

This is the E-V Carlton phase loaded enclosure with recommended E-V components in place.

Electro-Voice **MAKES HI-FI HISTORY WITH** **EXCITING NEW PHASE LOADED ENCLOSURES**

For the first time—and only from Electro-Voice—you get performance from along-the-wall speaker enclosures which approaches the performance of a corner horn! E-V does it with the exciting new principle of PHASE LOADING, the most important advance in baffle design since the Folded Corner Horn!

Designed specifically for use along a wall, phase loaded cabinets give you almost a full added octave of bass range and completely eliminate the "boomy" characteristic of bass reflex enclosures.

Flat, fundamental response is obtained *two* ways with PHASE LOADING:

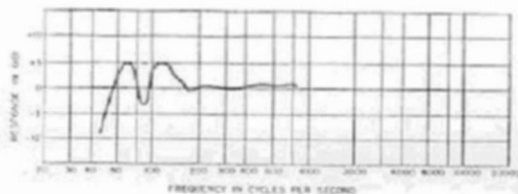
First, by placing the driver at the rear of the cabinet close to the floor, and facing the wall. The wall and floor act as reflecting surfaces, close and almost equi-

distant from the driver cone, eliminating phase difference between reflections and the source.

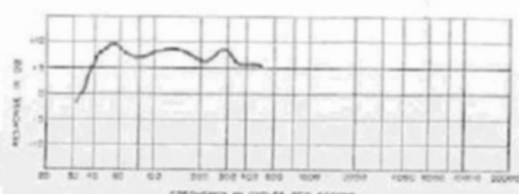
Secondly, Phase Loading permits a sealed cavity behind the cone, of precise volume. The compliance of this cavity, in conjunction with the mass of the cone, is made to react with the mass and compliance of the outside air throughout the second octave, adding this range to the response not otherwise attainable except through corner horns.

The low crossover of 300 cps makes this system possible, for higher frequencies are not propagated properly by indirect bass radiators.

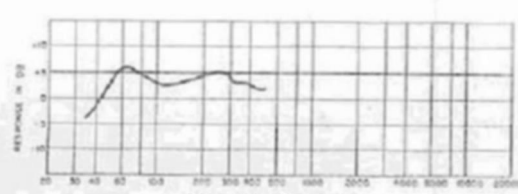
The application of these principles in E-V's PHASE LOADING gives full-bodied, extended low-bass hitherto unavailable. Musical balance is achieved for the first time in an along-the-wall system.



