PA-5120P1
PA-5120P2

Professional Public Address Amplifier
with Zone Control System

Operation Manual

http://www.bxb.tw

Feature

- Build in 4 sets of auxiliary input control circuit.
- Build in external remote power control function (order option).
- Build in equalizer input & output terminals.
- Build in 4 sets of independent microphone input control circuit.
- Build in microphone priority function on microphone inputs 1 & 2.
- Build in 5 zone paging & 1 all call control function.
- Build in overload, overheat & shortage protection circuits.

CE R35031

Points for attention

◈ Ensure the input signal wires to be distant from output power cable, both getting too close can cause interference to amplifier.

◈ Please follow the diagram instruction of cable connection for installation to bring amplifier's capability into full play & extend usage life of amplifier.

✤ Points for attention of high voltage output：

If the distance between amplifier & speaker is far away, please use 100V line high voltage output to transfer audio signal for avoiding the signal consumption while extending cable causing volume reduce.
All speakers require 100V line transformer for matching the impedance & do not connect 100V line directly to speaker.

✤ Points for attention of low impedance output：

When connect speaker to amplifier, please follow diagram instruction of speaker low impedance connection for wiring.

✤ Points for attention of battery input：

When connect external battery to amplifier, ensure the battery voltage need to be 24V & do not reverse the connection of positive & negative poles.

◈ Do not block the vent of amplifier located at the left side. If the vent is blocked will easily caused overheat to the amplifier.

◈ Please keep a distance to the amplifier's rear vent for extractor fan , it is helpful to smoothly circulate the amplifier's internal hot air.

Product Warranty

◈ **TO ensure your interests , please read the following service Warranty:**

1.One year from date of purchase, under normal use conditions,if failure occurs, the Company’s guarantee of free maintenance.

2.More than one year from date of purchase or more, while those who could produce a certificate, according to the company’s maintenance regulations maintenance work.

3.This guarantee if untrue or or deletion known documented cases should be considered invalid.

4.Although during the warranty period, if the following conditions without free maintenance

- Those who did not produce a certificate.
- Using the wrong, or improper repair, modification and man-made damage.
- Because natural disaster, moving, transportation, shock or abnormal use of the supply voltage and the damage caused by failure.

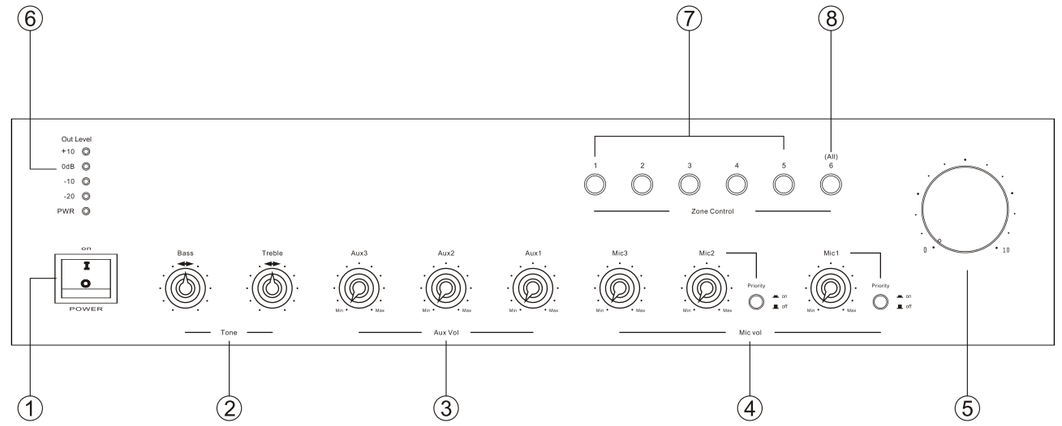
5.Consumable parts without warranty

Model		Date	
Name		Tel	
Address			
Stamp			

Specifications

Supply Source	AC220V/50Hz DC24V	
Frequency Response	MIC	77Hz ~ 19KHz ±3dB
	AUX	74Hz ~ 19KHz ±3dB
Input Sensitivity	MIC -64dB ±3dB	AUX -30dB ±3dB
Tone Control	100Hz -12dB ~ +12dB	10KHz -13dB ~ +11dB
S/N Ratio	-85dB ±3dB	
T.H.D	<0.6%	
Output (100V)	PA-5120P2	248W/RMS
	PA-5120P1	145W/RMS
Power Consumption	PA-5120P2	497VA
	PA-5120P1	297VA
Weight	PA-5120P2	13.0kg
	PA-5120P1	10.1kg
Dimension	420Wx379Dx96H mm	

Front Panel Description



① Power Switch.

