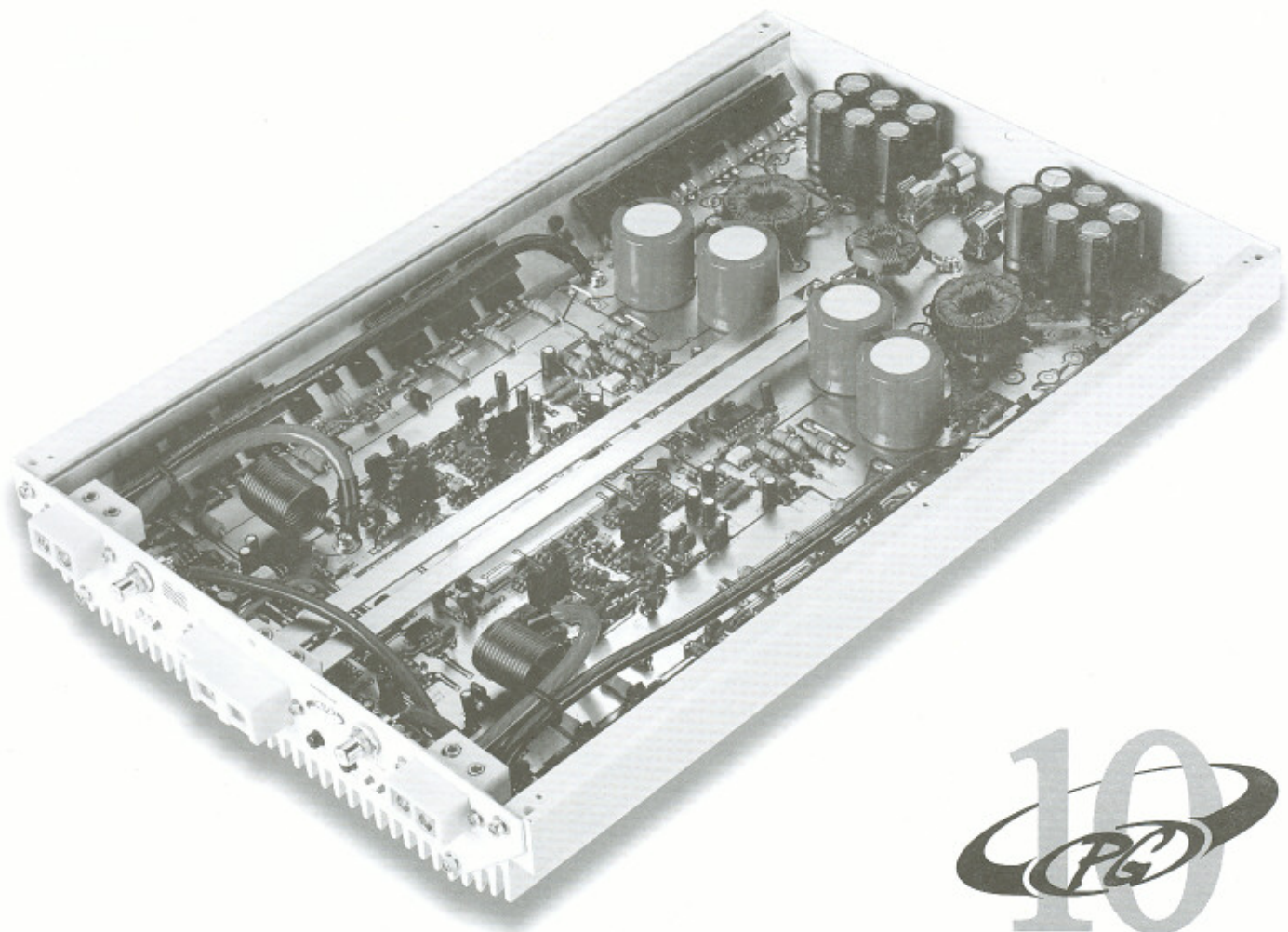


PHOENIX GOLD



10
PG
MS SERIES

FEATURES

Special 10th Anniversary Edition

FOR COMPLETE MANUALS, TECHNICAL TIPS, FAQ'S, SYSTEM DIAGRAMS AND NEW PRODUCT INFORMATION VISIT US @

- Dual MonoBlock design for the ultimate in headroom and power
- High-current Triple Darlington output stage
- Tri-linear™ capability allows simultaneous stereo and bridged operation
- Bass Boost circuit provides up to 18 dB of boost below 40 Hz
- Superbrite™ bias LEDs located on the gold plated circuit board
- Independent Thermal and Overload protection LED indicators
- Gold plated power and speaker terminals
- Gold plated, 2-ounce copper, double-sided G10 glass-epoxy printed circuit boards
- Audiophile grade capacitors and 1% tolerance metal film resistors throughout the audio path
- Includes both metal and clear lexan bottom panels for install flexibility

SERIES

SERIES

MS SERIES

DEAR PHOENIX GOLD ENTHUSIAST,

Thank you for purchasing this Phoenix Gold product. By doing so, you have demonstrated a desire to own the finest audio components available for your car and home. At Phoenix Gold, we use state-of-the-art design, engineering, and production methods to continually improve the quality, reliability, and performance of our products.

