JBL JAMES B. LANSING SOUND, INC., LOS ANGELES, CALIFORNIA, U.S.A.

LOUDSPEAKERS

AMPLIFIERS

PREAMPLIFIERS



GENERAL INFORMATION

THE COMPANY James B. Lansing Sound, Inc. was founded in 1946. The company was one of the pioneers in high quality theater loudspeaker systems and has introduced many basic advances in loudspeaker design, such as the acoustic lens, the ring radiator, the passive radiator, and the Paragon stereophonic reproducing system. Under the direction of President William H. Thomas, the company has grown to a position of major importance in the production of the highest quality professional high fidelity equipment.



BARON 130



D130



BARON 030



D130



075



N2400



BARON 032



D123



LE20



LX2

THE PRODUCTS The products presented in this catalog are unquestionably the finest available. JBL transducers are carefully engineered instruments; painstakingly crafted and assembled to watchmaker's standards. JBL acoustical enclosures are elegant, solid, and flawlessly finished. JBL electronics components are remarkable examples of modern engineering, delivering the full promise of solid state circuitry. Together, they offer you the incomparable "JBL sound" and will provide you with years of pleasurable listening.

WARRANTY An unconditional two-year warranty is provided with every JBL product. Moreover, because we believe that a fine loudspeaker, like a fine musical instrument, should never wear out — we will normally restore any transducer, regardless of age, which exhibits a defect traceable to faulty original workmanship or material.

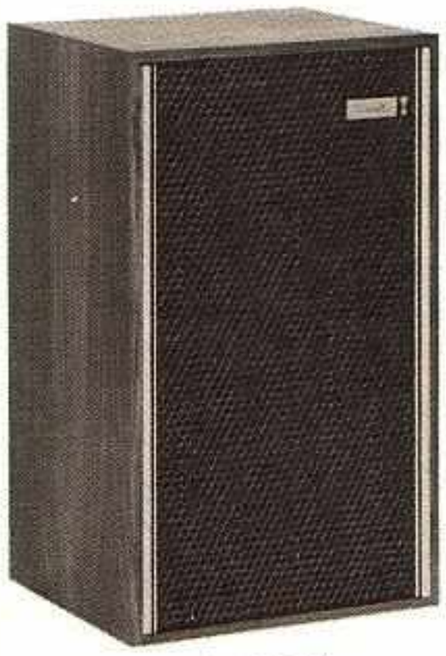
AMPLIFIER POWER REQUIREMENTS The rated power capacity of a loudspeaker has no direct relationship to the rated power output of the amplifier used. In music, instantaneous peaks can reach ten times the average program power. JBL loudspeakers can easily handle such momentary transients, and may be used with the most powerful high-fidelity amplifiers available with little danger of being damaged.

ORDERING LOUDSPEAKERS SEPARATELY The fine JBL components described in this catalog are available separately for installation in custom enclosures. In the systems shown here the acoustical enclosures are specifically designed to bring out the full capabilities of the JBL components installed.

JBL BARON 130 This system uses a 15-inch loudspeaker, the JBL D130 . . . perhaps the best known extended-range loudspeaker ever made. Its 4-inch edgewound aluminum ribbon voice coil responds accurately to intricate electrical waveforms and is tightly controlled by the 11 lb. magnetic assembly. A convex aluminum center dome reproduces high frequencies clearly and naturally. The reflex enclosure has provisions for later adding the 075 or LE175DLH high frequency transducer to make a perfectly balanced two-way system. Furnished in Oiled Walnut or Tawny Walnut. 24⅜" x 23¾" x 15⅞" deep. Shipping wt. 70 lbs. (JBL D38130)

JBL BARON 030 In this system, bass frequencies up to 2500 cps are generated by the JBL D130 15-in. loudspeaker described above. High frequencies are produced by the JBL 075 high frequency transducer, an exclusive JBL development utilizing a ring-shaped diaphragm driven by a 1¾-in. edgewound aluminum ribbon voice coil, coupled to a mach 1 aluminum horn of special configuration for efficient and natural reproduction of all audible frequencies above 2500 cps. The N2400 dividing network provided with a continuously variable control for adjustment of high frequency intensity, provides an attenuation of 12 db per octave on either side of the 2500 cps crossover point. Furnished in Oiled Walnut or Ta Walnut. 24⅜" x 23¾" x 15⅞" deep. Shipping wt. 78 lbs. (JBL D38030)