② Treble & Bass Tone Control.

③ Auxiliary 1 ~ 3 Volume Control.

④ Microphone 1 ~ 3 Volume Control,
Mic1 & 2 build in with priority circuits.

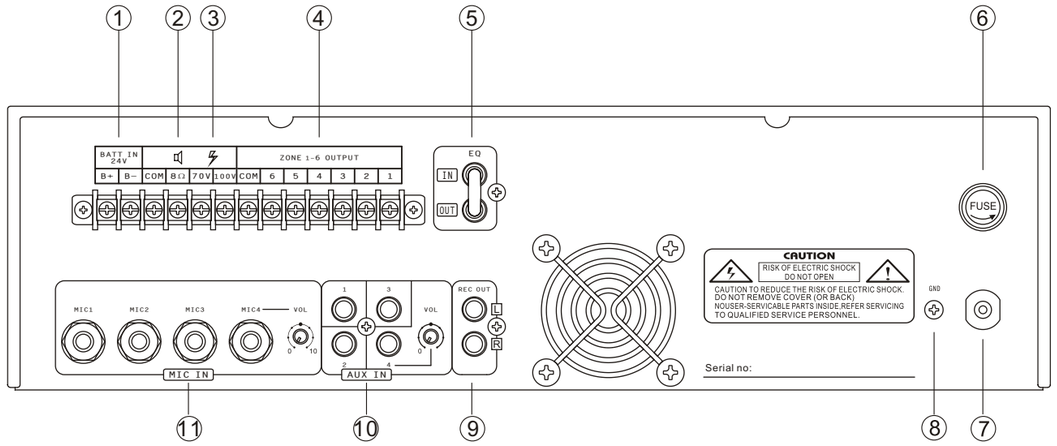
⑤ Master Volume Control.

⑥ Power on/off & output level indictor led.

⑦ Zone Control buttons (Zone 1 ~ 5),
when you press zone 1 ~ 5 buttons, the rear panel zone 1 ~ 5 terminals will output the signal individually.

⑧ Zone Control 6 (All Call button),
when you press All Call button, no matter zone 1 ~ 5 buttons whither are pressed & indicator led are lighten will output the signal all together.

Back Panel Description



① External 24V DC power (Battery) input.

② 8Ω Low Impedance Output.

③ 70V/100V High Voltage Output.

④ Zone Output (Zone 1 ~ 5 & All Call).

⑤ Equalizer Input & Output.

⑥ Fuse.

⑦ External AC power input.

⑧ Ground Connection.

⑨ Record output.

⑩ Auxiliary 1 ~ 4 inputs,

The auxiliary input 4's volume control is located at rear panel.

The rest of other auxiliary volume are located at front panel.

