Electro-Voice®

SOLID STATE FM STEREO RECEIVERS

features at-a-glance

● All-transistor (solid state) electronics with military-type etched circuits ● Direct-coupled output eliminates coupling capacitors and output transformers ● Excellent FM sensitivity and selectivity ● Free from microphonics; exceptionally low distortion, hum, noise ● Automatic switching from mono to stereo without mechanical noise or change in tone ● Wide-band ratio detector improves tuning ease and stereo quality ● Faithful reproduction of musical transients ● Cool operation extends component life, reduces ventilation requirements ● Attractive midnight black and satin aluminum panels ● Tuner dial is illuminated for full visibility.

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description

Electro-Voice engineers, using their comprehensive experience in electro-acoustics and transistor circuitry research for space projects, have taken advantage of the latest "state of the art" and created the new E-V 88 and E-V 77 Stereo Receivers.

E-V 88 and E-V 77 Tuner Section—The highly-advanced FM stereo tuner circuit used in the E-V 88 and E-V 77 provides exceptional sensitivity and selectivity. Its fully automatic mono/stereo switching is achieved without noisy mechanical relays or audible tone variation. Four IF/limiter stages employ dual special purpose transistors to provide balanced symmetrical limiting at each stage. Positive stereo signal identification is provided by an automatic stereo indicator light which, through use of a special inhibitor circuit, cannot be triggered by random inter-station noise. Precise tuning is effected by an accurate zero-center tuning meter. A time-switching multiplex circuit provides inherent SCA rejection, assuring minimum sensitivity to noise on weak stereo signals.

E-V 88 Amplifier Section—The output of the E-V 88 is conservatively rated at 80 watts, IHF music power (40 watts per channel) with almost complete absence of hum, noise, or distortion. Of the forty-three transistors used in the unit, seventeen are incorporated in the tuner, twenty-six in the amplifier; in addition, four silicon diodes are used in the power supply. Stable performance and long component life are achieved by the unit's extremely cool operation. Even the small amount of heat generated by the output transistors is rapidly and effectively dissipated through conduction to a heavy base plate.

Feedback is incorporated around all stages — even the magnetic phono input where it provides highly accurate equalization. The equipment's wide frequency response, unusually low distortion, and exceptional square-wave response exhibit little or no deterioration throughout the entire power output range.

Automatic Contour Regulation, provided by a unique tone control circuit (patent pending) linked to the volume control, provides infinitely variable loudness compensation. Any amount of boost selected on bass and treble controls is regulated by the volume control to reduce the amount of compensation as volume is increased. The flat tone control settings are not affected by volume control adjustments. Bass boost is exceptionally clean — even at maximum setting, where conventional tone controls often sound unpleasantly "boomy."

Provisions are made for the direct connection of extension stereo speakers to the E-V 88, and front panel controls permit independent on-off switching of the two sets of speakers.

The unit is supplied complete with a black perforated metal wrap-around cover. An optional oiled walnut wood case, Model CW2, is also available for either the E-V 77 or E-V 88.

E-V 77—Similar to E-V 88, except 40-watt IHF power output, standard tone control circuit, twenty-nine transistors. Additional specifications listed on reverse side of this sheet.

specifications E-V 88

TUNER SECTION (excluding Multiplex)

Sensitivity:	Better than 3 uv, usable IHF; better than 2 uv for 20 db quieting.
Selectivity:	Alternate channel down 60 db.
Frequency Response:	± 1 db, 10 to 75,000 cps.
Hum and Noise:	Better than 60 db below 100% modulation at full quieting.
Tuning Range:	87.5 to 108.5 megacycles
Drift:	Less than .02%
Harmonic Distortion:	Less than 0.5%
Image Rejection:	40 db
Capture Ratio:	3 db
Spurious Response Rejection:	75 db
Ratio Detector Bandwidth:	1 megacycle
IF Bandwidth:	250 kc
AM Suppression:	50 db
IF Frequency:	10.7 mc
Dial Calibration Accuracy:	1%

MULTIPLEX SECTION

Channel Separation:	Better than 30 db
Frequency Response:	± 1 db, 30 to 15,000 cps*
SCA Rejection:	Better than 40 db
Subcarrier Suppression:	30 db
Stereo-Mono Switching:	All-electronic and automatic in presence of noise-free subcarrier.

*Limit of IHF specifications. Actual response exceeds these figures.

AMPLIFIER SECTION

Power Output:	80 watts IHF music power (40 watts per channel); 160 watts instantaneous peak power.
Frequency Response:	± 1.5 db, 8 to 50,000 cps at rated power
Channel Separation:	40 db minimum at 1000 cps
Harmonic Distortion:	Less than 0.5% at rated output
IM Distortion:	Less than 0.5% at rated output
Hum and Noise:	High level inputs — better than 80 db down at rated output Magnetic phono input — better than 70 db down (reference 10 mv input)
Input Sensitivity:	Magnetic phono, 3 mv Ceramic phono, tuner, auxiliary, and tape monitor, 100 mv
Controls:	Selector (Phono-Tuner-Aux) Volume Balance Bass (+20 db, −20 db at 50 cps)** Treble (+15 db, −15 db at 10 kc)** Speakers 1 On-Off Speakers 2 On-Off Tape Monitor (Source-Tape) Mode (Stereo-Mono) AC Power (Off-On)
Outputs:	Speakers 1 (4-8-16 ohms each channel); Speakers 2 (4-8-16 ohms each channel); stereo tape recorder; stereo headphone.
Output Damping Factor:	50 at 8 ohms
Auxiliary AC Outlets:	2; one switched, one unswitched

**Figures represent maximum boost at low volume settings. (See text for explanation of Automatic Contour Regulation circuit.)

GENERAL SPECIFICATIONS

Power Requirements:	110-120 volts, 50-60 cycle AC
Dimensions:	7⅛" H. x 13¾" W. x 9¾" D.
Weight:	17½ lbs.
Price:	$397.00

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specifications E-V 77

All specifications same as E-V 88, except:

Power Output:	40 watts IHF music power (20 watts per channel); 80 watts instantaneous peak power.
Frequency Response:	± 1.5 db, 10 to 40,000 cps at rated power.
Harmonic Distortion:	Less than 0.5% at rated output
IM Distortion:	Less than 1% at rated output
Hum and Noise:	High level inputs — better than 70 db down at rated output Magnetic phono input — better than 60 db down (reference, 10 mv input)
Bass Control:	+12 db, −16 db at 50 cps
Treble Control:	+12 db, −16 db at 10,000 cps
Price:	$299.00

Electro-Voice® WARRANTY

THE E-V 88 AND E-V 77 ARE UNCONDITIONALLY GUARANTEED FOR TWO FULL YEARS AGAINST DEFECTIVE WORKMANSHIP AND MATERIALS.

ELECTRO-VOICE, INC.
BUCHANAN, MICHIGAN

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