

PHOENIX GOLD®



XS2300 blk

Features

* For complete manuals, technical tips, FAQ's, system diagrams and new product information visit us @

- Defeatable 18dB per octave highpass or lowpass crossover, adjustable from 40 to 800Hz.
- Auxiliary output to send lowpass or highpass signal to an additional amplifier.
- LPL ready, allows the use of an optional LPL44 Lowpass Level control to adjust subwoofer volume.
- Hi-level input capability for easy integration with most factory headunits.
- Tri-Linear™ capability allows simultaneous stereo and bridged mono operation.
- Adjustable TwinT™ bass equalization with +18dB of boost centered at 45Hz.
- 2 ohms bridged / 1 ohm stereo approved.
- Advanced muting circuitry eliminates turn-on and turn-off noises.
- Advanced thermal and overload protection.
- 2 layer, 2 ounce, copper G10 glass-epoxy printed circuit boards.
- Power-on LED indicator.
- Audiophile grade metal film capacitors and 1% metal film resistors.
- PWM Mosfet power supply.
- Gold plated power and speaker terminals.
- Glass filled nylon isolation mounting feet.
- Gold plated signal input and output jacks.
- XS linkable using the optional XS link to connect multiple amplifiers together.





AUXILIARY OUTPUTS Provides either a low pass, high pass or full range signal for an additional amplifier or signal processor. The CONFIG switch determines the state of the signal.

INPUTS Connect pre-amp 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.

HIGH LEVEL INPUTS Connect speaker wires from a headunit without pre-amp level outputs directly to these terminals using the supplied .187" female spade connectors. Maximum input power is 35 watts per channel.

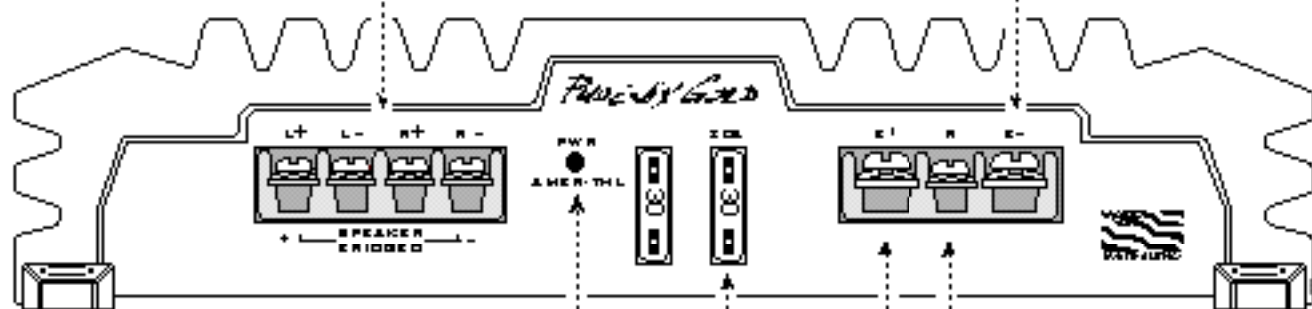
CONFIG SWITCH This switch affects both speaker and auxiliary outputs. The top half of the switch indicates the type of signal fed to the speaker outputs. The bottom half indicates the type of signal fed to the auxiliary outputs. Full range signals bypass all internal crossover circuits.

CONFIG SWITCH SETTINGS

-  Speaker outputs receive high pass signals
Auxiliary outputs receive low pass signals
-  Speaker outputs receive low pass signals
Auxiliary outputs receive high pass signals
-  Speaker outputs receive full range signals
Auxiliary outputs receive full range signals
-  Speaker outputs receive low pass signals
Auxiliary outputs receive full range signals

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.

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 8 gauge. Keep the cable as short as possible.



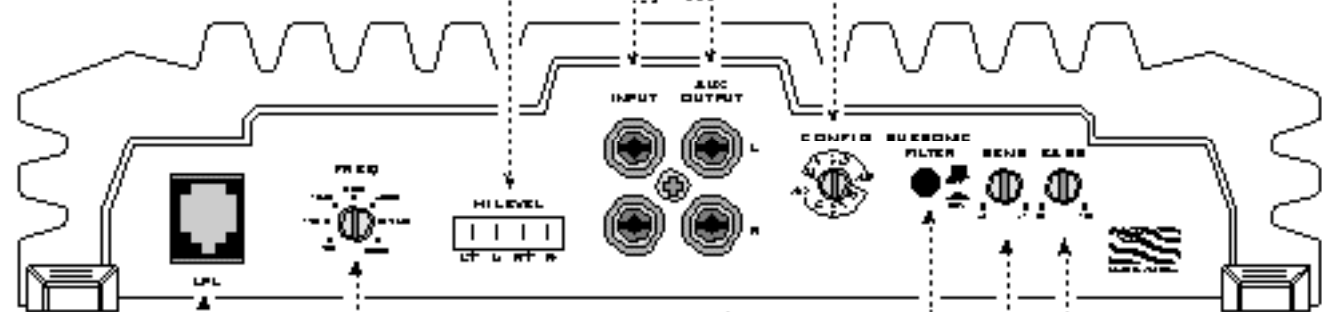
POWER-ON LED This LED turns green when the amplifier is on. The amplifier cannot turn on unless it is grounded through the B- terminal and receiving 12 volts at both the B+ and R terminals. The LED will turn amber if the amplifier shuts down due to overheating (thermal) or turn off if a shorted speaker is present (overload).

