



# Titanium 900.7 Seven Channel Amplifier

## SPECIFICATIONS

Continuous Output Power at 1% THD (watts):

### Titanium 900.7

#### CENTER, FRONT and REAR CHANNELS

Into 4 ohms @ 12.5 Vdc (IASCA/USAC) . . . . .18 x 5  
 Into 4 ohms @ 14.4 Vdc . . . . .50 x 5  
 Into 2 ohms @ 14.4 Vdc . . . . .100 x 5  
 Into 4 ohms Bridged @ 14.4 Vdc (Front/Rear Only)..200 x 2

#### SUB CHANNELS

Into 4 ohms @ 12.5 Vdc (IASCA/USAC) . . . . .25 x 2  
 Into 4 ohms @ 14.4 Vdc . . . . .50 x 2  
 Into 2 ohms @ 14.4 Vdc . . . . .125 x 2

Into 4 ohms Bridged @ 14.4 Vdc . . . . .250 x 1  
 Into 2 ohms Bridged @ 14.4 Vdc . . . . .400 x 1

### Common Specifications

Frequency Response . . . . . ±1dB, 20Hz to 20kHz  
 Signal to Noise Ratio (A-weighted) . . . . . >110dB  
 Input Sensitivity . . . . . 200 millivolts to 6 volts  
 DC Input Voltage Range . . . . . 10 volts to 15.5 volts  
 Recommended Fuse Size . . . . . 80 Amps  
 Typical Current Draw at Idle . . . . . 3 amps  
 Minimum Load . . . . . 1 ohm stereo / 2 ohms bridged  
 Dimensions . . . . . 25.5L x 10.0W x 2.35H

Front and Center High Pass Range . . . . . 40Hz to 4kHz  
 Rear High and Band Pass Range . . . . . 40Hz to 4kHz  
 Sub Low Pass Range . . . . . 40Hz to 400Hz  
 Crossover Slopes . . . . . 24dB per Octave  
 Twin-T Bass Level . . . . . 0dB to +18dB

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.



PHOENIX GOLD INTERNATIONAL

9300 North Decatur  
 Portland, OR 97203  
 Tel: 503.286.9300  
 Fax: 503.978.3380  
 www.phoenixgold.com

# PHOENIX GOLD



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## FEATURES

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

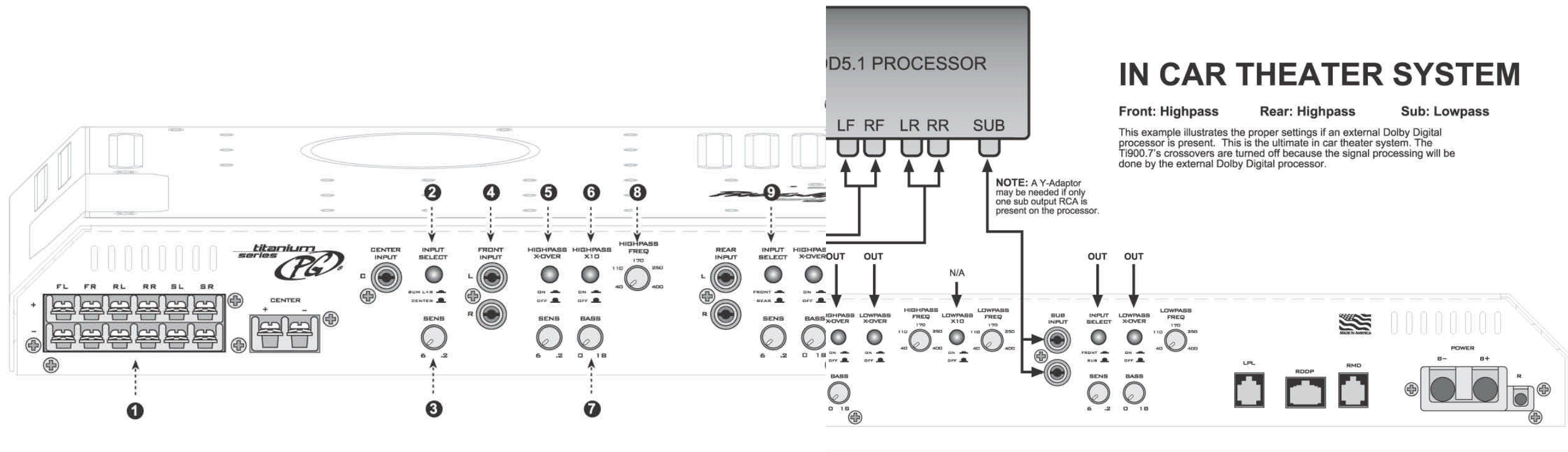
- Seven Channels for Mobile Video and Audio Systems
- Separate crossover filters for front, rear, and sub allow system flexibility
- Current sensing distributes the center channel's power to other channels during 6 channel operation
- Built in center channel processor provides the option of summing the left and right audio signals
- 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 +18dB at 45Hz
- 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

