

The L300 is the home entertainment version of the 4333 Studio Monitor—one of the most successful loudspeaker designs JBL has produced for the recording industry.

In its working dress at the studio, or in its decorous expression for the home, the acoustical performance is identical: engineered to provide the mighty reserves of sound power, broad bandwidth and undistorted response demanded by the professional producer and the discriminating amateur alike.

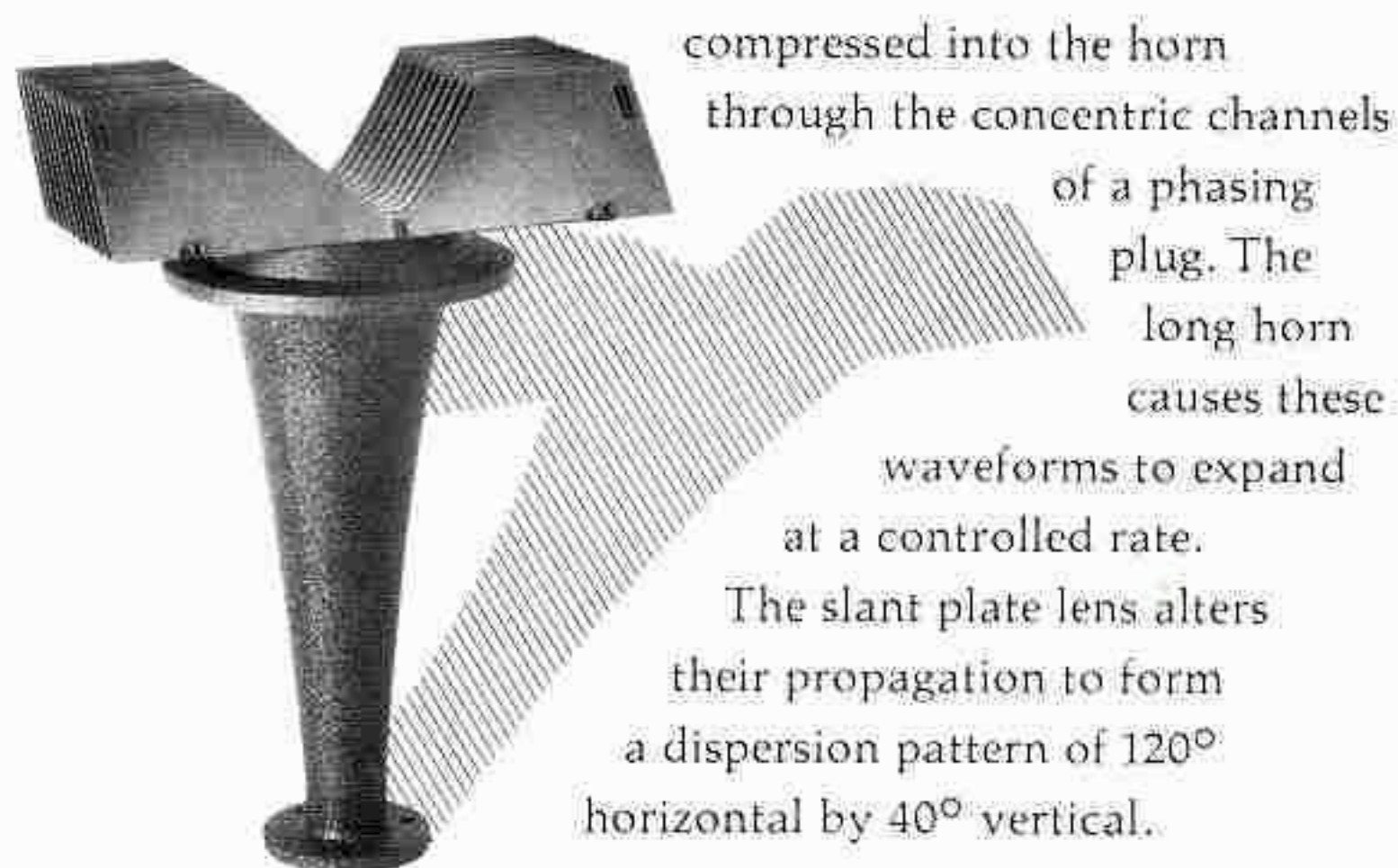
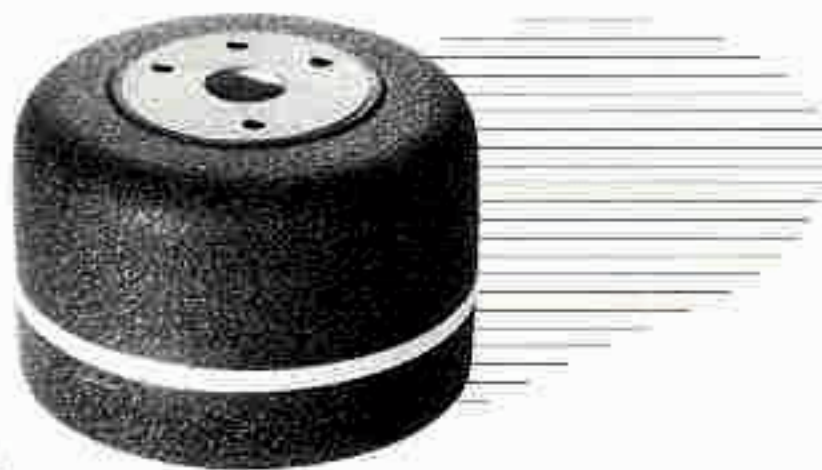


