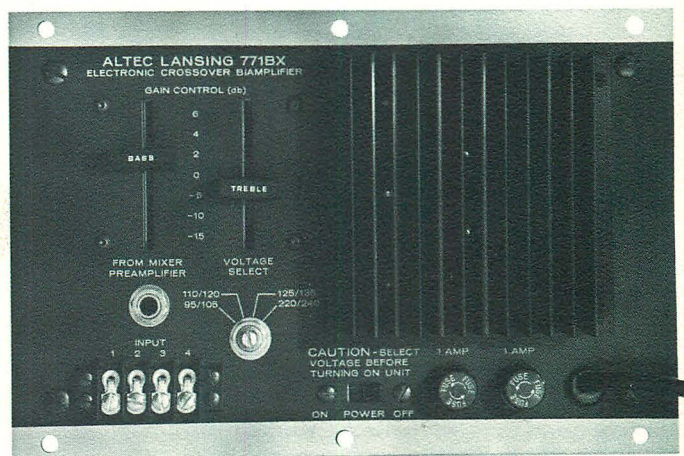
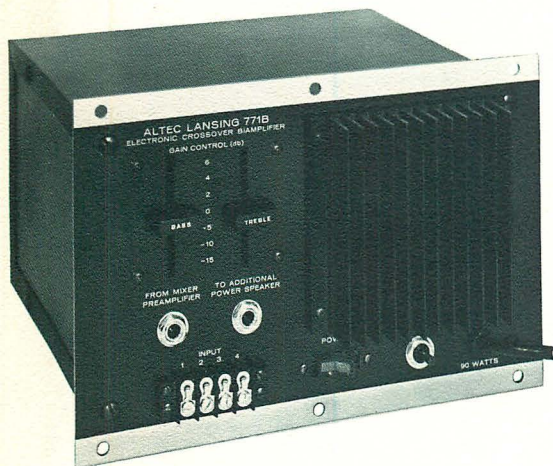


# 771B and 771BX Electronic Crossover Biampifiers

**771B  
771BX**



The ALTEC 771B and 771BX Electronic Crossover Biampifiers improve power handling and reduce distortion without requiring a high-power amplifier and separate crossover network.

## Electronic Crossover with Separate Power Amplifiers

These ALTEC biampifiers include electronic crossover circuitry and separate low-frequency and high-frequency amplifiers in a single, compact package that can be mounted directly in the speaker enclosure. The electronic crossover circuit divides the input signal into separate bass and treble channels. A 60-watt amplifier drives the low-frequency loudspeaker and a 30-watt amplifier drives the high-frequency driver. With separate amplifiers for each speaker, extreme power demand of the low-frequency amplifier does not affect high-frequency reproduction.

## Full Amplifier Power and Efficiency

Full amplifier output is distributed to the speakers because the electronic crossover circuitry is placed ahead of the power amplifiers.

## Versatile Input Connections

Input connections may be made three ways:

1. High-impedance (80,000 ohms) paralleled phone-jack inputs for paralleling up to twenty 771B's.
2. High-impedance (80,000 ohms) connections at INPUT terminal board terminals 1 and 2.
3. Optional 600-ohm balanced input by means of INPUT terminal board terminals 2, 3 and 4 and 15095 or 15356 transformers.

## Fail-Safe Protection for Output Transistors

ALTEC's Active Dissipation Sensing Circuit provides fail-safe protection for the output transistors. The action of the sensing circuit is immediate and effective at all frequencies within the passband of the biampifier, limiting only that portion of the program material that would damage or degrade the performance of the output transistors.

The ALTEC 771BX Biampifier is similar to the 771B, except that voltage selection and fusing is provided for line power. The jack for connecting two or more biampifiers into multiple systems is not provided.

