

# THE CONCERT GRAND

Supreme Achievement in High Fidelity Loudspeaker Systems

In most fields of endeavor there is one product that achieves enduring fame, usually because it sets performance standards so far in advance of its competitors that decades pass before others can equal it or because it has the kind of design simplicity that defies aging.

Among automobiles the Rolls Royce Flying Cloud is such a product. Among violins there is the Stradivarius.

And, among loudspeakers for home music systems, the Bozak Concert Grand has, for a quarter century, been, and continues to be, the standard by which all others are judged — both for performance and for the ageless

design and fine craftsmanship exemplified in its furniture enclosures.

That a single loudspeaker should achieve and retain such a paramount position is not happenstance. The underlying reason, of course, is that the Concert Grand is the ultimate result of Mr. R. T. Bozak's personal engineering philosophy — to adhere as closely to the unchanging laws of physics as the latest technology will permit. It is a philosophy that applies not only to the Concert Grand, but also to every other speaker system in the Bozak line.

The magnificent Concert Grand is comprised of 14 component speakers in a cabinet designed to enclose the volume of air required

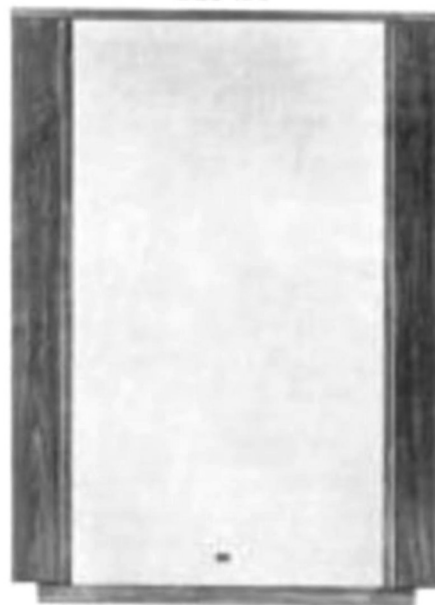
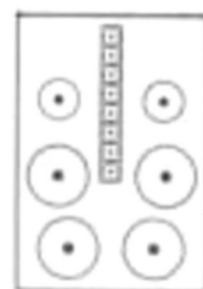
to permit the four bass speakers to provide their optimum performance.

The speakers — four B-199A bass, two 16-ohm B-209B mid-range and eight B-200Z treble — provide every nuance of music in its true form — from bass in which each note is distinct, through mid-ranges so natural that every instrument of the orchestra is identifiable to a sweet and clear treble without a hint of shrillness.

Concert Grand's may be ordered wired for bi-amplification, in which bass frequencies are amplified separately from the upper registers, if desired.

In the B-310B version in the Contem-

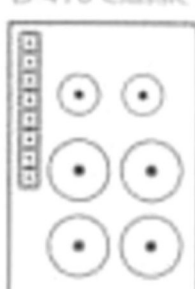
B-310B and  
B-410 Moorish  
36"W x 19"D x 52"H  
225 lbs



B-410 Moorish  
36 1/4"W x 18 1/4"D x 50 1/4"H  
225 lbs



B-410 Classic  
36"W x 19"D x 52"H  
225 lbs



porary enclosure and the B-410 in the Moorish enclosure, the treble speakers are arranged in a vertical line, for the broadest possible horizontal distribution of high frequencies, in the center of the speaker so that speakers are symmetrical and left and right speakers are interchangeable. In the B-410 in the Classic enclosure, tweeters are arranged in a vertical line on one side or the other so that left hand and right hand speakers are sold in matched pairs.

All cabinets have true walnut veneer surfaces with a matte finish.

Truly, there is only one way to understand what a vast difference there is among loudspeakers and that is to hear the Concert Grand for yourself.

May be ordered wired for bi-amplification at no extra cost.

