

DESCRIPTION

Representing an entirely new approach to loudspeaker system design, the E-V FIVE·A provides performance formerly found only in far more expensive systems. The ten-inch woofer, two and one-half inch tweeter and RLC crossover created for the E-V FIVE·A have been tested as individual components and then as an integral part of a completed system, assuring performance equal to the laboratory standard.

An acoustic - suspension woofer requires more moving mass than a conventional speaker for good low-frequency response. The required mass is supplied in the E-V FIVE·A woofer by adding two additional layers of wire to the voice coil. More turns of wire in the magnetic gap maintains efficiency and offsets the increased mass. The result is bass response superior to woofers far more costly and complex. Transient response, even near the resonant frequency, remains clean and precise. The bass viol and kettle drum retain their natural quality - here there is no "juke box bass."

Brilliant high-frequency response is assured by a new tweeter incorporating several design innovations. While basically a cone tweeter, it has a specially selected dust dome mounted centrally on the cone. In the lower portion of its frequency range the tweeter cone and dome together function with full efficiency. As frequency increases, a progressively smaller area of the cone radiates sound. At the highest frequencies, only the dome is radiating. Thus maximum dispersion is maintained at all frequencies without sacrificing efficiency. Resonant frequency of the tweeter is just below the cross-

over point, for rapid rolloff. In addition, viscous damping compound is injected between the voice coil form and magnetic structure. This semi-liquid material controls cone movement at resonance, and eliminates spurious responses and breakup.

A coating of pure vinyl protects the genuine walnut veneer surface. Dust cannot collect in the wood grain and dull the appearance. A furniture-grade paste wax may be applied for a glossier finish. Steel wool (2/0 or 3/0 grade) may be used to reduce surface sheen; a finer grade (4/0) will rub out burnish marks. Take care not to cut too deeply along edges.

SPECIFICATIONS

Frequency Response:	30 to 20,000 Hz
Nominal Impedance:	8 ohms
Power Handling Capacity	
Program:	30 watts
Peak:	60 watts
Dimensions:	12-1/4" H x 21-3/4" W x 10-3/8" D
Finish:	Polymer-coated walnut veneer
Shipping Weight:	27 pounds

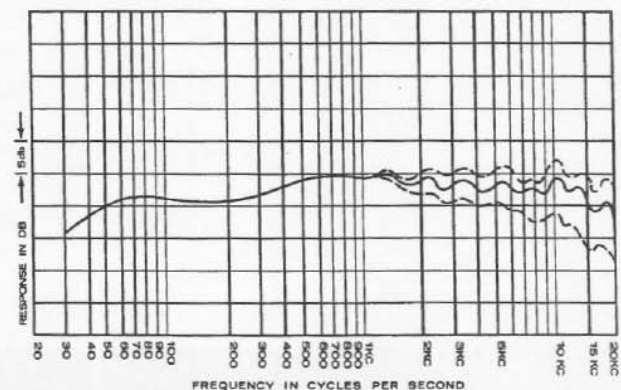


Figure 1 - Representative frequency response and range of balance control action.

ENGINEERING DATA E-V FIVE·A COMPACT LOUDSPEAKER SYSTEM

PLACEMENT

The E-V FIVE·A may be placed on a table, shelf, or on the floor. Generally however, the most realism will be obtained if its height from the floor is near the listener's ear level. Placement in a room corner assures maximum efficiency and bass reproduction, since the room walls are made an integral part of the system, acting as the sides of a large horn. The E-V FIVE·A performs equally well placed in a horizontal or vertical position and the nameplate may be rotated to accommodate either placement.

The above comments apply also to stereophonic placement. Additionally, however, the two systems should be far enough apart to permit listeners to sit at the apex of a thirty- to forty-degree angle, as illustrated. A distance of six to eight feet between stereo speakers will, in most rooms, provide natural separation. Placing the loudspeakers too close together or listening at too great a distance will destroy the stereo effect, and the sound heard by the listener will be essentially monophonic. Extreme spacing between speakers or listening at too short a distance will produce exaggerated and unreal separation. In long rooms, the loudspeakers should be placed along one of the short walls facing into the long room dimension. This improves bass reproduction and provides good stereo listening over most of the room.

