

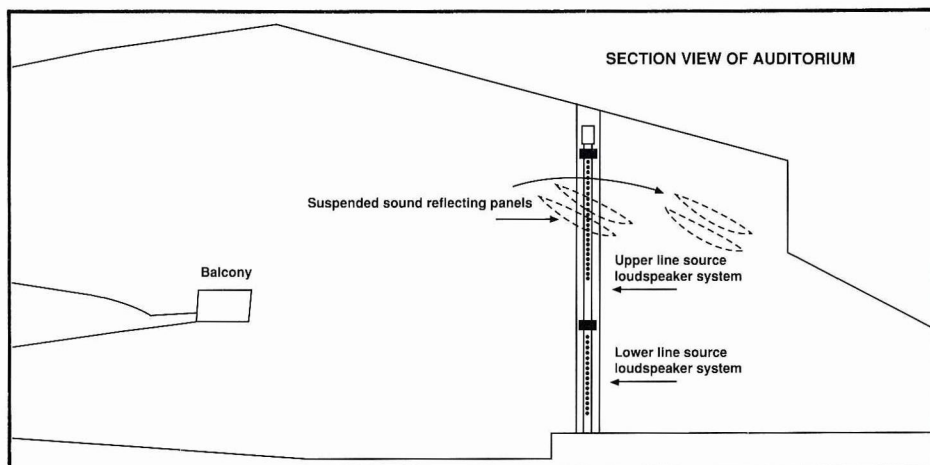


A JBL INSTALLATION

JBL AT THE METROPOLITAN MUSEUM

The Grace Rainey Rogers Auditorium of the Metropolitan Museum in New York City has long been a venue for musical and dramatic performance, lectures, and other events related to museum activities. In early 1988, Klepper Marshall King Associates, Ltd., of White Plains, New York, was asked to design a new sound amplification system for the space. For various reasons a central array was ruled out, and the consulting firm opted for dual vertical line arrays, one on each side of the stage.

