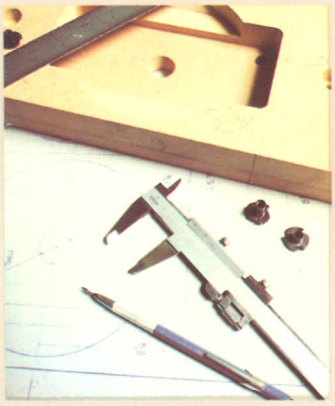
JBL

Lead your system to greatness.



JBL's high quality starts with the design.

If you're ready for your music to sound as good as you always wanted it to sound, you're ready for a pair of JBL Radiance Series speakers. JBL loudspeakers are known for their great sound, their thorough engineering, their fine craftsmanship. These qualities make JBL speakers the choice of professionals around the world, and these same qualities make the JBL Radiance Series the best choice for you, and for your music.

We designed Radiance speakers to complement the quality of today's popular audio components, particularly the factory-matched rack-mounted systems. These offer outstanding electronic performance, but the speakers are the most critical part of the system—you don't actually listen to the turntable or the receiver or the tape deck. Radiance speakers will let you hear how good the components really are; Radiance will give you all the sound you paid for. You'll hear the difference immediately: The music will sound so clean, so open, that you'll not be aware of a system at all—only great sound.

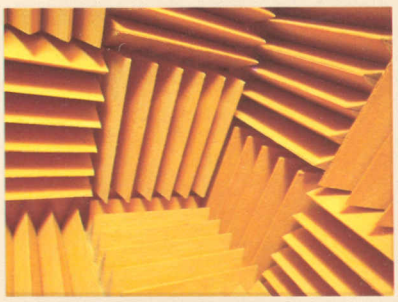
At JBL, we specialize in manufacturing loudspeakers, and we have over 35 years of experience in the field. We're uniquely involved with music and the recording process: JBL musical instrument loudspeakers help produce the music, JBL studio monitors are essential in recording it, JBL concert systems deliver it to huge audiences, and JBL Radiance Series home systems bring this same sound to the living room.

Each Radiance Series model represents our balanced design approach to better sound—the optimum combination of bandwidth, transient response, low distortion, and power handling that adds up to superior reproduction of recorded music. We engineer each individual component to fit into the system as a whole, to assure you of both good sound and good value.

The low frequency loudspeaker of each Radiance model has been carefully matched to the enclosure volume and the ducted port to provide the best possible bass. The high frequency driver is the same model we've used in some of our most successful studio monitors; it offers extended response, wide dispersion, and accurate reproduction of the subtle high harmonics that give music its character. Newly designed dividing networks control each driver over its whole operating range to provide a seamless, coherent sound. The vertical line array of the drivers creates a very accurate and lifelike stereo image.

Radiance speakers are designed to look as good as they sound—in any room. The clean, graceful lines reflect today's contemporary styling. The furniture-grade, walnut-grained vinyl enclosure finish resists stains and spills, and the construction and finish quality exhibit our traditional attention to detail.

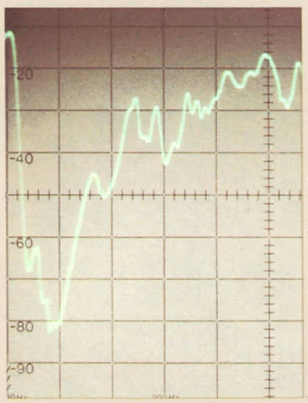
Radiance Series speakers from JBL are the best way to lead your stereo system to greatness.



We test our designs in an anechoic chamber.

The JBL Radiance Series

JBL–the quality name in loudspeakers



Each transducer must meet an established performance standard.

Ask anybody in the sound business and they'll tell you—JBL means quality. Audio professionals know high quality, demand high quality—and JBL gives them high quality.

It starts in our fully equipped engineering laboratory, where our large and versatile engineering staff explores every facet of audio design. Aided by sophisticated analytical techniques such as laser interferometry and computer modeling, our engineers continually create and refine in their search for ultimate performance.

