



LX SERIES LOUDSPEAKER SYSTEMS.







If one word were to summarize JBL and its loudspeaker products, that word would be "quality". From the day Jim Lansing founded the company in 1946, JBL's tradition has been innovative acoustic design combined with original manufacturing techniques, and JBL has been responsible for many of the significant advances in loudspeaker engineering. Such capabilities and achievements have made JBL the number one choice of audio professionals, people who depend on their loudspeakers and demand both great performance and absolute reliability. That's why so many musicians choose JBL musical instrument loudspeakers, why you'll hear JBL loudspeakers at concerts, why you'll find JBL speakers in top recording studios.

## EFFICIENCY AND TODAY'S RECORDED MUSIC

Digital music sources in the home listening environment require loudspeakers capable of recreating true-to-life dynamic range. In combining high efficiency with exceptional power handling, JBL LX systems faithfully reproduce the dynamics present in digitally recorded music. For over 40 years, JBL Professional Series loudspeakers have been involved in the performance and recording of live music. That experience qualifies JBL as the obvious choice for home loudspeakers, that will maintain the live performance dynamics.

The latest expression of JBL tradition is the new LX Series. The LX Series loudspeaker systems represent an elegant solution for the serious listener seeking high performance, lasting quality, and contemporary styling. To accomplish this goal, JBL engineers utilized technology developed for the most critical professional applications to maximize performance. JBL designers then complemented this technology with a striking visual statement. The result is the LX Series, the newest and most advanced products from JBL.

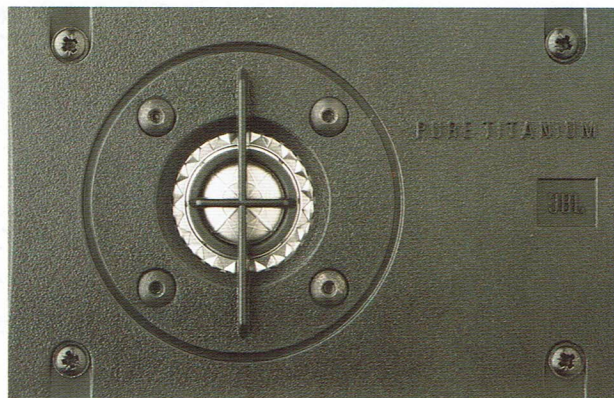
## TITANIUM TECHNOLOGY

A key engineering feature of the LX Series loudspeakers is the pure titanium dome high frequency driver. JBL developed titanium technology to satisfy the demands of audio professionals for producing and reproducing live music, and it is equally suitable for home music reproduction.

The basic notes for most music and voice occur in the middle and lower frequencies. And yet, it is the higher frequencies that provide the character that separates, let us say, a high C on a piano from a high C on an oboe. The fundamental character of musical instruments is often defined by these higher, sometimes unheard, frequencies. As a result, the reproduction of the music from a particular instrument is often determined by the high frequency element in a speaker system.

To reproduce these high frequencies accurately, the driver must be light enough in its mass to respond instantly to musical transients. Yet it must be strong enough to endure crushing force. For this purpose, JBL selected titanium.

Titanium has an extremely high strength-to-weight ratio. But until recently, it could not be fabricated thin enough, light enough, to produce a dome. JBL solved that by developing a unique process that swirls compressed nitrogen gas against a film of titanium only 25 microns thick - thinner than a human hair. The process forms the dome perfectly and without causing stress fractures.



Being that thin, however, made the dome subject to deformation. And so JBL solved that problem by creating a patented, intricate network of ribs modeled directly into the dome. This ribbing increases the structural rigidity without increasing the thickness. And so, a dome 25 microns thick can be as strong as one that is 250 microns thick.

The patented diamond design at the edge of the dome controls resonance and extends upper response limit to beyond 20 kHz.

The final dome is capable of responding faster, more precisely, and more often with no material fatigue. The sound is unstrained, clear, clean.





