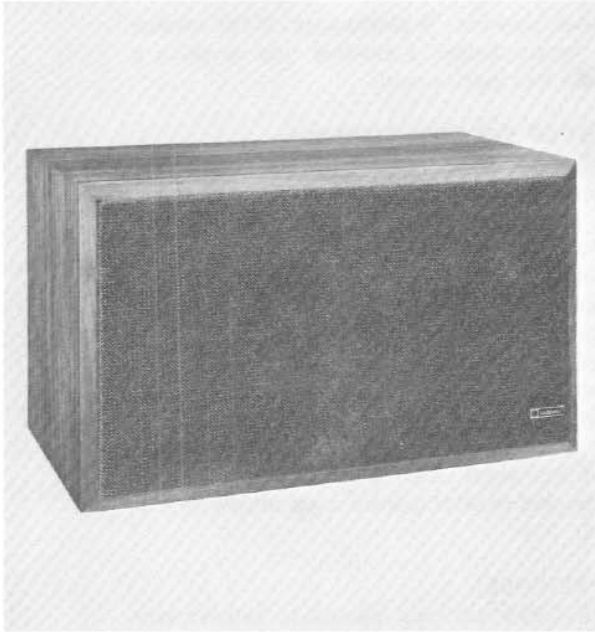




ENGINEERING DATA E-V SIXTEEN COMPACT LOUDSPEAKER SYSTEM



DESCRIPTION

In the decade or more since the introduction of compact speaker systems, performance has improved dramatically through a series of subtle refinements in materials, engineering knowledge, and production techniques. The result of this continuing advancement has been progressively better sound at ever lower costs, and the E-V SIXTEEN loudspeaker system is a case in point.

An acoustic suspension woofer must have an extremely low free-air resonance so that the additional restoring force of the air sealed in the enclosure will raise the operating resonance to the desired frequency. The E-V SIXTEEN woofer has a free-air resonance of 16 Hz. A sealed, urethane foam half-roll surround maintains precise alignment of the cone without unnecessarily raising the resonance.

Often overlooked in early acoustic suspension systems was midrange performance. Because the ear is most sensitive in the middle portion of the spectrum, however, considerable time was spent in perfecting this portion of the E-V SIXTEEN design. The 5-inch speaker employed was designed specifically to reproduce a range of 2 octaves, and to do it precisely and efficiently. The result is clean, clear reproduction of the "presence" range, which contributes to the life and vibrancy of reproduced speech and music.

From approximately 3000 Hz to the limit of audibility, a special 2¼-inch cone tweeter provides the sparkle and brilliance so necessary for satisfying musical reproduction. The shallow, curved cone provides exceptional dispersion—120°—in the 5–10 KHz octave. Transient response is uniformly excellent, due largely to the low moving mass of less than ½ gram.

A deluxe LCR crossover controls the input to each of the drivers and provides adjustment of high-frequency response to match listening room acoustics. Crossover frequencies are 700 and 3000 Hz. The crossover and all components are tested individually, and then as a complete system, to assure laboratory standard performance.

The E-V SIXTEEN enclosure integrates the requirements for acoustical excellence with the techniques of fine furniture construction. All four sides are finished in genuine oiled walnut veneer to allow use in either vertical or horizontal position. The nameplate, which is held in place by an adhesive backing, may be repositioned for vertical placement.

SPECIFICATIONS

Frequency Response:	30 – 20,000 Hz
Nominal Impedance:	8 ohms
Power Handling Capacity,	
Program:	35 watts
Peak:	70 watts
Dimensions:	14½" H x 25" W x 13¼" deep
Finish:	Oiled Walnut Veneer
Net Weight:	38 pounds
Shipping Weight:	49 pounds

PLACEMENT

The E-V SIXTEEN 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 equal to the listener's ear level. The E-V SIXTEEN performs equally well placed in a horizontal or vertical position.

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 in Figure 1. 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 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.

