

# MONOLITH I & II

## Warning!

### **The Monoliths are not designed to be bi-wired.**

The internal crossover network of the Monolith is a 6dB per octave, phase coherent network and as such, it can not be bi-wired properly!

If you attempt to bi-wire the speaker with the "HI" and "LOW" inputs you will be by-passing the internal crossover. This could do serious damage to the electrostatic panel interface device, as it is not designed for such operation.

*The Monolith loudspeakers have been designed for two methods of operation:*

- 1 Full range with two channels of amplification and a single pair of cables.
- 2 Bi-amplification with an external electronic crossover, four channels of amplification and two pairs of speaker cables.

c l s e l e c t r o s t a t i c



**MARTIN LOGAN**

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# MARTIN·LOGAN

the electrostatic loudspeaker technology co.

**CONGRATULATIONS, YOU HAVE INVESTED IN ONE OF THE WORLD'S PREMIER LOUDSPEAKERS.** The Martin-Logan **Monolith** represents the culmination of an intensive, dedicated 3½-year group research program directed toward establishing a leading-edge technology reference monitor durability, craftsmanship, and sophisticated design. Honored at the CES Design and Engineering exhibition, the **Monolith** is the reference monitor chosen by some of the most demanding electronics manufacturers, recording studios, and FM stations, as well the most discerning critical listeners.

All materials in your **Monolith** are of the highest quality to provide years of enduring enjoyment and deepening respect. Rather than veneers, where particle board frames would do, solid woods are used for beauty and durability. All trim pieces are constructed from selected solid stock and are hand-finished. The solid wood side trim is attached to the subwoofer cabinet with "hidden" fasteners that structurally tie the electrostatic module to the cabinet, allowing fast and easy service.

For deep bass, a high power, multiple-laminate coil polypropylene-cone subwoofer is incorporated which has individual power handling capacity of over 200 watts. Inside, the high level transition network incorporates only the highest grade components and an inductor of unprecedented scale (20-lbs of high purity copper). Through rigorous testing, the curvilinear electrostatic panel has proved to be one of the most durable and reliable components available today. Fabricated from specifically-tooled, high-grade carbon steel, the panel is then coated with high dielectric Delrin based polymer. Applied via a proprietary electrostatic deposition process, it houses a membrane .0005 of an inch thick. Ruggedly constructed and insulated, as much as 300 watts of continuous power has driven the **Monolith's** energized diaphragm (as well as our own ears' diaphragms) into massive excursions with no deleterious effects.

Thank you, again, for purchasing the **Monolith**. Now, connect your system, sit back, relax, and enjoy this most exacting transducer. It is designed and constructed to give you years of trouble-free listening enjoyment.

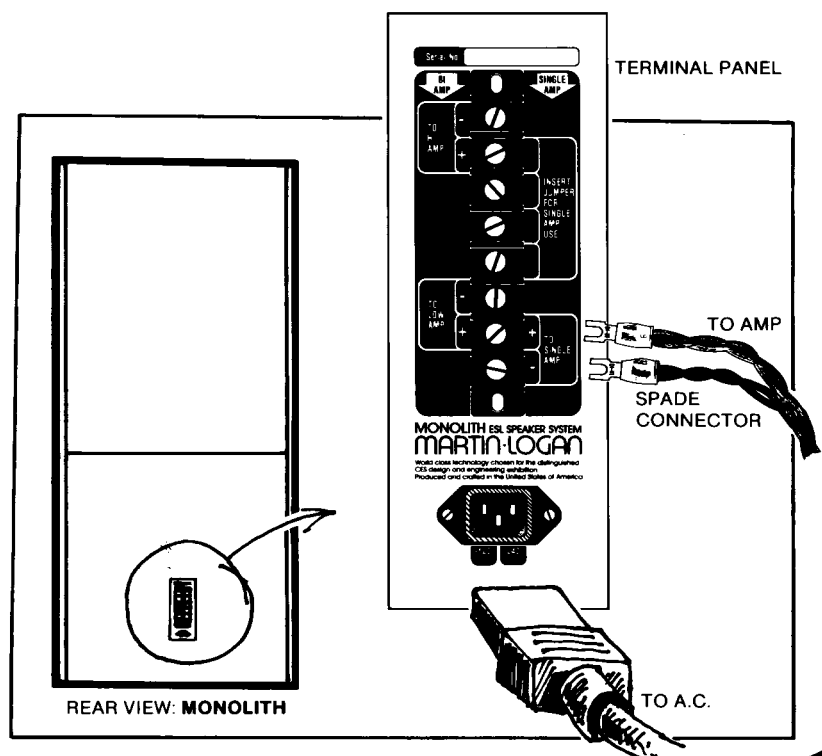
## INSTALLATION IN BRIEF

We know you are eager to hook up your new **Monolith** Controlled Line Source Monitors, so this guide is provided to allow a fast and easy set up. Once you're up and running, take the time to read in depth the rest of the information in your technical brochure. It will give you perspective on how to obtain the best possible performance from this most exacting transducer.