LOW FREQUENCY

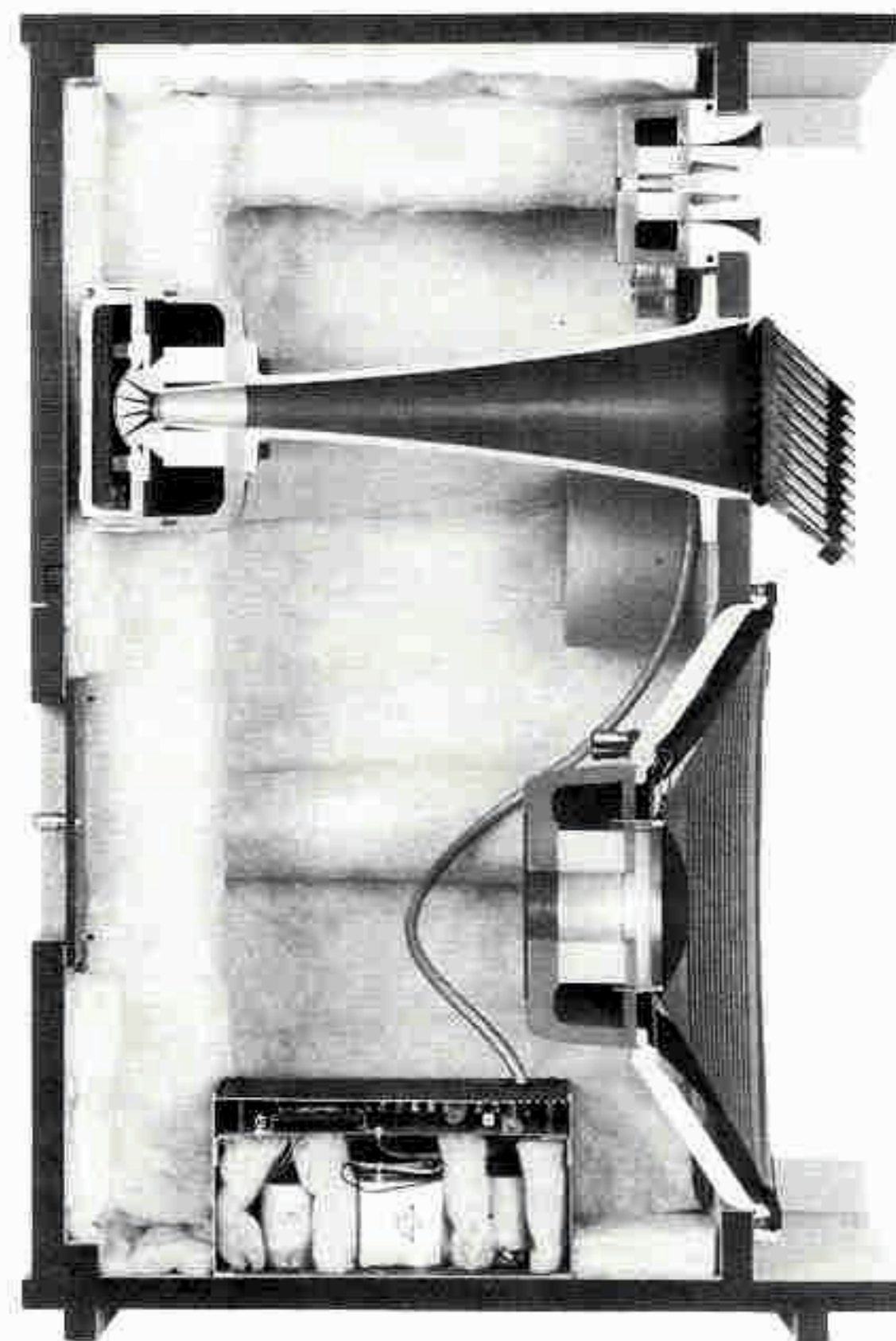
Deep, tight bass is assured by the new 15-inch, 136A low frequency transducer. An extremely stiff, ribbed cone is driven by a 4-inch diameter edgewound ribbon copper voice coil, immersed in a 12-pound magnetic assembly with Alnico V magnet. Optimum weight and stiffness of the cone/voice coil assembly is assured through use of the JBL Mass Controlling Ring®. The cone is suspended in a die cast aluminum frame to eliminate any possibility of warpage and subsequent misalignment of the coil in the magnetic gap. As with all JBL loudspeakers, the 136A is hand-assembled and carefully tested for optimum accuracy, efficiency and transient response.

MIDRANGE

The middle octaves of program material, which include most of the vocal range, are reproduced by a compression driver and new horn/lens combination. The driver (LE85) is a massive 11-pound structure with an aluminum diaphragm attached to a 1-3/4 inch edgewound aluminum ribbon voice coil. Waveforms from the diaphragm are



compressed into the horn through the concentric channels of a phasing plug. The long horn causes these waveforms to expand at a controlled rate. The slant plate lens alters their propagation to form a dispersion pattern of 120° horizontal by 40° vertical.



THE INSIDE STORY

Although the enclosure shapes differ, cutaways reveal that the low frequency network components are identical. The monitor—except another 4333 monitor.