

Russound
A/V DISTRIBUTION & CONTROL SYSTEMS

5 Forbes Rd. Newmarket, NH 03857
☎ 603.659.5170 • Fax 603.659.5388
e-mail: tech@russound.com

*the right
connection*

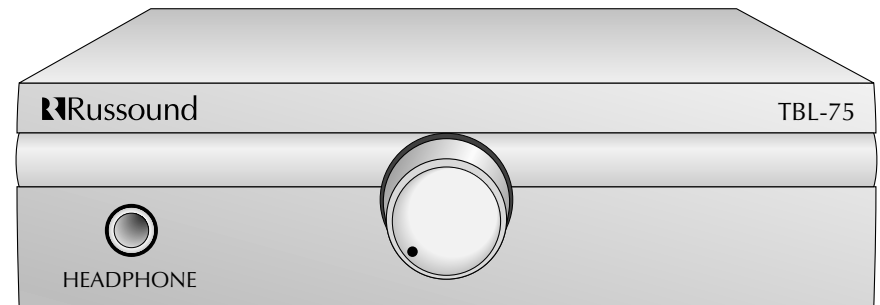
Come visit us at:

www.russound.com

TBL-75

Table-Top Volume Control

Instruction Manual



Introduction

The TBL-75 Stereo Volume Control is a free-standing table-top stereo volume control with a front panel headphone jack and built-in impedance-matching capabilities. It connects between the speaker-level output of an amplifier or receiver, speaker selector, etc., and a pair of speakers. The application of the TBL-75 is to adjust the volume of the connected speakers. The TBL-75 adjusts the volume of the speakers connected to it by adjusting the signal from the amplifier to the speakers. All Russound volume controls are manufactured using a high-quality autoformer design. Autoformers provide excellent frequency response and efficient use of amplifier power.

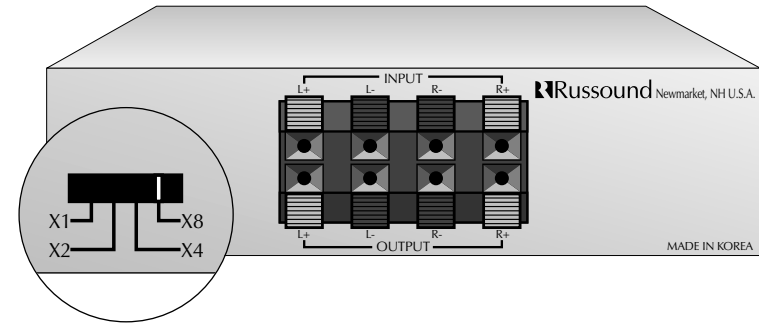
Type of Speaker Wire

For most applications, we recommend you use 16 or 14 gauge, stranded copper speaker wire for the TBL-75 volume control. For wire runs longer than 100 feet, 14 gauge wire is recommended. Do not use wire that is larger than 14 gauge, as it may not fit into the connector on the TBL-75. Never use solid or aluminum electrical wire. When running speaker wires inside the walls, most states and municipalities in the U.S. specify that you must use a speaker cable with a minimum fire rating of "CL-2" or "CL-3" Consult your Russound dealer or electrician. Russound offers "CL-3" rated speaker cable, which is multi-stranded and enclosed in temperature-resistant PVC jackets specifically designed for this application.

TBL-75 Table-Top Stereo Volume Control

The Russound TBL-75 volume control is a combination of a standard and impedance-matching control. When used with an impedance-matching speaker selector, the TBL-75 volume control should be set in the X1 position. The impedance-matching switch is located on the back of the chassis of the TBL-75. In this position, the speaker selector is providing the impedance matching and protection. When there is no impedance-matching speaker selector in the system, the impedance-matching switch must be set in a position that correctly multiplies the impedance of the system to a level that is equal to or greater than the impedance of the amplifier. This will protect the amplifier from damage. Impedance-matching switch settings can be determined by following the steps below.