JBL BARON 032 In this system, the wide-range D123 12-in. loudspeaker reproduces frequencies up to 2500 cps. The D123, with a 6 lb. magnetic assembly and a 3-in. diameter edgewound aluminum ribbon voice coil, is especially noted for solid bass response in relatively small enclosures. Above the crossover point of 2500 cps, the LE20 covers the remaining audible range with utmost smoothness and clarity. The 2-in. piston in the LE20 transducer is edge-terminated in a unique manner which allows the unit to respond with exceptional smoothness from below 1000 cycles to frequencies well beyond the limits of aural perception. The JBL LX2 frequency dividing network is expressly designed for this system. Furnished in Oiled Walnut and Tawny Walnut. 24⅜" x 23¾" x 15⅞" deep. Shipping wt. 68 lbs. (JBL D38032)



LANCER 77



LE10A



PR10



LE20



LX4-2

JBL LANCER 77 This system delivers the full, spacious sound normally associated with much larger loudspeaker systems. It houses the LE20 high frequency transducer (described under BARON 032) and LE10A low frequency loudspeaker. The LE10A has a 3-in. edgewound copper ribbon voice coil and 6 lb. magnetic assembly. Special Lans-a-loy cone suspension allows long excursions without distortion. The LX4-2 crossover network controls the signal to the two transducers so that the listener is conscious only of a single sound source. The Lancer 77 also incorporates the PR10 passive radiator. (See explanation of passive radiators under Olympus.) Oiled Walnut finish. 14" x 23½" x 11¾" deep. Shipping wt. 46 lbs. (JBL L77)





LANCER 99



LX8



LE14A

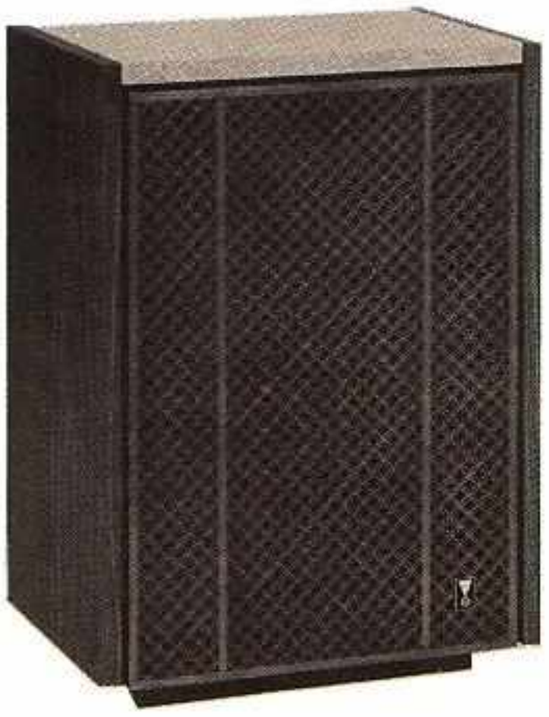


LE20



SE408SE

JBL LANCER 99 A matched stereo pair of loudspeaker systems with JBL Transducer Energizer installed in one enclosure. The Lancer 99 connects directly to the Graphic Controller or other preamplifier; no power amplifier needed. The 14-in. LE14A generates firm bass and smooth mid-range. LE14A has 11½ lb. magnetic assembly, 4-in. edgewound copper ribbon voice coil and special Lans-a-loy cone suspension. High frequencies are reproduced by the LE20, described under Baron 032. LX8 crossover network is designed specifically for these two transducers. Finished in Oiled Walnut or Tawny Walnut, with hand carved fretwork grilles. 14" x 23½" x 12" each. Shipping wt. (pair) 117 lbs. (JBL L99) *To order single loudspeaker system without Energizer, specify Model S99-1.*



