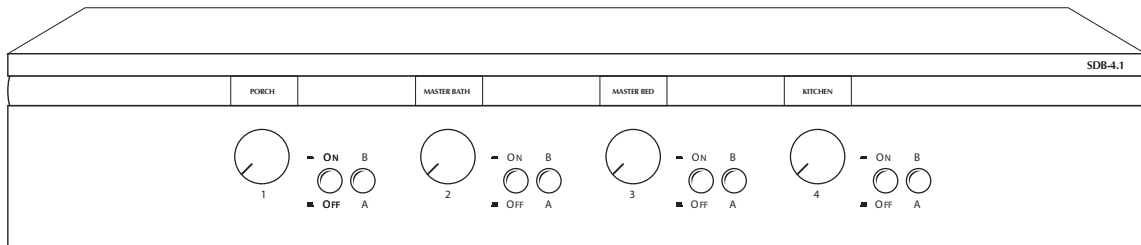




LANDSCAPE VIBRATIONS



HI-FIDELITY SIGHT & SOUND



LV-SB4

Dual Source Speaker Selectors
Installation Manual

PRODUCT DESCRIPTION / CONNECTIONS

Description

The LV-SB4 are high-power, dual-source, autoformer-based speaker selectors with individual volume controls for 4 areas/rooms. Dual-source operation means either one of two different amplifiers/receivers can be chosen to power selected speakers independently. For example, you can choose to listen to jazz music in a couple of rooms and classical music in all the others. Each room has its own input selector, volume control and on/off switch, located on the front of the unit. The LV-SB4 speaker selectors work with all speakers rated from 4 to 8 ohms, and amplifiers rated for 4 to 8 ohm loads.

Setting the Impedance

The impedance of the autoformers in LV-SB4 speaker selectors is set at the factory to be proper for most applications. However, if certain applications require changing the impedance setting, simply remove the cover of the unit and re-position the jumpers on the autoformers to the necessary impedance-matching setting. Landscape Vibrations LV-SB4 Speaker Selectors autoformers can be set to impedance-matching settings of 4X.

1. Determine the amplifier's minimum impedance. Consult the individual product specifications or the back panel of the amplifier near the speaker terminals. AC impedance is measured in ohms.
2. Identify the correct impedance-matching chart below according to your amplifier's minimum impedance: either for a 4 ohm amplifier or an 8 ohm amplifier. If your amplifier is 6 ohm stable, use the 8 ohm chart.
3. Determine the impedance for each pair of speakers (see its manual).
4. Determine the total number of 4 ohm pairs of speakers (rows on charts).
5. Determine the total number of 8 ohm pairs of speakers (columns on charts).
6. Use the appropriate row and column to determine jumper settings.

Connections

All LV-SB4 models have 4-pole screw down removable terminals for speaker and amplifier connections. These accept wire up to 12 gauge.

Remove the terminal by firmly pulling it out of its 4-pole connector. Strip about 3/8" of insulation from the ends of all wires to be connected. If necessary, twist the exposed conductor to insure that no loose strands exist. Insert the wire ends into the screw down connector, being careful to observe proper channel and polarity. Tighten the screws on the connectors. Connect the amplifier(s) and each speaker pair to the appropriate connector.

Speaker connections can support multiple speaker pairs wired in parallel or series, provided their combined impedance is a minimum of 4 ohms.

Setting System Volume

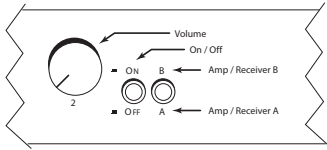
It is important to properly adjust an impedance-matching system to avoid distortion or DC clipping (DC voltage will be produced from an amplifier that is overworked or that has an improper load). These can cause an amplifier/receiver to go into protection, and can cause autoformers on volume controls to heat up, damaging system components. To set up the system, the amplifier/receiver volume should be at its lowest setting, and the selector volume control should be at the highest setting. Slowly adjust the amplifier/receiver volume to a level that is acceptable for the amplifier to produce without clipping.

