

Important Mounting Instructions

 CAUTION
<p><i>When wall mounted, the black box containing the VAE processor must be securely attached to the wall in accordance with the installation instructions.</i></p> <p>FAILURE TO FOLLOW INSTALLATION INSTRUCTIONS MAY RESULT IN INJURY.</p>

These instructions cover the installation of Wenger’s VAE® (Virtual Acoustic Environments) electronics package in new installations where the room contains all necessary internal components like speakers, microphones and VAE control panel.

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Overview

"Black box" is the term used throughout this manual to describe the assembled black electronics rack containing the VAE processor and related cables and components.

Most installations will allow the black box to be located in its preferred position, sitting on the top of the VAE equipped Wenger SoundLok room. In applications where that space is not available or desirable, the black box can be mounted to the wall on the side of the room.

In either location, the black box will be ducted through an 8" x 20" hole in the closure panel and covered with a grill, providing necessary ventilation.

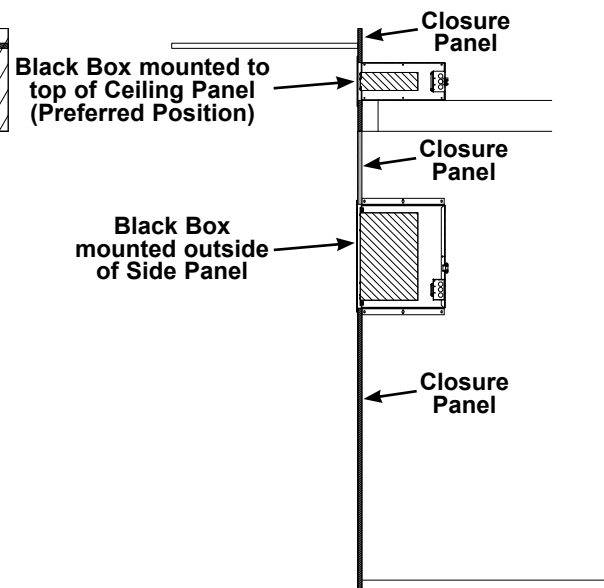
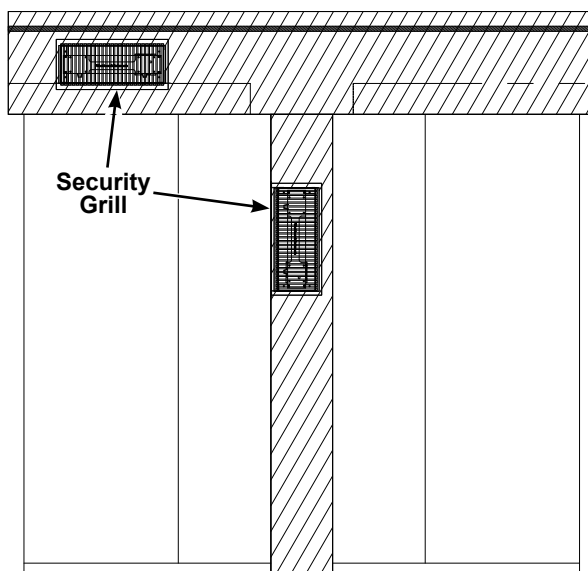
If the black box must be wall mounted, determine the best mounting location. It can be mounted on any side of the VAE equipped SoundLok room but only in an area that is inaccessible to non-service personnel behind closure panels requiring tools for removal.



**Black Box mounted to top of Ceiling Panels
(Preferred Position)**



Black Box mounted to wall on side of room



Black Box Installation

Attach a hanger bracket to both sides of the rack using two #10-16 x 0.75" self drilling screws in each side.

Use the bottom set of holes in the mounting brackets for mounting the rack to the ceiling. Use the top set of holes in the mounting brackets to mount the rack to a side wall.