**Frequency Response:** 28 to 20,000 hertz

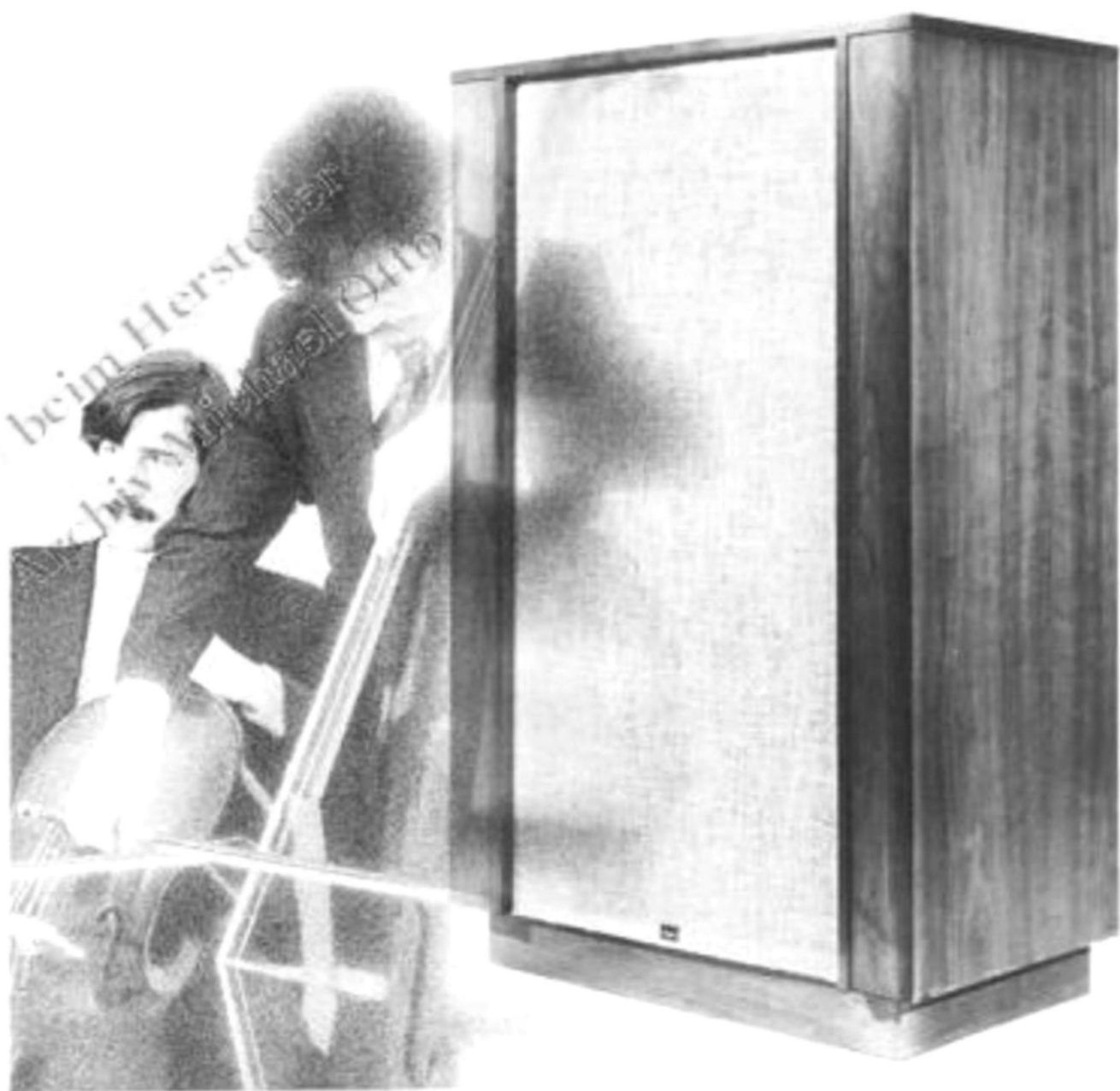
**Impedance:** 8 ohms nominal

**Power-Handling Capacity:**

150 watts maximum; 60 watts minimum

**Crossovers:**

6 dB per octave at 400 and 2500 hertz



# THE SYMPHONY SERIES

For the Perfectionist without Concert Grand Space

Admittedly not everyone whose musical perception would permit full appreciation of the Concert Grand has a room large enough to take full advantage of its power-handling capacity or to accommodate its enclosure.

For those connoisseurs Bozak has designed the Symphony series of speakers. These speakers, Models B-4000A and B-4005, so closely approach the performance of the Concert Grand that, in a medium-sized room, even audio experts have difficulty distinguishing between the two.

