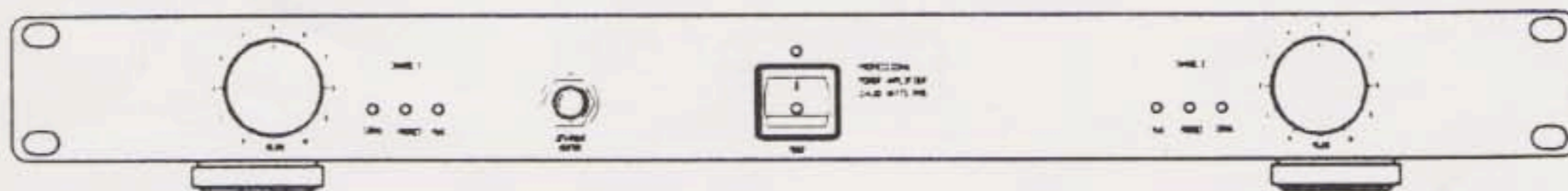


PA-2120 MK II

PROFESSIONAL
STEREO
POWER-AMPLIFIER

OWNER'S MANUAL



Precautions

WARNINGS

1. All operating instructions should be read before using this equipment.
2. To reduce risk of electric shock, do not remove cover or back. There are no user serviceable parts inside. Refer servicing to a qualified service technician.
3. Do not expose this unit to direct sunlight or a heat source such as a radiator, stove or other heat producing appliance.
4. This unit should be cleaned with a damp cloth only. Avoid solvents or other cleaning detergents.
5. When moving this equipment, it should be placed in its original carton and packing or a suitable road case. This will reduce the risk of damage in transit.

If 'Hum' or 'Buzz' occurs when connecting different inputs, then this is often caused by 'ground or earth loops'. Inside, you can disconnect JP8(CH1) and JP7 (CH2) to break this ground loop. Please contact a qualified technician.

Low cut = high pass filter

Inside the amplifier, a 100 Hz high pass filter can be activated per channel by removing the jumpers J29 for channel 1, and J2 for channel 2. Please contact a qualified technician.

100Hz is used when you connect small speakers which are not able to reproduce low frequencies.

Cooling/protection systems

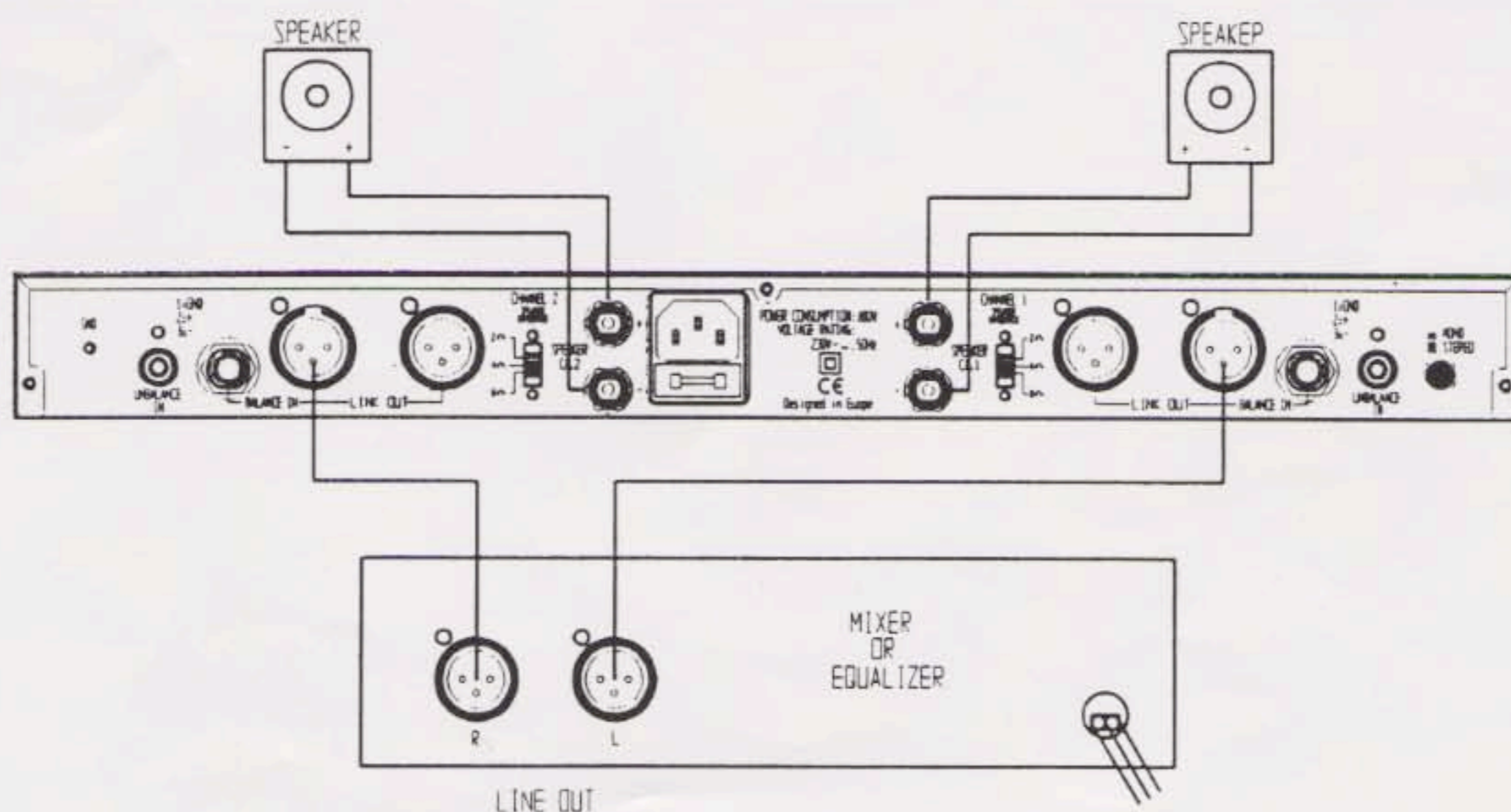
This power amplifier is designed for dynamic high quality sound reproduction. Due to its low impedance driving performance, and in combination with 16 ohm loudspeakers, it is the ideal solution for well-dispersed 'background-sound' systems (many speakers at moderate sound level). This power amplifier is not designed for continuous high power applications.

