

MODEL
SVL-1



SVL-1

SPEAKER-LEVEL VOLUME CONTROL SYSTEM



INSTALLATION & OPERATION GUIDE

SVL-1

Speaker Level
Volume Control

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Introduction

The SVL-1 is a table top volume control for speakers. It connects between the speaker-level output of an amplifier, speaker selector, etc. and a pair of speakers.

A perfect application for the SVL-1 is adjusting the volume of remotely located speakers. The SVL-1 adjusts the volume of speakers connected to it by attenuating the amplifier signal. *Niles volume controls use autoformers instead of L-pads for the volume controlling element. This assures minimal internal power dissipation with virtually no power wasted as heat.*



Features and Benefits

The SVL-1 offers a number of improvements over other volume controls:

- The SVL-1 uses a 12 position control, which is superior to 10 position designs. You get a broader range of adjustment—there are 10 steps of attenuation instead of 8. Steps 11 - 6 attenuate -3 dB per step; steps 5-2 are -6 dB per step. Step 12 is "full-on" and step 1 is "full-off".
- Greater dynamic range—you get 42 dB of total attenuation instead of the typical 20 or 30 dB.
- POP-FREE switching between all steps.
- 100% tested, electronically and acoustically, for frequency response, distortion and power handling.
- Pre-printed Room Labels are included for easy identification of the SVL-1's volume control.
- Spring-loaded push terminal connectors accommodate up to 14 gauge wire or "pins", making the SVL-1 compatible with most "high definition" speaker cables.
- Only 8 1/2" wide. Matches the width of 17" components when combined with another Niles 1/2-width product.

TECH SUPPORT HOTLINE

If you have questions regarding the operation of the Niles SVL-1, contact your local Niles dealer or Niles Customer Service at 1-800-289-4434.

- Printed circuit board design assures high reliability.
- Isolated left and right channel grounds make it safe for use with any amplifier.
- May be used with 4, 6, or 8-ohm speaker systems.
- Ideal for both home and commercial sound installations.
- Only a wire stripper is required for installation.
- Power handling: 60 watts/channel continuous music power.
- Frequency response: 20 Hz to 20 kHz ± 1.2 dB.
- Ten year parts and labor warranty.
- Proudly made in the USA.

Installation Considerations

SVL-1 Power Handling

The SVL-1 is designed for use with a receiver or amplifier having a maximum power output of 100 watts per channel at 8 ohms. Damage caused by the use of a higher-power receiver or amplifier will void the warranty. Consult your Niles dealer, or receiver/amplifier manufacturer, if you are uncertain about the power rating of your receiver or amplifier.

IMPORTANT: DO NOT USE THE SVL-1 WITH AMPS OR RECEIVERS RATED AT MORE THAN 100 WATTS PER CHANNEL RMS AT 8 OHMS.

Type of Speaker Wire

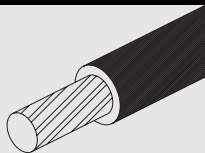
For most applications, we recommend you use 16 or 18 gauge, stranded copper speaker wire for the SVL-1 connections. For wiring runs longer than 80 feet, 14 gauge wire is recommended. Using speaker wire larger than 14 gauge for the SVL-1 connections is not recommended—the wire may not fit into the connectors. Never use solid-core, aluminum, or "Romex" type wire with the SVL-1. When running speaker wires inside walls, most states and municipalities in the U.S. specify that you must use a special type of speaker wire. Usually, the requirement is that the wire has a specific "CL" fire rating, such as "CL-2" or "CL-3". Consult your Niles deal-

TOOLS REQUIRED

- Wire Stripper

IMPORTANT

DO NOT use the SVL-1 with amps or receivers rated at more than 100 watts per channel RMS at 8 ohms.

"TECH TIP"

Wire size is expressed by its AWG (American Wire Gauge) number. The lower the AWG number, the larger the wire, i.e., 12 AWG wire is physically larger than 14 AWG.

er, building contractor, or local building and inspection department if unsure about which type of wire is best for your application.

Avoiding Interference

Speaker wires can act as an "antenna" for electrical noise. Locating speaker wires too close to a light dimmer or switch may cause a "buzzing" or "popping" sound to be heard through the speakers. If you must locate the SVL-1 wiring near electrical devices, route the speaker wires several feet away from the electrical wiring.

SVL-1 Mounting Location

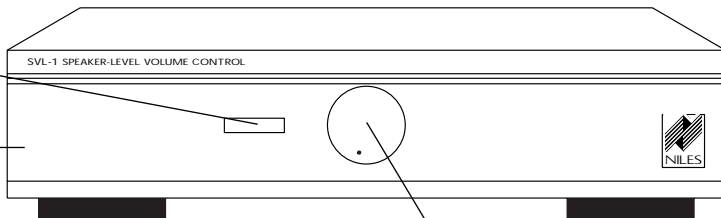
Convenient mounting locations for the SVL-1 are:

- With other stereo components
- Near a desk
- At your bedside
- Close to a telephone

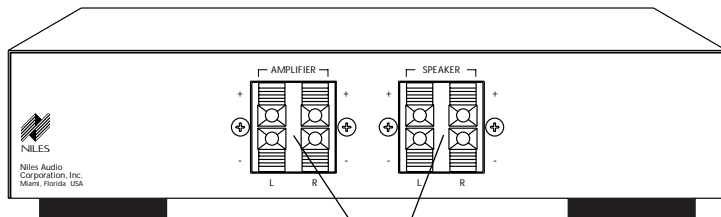
S P E A K E R - L E V E L V O L U M E C O N T R O L

Recessed area for custom room labels.

