

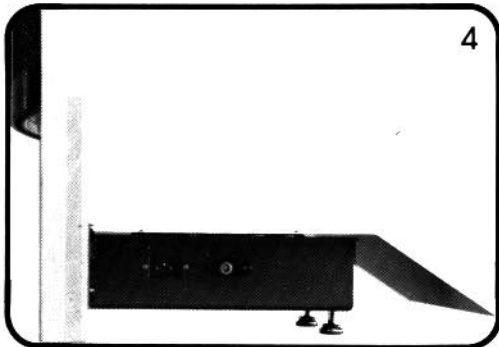
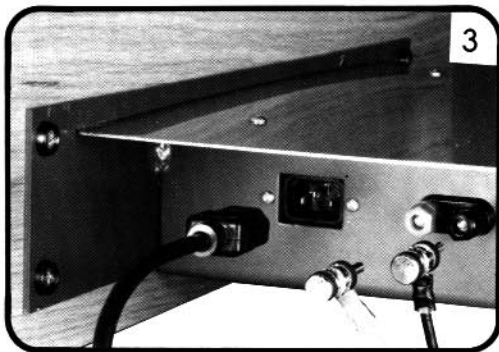
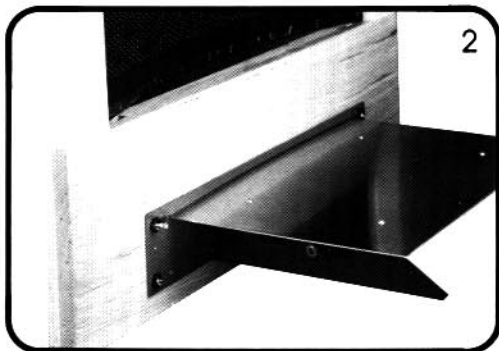
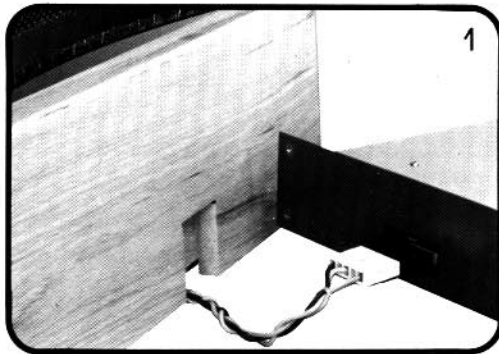
MARTIN·LOGAN, LTD.

the electrostatic loudspeaker technology co.

619 e. 8th street — p.o. box 741

lawrence, kansas 66044

congratulations and thank you. You have just invested in a Loudspeaker representing the highest technology, design, and craftsmanship today. The New CLS (Curvilinear Line Source™) Electrostatic loudspeaker is the ultimate in high accuracy listening and incorporates only the finest materials to provide you years of continued enjoyment. To get the best performance from your new CLS take the time to familiarize yourself with its unique character and requirements, then sit back, relax and enjoy this most exacting transducer.



— initial assembly —

connection: After unboxing your new transducers and electronics modules, carefully lean one transducer against a wall or solid object. Before connecting, insert the adjustable feet into the bottom of the electronics module. Insert the high-voltage connector through the port of the electronics module. Take care to align the connector so that the indicator symbol faces upward. This allows correct phasing. Check to make sure that the connector is snugly attached to the PC board inside. (Refer to figure 1)

attaching the electronics module: Move the electronics module close to the transducer and tuck the extra cable into the port and connect the module to the wooden transducer frame. Screws and dress washers are provided for convenient attachment. As well, pre-drilled holes allow correct alignment and easy attachment. (Refer to figure 2)

hook-up: 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. (Refer to figure 3)

speaker phasing: Be consistent when connecting speaker leads to the terminals underneath the CLS: 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 or banana connectors are suggested for optimum contact and ease of installation. (Refer to figure 3)

ac power hookup: Your CLS 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 and then connect it to your wall AC power source. 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. (Refer to figure 3)

feet adjustment: Underneath the electronics module are two adjustable feet. The height of the vertical wave-front can be controlled by adjusting these feet. If you desire to have optimal listening while standing, tilt the speaker back more. If you desire optimal listening while sitting, tilt your speaker forward so the wave launch is directed straight ahead. Caution, you can tip the speaker over by pushing too hard from the back. Use some care when adjusting and when using it. (Refer to figure 4)