Phoenix Gold's Mobile Series, or MS Series amplifiers, first revolutionized car audio 10 years ago with their overbuilt, audiophile design. The dual-mono power supply allows for incredible amounts of headroom and the ability to run low impedance loads, while the Triple Darlington Output Stage offers the finest sound quality that any amplifier can deliver. The MS series has become a legendary amplifier for the demanding audiophile and competitor. If properly installed by an Authorized Phoenix Gold Mobile Electronics Retailer, this equipment will provide years of high quality performance. For proper operation please read this manual carefully and keep it for future reference.



Keith Peterson
President



MS SERIES

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MS SERIES



B- TERMINAL (CHASSIS GROUND)

Connect to a clean, solid chassis ground. Remove all paint and dirt from the chassis connection point. Minimum cable size is 4 gauge. Keep the cable as short as possible.

STEREO/BRIDGED SWITCH

In "BRDG" mode only the left input jack is used to provide signal to the entire amplifier, the right jack is ignored. In "STR" mode both input jacks must be used for proper operation.

CLIP LEDS

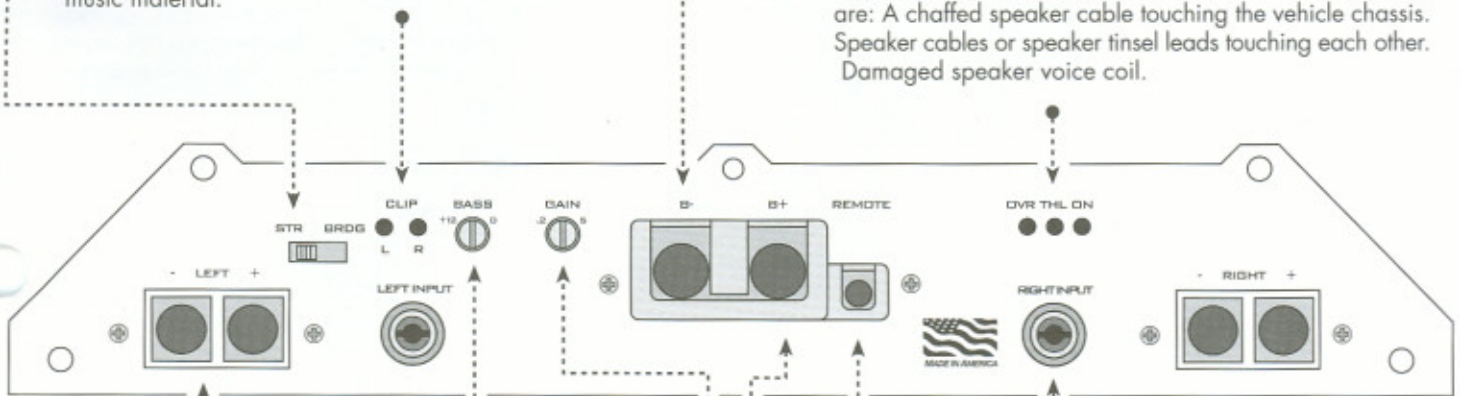
When lit red indicates the amplifier's output is clipping which leads to excess distortion in the audio system. In normal operation, these LEDs can blink with the peaks of the music, but should not remain lit for long periods of music material.

