

STEREO VOLUME CONTROL

MODELS: SVC-101: 25 Watts RMS power / 75 Watts Average Music power / 150 Watts Peak Music power
SVC-102: 50 Watts RMS power / 150 Watts Average Music power / 300 Watts Peak Music power

NuTone two channel stereo volume controls SVC-101 and SVC-102 are designed to be used with the NuTone radio intercom Master station such as IM-3303 or IM-4406 as well as any standard 8 Ohm stereo amplifier.

INSTALLATION

The amplifier should be turned off before the installation is begun. Also, the volume and tone controls should be set to their minimum position.

For distances up to 20 feet from the music source, (amplifier), 22 AWG wire such as IV-2 can be used. For distances up to 100 feet, 18 AWG wire such as S-143 could be used. For distances greater than 100 feet, 16 AWG wire should be used.

Refer to Table 1 for choosing proper amplifier power and speaker loads for a particular installation. In this table, the first column shows the possible 8 Ohm stereo or mono audio amplifier power rating and the Mono IM-3303 and IM-4406 Radio Intercom Master Stations which can be used with the stereo volume controls. The volume controls are not designed to be used with 4 Ohm stereo/mono audio amplifiers. The second and third columns show the total number of various speaker(s) per channel that can be connected through the 75 Watt SVC-101 Volume Control to a particular amplifier power rating in a stereo or mono system. Columns four and five show the total number of speaker(s) which can be connected to the 150 Watt SVC-102 Volume Control per channel in a stereo application. For example, if you have a 75 watt, 8 Ohm stereo amplifier, then, as per column two, you can connect *one* 8 Ohm stereo amplifier per channel through SVC-101. Also, as per column three, you can connect *one, two or three*, 25 Ohm speaker(s) such as IS-903, IS-905, IS-920, IS-921, or IS-930, per channel to the same amplifier.

If more than one 25 Ohm speaker is to be connected to the volume control, they can be wired in parallel. Although series connection is also possible, it is not advisable because in case one speaker connection is open or the speaker is dead, the entire system will be dead.

Strip about 1" of the wire insulation from each speaker wire. Connect positive wires together using wire nuts (not supplied). Then, connect negative wires together. Insert the wires into the appropriate terminals of the terminal block on the Stereo Volume Control.

Note that only *one* 900 Series 25 Ohm Music Speaker, such as IS-903, can be connected to either the IM-3303 or the IM-4406 Master Station. The music speaker takes the place of the intercom speaker and can be used for music reproduction only.

Refer to Table 1. The same analogy holds when using the 120 Watt SVC-102 Stereo Volume Control. As shown in column four, only *one* 8 Ohm speaker can be connected per channel for a particular amplifier. As per column five, *one, two or three* 25 Ohm speaker(s) can be connected per channel in parallel as before.

Figure 1 shows a typical installation in which a NuTone Radio Intercom Master station such as the IM-4406 or an 8 Ohm stereo amplifier is connected to speaker(s).

Figure 2 shows the rear view of the volume control. Wire connection should be made as follows:

STEREO APPLICATION

To INPUT side of the volume control:

The four wires (two wires per channel) from the stereo amplifier should be connected to RIGHT and LEFT, PLUS (+) and MINUS (-) terminals on the volume control.

To OUTPUT side of the volume control:

A 2-conductor wire should be connected to PLUS (+) AND MINUS (-) terminals and then to the RIGHT speaker. Same procedure should be followed for LEFT speaker using LEFT (+) and MINUS (-) OUTPUTS.

MONO APPLICATION

In a mono application, such as when using the IM-4406, only one set of terminals may be used.

If multiple speakers are to be connected to a channel (please refer to Table 1), they can be terminated at the volume control using wire nuts (not supplied), as explained above.

MOUNTING

The volume control should be mounted on a single gang standard electrical box about 48" from the floor. The volume control and the decorative plate are packed separately in the carton. The incoming wires from the amplifier and the outgoing wires to the speaker(s) should be connected to the terminal block as discussed above. In case of the IM-3303 or IM-4406, either the left or the right channel terminals can be used as mentioned previously. Both left and right channel terminals should be used in a stereo system. Proper polarity must be observed.

After terminating the speaker wires, the volume control should be screwed on to the gang box with the decorative plate using the screws provided.

