

Western Electric 754B

Loud Speaker

Another in the series
of Loudspeakers
which give . . . *the feeling of presence*

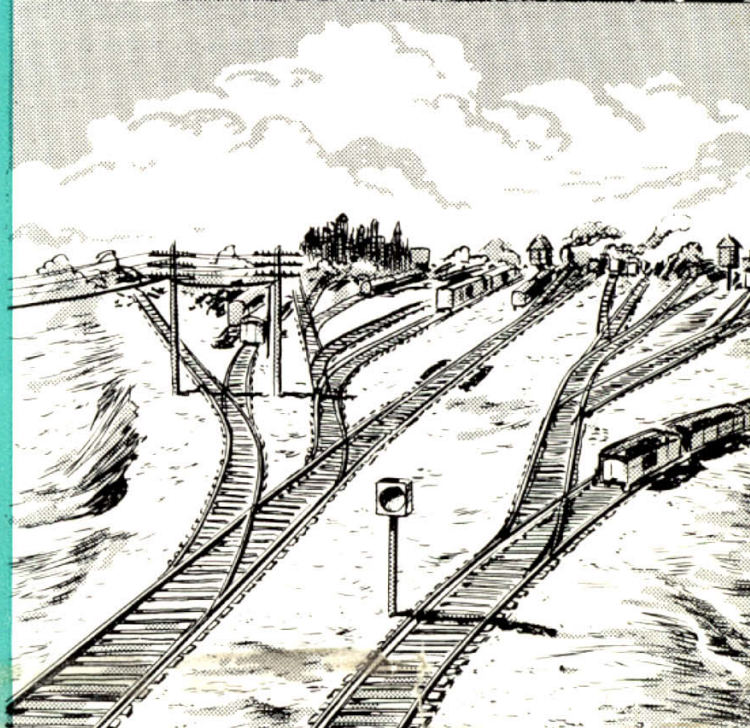
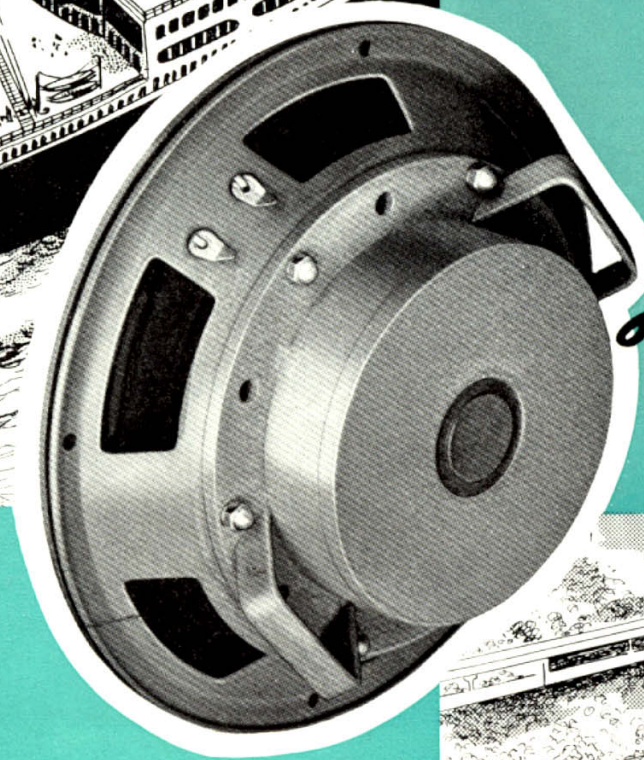
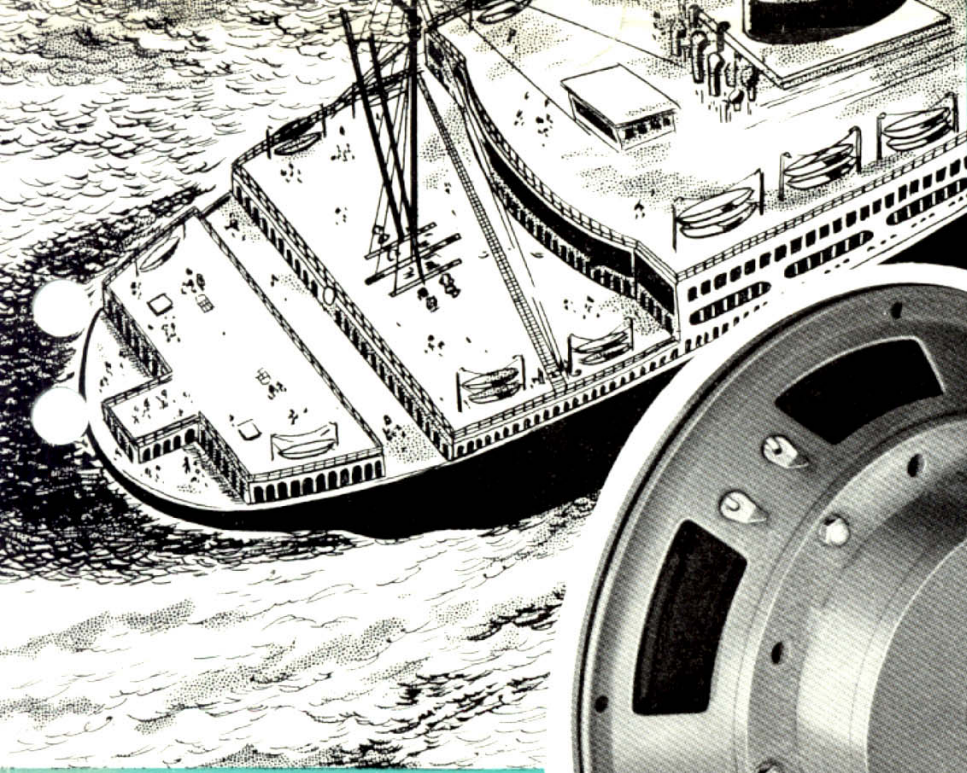
Western Electric, with its broad experience in producing equipment designed for application, has made available a loudspeaker especially suited for use where exposure and moisture are problems. For applications such as outdoor public address, program distribution systems, or sound distribution systems aboard ship, the 754B is the particular loudspeaker for the job.

