

DESCRIPTION

The Electro-Voice E-V FOUR system is a three-way reproducer offering distinguished performance in an enclosure of surprisingly modest dimensions. The use of three separate drivers, each handling a restricted portion of the audible spectrum, vastly reduces distortion and permits reproduction of a wide frequency range. The twelve-inch woofer, built in a high-pressure die cast chassis, features such refinements as a ceramic magnet, edge-wise-wound voice coil and a linear suspension which allows long, yet carefully controlled, excursions. Mid frequencies above 800 cps are handled by an entirely new mid-range driver and diffraction horn combination which utilizes the latest in precision injection molding techniques. An outstanding ring diaphragm design eliminates the coloration often introduced by conventional dome diaphragms. Precise high frequency reproduction is assured through the use of a specially designed five-inch cone-type VHF driver. This fine reproducer incorporates a silver-plated aluminum voice coil and polyurethane foam suspension for optimum frequency response and transient characteristics. A three-way electrical crossover using the finest components and etched circuit board construction provides smooth transition from one driver unit to the next, with crossover frequencies at 800 and 3500 cps.

Carefully matched to the driver components and constructed of fine selected hardwoods, the E-V FOUR enclosure is an outstanding combination of fine furniture design and acoustical excellence. The cabinet is finished on four sides to allow use of either vertical or horizontal position. The nameplate may be rotated for vertical placement. The use of heavy, vibration-free three-fourths-inch panels gives the E-V FOUR enclosure unusual rigidity.

FEATURES

- Low distortion and superb balance achieved by use of three separate drivers
- Enclosure carefully matched to component-quality drivers
- Three-way electrical crossover effective at 800 and 3500 cps

SPECIFICATIONS

| | |
|-------------------------|---------------------------|
| FREQUENCY RESPONSE: | 30 to 20,000 cps |
| NOMINAL IMPEDANCE: | 8 ohms |
| POWER HANDLING CAPACITY | |
| PROGRAM: | 30 watts |
| PEAK: | 60 watts |
| DIMENSIONS: | 14" h X 25" w X 13-1/2" d |
| FINISHES AVAILABLE: | Oiled walnut and mahogany |

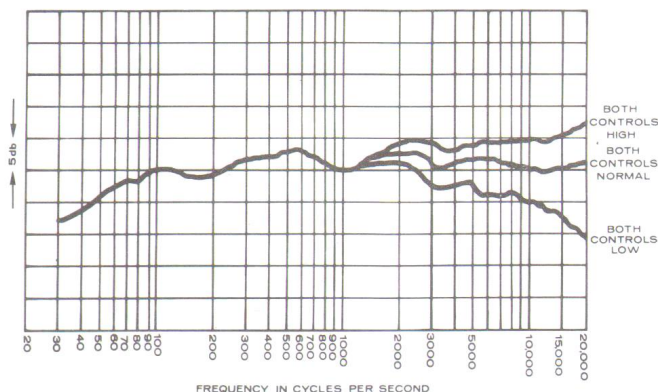


Figure 1 - Frequency Response

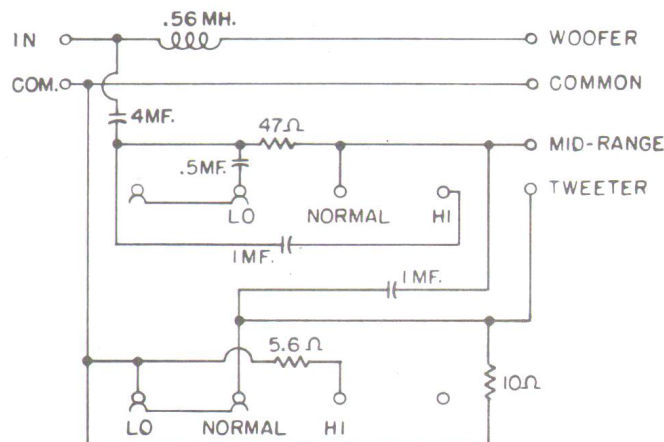


Figure 2 - Schematic Diagram

PLACEMENT

The E-V FOUR may be placed on any shelf or on the floor. Generally, however, maximum realism will be obtained if its height from the floor approximates the listener's ear level. Placement in a room corner, if available, assures maximum efficiency and bass reproduction, since the room walls are thus made an integral part of the system, acting as the sides of a large horn. The E-V FOUR performs with equal effectiveness in vertical and horizontal placement, and the nameplate rotates to accommodate either position.