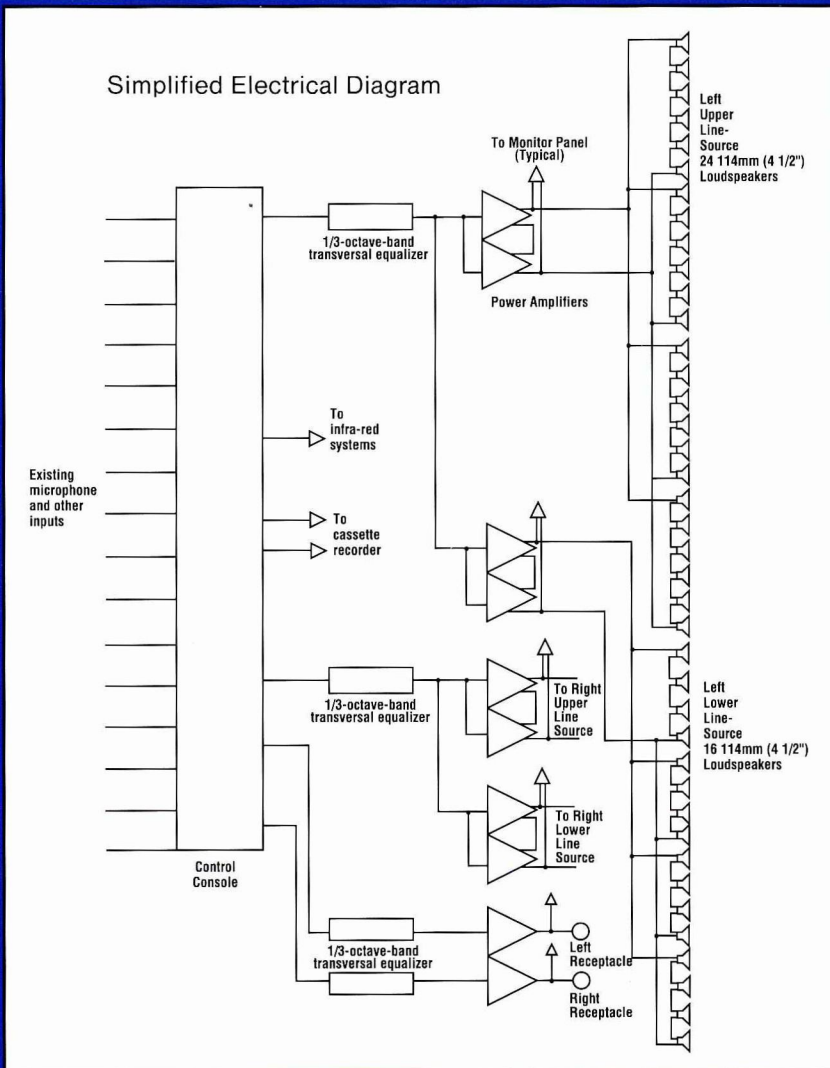
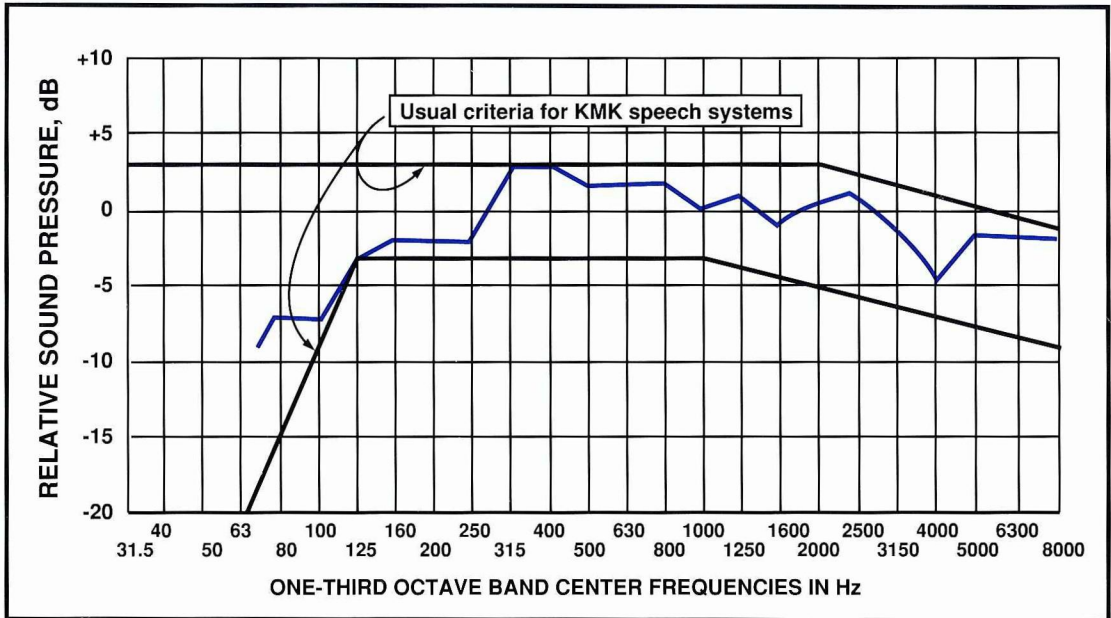
Existing JBL loudspeakers were relocated at the top of the side splays of the proscenium, and new vertical line arrays were located below them. Each line array is in two sections, with the upper section



consisting of 24 JBL model 8110H loudspeakers and the lower section consisting of 16, as shown in the drawing. Continuous grillwork allows the arrays to blend harmoniously with the surroundings. A total of 80 model 8110H loudspeakers are used in the system.

As is seen in the simplified electrical diagram, both upper and lower line arrays are operated in series-parallel to produce nominal impedances of 12 and 8 ohms, respectively, for the four bridged power amplifiers.

Within the near field of a line array, the falloff of direct field level is only three dB per doubling of distance. Thus, an excellent direct-to-reverberant ratio is preserved through most of the room, and overall front-back level variation is minimal. David Klepper's measurements show variations on the main floor no greater than ± 2 dB in the octave centered at 4 kHz. As can be seen in the graph, the amplitude response of the system at mid-house fits well with the KMK criterion for speech systems. The system was finished in the fall of 1988.



CREDITS:

Reinforcement System Design:
 Klepper Marshall King Associates, Ltd.,
 White Plains, New York

System Installation:
 Information Transmission Systems, Inc.,
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