



**OWNER'S
MANUAL**

Route 66 POWER AMPLIFIER FEATURES

- ❑ 6 × 40W Per Channel
- ❑ TRI-LINEAR™ output capability, simultaneous stereo and bridged mono
- ❑ 9/8/7/6/5/4/3 Channel Operation
- ❑ 4 Channel Asymmetrical 12dB/Octave High Pass and dedicated Low Pass Crossovers Or 2 Channel Asymmetrical 12dB/Octave High Pass and dedicated Low Pass Crossovers
- ❑ Adjustable Bass EQ (0 to +12dB) @ 45Hz
- ❑ Pulse Width Modulated (PWM) MOS-FET Switching Power Supply
- ❑ Stable into 1Ω Stereo Loads
- ❑ Low RFI/EMI design
- ❑ High Current High Voltage Triple Darlington Output Design
- ❑ 2 layer, 2 ounce GOLD PLATED G10 Glass Epoxy PC Board
- ❑ Variable input sensitivity (200mV to 2V)
- ❑ Thermal Overload Protection
- ❑ Fully muted turn-on turn-off circuitry
- ❑ Optically isolated input design
- ❑ VI limiting circuitry with overcurrent LED
- ❑ Extensive burn-in and QC testing for the ultimate in reliability
- ❑ Optional LPL44 Kit • Dash Mount Subwoofer Gain Control
- ❑ 1 Route 66 drink coaster included
- ❑ MADE IN THE GOOD OL' USA

Route 66 POWER AMPLIFIER SPECIFICATIONS

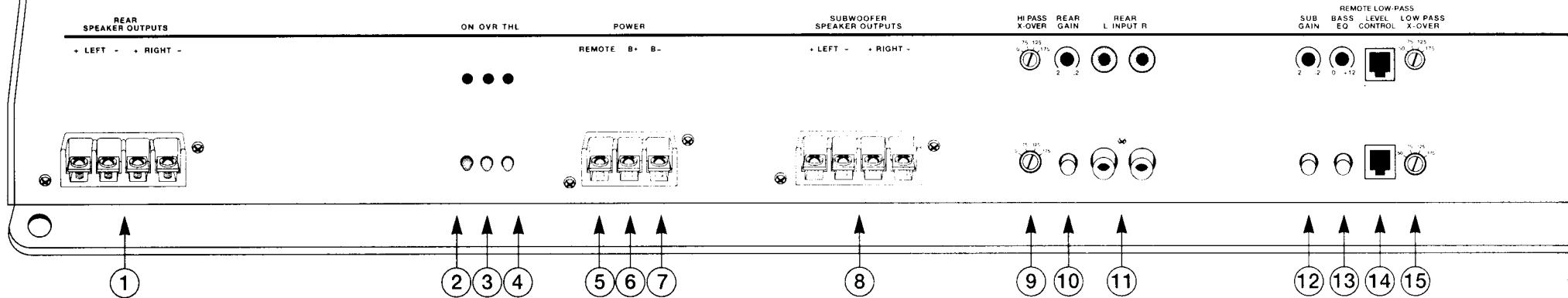
- ❑ RMS Output Power • Six Channels Driven:
 - Into 4Ω @ 12/13.8V DC40/55 WRMS
 - 3 channels into 2Ω @ 12/13.8V DC90/110 WRMS
 - Stereo/Stereo/Mono into 4Ω40/40/160W (3 Channels)
- ❑ Total Dynamic Output Power600W
- ❑ THD at rated power 4Ω< 0.02%
- ❑ SMPTE at rated power 4Ω< 0.05%
- ❑ DIM at rated power 4Ω< 0.01%
- ❑ Frequency response5Hz to 30kHz +/-1dB
- ❑ Signal to Noise Ratio > 100dB (20 to 20kHz)
- ❑ Input Sensitivity200mV to 2V
- ❑ Minimum Output Load Impedance1Ω stereo
- ❑ Input Impedance20kΩ
- ❑ Idle Current2.5A
- ❑ Current Consumption
 - @ 4Ω stereo35A
 - @ 2Ω stereo50A
 - @ 4Ω mono50A
- ❑ Efficiency (Power Supply)> 80%
- ❑ Damping Factor @ (20 to 10kHz)500 to 1
- ❑ Voltage Requirements10.2 to 15.5V DC
- ❑ High Pass Crossover Frequencies0, 75, 125, 175Hz
- ❑ Low Pass Crossover Frequencies50, 75, 125, 175Hz
- ❑ Bass Equalization0-12dB @ 45Hz
- ❑ Dimensions26¹/₄inL × 10.⁵/₈inW × 2inH



ROUTE 66 ANNIVERSARY EDITION

America's Dream Highway • Audiophile's Dream Amplifier

HANDCRAFTED IN THE U.S.A.