## LX 60

The LX60 offers the clear, detailed sound of a three-way system in a stunning floor standing enclosure. The tall, narrow enclosure design combines perfectly with the 5" (125 mm) midrange and 1" (25 mm) pure titanium dome for amazing resolution of music's inner detail. The 8" (200mm) low frequency driver is perfectly matched to the enclosure for clean, dynamic bass response.

## LX 44

A three-way design incorporating 8" (200 mm) low frequency, 5" (125 mm) midrange and 1" (25 mm) pure titanium dome, the LX44 offers additional clarity and definition in the critical 500Hz to 5kHz frequency range. The compact enclosure and optimal tuning provide solid, deep bass response. The three-way, high resolution dividing network combines the drivers for smooth, seamless response from the lowest frequencies to beyond audibility.

## LX 55

The LX55 is a three-way design based on a 10" (250 mm) low frequency driver mounted in a rigid, carefully tuned enclosure. A 5" (125 mm) midrange and 1" (25 mm) pure titanium dome complete the driver complement. The high resolution dividing network and acoustically correct enclosure design combine with the drivers to produce deep, powerful bass and smooth extended response to beyond 20kHz.





## LX 66

The LX66 is a unique design utilizing dual 8" (200 mm) low frequency drivers. This configuration allows an enclosure design that places the 5" (125 mm) midrange and 1" (25 mm) pure titanium dome near ear level while providing the bass response and sensitivity normally associated with larger systems. The result is an impressive floor-standing system capable of producing full, powerful bass along with accurate imaging and natural high frequency response.

## LX 33

The LX33 is a compact two-way system that equals the performance of many larger and more expensive systems. The advantage is a tall, attractively styled enclosure that provides optimal volume for low frequency tuning while positioning the 1" (25 mm) pure titanium dome near ear level for precise, stable stereo image. A 6½" (165 mm) low frequency driver and high resolution dividing network complete this superb sounding system.

## LX 22

The LX22 incorporates an 6½" (165 mm) low frequency driver combined with JBL's famous 1" (25 mm) pure titanium dome. Careful enclosure and dividing network design also contribute to the smooth, natural performance of the LX22. When space is limited, the LX22 will provide maximum performance.

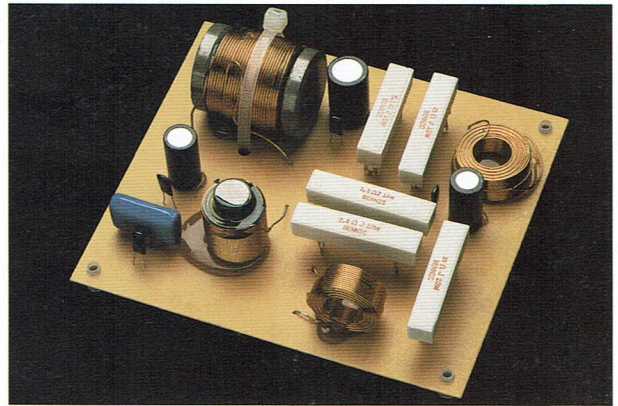


# MIDRANGE AND LOW FREQUENCY LOUDSPEAKERS

The midrange and low frequency loudspeakers found in the LX Series are specially designed to deliver tight, extended bass response. Frame, magnet, voice coil and cone were selected to produce a loudspeaker that has the range, sensitivity, power handling and transient response to handle today's recordings.

Large, powerful magnetic assemblies and tightly wound voice coils combine to generate the force required for powerful transient response.

Cones constructed of fiber and high polymer laminate have been used successfully for the past several years in other JBL low frequency drivers. The material has proven to have the optimal combination of internal damping and strength through the assigned frequency range. The mid and low range performance is smooth and free from breakup and distortion, even at high sound levels.



## HIGH RESOLUTION DIVIDING NETWORKS

The dividing network is responsible for directing the audio signal to the individual transducers in a speaker system. The dividing networks incorporated in the LX Series systems are based on the latest computer-assisted design methods and are built using the highest quality components. Low-loss inductors and audiophile grade capacitors are used to ensure minimum distortion and accurate transient response. Polypropylene by-pass capacitors are also used to prevent time delay distortion. The result approaches the theoretical ideal: Seamless transition from driver-to-driver without adding distortion of any kind.