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# Operational Details



## 1 SPEAKER OUTPUTS

Used to connect the amplifier to speakers. To bridge the front, rear, or sub channels use the left channel's + and the right channel's -. The center channel is not bridgeable. Minimum speaker wire size is 16 gauge (PG#SS162).

## 2 CENTER INPUT SELECT

**IN:** Front crossover outputs will be summed into a mono signal and sent to the center channel speaker output. The center channel's preamp input will not be used.  
**OUT:** Center RCA input will provide signal to the center channel speaker output.

## 3 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.

## 4 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.

## 5 HIGHPASS CROSSOVER ON/OFF

**IN:** Turns on the highpass crossover  
**OUT:** Turns off the highpass crossover for full range signal

## 6 X10 MULTIPLIER

**IN:** Multiplies the frequency range of the High or Low Pass crossover by 10. The frequency range is 400 to 40k  
**OUT:** Frequency range of the High or Low Pass crossover is 40 to 400Hz.

## 7 TWIN-T™ BASS EQ

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

## 8 HIGHPASS CROSSOVER FREQUENCY

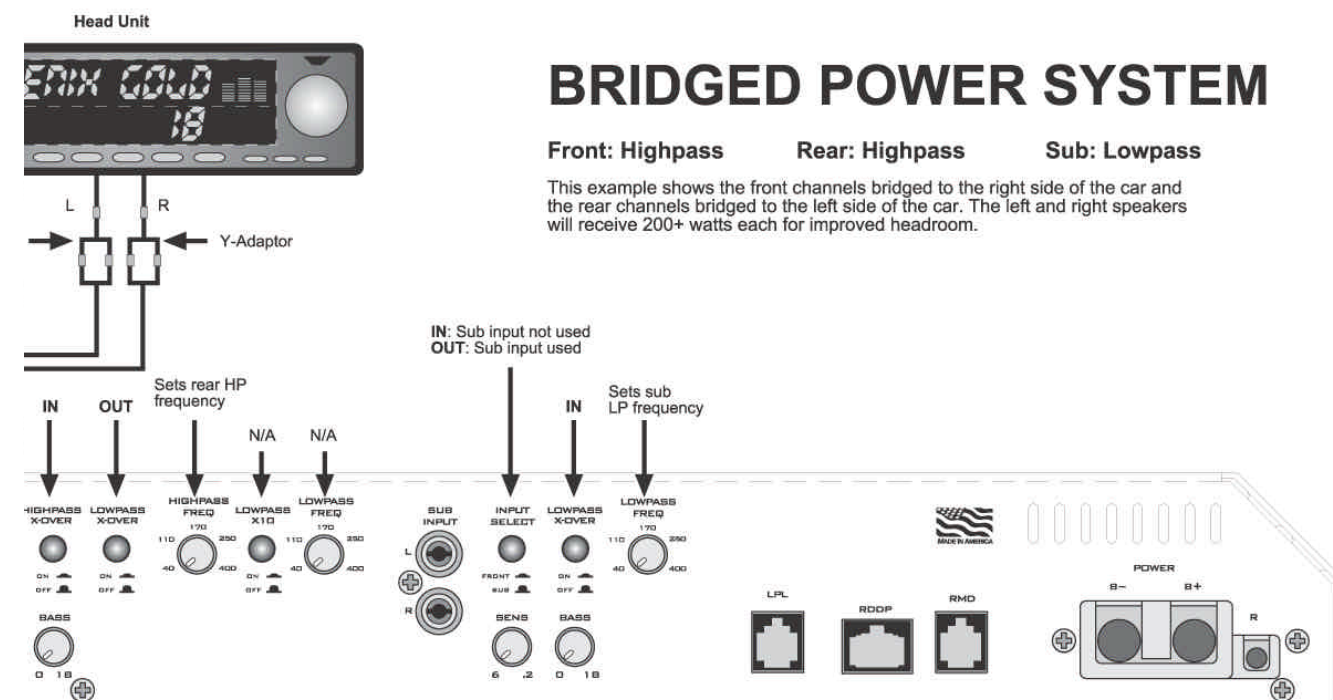
This control adjusts the high pass crossover points for the speaker outputs. Crossover frequency is adjustable from 40Hz to 4KHz with a 24dB per Octave slope.

