

**Octane R**

**Monoblock Amplifier**

# **Phoenix Gold**

## **Product Manual**

**R2.0:1**



**ALUMINUM INSERT AND ILLUMINATED CARBON FIBER BADGE**  
INSERTION EN ALUMINUM ET ÉCUSSON ILLUMINÉ EN FIBRE DE CARBONNE

**18dB LOW PASS CONTINUOUSLY VARIABLE CROSSOVER (30-300Hz)**  
FILTRE SOUS-BASSES VARIABLE DE 18dB (30-300Hz)

**18dB SUBSONIC FILTER (20-55Hz)**  
FILTRE SUBSONIQUE À 18dB (20-55Hz)

**LOW PASS LEVEL (LPL) CONTROL READY**  
RÉGLAGE DU SIGNAL GRACE AU CIRCUIT (LPL)

**TWIN "T" BASS EQ CIRCUITRY**  
CIRCUIT BASSE EQ DOUBLE "T"

**OPTIONAL REMOTE MONITORING DISPLAY (RMD)**  
ÉCRAN FACULTATIF POUR CONSULTATION VOLTAGE

**OPTIONAL TUNER INSPIRED BLUE POWER DISTRIBUTION BLOCKS AND AUDIO INTERCONNECTS**  
BLOCS DE DISTRIBUTION POUVOIR ET CABLES CONNECTENT D'AUDIO FACULTATIFS EN BLEU ANODISÉ

**OPTIONAL TUNER INSPIRED BLUE TOP-PLATE AND NEON RAIL REPLACEMENT KITS**  
TROUSSES DE REMPLACEMENT, EN BLEU ANODISÉ, DE BARRE DE NÉON ET DE LA PREMIÈRE PLAQUE



## Operational Details

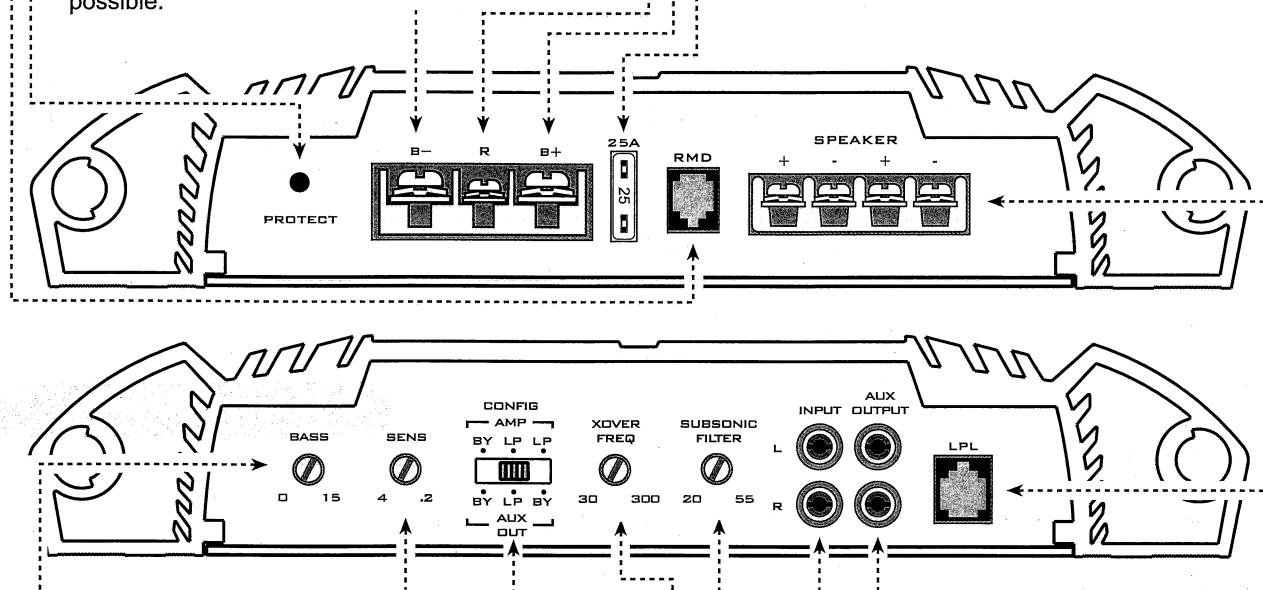
**BADGE** The badge will light blue to indicate the amplifier has turned on. By removing the two mounting screws the badge can be rotated 90 degrees for additional mounting options.