**ALTEC**<sup>®</sup>

1515 S. Manchester Ave., Anaheim, Calif. 92803

# ALTEC 771B 771BX

## SPECIFICATIONS

<b>Type:</b>	Biampifier with electronic crossover	<b>Noise Level:</b>	80 dB below rated output
<b>Gain at Rated Output — Bass Amplifier:</b>	52 dB with 15356 Line Transformer 66 dB with 15095 Line Transformer	<b>Controls:</b>	1 BASS GAIN CONTROL, continuously variable, +6 dB to -15 dB 1 TREBLE GAIN CONTROL, continuously variable, +6 dB to -15 dB 1 ELECTRONIC CROSS-OVER FREQUENCY switch, 500 Hz/800 Hz/1500 Hz 1 POWER switch 1 PRESS TO RESET pushbutton (circuit breaker). Model 771B only. 1 VOLTAGE SELECT switch. Model 771BX only.
<b>Treble Amplifier:</b>	49 dB with 15356 Line Transformer 63 dB with 15095 Line Transformer	<b>Power Requirements:</b>	120V, 50/60 Hz, 90 watts. Model 771B only. Selectable 95V to 240V, 50/60 Hz, 90 watts. Model 771BX only.
<b>Input Sensitivity for Rated Output:</b>	0.5V rms direct 0.5V rms with 15356 Line Transformer 0.1V rms with 15095 Line Transformer	<b>Dimensions — Overall:</b>	6-1/2" H x 9-7/8" W x 9" D
<b>Power Output — Bass Amplifier:</b>	60 watts at less than 0.5% THD	<b>Panel Cutout:</b>	5-1/2" H x 9-1/2" W
<b>Treble Amplifier:</b>	30 watts at less than 0.5% THD	<b>Weight:</b>	16 pounds
<b>Total Harmonic Distortion (THD):</b>	Less than 0.5% at rated power, 20 Hz to 20 kHz	<b>Color:</b>	Black
<b>IM Distortion:</b>	Unmeasurable by normal IHF method	<b>Accessories:</b>	ALTEC 15095 Line Transformer ALTEC 15356 Line Transformer
<b>Crossover Frequency:</b>	500, 800 or 1500 Hz with 12 dB/octave slope	<b>NOTE</b>	
<b>Frequency Response:</b>	±1 dB from 20 Hz to 20 kHz (normalized composite output)	Accessories MUST BE ORDERED SEPARATELY.	
<b>Input Impedance:</b>	80,000 ohms direct 600 ohms with 15356 or 15095 Line Transformer		
<b>Load Impedance:</b>	8 ohms nominal for each amplifier		
<b>Damping Factor:</b>	25		

### ARCHITECT'S AND ENGINEER'S SPECIFICATIONS

The electronic crossover biampifier shall be a solid-state device with all transistors and diodes of the silicon type. The domestic model shall contain a power supply capable of operating from a 120V, 50/60 Hz line. The export model shall contain a power supply with a voltage select switch to enable it to operate from a 50/60 Hz line of 95/105V, 110/120V, 125/135V or 220/240V. The biampifier shall contain electronic crossover circuitry, separate LF and HF power amplifiers and fail-safe protective circuitry for the output transistors. The biampifier shall be capable of meeting the following performance criteria. Amplifier outputs; 60 watts bass, 30 watts treble. Bass gain at rated output; 52 dB with 15356 line transformer accessory, 66 dB with 15095 line transformer accessory. Treble gain at rated output; 49 dB with 15356 line transformer accessory, 63 dB with 15095 transformer accessory. THD, less than 0.5% at all frequencies from 20 Hz to 20 kHz. Input sensitivity for rated output; 0.5V rms direct or with 15356 line transformer accessory, 0.1V rms with 15095 line transformer accessory. Crossover frequency; 500, 800 or 1500 Hz, selectable, with 12 dB/octave slope. Input impedance; 80,000 ohms direct, 600 ohms with line transformer accessory. Load impedance, 8 ohms nominal, each amplifier. Noise level, 80 dB below rated output. Each channel shall have a separate slide-type gain control, continuously variable from +6 to -15 dB. The biampifier shall be mountable in a wide variety of speaker enclosures. Its overall dimensions shall be 6-1/2" H x 9-7/8" W x 9" D, its panel cutout dimensions shall be 5-1/2" H x 9-1/2" W, and its weight shall be 16 pounds.

The electronic crossover biampifier for domestic use shall be the ALTEC Model 771B Electronic Crossover Biampifier.

The electronic crossover biampifier for export use shall be the ALTEC Model 771BX Electronic Crossover Biampifier.

The line transformer accessory shall be the ALTEC Model 15356 Line Transformer or the ALTEC Model 15095 Line Transformer.

### NOTICE

We recommend that you obtain your Altec products from factory trained authorized Altec Sound Contractors and Distributors. This will assure you of proper installation, a continuing source of knowledgeable advice, service, and quick warranty protection.