**SINGLE AMPLIFIER USE:** - Attach connectors (preferably spade connectors) to the two bottom terminals of your **Monolith** terminal panel.

**BI-AMPLIFICATION:** - Use the most accurate electronic crossover possible. Crossover at 75 to 125 Hz, 6 DB/Octave or faster slope. Remove all strapping connectors from terminal block. Attach woofer amplifier to bottom terminals. Attach High-Frequency Amplifier to upper terminals as indicated on your terminal panel.

**AUGMENTED BASS:** - All rooms have different bass interaction characteristics. The **Monolith** is designed for optimal results in normal conditions. If additional bass is desired, the specifically designed Martin Logan Subwoofer incorporates two voice coils. By connecting the second coil set to the 1st terminal set, an additional 3 DB of energy can be obtained below 100 Hz. See your dealer for more detailed information.



## 1) SPEAKER CONNECTION

Use the best speaker cables you can! #16 is the minimum gauge to use, and higher quality cables, available from your specialty dealer, will give you superior performance.

### Speaker Phasing:

Be consistent when connecting speaker leads to the terminals on the back of the **Monolith**: take great care to assign the same color to + terminal on both the left and right channels.

If bass is nonexistent and you cannot discern a tight, coherent image, reverse the + and - leads on one side to bring the system into phase.

Spade connectors are suggested for optimum contact and ease of installation.

### AC Power Hookup:

Your **Monolith** requires an AC outlet to energize the curvilinear electrostatic cell. A removable AC power cord is provided.

Firmly insert the power cord into the AC power connector in the speaker back and then connect it to your wall AC power source. The front indicator will then illuminate, indicating energizing is occurring. If no wall AC power source is close by, an extension cord can be used, as the power requirements are extremely small and not critical to your ESL's accuracy.

## 2) SPEAKER PLACEMENT

### Positioning:

Place the **Monolith** 12" to 24" from the back wall and "point" it directly at the center of the listening area, thus creating controlled dispersion to a group of listeners and maintaining minimum interaction with the room side walls. This optimizes tightly focused imaging.

To obtain optimum imaging, make sure the speakers are EXACTLY the same distance from the back wall and that their "toe in" is EXACTLY the same. If an extremely wide image is desired, you can face the **Monolith** straight into the room. Due to the total coherent phase alignment of the **Monolith**, you can place the speakers widely apart and still maintain a tight image associated with the closer spacing of traditional speaker formats.

### Precautions:

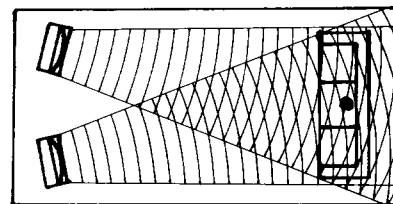
**High Volume Listening:** The Martin-Logan **Monolith** is both efficient and has extremely low distortion. Incredibly high volume levels can easily be obtained. However, avoid amplifier clipping or amplifier distortion. This occurs when, in your quest for higher volume, you push the amplifier beyond its capabilities. Buzzing, fuzziness, or popping are indications of this distortion. No damage will occur if you IMMEDIATELY turn down the volume. Prolonged operation at distorted volume levels may eventually cause damage to your system and is **not covered under warranty**.

Be sure to lower your volume control each time you raise or lower the tone arm from a record, tune a station on your tuner, or while operating your tape deck in the fast wind mode.

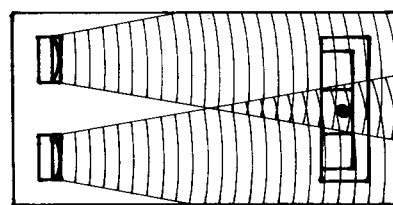
Observing these precautions will assure you of continued high-performance listening pleasure.

### Care:

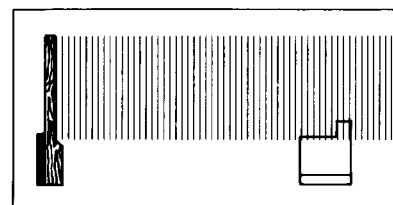
The Martin-Logan **Monolith** is a carefully designed and precisely engineered work of art and a little care will insure that your **Monolith** will continue to look as good as it sounds. The side panels have been highly finished and occasional waxing can ensure their high finish. Take care to remove the grill cloth first. Grill cloths can be vacuumed occasionally. (Never use abrasive cleansers on the **Monolith**.)



TOP VIEW DISPERSION



TOP VIEW DISPERSION



SIDE VIEW DISPERSION

— Best Wishes & Happy Listening —

  
President