

# JBL L75 minuet owner's manual

The JBL Minuet employs the remarkable JBL LE8T to reproduce the full range of musical tones with lifelike precision. The cone area of the LE8T is effectively doubled in the low frequency range by a pneumatically driven passive radiator for firm, powerful bass and a warm, spacious quality well up into the mid-range. The combination of the LE8T and the PR8 passive radiator achieves dramatic tonal span and dynamic range from this small, versatile loudspeaker system. The JBL Minuet is capable of pure undistorted sound even at very high loudness levels . . . every note is a verbatim copy of the original performance.



#### **IMPORTANT**

The JBL L75 Minuet is fully guaranteed against defects in material and workmanship. Be sure to fill out and mail the warranty card immediately. Your JBL Minuet is a true precision loudspeaker system which responds accurately 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 . . . they generally indicate that one of the other components of the system, or the program source itself, is at fault.

#### **PLACEMENT**

Your Minuet enclosures are small enough to mount on a decorator bench, in bookshelves, or on wall brackets. You will find that the placement of the loudspeakers in your listening room has a definite effect upon reproduced sound. The accepted rule of placement for stereo speakers is that a person sitting in the usual listening area should see an angle of about 40 degrees between the two sound sources. Therefore, the distance between the speakers depends upon their relationship to the listening area. The loudspeakers may be located at any height above the floor, but somewhere near ear level usually gives the most realistic suggestion of a live performance. There should be no overstuffed furniture or other large obstructions between the loudspeakers and the listening area.

#### **REMOVING LOUDSPEAKER COMPONENTS**

The JBL Minuet is factory-assembled and tested as a complete loudspeaker system. You should not attempt to remove the grille or take out individual loudspeaker components unless there is definite reason to believe that the system is not performing properly. When removing the LE8T or the PR8, observe the following procedure:

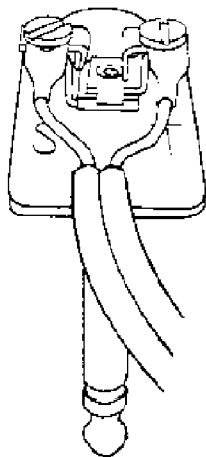
- 1) Take off the grille assembly. This is held in place by a special pressure-sensitive woven material and should be gently but firmly lifted out from the enclosure. Avoid twisting or bending motions. The grille is actually hand-assembled wood latticework and can be broken if you are not careful.
- 2) Both the LE8T and the PR8 are held in place by four Phillips-head machine screws. After removing the screws, the units can be lifted out. Connections to the LE8T are made with the same pushbutton binding posts used on the back panel of the Minuet enclosure.

## OPERATION

For best possible sound coverage, it may be desirable to tilt the enclosure so that the sound is projected slightly upwards, directly into the listening area. Unscrew the ball handle just enough so that the enclosure can be tilted up and down . . . do not unscrew the handle all the way. Note that the tilting mechanism is deliberately made to operate fairly stiffly. Use both hands to adjust the enclosure to the desired angle. To lock the enclosure in place, screw in the ball handle just enough so that the assembly is rigid. If you try to screw in the handle as tightly as possible, you may damage the locking mechanism.

## WIRING

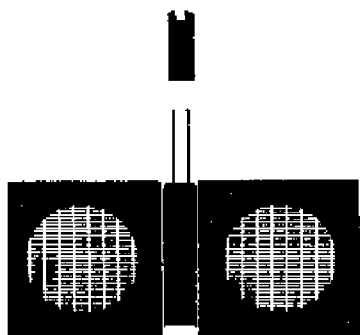
Because the system is portable, connections are made through a phone jack located on the bottom panel. A matching phone plug is provided which can be attached to the wires leading from your amplifier. If you need additional plugs for other locations, these can be obtained from your JBL dealer. Your dealer can also suggest the best kind of wire to use for your particular installation. Ordinary commercial lampcord is usually satisfactory for loudspeaker connections in a home installation.