The same comments apply to stereophonic placement. In addition, the two systems should be far enough apart to permit listeners to sit at the apex of a 30° to 40° angle as shown. A distance of six to eight feet between stereo speakers will, in most situations, provide natural separation. Placing loudspeakers too close together or listening at too great a distance will destroy the stereo effect, since essentially monophonic sound will be heard by the listener. Extreme spacing between speakers or listening at too short a distance will produce exaggerated and unreal separation.

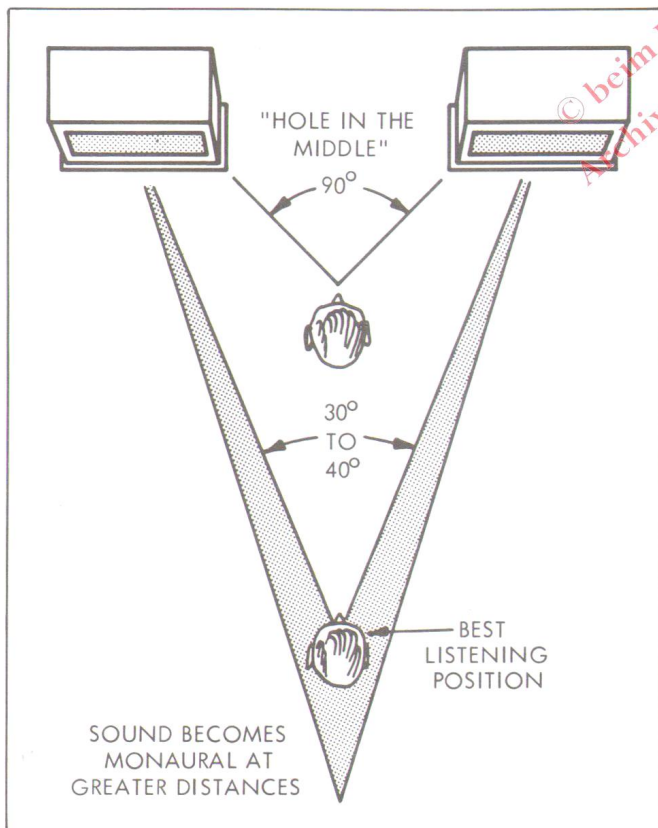


Figure 3 - Placement For Stereo

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.

AMPLIFIER CONNECTIONS

The E-V FOUR has a nominal impedance of eight ohms. Connection should therefore be made between the left terminal (T1) and the amplifier eight ohm terminal; the right terminal (T2) should be connected to the amplifier COMMON terminal (sometimes identified as "O" or "C"). Connection 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 CONTROLS

In order to compensate for differing acoustical environments and personal tastes, the E-V FOUR is equipped with two three-position step-type balance controls. The high-frequency control governs the output of the VHF driver while the remaining control permits adjustment of the mid-frequency driver. A "normal" position indicated on both controls should be approximately correct in most instances. The best guide to setting the controls properly is, of course, a familiarity with the sound of live music. Acoustically "hard" or "live" rooms may require a retarded setting of the high-frequency controls to compensate for the greater amount of high-frequency reflection. In "soft" or "dead" rooms with carpeting, draperies and soft furniture, the advanced setting of the high frequency control will normally be required. The mid-frequency control, sometimes referred to as a "presence" control, may be adjusted to the personal taste of the listener. Setting this control at the indicated "high" position will simulate a "front row" effect. That setting of the controls which provides balance most pleasing to the listener is correct.

CUSTOMER SERVICE

The E-V FOUR system is packed to provide protection well in excess of shipping requirements of the Interstate Commerce Commission. If shipping damage does occur, contact the carrier, requesting inspection and instructions, or the dealer from whom the unit was purchased. The E-V FOUR is guaranteed indefinitely against defects in original workmanship and materials. Should your system become damaged or develop faulty operation from unusual conditions of use write the Electro-Voice Service Department, requesting return authorization and shipping instructions. Be sure to mention the make and model number of other components used in the system.