

## PRELIMINARY M7-HPA OWNERS MANUAL

PLEASE READ THIS MANUAL BEFORE PLUGGING IT INTO THE WALL.

-If the amplifier came in from the cold (less than 50 degrees Fahrenheit) let the entire assembly come to room temperature to minimize condensation.

-Do not have the amplifier powered up without the cover on.

-Do not operate amplifier without the dedicated speaker cable provided and the speaker attached.

-Do not operate if moisture is on the cover.

### UNPACKING THE M7-HPA

-You have obviously removed the crate cover to find this manual.

-Remove and open the M7-HPA Tool Kit.

-Remove the top inner cover.

-Remove all of the screws in the crate top cover and store them in the Tool Kit box.

-Place the crate cover next to the final location of the amplifier next to the speaker.

-Remove the M7-HPA from the shipping crate using the handle on the rear and recessed handle in the front panel (use caution and a helper as the M7-HPA weighs 114 pounds) and set it on the crate cover because the M7-HPA has 3 sharp stainless steel cones protruding from its bottom to protect the floor (not necessary if the floor is carpeted).

-Carefully lift the rear of the amp vertical until resting on its face (reposition the amp on the cover if necessary so that the entire front face rests on the crate cover).

-Remove the tape and pull the plastic bag down the cooling fins of the amp.

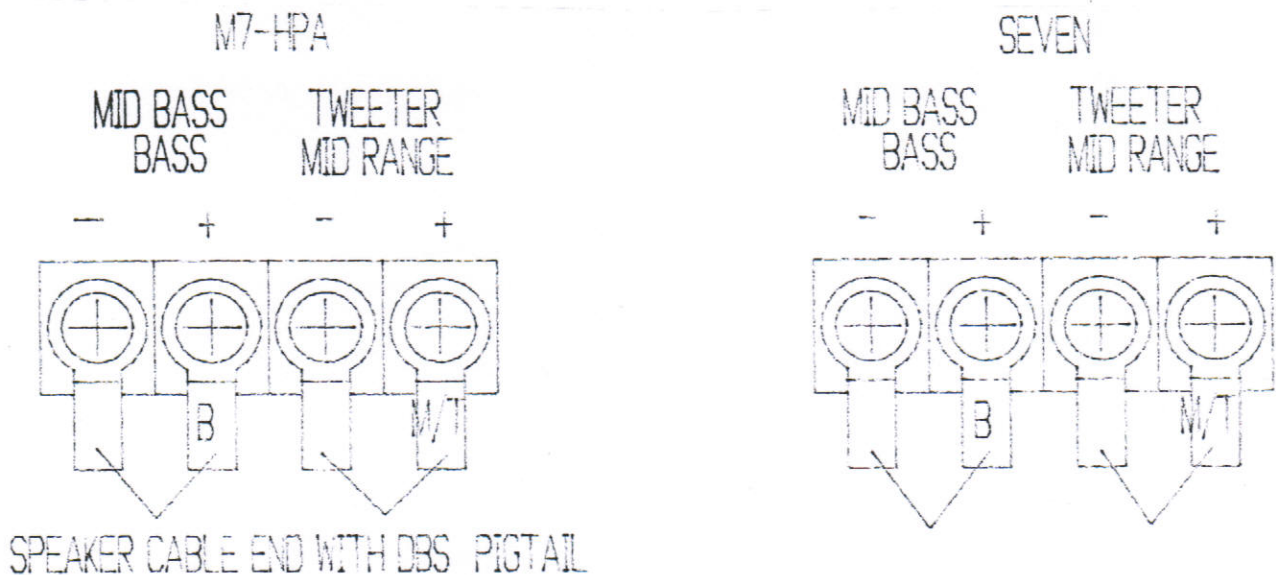
-Set the amplifier back on its cones and lift the amp vertical by its front recessed handle until the amp rest vertical on its rear handle.

-Remove the plastic bag.

-Move the M7-HPA to its final position (if the floor is hard wood or tile slide the crate cover with the amp on it near final location and move amplifier one cone at a time into the Spike Shoes provided) about 6 or 7 inches on either side of the speaker. If the amplifier will be used on carpet check that the bottom of the cooling fins are clear of the carpet fibers by ½ inch. If less than ½ inch remove the cones and install the stainless steel spacers provided in the tool kit.

## PREPARING THE M7-HPS FOR OPERATION

-Locate and install the two speaker cables. The end with the small 1/8<sup>th</sup> inch DBS plug goes to the amplifier with the one marked with the red band "B" to the first 2 terminals. First terminal "Black" second terminal red "B", third terminal gets the black banded cable marked "M/T" and the forth terminal red "M/T". Do the same on the speaker. DO NOT OVER TIGHTEN THE SCREWS ON THE M7-HPA OR THE SPEAKER AS THEY ARE SOFT GOLD PLATED COPPER! Insert the small 1/8<sup>th</sup> inch DBS plugs on each cable into any 2 of the 3 DBS jacks on the back panel.



