



DISTRIBUTORS
ATKINS (W.A.) LTD.
 894 HAY ST., PERTH

GOODMANS

HIGH FIDELITY P.M. LOUDSPEAKERS

Axiom
 REG. TRADE MARK

'80'

A P.M. Loudspeaker designed for full audio range reproduction coverage, with outstanding exactness relative to original sound,

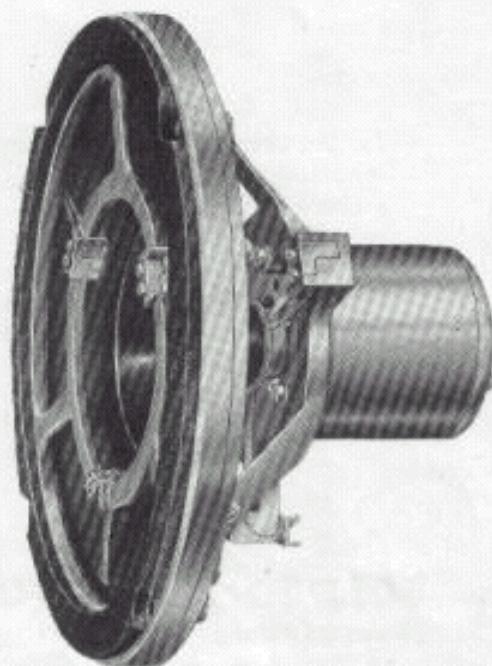
It provides:—

- ★ Listening pleasure hitherto unachieved.
- ★ A clean sound image which satisfies the most discriminating ear.
- ★ A relief from listening fatigue due to absence of distortion changes.
- ★ A true bass reproduction without "boom".

SPECIFICATION

Overall diameter	9 1/2" (24 cm.)
Overall depth	6 1/2" (19 cm.)
Baffle Hole diameter	7 1/2" (19.7 cm.)
Mounting Holes	4—"O" B.A. clearance equally spaced on 8; p.c.d. Patented Twin Exponential Assembly.
Suspension	Specially designed low stiffness type, on the Duplex Cantilever principle.
Fundamental Resonance	20 c.p.s.
Voice Coil Diameter	1" (2.54 cm.)
Voice Coil Impedance	15 ohms at 400 c.p.s.
Maximum Power Capacity	4/6 watts peak A.C.
Flux density	17,000 gauss nominal
Total flux	62,600 maxwells
Nett Weight	9 lb. 6 oz. (4.2 kilos)

For use with this model we recommend Goodmans High Fidelity Output Transformer Type H4. Net weight 5 lbs.—2.3 kg.



The extended audio frequency coverage from 20/20,000 c.p.s. within ± 4 dB in free air has been achieved by the patented Duplex Cantilever (free suspension) twin cone assembly. The absence of any restraint at the edge of the main cone accounts for the unusually low bass resonance level of the Speaker, and the almost complete elimination of self resonance. In conjunction with the high magnetic damping as the result of the flux density of 17,000 gauss, a remarkable transient response at all frequencies has been assured.

Polar response diagrams taken over a total included angle of 100 deg., shows that the maximum deviation does not exceed 3 dB. The ability of this Loudspeaker to give really faithful reproduction of percussion instruments and a life-like exactness of the original instrumental sound is probably one of the most notable features.

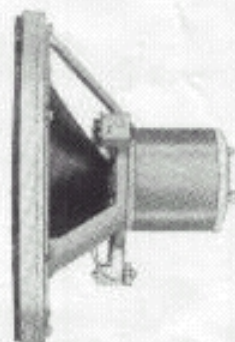
The chassis is designed to eliminate the risk of internal resonance and sound reflection.

The high efficiency of the AXIOM 80 permits successful application and maximum listening pleasure without harmonic distortion when operated at a lower input. When suitably loaded, the AXIOM 80 can be regarded as an outstanding Reproducer of high fidelity and high quality sound sources (direct FM transmission or FM tape recording, high fidelity records, etc.) in small concert halls, studios, cinemas and monitoring establishments.

Whilst the AXIOM 80 is capable of rendering an outstanding exactness of original sound to a hitherto unknown degree of high fidelity, its perfection of reproduction depends upon the quality of the sound source and the intermediate sound transmission equipment.

As the last link in the chain of sound reproduction equipment, the AXIOM 80 truly represents the attainment of a long-desired ideal.

Technical details of a bass reflex cabinet specially designed for use with the AXIOM 80, as well as diagrams of a folded horn cabinet for mounting 4 AXIOM 80's are given on the back of this data sheet.



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