Attractive low-profile design.

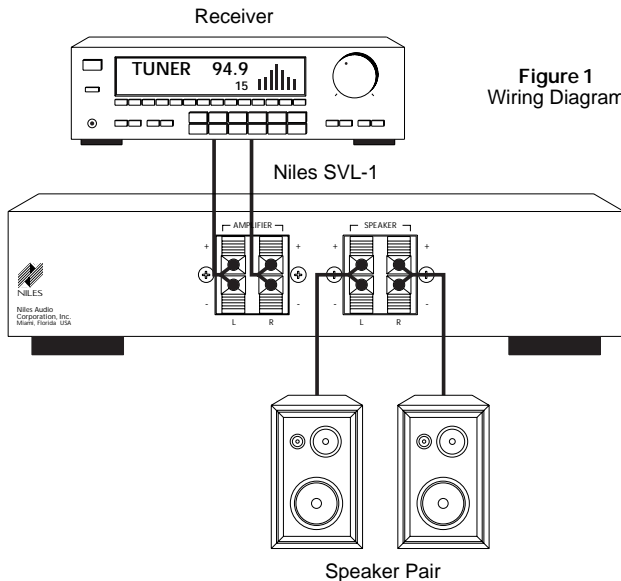


12 position volume control provides greater attenuation than conventional 10 position designs.



Installation

1. Select a convenient location for the SVL-1.
2. Run all the necessary wiring to the SVL-1. Label the wires for future reference. See (Figure 1).



3. Make the connections to the SVL-1. Strip 3/8" of insulation from the end of each wire. Tightly twist the end of each wire until there are no frayed ends. Insert each wire into the appropriate hole on the spring-loaded connector terminals. Be certain that proper phasing is observed—connect the positive terminals on the SVL-1 to the positive terminals on the amplifier and speakers and the negative terminals on the SVL-1 to the negative terminals on the amplifier and speakers. See (Figure 2).

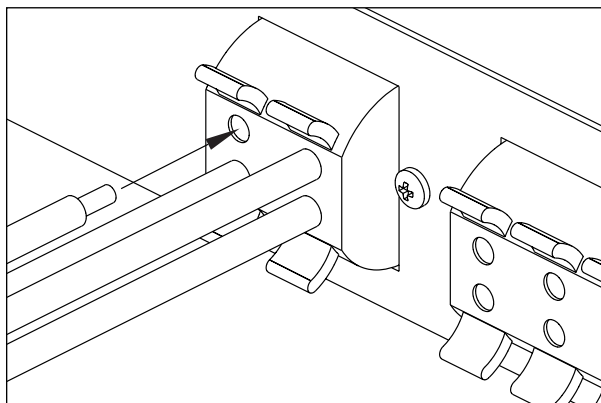


Figure 2
Connecting the
Wires

The inputs of the SVL-1 are the connector terminals labeled "AMPLIFIER". The outputs are the connector terminals labeled "SPEAKERS". Be sure not to reverse these connections or the SVL-1 will not function properly.

4. Locate the pre-printed Room Labels. Affix the appropriate label to the recessed area next to the knob on the SVL-1.

Operation

1. Make sure the amplifier or receiver power is OFF and set the volume to minimum.
2. Set the SVL-1 volume to maximum (fully clockwise).
3. If you are using a Niles speaker selection 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 the tuner or CD player.
5. Slowly turn up the amplifier or receiver volume and set it to a comfortable (not maximum) listening level. Be careful not to overdrive or "clip" your amplifier. If the sound becomes muddy or distorted, you have reached the limit of your amplifier's volume capability and should quickly reduce the volume to avoid damaging your speakers.

6. Using the knob on the front of the SVL-1, adjust the volume of the speakers to the desired listening level.

7. You can turn off the speakers by turning the knob on the SVL-1 fully counter-clockwise, or by pressing the ON/OFF button on your speaker selector.

Balancing Speaker Volume

The volume control on your receiver or amplifier serves as the "master" volume for all speaker pairs connected.

The volume level of the speakers may vary from room to room. This is caused by several factors. Two lesser factors are the size of the speaker and its efficiency. The largest factor is the physical size of the room.

The best way to balance speaker volume is to equip each of the speaker pairs in your system with a Niles volume control. The controls allow you to adjust the volume of each speaker pair individually. If all the speaker pairs in your system are equipped with Niles volume controls, you can leave the amplifier or receiver volume set at one position and use the Niles controls exclusively.

SPECIFICATIONS

Audio Power Handling

60 Watts/channel
continuous music
power

Mounting

Table-top component

Wiring Requirements

Individual runs of
2-conductor speaker
wire. Connectors
accommodate wire
sizes 14-22 gauge
(16 gauge
recommended)

Overall Dimensions

8 1/2" wide x 2" high
x 7 1/4" deep

Weight

2 1/4 lbs.



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