Hz to 150Hz. This determines the upper frequency limit for the subwoofer.
- **Sub Volume Knob:** Controls the output volume level of the subwoofer.

Rear Panel



Image: The rear panel of the Acoustic Audio WS1005 amplifier, showing LFE and RCA inputs, a Normal/LFE switch, raw wire speaker outputs, a fuse holder, and a DC power input.

- **INPUT (LFE / RCA):** Connects to your audio source (e.g., home audio receiver). Use the LFE input for a dedicated subwoofer output from your receiver, or the RCA inputs for a stereo line-level signal.
- **NORMAL / LFE Switch:** Selects the input mode. In LFE mode, the amplifier bypasses its internal crossover, relying on the receiver's crossover. In Normal mode, the amplifier's Crossover knob is active.
- **OUTPUT (Raw Wire Speaker Terminals):** Connects to your passive subwoofer using raw speaker wire. Ensure correct polarity (+ to + and - to -).
- **FUSE 3A / 250V:** Replace only with a fuse of the same type and rating.
- **AC 18V-2200mA:** Power input for the included AC adapter.

SETUP

Follow these steps to connect your WS1005 amplifier to your audio system.

1. **Connect Passive Subwoofer:** Using CL3 rated in-wall certified raw speaker wire, connect your passive subwoofer to the

OUTPUT terminals on the rear of the WS1005 amplifier. Ensure that the positive (+) terminal on the amplifier connects to the positive (+) terminal on the subwoofer, and the negative (-) terminal on the amplifier connects to the negative (-) terminal on the subwoofer.

2. Connect to Audio Source:

- **For LFE Output (Dedicated Subwoofer Output from Receiver):** Connect an RCA cable from your home audio receiver's LFE or Subwoofer Output to the **LFE IN** input on the WS1005. Set the **NORMAL / LFE** switch to LFE.
- **For Stereo Line-Level Output (RCA from Receiver):** Connect an RCA cable from your home audio receiver's stereo line-level outputs (e.g., pre-out) to the **RCA INPUTS (L/R)** on the WS1005. Set the **NORMAL / LFE** switch to NORMAL.

3. **Connect Power:** Plug the included power adapter into the **AC 18V-2200mA** input on the rear of the amplifier, then plug the adapter into a standard wall outlet.

4. **Initial Power On:** Press the **POWER** button on the front panel. The power indicator LED should illuminate.

OPERATING INSTRUCTIONS

Once connected, you can adjust the amplifier's settings for optimal audio performance.

- **Power On/Off:** Use the **POWER** button on the front panel to turn the unit on or off.
- **Sub Volume Adjustment:** Rotate the **Sub Volume** knob to increase or decrease the subwoofer's output level. Start at a low setting and gradually increase to your desired level.
- **Crossover Frequency Adjustment (Normal Mode Only):** If the **NORMAL / LFE** switch is set to NORMAL, rotate the **Crossover** knob to set the upper frequency limit for the subwoofer. This allows you to blend the subwoofer's output seamlessly with your main speakers. If the switch is set to LFE, this knob is bypassed.
- **Input Mode Selection:** Use the **NORMAL / LFE** switch on the rear panel to select the appropriate input mode based on your receiver's output.

MAINTENANCE

To ensure the longevity and proper functioning of your amplifier:

- Keep the unit clean by wiping it with a soft, dry cloth.
- Avoid exposing the amplifier to excessive moisture or direct sunlight.
- Ensure adequate ventilation around the unit to prevent overheating.
- Do not attempt to service the unit yourself. Refer to qualified service personnel for any repairs.

TROUBLESHOOTING

Problem	Possible Cause	Solution
No power / Power LED off	Power adapter not connected; Power outlet not active; Blown fuse.	Ensure power adapter is securely connected and plugged into a working outlet. Check the fuse on the rear panel and replace if necessary with a 3A/250V fuse.
No sound from subwoofer	Incorrect input connection; Subwoofer wires reversed; Volume too low; Incorrect LFE/NORMAL switch setting.	Verify RCA/LFE input cable is connected correctly. Check subwoofer wire polarity. Increase Sub Volume. Ensure LFE/NORMAL switch matches your receiver's output.
Low or weak bass output	Sub Volume too low; Crossover set too low (in NORMAL mode); LFE/NORMAL switch incorrect.	Increase Sub Volume. Adjust Crossover frequency higher (in NORMAL mode). Ensure LFE/NORMAL switch is set correctly.
Popping sound when powering on/off	Normal operational characteristic for some amplifiers.	This may be a normal characteristic. Ensure all connections are secure.

SPECIFICATIONS

Feature	Specification
Model	WS1005
Output Power	200 Watts
Frequency Response	50 – 200 Hz (+/- 3dB)
Output Impedance	4-8 Ohm
Inputs	LFE, RCA (Left/Right)
Outputs	Raw Wire Speaker Terminals
Power Source	Corded Electric (AC 18V-2200mA)
Color	Black
Dimensions (L x W x H)	8.5 x 6 x 2.25 inches
Weight	4.36 pounds
UPC	849155034221

WARRANTY AND SUPPORT

For warranty information or technical support, please contact Acoustic Audio by Goldwood customer service. Refer to your purchase documentation for specific warranty terms and contact details.

Manufacturer: Goldwood Sound, Inc.