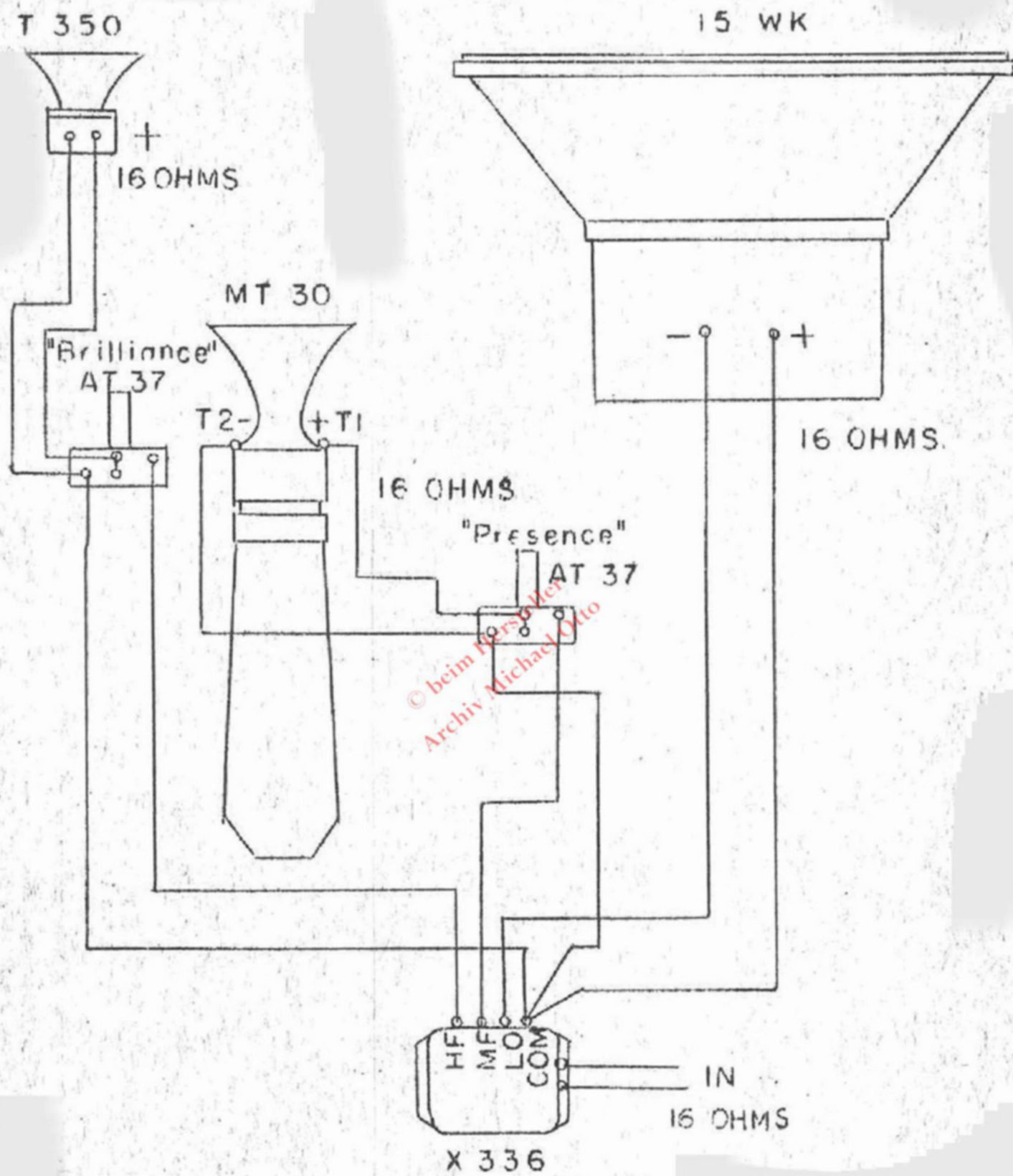
This curve shows performance of the usual 4-way systems in a bass reflex cabinet. Note the dip at 85 cps, which shows the destructive cancellation and the consequent loss of bass response.



This curve shows the smoothness throughout, the extra response and the extended bass response you get with phase loading.



This is E-V phase loading. As you can see, performance in an along-the-wall position closely approaches that of a corner horn.



CARLTON 105 E SYSTEM
(WIRING FOR 117B SYSTEM
SAME AS ABOVE)

