



Titanium 1000.2 2 Channel Amplifier

SPECIFICATIONS

Continuous Output Power at 1% THD (Wrms):

Titanium 1000.2	
Into 4 ohms Stereo @ 12.5 Vdc (IASCA/USAC)	100 x 2
Into 4 ohms Stereo @ 14.4 Vdc	250 x 2
Into 2 ohms Stereo @ 14.4 Vdc	500 x 2
Into 4 ohms Bridged @ 14.4 Vdc	1000 x 1
Recommended Fuse Size	80 amp
Dimensions, Overall (inches)	25.50 L x 10.00 W x 2.25 H

Common Specifications

Frequency Response	±1dB, 20Hz to 20kHz
Signal to Noise Ratio (A-weighted)	>110dB
Input Sensitivity	100 millivolts to 6 volts
Crossover Frequency	40Hz to 800Hz
Crossover Slope	24dB per Octave
Bass Boost	0 to +18dB @ 45Hz
DC Input Voltage Range	10 volts to 15.5 volts
Typical Current Draw at Idle	<4 amps
Minimum Bridged Load	2 ohms
Minimum Stereo Load	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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Titanium
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Titanium
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FEATURES

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

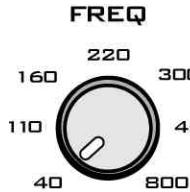
- TCH™ Thermal Convection Cooled Heatsink. This proprietary design uses a variable speed fan to ensure that the Titanium amplifiers keeps its cool when the music gets hot!
- TAIM™ Timed Acoustically Integrated Muting. Ensures dead silent turn on and turn off. No clicks, pops or buzzes.
- Output current sensing allows the Titanium amplifiers to automatically optimize the power supply and output stage to reliably operate at impedances as low as 2 ohms bridged or 1 ohm stereo.
- 24dB per octave, high pass or low pass crossover. Continuously variable from 40 Hz to 800 Hz.
- Auxiliary outputs route high pass, low pass or full range signals to another amplifier.
- Twin-T™ Bass Boost circuit provides up to 18dB of boost at 45 Hz.
- Optional LPL44™ Low Pass Level controller allows the driver to adjust bass volume from the driver's seat.
- Optional RDDP™ Remote Diagnostic Display Panel uses two tri-color LED's allowing the driver to monitor the amplifier's battery voltage, power-on, thermal and overload status.
- Optional SDT™ Superior Digital Technology allows the driver to monitor the amplifier's battery voltage with a vacuum florescent display along with a tri-color LED indicating power-on, thermal and overload status.
- Optional RMD Remote Monitoring Display allows system voltage to be displayed anywhere in the vehicle.

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Operational Details

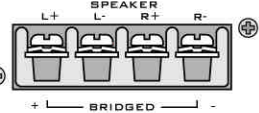
CROSSOVER FREQUENCY

Controls the high pass and low pass crossover point for front speakers and auxiliary outputs. Crossover frequency is adjustable from 40 Hz to 800 Hz with a 24dB per octave high or low pass slope.



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

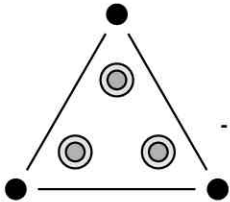
Connect preamp signal cables from the head unit to these terminals. To maximize noise rejection, we recommend using Phoenix Gold ARx.800, Arx.700, ARx.600, or ARx.500 series twisted pair interconnects.

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.

POWER-ON LEDS (Top of Amplifier)

Three Superbrite™ blue LED's light when the amplifier is turned on indicating that the amplifier is grounded through the B- terminal and is receiving voltage through the B+ and remote turn-on terminals.



TWIN-T™ BASS EQ

This control allows up to 18dB of boost at 45 Hz for the speaker outputs. It cannot affect the auxiliary outputs. Use this control sparingly. Every 3dB of boost requires double the power at 45 Hz.

INPUT SENSITIVITY

This control adjusts the amplifier's sensitivity to incoming signals. Clockwise increases sensitivity. Counter-clockwise 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 Phoenix Gold Line Driver.

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. Note: Full range signals bypass all internal crossover circuits.



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

RMD PORT

Connect the optional RMD Voltage Display to this terminal. This allows the amplifier's operating voltage to be monitored from anywhere in the vehicle.

B+ TERMINAL (Battery Positive)

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

B- TERMINAL (Chassis Ground)

Minimum 4 gauge or voids warranty. Connect to a clean, solid chassis ground or negative battery terminal. Remove all paint and dirt from the chassis connection point. Minimum cable size is 4 gauge.



POWER

B-

B+

R

REMOTE TURN-ON TERMINAL

Connect to a switched 12 Vdc source such as the head unit'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.

PROTECTION LEDS (Visible Through Plexi Window)

YELLOW: Thermal - Lights if the amplifier shuts down due to overheating. If the internal heatsink overheats, the amplifier shuts down and continues to run the fan at high speed until the internal heatsink temperature cools down.

RED: Overload - Lights if the amplifier shuts down due to excessive output current. Common reasons for excessive output current:

- Total speaker impedance too low causing excessive output current.
- Exposed copper from speaker cable touching the vehicle chassis.
- Speaker cables or speaker tinsel leads touching each other.
- Damaged speaker voice coil or passive crossover components.