## 9 REAR INPUT SELECT

**IN:** Front RCA input will provide signal to the rear speaker outputs. This eliminates the need for any RCA Y-Adaptors.  
**OUT:** Rear RCA input will provide signal to the rear speaker outputs. This allows a user to fade between front and rear channels.

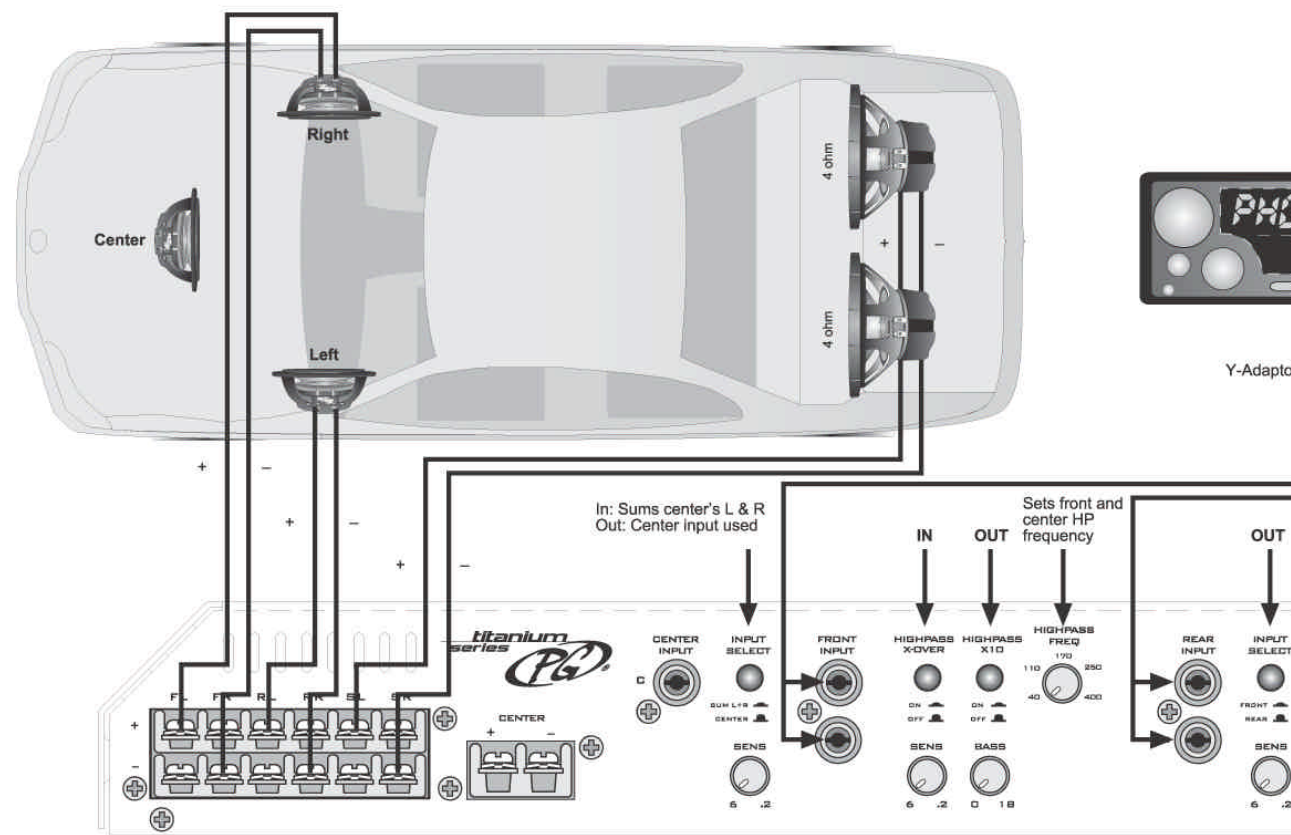
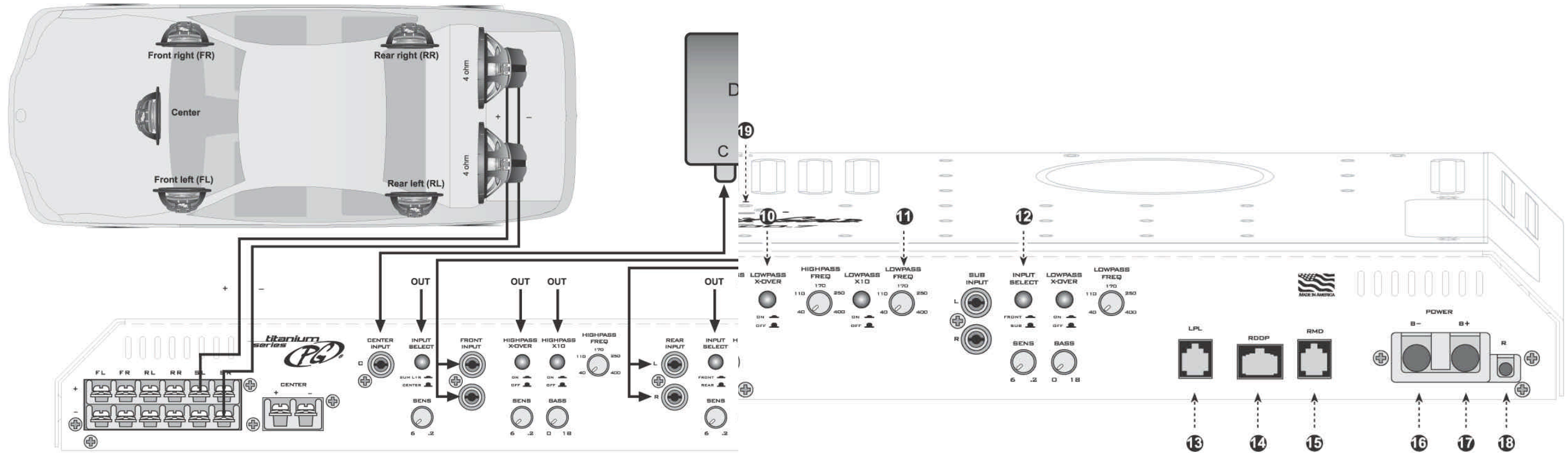
## 10 LOWPASS XOVER