STATUS LEDS

ON - Lights when the amplifier is in Normal Operating mode.

THL - Lights if the amplifier shuts down due to overheating. If the internal heatsink reaches 90 degrees Celsius, the amplifier shuts down. Fans are HIGHLY recommended when mounting the amplifier upside down or running a 2 ohm bridged load.

OVL - Lights if the amplifier shuts down due to excessive output current. Common reasons for excessive output current are: A chaffed speaker cable touching the vehicle chassis. Speaker cables or speaker tinsel leads touching each other. Damaged speaker voice coil.



SPEAKER OUTPUTS

Used to connect the amplifier to speakers. Use the left (+) and right (-) terminals for bridged mode. Minimum speaker cable size is 16 gauge (PG# SS162 or QS162). Use 12 Gauge for bridged operation (SS122 or QS122). Minimum impedance is 2 ohms bridged or 1 ohm stereo.

INPUTS

Connect preamp signal cables from the headunit to these terminals. To maximize noise rejection, we recommend using Phoenix Gold ZEROpoint Musical Reference, ZEROpoint Pro, ZEROpoint QLX, ZEROpoint TRX, XS560 or XS460 series twisted pair interconnects.

BASS EQ

This control allows up to 18dB of boost of frequencies below 40Hz for the speaker outputs. Use this control sparingly. Every 3dB of boost requires double the power below 40Hz.

REMOTE TURN-ON TERMINAL

Connect to a switched 12 Vdc source such as the headunit's "remote" or power antenna wire.

Note: Use a voltmeter to verify that the power antenna wire remains on when operating the CD or tape.

INPUT SENSITIVITY

This control adjusts the amplifier's sensitivity to incoming signals. Clockwise increases sensitivity. Counterclockwise decreases sensitivity. Higher signal levels allow for a lower sensitivity setting and lower overall noise floor. Lower signal levels will require increased sensitivity to reach full power. To maximize performance, we recommend using a PLD1 Professional Line Driver or its equivalent.

B+ TERMINAL (BATTERY POSITIVE)

Connect directly to the positive battery terminal. Minimum cable size is 4 gauge. Remember to properly fuse this cable within 18 inches of the positive battery terminal.

SPECIFICATIONS

Continuous Output Power at 1% THD (watts):

MS2125

Into 4 ohms Stereo @ 14.4 Vdc (IASCA/USAC)	125 x 2
Into 2 ohms Stereo @ 14.4 Vdc	250 x 2
Into 1 ohm Stereo @ 14.4 Vdc	310 x 2
Into 4 ohms Bridged @ 14.4 Vdc	500 x 1
Into 2 ohms Bridged @ 14.4 Vdc	720 x 1
Minimum Speaker Load, Bridged	2 ohms
Minimum Speaker Load, Stereo	1 ohm
Continuous Current Draw @ Full Power *	60 amps
Recommended Fuse	
• Stereo 4 Ω / Stereo 2 Ω / Bridged 4 Ω	60 / 80 / 80 amp
Dimensions (inches)	
• Chassis	17.0 L x 11.4 W x 2.25 H
• Overall	17.5 L x 11.4 W x 2.25 H