To connect the phone plug, remove the three screws which hold on the black plastic cover. You will see two screw terminals labeled "S" and "T". If you are using two patio loudspeakers for stereo, it is important that connections to both speakers be made the same way — the wire from the amplifier black (or COM) terminal should connect to "S", and the wire from the amplifier red (or 8-ohm) terminal should connect to "T". If your amplifier does not have an 8-ohm tap, you may connect the speaker to a 4-ohm or 16-ohm output without danger to either the amplifier or the loudspeaker system.

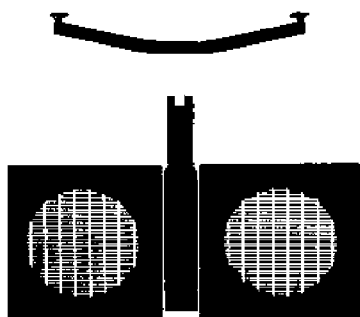
For indoor use, an amplifier rated at 20 watts or more (10 watts per stereo channel) is recommended. For outdoor use, where greater power is required, a unit rated at 30 or 40 watts will give better results. Because JBL loudspeakers can safely handle momentary transients of very high intensity, there is little chance of overdriving the loudspeaker system, even if connected to the most powerful component high fidelity amplifiers.

## ASSEMBLING THE UNIT FOR FREESTANDING USE



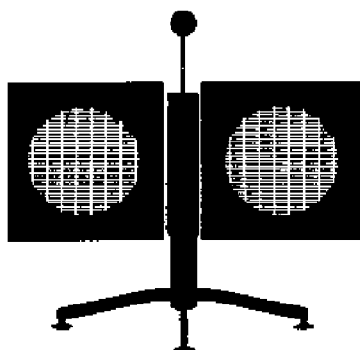
1

**ATTACH RODS AND TUBE** Lay the enclosure on a padded surface so that the serial number plate is on top. Screw the shorter threaded ends of the two rods into the holes in the round plate. Don't tighten completely...several turns are enough. Then place the metal tube over the rods with the notched end on top.



2

**ATTACH LEGS** The two legs interlock to form an "X", then fit into the notches of the metal tube. Put the round metal cap over the legs and fasten the complete assembly together with the two hexagonal nuts. Before tightening the nuts with a wrench or pliers, adjust the legs so that they are square with the cabinet.



3

**ATTACH TOP SHAFT AND KNOB** Turn the unit over so that it stands on its legs. You will notice a small hole drilled crosswise through the stubby rod which projects up through the center of the enclosure. (It may be necessary to turn the shaft slightly so that the hole is accessible.) Put a pin or nail through the hole to keep the stubby shaft from turning while you screw in the top shaft and knob. Make sure that the two sections are screwed very tightly together, then remove the pin.

Now, when you rotate the knob, both sections of the shaft will turn. Don't overtighten the knob... don't unscrew it all the way. The knob serves to lock and unlock the enclosure so that it can be tilted, as explained under "OPERATION".

## TO HANG THE UNIT FROM EAVES OR CEILING

1

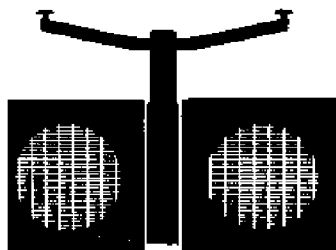
**ASSEMBLE THE SYSTEM** Follow the instructions on the preceding page, **except:**

- Use only one leg instead of two. Attach this so that it runs sideways, parallel with the enclosure.
- Omit the front-to-back leg.
- Do not attach the top shaft and knob.



2

**FASTEN HOOKS IN PLACE** Screw the two hooks into the ceiling exactly 12 inches apart on a line perpendicular to the desired direction of sound. Make sure to allow enough clearance from walls so that the system can be tilted to the desired angle once it is hung.



3

**HANG THE SYSTEM FROM THE HOOKS** First, loosen the stubby rod which projects through the top of the enclosure. Don't unscrew it all the way . . . just enough so that the enclosure can be tilted (the round center part slides on the bottom block). Hang the assembly upside-down from the hooks and tilt it to the desired angle. Then tighten the stubby rod with pliers until it is snug, but do not overtighten.

