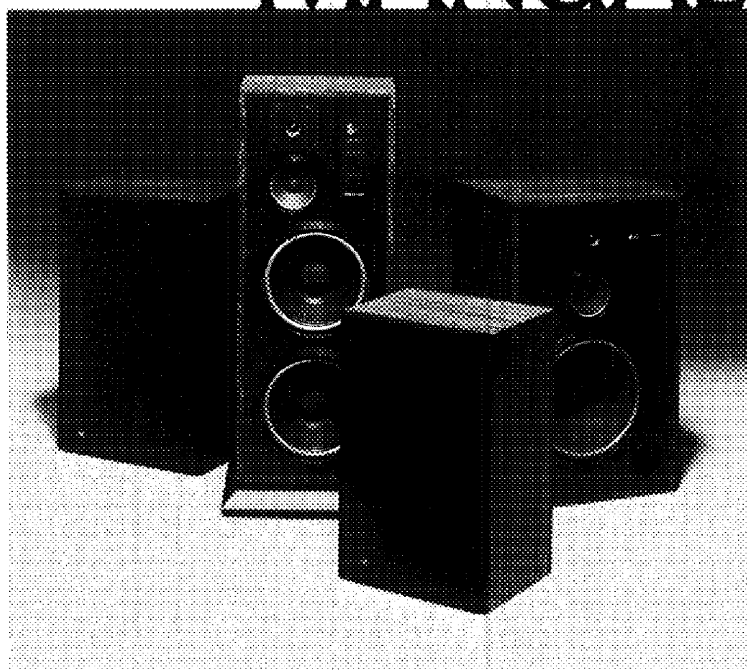


# RADIANCE INSTRUCTION MANUAL

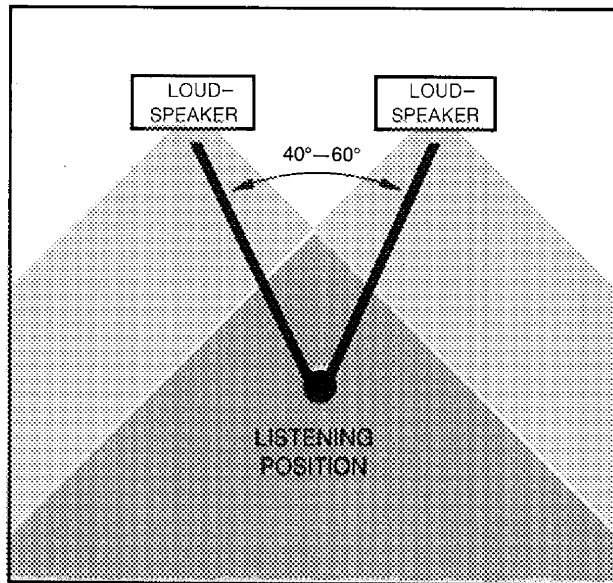


Thank you for purchasing a JBL product. Your new Radiance Series loudspeakers will provide many years of excellent performance. The brief instructions in this manual explain proper placement and connections to help you get maximum enjoyment from your Radiance loudspeaker system.

PLACEMENT

For the best stereo reproduction, the two loudspeaker systems should be equally distant from your listening position and separated so that the angle between them, at the listening position, is  $40^{\circ}$  to  $60^{\circ}$  (see illustration).

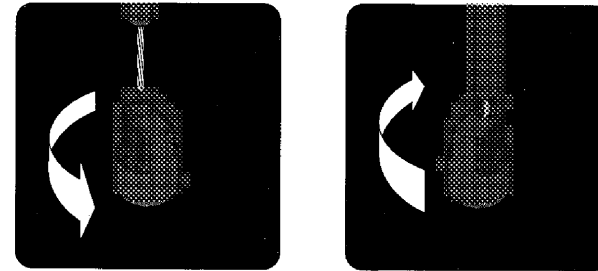
Placing the loudspeakers in a corner or against a wall will result in the strongest (but not necessarily the most accurate) bass. The bookshelf models (R82, R103, R123) may also benefit from placement on stands or shelves. Every room is different; don't hesitate to experiment with placement in yours.



