



**Atma-Sphere Music Systems, Inc.**

1742 Selby Av.  
St. Paul, MN 55104  
651- 690- 2246/FAX 699- 1175  
atma- sphere.com

## **MA-1 Silver Edition (Mk.II.3) amplifier setup and operation instructions**

**Installation:** Place the amps in your system. Connect the preamp cable to the appropriate input connector on the front of the amp. If you must use the RCA input connector, make sure a shorting jumper is installed between pins 1 & 3 on the XLR connector else a buzz may result. Verify that both power switches are OFF and connect AC power to the AC input connector on the rear of the amp. Connect the negative speaker cable to the negative output terminal and the positive speaker cable to the positive output terminal.

**Setup:** Install the tubes in their sockets. The front group of five sockets (no cooling holes) take the 6SN7GT driver tube. All others are the 6AS7G output tubes. A total compliment of five driver and fourteen output tubes are required per each chassis. Engage the main power switch (edge of chassis) and verify that the amber indicator lights. In about 15 seconds, the filaments of all tubes should be visibly glowing orange. If you are setting up the amp for the first time, rotate the BIAS control (beside the input connectors) fully counterclockwise. Wait at least one minute, then engage the standby switch (by the red light) and verify that the red indicator lights. The amplifier is now fully powered up.

**Bias adjustment:** Initially, rotate the Bias control (next to the input connector) fully counterclockwise. Depress both the Test/Operate switch (edge of chassis opposite the power switches) and the Bias Test switch (next to the Test/Operate switch) and the meter will rise to indicate the bias reading. Use the Bias control (next to the input connectors) to set the meter as follows: Cold amp = .650A / Hot amp (one hour warmup) = .750A. Release the Bias Test switch as soon as you have made your adjustment. You can expect the bias to increase notably as it warms up, thus the difference in settings between cold and hot. Check bias on a new amp daily until it has stabilized (typically after 10-20 hours of use). When bias has stabilized it can be expected to stay in adjustment for extended periods.

**DC Offset adjustment:** Depress the Test/Operate switch (at the edge of the chassis, opposite the status indicators). Examine the meter reading. If NOT zero (above OR below) adjust the DC offset control (closest to the bias test switch) to bring the meter to a zero reading. The bias and DC offset controls interact somewhat, so the bias and DC Offset procedures must be repeated.

**A/AB Switch:** Located by the Standby switch, you may operate this switch at any time. Up is class A and down is AB. Bias and DC Offset should always be set in the up position. The AB position allows for less heat and more power, but does not sound as smooth. It is useful for noncritical listening.

**Operation:** The amplifier is now completely operational. The amplifier can be left in either standby or operational mode indefinitely. We recommend using the Standby feature if you are not listening to the amp.

**Fuses:** The first fuse by the power cord entry is the Output section B+ and is 5 Amp Slow (2.5A slow for 235V). The middle fuse is the filament fuse and is 5 Amp Slow (2.5A for 235). The last fuse controls the driver circuit and is .5 Amp slow (.25A Slow for 235 Volt). **WARNING!** To avoid fire hazard, always replace fuses with same type and rating.



## Atma-Sphere Music Systems, Inc.

1742 Selby Av.  
St. Paul, MN 55104  
651- 690- 2246/FAX 699- 1175  
atma- sphere.com

### LIMITED WARRANTY ON ATMA-SPHERE MUSIC SYSTEMS PRODUCTS

This warranty on your ATMA-SPHERE MUSIC SYSTEMS product, which is distributed and warranted by ATMA-SPHERE MUSIC SYSTEMS, shall remain in effect for two (2) years from the date of consumer purchase, provided the enclosed registration form is completed and returned to ATMASPHERE MUSIC SYSTEMS within ten days of purchase.

#### WHAT IS COVERED:

Except as specified below, this warranty covers all defects in materials and workmanship. The following are NOT covered by the two year limited warranty:

Output tubes are covered for one (1) year, all other tubes are covered for 90 days, with the following exclusions, as per the rest of the warranty:  
Damage occurring during shipment (present claims to carrier).  
Damage resulting from failure or inability to follow proper instructions.  
Damage resulting from the performance of repairs or modifications by other than ATMA-SPHERE MUSIC SYSTEMS.

#### WHAT WE WILL PAY FOR:

ATMA-SPHERE MUSIC SYSTEMS will pay for all labor and material expenses for repairs covered by this warranty.

#### HOW TO OBTAIN WARRANTY SERVICE:

If your unit requires repairs covered by this warranty, you MUST obtain a return authorization number from ATMA-SPHERE MUSIC SYSTEMS. You are responsible for transporting the unit to ATMA-SPHERE MUSIC SYSTEMS, 1742 Selby Av., St. Paul, Minn. 55104. You must pay the initial shipping charges, but ATMA-SPHERE MUSIC SYSTEMS will pay the return charges, if the repairs are covered by the warranty. All products MUST be shipped in the original carton(s) or in replacement cartons supplied by ATMA-SPHERE MUSIC SYSTEMS. Contact ATMA-SPHERE MUSIC SYSTEMS for replacement cartons and cost.

LIABILITY IS LIMITED TO THE REPAIR OR REPLACEMENT, AT OUR OPTION, OF ANY DEFECTIVE PRODUCT AND SHALL IN NO EVENT INCLUDE INCIDENTAL OR CONSEQUENTIAL DAMAGE OF ANY KIND.

This warranty is not transferable. Implied warranties of merchantability and fitness for a particular purpose are limited in duration to the length of this warranty. This warranty sets forth all expressed warranties made with regard to the above-referenced product. We neither assume nor authorize any other liability in connection with the sale or any shipment of products. This warranty gives you specific legal rights and you may also have other rights which vary from state to state. We reserve the right to make changes and improvements in our products without incurring any obligation to similarly alter products previously purchased.

WARRANTY REGISTRATION FORM

IMPORTANT: This form must be filled out and returned to ATMA-SPHERE MUSIC SYSTEMS within 10 days of purchase to validate the warranty! Please type or print clearly.

NAME \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ zipcode \_\_\_\_\_

Country \_\_\_\_\_

Name of dealership \_\_\_\_\_

Model \_\_\_\_\_ Date of purchase \_\_\_\_\_ serial # \_\_\_\_\_ price paid \_\_\_\_\_

Optional:

Comments concerning your dealer \_\_\_\_\_

\_\_\_\_\_

Comments concerning this product \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

components in your system \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

suggestions \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

MAIL TO: ATMA-SPHERE MUSIC SYSTEMS, 11742 Selby Av., St. Paul, MN 55104 USA