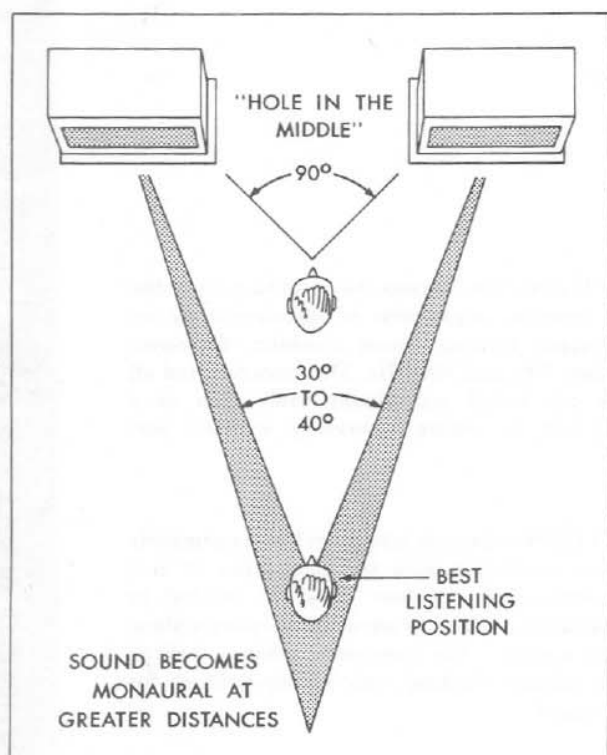


Figure 1 - Placement for Stereo

AMPLIFIER CONNECTIONS

The E-V SIXTEEN has a nominal impedance of eight ohms. Connections should be made between the right terminal and the amplifier 8-ohm terminal; the left terminal 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 satisfactory. If the speaker leads are to be run behind a molding strip or under a carpet, TV twin lead may be used.

ADJUSTMENT OF BALANCE CONTROL

The E-V SIXTEEN 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 SIXTEEN 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.

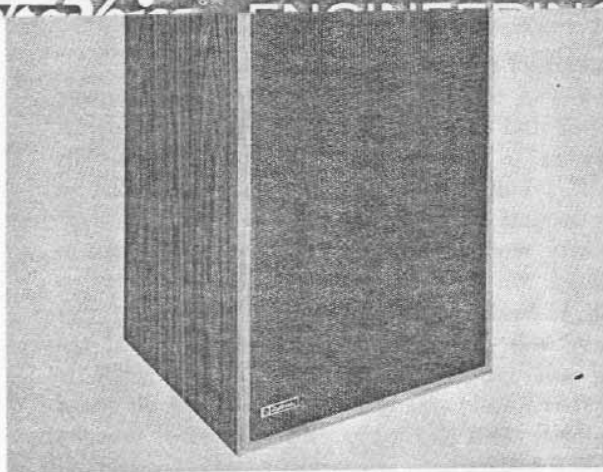
WARRANTY

Electro-Voice high fidelity speaker systems are guaranteed for five years from date of original purchase against malfunction due to defects in workmanship and materials. If such malfunction occurs, speaker will be repaired or replaced (at our option) without charge for materials or labor if delivered to the proper Electro-Voice service facility. Unit will be returned prepaid. Warranty does not cover finishes or malfunction due to abuse or operation at other than specified conditions. Repair by other than Electro-Voice or its authorized service agencies will void this guarantee.

Factory repair for this product is located at: Electro-Voice, Inc., Rankin Road, Newport, Tennessee 37821.

For instructions on return of Electro-Voice products for repair by authorized service agencies, please write: Service Department, Electro-Voice, Inc., 600 Cecil Street, Buchanan, Michigan 49107 (Phone: 616/695-6831).

Electro-Voice also maintains complete facilities for non-warranty service.



DESCRIPTION

In the decade or more since the introduction of compact speaker systems, performance has improved dramatically through a series of subtle refinements in materials, engineering knowledge, and production techniques. The result of this continuing advancement has been progressively better sound at ever lower costs, and the E-V 16A loudspeaker system is a case in point.

An acoustic suspension woofer must have an extremely low free-air resonance so that the additional restoring force of the air sealed in the enclosure will raise the operating resonance to the desired frequency. The E-V 16A woofer has a free-air resonance of 16 Hz. A sealed, urethane foam half-roll surround maintains precise alignment of the cone without unnecessarily raising the resonance.

Often overlooked in early acoustic suspension systems was midrange performance. Because the ear is most sensitive in the middle portion of the spectrum, however, considerable time was spent in perfecting this portion of the E-V 16A design. The 5-inch speaker employed was designed specifically to reproduce a range of 2 octaves, and to do it precisely and efficiently. The result is clean, clear reproduction of the "presence" range, which contributes to the life and vibrancy of reproduced speech and music.