The Symphony series speakers have

identical components to the Concert Grand, the only difference being that the Symphony series has two B-199A bass speakers, rather than four, and one B-209B mid-range, instead of two. The essential difference, then, is in the power-handling capacity in the lower frequency ranges, compatible with the Symphony's intended use in rooms smaller than the auditorium-sized spaces required for full appreciation of the Concert Grand. Symphony speakers have a full complement of 8 B-200Z treble speakers.

The result is a finely delineated musical performance, from rich, true, full-bodied bass

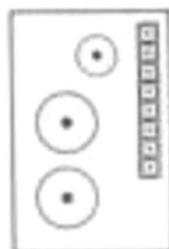
through exquisite midtones to smooth, warm highs.

Symphony series speakers are available wired for bi-amplification, if desired.

Model B-4000A, Symphony No. 1, available in two cabinet styles, is housed in a highboy enclosure with the tweeters in a line array at one side of the cabinet or the other, providing matched stereo pairs of left and right speakers.

Model B-4005, Symphony No. 2, also available in two cabinet styles, features lowboy cabinetry with the tweeters in a hemispherical

B-4000A,  
Symphony No. 1  
B-4000A, Modern  
26½"W x 15½"D x 44½"H  
165 lbs.



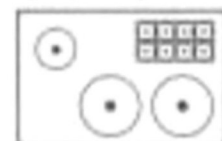
B-4000A, Moorish  
27"W x 16½"D x 44"H  
165 lbs.



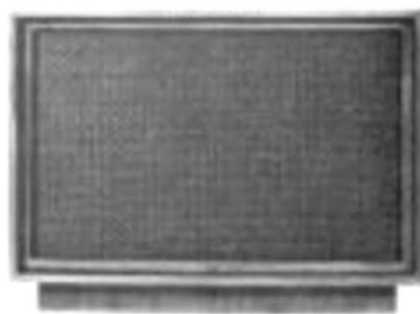
B-4000A, Classic  
26"W x 15½"D x 44½"H  
165 lbs.



B-4005,  
Symphony No. 2



B-4005, Century  
36"W x 20"D x 27½"H  
150 lbs.



array in the upper left or upper right, again to provide mirror-image pairs.

The choice between the models is essentially one of visual taste; musical performance is comparable.

All cabinets have true walnut veneer surfaces with a soft matte finish.

Your Bozak dealer will be proud to let you judge the superlative performance of Symphony series speakers for yourself. He knows that it stands above all other speakers save the Concert Grand.

May be ordered wired for bi-amplification at no extra cost.

**Frequency Response:** 35 to 20,000 hertz

**Impedance:** 8 ohms nominal

**Crossovers:** 6 dB per octave;  
at 400 and 2500 hertz

**Power-Handling Capacity:**

100 watts maximum; 50 watts minimum

**B4005, Moorish**

39"W x 20 $\frac{1}{4}$ "D x 30"H  
190 lbs.



# COMPACT SPEAKERS

Bozak quality for smaller rooms

## CONCERTO VI

The largest of Bozak's line of compact speakers, the Concerto VI has ample power-handling capacity for any but the very largest rooms. A true three-way system, its speaker complement includes the famed 12-inch Bozak B-199A bass speaker; the patented B-209B mid-range driver and the dual B-200Z tweeter array.

This combination of the very same speakers used in the largest Bozak systems, combined with a passive RC crossover network, provides a full spectrum of true sound from natural bass through clear midtones to the highest shrill-free treble.

A three-position Acoustical Contour switch permits adjustment of the output fre-

quency response to accommodate varying room acoustics or individual preferences.

Available as Model B-401, a vertical free-standing unit with a pedestal base and a sculptured foam grille, or as Model B-402, a bookshelf version, which can be used vertically or horizontally, with a cloth grille. Both have all exposed surfaces in true walnut veneer with a waterproof matte finish.

If your circumstances require a compact speaker, there is no better choice than the Concerto VI.

**Frequency Response:** 40 to 20,000 hertz

**Impedance:** 8 ohms nominal

**Power-Handling Capacity:** 15 watts minimum; 60 watts maximum

**Crossovers:** 6 dB per octave at 800 and 2500 hertz

## TEMPO

The most compact three-way system in the Bozak line is available in two versions.

