

**Lannge®**

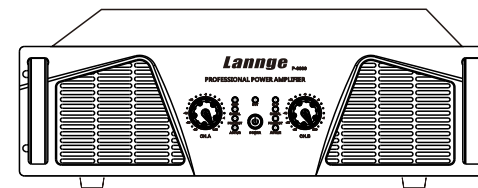
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***Lannge®***

MODEL : P-3800 / P-3122

OPERATION MANUAL



Thank you for purchasing the product, in order to make better use of your product, please read this owner's manual carefully before using.

## CONTENT

Brief Introduction .....	2
Main Features .....	2
Components' Names .....	3
Connecting .....	5
Cautions .....	5-6
Technical Specifications .....	6

## 一、Brief Introduction

Thank you for purchasing the professional amplifier of our company. The transistor amplifier is designed by our professional experienced engineer, not only show the performance advantages of transistor without reservation, but also keep the design style of durability and reliability of traditional amplifier. The product is keeping sells well in the market because of its enough thrust, strong control, high resolving power.

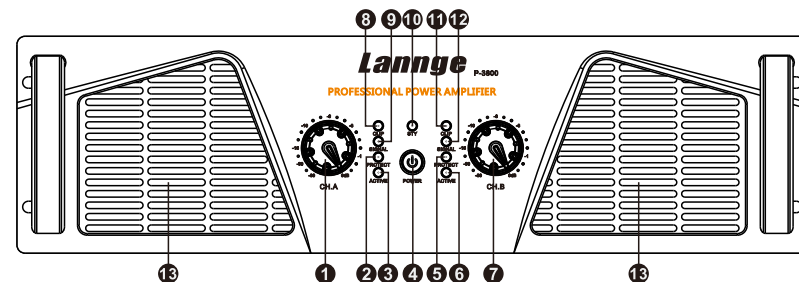
The product is suitable for large stage performances, pubs, large conference rooms, all kinds of performance karaoke room, conference room, multifunctional theater and family entertainment etc. By reducing the sound coming out of the amplifier, whether deduce symphony, folk songs, or DISCO music, it can give you immersive feeling, this product is definitely an expert in the field of pro-audio, wish you will enjoy it.

## 二、Main Features

- Brushed aluminum front panel with unique streamline design.
- Perfect dynamic, comprehensive current limit, overload and chopped protection.
- Intelligent-controlling fan for radiating
- Perfectly combine H technology and topology;
- AI insert and SMT automatic technique for strict control the consistency of the products
- Adopt A class standard steel disc and fine copper high-powered toroidal transformer to achieve driving bass, mellow alto and clear treble
- Adopt original high-powered enthusiast Toshiba audio tube.
- With USA branded twin tube, circuits is optimized to perfection.
- Suitable for large stage performances, KTV rooms, pubs and conference rooms etc.

