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Russound A2100

Russound A2100 2 x 100W Digital Amplifier User Manual

Model: A2100

INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Russound A2100 2 x 100W Digital Amplifier. The A2100 is a high-performance, compact amplifier designed to deliver robust audio in various applications, including larger rooms or outdoor zones. Its versatile design allows for flexible mounting and integration into existing audio systems.

SAFETY INFORMATION

WARNING: To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture. Do not remove the cover. No user-serviceable parts inside. Refer servicing to qualified personnel.

- Read these instructions thoroughly before operating the unit.
- Keep these instructions for future reference.
- Heed all warnings on the product and in the operating instructions.
- Follow all instructions.
- Do not use this apparatus near water.
- Clean only with a dry cloth.
- Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- Only use attachments/accessories specified by the manufacturer.
- Unplug this apparatus during lightning storms or when unused for long periods of time.

PACKAGE CONTENTS

Verify that all items are present in the package:

- Russound A2100 Digital Amplifier
- Power Cord
- Removable Cord Lock
- Rack Mounting Kit (for single or dual unit mounting)
- Instruction Manual (this document)

PRODUCT OVERVIEW

Front Panel



Image: Front and Rear view of the Russound A2100 Digital Amplifier. The front panel features a standby indicator and a power button. The rear panel shows various input/output connections and controls.

- **Standby Indicator:** Illuminates to indicate the amplifier's power status.
- **Power Button:** Toggles the amplifier between standby and operational modes.

Rear Panel Connections and Controls



Image: Detailed view of the Russound A2100 Digital Amplifier's rear panel, showing input/output jacks, speaker terminals, volume control, and power settings.

- **Bridge IN/OUT (RCA):** Line-level audio input and output for daisy-chaining multiple amplifiers or connecting to other audio equipment.
- **Line IN/OUT (RCA):** Main line-level audio input and buffered line output.
- **Volume (Min/Max):** Rotary control for adjusting the output volume.
- **Output (Bridge 8Ω / 4Ω):** Switch to select between bridged 8-ohm operation or standard 4-ohm operation.
- **Turn-On (On / Auto / Trigger):** Switch to select the amplifier's power-on mode.
 - **On:** Amplifier is always on when connected to power.
 - **Auto:** Amplifier turns on automatically when an audio signal is detected.
 - **Trigger:** Amplifier turns on via a 12V trigger signal.
- **12V Trigger IN/OUT:** Connects to other equipment for automated power control.
- **Speaker Out (4/8Ω Class 2 Wiring):** Removable screw-down connectors for speaker wire connection. Supports up to 12 gauge wire.
- **AC Power Inlet:** For connecting the supplied power cord.

SETUP

Placement and Mounting

The A2100 amplifier offers flexible mounting options, including wall mount and rack mount configurations. Ensure adequate ventilation around the unit regardless of mounting method.

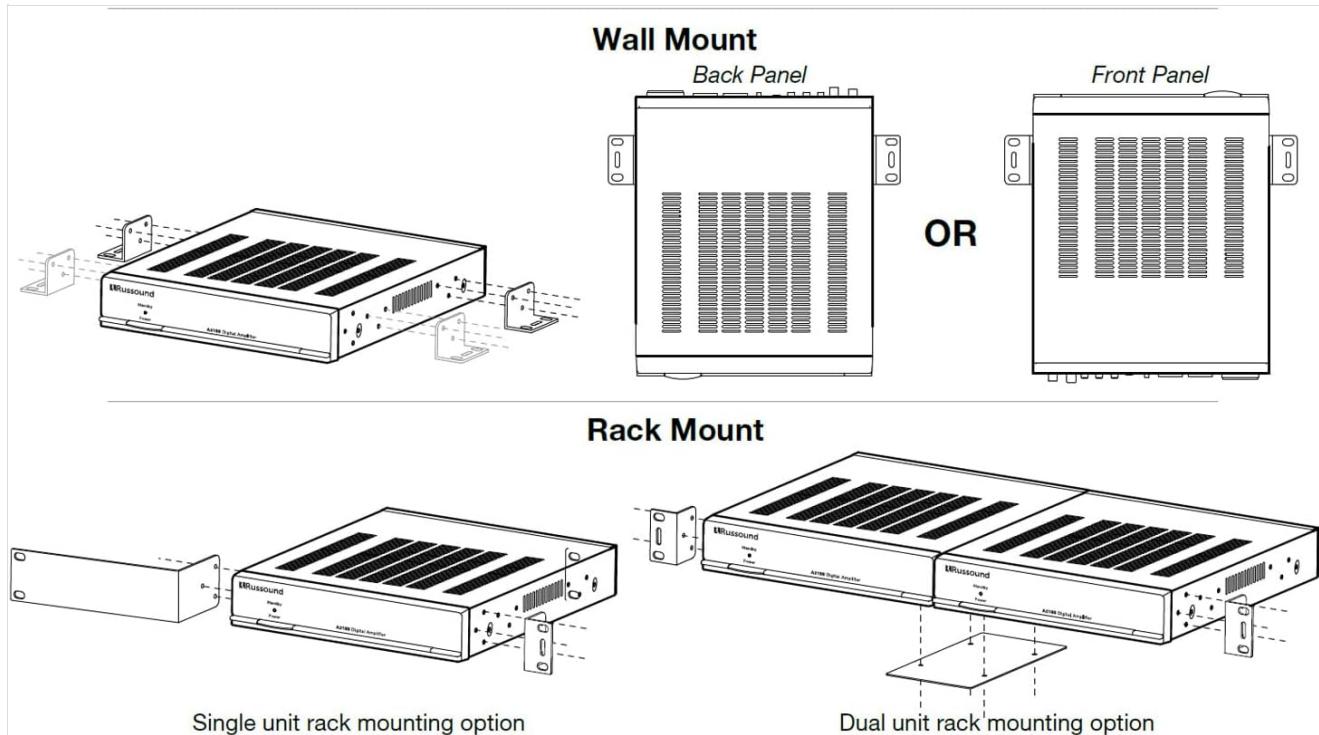


Image: Diagrams illustrating single unit rack mounting, dual unit rack mounting, and wall mounting options for the Russound A2100 Digital Amplifier.