LANCER 101



LX10

LE175DLH

LE14A

JBL LANCER 101 A moderately-sized system with marble top and wood fretwork grille. The LANCER 101 produces the full spacious sound usually associated with much larger systems. The massive LE175DLH high frequency assembly uses a precision driver with 1¾"-in. aluminum diaphragm driven by an edgewound aluminum ribbon voice coil. Sound from all parts of the diaphragm is conducted to the horn throat in correct phase relationship by a carefully machined 3-element phasing assembly. The cast aluminum horn is coupled to a 14-element acoustic lens which distributes high frequencies uniformly through a 90-degree angle. Low frequencies are reproduced by the LE14A bass loudspeaker. Frequency division between the two transducers is completely imperceptible. The LX10 crossover network is specifically designed to match the characteristics of the LE175DLH and LE14A. Furnished with Oiled Walnut or Tawny Walnut side panels. 23" x 17½" x 12⅜" deep. Shipping wt. 86 lbs. (JBL L101)



RHODES 001

N1200

LE175DLH



130A

JBL RHODES 001 This reflex system uses the LE175DLH high frequency assembly (described above) and the 130A 15 in. low frequency loudspeaker. The 130A has an 11 lb. magnetic assembly which maintains tight control over the 4-in. edgewound copper ribbon voice coil. The copper voice coil gives maximum power handling capacity in the bass range and greatest possible efficiency below 1200 cps. The N1200 frequency dividing network gives attenuation of 12 db per octave on either side of a 1200 cps crossover frequency. Finished in Oiled Walnut or Tawny Walnut. 28⅞" x 36" x 16" deep. Shipping wt. 106 lbs. (JBL D37001)



MINUET



LE8T



PR8

JBL MINUET This handsomely styled ultra-compact system houses the LE8T and PR8 passive radiator, as described under Lancer 44. Handcrafted wood grille complements Oiled Walnut cabinet finish. 16½" x 9" x 7¾" deep. Shipping wt. 21 lbs. (JBL L75)



LANCER 44

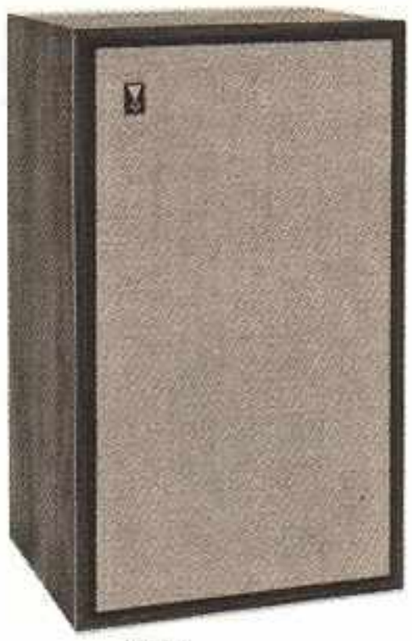


LE8T



PR8

JBL LANCER 44 Brilliant performance from the LE8T, a unique, loudspeaker with 6½ lb. magnetic structure, Lans-a-loy cone suspension, aluminum high frequency center dome, and 2-in. edgewound aluminum ribbon voice coil. Also includes PR8 passive radiator (operation of passive radiator described under JBL Olympus). Oiled Walnut enclosure measured 23½" x 12¾" x 11¾" deep. Shipping wt. 39 lbs. (JBL L44)