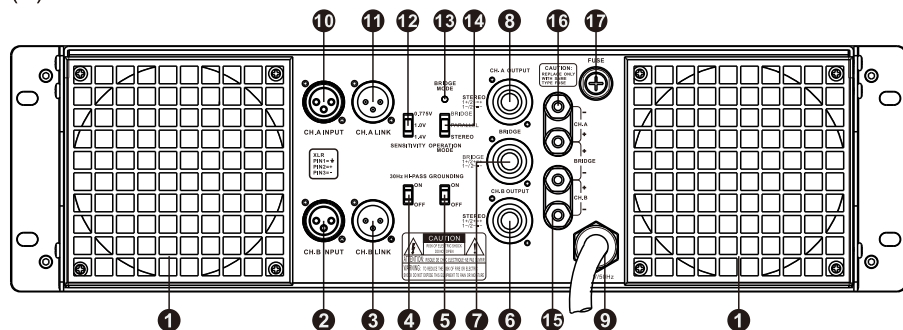
## 三、Component names

### (1).Front panel of P-3800/P-3122



1. CHANNEL A VOLUME CONTROL KNOB
2. CHANNEL A PROTECT LED INDICATOR  
Protection state when it's on.
3. CHANNEL A ACTIVE LED INDICATOR  
This indicator will light up when turn on the amplifier.
4. POWER SWITCH  
ON/OFF switch
5. CHANNEL B PROTECT LED INDICATOR
6. CHANNEL B ACTIVE LED INDICATOR  
The indicator will light up when turn on the amplifier.
7. CHANNEL B VOLUME CONTROL KNOB
8. CHANNEL A CLIP LED INDICATOR  
When this indicator light, the channel A output signal is getting peak and getting clip, please check the Mixer and other equipment's output signal and control output gain.
9. CHANNEL A SIGNAL LED INDICATOR  
Channel A output level, the measure change is depend on output level.
10. STY LED INDICATOR  
Standby indicator, when turn on the amplifier.
11. CHANNEL B CLIP LED INDICATOR  
When this indicator light, the channel B output signal is getting peak and getting clip, please check the Mixer and other equipment's output signal and control output gain.
12. CHANNEL B SIGNAL LED INDICATOR  
Channel B output level, measure change depend on output level.
13. VENTILATION SLOTS  
No obstruction on ventilation slots.

#### (4).REAR PANEL



##### 1. TILATION SLOTS

Cooling ventilation window

##### 2. CH.B INPUT

XLR input: BALANCED/UNBALANCED.

Connect to the peripheral processing equipment.

##### 3. CH.B LINK

Direct socket: parallel with XLR input, provide a same output signal as the input signal to connect to the other equipment.

##### 4. 30Hz HI-PASS

30Hz high-pass filter selection switch: ON/OFF switch. Select 30Hz high-pass filter can filter out 30Hz low frequency make the speaker does not work under the resonant frequency, more effective to protect the speaker.

##### 5. GROUNDING

Grounding ON/OFF switch: the ground connection between power amplifier and power supply. When switch "ON", it can reduce the noise.

##### 6. CH.B OUTPUT

Channel B screw output socket: 1+/2+ connect the positive side of speaker, 1-/2- connect the negative side of speaker.

##### 7. BRIDGE

Bridge screw socket: 1+/2+ connect the positive side of speaker, 1-/2- connect the negative side of speaker.

##### 8. CH.A OUTPUT

Channel A screw output socket: 1+/2+ connect the positive side of speaker, 1-/2- connect the negative side of speaker.

##### 9. POWER SUPPLY

##### 10. CH.A XLR INPUT

##### 11. CH.A XLR LINK

Direct socket: parallel with XLR input, provide a same output signal as the input signal to connect to the other equipment.

##### 12. SENSITIVITY SELECTION SWITCH

Input sensitivity switch for choosing amplifier input sensitivity, 0.775V, 1.0V and 1.4V.

##### 13. BRIDGE MODE

The indicator will light up when switch to bridge mode.

##### 14. OPERATION MODE

Bridge: Signal combination input at channel1, volume control by channel1, output connect the bridge screw socket.

Parallel: signal combination input at channel1, independent volume control and output.

Stereo: two channels completely independent.

##### 15. CH.A

Speaker connects position. The black one is for the negative side of speaker.

The red one is for the positive side of speaker.

##### 16.CH.B

Speaker connects position. The black one is for the negative side of speaker.

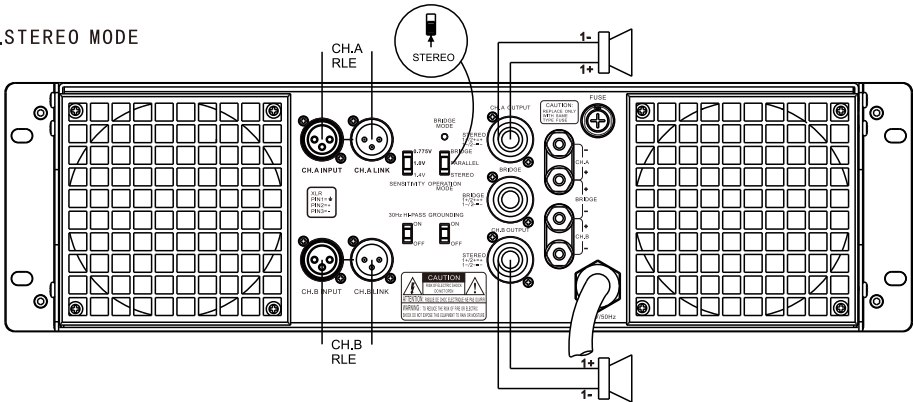
The red one is for the positive side of speaker.