Keep the amplifier in a cool 'free-air' environment, especially the side heatsinks. When the amplifier is driven into too high levels, then the 'overtemperature' protection may be activated. The 'protect' led will go from green into red. It will reset automatically if the temperature is safe again.

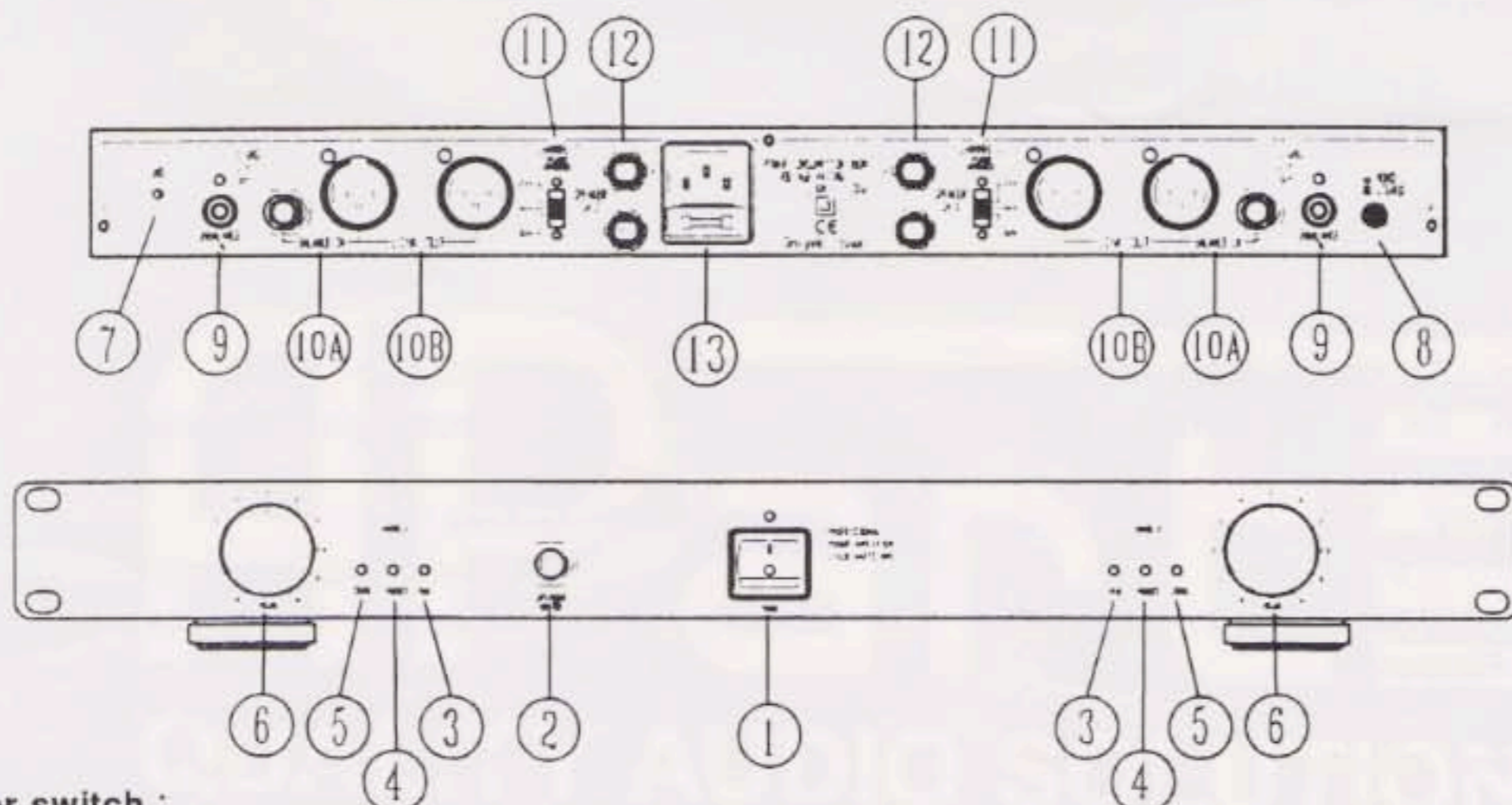
If you don't lower the levels and just keep on driving into high levels, then the temperature protection of the transformer may be activated. Then all LED's go out, and you have to wait 5-10 minutes before it will be rest automatically.

