

QX300.4 Four Channel Amplifier

SPECIFICATIONS

The QX Series Amplifiers are designed with an emphasis on exceptional power, superior sonic excellence, high performance features and unmatched cosmetics.

Continuous Output Power at 1% THD (watts):

QX300.4

Into 4 ohms @ 12.5(IASCA) /14.4 VDC	.50/60 x 4
Into 2 ohms @ 14.4 VDC	.75 x 4
Bridged into 4 ohms @ 14.4 VDC	.150 x 2
Recommended Fuse Size	.2 x 20 amp ATO
Chassis Dimensions	.13.875L x 9.5W x 2.0H (353mm L x 241mm W x 51mm H)
Overall Dimensions	.15.0L x 9.5W x 2.0H (381mm L x 241mm W x 51mm H)

Total Harmonic Distortion	<.02%
Frequency Response	±1dB 20Hz to 20kHz
Signal to Noise Ratio (20Hz to 20kHz)	>100dB
Signal Input Sensitivity	.200 millivolts to 4 volts
DC Input Voltage Range	.10 Vdc to 15.5 Vdc
Typical current draw at idle	<.15 amps
Bass Boost	.0 to 15dB @ 45Hz
Crossover Slope	.12dB per Octave

Due to on-going continuous product 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. Customer must pay all parts, labor and shipping 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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FEATURES

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



- Variable 12dB per octave crossover from 40 to 800Hz highpass and lowpass
- Superbrite™ blue power-on LED
- Adjustable 0 to +15dB Twin-T™ 45Hz bass boost
- Remote Monitoring Display output
- Tri-linear™ capability allows simultaneous stereo and bridged mono operation
- TAIM™ Muting circuitry for soft turn-on and turn-off
- Fully complimentary output stages
- Advanced overload and thermal protection circuitry
- High current buss bars for all high current/high voltage stages
- PWM MOSFET power supply
- Gold plated high current power and speaker terminals
- Gold plated signal input jacks
- Unique thermal black anodized finish
- Optional Q-Link available for seamless installation of multiple amplifiers

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Operational Details

System Examples

STATUS LEDs

BLUE - Lights when amplifier is 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 too low of an impedance or a direct short is present on the speaker outputs.

REMOTE TURN-ON TERMINAL

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

REMOTE VOLTAGE DISPLAY INPUT

Connect the optional ZRMD Voltage Display to this jack.

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.

B+ TERMINAL (BATTERY POSITIVE)

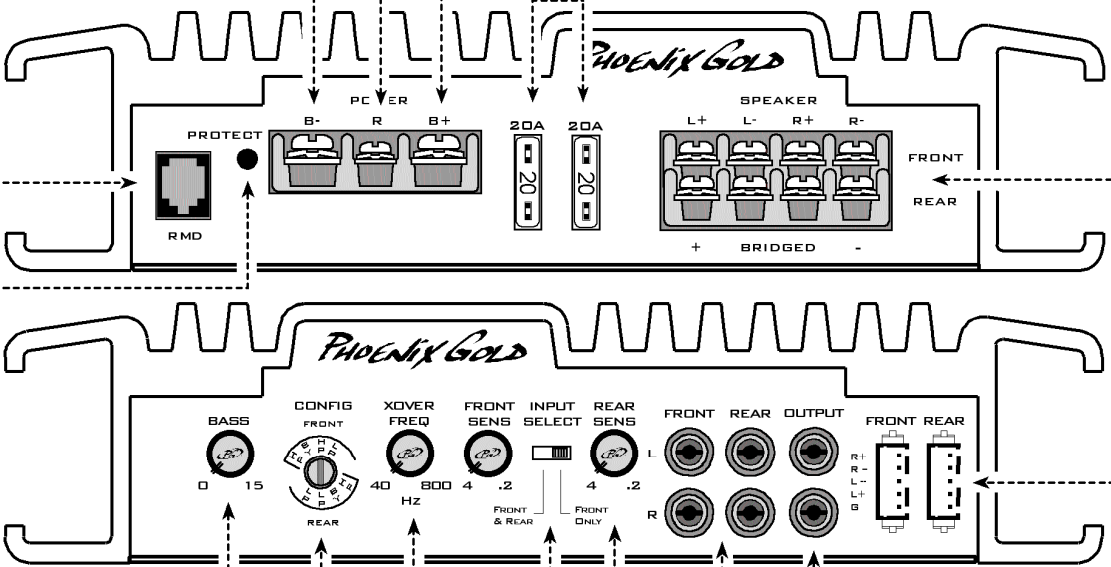
Connect directly to the positive battery terminal. Minimum cable size is 8 gauge. Remember to properly fuse this cable within 18 inches of the positive battery terminal.

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 4 ohms bridged or 2 ohms stereo.

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. The QX300.4 uses two 20 amp ATO style fuses.



TWIN-T™ BASS EQ

This control allows up to 15dB of boost at 45Hz for the Speaker outputs. It cannot affect the auxiliary outputs. Use this control sparingly. Every 3dB of boost requires double the power at 45Hz.

CROSSOVER CONFIG SWITCH

This switch controls the type of signal that reaches the speaker outputs. For a High pass signal set the switch to HP. For Low pass signal set the switch to LP. For a Full Range signal set the switch to BY.

CROSSOVER FREQUENCY

Controls the crossover point symmetrically for the front and rear speaker outputs. The crossover frequency is adjustable from 40Hz to 800Hz with a 12dB per octave high and low pass slope.

INPUT SELECT

When set to "Front Only" the front inputs will provide signal for the front and rear channels. When set to "Front & Rear" both the front and rear inputs will accept signals separately for use with a headunit fader.

AUXILIARY OUTPUT

Provides a full range signal for an additional amplifier.

LINE LEVEL INPUTS

Connect preamp signal cables from the headunit 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

Separate front and rear controls are 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.

HI-LEVEL INPUTS

Connect speaker wires from a headunit without line level outputs directly to the supplied terminal. Maximum input power is 35 watts per channel. Never use Line and Hi-Level Inputs at the same time.

CONFIG Setting	Front Channels Output	Rear Channels Output
	Low Pass 20Hz to (40Hz - 800Hz)	Low Pass 20Hz to (40Hz - 800Hz)
	High Pass (40Hz - 800Hz) to 20kHz	Low Pass 20Hz to (40Hz - 800Hz)
	Full Range 20Hz - 20kHz Bypasses internal crossovers	Full Range 20Hz - 20kHz Bypasses internal crossovers
	High Pass (40Hz - 800Hz) to 20kHz	High Pass (40Hz - 800Hz) to 20kHz

Use the **CONFIG** switch to direct signals to both front and rear speaker outputs.

The **FREQ** control determines both high pass and low pass crossover points. The crossover frequency is adjustable from 40 to 800Hz.