⑪ Microphone 1 ~ 4 inputs,

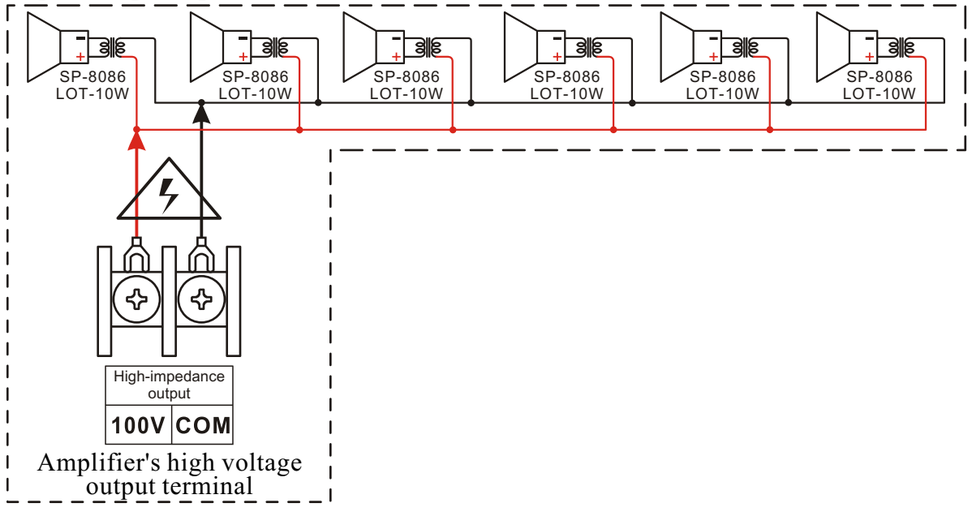
Microphone 1 input, when both front & rear panels' microphone 1 inputs are all connected. The rear panel's input will be shutting down automatically.

The microphone input 4's volume control is located at rear panel.

The rest of other microphone volume are located at front panel.

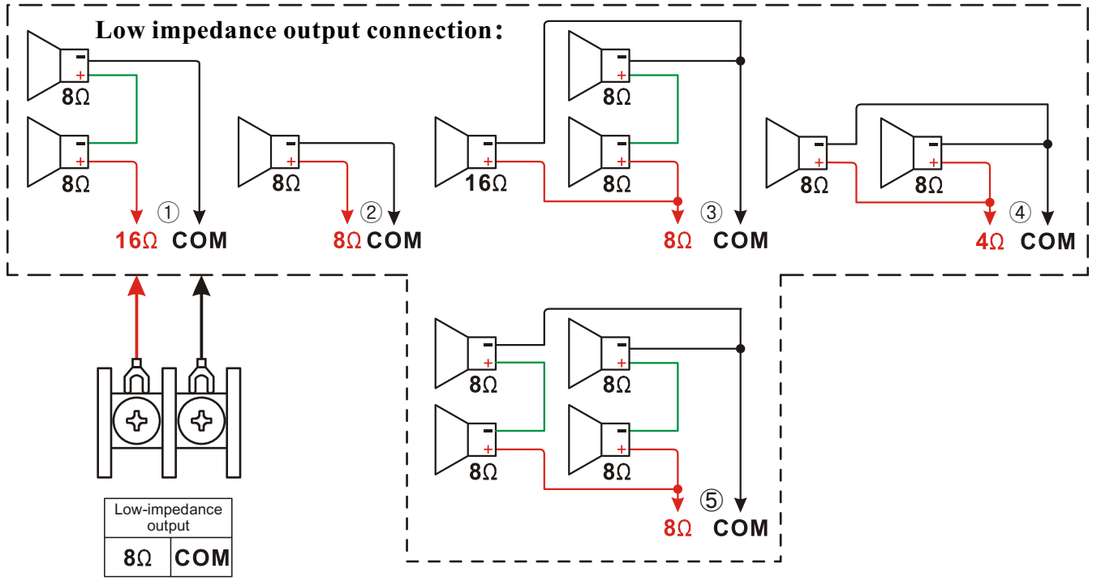
Instruction diagram for connection

High voltage output connection:

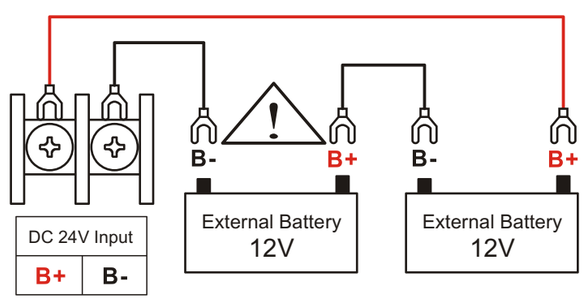


Amplifier's high voltage output terminal

Low impedance output connection:



Low impedance output terminal



External battery input terminal