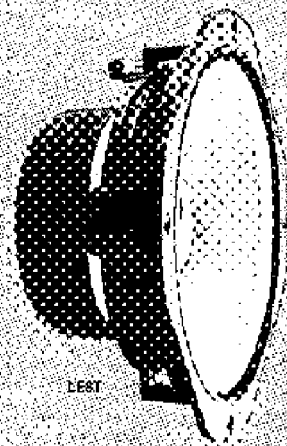


## COMPONENTS

The L57 Carnival and the L59 Festival are identical except for the loudspeakers installed. The two halves of the cabinet are joined internally to make a single enclosure which houses an eight-inch full-range loudspeaker and an 8-inch passive radiator. As you face the system, the full-range speaker is to the left and the passive radiator is to the right.

**L57 CARNIVAL** The Carnival houses the JBL D280 loudspeaker. This unit has a specially treated water resistant cone driven by a two-inch voice coil made of aluminum ribbon wound on edge. Such a large edgewound coil is much more difficult to fabricate than the small wire coils found on other loudspeakers, but it takes advantage of all the magnetomotive energy supplied by the  $3\frac{1}{2}$  pound magnetic structure. Efficiency is heightened, dynamic range increased, and the speaker is able to handle momentary overloads without damage. High frequencies are reproduced by an aluminum center-dome (only two-thousandths of an inch thick) hydro-pneumatically drawn to shape so that no part of it is thinner, heavier, or more compliant than any other part. As a result, the dome adds no coloration to reproduced sound. . . . high frequency performance is clear and natural.

**L59 FESTIVAL** The 8-inch LE8T installed in the Festival is a unique loudspeaker superior to any other 8-inch unit ever built. Its magnetic assembly alone weighs more than 6 pounds — heavier than that used in most 15-inch loudspeakers. Like the D280, the LE8T uses a two-inch edgewound aluminum ribbon voice coil, but the magnetic field in which the coil operates is even more intense. Also, the voice coil gap is more than three times the length of the coil itself to allow peak cone travel in excess of one-half inch without appreciable distortion. An exclusive pure silver impedance-controlling ring counteracts the inductive characteristic of the voice coil so that uniform power is drawn from the amplifier through the full high frequency range. The impedance-controlling ring helps extend the high frequency range of the LE8T well beyond the upper limit of human hearing.



The LE8T cone is coated with Lans-a-plas damping material. This is responsible for the rich, smooth mid-range and also makes the cone assembly water resistant. The edge of the cone is terminated in a molded ring of another exclusive JBL material: Lans-a-loy. The Lans-a-loy suspension allows the cone to move long distances without distortion and also provides the correct acoustic termination for vibrations traveling through the cone material.

The sophisticated design and meticulous hand-craftsmanship of the LE8T guarantee rich, natural performance even at the relatively high power levels required out of doors. You hear accurate bass, bright mid-range, and highs that are vivid and pure.

**PASSIVE RADIATOR** The passive radiator used in the Carnival and Festival is an original JBL contribution to the art of sound reproduction. In this application, the passive radiator solves two major problems inherent in the design of a high-quality loudspeaker system intended to be used outdoors. First, the passive radiator takes the place of ports or tunnels. The enclosure is completely closed so that its interior is protected from moisture. Secondly, the passive radiator greatly increases bass efficiency. When a loudspeaker is used outdoors, it is much more difficult to achieve solid, balanced bass performance than in a listening room. The passive radiator achieves the required bass efficiency in an enclosure small enough and light enough to be easily portable.

The passive radiator is an acoustic coupling device which utilizes energy inside the enclosure which otherwise would be wasted and converts it into useful sound. It is similar in appearance to a loudspeaker cone assembly, but its mass and suspension have been carefully adjusted to the requirements of the L57/L59 enclosure. In operation, it effectively doubles the radiating area of the LE8T or D280 through the low frequency range, giving solid, well defined bass plus a smoother, more spacious sound well up into the mid-range.