1. Rear Speaker Output

This 24kt Gold Plated barrier connector is designed to accept up to 10 gauge speaker cable. We recommend using PHOENIX GOLD PRO404 Gold Plated spade terminals.

2. Power On—Green LED Indicator (One per amplifier section.)

When this LED lights up, the amplifier is ON, with 12V at B+ and Remote wires.

3. Overload—Red LED Indicator (One per amplifier section.)

When this LED lights up, the amplifier has an output current overload.

4. Thermal—Amber LED Indicator (One per amplifier section.)

When this LED lights up, the amplifier has temporarily shut off to protect itself from overheating. The temperature of the heatsink has reached 90°C or 200°F.

5. Remote Turn-On (One per amplifier section.)

This connection allows the Route 66 to be turned on and off by the source unit. Connect the automatic antenna lead and/or “remote” switched 12V DC lead from source unit to this terminal.

6. Power B+ Terminal (Positive 12V DC) (One per amplifier section.)

This 24kt Gold Plated three position barrier type connector is designed to

accept up to 7 gauge power cable. We recommend using PHOENIX GOLD PRO404 Gold Plated spade terminals and an external 30A fuse.

7. Power B- Terminal (Chassis Ground) (One per amplifier section.)

Use the same gauge as the B+ supply cable.

8. Subwoofer Speaker Output

This 24kt Gold Plated barrier connector enables the usage of any size speaker wire. We recommend the PHOENIX GOLD PRO404 (10 gauge) or PRO80/81 (7 gauge) Gold Plated spade terminals.

9. Hi-Pass Crossover Front and Rear (One per amplifier section.)

These four position rotary Hi Pass selectors control the frequency output of front and rear speaker outputs. The corner frequencies are 0Hz (All Pass), 75Hz, 125Hz, and 175Hz.

10. Rear Gain Control

Allows for the correct matching of any signal source from its pre-amp output into the Route 66. Adjustments range from .2V (200 mV) to 2V AC.

11. Front and Rear Inputs (One per amplifier section.)

Any source unit with RCA outputs will operate correctly with all Phoenix Gold amplifiers. The Front inputs drive both the Front and Rear channels unless a signal source is also connected to the Rear inputs

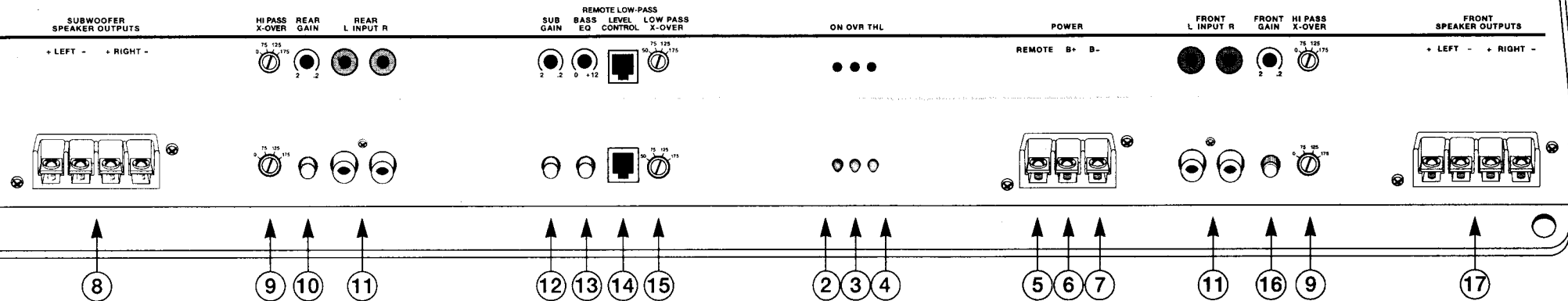


AMPLIFIER CONTROLS AND FUNCTIONS

ROUTE 66 ANNIVERSARY EDITION

America's Dream Highway • Audiophile's Dream Amplifier

HANDCRAFTED IN THE U.S.A.



accept up to 7 gauge power cable. We recommend using PHOENIX GOLD PRO404 Gold Plated spade terminals and an external 30A fuse.

7. Power B- Terminal (Chassis Ground) (One per amplifier section.)

Use the same gauge as the B+ supply cable.

8. Subwoofer Speaker Output

This 24kt Gold Plated barrier connector enables the usage of any size speaker wire. We recommend the PHOENIX GOLD PRO404 (10 gauge) or PRO80/81 (7 gauge) Gold Plated spade terminals.

9. Hi-Pass Crossover Front and Rear (One per amplifier section.)

These four position rotary Hi Pass selectors control the frequency output of front and rear speaker outputs. The corner frequencies are 0Hz (All Pass,) 75Hz, 125Hz, and 175Hz.

10. Rear Gain Control

Allows for the correct matching of any signal source from its pre-amp output into the Route 66. Adjustments range from .2V (200 mV) to 2V AC.

