

# Using Stage Speakers

The stage speakers are used to provide audio to performers on stage who would otherwise not be able to hear other performers, CD audio, or themselves. The sound board provides a way to route specific microphones to the stage speakers.

The volume for the stage speakers is controlled by knobs on each speaker and from a sound board volume control. This control knob is found on the right side of the sound board.

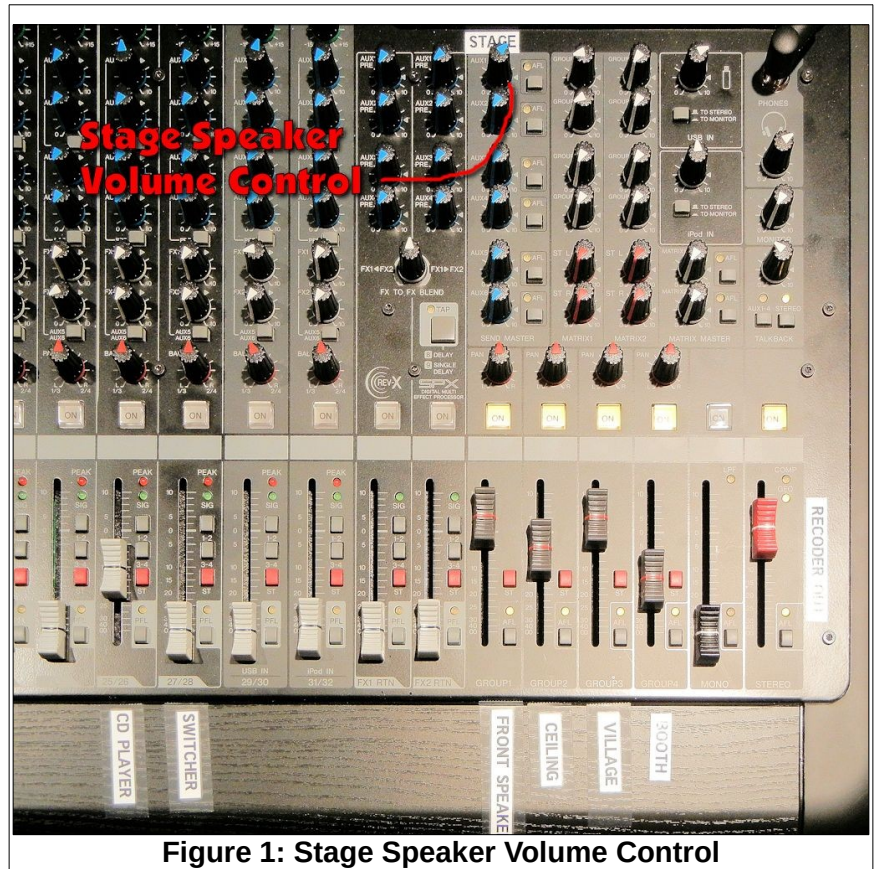


Figure 1: Stage Speaker Volume Control

Each microphone channel has a knob labeled **Aux 1**. The Aux 1 knob controls the sending of microphone output to the Aux 1 Send Master (in our installation, the Aux 1 send master controls the volume of the stage speakers.)