From approximately 3000 Hz to the limit of audibility, a special 2¼-inch cone tweeter provides the sparkle and brilliance so necessary for satisfying musical reproduction. The shallow, curved cone provides exceptional dispersion—120°—in the 5–10 KHz octave. Transient response is uniformly excellent, due largely to the low moving mass of less than ½ gram.

A deluxe LCR crossover controls the input to each of the drivers and provides adjustment of high-frequency response to match listening room acoustics. Crossover frequencies are 700 and 3000 Hz. The crossover and all components are tested individually, and then as a complete system, to assure laboratory standard performance.

The attractive E-V 16A enclosure is rigidly constructed throughout and is handsomely finished in grained walnut vinyl on all four sides. The nameplate, which is held in place by an adhesive backing, may be repositioned to permit either horizontal or vertical placement.

SPECIFICATIONS

Frequency Response:	30 – 20,000 Hz
Nominal Impedance:	8 ohms
Power Handling Capacity,	
Program:	35 watts
Peak:	70 watts
Dimensions:	14½" H x 25" W x 13¼" deep
Finish:	Walnut
Shipping Weight:	39 pounds

PLACEMENT

The E-V 16A 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 equal to the listener's ear level. The system performs equally well placed in a horizontal or vertical position.

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 in Figure 1. 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 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.

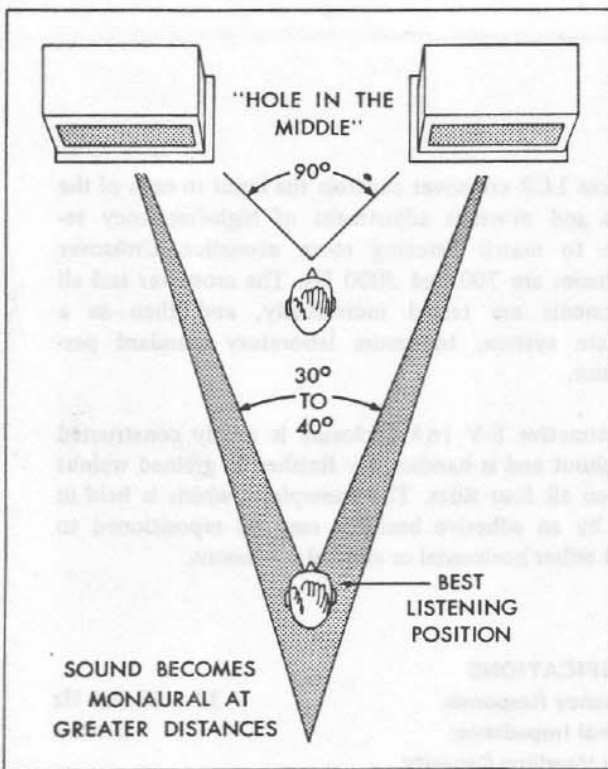


FIGURE 1 — Placement for Stereo

AMPLIFIER CONNECTIONS

The E-V 16A has a nominal impedance of eight ohms. Connections should be made between the right terminal and the amplifier 8-ohm terminal; the left terminal 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 satisfactory. If the speaker leads are to be run behind a molding strip or under a carpet, TV twin lead may be used.

ADJUSTMENT OF BALANCE CONTROL

The E-V 16A 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 16A 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

Electro-Voice high fidelity speakers, speaker systems, and accessories are guaranteed for five years from date of original purchase against malfunction due to defects in workmanship and materials. If such malfunction occurs, unit will be repaired or replaced (at our option) without charge for materials or labor if delivered prepaid to the proper Electro-Voice service facility. Unit will be returned prepaid. Warranty does not cover finish or appearance items or malfunction due to abuse or operation at other than specified conditions. Repair by other than Electro-Voice or its authorized service agencies will void this guarantee.

For instructions on return of Electro-Voice products for repair by authorized service agencies, please write: Service Department, Electro-Voice, Inc., 600 Cecil street, Buchanan, Michigan 49107 (Phone: 616/695-6831).

Electro-Voice also maintains complete facilities for non-warranty service.

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