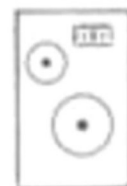
Model B-301FD is a free-standing model with a pedestal base and a sculptured foam grille. Its exposed surfaces are true walnut veneer with a waterproof matte finish.

Model B-301CD is a bookshelf version without pedestal, usable vertically or horizontally. All surfaces except the back are covered with simulated walnut vinyl. The grille is in a color-coordinated fabric.

Both enclosure types are ducted to provide optimum bass performance for modern music.

The speaker complement includes the

B-401 and  
B-402 Concerto VI



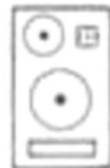
**B-401, Concerto VI**  
18" W x 13 1/4" D x 25 1/2" H  
65 lbs.



**B-402, Concerto VI**  
25 1/4" W x 13 1/4" D x 18" H  
65 lbs.



B-301CD and  
B-301FD, Tempo II



**B-301FD, Tempo II**  
14 1/2" W x 11 1/2" D x 24 1/2" H  
40 lbs.



Bozak B-199A bass speaker; the B-450 mid-range, especially developed by Bozak engineers to provide true reproduction in such a small enclosure, and a single B-200Z tweeter.

The result is bass without artificial boom, mid-range tones of a clarity not found in any other speaker of this size and shrill-free smoothness in the upper ranges.

An L-C crossover network transfers the sound smoothly from one component speaker to another at a 6 dB per octave rate. An acoustical Contour Switch permits varying the output frequency response from Normal (flat) to Bright or Mellow to suit room acoustics.

**Frequency Response:** 40 to 20,000 hertz

**Impedance:** 8 ohms nominal

**Power-Handling Capacity:** 15 watts minimum;  
50 watts maximum

**Crossovers:** 6 dB per octave at 1200 and  
3600 hertz

**B-301CD, Tempo II**

14½"W x 11½"D x 23½"H

40 lbs.



## SONORA

Among bookshelf speakers Model B-201 is distinguished by the openness, clarity and solidity of its sound. Its efficiency is such that it provides faithful reproduction even when driven by the low-powered amplifiers used in smaller rooms.

To achieve this high-level of performance in such a small two-way system, Bozak engineers developed both a special component speaker, Model B-800B, to handle the bass and mid-range frequencies and a vented enclosure to assure open bass tones.

For treble frequencies a single B-200Z tweeter is employed. A smooth 6 dB per oc-

tave crossover is at 1800 Hz.

Model B-201A employs an enclosure of Bozak's standard hardboard with decorative surfaces in simulated walnut vinyl with a matching fabric grille.

**Frequency Response:** 45 to 20,000 hertz

**Impedance:** 8 ohms nominal

**Power-Handling Capacity:** 12 watts minimum;  
60 watts maximum

**Crossovers:** 6 dB per octave at  
1800 hertz

**B-201A, Sonora**

20½"W x 10"D x 11½"H

30 lbs.

B-201A, Sonora



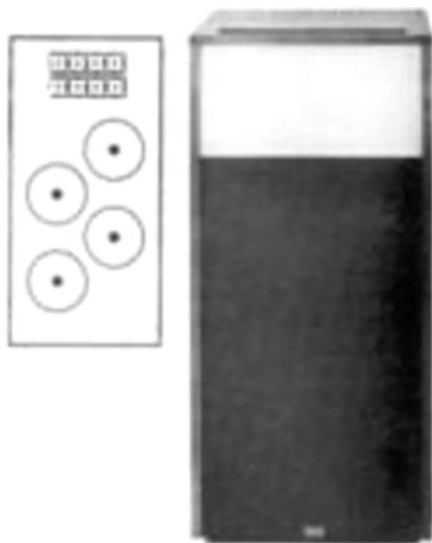


Based on the Bozak designs used in professional recording studios, where it is important for performers to hear their own work as precisely as possible, MONITOR-C has been incorporated into a fine furniture enclosure suitable for the home environment.

MONITOR-C, Model B-407A, represents true state-of-the-art performance. It is characterized by an extremely smooth frequency response over the range from 35 to 20,000 hertz and by its ability to develop high power levels without break-up. With its minimal distortion and outstanding transient response, it lets the listener truly hear the "attack" of every orchestral instrument — each in its true timbre.