— precautions —

The Martin-Logan CLS is capable of handling upwards of 150 watts/channel, however it is truly a full-range electrostatic loudspeaker using only one diaphragm for all frequencies.

In a normal room the bass response is quite extended. However as one approaches rock volume levels, the excursions of the diaphragm can contact the front and back stators resulting in a slight slapping sound. This will not harm your system, however it is an indication to turn your volume down.

If extremely high volume level listening is required, you can obtain the detail and articulation of the CLS with high SPL capability by integrating a high quality subwoofer for information below 100 HZ.

If buzzing or popping occurs as a result of high volume listening, turn your volume down! Prolonged operation when operating your amplifier or speaker beyond their range can eventually cause damage to your system and is not covered under warranty.

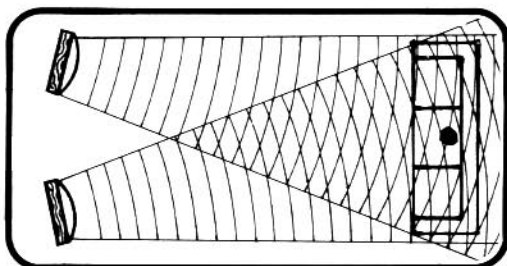
Be sure to lower your volume control each time you raise or lower the tone arm from a record, tune a station on your tuner, or while operating your tape deck in the fast wind mode.

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

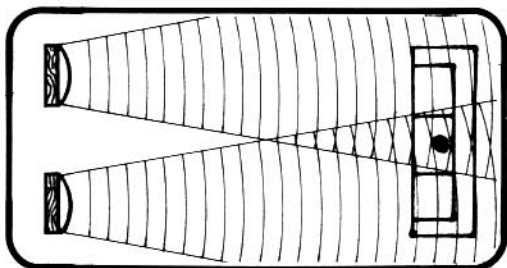
As with any electronic device, within the CLS electronics system exists high voltage and therefore, do not remove the top plate as there are no user serviceable parts within.

— care —

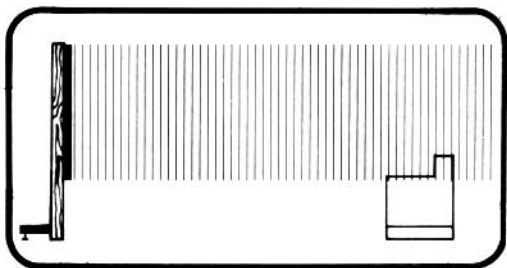
The Martin-Logan CLS is a carefully designed and precisely engineered work of art and a little care will insure that your system will continue to look as good as it sounds. The side panels have been highly finished and occasional waxing can ensure their high finish. (Never use abrasive cleansers on the CLS. Never pour liquids on the stat-panel itself. Dusting with a dry cloth is all the maintenance needed.)



TOP VIEW DISPERSION



TOP VIEW DISPERSION



SIDE VIEW DISPERSION

— your CLS and your room —

positioning: As a general rule, bipolar radiators (speakers that radiate forwards and backwards) require some room to develop good bass response, so it is wise to start your speaker placement about 2' to 3' from the back wall. You can then experiment with placement to get the best desired results.

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 CLS straight into the room. Due to the total coherent phase alignment of the CLS, you can place the speakers widely apart and still maintain a tight image associated with the closer spacing of traditional speaker formats.

— Best Wishes & Happy Listening —

Paul Sanders
President