LIBRA

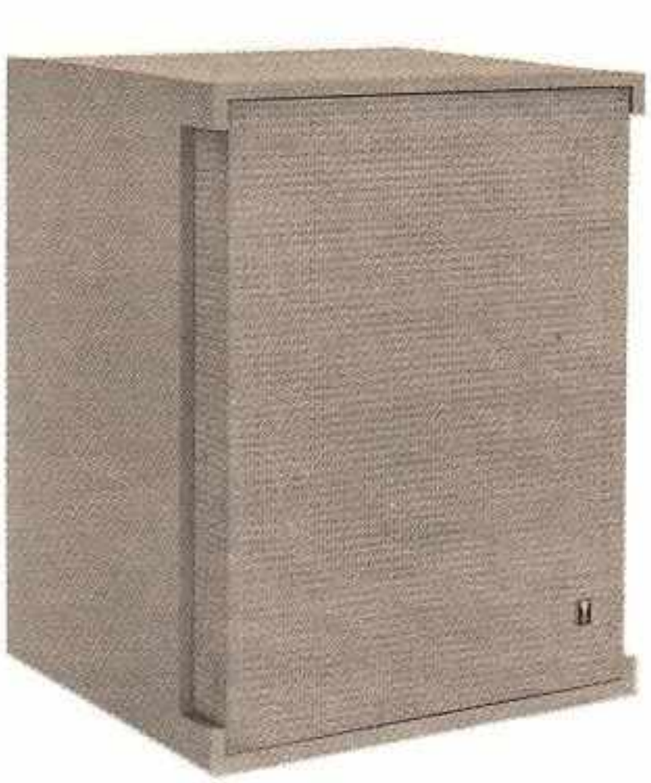


LX2-1



LE14C

JBL LIBRA The LE14C composite transducer h in the Libra consists of two independent transdu mounted on a common axis. The 14-in. bass loudspe has a 4-in. edgewound copper ribbon voice coil a Lans-a-loy cone suspension. Concentrically mounted is separate direct radiator high frequency unit. Mo LX2-1 crossover network is supplied with the LE14 Libra enclosure has ducted port to extend bass response. 23½" x 14" x 12½" deep. Shipping wt. 50 lbs. (JBL D53LE14C)



STUDIO MONITOR



LE85/HL91

LX5

LE15A

JBL STUDIO MONITOR This system is used as a master recording monitor in the United States by the recording studios of Capitol Records, Columbia Records, R.C.A., MGM-Verve and others because of its flat, smooth response and excellent spatial distribution. The professional grey hand-rubbed enclosure houses the LE15A, LE85, HL91 horn lens and LX5 network. The nominal impedance is 8-16 ohms. 30" x 23¾" x 20" deep. Shipping wt. 90 lbs. (JBL D50SMS7)



D208, D216



D130F

JBL D130F GUITAR LOUDSPEAKER Unchalleng world's leader. A heavy duty 15-in. loudspeaker especi designed for use with electric musical instrume Used by more professional musicians throughout world than any other loudspeaker. Will replace any 1 guitar loudspeaker to give brighter sound, more sound with less amplifier power, and greater resistance to breakdown. Shipping wt. 18 lbs.

JBL D208 and D216 Smaller version of the famous JBL D130. Extremely efficient 8-in. units noted especially for bright, clear mid-range. For high quality extension speakers, sound reinforcement systems, and general use. Two-inch edgewound aluminum ribbon voice coil and 3½ lb. magnetic assembly. D208: 4-8 ohms, D216: 8-16 ohms. Shipping wt. 4.8 lbs.

JBL PARAGON STEREOPHONIC REPRODUCER Originally developed as a master monitor in perfecting stereo recordings, the Paragon creates a single three-dimensional source of sound for each listener in the room. There is no "hole in the middle", no "split soloist" to mar the illusion of a live performance. The Paragon contains two LE15A low frequency loudspeakers, two 375 high frequency drivers, two H5038P horns, two 075 Ring Radiators, two LX5 networks and two N7000 networks. The brilliant mid-range and impeccable transient response of the Paragon are due primarily to the 375 drivers. Each 375 has a 4-in. hydro-pneumatically formed diaphragm, driven by a 4-in. edgewound aluminum ribbon voice coil. Sounds of explosive loudness are reproduced effortlessly. Like other JBL loudspeaker systems, the Paragon is available self-Energized. With the Energizer installed, performance is unquestionably the finest which can be presently achieved. Finished in Tawny Walnut or Oiled Walnut. 35¼" x 103⅝" x 24 1/16" deep. Shipping wt. 694 lbs. (JBL D44000)