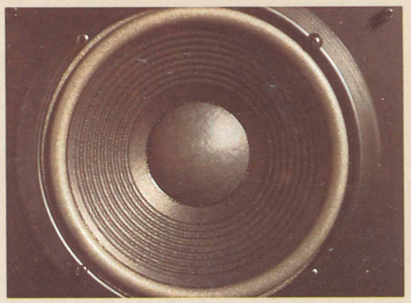
We consider laboratory tests only a part of the design process. People, not computers, will listen to the finished loudspeakers, so we make sure we listen to them throughout their development. Our loudspeakers will sound just as good in a home as they test in the lab.

To ensure that every speaker matches the quality and sound of our engineering design, we put just as much into the manufacturing. We build our speakers from the ground up in our own California factory, and we control every step of their manufacture. Incoming materials are carefully inspected, subassemblies are inspected and tested, and we give every finished product both a sound test and a thorough visual inspection before it is packed.

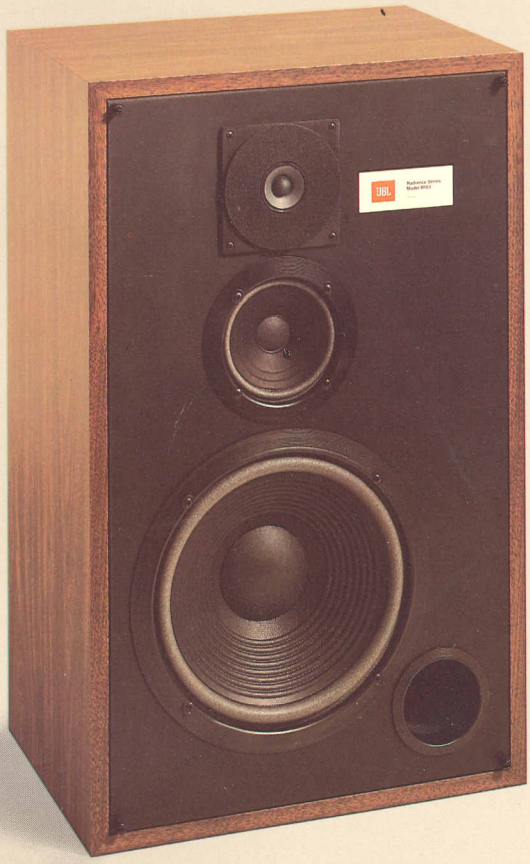
Making loudspeakers that perform as well as ours requires extra effort at every stage. We hold our manufacturing tolerances to standards so tight that most other manufacturers consider them impossible.

Good design doesn't stop with the acoustic considerations. JBL loudspeaker systems are handsome as well, visually and structurally equal to the finest furniture made anywhere. We use high quality compressed wood for our enclosure panels; this dense material is acoustically superior to solid wood. We hold our cabinetmaking tolerances to machine standards, typically less than half a millimeter. Whether finished in walnut-grain vinyl or American black walnut veneer, each JBL enclosure is finished flawlessly.

The enthusiastic acceptance of JBL speakers by audio professionals around the world attests to the validity of our approach. Building loudspeakers for the home requires different but equally demanding design parameters, and our home systems also enjoy an outstanding international reputation. In fact, in Japan, the most quality-conscious listeners in the world have made JBL the number one imported loudspeaker there. Through the years, JBL speakers have become classics of acoustic and visual design.


Bass performance is clean and powerful.

At JBL, we still think quality is important. That's why we make JBL loudspeakers the way we do.



