

PHOENIX GOLD®



QX90.2 Two Channel Amplifier

FEATURES

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

- High Efficiency Extruded Aluminum Alloy Heatsink
- Variable High or Low Pass Crossover Configurations
- Auxiliary Outputs provide signal for additional amplifiers
- Fully Complimentary Output Stage
- Oversized PWM MOSFET Power Supply
- Low ESR/High Capacitance Voltage Rail Support
- Four gauge power and ground terminals
- Advanced thermal and overload protection
- Optimized muting circuitry eliminates turn-on and turn-off noises
- Gold plated power and speaker terminals
- Gold plated signal input jacks

SPECIFICATIONS

- Into 4 ohms Stereo @ 14.4 Vdc 30W x 2
- Into 4 ohms Bridged @ 14.4 Vdc 90W x 1
- Dimensions: 6.75L x 9.5W x 2.0H



Operational Details

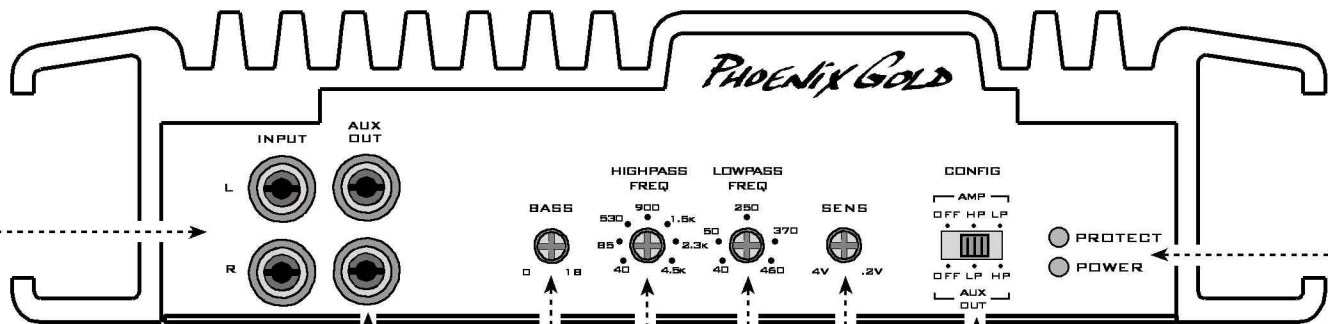
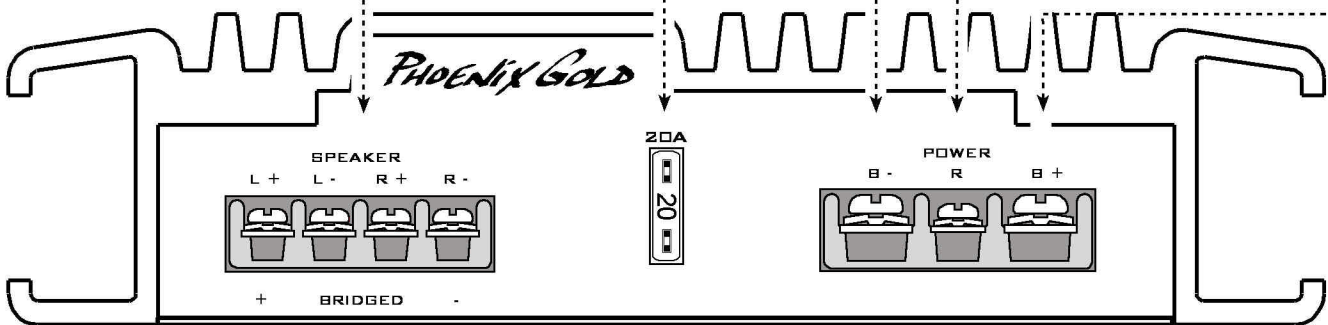
FUSES Used to protect the amplifier. If replacement is necessary, use the same size and type. *Never use a fuse with a higher amp rating.*

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, SS212 or QS122). Minimum impedance is 4 ohms bridged or 2 ohm stereo.

B+ TERMINAL (BATTERY POSITIVE) Connect directly to the positive battery terminal. Minimum cable size is 8 gauge, for best connection use a JA80 ring terminal. Remember to fuse this cable within 18 inches of the positive battery terminal.

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, for best connection use a JA80 ring terminal. Keep the cable as short as possible.

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



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.

BASS EQ This control allows up to 18dB of boost at 45Hz for the speaker and/or auxiliary outputs. Use this control sparingly. Every 3dB of boost requires double the power at 45Hz.

HIGH PASS Crossover FREQUENCY Controls the crossover point for the speaker or auxiliary outputs. The crossover frequency is adjustable from 40Hz to 4.5kHz with a 12dB per octave slope.

INPUTS Connect preamp signal cables from the head unit to these terminals. To maximize noise rejection, we recommend using Phoenix Gold ARx.800, ARx.700, ARx.600 or ARx.500 series twisted pair interconnects.

INPUT SENSITIVITY Used to reach maximum amplifier power with a wide variety of headunits. The amplifier is more sensitive to input signals when set to .2 and less sensitive when set to 4.

LOW PASS Crossover FREQUENCY Controls the low pass crossover point for the speaker or auxiliary outputs. The crossover frequency is adjustable from 40 to 460Hz with a 12dB per octave slope.

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. For Low pass signal set the switch to LP. For High pass signal set the switch to HP. To Bypass crossovers for a full range signal set the switch to OFF.

STATUS LED

GREEN - Lights if the amplifier turns on.
RED - Lights if the amplifier shuts down due to overheating. If the internal heatsink reaches 90 degrees Celsius, the amplifier shuts down until the internal temperature falls below 90 degrees. It also lights if a direct short is present on the speaker outputs.

