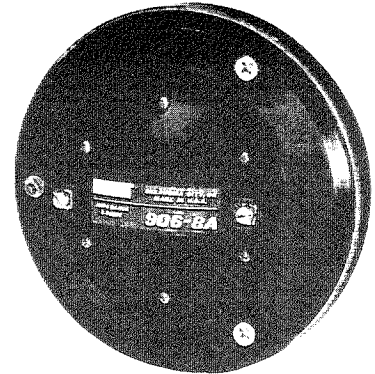
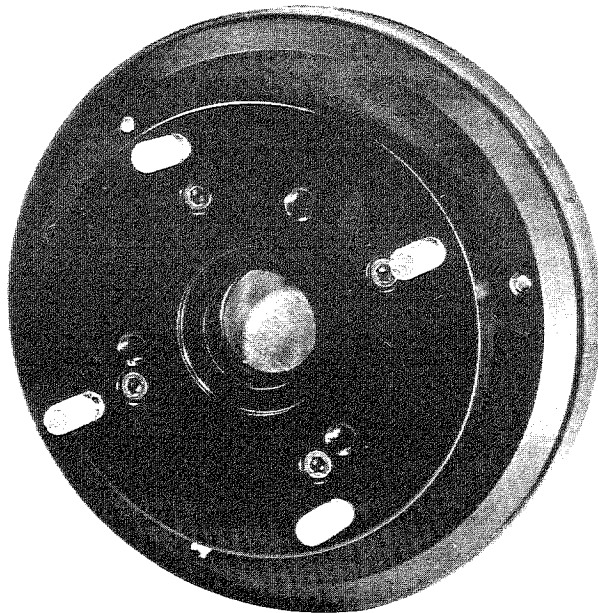




906-8A COMPRESSION DRIVER LOUDSPEAKER



DESCRIPTION

The Altec Lansing model 906-8A high frequency compression driver loudspeaker is designed to be used with a horn, as part of a multi-way loudspeaker system for professional sound applications. It provides outstanding performance at substantial sound output levels. It operates with accuracy and efficiency from 500 Hz to 13 kHz, and so may be used with a low frequency system as a high frequency reproducer, or also with a super-tweeter such as the Altec Lansing model MR902-16HF for the most critical monitoring applications.

The 906-8A may be used with these Altec Lansing Mantaray® high frequency horns: the MR94A and 34656 or 34656Y throat, MR64A and 34654 throat, MR42A and 34652 or 35407 throat, MR11594A, MR115124, MR11564, and MR11542. It may also be used with these Altec Lansing multicellular horns: 805B and 30162 throat, 1005B and 30210 or 30170 throat, and 1505B and 30166 or 30172 throat. It may be used with the 31B bent

sectoral horn and the 33710 throat. In addition, it may be retrofitted to older Altec Lansing sectoral horns, such as the 311-60, 311-90, or 511E. It may be used with the Altec Lansing N1285-8B triple frequency crossover network, or it may be bi-amplified. The crossover frequency may be 500 Hz or higher.

The 906-8A high frequency compression driver uses a voice coil of 3 inch (7.6 cm) diameter, constructed of edge-wound ribbon aluminum wire, and bonded to an aluminum dome with Kapton® suspension for maximum performance at high power levels. The entire diaphragm and voice coil assembly is field replaceable without special tools. A properly designed phasing plug ensures efficiency without introducing peaks and dips into the smooth overall response.

The 906-8A provides accurate, natural sound reproduction or reinforcement at high levels.

SPECIFICATIONS

Power Rating:	40 watts average power, V^2/Z 80 watts program power (measurements made with pink noise band-limited 500 Hz - 20 kHz, 906-8A on model MR11594A horn)	Diaphragm:	model 25626, 8Ω , model 25997, 16Ω , aluminum dome with Kapton® suspension
Frequency Response:	500 Hz to 13 kHz	Voice Coil:	3" (7.6 cm) diameter edge-wound ribbon aluminum
Pressure Sensitivity:	109.5 dB-SPL (1 watt, 1 meter, re: 20 uPa, with pink noise band-limited 500 Hz - 3 kHz, 906-8A on model MR11594A horn)	Dimensions:	7.5" (19.1 cm) diameter 3.5" (8.9 cm) deep
Operating Impedance:	8 ohms, 906-8A	Mounting Data:	Three 3/8"-24 pitch, 1" long studs, 120° apart on 3.25" (8.26 cm) centers, or Four 3/8"-24 pitch, 1" long studs, 90° apart on 4.75" (12.07 cm) centers.
Minimum Impedance:	6.0 ohms, 906-8A	Electrical Connectors:	screw terminals
Magnet:	Ferrite, 80 oz. (2.5 kg)	Polarity:	a positive voltage to the terminal marked (+) produces a compression wave at the listening position.
Magnet Structure:	14.25 lbs. (6.5 kg)	Weight:	15 lbs. 11 oz. (6.68 kg)
Flux Density:	1.8 T	Finish:	black enamel

ARCHITECT'S AND ENGINEER'S SPECIFICATIONS

The compression driver loudspeaker shall meet the following criteria. The electrical power capacity shall be 40 watts average power measured by the pertinent Audio Engineering Society standard methods, with pink noise power signal band-limited from 500 Hz to 20 kHz, measured with driver on Altec Lansing model MR11594A horn. Frequency response shall be uniform from 500 Hz to 13 kHz, and the driver shall safely operate at a crossover of (500 or higher) Hz. The driver shall produce 109.5 dB-SPL (re: 20 uPa) at a distance of one meter when driven with one watt of noise band-limited from 500 Hz to 3 kHz, with the driver mounted on an

Altec Lansing model MR11594A horn. The driver shall have an operating impedance of 8 or 16 ohms, and a minimum impedance anywhere in the band no lower than 6 or 14 ohms. The voice coil shall be of edgewound ribbon aluminum wire, 3" (7.6 cm) in diameter, and be bonded to an aluminum dome diaphragm with a Kapton® suspension. The magnetic circuit of the driver shall provide a flux density at the voice coil of 18 kG. The driver shall be 7.5" (19.1 cm) in diameter and 3.5" (8.9 cm) deep, and shall weigh 15 lbs. 11 oz. (6.68 kg). The compression driver loudspeaker shall be the Altec Lansing model 906-8A



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