R82

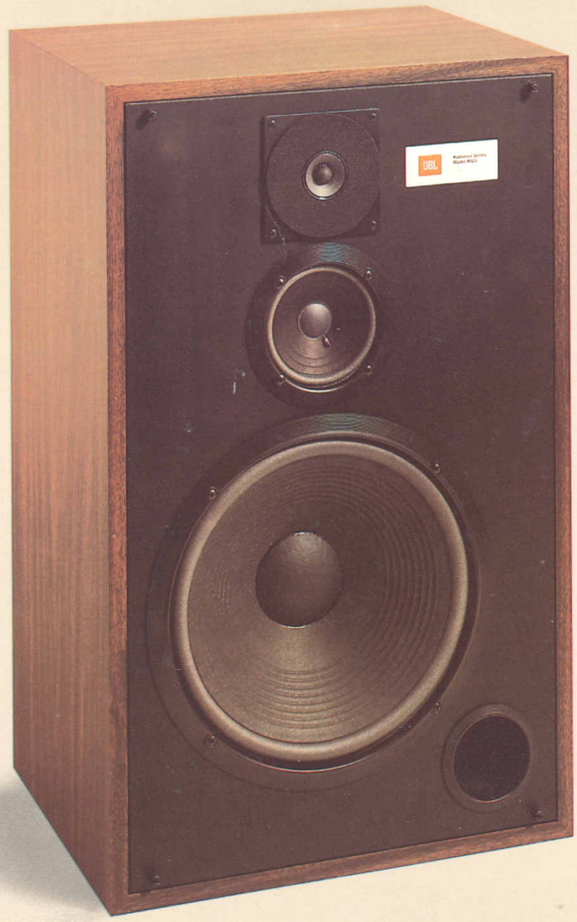
An ideal system wherever space is tight, the two-way R82 offers fine performance with clear bass response. The enclosure is larger than usually found in 2-way, 8-inch systems to help the bass performance. A three-position level switch on the back of the enclosure lets you adjust the high frequency output to suit your taste or your room acoustics.

- 8-inch (200 mm) low frequency loudspeaker
- 1-inch (36 mm) high frequency loudspeaker
- Three-position high frequency level control

R103

This three-way system offers more bass and slightly higher efficiency than the R82. The midrange driver is housed in an acoustically isolated subchamber to prevent interference from the low frequency loudspeaker. A three-position level switch on the rear panel adjusts the high frequency output.

- 10-inch (250 mm) low frequency loudspeaker
- 5-inch (130 mm) midrange loudspeaker
- 1.4-inch (36 mm) high frequency loudspeaker
- Three-position high frequency level control



R123

The three-way R123 provides the best bass response of the Radiance bookshelf models, thanks to its larger low frequency loudspeaker and greater enclosure volume. Efficiency is also high. The midrange unit is housed in its own acoustically isolated subchamber, and there's a three-position high frequency level switch on the rear panel.

- 12-inch (300 mm) low frequency loudspeaker
- 5-inch (130 mm) midrange loudspeaker
- 1.4-inch (36 mm) high frequency loudspeaker
- Three-position high frequency level control

R133

This three-way model is the top of the Radiance line. The combination of the powerful low frequency driver and passive radiator produces deep, clean bass, and the floor-standing design puts the midrange and high frequency drivers at the ear level of a seated listener. The R133 also features continuously variable front-panel level controls to adjust midrange and high frequency output.

- 10-inch (250 mm) low frequency loudspeaker
- 10-inch passive radiator
- 5-inch (130 mm) midrange loudspeaker
- 1.4-inch (36 mm) high frequency loudspeaker
- Front-panel midrange and high frequency level controls

4312

The latest version of the long-time standard for bookshelf-sized studio monitor loudspeakers, the JBL 4312 incorporates the latest JBL engineering advances while retaining the sound that made its predecessors so popular. Studio engineers like the exceptional clarity and musical detail; these same qualities make the 4312 ideal for any serious listener.

- 12-inch (300 mm) low frequency loudspeaker
- [illegible]nch (130 mm) midrange loudspeaker
- 1.4-inch (36 mm) high frequency loudspeaker
- Front-panel midrange and high frequency level controls
- Genuine American black walnut veneer finish

Professional heritage

Top studios use JBL monitors when cutting masters.