MS2250

Into 4 ohms Stereo @ 14.4 Vdc (IASCA/USAC)	250 x 2
Into 2 ohms Stereo @ 14.4 Vdc	500 x 2
Into 1 ohm Stereo @ 14.4 Vdc	500 x 2
Into 4 ohms Bridged @ 14.4 Vdc	1000 x 1
Into 2 ohms Bridged @ 14.4 Vdc	1000 x 1
Minimum Speaker Load, Bridged	2 ohms
Minimum Speaker Load, Stereo	1 ohm
Continuous Current Draw @ Full Power *	100 amps
Recommend Fuse	
• Stereo 4 Ω / Stereo 2 Ω / Bridged 4 Ω	80 / 100 / 100 amp
Dimensions (inches)	
• Chassis	17.0 L x 11.4 W x 2.25 H
• Overall	17.5 L x 11.4 W x 2.25 H

MS1000

Into 4 ohms Stereo @ 14.4 Vdc (IASCA/USAC)	250 x 4
Into 2 ohms Stereo @ 14.4 Vdc	500 x 4
Into 1 ohm Stereo @ 14.4 Vdc	500 x 4
Into 4 ohms Bridged @ 14.4 Vdc	1000 x 2
Into 2 ohms Bridged @ 14.4 Vdc	1000 x 2
Minimum Speaker Load, Bridged	2 ohms
Minimum Speaker Load, Stereo	1 ohm
Continuous Current Draw @ Full Power *	200 amps
Recommended Fuse	
• Stereo 4 Ω / Stereo 2 Ω / Bridged 4 Ω	160 / 200 / 200 amp
Dimensions (inches)	
• Chassis	34.0 L x 11.4 W x 2.25 H
• Overall	35.0 L x 11.4 W x 2.25 H

COMMON SPECIFICATIONS

Total Harmonic Distortion	< 0.02 %
Signal to Noise Ratio (A-weighted)	> 100 dB
Frequency Response	+/- 1 dB, 20 Hz to 20 kHz
Bass Boost	0 to +18 dB below 40 Hz
Input Sensitivity	.200 millivolts to 5 volts
Input Impedance	> 30 kohms
Power Supply Operating Range	10.0 Vdc to 15.5 Vdc
Typical Current Draw at Idle	< 3 amps

*Average continuous current draw when playing typical music material.

Due to ongoing research and development, features, specifications and availability are subject to change without notice.



LIMITED WARRANTY

Phoenix Gold International, Inc. (or "Phoenix Gold") warrants its products against defects in materials and workmanship for a limited period of time. For a period of one (1) year from date of original purchase, we will repair or replace the electronic product, at our option, without charge for parts and labor. The limited warranty period is EXTENDED to three (3) years from date of original purchase if the product was originally installed by an authorized Phoenix Gold electronics dealer and accompanied by a valid sales receipt showing a charge for installation. Customer must pay all parts and labor charges after the limited warranty period expires. The limited warranty period for factory refurbished products expires after ninety (90) days from date of original purchase. This limited warranty applies only to purchases from authorized Phoenix Gold Electronics and Speaker retailers.

This limited warranty is extended only to the original purchaser and is valid only to consumers in the United States. Consumers are required to provide a copy of the original sales invoice from an authorized Phoenix Gold dealer when making a claim against this limited warranty. This limited warranty only covers failures due to defects in materials or workmanship that occur during normal use. It does not cover failures resulting from accident, misuse, abuse, neglect, mishandling, misapplication, alteration, faulty installation, modification, service by anyone other than Phoenix Gold, or damage that is attributable to Acts of God. It does not cover costs of transportation to Phoenix Gold or damage in transit.

This warranty will become void if the serial number identification has been wholly or partially removed, altered or erased. Repair or replacement under the terms of this warranty does not extend the terms of this warranty.

Should a product prove to be defective in workmanship or material, the consumer's sole remedies will be repair or replacement as provided under the terms of this warranty. Under no circumstances shall Phoenix Gold be liable for loss or damage, direct, consequential or incidental, arising out of the use of or inability to use the product. There are no express warranties other than described above.

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