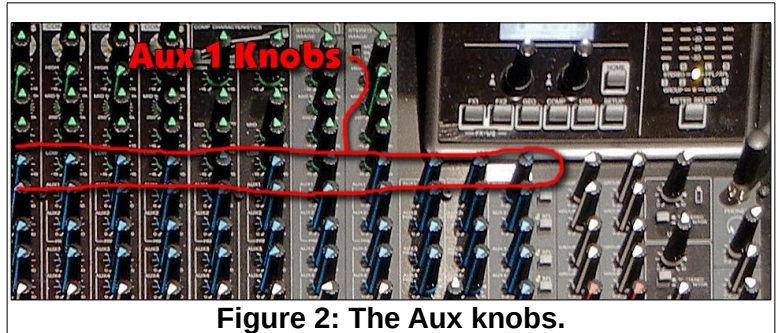
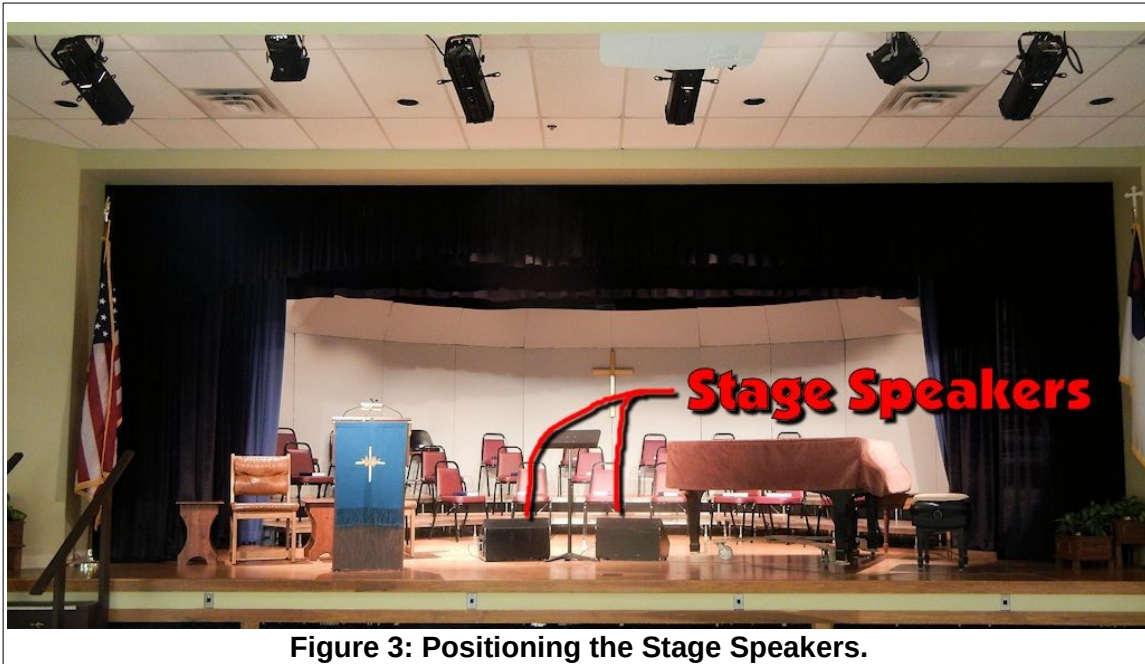


Figure 2: The Aux knobs.



**Figure 3: Positioning the Stage Speakers.**

### Stage Speaker Example 1

Here is an example of stage speaker use. Suppose that members of the chorus seated on the stage need to hear the speaker at the lectern. The stage speakers are positioned on the floor in front of the chorus and the control knobs on both speakers are set to level 8. The lectern microphone is connected to microphone input 5. The sound board line 5 Aux 1 knob is rotated to about half way as a starting point.

With this setup, the volume from the lectern microphone to the stage speakers can be controlled by adjusting the Aux 1 knob on sound board line 5 and the Aux 1 stage speaker volume knob.

**NOTE:** To prevent feedback in the above example, do not position the stage speakers where they can send sound to the lectern microphone.

### Stage Speaker Example 2

Another example of using the stage speakers is when a vocalist is accompanied by the piano. In this example, one stage speaker is placed in front of the vocalist and a second stage speaker is placed near the pianist. Set each stage speaker volume control to level 8.

Let's connect the vocal microphone to front of stage input 6 and the piano microphone to input 7. (The vocal mic must NOT be an omni style mic. Omni mics will cause feedback from the stage speakers.)

On the sound board, all Aux 1 control knobs are all set to 0 except lines 6 and 7 (which are rotated about half way as starting points). The stage speaker volume knob is set to 8 as a starting point. The sound board Aux 1 knobs are then used to adjust the desired stage speaker volume for each microphone. The Aux 1 volume should be adjusted during a live mic check. The vocalist should provide info about the volume from the speaker.



### Stage speaker connections

Stage speakers are connected to each other via cables with 1/4 inch phone jacks. Connect the out port of the first speaker to the in port of the second speaker. Connect the in port of the first speaker to a connector jack located on the lower right front side wall behind the stage curtain (as viewed from the audience).



Figure 4: Speaker connector location.

**NOTE:** There is a coat hook on the wall above the stage speaker connector jack that should be used for storing the stage speaker cables.

### Quick review

Set the on-speaker volume controls to 8. Use the sound board Aux 1 control knobs to set volumes for the microphones to send to the stage speakers. Use the sound board Aux 1 send master knob to control the stage speaker volume.

**REMINDER:** The stage speakers are typically used in conjunction with stand microphones that are placed on the stage floor. The floor is like a big drum that can transmit sounds up the microphone stand to the mike and cause unwanted sounds. When using a microphone stand on the stage, always place a piece of carpeting or other soft material under the microphone stand.



Figure 5: Speaker connector.

T