Recording studios place exacting demands on their monitor loudspeaker systems. They have to—the studio monitor loudspeaker is the only link between the musicians and the control room. The engineer depends on the monitors to tell him exactly what the musicians are playing, so the monitors have to be accurate. Monitor loudspeakers must also be rugged and reliable, because the speakers are in around-the-clock use at high volume levels. Any "down time" means revenue permanently lost to the studio.

The top studios choose JBL studio monitors. Surveys show that the majority of the top-selling albums were recorded, mixed, or mastered on JBL monitor loudspeakers. JBL monitors are renowned for their sound, their reliability, and their overall high quality.

One model, the JBL 4311, became the standard for bookshelf-sized monitors. Now JBL has made the latest version of this model, the 4312, the standard for the JBL Radiance Series. The JBL Radiance Series shares the same high frequency driver as the 4312, and JBL designed the Radiance Series to produce the same overall sound. What the monitors do for the studio, JBL Radiance Series speakers will do for your living room.

Monitors and cutting lathe photographed at Studio 5 (Mastering Studio), Kendun Recorders, Burbank, California.

Specifications	R82	R103	R123	R133	4312
Low Frequency Loudspeaker	200 mm (8 in) diameter	250 mm (10 in) diameter	300 mm (12 in) diameter	250 mm (10 in) diameter	300 mm (12 in) diameter
Passive Radiator	–	–	–	250 mm (10 in) diameter	–
Midrange Loudspeaker	–	75 mm (3 in) diameter	75 mm (3 in) diameter	75 mm (3 in) diameter	75 mm (3 in) diameter
High Frequency Loudspeaker	36 mm (1.4 in) diameter	36 mm (1.4 in) diameter	36 mm (1.4 in) diameter	36 mm (1.4 in) diameter	36 mm (1.4 in) diameter
Crossover Frequencies	2000 Hz	600 Hz, 3000 Hz	600 Hz, 3000 Hz	600 Hz, 3000 Hz	1500 Hz, 6000 Hz
Nominal Impedance[1]	6 ohms	6 ohms	6 ohms	6 ohms	8 ohms
Recommended Amplifier Power Range[2]	10-60 watts continuous sine wave per channel	10-100 watts continuous sine wave per channel	10-125 watts continuous sine wave per channel	10-150 watts continuous sine wave per channel	10-200 watts continuous sine wave per channel
Sensitivity (SPL at 1 meter with a 1-watt input)	89 dB (Level Control at "Normal")	90 dB (Level Control at "Normal")	90 dB (Level Control at "Normal")	91 dB (Level Controls at "6")	91 dB (Level Controls at "5")
Dimensions	546 mm x 343 mm x 284 mm deep 21½ in x 13½ in x 11 3/16 in deep	648 mm x 404 mm x 284 mm deep 25½ in x 15⅞ in x 11 3/16 in deep	699 mm x 434 mm x 326 mm deep 27½ in x 17⅛ in x 12⅞ in deep	959 mm x 413 mm x 324 mm deep 37¾ in x 16¼ in x 12¾ in deep	597 mm x 362 mm x 298 mm deep 23½ in x 14¼ in x 11¾ in deep
Shipping Weight	14 kg (31 lb)	18.2 kg (40 lb)	21 kg (46 lb)	26.2 kg (57½ lb)	23.6 kg (52 lb)

1. Radiance Series products may be used with all amplifiers or receivers which specify 4-ohm or 8-ohm loudspeakers.
2. The recommended maximum power amplifier rating will ensure proper system "head room" to allow for occasional program peaks. JBL does *not* recommend sustained system operation at these maximum power levels.

JBL continually engages in research related to product improvement. New materials, production methods, and design refinements are introduced into existing products without notice as a routine expression of this philosophy. For this reason, any current JBL product may differ in some respect from its published description but will always equal or exceed the original design specifications unless otherwise stated.

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