High frequency dispersion, due to the unusual and exclusive treble speaker array, is

**B-407A, Monitor C**  
18½"W x 15½"D x 41"H  
100 lbs.

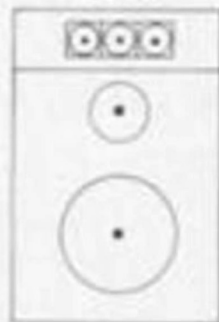


## CONCERTO VII Full-sized Bozak sound for modest-sized rooms



© beim Hersteller  
Archiv Michael Otto

20 1/4" W x 16" D x 32 1/4" H  
90 lbs.



To the music listener who insists on the purity of reproduction which only a full-sized speaker enclosure can provide, even though his room will not accommodate a Concert Grand or Symphony system, Bozak dedicates Concerto VII, the newest speaker in Bozak's "music comes alive" line.

A three-way system, Model B-501 incorporates component speakers identical to those used in the Concert Grand. Clean robust bass is provided by the famed B-199B woofer. Crystal clear midtones are created by the celebrated B-209B midrange driver. The smoothest, clearest treble sound available from any speaker anywhere is a result of a 3-unit array of Bozak's newly designed B-200Z tweeters.

The listener can match the output sound characteristics to his taste or to the acoustics of his room by means of a three-position treble switch on the back of the speaker enclosure. The switch provides flat reproduction for the audio purist; an added degree of brightness for those who prefer that characteristic, or a smooth, mellow extended range for those with more conservative tastes. It is truly a loudspeaker for all ears.

Attractively styled with a sculptured foam grille, it enhances nearly any decor. The genuine full-thickness walnut veneer is finished in rich Bozak matte walnut. Bozak's finish is waterproof and alcoholproof.

**Frequency Response:** 40 to 20,000Hz

**Impedance:** 8 ohms nominal

**Power-Handling Capacity:** 15 watts minimum,  
80 watts maximum

**Crossover:** 6 dB per octave at 400 and 2500  
hertz

# BOZAK COMPONENT SPEAKERS

All Bozak speaker systems are combinations of these components. They have design and manufacturing features that are not duplicated by any competitive units. Untiring quality control ensures that no component ever leaves the Bozak factory without testing and inspection to assure that all specifications shown are met. This uniformity of Bozak component speakers assures compatibility and exchangeability of units even though they are manufactured years apart.

## B-199Bc Bass Speaker

**Response\***, 35 to 4,500 Hz/**Impedance**, specify 8 ohm or 16 ohm/**Power rating**, 25 watts/**Resonance**, less than 35-Hz in free air/**Dimensions**, 12½" OD, 5¾" deep/**Recommended enclosure**, infinite baffle stiffened and acoustically lined/**Cavity**, 5 cu. ft. for one, 8 cu. ft. for two, 16 cu. ft. for four/**Weight**, 9½" lbs.

\*... extended by use in multiples.

## B-209Bc Midrange Speaker

**Response**, 65 to 16,000 Hz/**Working range**, 150 to 3,500 Hz/**Impedance**, specify 8 ohm or 16 ohm/**Power rating**, for use singly in Bozak 25- to 75-watt Concert Series systems/**Resonance**, none acoustically, 86 Hz electrically/**Dimensions**, 6½" OD, 3" deep/**Enclosure**, in bass cavity or ½ cu. ft. lined cavity/**Weight**, 7½ lbs.



## B-200ZAc Treble Array

**Response**, 1500 to 20,000 Hz/**Impedance**, 8 ohms/**Power rating**, for use in Bozak 100-watt systems/**Dimensions**, 12" wide, 6¾" high, 4¾" deep/**Weight**, 14 lbs.



## B-200Zc Treble Speaker Dual Unit

**Response**, 1500 to 20,000 Hz/**Impedance**, 8 ohms (two 16-ohm sections in parallel)  
**Power rating**, for use in Bozak 25-watt systems/**Dimensions**, 6½" wide, 3¼" high, 1½" deep/**Weight**, 2½ lbs./**Mounting**, coaxially on B-199A or as described elsewhere.