**REMOTE VOLTAGE DISPLAY INPUT** Connect the optional RMD Voltage Display to this jack.

### STATUS LEDs

**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, impedance is too low or a direct short is present on the speaker outputs.

**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.



**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.

**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. To bypass crossover, subsonic and bass boost features set the switch to BY.

**CROSSOVER FREQUENCY** Controls the lowpass crossover point for the speaker and auxiliary outputs. The crossover frequency is adjustable from 30 to 300Hz with a 18dB per octave slope.

**TWIN-T™ BASS EQ** This control allows up to 15dB 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. The bass boost will not effect the signal if the config switch is set to BY/BY.

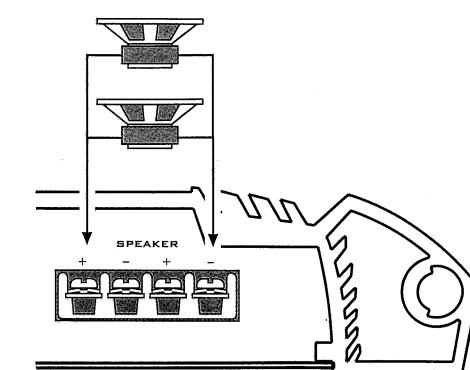
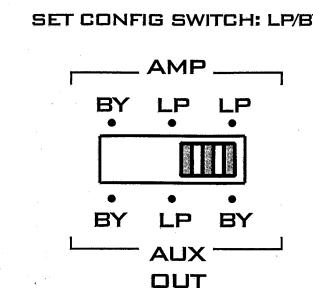
**REMOTE TURN-ON TERMINAL** Connect to a switched 12 Vdc source such as the headunit's "remote" or power antenna wire.

**B+ TERMINAL (BATTERY POSITIVE)** Connect directly to the positive battery terminal. **Minimum cable size is 8 gauge**. Remember to fuse this cable within 18 inches of the positive battery terminal.

**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). Lowest recommended impedance is 2 ohms. **1 ohm operation or lower is not recommended**.

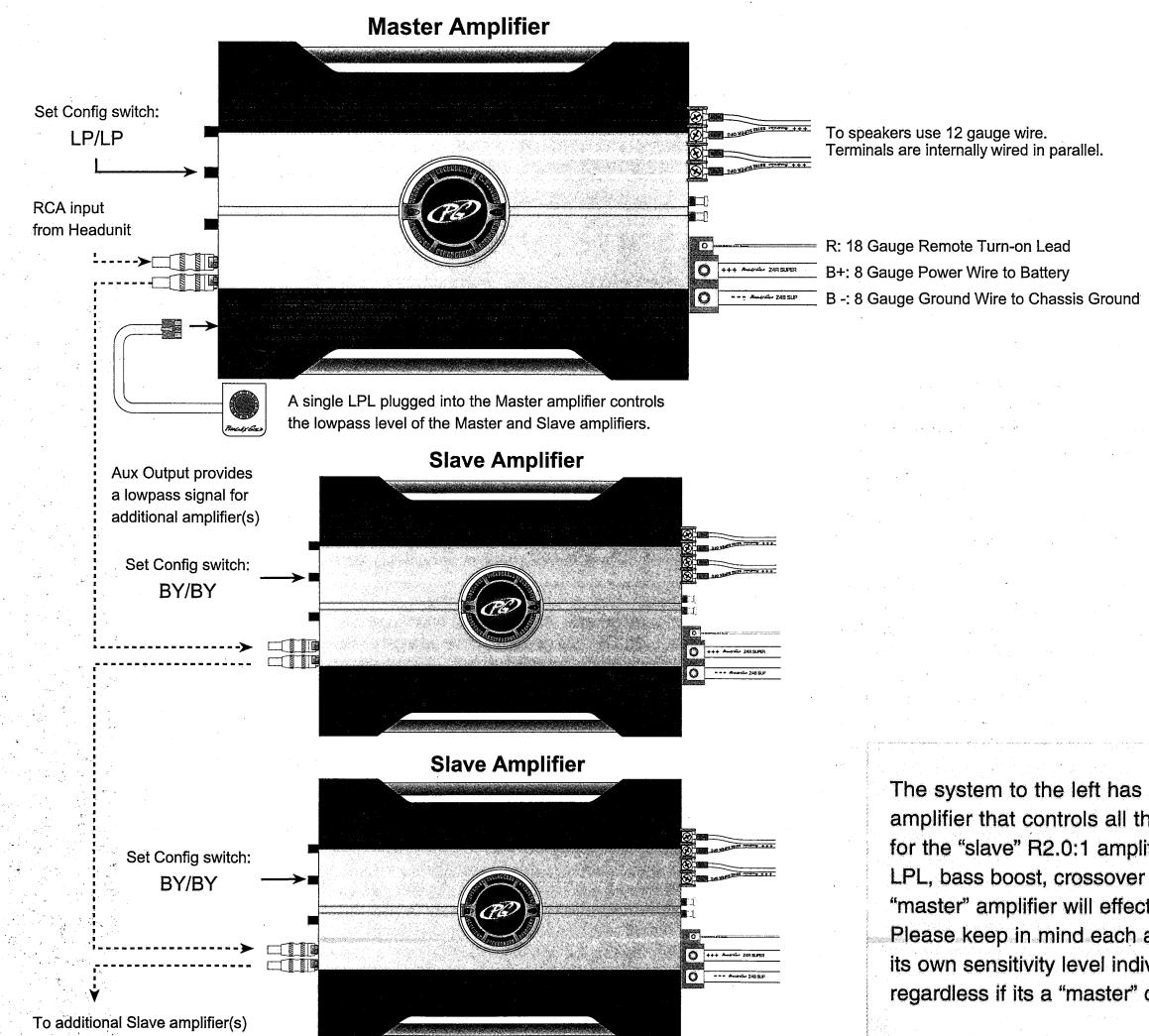
**FUSES** Used to protect the amplifier. If replacement is necessary, use the same size and type as indicated on the endpanel. **Never use a fuse with a higher amp rating**.