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

B+ TERMINAL (BATTERY POSITIVE) Connect directly to the positive battery terminal. Minimum cable size is 8 gauge, although the terminal will accept 4 gauge. Remember to properly fuse this cable within 18 inches of the positive battery terminal.

DC POWER FUSE Used to protect the amplifier's power supply from excess current draw. The fuse located on the right or closest to the power terminals is used to protect the amplifier. While the fuse located to the left or closest to the speaker terminals is a spare replacement fuse. If replacement is necessary, use the same size and type. Use one 30 amp ATO style fuse.

Amplifier	Outputs	Fuse size
XS2300	4 ohms stereo	20 amp
XS2300	2 ohms stereo	30 amp
XS2300	4 or 2 ohms bridged	30 amp



CROSSOVER FREQUENCY Controls the high pass and low pass crossover point for the speaker and auxiliary outputs. Crossover frequency is adjustable from 40Hz to 800Hz with a 18dB per octave high and low pass slope.

LPL CONTROL PORT This port is for connecting the optional LPL44™ Remote Low pass Level Control knob allowing up to 20dB of subwoofer volume adjustment from the driver's seat. The LPL44™ controls the low pass output of the internal crossover regardless of whether the low pass output is routed to the speaker or auxiliary outputs. It will only operate when the low pass crossover is on and it will not affect high pass or full range signals.

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.

TWIN-T™ BASS EQ This control allows up to 18dB of boost at 45Hz for the Speaker outputs. It doesn't affect the auxiliary outputs. Use this control sparingly. Every 3dB of boost requires double the power at 45Hz.

SUBSONIC FILTER When this button is set to the "IN" position the subsonic filter is activated at 30Hz with a 18dB per octave slope. This eliminates extreme low frequencies that in some cases can cause excess amplifier heat or damage to subwoofers.

New features for the XS2300 blk

- High or Low Pass 18dB continuously variable crossover
- Subsonic Filter for eliminating extreme low frequencies
- Dual fuse holder with a spare 30 amp fuse included
- Larger heatsink: 7.75" L by 9.25" W by 2.1" H
- Crossover configured Auxiliary Outputs
- Fully Differential High Level Inputs





XS2300 blk Amplifier

Specifications

Continuous Output Power at 1% THD (watts):

XS2300 blk

Into 4 ohms Stereo @ 12.5 Vdc (IASCA/USAC) . . . . .	.25 x 2
Into 4 ohms Stereo @ 14.4 Vdc . . . . .	.75 x 2
Into 2 ohms Stereo @ 14.4 Vdc . . . . .	.150 x 2
Into 4 ohms Bridged @ 14.4 Vdc . . . . .	.300 x 1
Continuous Current Draw @ Full Power * . . . . .	.30 amps
Peak Current Draw @ Full Power ** . . . . .	.50 amps
Recommended Fuse Size . . . . .	.30A ATO style
Chassis Dimensions . . . . .	.7.75L x 9.25W x 2.00H
Overall Dimensions . . . . .	.9.10L x 9.25W x 2.10H

- * Average continuous current draw when playing typical music material.
- ** Average peak current draw needed for musical peaks (less than 20 milliseconds) when playing typical music material.

Frequency Response . . . . .	.±1dB, 20Hz to 20kHz
Signal to Noise Ratio (A-weighted) . . . . .	.>100dB
Input Sens. (Line-level inputs) . . . . .	.100 millivolts to 3 volts
Input Sens. (Hi-level inputs) . . . . .	.1.75 watts to 35 watts
Crossover Frequency . . . . .	.40 to 800Hz
Crossover Slope . . . . .	.18dB per octave
Bass Boost . . . . .	.0 to +18dB @ 45Hz
DC Input Voltage Range . . . . .	.10 volts to 15.5 volts
Typical Current Draw at Idle . . . . .	.<2 amps
Minimum Bridged Load Impedance . . . . .	.2 ohms
Minimum Stereo Load Impedance . . . . .	.1 ohm

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/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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