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Phased Linear INTERNATIONAL, INC.

20121 - 48th Avenue West, LYNNWOOD, WASHINGTON 98036 U.S.A. Telephone: (206) 774-3571
All warranty service must be performed at a warranty service station located in the country where the unit was purchased or at the Phase Linear factory in Lynnwood, Washington U.S.A.

If you have any questions concerning the warranty, please write to:
Service Manager, Phase Linear Corporation
20121—48th Ave. West, Lynnwood, Washington 98036

**WARNING:** TO PREVENT FIRE OR SHOCK HAZARD DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.
I INTRODUCTION

You have purchased what we believe to be the finest speaker system available at any price. We thank you for selecting the Andromeda III Speaker System and we know you will be given many years of outstanding music reproduction.

Please read the Owner's Manual thoroughly in order to attain the maximum benefit from your new system.

II INSTALLATION OF ANDROMEDA III'S

A. UNPACKING THE ANDROMEDA III'S

The speaker system is shipped in two cartons with the following components in each box.

1. Large bass module box
   a. Bass module

b. Four metal legs and accompanying hardware
c. Two decorative wooden trim strips
d. Andromeda III motion control module, referred to as the MCM

2. Panel box
   a. Two panels

B. ASSEMBLY INSTRUCTIONS

The Andromeda III System is shipped with the metal legs for the panels removed to prevent shipping damage. The legs and the appropriate hardware are shipped in the bass module carton.

To attach the legs to the panels, please follow these instructions:

1. Remove the panels from the shipping carton and carefully place them on their sides on a smooth surface which will not damage the walnut finish.
2. Remove the grille frames, taking care not to damage the fabric (a steady pull at the top corner will dislodge the frames).
3. Position the legs as shown in Figure #1 and tighten the screws. NOTE: The legs are set with a slight angle for better dispersion.
4. A decorative wooden trim strip is provided (shipped in the bass module). It is designed to be placed over the metal legs for decoration. Take care to align the wooden trim strip so that it covers both metal legs and sets tightly against the speaker panel.
C. HOOKUP OF THE MCM AND SPEAKERS

Method I: SEPARATE POWER AMPLIFIER AND PRE-AMPLIFIER COMBINATION (Preferred Method).

This method should be used with all separate preamplifiers and amplifiers. The MCM is installed between the preamplifier and the amplifier.

Step #1: Attach speaker hookup wire of at least 22 gauge (lamp cord or “zip” cord works well) as shown in Figure #2. Allow wire enough to go from the power amplifier to the bass module, then to the speaker panels.

Step #2: The main outputs of the preamp are connected to inputs R & L (right and left) of the MCM. Outputs R & L of the box connect to the inputs of the power amp. This completes the hookup of the speaker system and the MCM. Figure #2 illustrates this method.

Method II: INTEGRATED AMPLIFIER OR RECEIVER

Use this hookup when using an integrated amplifier or receiver in which input/output connections are available which separate the preamplifier section and power amplifier section. Wire speakers as in Method I and hookup the MCM as shown in Figure #3.

Method III: HOOKUP USING A TAPE MONITOR PATH

The speakers should be wired as in Method I. This method is not recommended for separates and should not be used with the Phase Linear 4000 in particular. The MCM should be installed in the tape monitor path and the speakers are wired as in Figure #4. The tape monitor switch on the receiver or integrated amplifier should be positioned in the monitor position so the MCM is in the signal path.

III PHASING OF THE SPEAKERS

Correct phasing must be made when connecting the amplifier to the speakers. If the polarities of the speakers and the amplifier are not matched correctly, sound cancellations will occur at some frequencies. Proper phasing can be assured by making sure the common leads of the amplifier run to the common leads of the speakers. The positive leads to the speakers must correspondingly run to the positive leads of the amplifier. See Figure #2.

IV PLACEMENT

Proper placement is dictated by the individual room and experimentation. In general, the panels should be placed from one to six feet away from a wall. The distance from the wall largely determines the spatial qualities of the sonic image. When the speakers are close to the wall they will tend to generate an intimate stereo image, while the more distant spacing will result in a spacious stereo image. A modest amount of experimenting will help to quickly determine your personal preference. The bass module may be placed between the two panels, off to one side, or against a wall. Since the low frequency components of bass notes are non-directional, the bass module may be placed anywhere that results in good blending and balance with the panels. In general, a corner position results in more bass, while a free
standing room position yields less bass. The low frequency environmental balance control on the MCM allows trimming adjustments to obtain correct balance for a corner location, a wall location, or a free standing location. If very low bass seems to be lacking, or if it seems to be overly strong, try a different location and a different low trim setting. Again, a bit of experimenting will generally yield large dividends and is well worth the effort.

V FUSING

Three sets of fuses are used in the Andromeda III system. Four amp AGC fuses are used in the bass module and 2.5 amp AGC fuses are used in each speaker panel. The module fuses are located on the connection block on the bottom of the module. The panel fuses are located on the network boards under the grille frames on the back side of each panel. Do not over fuse as damage may result and the warranty will be voided.

VI USE OF MOTION CONTROL MODULE (MCM BOX)

The three trim controls provided by the Andromeda III MCM give additional flexibility to “fine tune” the speaker system to the particular installation and to suit the listener’s taste.

The low trim switch affects, primarily, the bottom octave and can adjust low bass energy to the desired level. If the bass module is located in the corner of the listening room, the - (minus) position will probably be desired. The 0 setting or + (plus) setting is approximately 3dB steps and can be used to adjust for desired bass energy.

The mid and high switches can exercise small balance changes to accommodate for room absorption, cartridge characteristics and program material. The center position is the normal setting for the mid and high switches. The + (plus) and - (minus) positions provide approximately 3dB of range. Careful listening and experimentation will yield the best overall settings.

The spatial imaging control adds, to any degree desired, a carefully balanced ambience signal to the panels. This information is derived electronically from the stereo program material and allows the listener to add the aura of space to the stereo image. The amount of spatial information present is variable from record to record, but typically a setting can be found that gives the right effect for most material.
SYSTEM INSTALLATION

- Decorative Foot
- Metal Legs
- Rubber Feet (8 pieces)
- Flat Head Screw (8 pieces)
- Phillips Head Screw (8 pieces)
- Hex Nut (8 pieces)
- Metal Leg
### VII SPECIFICATIONS

**A. Driver Compliment**
1. 2 - 12" woofers
2. 4 - 8" midbass
3. 4 - 4" midrange
4. 10 - 2" cone tweeters

**B. Nominal Impedance:** 6 ohms

**C. Power Handling**
1. Continuous sine wave 100 watts RMS below 200 Hz
2. Minimum power requirement: 50 watts RMS/channel
3. Maximum for musical program: 350 watts RMS/channel

**D. Dimensions**
1. Commode: 22" W 18½" H 22" D
2. Panels: 24" W 63" H 5" D

**E. Motion Control Module**
1. Input impedance: 22k ohms
2. Output impedance: Less than 600 ohms
3. Maximum output voltage: 8 volts RMS
4. Noise: Less than 100 micro volts
5. Distortion: Less than 0.1%