PARAGON

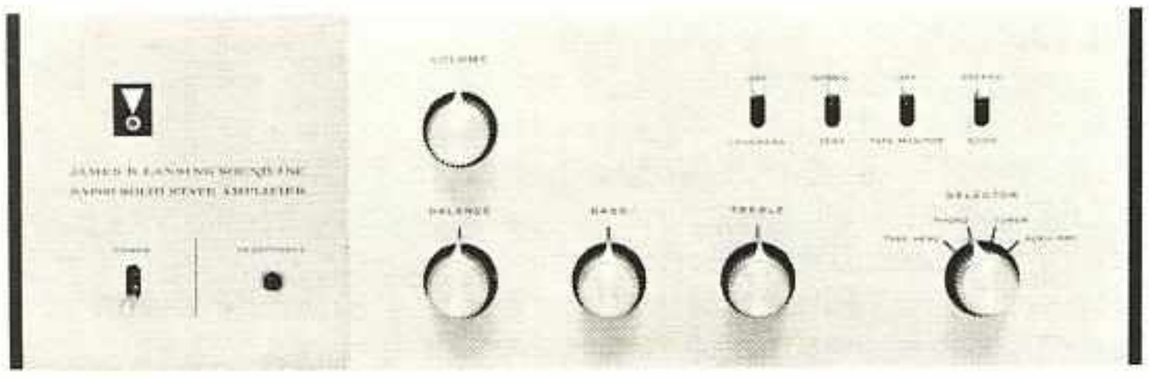




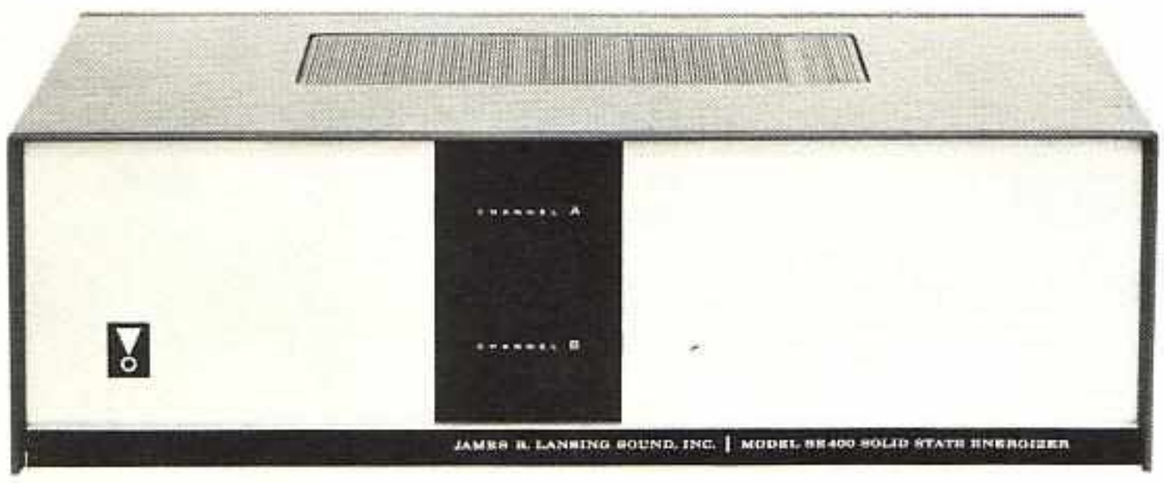
OLYMPUS

JBL OLYMPUS This loudspeaker system reproduces all frequencies with such precision that the recreated performance can hardly be distinguished from the original. Bass fundamentals are generated by the 15-in. LE15A low frequency loudspeaker. This is a Linear Efficiency transducer with a 19½ lb. magnetic assembly, 4-in. edgewound copper ribbon voice coil and a long travel cone with Lans-a-loy edge termination. A second 15-in. unit, the PR15 Passive Radiator, is an exclusive JBL development which increases bass output. This unit is pneumatically coupled to the active LE15A transducer at low frequencies, effectively doubling the cone area for reproduction of frequencies below 100 Hz, resulting in more robust bass performance and greater dynamic range. By providing correct acoustic loading the passive radiator also reduces distortion and at the same time increases power handling capacity and offers smoother response well up into the mid-range. The mid-range and high frequencies are crisply articulated by the LE85, a precision driver coupled to a cast aluminum exponential horn and slant-plate acoustical lens. This unit has a highly efficient magnetic assembly and an impedance controlling ring of pure silver for maximum linearity beyond the upper limit of audibility. Its 1¾-in. hydro-pneumatically formed diaphragm is driven by an edgewound aluminum ribbon voice coil. The LX5 frequency dividing network expressly designed for the Olympus provides smooth and imperceptible crossover at 500 Hz. Spatial distribution of sound is exceptionally wide and remains uniform through the crossover region. The Olympus enclosure incorporates a hand-carved wooden fretwork grille and is available in Oiled Walnut, Tawny Walnut or Danish Teak. 26½" x 40" x 20" deep. Shipping wt. 165 lbs. (JBL D50S7R)