TESTING

The system should now be tested for proper functioning. The volume control has nine steps with an off position. The knob should be rotated to second or third position. The main amplifier should be turned on and its volume turned up slowly. Sound should be heard from the speaker(s). If not, the amplifier should be turned off immediately and all wiring connections checked thoroughly, including polarity of connections.

If sound is heard from the speaker(s), the system is working. The Tone and Volume control settings on the amplifier should now be adjusted as desired. The volume control setting on the stereo volume control can also be set at desired position now.

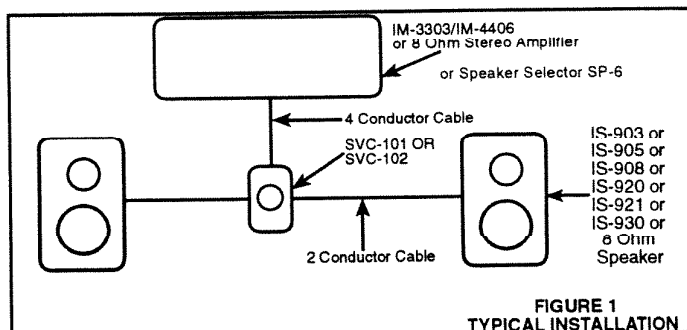


FIGURE 1
TYPICAL INSTALLATION

CAUTION: The INPUT and OUTPUT connections should not be reversed!

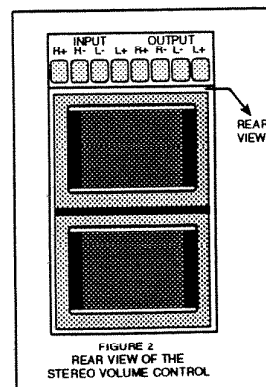


FIGURE 2
REAR VIEW OF THE STEREO VOLUME CONTROL

TABLE 1

Stereo/Mono Amplifier Power	SVC-101 75 Watt Volume Control		SVC-102 150 Watt Volume Control	
	8 Ohm Music Speaker/Ch	25 Ohm Speaker/Ch	8 Ohm Music Speaker/Ch	25 Ohm Speaker/Ch
25 Watts 8 Ohms	One of the following: MS-825, MS-828 MS-725, MS-625, MS-626, MS-525BL, MS-525WH, MS-418	One, two or three of the following: IS-903, IS-905, IS-920, IS-921, IS-930	One of the following: MS-825, MS-828 MS-725, MS-625, MS-626, MS-525BL, MS-525WH, MS-418	One, two or three of the following: IS-903, IS-905, IS-908, IS-920, IS-930
50 Watts 8 Ohms	One of the following: MS-825, MS-828 MS-725, MS-625, MS-626, MS-525BL, MS-525WH	One, two or three of the following: IS-903, IS-905, IS-920, IS-921, IS-930	One of the following: MS-825, MS-828 MS-625, MS-626, MS-418 MS-525BL, MS-525WH	One, two or three of the following: IS-903, IS-905, IS-920, IS-921, IS-930
75 Watts 8 Ohms	One of the following: MS-825, MS-828 MS-625, MS-626, MS-418, MS-525BL, MS-525WH	One, two or three of the following: IS-903, IS-905, IS-908, IS-921, IS-930	One of the following: MS-825, MS-828 MS-625, MS-626, MS-418 MS-525BL, MS-525WH	One, two or three of the following: IS-903, IS-905, IS-908, IS-921, IS-930
100 Watts 8 Ohms	—	—	One of the following: MS-828, MS-626, MS-418	One, two or three of the following: IS-908, IS-921, IS-930
IM-3303*	—	One of the following: IS-903, IS-905, IS-908, IS-920, IS-921, IS-930	—	One of the following: IS-903, IS-905, IS-908, IS-920, IS-921, IS-930
IM-4406*	—	One of the following: IS-903, IS-905, IS-908, IS-920, IS-921, IS-930	—	One of the following: IS-903, IS-905, IS-908, IS-920, IS-921, IS-930

*Single Channel Mono System

Do not use 8 Ohm speakers with intercoms.

Note: When using A,B switch in a music system, the total number of speakers connected to Channel A and Channel B should be the same and should not exceed the number given in the above table. Refer to instruction sheet on the selector switches.