Setting the Impedance Switch



1. Determine the minimum impedance capability of the amplifier. Normally, this information can be found near the speaker output terminals on the back of the amplifier (look for a measurement in Ohms Ω).
WRITE THE MINIMUM IMPEDANCE HERE: _____
2. Determine the impedance of the speakers. Most speakers have this information printed on the back near the speaker terminals. Most speakers are 4Ω (4 Ohm) or 8Ω (8 Ohm).
WRITE THE IMPEDANCE HERE: _____
NOTE: If you are using speakers of different impedances, you need to determine the average or common impedance. For example, a pair of 4Ω speakers can be considered 2 pair of 8Ω speakers.
3. Count the number of pairs of speakers connected to the amplifier.
WRITE THE NUMBER OF PAIRS HERE: _____
4. By dividing the impedance of the speakers (step #2) by the number of pairs of speakers (step #3), you can determine the system impedance.
EXAMPLE: 8Ω speakers \div 4 pair of speakers = 2Ω system impedance.
5. Determine the proper impedance-matching setting by dividing the amplifier impedance (step 1) by the system impedance (step 4). Note: if the resulting number is between 2 and 4, use X4; if it

is between 4 and 8, use X8; if it is greater than 8, reduce the number of pairs of speakers.

EXAMPLE: 8Ω amplifier impedance \div 3Ω system impedance = 2.7 impedance-matching switch setting. Because 2.7 is between 2 and 4, use the X4 switch setting.

X1 setting: Use this setting only when the TBL-75 volume control is used with an impedance-matching speaker selector. The X2, X4 and X8 settings are used when you are not using an impedance-matching selector. Now that you have determined the proper switch settings, set all the volume controls in the system to the same setting (see diagrams opposite).

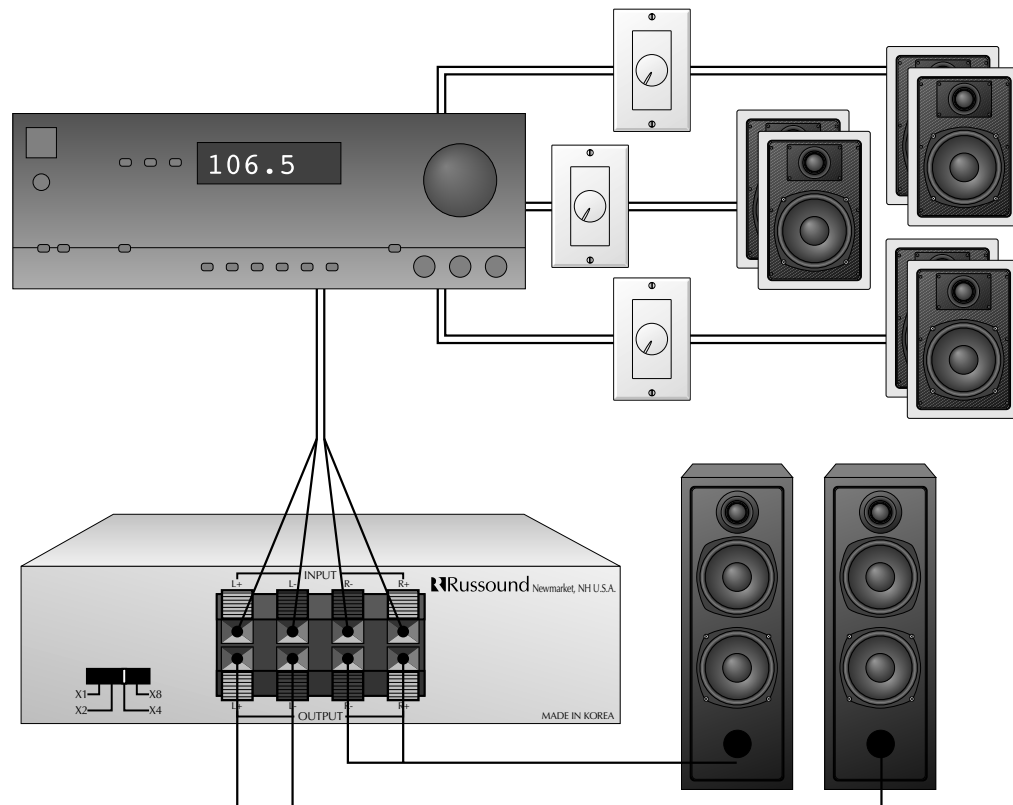
IMPORTANT: If you are unsure of any of the installation procedures, the TBL-75 volume control should be installed by a professional custom installer.