Designed by Bell Telephone Laboratories, the 754B has a phenolic diaphragm, rugged construction, and excellent frequency response. Music and sound are reproduced so naturally that a psychological effect — *a feeling of presence* — is portrayed to the listener. An overall depth of only four inches for the 754B minimizes mounting space requirements. Optimum results for average conditions are obtained when the 754B Loudspeaker is mounted in a 3 cubic foot non-critically dimensioned enclosure.

The 754B is especially finished and protected for out-of-door use. All metal parts are treated with zinc plate and chromate and the exposed metal parts are finished in gray wrinkle.

FEATURES

- Phenolic Diaphragm unaffected by moisture or salt spray
- Excellent Frequency Response
- Compact Rugged Construction
- High Power Handling Capacity



TYPICAL SPECIFICATIONS

Frequency Response

60 to 8,000 cycles

Voice Coil Impedance

4 ohms

Coverage Angle

50°

Power Handling Capacity

30 watts continuous

Baffle Hole Diameter

10 $\frac{1}{8}$ "

Mounting Holes

Four equally spaced on 11 $\frac{9}{16}$ " diameter

Diameter Overall

13"

Depth Overall

4"

Weight

20 pounds

Finish

Treated with zinc plate and chromate and finished in gray wrinkle.

Speaker Enclosure Required

3 cubic feet completely enclosed.

Efficiency

At a distance of 30 feet on the axis the 754B will produce a level of 93.5 db above 10⁻¹⁶ watt per square centimeter at 30 watts input. This level is on a basis of a warble frequency covering a range from 500 to 2,500 cycles per second.

SPEAKER ENCLOSURE

For optimum performance under average conditions the enclosure should have a volume of three cubic feet with no openings other than the baffle hole. Since its dimensions are not critical the enclosure can be designed to fit into almost any type of installation — a highly desirable feature.

The following inside dimensions are for a typical three cubic foot enclosure, which produces excellent results. Width 21", height 23 $\frac{3}{4}$ ", top depth 9 $\frac{1}{4}$ ", bottom depth 12 $\frac{3}{8}$ ".

The enclosure should be constructed of wood not less than $\frac{3}{4}$ " thick. Inside surfaces of the box should be lined with sound absorbing material 1" thick. If a grille cloth is used for covering the speaker it should be an open mesh material which has no audible effect on the high frequency response.

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TWENTY-FIVE BRANCHES FROM COAST TO COAST