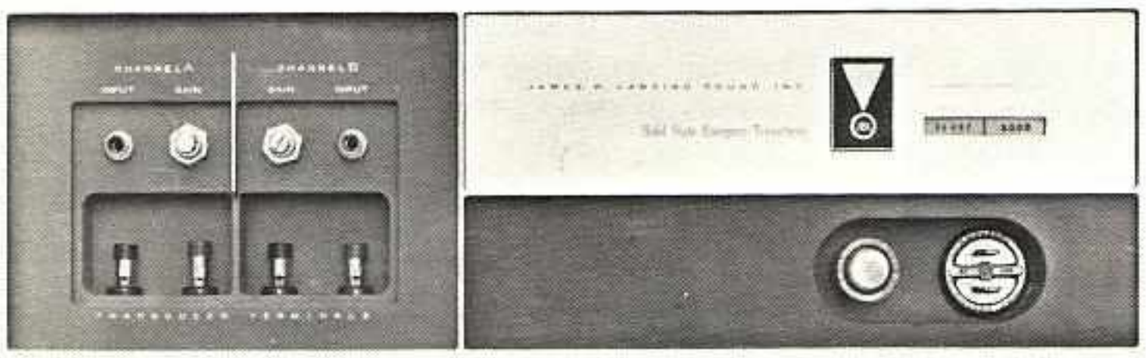




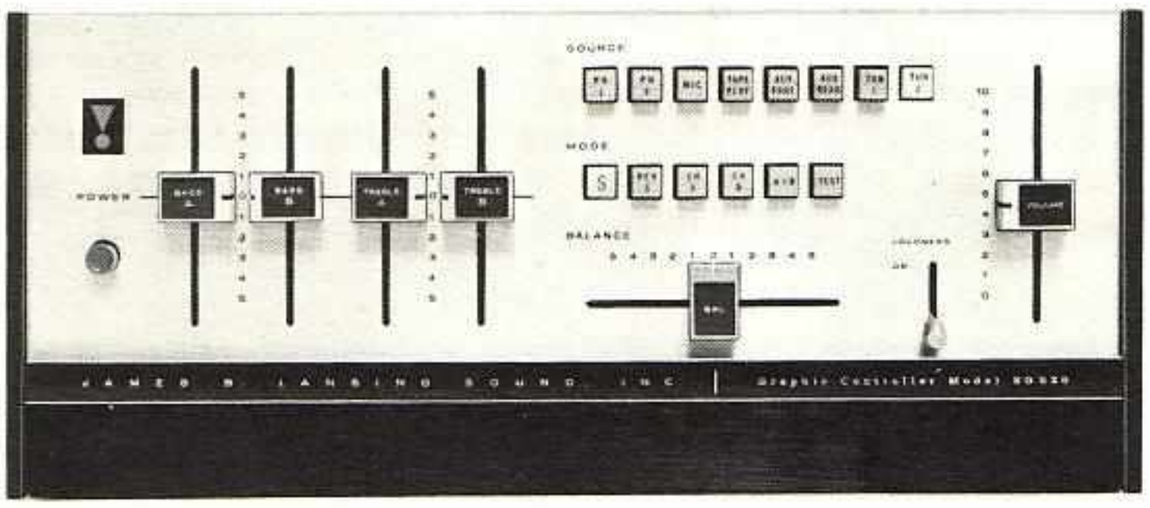
SA600E



SE400SE



SE408SE



SG520E

JBL SA600E 80 WATT SOLID STATE AMPLIFIER A superb power amplifier and advanced preamplifier in a single unit. New JBL T-Circuit (patent pending) uses all silicon transistors. Built-in Aural Null stereo balancing system. Brushed gold face panel with ebony trim and Oiled Walnut side panels. Special features include connecting jacks under chassis for neat freestanding installation, tape monitor switch, separate phono balance "trim" control, and 3-position phono sensitivity switch for best possible signal-to-noise ratio.