- **Rack Mount:** Use the included rack mounting kit to install the amplifier into a standard equipment rack. The kit supports mounting a single unit or linking two A2100 units together in a 1U space.
- **Wall Mount/Surface Mount:** The amplifier can be mounted to a wall or other flat surface using appropriate hardware (not included, unless specified in the kit). Ensure the mounting surface is sturdy enough to support the amplifier's weight.

Connecting Speakers

1. Ensure the amplifier is powered off and unplugged from the AC outlet.
2. Determine the impedance of your speakers (typically 4 or 8 ohms).
3. If bridging the amplifier for a single 8-ohm speaker, set the "Output" switch to "Bridge 8Ω". For two speakers (stereo), set it to "4Ω".
4. Strip approximately 1/2 inch (12mm) of insulation from the ends of your speaker wires.
5. Connect the speaker wires to the removable screw-down connectors on the rear panel. Observe correct polarity (+ to + and - to -). The connectors support up to 12 gauge wire.
6. For bridged operation, connect the single 8-ohm speaker to the designated bridged terminals (typically L+ and R-). Refer to the diagram on the rear panel.

Connecting Audio Sources

Connect your audio source (e.g., preamplifier, receiver, streaming device) to the "Line IN" RCA jacks on the rear panel using high-quality RCA cables.

If daisy-chaining to another amplifier or audio device, use the "Line OUT" or "Bridge OUT" RCA jacks.

Power Connection

1. Ensure all audio and speaker connections are secure.
2. Connect the supplied power cord to the AC Power Inlet on the rear panel.
3. Secure the power cord with the removable cord lock if desired.
4. Plug the other end of the power cord into a suitable AC power outlet (100V to 240V, 50/60Hz).

OPERATING THE AMPLIFIER

Powering On/Off

Press the Power button on the front panel to toggle the amplifier between standby and operational modes. The Standby indicator will show the current status.

Alternatively, the amplifier can be controlled by the "Turn-On" switch on the rear panel:

- **On:** The amplifier will remain powered on as long as it is connected to an AC power source.
- **Auto:** The amplifier will automatically power on when an audio signal is detected at the input and enter standby mode after a period of no signal.
- **Trigger:** The amplifier will power on when a 12V trigger signal is received at the "12V Trigger IN" port and power off when the signal is removed.

Volume Control

Adjust the "Volume" rotary control on the rear panel to set the desired output level. It is recommended to start with the volume at a lower setting and gradually increase it to prevent sudden loud sounds.

For optimal performance, set the amplifier's volume to a level that allows your primary audio source (e.g., preamplifier) to control the overall system volume effectively.

MAINTENANCE

- **Cleaning:** Disconnect the amplifier from power before cleaning. Use a soft, dry cloth to wipe the exterior surfaces. Do not use liquid cleaners or aerosols.
- **Ventilation:** Ensure that the ventilation openings are not blocked. Proper airflow is crucial for preventing overheating.
- **Storage:** If storing the amplifier for an extended period, disconnect it from power and store it in a cool, dry place away from direct sunlight and extreme temperatures.

TROUBLESHOOTING

Problem	Possible Cause	Solution
No power	Power cord not connected; outlet not active; "Turn-On" switch set incorrectly.	Check power cord connection. Verify outlet functionality. Ensure "Turn-On" switch is set to "On" or "Auto" (with signal) or "Trigger" (with 12V signal).

Problem	Possible Cause	Solution
No sound	Incorrect input selection; speaker wires loose or incorrectly connected; source device not playing; amplifier in standby.	Verify audio source is connected to "Line IN". Check speaker wire connections and polarity. Ensure source device is playing and its volume is up. Confirm amplifier is powered on.
Distorted sound	Volume too high; incorrect speaker impedance setting; faulty speaker or cable.	Reduce volume. Check "Output" switch setting matches speaker impedance. Inspect speakers and cables for damage.
Humming noise	Ground loop; faulty cable; proximity to interference sources.	Ensure all components are on the same electrical circuit. Try different audio cables. Move amplifier away from other electronic devices.

SPECIFICATIONS

- **Output Power:** 100 Watts per channel at 8 ohms (125W at 4 ohms, 225W bridged at 8 ohms)
- **Number of Channels:** 2
- **Amplifier Type:** Class D
- **Voltage:** 100V to 240V AC (automatic switching power supply)
- **Frequency:** 50/60Hz
- **Item Dimensions (L x W x H):** 10.5 x 8.5 x 1.75 inches (26.67 x 21.59 x 4.45 cm)
- **Item Weight:** 4.4 pounds (2 kg)
- **Mounting Type:** Surface Mount, Rack Mount
- **Features:** Buffered line output, 3 modes of operation (always on, auto on, 12V trigger), removable screw-down connectors, removable cord lock, complete rack mounting kit.
- **Compliance:** FCC, UL STD. 60065, CSA STD. C22.2 No. 60065

WARRANTY INFORMATION

Russound products are designed and manufactured to the highest quality standards. For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official Russound website. Keep your purchase receipt as proof of purchase for any warranty claims.

SUPPORT

If you encounter any issues or have questions not covered in this manual, please contact Russound customer support for assistance.

- **Website:** www.russound.com
- Refer to the website for contact details, FAQs, and additional resources.