Operation

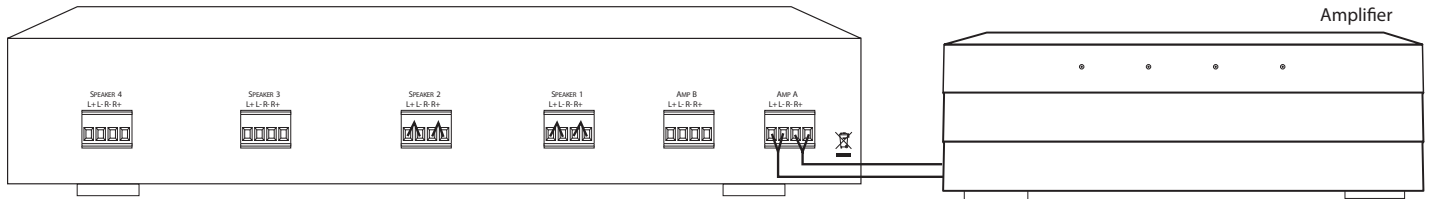
To operate the LV-SB4 speaker selector, simply power the amplifiers and select a source for each amplifier. At the speaker selector, turn on the selected pair of speakers and select AMP A or AMP B. Set the volume by rotating the control clockwise to increase volume or counter-clockwise to decrease volume. The LV-SB4 speaker selectors allows operation of any combination of speakers selected to either amplifier A or B.

		8-ohm Pairs								
		0	1	2	3	4	5	6	7	8
4-ohm Pairs	0	-	1X	2X	4X	4X	8X	8X	8X	8X
	1	2X	4X	4X	8X	8X	8X	8X	8X	
	2	4X	8X	8X	8X	8X				
	3	8X	8X	8X						
	4	8X								

		8-ohm Pairs																	
		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
4-ohm Pairs	0	-	1X	1X	2X	2X	4X	4X	4X	4X	8X	8X	8X	8X	8X	8X	8X	8X	
	1	1X	2X	2X	4X	4X	4X	4X	8X	8X	8X	8X	8X	8X	8X	8X			
	2	2X	4X	4X	4X	4X	8X	8X	8X	8X	8X	8X	8X	8X					
	3	4X	4X	4X	8X	8X	8X	8X	8X	8X	8X	8X							
	4	4X	8X	8X	8X	8X	8X	8X	8X	8X									
	5	8X	8X	8X	8X	8X	8X	8X											
	6	8X	8X	8X	8X	8X													
	7	8X	8X	8X															
	8	8X																	



LV-SB4 Speaker Selector
Front detail of dual-source
speaker control



LV-SB4 speaker selector diagram showing connection of speaker and amplifier (Not to scale)

Technical Specifications

LV-SB4

- Power : 200 W per channel RMS continuous
400 W per channel average
600 W per channel peak
- Volume Control: 42 dB attenuation, 12 positions
- Impedance Matching: Russound Ultra-Match™ Autoformers
- Wire Size: up to 12 gauge wire
- Dimensions: 17.0" W x 3.0" H x 6.25" D
(43.2 x 7.6 x 15.9 cm)
- Weight: 9 lb (4.05 kg)

Warranty

The Landscape Vibrations LV-SB4 is fully guaranteed against all defects in materials and workmanship for ten (10) years from the date of purchase. During this period, Landscape Vibrations will replace any defective parts and correct any defect in workmanship without charge for either parts or labor.

For this warranty to apply, the unit must be installed and used according to its written instructions. If service is necessary, it must be performed by LV. The unit must be returned to LV at the owner's expense and with prior written permission. Accidental damage and shipping damage are not considered defects, nor is damage resulting from abuse or from servicing by an agency or person not specifically authorized in writing by Landscape Vibrations

This Warranty does not cover:

- Damage caused by abuse, accident, misuse, negligence, or improper installation or operation
- Power surges and lightning strikes
- Normal wear and maintenance
- Products that have been altered or modified
- Any product whose identifying number, decal, serial number, etc. has been altered, defaced or removed.

LV sells products only through authorized Dealers and Distributors to ensure that customers obtain proper support and service. Any LV product purchased from an unauthorized dealer or other source, including retailers, mail order sellers and online sellers will not be honored or serviced under existing LV warranty policy. Any sale of products by an unauthorized source or other manner not authorized by LV shall void the warranty on the applicable product.

Damage to or destruction of components due to application of excessive power voids the warranty on those parts. In these cases, repairs will be made on the basis of the retail value of the parts and labor. To return for repairs, the unit must be shipped to LV at the owner's expense, along with a note explaining the nature of service required. Be sure to pack the unit in a corrugated container with at least three (3) inches of resilient material to protect the unit from damage in transit.

Before returning a unit for repair, call LV at 800.414.5109 for a Return Authorization number. Write this number on the shipping label and ship to: **Landscape Vibrations.**

Due to continual efforts to improve product quality as new technology and techniques become available, Landscape Vibrations reserves the right to revise system specifications without notice.



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