SA600E Specifications

Power output	80 watts, 40 watts per channel, continuous RMS power 10 Hz to 30,000 Hz, with both channels operating.
Distortion	**Harmonic distortion less than 0.2% from 20 to 20,000 Hz at 80 watts or any lower power level. Intermodulation distortion less than 0.2% at 80 watts or any lower power level.**
Frequency response	±¾ db 20 Hz to 20,000 Hz at full rated power, both channels operating.
Noise level	(including power amplifier). From high level inputs, 85 db below rated output. From low level inputs, 72 db below rated output; one microvolt referred to input.
Input sensitivity	High level inputs, ¼ volt. Low level inputs, 4 millivolts at 1000 Hz.
Output impedance	Rated impedance, 8 ohms. Nominal impedance, 4-16 ohms.
Dimensions	5 1/16" x 16 3/16" x 13¾" deep.
Shipping weight	25 lbs.

JBL SE400SE ENERGIZER The JBL SE400SE is an 80-watt stereo power amplifier using the exclusive JBL T-Circuit (patent pending). It is supplied with a special plug-in equalizer board which matches its performance characteristics to the requirements of the particular loudspeakers used: exact damping for best transient reproduction, final frequency response correction for smoothest response. With board set in the "flat" position, the SE400SE operates as a laboratory standard power amplifier. Silicon transistors are used throughout. The SE400SE is short circuit proof, open circuit proof, overload proof. It is protected by a two-year guarantee.

JBL SE408SE TRANSDUCER ENERGIZER Performance identical to SE400SE but designed for installation directly in one loudspeaker enclosure of a stereo pair.

SE400SE and SE408SE Specifications

Power output	80 watts, 40 watts per channel, continuous RMS power 10 Hz to 30,000 Hz, with both channels operating.
Distortion	Harmonic distortion less than 0.15% from 20 to 20,000 Hz at 80 watts or any lower power level. Intermodulation distortion less than 0.15% at 80 watts or any lower power level.
Frequency response	±¼ db 20 to 20,000 Hz. ±1.5 db 4 to 320,000 Hz.
Hum and noise	90 db below rated output.
Load Impedance	8 ohms rated impedance, 4 to 16 ohms nominal impedance.
Sensitivity	Input signal for rated output varies from 0.8 to 3.0 volts, depending upon plug-in equalizer board used.
Shipping weight	22 lbs.

JBL SG520E GRAPHIC CONTROLLER; PREAMPLIFIER A completely new kind of preamplifier/stereo control center. Designed and crafted by JBL. Performance is flawless: most uniform frequency response and lowest distortion of all preamps. Inaudible noise level—lowest of all preamplifiers. Professional linear controls permit instant visual recognition of exact settings. Illuminated computer-type pushbuttons control program source and manner of operation. Seldom-used controls and supplementary signal jacks are concealed behind hinged front panel for easy access. Built-in 1000 cps test tone for use with exclusive JBL stereo balancing system. Fully transistorized circuitry. Handsome case, model F25, available for freestanding placement.

SG520E Specifications

Output	3 volts.
Frequency response	Typically within ¼ db, 20 to 20,000 Hz.
Harmonic distortion	Less than 0.15% 20-20,000 Hz cps at rated output.
Intermodulation distortion	Less than 0.5% at rated output.
Hum and noise	1 microvolt or less referred to low level phono input. From high level inputs, 90 db below rated output.
Dimensions	Front panel—15½" x 6½" Chassis behind panel—14¼" x 11½" x 6 1/16". Clearance required in front of mounting panel, including knobs 1½"
Shipping weight	20 lbs.

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