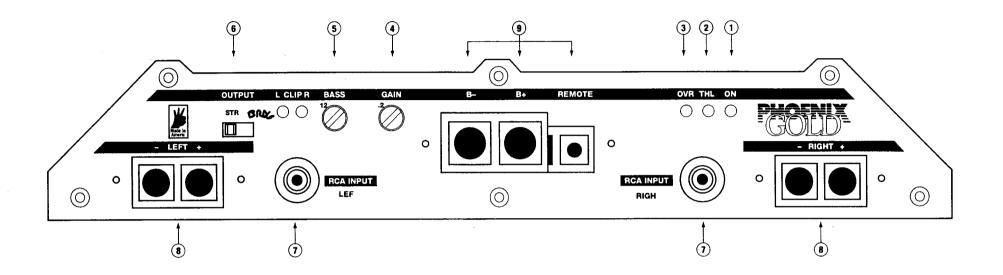
AMPLIFIER CONTROLS AND FUNCTIONS



1. Power On LED Indicator

Indicates proper amplifier function.

2. THL LED indicator

This LED lights up if the amplifier has shut itself down because the temperature of the heatsink has reached a temperature of 90°C (200°F). In simple terms, the amplifier is **extremely hot!**

3. Overload LED indicator

This LED lights up if the amplifier has shut itself down because of an extremely low impedance load or short connected to the speaker outputs.

4. Gain Adjustment

Allows correct matching of the line output from a CD player, cassette deck, processor, etc. to the input of the MS2125 or MPS2500.

5. Bass Adjustment

Control for bass equalizer circuit which increases output levels below 30Hz.

6. Output (STR/BRDG) switch

Switches the MS2125 and MPS2500 to stereo (STR) or bridged (BRDG) mode. In the bridged mode, the left input jack drives both channels for

bridged mono operation. If the amplifier is to be operated in the **Tri-Linear** mode, leave switch in stereo mode with both left and right RCAs connected.

7. RCA Connectors

The MS2125 and MPS2500 are designed to accept audio input from any source unit or signal processor with RCA preamp (line level) outputs.

8. Speaker Connectors

This specially tooled connector is designed to accommodate up to a 7 gauge speaker cable. Be sure to connect positive and negative leads correctly!

9. Power Connectors

This specially tooled connector is designed to accommodate up to a 2 gauge power cable. Connect the B– terminal to battery negative and the B+ terminal to battery positive. Connect the Remote terminal to a switched +12V DC source to allow the amplifier to be turned off and on by the source unit.

MS2250 AMPLIFIER AND FAN SHROUD INSTALLATION

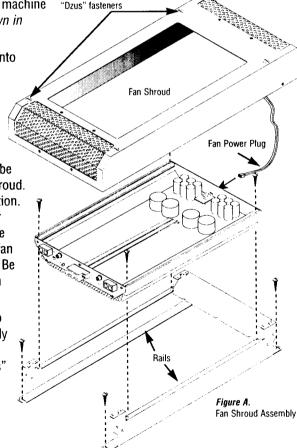
- 1. The MS2250 is shipped with the fan shroud assembled to the amplifier and mounted to a 1/4 inch thick mounting board which doubles as a template. Remove the amplifier from it's mounting board.
- 2. Using the board as a template, mark all mounting holes and wire routing holes.
- 3. The mounting holes for the "Rails" should be drilled with a 1/8" inch drill bit. Holes for the wire should be drilled slightly larger than the actual diameter of the wires and RCA connectors you decide to use. Measure twice and drill once.
- 4. Mount the "Rails" to the desired surface (preferably not metal) with the four #8 x 1/2" sheet metal screws.

5. Lower the amplifier upside down onto the "Rails" with the bottom facing up (with the plexi-glass still mounted to the amplifier). Mount the amplifier with the four #10-32 x 1 1/4" machine "Dzus" fasteners screws to the "Rails" as shown in

figure A.

6. Lower the fan shroud down onto the amplifier/rail assembly. Make sure that the end that houses the "fans" is at the back of the MS2250 (the end without connectors). There is a small 2 conductor wire with a connector that should be "dangling" down from the shroud. This is the fan power connection. Plug the fan power connector through the square hole at the rear of the amplifier into the fan thermal speed control board. Be careful not to apply too much force on this connector!

7. Finally, lower the shroud onto the amplifier and rail assembly and use a large flat head screwdriver to turn the "Dzus" fasteners a 1/4 turn until it "locks-up".



AMPLIFIER FERTURE

2 x 340W per channel • 1060W bridged mono
Bridgeable Outputs
TRI-LINEAR [™] output capability, simultaneous stereo and
bridged mono operation possible
Adjustable Bass EQ 0 to +12dB at 30Hz
Pulse Width Modulated (PWM) MOSFET Switching Power Supply
RIBBON-WINDING [™] of Power Toroid
Low RFI / EMI design
Stable into 2 Ω stereo or 4 Ω bridged mono loads
High Current Triple-Darlington Output Design
Gold Plated, Double-Sided 2 oz G10 Glass Epoxy PCB
Variable input sensitivity .2V to 5V
Fully muted turn-on / turn-off circuitry
Optically isolated Power and Signal grounds
Custom fan shroud with thermally controlled 2 speed fan
Output Status LED's
Extensive burn-in and QC testing for the ultimate in reliability
MADE IN THE GOOD OL' USA

AMPLIFIER SPECIFICATIONS

Ü	Output Power - Both Channels Driven	
	Into 4 Ω @ 13.8V DC	340 WRMS
	Into 2 Ω @ 13.8V DC*	
	Bridged Power into 4 Ω*	
	THD at rated power 4 Ω	
	SMPTE at rated power 4 Ω	
	DIM at rated power 4 Ω	
	Frequency response	15Hz to 20KHz +/-1dB
	Signal to Noise Ratio	>100 dB (20 to 20kHz)
_	Input Sensitivity	200mV to 5V
	Input Impedance	10K Ω
ā	Typical Idle Current	3 Amps
	Power Supply Efficiency	> 80%
ā	Damping Factor (60Hz, 4Ω)	
$\overline{\Box}$	Max Battery Voltage	
Ē	Amplifier Dimensions	17.00" L x 11.40" W x 2.40" H
ā	Fan Shroud Dimensions	25.50" L x 11.75" W x 3.35" H

^{*}NOTE: Impedance loads below 2 Ω stereo/4 Ω bridged mono are not rated due to thermal limitations.