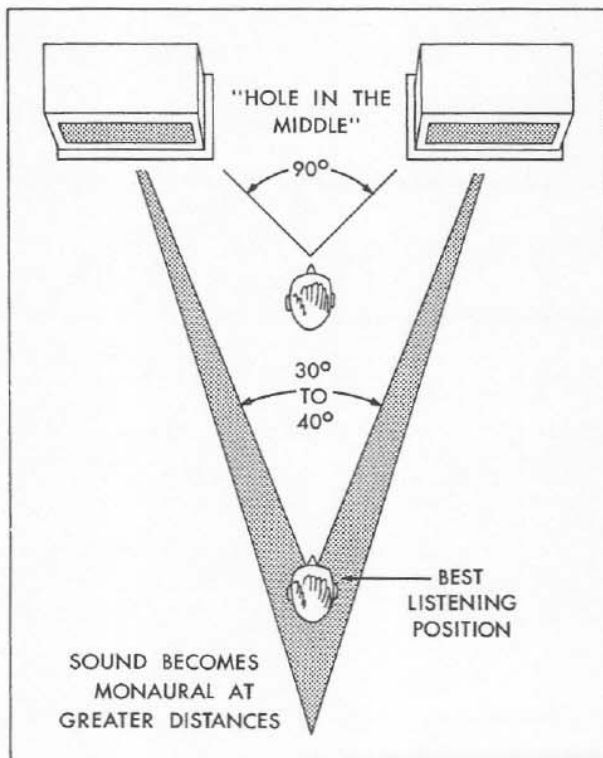


Figure 2 - Placement for stereo

AMPLIFIER CONNECTIONS

The E-V FIVE·A has a nominal impedance of eight ohms. Connections should be made between the left terminal (T1) and the amplifier 8-ohm terminal; the right terminal (T2) should be connected to the amplifier "common" terminal (sometimes referred to as "O" or "C"). Connections should be made with No. 18 or larger wire; common zip- or lamp-cord is quite satisfactory. If the speaker leads are to be run behind a molding strip or under a carpet, 300-ohm TV twin lead should be used.

ADJUSTMENT OF BALANCE CONTROL

The E-V FIVE·A is equipped with a continuously-variable balance control to adjust the high-frequency response of the system to varying acoustical environments. The "normal" position, indicated on the control, should be correct in most instances. Acoustically "hard" or "live" rooms may require a retarded setting of the control to compensate for the greater amount of high-frequency reflection. In "soft" or "dead" rooms with carpeting, soft furniture, and draperies, an advanced setting of the control will normally be required. The best guide to setting the control properly is a familiarity with the sound of live music. That position of the control which provides the musical balance most satisfactory to you is correct.

CUSTOMER SERVICE

Your E-V FIVE·A system has been packed to provide protection well in excess of shipping requirements of the Interstate Commerce Commission. If shipping damage occurs, contact the dealer from whom the unit was purchased or the carrier and request inspection and further instructions.

WARRANTY

The model E-V FIVE·A is guaranteed indefinitely against defects in original materials and workmanship. If it becomes damaged or develops faulty operation from unusual conditions of use, write to the Electro-Voice Service Department, requesting return authorization and shipping instructions. Be sure to mention the make and model number of the other components used in your system.

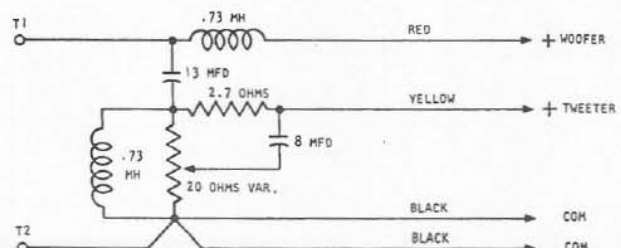


Figure 3 - Schematic diagram

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