## LX SERIES ENCLOSURES

Aside from providing the proper acoustic environment for extended bass response, a loudspeaker enclosure should also enhance the mid and high frequency drivers' performance. To this end, JBL has paid special attention to the effects of cabinet reflections in the design of the LX Series enclosures. The area surrounding the drivers is covered with an acoustically absorbent foam to prevent acoustic reflection. Enclosures edges are radiused to further reduce diffraction effects. The result is more open, spacious sound and improved stereo imaging.

Further, the loudspeaker enclosure should contribute no sound of its own. The JBL LX Series enclosures have been built of 19 mm high density compressed wood to ensure freedom from unwanted vibration and coloration. Internal bracing provides additional strength and damping for the large panels. The enclosure is lined with absorbent material to prevent internal reflections.

In addition to the finish shown, JBL LX Series are available in optional finishes. Contact your JBL dealer for samples of these.

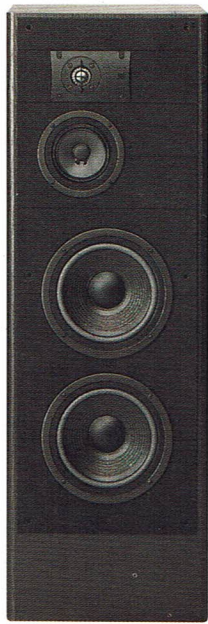
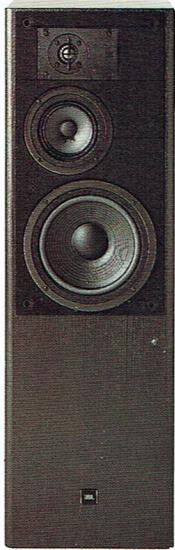


# TECHNICAL SPECIFICATIONS



	LX 22	LX 33	LX 44	LX 55
Recommended amplifier power range	10-125 W	10-135 W	10-150 W	10-200 W
Nominal impedance	8 ohms	8 ohms	8 ohms	8 ohms
Sensitivity	90 dB	90 dB	91 dB	92 dB
Frequency response	50Hz-20kHz	42Hz-20kHz	45Hz-20kHz	40Hz-20kHz
Crossover frequencies	3kHz	3kHz	800Hz/4kHz	800Hz/4kHz
Low frequency loudspeaker	6½ in/165 mm	6½ in/165 mm	8 in/200 mm	10 in/250 mm
Midrange loudspeaker	–	–	5 in/125 mm	5 in/125 mm
High frequency loudspeaker	1 in/25 mm Pure titanium dome	1 in/25 mm Pure titanium dome	1 in/25 mm Pure titanium dome	1 in/25 mm Pure titanium dome
Enclosure finish	Black ash high pressure laminate. See your JBL dealer for sample			
Grille color	Charcoal grey			
Dimensions				
Height	15¾ in/394 mm	31½ in/800 mm	23½ in/584 mm	26¼ in/660 mm
Width	10 in/254 mm	10 in/254 mm	11¾ in/298 mm	13¾ in/343 mm
Depth	8¾ in/219 mm	8½ in/220 mm	12 in/299 mm	12 in/299 mm
Net weight	6.5 kg	13 kg	13 kg	15 kg
Shipping weight	19 kg*	27 kg*	17 kg	20 kg

\* The LX22 and LX33 are packed two per carton.



LX 60	LX 66
10-160 W	10-250 W
8 ohms	4 ohms
91 dB	94 dB
38Hz-20kHz	45Hz-20kHz
750Hz/3kHz	650Hz/3.8kHz
8 in/200 mm	2x8 in/200 mm
5 in/125 mm	5 in/125 mm
1 in/25 mm Pure titanium dome	1 in/25 mm Pure titanium dome
s of optional finishes.	
37 in/940 mm 11¾ in/298 mm 11¼ in/295 mm	42¼ in/1066 mm 14¼ in/356 mm 15¾ in/399 mm
20 kg	28 kg
22.5 kg	35 kg



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