



JBL LANCER 44

PRECISION CRAFTSMANSHIP

Your JBL system is a true precision loudspeaker whose luxurious sound and pleasing appearance suit it ideally to a wide variety of high fidelity installations. The acoustical enclosure and the loudspeaker components installed have been designed, crafted, and tested as an integrated unit. You will immediately note the feeling of "presence" which is characteristic of all JBL loudspeakers.

Your JBL loudspeaker system has been crafted with the painstaking care accorded to fine musical instruments. And like a fine musical instrument, it will not deteriorate with age. By following the few simple recommendations in this booklet, you will be assured of sound which will remain clean and fresh year after year.

IMPORTANT

JBL loudspeaker systems are fully guaranteed against defects in material and workmanship. Be sure to fill out and mail the warranty card immediately.

Your JBL system responds with verbatim accuracy to the electrical signal supplied by the amplifier. It will reproduce extraneous noises, such as hum, rumble or hiss, just as accurately as the desired program material. Such noises do not originate in the loudspeaker and generally indicate that one of the other components of the system, or the program source itself, is at fault.

CONNECTING TO THE AMPLIFIER

Connections to the speaker system are made to the two push-type terminals on the back of the cabinet. These are spring-loaded. When the cap is depressed, a hole appears in the side of the terminal. Insert the bare end of the connecting wire and release. The black terminal post connects to the amplifier "common" or "gnd" terminal. Red connects to the amplifier 8-ohm terminal.

If your amplifier does not have an 8-ohm tap, or if for any reason you should want to try a different connection, you may connect to the 4-ohm or 16-ohm output without danger to either the amplifier or the loudspeaker system. The specified impedance rating of your JBL system is a nominal figure which merely suggests the connection which should achieve the most efficient power transfer between the amplifier and the loudspeaker.

WIRE SIZE

Eighteen-gauge insulated wire is the minimum size for speaker-amplifier connections of up to 50 feet or so. Ordinary commercial lampcord is adequate for almost any connection likely to be used in a home installation. If you use plastic-covered lampcord, you can keep track of the wires by noting that one of the plastic jackets is ridged while the other is smooth. By calling the ridged wire "red" and the other "black" you can make connections in the same way you would using color-coded wire.

AMPLIFIER POWER

JBL loudspeaker systems are not critical as to amplifier characteristics and excellent performance can be expected from any high quality unit. To enjoy the full dynamic range of which your JBL system is capable, we suggest that the power amplifier have a rating of 30 watts continuous RMS power or more (15 watts or more per stereo channel). Some audiophiles feel that a great reserve of amplifier power is desirable for effortless reproduction of intense transient peaks that sometimes occur in music. JBL loudspeakers can handle transients whose peak power is equivalent to ten times the continuous power rating of the loudspeaker system. For this reason, the most powerful component high fidelity amplifiers available may be used, if desired, with little danger of damaging your loudspeaker system so long as reasonable caution is observed.

WALL MOUNTING

Two mounting brackets are packed with the loudspeaker system; these can be attached to the back of the enclosure with #10 sheet metal screws supplied. Drill $\frac{1}{8}$ " diameter pilot holes approximately $\frac{3}{8}$ " deep before screwing the brackets to the panel. Your hardware dealer can recommend bolts or fasteners to be attached to the wall itself.

THE COMPONENTS IN YOUR SYSTEM

The Lancer 44 contains the remarkable LE8T full-range transducer and the PR8 passive radiator. The LE8T is as different from an ordinary 8-inch loudspeaker as a precision chronometer is from an ordinary alarm clock. It features a six-pound magnetic assembly (larger than that found on most 15" speakers), specially damped long-throw cone assembly, two-inch edgewound aluminum ribbon voice coil, and an exclusive pure silver impedance-controlling ring that multiplies efficiency by a factor of four in the 15,000 cps region. The passive radiator is an exclusive JBL development that effectively doubles the system's low frequency radiating area for richer, more robust bass performance, greater dynamic range, and smoother response well up into the mid-range.