##### 17.FUSE

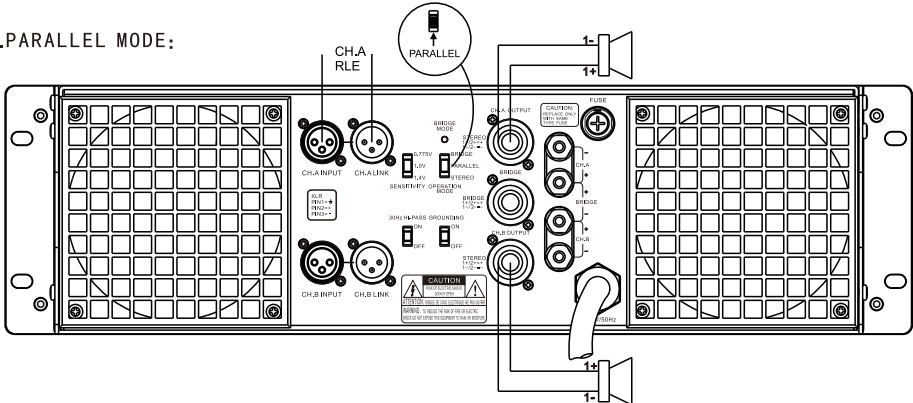
The fuse is for the protection of the system. On standby status if indicator not light when turn on, please check whether the fuse have blew out, after troubleshooting must replace the same specification fuse.

四.OPERATING MODE OF THE AMPLIFIER

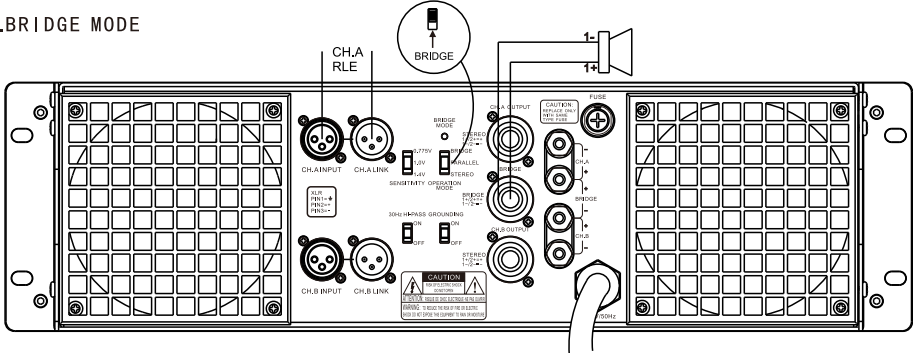
1.STEREO MODE



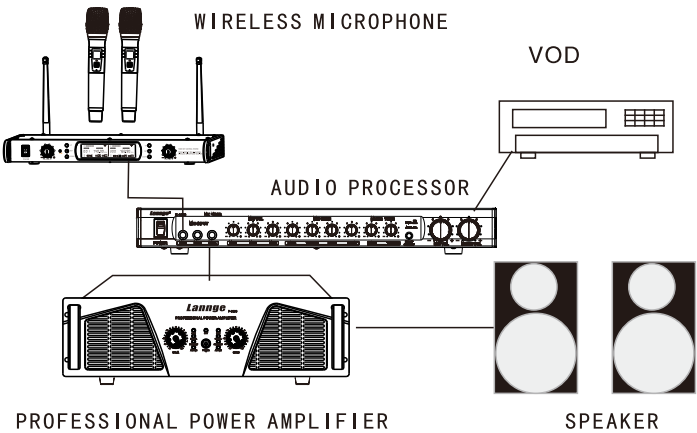
2.PARALLEL MODE:



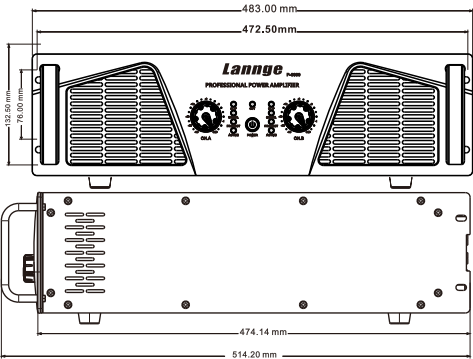
3.BRIDGE MODE



五、CONNECTTING INSTRUCTION






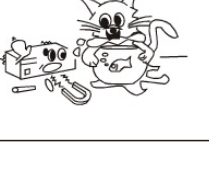
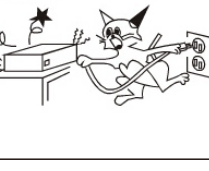

六、PRODUCT INSTALLATION DIMENSIONS



七、TECHNICAL SPECIFICATIONS

	P-3800	P-3122
RMS 8 Ω/STEREO:	800W+800W	1200W+1200W
20Hz~20KHz: 4 Ω/STEREO:	1200W+1200W	1800W+1800W
THD+N 0.1% 8 Ω/BRIDGE:	2400W	3600W
Frequency Response ref 1k20Hz~20KHz:	± 0.2dB	± 0.2dB
THD+N :	< 0.1%	< 0.1%
SNR:	100dB	102dB
Damping Factor :	>200	>200
SR :	>20V/ μ s	>20V/ μ s
Gain RL 8 Ω :	40dB	42dB
Input Impedance :	balance 20K / unbalance 10K	balance 20K / unbalance 10K
Output Circuitry:	2-tier Class H	3-tier Class H
AC Power :	AC220V / 50Hz ± 10%	
Amplifier and Load Protection :	Soft boot,DC,short circuit,over load,overheat,Clipping distortion	
Input CONNECTORS :	Female XLR Type/ Male XLR Type	
Output CONNECTORS:	NL4 Speakon socket, Binding post	
Controls and LEDs—Front Panel:	Peak clipping, Signal, A&B Volume potentiometers, DC, Protection indicator	
Controls and LEDs—Rear Panel:	Stereo, Splice, Bridging option switch, Bridging indicator, Sensitivity option switch, Grounding switch, 30Hz HI-PASS switch,	
Cooling mode:	Stepless automatic transmission cooling fan.	

The company reserves the right to improve the product without prior notice. Pictures in this manual are for reference only, please take actual product as standard.

	<p>Inside the triangle, the flash is to warn user that the equipment has danger voltage inside, please ensure the equipment connect the ground wire and operate carefully during using.</p> <p>The exclamation mark is important operation, to remind user to completely follow this manual when using the equipment.</p>
	<p>The equipment uses high voltage component. In order to avoid electric shock, please do not open it to check or modify. If the equipment performance degrades or burned due to the user's modification or misuse, it is not covered by product quality warranty.</p> <p>Please keep the environment be ventilated, the vent should not be covered by sundries such as newspapers, tablecloths or curtains. If machine cabinet installation, please keep the distance of at least 10 cm between each vent.</p>
	<p>When plugging in the power cord or unplugging, please do not touch metal contacts. Do not touch power line when your hand is wet. Do not put the power line under the equipment and furniture. Do not bind the power line to others. Keep the power line away from the place where people often walk.</p>
	<p>If any noise or peculiar smell found when using the machine, please turn the power off immediately and unplug the power line. Do not open it. Please contact AGENCY or OMC for maintenance. When the maintainer maintains the product, internal electronic components of the products can only use the ones of same specifications for replacement.</p>
	<p>Do not put the metal objects such as iron nail or coins into the product from the vent or other opening, which will cause electric shock and fire. Please do not expose the machine to the rain or damp places. Do not put the vase or fish bowl etc on it. If any water or a foreign matter accidentally gets into the machine, please contact OMC or AGENCY for maintenance.</p>
	<p>To prevent fire accident, please turn off the power and unplug the power line when not using the equipment for long time.</p>