-With the provided 7/64<sup>th</sup> hex driver remove the 5 stainless steel socket screws imbedded along the top of the cooling fins on both sides. DO NOT REMOVE THE FIRST SCREW AT THE FRONT OF THE AMP ON EITHER SIDE. Lift the cover straight up and off.

-With the 7/64<sup>th</sup> hex driver remove the 2 black socket head screws protruding above the top truss bar on each end for a total of 4. DO NOT DROP THE SCREWS AS THEY MAY BE VERY DIFICULT TO REMOVE FROM THE BELLY OF THE BEAST!

-Locate the white plastic shipping restraints and remove them sideways while wiggling the truss slightly from between the bottom of the truss and the truss mount. There are 4 pre tapped 6/32 holes on the back side of the front panel, 2 on each side. Take the 2 plastic and their black mounting screws and screw them to the back panel for future use. The screws will not go all the way in as they are too long, just snug them.

-Carefully reinstall the top cover and its 10 screws (5 per side).

-Plug in the power cord directly into a suitable wall plug. Do not plug into a line conditioner as one is included in the M7-HPA.

## TUBE REPLACEMENT OR ROLLING

-Unplug the power cord and wait 20 minutes. Remove the 10 cover screws with the included 7/64<sup>nd</sup> hex driver. Carefully lift the cover straight vertical and set it aside.

-Tube compliment: 1 each 6N1P-EV, 1 each 6H30 per amplifier. The M7-HPA has a slow ramp up and ramp down of the filaments for long life. Average life for both tubes is 5 years.

-To replace either tube the stockade must be opened by using the 7/64<sup>nd</sup> hex driver and removing the 2 stainless cap screws. DO NOT DROP THE SCREWS INTO THE BELLY OF THE BEAST!

-BE CAREFUL NOT TO TOUCH THE PLATE LOAD RESISTORS THAT STAND VERTICAL OFF THE PRINTED CIRCUIT BOARD INBETWEEN THE TWO TUBES AS THEY ARE FRAGILE.

-Slowly wiggle and pull the tubes out being careful not to let the tip of the tube hit the nearby heat radiators.

-Carefully index the tubes pins (6H30 closest to the copper heat sink) and reinstall the stockade and cap screws.

Note: the M7-HPA has auto bias but the tubes need to be within a certain range. If you get the replacement tubes from Vandersteen Audio they will be tested and fall within the range of the circuit. If you are tube rolling Vandersteen Audio will test them for free to assure they are usable.

-Reinstall the cover with its 10 cap screws.

-Plug in the power cord and turn on the switch/circuit breaker on the rear panel.

## MAINTENANCE

To clean the M7-HPS exterior use a clean microfiber cloth moistened with water if necessary. No other maintenance required as the liquid cooling oil is permanent.

DO NOT TRANSPORT THE M7-HPA WITHOUT THE WHITE SHIPPING RESTRAINTS INSTALLED!

## SPECIFICATIONS

-Frequency response: 100Hz -3db – 200k -3db High Pass Amplifier

-Power: 600 watts 4 ohms, 120 volt line

-Input impedance: 200k Balanced

-Gain: 25db

-Distortion: .15% at 300 watts

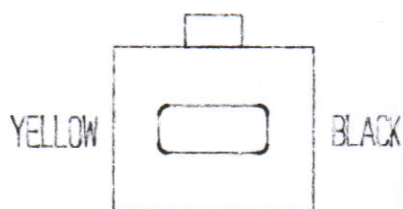


-Signal to noise: -90db A weighted 2 volts out. -110db full power.

-Power consumption in Standby (green): 30 watts Operate (blue): 200 watts.

#### 12 VOLT TRIGGER

-12 volt pulse "ON" 12 volt pulse "OFF"



YELLOW=12 VOLT TRIGGER +

GREEN=12 VOLT TRIGGER -

RED=12 VOLT .4 AMP + FOR FUTURE USE

BLACK=12 VOLT .4 AMP - FOR FUTURE USE

NOTE: IF USED WITH ANY COMPONENT USING RJ-11  
CONNECTORS CUT THE RED AND BLACK WIRES IN THE  
CABLE SO THAT THE 12 VOLT FOR FUTURE USE DOES NOT  
CAUSE PROBLEMS.

#### WARRANTY

Vandersteen M7-HPA High-Pass Amplifier is warranted for 5 years to the original purchaser to be free from defects in material or workmanship, SUBJECT TO THE FOLLOWING CONDITIONS AND LIMITATIONS:

This warranty is void and inapplicable if the amplifier has:

- A. Not been used in accordance with the instructions contained in this operation manual; example of which would be damage caused by tube rolling with tubes not tested by Vandersteen to be within acceptable parameters.
- B. Been subjected to misuse or abuse.
- C. Been modified, repaired, or tampered with by anyone not specifically authorized to do so by Vandersteen Audio.
- D. Been subject to inputs in excess of the maximum ratings.
- E. Suffered physical damage to the structure or components due to accident, neglect, or transportation.
- F. Act of God.