To connect the loudspeaker systems to the receiver or amplifier, we recommend ordinary lamp cord, sold in hardware stores as 1 mm or #18 AWG insulated wire.

The terminals on the back of the loudspeaker enclosure permit quick and sure connections. Strip approximately 20 mm ( $\frac{3}{4}$  in) of the insulation from the end of the wire and twist the strands together. Turn the terminal fully counterclockwise, insert the wire, then turn the terminal clockwise until the wire is secured. Rotate the terminal by hand and do not force it (see illustration).

For each channel, the red terminal on the loudspeaker should be connected to the red or (+) loudspeaker connection terminal on the receiver, and the black terminal on the loudspeaker should be connected to the black or (-) terminal on the receiver. Connecting the loudspeakers in this manner ensures that they will be in phase: that is, work together rather than in opposition. Connecting the loudspeakers out of phase will not damage them, but will result in less bass and poor imaging. Lamp cord usually has a ridge on one of its insulating jackets so that you can easily identify which wire is connected to which terminal.



The three-position switch on the rear panel above the connection terminals varies the high frequency output to suit your room or listening preferences. The "normal" position provides the most accurate response in the average room. The "increase" position should produce a more natural sound in an acoustically absorptive room (carpets, drapes, overstuffed furniture), while the "decrease" position will be better for a reflective room (bare floors and walls). Using familiar recordings, adjust the controls for the best sound to your ears.

HIGH FREQUENCY  
LEVEL CONTROLS  
(MODELS R82, R103, R123)

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MIDRANGE AND  
HIGH FREQUENCY  
LEVEL CONTROLS  
(MODEL R133)

Separate level controls on the front panel (behind the removable grille) let you adjust the midrange and high frequency outputs. Using familiar recordings, adjust the controls for the best sound to your ears. Rotate the controls clockwise to increase output, counterclockwise to decrease it. The numbers around the controls are for reference only.

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GENERAL CARE

The walnut-grained vinyl finish of the enclosure resists most stains; simply wipe them off with a damp cloth or sponge. The baffle panel (behind the grille) should likewise be cleaned only with a damp cloth. The grille may be gently vacuumed, and stains can be removed with K2r or a similar aerosol cleaner, following the manufacturer's instructions. Do not use any solvents on the grille, enclosure surface, or baffle.

The grille is held in place by dowel pins near the edges. To remove it, grasp it by both top or both bottom edges and pull gently. To replace the grille, reposition it on the dowel pins and press gently at the corners. Do not push on the center area of the grille.

Should your loudspeaker system ever need service, return it to the JBL dealer from whom it was purchased. If for some reason this is impractical, write directly to the JBL Customer Service Department, describing the problem as fully as possible. Products returned to the factory must be sent prepaid to the JBL Customer Service Department, 8500 Balboa Boulevard, Northridge, California 91329, U.S.A.

SPECIFICATIONS	R82	R103	R123	R133
Low Frequency Loudspeaker	200 mm (8 in) diameter	250 mm (10 in) diameter	300 mm (12 in) diameter	250 mm (10 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
High Frequency Loudspeaker	36 mm (1½ in) diameter	36 mm (1½ in) diameter	36 mm (1½ in) diameter	36 mm (1½ in) diameter
Crossover Frequencies	2000 Hz	600 Hz, 3000 Hz	600 Hz, 3000 Hz	600 Hz, 3000 Hz
Nominal Impedance <sup>1</sup>	6 ohms	6 ohms	6 ohms	6 ohms
Recommended Amplifier Power Range <sup>2</sup>	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
Sensitivity (SPL at 1 metre 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")
Dimensions	546 mm x 343 mm x 284 mm deep 21½ in x 13½ in x 11¾ in deep	648 mm x 404 mm x 284 mm deep 25½ in x 15¾ in x 11¾ in deep	699 mm x 434 mm x 326 mm deep 27½ in x 17¼ in x 12¾ in deep	959 mm x 413 mm x 324 mm deep 37¾ in x 16¼ in x 12¾ in deep
Shipping Weight	14 kg (31 lb)	18.2 kg (40 lb)	21 kg (46 lb)	26.2 kg (57½ 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.