2 SVC 4 OHM  
OCTANE-R 12 INCH SUBWOOFERS  
FINAL LOAD: 2 OHM



LOW PASS SYSTEM  
LOWEST RECOMMENDED LOAD  
2 OHM

## SPL System Example



The system to the left has a "master" R2.0:1 amplifier that controls all the signal processing for the "slave" R2.0:1 amplifiers downstream. The LPL, bass boost, crossover and subsonic filter on the "master" amplifier will effect all "slave" amplifiers. Please keep in mind each amplifier must still have its own sensitivity level individually adjusted regardless if it's a "master" or "slave" amplifier.



# Specifications

CONTINUOUS OUTPUT POWER RATED AT 14.4 VDC AND 1% THD (WATTS):

**R2.0:1**

## MAXIMUM POWER OUTPUT

INTO 4 OHM .....	.150 X 1
INTO 2 OHM .....	.200 X 1

## CONTINUOUS POWER OUTPUT

INTO 4 OHM .....	.100 X 1
INTO 2 OHM .....	.175 X 1

RECOMMENDED FUSE SIZE .....	.1 X 25 AMP ATO
CHASSIS DIMENSIONS .....	.11.00L X 10.875W X 2.25H

FREQUENCY RESPONSE .....	.±1dB 20Hz TO 20kHz
SIGNAL TO NOISE RATIO (20Hz TO 330Hz) .....	.>110dB
SIGNAL INPUT SENSITIVITY .....	.200 MILLIVOLTS TO 4 VOLTS
DC INPUT VOLTAGE RANGE .....	.10 VDC TO 15.5 VDC
TYPICAL CURRENT DRAW AT IDLE .....	.<1.5 AMPS
BASS BOOST .....	.0 TO 15dB @ 45Hz
CROSSOVER SLOPE .....	.18dB PER OCTAVE
CROSSOVER RANGE .....	.30 TO 300Hz
SUBSONIC FILTER SLOPE .....	.18dB PER OCTAVE
SUBSONIC FILTER RANGE .....	.20 TO 55Hz
MINIMUM LOAD STABILITY .....	.2 OHM

DUE TO ON-GOING CONTINUOUS PRODUCT DEVELOPMENT, FEATURES, SPECIFICATIONS AND AVAILABILITY ARE SUBJECT TO CHANGE WITHOUT NOTICE.

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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.

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