11. Front and Rear Inputs (One per amplifier section.)

Any source unit with RCA outputs will operate correctly with all Phoenix Gold amplifiers. The Front inputs drive both the Front and Rear channels unless a signal source is also connected to the Rear inputs

12. Sub Gain Control

This control adjusts the gain of the sub-amplifier and allows for the correct matching of any signal source from its pre-amplifier output into the Route 66. Adjustments range from .2V (200 mV) to 2V AC.

13. Bass EQ

This bass equalizer circuit boosts sub bass up to +12dB at 45Hz.

14. Optional Low Pass Level Control (LPL)

15. Low Pass Crossover

This four position rotary Low Pass selector controls the frequency range of the subwoofer outputs. The corner frequencies are 50Hz, 75Hz, 125Hz, and 175Hz.

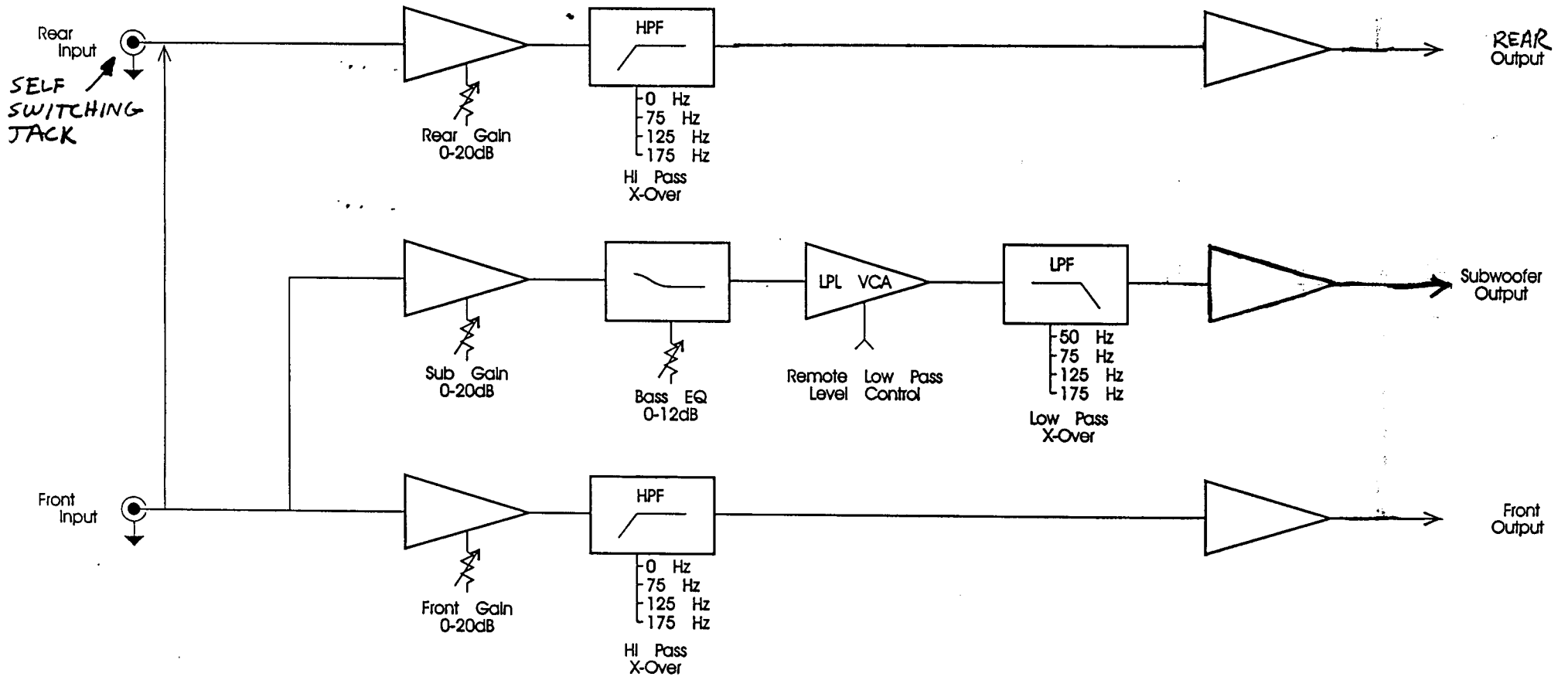
16. Front Gain Control

Allows for the correct matching of any signal source from its pre-amp output into the Route 66. Adjustments range from .2V (200 mV) to 2V AC/Audio.

17. Front Speaker Output

This 24kt Gold Plated barrier connector is designed to accept up to 10 gauge speaker cable. We recommend using PHOENIX GOLD PRO404 Gold plated spade terminals.





ROUTE 66 Block Diagram

ONE Channel Shown FOR CLARITY