

Russound SDB4.1

Russound SDB4.1 Speaker Selector Instruction Manual

Model: SDB4.1

INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Russound SDB4.1 Speaker Selector. The SDB4.1 is designed to distribute audio from up to two amplifiers to four pairs of speakers, featuring individual volume controls and impedance matching for optimal performance.

IMPORTANT SAFETY INFORMATION

- Read all instructions before operating the device.
- Do not expose this appliance to rain or moisture.
- Ensure proper ventilation around the unit.
- Disconnect power before making any connections or adjustments.
- Refer all servicing to qualified service personnel.

PACKAGE CONTENTS

Verify that all items are present:

- Russound SDB4.1 Speaker Selector
- Instruction Manual (this document)
- Printed room labels

PRODUCT OVERVIEW

The Russound SDB4.1 is a high-quality speaker selector designed for multi-room audio distribution. It features dual amplifier inputs and supports up to four pairs of speakers, each with independent volume control. The unit incorporates autoformer-based impedance matching to maintain sound quality and protect

your amplifier.

Rear Panel Connections

The rear panel of the SDB4.1 provides all necessary connections for amplifiers and speakers. It includes color-coded detachable snap connectors for easy wire termination.



Figure 1: Rear view of the Russound SDB4.1 Speaker Selector. This image displays the input terminals for Amplifier A and Amplifier B, along with output terminals for Speaker 1, Speaker 2, Speaker 3, and Speaker 4. Each terminal block is labeled with L+ L- R+ R- for stereo connections. The unit also shows "Russound SDB4.1 NEWMARKET, NH USA" and "DESIGNED IN USA MADE IN CHINA" markings.

- **AMP A / AMP B Inputs:** Connect your amplifiers here. Each input supports Left (+) and (-), and Right (+) and (-) channels.
- **SPEAKER 1-4 Outputs:** Connect your speaker pairs here. Each output supports Left (+) and (-), and Right (+) and (-) channels.

SETUP

1. Placement

Place the SDB4.1 in a well-ventilated area, away from heat sources and direct sunlight. Ensure there is sufficient space around the unit for air circulation and cable management.

2. Wiring Connections

Before making any connections, ensure your amplifier(s) and the SDB4.1 are powered off and unplugged from the mains.

1. **Connect Speakers:** For each speaker pair, connect the speaker wires to the corresponding SPEAKER output terminals (SPEAKER 1, SPEAKER 2, etc.) on the SDB4.1. Ensure correct polarity (Left+, Left-, Right+, Right-). The detachable snap connectors are color-coded for ease of use.
2. **Connect Amplifier(s):** Connect the speaker outputs from your amplifier(s) to the AMP A and/or AMP B input terminals on the SDB4.1. If using a single amplifier, connect it to AMP A. If using two amplifiers, connect the first to AMP A and the second to AMP B. Maintain correct polarity.

3. Impedance Matching Settings

The SDB4.1 features selectable impedance matching to accommodate various speaker configurations (4-ohm or 8-ohm speakers) and protect your amplifier. The impedance matching setting is typically located inside the unit. It is crucial to verify and adjust this setting according to your speaker setup to prevent

damage to your amplifier. Consult the internal diagrams or markings for the correct jumper or switch positions for 2X, 4X, or 8X impedance matching. The factory default setting may vary, so always confirm it before operation.

OPERATION

1. Power On

Once all connections are secure, plug in and power on your amplifier(s) and then the SDB4.1.

2. Selecting an Amplifier Source

The SDB4.1 allows you to select between Amplifier A and Amplifier B for each speaker zone. Use the corresponding selector buttons on the front panel to choose the desired amplifier for each room.

3. Activating Speaker Zones

Each speaker zone has an individual button on the front panel. Press the button for the desired speaker zone to turn it on or off. Ensure the buttons are fully engaged when pressed.

4. Adjusting Volume

Each speaker zone is equipped with a rotary volume control knob. Turn the knob clockwise to increase the volume and counter-clockwise to decrease it. The volume controls have twelve detent positions for precise adjustment.

MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the unit. Do not use liquid cleaners or aerosol sprays.
- **Ventilation:** Ensure that the ventilation openings are not blocked.
- **Connections:** Periodically check all wiring connections to ensure they are secure.

TROUBLESHOOTING

Problem	Possible Cause	Solution
No sound from speakers.	Amplifier not powered on. Speaker zone not activated. Incorrect wiring. Volume turned down.	Ensure amplifier is on. Press the corresponding speaker zone button. Check all speaker and amplifier connections for correct polarity and secure fit. Increase volume using the rotary knob.
Distorted or poor sound quality.	Incorrect impedance matching setting. Loose connections. Overdriving amplifier/speakers.	Verify the internal impedance matching setting matches your speaker configuration. Check all wiring connections. Reduce amplifier volume or SDB4.1 zone volume.
Speaker zone button stuck.	Mechanical issue.	Gently try to free the button. If it remains stuck, contact Russound customer support for assistance.

SPECIFICATIONS

Model	SDB4.1
Speaker Pairs Supported	4
Amplifier Inputs	2 (AMP A, AMP B)
Power Handling	Up to 200W per channel RMS continuous
Impedance Matching	Selectable (accommodates 4- or 8-ohm speakers)
Volume Controls	Individual per zone, 12 detent positions
Dimensions (W x H x D)	18.43 x 4.76 x 9.65 inches (Product dimensions)
Item Weight	8.82 pounds
Color	Black
Connections	Detachable snap connectors for bare speaker wire (L+ L- R+ R-)
Manufacturer	Russound

Note: Specifications are subject to change without notice.

WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the official Russound website or contact their customer service department. Keep your purchase receipt as proof of purchase for warranty claims.

Russound Contact Information:

- Website: www.russound.com
- Refer to the website for current contact details and support resources.