

The Bozak Sonora Loudspeaker System

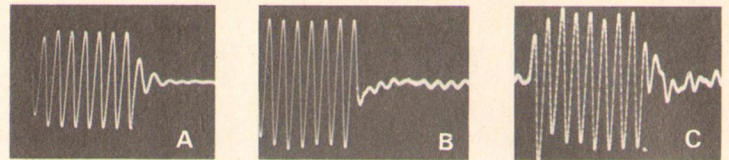
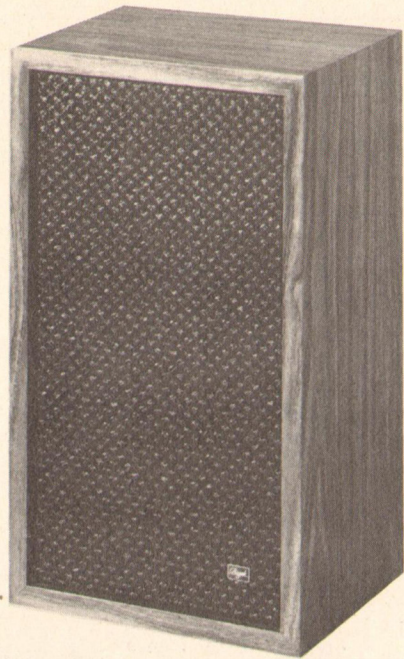


Fig. 2—Tone-burst response. A is 100 Hz; B, 500 Hz; and C, 5000 Hz.

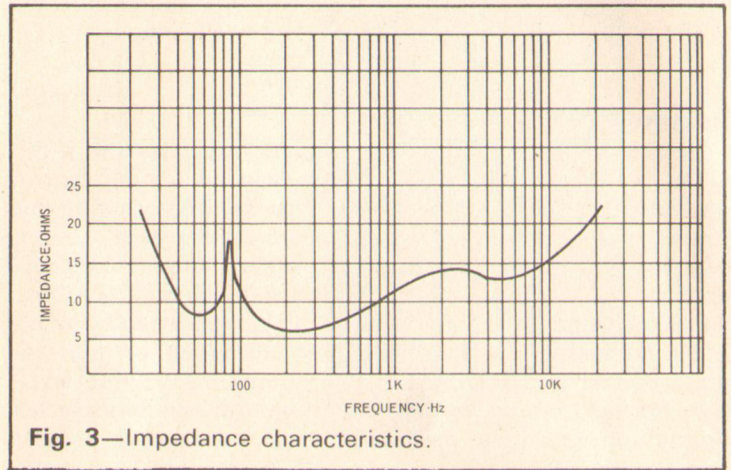


Fig. 3—Impedance characteristics.

MANUFACTURER'S SPECIFICATIONS:

System Type: Two way, totally enclosed. **System components:** 8-in. bass, 2½-in. cone tweeter. **Crossover frequency:** 1800 Hz. **Frequency response:** 45 to 20 kHz. **Recommended amplifier power:** 10 watts (min.). **Nominal Impedance:** 8 ohms. **Dimensions:** 11¾ x 20¼ x 10 inches deep. **Price:** \$94.50.

The name Bozak has always been associated with big sound, large domestic systems or high power speakers for public address. However, they do make bookshelf systems and a few months ago announced the Sonora which is a small system costing less than \$100. It employs an 8-in. bass unit with a 2½-in. cone tweeter—both having metal cones. The HF unit is mounted behind the baffle board which is chamfered to form a kind of horn. Crossover is about 2 kHz and no level control is provided. The system is a tube-vented reflex and the resonance measured 89 Hz. Cabinet finish is walnut and the grille is detachable.

Measurements

Figure 1 shows the response measured with one-third octave pink noise. A was taken on-axis, B at 60 degrees off-axis, and C is an average of five positions. Tone-burst responses at 100,

500, and 5000 Hz are shown in Fig. 2. The impedance characteristics are given in Fig. 3 and it will be seen that the lowest point is around 7 ohms. Low frequency THD and some SPL figures are shown in Fig. 4. Power outputs were 5 and 10 watts. The Sonora could handle 24 watts continuous power at 40 Hz without distress and 45 watts at 100 Hz. White noise tests showed a slight "boxy" coloration.

Listening Tests

Efficiency of the Sonora is somewhat above average and a genuine 10 to 15 watts per channel will be adequate to produce a room-filling sound. The receiver actually used for most of the tests was a Pioneer 424, which is an inexpensive model costing less than \$200. This receiver has the advantage of a speaker switch, thus enabling quick comparisons to be made. The first impression of the Sonora was a smooth sound, but a *big* sound typical of a much larger system. The extreme bass was missing, of course, and the high frequency response seemed just a little attenuated. On the other hand, it was free from spurious presence peaks and consequently quite easy to listen to. If you are looking for a good system in the \$100 class, put the Bozak on your list. T.A.

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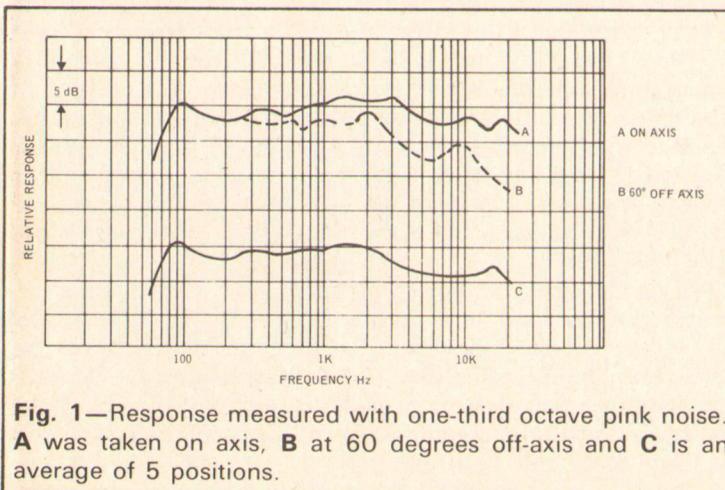


Fig. 1—Response measured with one-third octave pink noise. A was taken on axis, B at 60 degrees off-axis and C is an average of 5 positions.

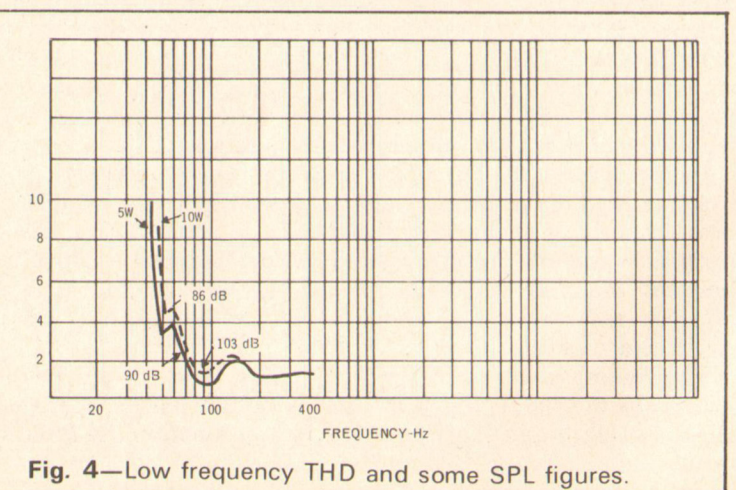


Fig. 4—Low frequency THD and some SPL figures.