1. Mount the rack to either the ceiling or side panel using the following methods.

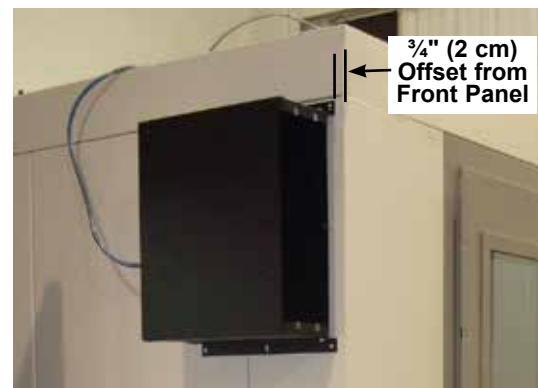
Mounting Rack with Ceiling Installation

- a. Position the rack on the ceiling panels. The rack must be square with the front panels and positioned $\frac{3}{4}$ " (2 cm) back from the front panels to allow clearance for the installation of closure panels.
- b. Attach the rack to the ceiling panels using one #10-16 x 0.75" self drilling screw in both of the rear holes and both of the middle holes of the hanger brackets. The front two holes of the hanger brackets are not used.

or

Mounting Rack with Side Panel Installation

- a. Position the rack at the front of the side panel. The rack must be square with the front panel and positioned $\frac{3}{4}$ " (2 cm) back from the front panel to allow clearance for the installation of closure panels.
- b. Attach the rack to the side panel using a #10-16 x 0.75" self drilling screw in the middle hole of the top hanger bracket. Level the rack and attach screws in the five remaining holes in the hanger brackets.



Black Box Installation (continued)

2. Install the flash memory card (connector end first) into the slot in the back of the VAE processor labeled COMPACT FLASH. It will fit into this slot in only one orientation. The contacts will engage during the last 0.125" of insertion. When properly installed, only about 0.125" of the card will protrude beyond the socket.



3. Holding the VAE processor near the black box, connect the two speaker cables found inside the tray to the VAE processor. Connect the 4-pin connector marked "1-2" to the jack in the VAE processor marked "1-2". Similarly, connect the 4-pin connector marked "3-4" to the jack in the VAE processor marked "3-4".



4. Connect the control cable. This is the cable that extends from the top of the power panel. Insert the connector at the end of this cable through the entrance clamp in the black box and plug it into the socket labeled REMOTE KEYPAD on the back of the VAE processor inside the black box. The locking tab on the connector should be positioned upward.



Black Box Installation (continued)

5. Connect the microphone cables. Locate the microphone panel located toward the left-hand side as entering the room. Connect a microphone cable between the connector on the top of this panel and the jack labeled "MICROPHONE 1" on the back of the VAE processor inside the black box. Repeat for the other microphone panel using the jack labeled "MICROPHONE 2". Both microphone cables should be individually inserted through the entrance clamp in the black box before connecting to the VAE Processor.



6. Connect the power cable provided with the VAE processor. It installs between the IEC connector on the back of the VAE processor and the receptacle inside the black box. Bundle and position the excess cable out of the way above the VAE processor. Box cut-away is being shown for clarity.



Black Box Installation (continued)

7. Install four clip nuts into the four available holes in the front panel of the black box. Install them with the "nut" portion inside the black box. Using these clip nuts, install the processor into the black box with the four screws and washers provided with the VAE processor.

Carefully guide the attached wiring into the black box.

IMPORTANT: Be sure to use the plastic washers that are provided.



8. Connect the four speaker cables. These cables connect each corner panel (containing the speakers) to the black box. Locate the room corner panel directly to the left of the door as you enter the room. Connect one end of the first cable to the mating connector at the top of this corner panel where it protrudes through the ceiling rail. Connect the other end to the left-most speaker connector on the black box.

Move to the next corner in a clockwise direction and connect a speaker cable between that corner and the next speaker connector on the black box.

Continue around the top of the room in a clockwise direction connecting the remaining two speaker cables between the corner panels and their respective connectors in the black box.



Black Box Installation (continued)

9. Be sure the VAE system power switch on the power panel is in the OFF position. Plug the main black box power cable into the mating connector on any other available panel. Secure this cable to the adjacent ceiling or wall panel using a cable clip and self-drilling screw positioned within 6" (15 cm) of the power panel end.

10. Push the power switch on the VAE unit to the "ON" position (depressed).



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