## B-300Bc Wide-Range Speaker

(also used as bass or mid-range speaker)

**Response**, 50 to 16,000 Hz/**Impedance**, specify 8 ohm or 16 ohm/**Power rating**, 25 watts/**Resonance**, 38 Hz/**Dimensions**, 8¼" OD, 3¼" deep/**Weight**, 8½ lbs./**Enclosure**, 1½ cu. ft. min.



## B-450 Mid-Range/Full-Range Speaker

**Response**, 100 to 8,500 Hz/**Impedance**, specify 8 or 16 ohm/**Power rating**, 50 watts as system mid-range/**Resonance**, 120 Hz/**Dimensions**, 4¼" square, 2½" deep/**Weight**, 1½ lbs./**Enclosure**, volume determined by low frequency cut-off of cross-over.



## B-207Bc Full-Range Two-Way System

One each B-199B bass and B-200Y mounted coaxially on a rugged cast-aluminum frame with 4-mfd condenser/**Response**, 40 to 20,000 Hz/**Dimensions**, 12¾" OD, 6" deep/**Weight**, 14½ lbs./**Enclosure**, infinite baffle, minimum 5 cu. ft. for one, 8 cu. ft. for two units.

**N-101A**, High-level LC Passive 8-ohm Crossover Network for Three-Way Speaker Systems. Crossovers at 800 and 2,500 Hz at 6 dB per octave. Weight, 2½ lbs.

**N-104B**, High-Level LC Passive 8-ohm Crossover Network for Three-Way Speaker Systems. Crossovers at 400 and 2,500 Hz at 6 dB per octave. Weight, 2½ lbs.

## Bi-Amping Networks

**N-106A**, A low-level electronic stereo two-way crossover used in bi-amplification in which separate amplifiers are used to drive bass and mid/treble frequency bands for utmost performance. It is inserted between the control/pre-amplifier unit and the power amplifiers to separate low and mid frequencies at low-level. Input power is 115-volt AC. Crossover is 6 dB per octave at 400 Hz. One is required in a bi-amp system.

**N-107**, A speaker network which, in bi-amp systems, provides midrange to-treble crossover. It is a high-level passive LC-network requiring no external power. Crossover is at 6 dB per octave at 2,500 Hz. One is required for each speaker system when using N-106A.



# BI-AMPLIFICATION

Ultimate step toward perfection

Bi-amplification is a system in which low and high frequencies are separated before power amplification and then amplified separately.