**IN:** Turns on the lowpass crossover  
**OUT:** Turns off the crossover for full range signal





# System Diagrams

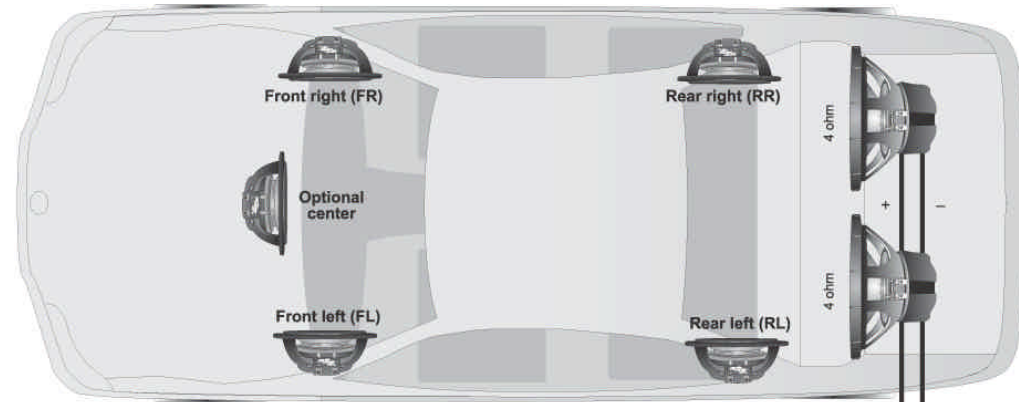


- 11 LOWPASS CROSSOVER FREQUENCY**  
The front control adjusts the low pass crossover points for the speaker and auxiliary outputs. Crossover frequency is adjustable from 40Hz to 400Hz with a 24dB per Octave slope.
- 12 SUB INPUT SELECT**  
*IN:* Front RCA input will provide signal to the sub speaker outputs. This eliminates the need for any RCA Y-Adaptors.  
*OUT:* Sub RCA input will provide signal to the sub speaker outputs. This allows a user to fade between front and sub channels.
- 13 LPL CONTROL PORT**  
This port is for connecting the LPL44™ Remote Lowpass Level Control knob allowing up to 20dB of subwoofer volume adjustment from the driver's seat.
- 14 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 fluorescent voltmeter with a tri-color LED to indicate the status of the amplifier. The RDDP is two tri-color LEDs that indicate voltage and status of the amplifier.
- 15 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.