Installation

1. Strip 1/8" of insulation from the ends of all the wires that will be connected to the TBL-75 volume control. If necessary twist or solder the ends to keep from fraying and shorting to the other wires. **CAUTION:** Do not reverse the input and the output connections.
2. Connect the leads from the amplifier or speaker selector to the connector labeled "input". The wires should stay consistent, left+ of the amplifier to the left+ input of the volume control, observing polarity and identification.
3. As outlined in step #2, connect the speaker wires to the connector labeled "output".

Operation

1. Make sure the amplifier or receiver is OFF and set the volume to minimum.
2. Set the TBL-75 volume control to maximum (fully clockwise).
3. If you are using a Russound speaker selector system, locate the On / Off button which corresponds to the speaker pair you wish to play. Set it to the On position.
4. Turn on the amplifier or receiver and select a source such as a CD player.



5. Slowly turn up the amplifier or receiver volume and set it to a comfortable listening level. Be careful not to overdrive the amplifier. If the sound becomes distorted, you have reached the limit of the amplifier's volume capability and you should quickly reduce the volume to avoid damaging the amplifier. Note: 12 o'clock on most receivers is full volume.
6. Adjust the volume of the speakers to the desired listening level using the TBL-75 volume control.
7. You can turn off the speakers in the room by turning the knob on the TBL-75 volume control completely counter-clockwise, or by pressing the corresponding On/Off button on your speaker selector.

Specifications

Power Handling: 126 Watts /ch. power handling,
42 Watts /ch. RMS.

of steps: 12 steps, including "Off "

Total Attenuation: 43dB

Frequency response: 20-20kHz, +1 / -.5dB at rated power.

Impedance multipliers: X1, X2, X4 and X8.

- Features:
- Front panel ¼" headphone jac
 - Spring-loaded push terminal wire connectors.
 - 2 channel stereo control.
 - Can be used with 4Ω or 8Ω speakers.
 - Up to 16 pair of 8Ω speakers can be connected to a 4Ω amplifier.

Terminals: Accommodate up to 14 gauge wire.

Dimensions: 6"W x 6 1/2"D x 1 7/8"H
(15.2cm x 16.5cm x 4.8cm)

Weight: 2.5 lb. (1.14kg.)

Warranty

This Russound volume control is fully guaranteed against all defects in materials and workmanship as long as the original purchaser and user of the volume control owns the unit. During the warranty period, Russound, at its option, will replace or repair any defective part and correct any defect in workmanship without charge for parts or labor. For this warranty to apply, the unit must be installed and used in accordance to its written instructions. If necessary, repairs must be performed by Russound. The unit must be returned to Russound at the owner's expense and with prior written permission of Russound. Accidental damage and shipping damage are not considered defects, nor is damage resulting from abuse, or from servicing performed by an agent or person not specifically authorized in writing by Russound. Damage to or destruction of components due to application of excessive power voids the warranty on those parts. Repairs to components damaged or destroyed due to application of excessive power will be made by charging the owner the retail value of the parts and labor for the repair. To return items for repairs, the unit must be shipped to Russound at the owner's expense, along with a written explanation of the nature of the service required. The unit must be packed in a corrugated container with at least 3 inches of resilient material to protect the unit from damage in transit. Russound reserves the right to request proof of purchase. Except to the extent prohibited by applicable law, no other warranties, whether expressed or implied, other than the express warranties stated herein, shall apply to units sold to the purchaser. Russound shall not be liable for any implied warranty of merchantability or fitness for a particular purpose to any person other than the original purchaser and user. Under no circumstances shall Russound be liable for property damage, economic loss or any consequential damages sustained in connection with the purchase and use of its products. Some states do not allow limitations on how long an implied warranty lasts, or do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you. Russound neither assumes nor authorizes any representative or other person to assume for it any obligation or liability other than such as is expressly set forth herein. This warranty gives you specific legal rights, and you may also have other rights which vary, from state to state.