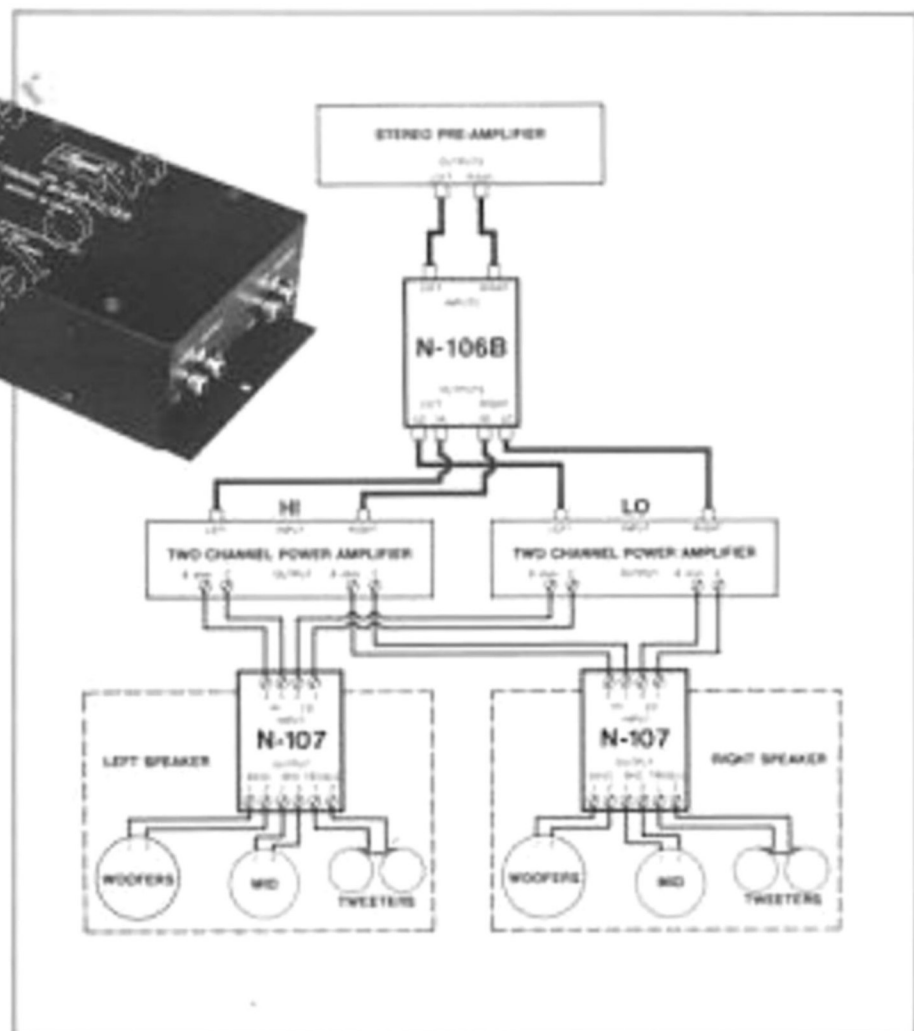
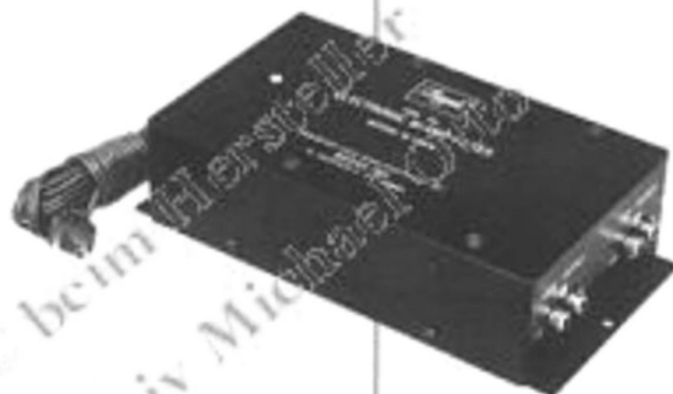
Such a system reduces cross-modulation distortion between high and low frequencies, such as occurs when all frequencies are amplified by a single amplifier. It also improves both phase and amplitude control over the loudspeakers by the total utilization of the much higher damping and peak power available with modern high-quality solid-state amplifiers such as Bozak Models 929 and 939.

The arrangement provides an effective peak power performance for amplifiers of 4 times the ratings used with conventional high-level crossovers.

The system requires the use of two stereo power amplifiers and of the Bozak N-106B Electronic Bi-Amp Filter. The N-106B performs the function of dividing the output frequencies from the stereo pre-amplifier into frequencies below 400 hertz and above 400 hertz. Each frequency band is then directed to its own amplifier.

In addition, the crossover networks normally used in three-way speaker systems are replaced by Bozak N-107 networks. The N-107 feeds the frequencies below 400 hertz directly to the bass speaker. It divides the upper frequencies into midrange and treble at a crossover frequency of 2500 hertz. The 400-2,500-hertz band is directed to the midrange speaker(s); the above 2,500 hertz frequencies go to the treble speaker. All crossovers are at 6 dB per octave.

Naturally, such a system is at its very best when used with major speaker systems such as the Bozak Concert Grand or Symphony series. The result then is the closest thing to perfect reproduction available from current technology. It is truly the ultimate goal of the purist audiophile.



# SPEAKER "GROWTH" For the Budget Conscious

As you may have noted in the introductory section of this catalog, Bozak recommends using the largest speaker systems which your room can comfortably accommodate.

However, Bozak realizes that not everyone with the space for major speaker systems has immediately available the investment required for such systems.

Fortunately, the compatibility and interchangeability of Bozak component speakers, year after year, makes it possible for Bozak

speaker systems to "grow". You can invest in a large enclosure and a basic speaker system for a relatively small amount. Then, through the years, you can add component speakers until you have achieved the full complement.

To aid you in such a venture, Bozak offers a step-by-step plan for ultimately acquiring the Concert Grand, Symphony No. 1 or Symphony No. 2 system.

First, you buy the enclosure and the basic speaker system, then add components

in one of the orderly sequences indicated in the drawings below.

