Titanium 1200.1 Mono Block Amplifier

SPECIFICATIONS

Continuous Output Power at 1% THD (watts):

Titanium 1200.1

Into 4 ohms @ 12.5 Vdc (IASCA/USAC) . . . . . .250 x 1
Into 4 ohms @ 14.4 Vdc . . . . . .600 x 1
Into 2 ohms @ 14.4 Vdc . . . . . .1200 x 1
Into 2 ohms @ 14.4 Vdc (Dynamic Power) . . . . . .1400 x 1
Recommended Fuse Size . . . . . .120 Amps
Dimensions . . . . . .25.5L x 10.0W x 2.35H

Common Specifications

Frequency Response . . . . . .±1dB, 20Hz to 20kHz
Signal to Noise Ratio (A-weighted) . . . . . .>110dB
Input Sensitivity . . . . . .200 millivolts to 6 volts
Lowpass Crossover Frequency . . . . . .50Hz to 250Hz
Highpass Crossover Frequency . . . . . .40Hz to 800Hz
Subsonic Frequency . . . . . .5Hz to 50Hz
Crossover Slopes . . . . . .24dB per Octave
Bass EQ Level . . . . . .-12dB to +12dB
Bass EQ Range . . . . . .30Hz to 120Hz
DC Input Voltage Range . . . . . .10 volts to 15.5 volts
Typical Current Draw at Idle . . . . . .2 amps
Minimum 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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PHOENIX GOLD

Titanium series

Titanium 1200.1
Mono Block Amplifier

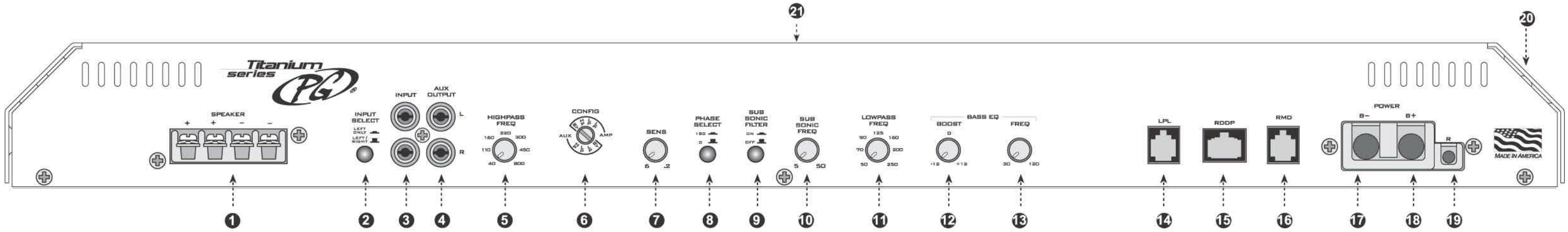
FEATURES

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

- **24dB per Octave Low Pass crossover: Variable from 30 to 250Hz**
- **24dB per Octave High Pass crossover: Variable from 40 to 800Hz**
- **24dB per Octave Subsonic Filter: Variable from 5 to 50Hz**
- **Auxiliary Output provides a High or Low Pass signal to an additional amplifier**
- **LPL Ready: Optional LPL44 allows the subwoofer volume to be adjusted from the dash**
- **Remote Monitoring Display output connects to optional RMD voltage display**
- **RDDP output connects to optional SDT Voltage Display or RDDP Status LEDs**
- **Adjustable Twin-T™ bass equalization with +/-12dB from 30 to 120Hz**
- **TCCH Heatsink technology featuring dual variable speed fans**
- **Optimized muting circuitry eliminates turn-on and turn-off noises**
- **2 layer, 2 ounce, copper G10 glass-epoxy printed circuit boards**
- **Advanced thermal and overload protection**
- **Features Surface Mount Technology**
- **Audiophile grade capacitors and resistors**
- **Gold plated power and speaker terminals**
- **Gold plated signal input and output jacks**

Operational Details

CAUTION: Do not attempt to strap or combine two Ti1200.1's together. This will damage the amplifiers.



1 SPEAKER OUTPUTS
Used to connect the amplifier to speakers. The separate + and - terminals are internally wired in parallel. Minimum speaker cable size is 12 gauge (PG# SS122, SS212 or QS122).

2 INPUT SELECT
When set to IN only the left input will provide signal for the entire amplifier. When set to OUT the left and right RCA inputs will be summed and sent to the speaker outputs. However the Auxiliary outputs will always be stereo went set to Highpass or Bypass.

3 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.

4 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.

5 HIGHPASS CROSSOVER FREQUENCY
This control adjusts the high pass crossover points for the speaker and auxiliary outputs. Crossover frequency is adjustable from 40Hz to 800Hz with a 24dB per Octave slope.

6 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 a high pass signal set the switch to HP. For a low pass signal set the switch to LP.To Bypass the crossover feauters for a full range signal set the switch to BY.

7 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.

8 PHASE SELECT
Inverts the phase of the speaker outputs from 0 to 180 degrees depending on the switch position. 0 Degrees = OUT 180 Degrees = IN

9 SUBSONIC FILTER
This eliminates extreme low frequencies from reaching the subwoofers. The subsonic filter can only effect the low pass signal and can be turned on or off via the push button.

10 SUBSONIC FREQ
The crossover frequency is adjustable from 5Hz to 50Hz with a 24dB per octave slope.

11 LOWPASS CROSSOVER FREQUENCY
The front control adjusts the low pass crossover points for the speaker and auxiliary outputs. Crossover frequency is adjustable from 50Hz to 250Hz with a 24dB per Octave slope.

12 CUT / BOOST
The BOOST control will change the signal level from -12dB to +12dB.

13 FREQ
The FREQ control will select the center frequency that will be boosted. The frequency is adjustable from 30Hz to 120Hz.

14 LPL CONTROL PORT
This port is for connecting the optional LPL44™ Remote Lowpass 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. The LPL44™ will only work when the low pass crossover is activated. It will not affect high pass or full range signals.

15 RDDP PORT
Connect the optional SDT or RDDP Voltage Display to this terminal. This allows the amplifier's operating voltage to be monitored from anywhere in the vehicle. The SDT is a vacuum flourescent voltmeter with a tri-color LED to indicate the status of the amplifier. The RDDP is two tri-color color LEDS that indicate voltage and status of the amplifier.

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

17 B- TERMINAL (Chassis Ground)
Manditory 4 gauge wiring! Connect to a clean, solid chassis ground. Remove all paint and dirt from the chassis connection point. Keep the cable as short as possible.

18 B+ TERMINAL (Battery Positive)
Manditory 4 gauge wiring! Connect directly to the positive battery terminal. Remember to properly fuse this cable with an 120 amp fuse within 18 inches of the positive battery terminal and amplifier.

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

20 PROTECTION LEDS (VISIBLE THROUGH WINDOW)
RED: Thermal- Lights if the amplifier shuts down due to overheating. If the internal heatsink reaches 115 degrees Celsius, the amplifier shuts down and continues to run the fan at high speed until the internal temperature falls below 115 degrees.
YELLOW: Overload - Lights if the amplifier shuts down due to excessive output current. Common reasons for excessive current are:
- A chaffed speaker cable touching the vehicle chassis.
- Speaker cables or speaker tinsel leads touching each other.
- Damaged speaker voice coil or passive crossover components.

21 POWER-ON LED
Three Superbrite™ blue LED on top of the amplifier 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.