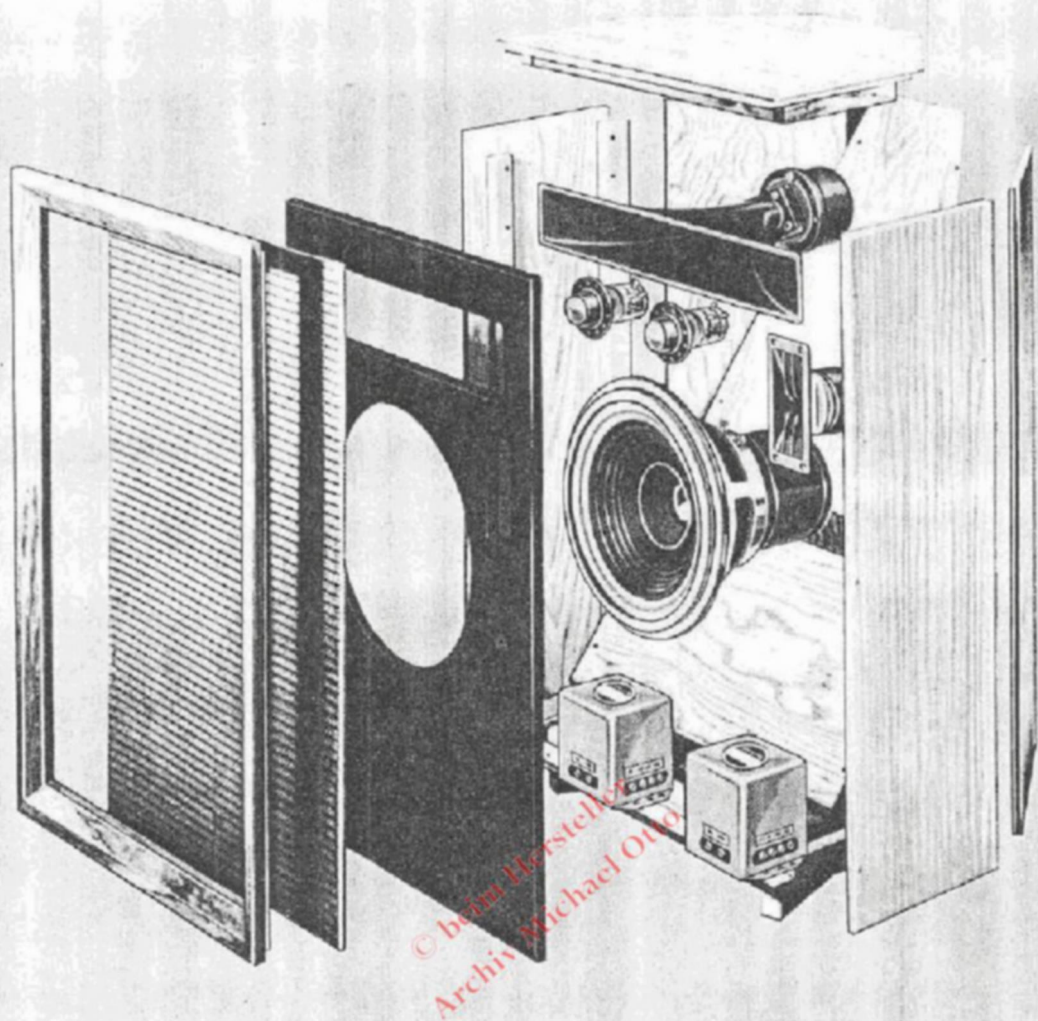
ELECTRO-VOICE, INC.
BUCHANAN, MICHIGAN

Part No. 53496

CONNECTION +
NO CONNECTION +
RED = POS +
BLACK = NEG. -

MIMCO IN U.S.A.

FOR HI-FI ON A BUDGET, FOLLOW THE ELECTRO-VOICE BUILDING BLOCK PLAN



Start with your basic speaker and improve your compatible E-V high-fidelity system one economical step at a time by adding Electro-Voice Speaker Building Blocks.

Here, we've started with an SP12—12-inch coaxial driver. Later, you add BB2—a T35 very-high-fre-

quency driver, X36 crossover and AT37 level control with wiring harness. BB2, Net \$50. Still later, augment with the BB4—to smooth and disperse treble range, it includes T25A treble driver, with 8HD horn, a second crossover—800-cps X8—and a second AT37 level control with wiring harness. BB4, Net \$114.

Build Your Own E-V Speaker Enclosure with a Pre-Cut, Pre-Cleated 'Do-It-Yourself' Kit

There's no thrill like building your own speaker enclosure! Economize on your hi-fi system without sacrificing quality by assembling an E-V knock down kit of Korina plywood. Korina is of highest quality, naturally light in color, harder than mahogany, allows finishing to match any shade. There are seven models to choose from.

Shown dis-assembled is E-V's KD6 kit. Assemble it and you have a duplicate of our factory-built ARISTOCRAT enclosure of folded horn corner design for use with 12-inch drivers or separate multi-way systems. KD6, Net \$39.

Electro-Voice®

For all the facts about Electro-Voice Lis-

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