- 16 B- TERMINAL (Chassis Ground)**  
**Mandatory 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.
- 17 B+ TERMINAL (Battery Positive)**  
**Mandatory 4 gauge wiring!** Connect directly to the positive battery terminal. Remember to properly fuse this cable with an 80 amp fuse within 18 inches of the positive battery terminal and amplifier.
- 18 REMOTE TURN-ON TERMINAL**  
Connect to a switched 12 Vdc source such as the head unit's "remote" or power antenna wire.
- 19 POWER-ON LED**  
The Superbrite™ blue triangle LED on top of the amplifier lights when the amplifiers turned on indicating that the amplifiers are grounded through the B- terminal and is receiving voltage through the B+ and remote turn-on terminals.



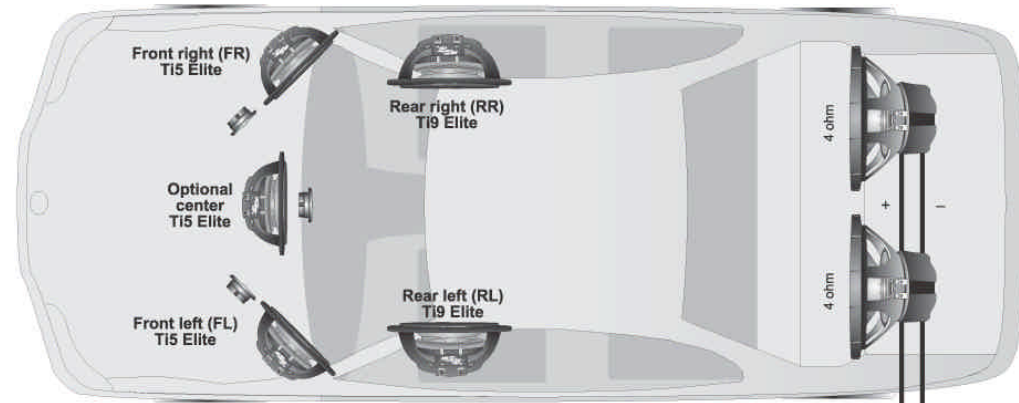
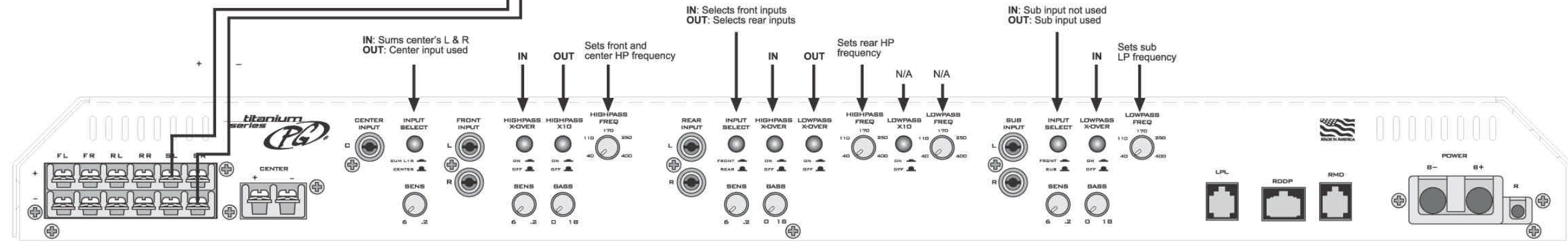
# System Diagrams



## TWO WAY SYSTEM

Front: Highpass Rear: Highpass Sub: Lowpass

This example is for a standard installation that has front, center and rear speakers running highpass. The center channel can have a mono signal that is the left and right channels summed if the input select is set to in. If the center channel is not used the power will be distributed to the other six channels. The sub section will make full power into 2 ohms bridged as shown.



## THREE WAY SYSTEM

Front: Highpass Rear: Bandpass Sub: Lowpass

This example illustrates how the T1900.7 is configured to power a set of T19 Elite midbasses on the rear channels. Notice on the rear channels both the high and lowpass crossover are on, this creates the bandpass filter.