For those wishing to achieve maximum economies, Bozak even offers the B-4000A Modern enclosure in kit form. All lumber is pre-cut, and all necessary assembly hardware and instructions are provided. Anyone with minimum woodworking experience can assemble the enclosures. The genuine walnut veneer surfaces can then be finished to your individual taste, or Bozak offers, as a kit, the materials to achieve the matte walnut finish provided on factory-assembled enclosures.

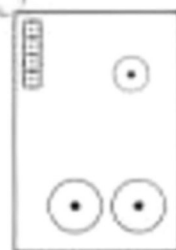
## To Reach: Concert Grand



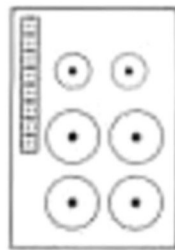
Begin with  
E-410 or E-310B Enclosure,  
B-199B 8-OHM Bass,  
B-200Z Treble Pair  
and  
N-4 Condenser



Add second  
B-199B 8-Ohm Bass  
and  
second  
B-200Z Treble Pair

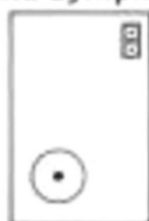


Add B-209B  
16-Ohm Midrange  
and  
N-104B  
Crossover Network

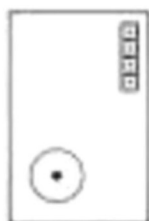


Add two more  
B-199B 8-Ohm Bass,  
a second  
B-209B 16-Ohm Midrange,  
two B-200Z Treble Pairs

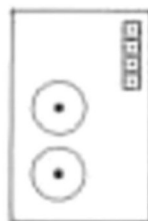
## To Reach: Symphony No. 1 and Symphony No. 2



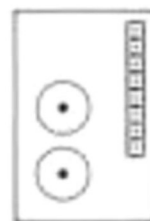
Begin with  
E-4000 Enclosure,  
B-199B 16-Ohm Bass,  
B-200Z Treble Pair  
and N-4 Condenser



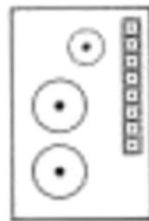
Add another  
B-200Z Treble Pair



Add a second  
B-199B 16-Ohm Bass



Add two more  
B-200Z Treble Pairs  
and  
a second N-4 Condenser



Complete with  
B-209B 8-Ohm Mid  
and  
N-104B Crossover Network

# ENCLOSURE KITS

For custom finishes, creative enjoyment and reduced investment

On the preceding page, the unique Bozak "speaker growth" concept was described. It allows the audiophile to start with a modest speaker system in a major speaker enclosure and then to add component speakers, building toward the ultimate goal of a Bozak Concert Grand or Symphony speaker system. In that way the forward-looking audiophile can begin enjoying the "very best in music" immediately and expand speaker performance periodically to suit his growing needs.

A further extension of that concept are the Bozak enclosure kits which further reduce the initial investment an audiophile need make.

Beyond economy, many music lovers have elected to assemble their own Bozak

speaker enclosures for the sheer joy of working with fine materials or for the purpose of achieving custom finishes to achieve desired decorative effects.

Bozak offers two speaker enclosure kits so that the audiophile can assemble either a Concert Grand or a Symphony enclosure. The Concert Grand enclosure is of the B-310B Contemporary design; the Symphony, of the B-4000A Modern styling.

Both kits are complete with all pieces cut and sanded, ready for assembly. All necessary hardware, adhesives, acoustical lining and grille cloth are included. You must supply a screwdriver and, for the Concert Grand, furniture clamps to hold the cabinet while adhesives are setting. A staple gun is useful for attaching the grille cloth.

The work required is merely that of assembly. Anyone who can use a screwdriver and a glue brush can put a kit together in a thoroughly professional manner. Step-by-step instructions have been thoroughly field tested.

The genuine walnut veneer surfaces can be finished as the assembler desires. Should he desire to achieve the same matte walnut finish as is used on Bozak factory assembled enclosures, Bozak also has available a finishing kit especially formulated to achieve that finish under home application conditions.

If you enjoy working with wood, if you want a special finish or if you wish a full-sized speaker enclosure with maximum economy, you should start with a Bozak enclosure kit.