It is very important to set the impedance switch at the rear panel according the connected speaker-impedance.

CONNECTION



PA-2120MK II features & controls



1. Power switch :

To turn the unit ON or OFF, press the upper or lower part of this button. The LED in the switch will light to indicate that the unit is ON.

CAUTION : Always turn on your power amplifier at latest, after all your other connected equipment, and always turn off your power amplifier before your other connected equipment.

2. Monitor jack

This 1/4" TRS phone jack allows monitoring of the amplifier with stereo headphones.

3. Peak LED/limiter L & R

These red LEDs illuminate if the amplifier is within 3dB of clipping. Occasional blinking of this LED is acceptable, but if it remains «on» or more than intermittently, then you should turn down either the amplifier level control or reduce the output level of the preceding component to avoid audible distortion. A built-in limiter will prevent excessive RMS clipping.

If you want to bypass the limiter function, then disconnect JP5(left channel) and JP1(right channel) inside. Please contact a qualified technician.

4. Protection Led:

The Protection Led illuminates RED when the amplifier is overheated or when a shorted load or DC is detected on the amplifier output. The amplifier shall reset itself when the problem is solved.

5. Signal LED indicator L & R

These LEDs will light up green when the input detects audio signal.

6. Level controls:

These control the level of signal coming into each channel. Turn these controls counterclockwise if the peak LEDs illuminate steadily (indicating an overloaded input signal).

7. Ground:

For safety, and to help eliminate ground loop hum, connect a properly ground ground wire here.

8. Mono/Stereo switch

When this button is pushed in, then both L & R are mixed into Mono. The volume controls do still operate independently.

9. Unbalanced input jacks(RCA):

10A.Balanced input connectors(1/4"TRS & XLR)

Ring/Pin 3 = - Tip/Pin 2 = + Sleeve/Pin 1 = GND

10B.Linkout

11.Impedance switch:

For each channel, set the impedance switch at the rear panel according the connected speaker-impedance. If not set correctly, overheating may occur, as well as blown speakers due to unmatched limiter settings. Please contact a qualified technician.

12.Output connectors (Binding Posts)

The speaker for each channel output can be connected to the screw terminal binding posts (banana jacks).

13.Fuse holder & power cord connector:

This fuse holder contains an AC primary fuse. When this fuse blows, replace it with the same type fuse, size and power rating (see SPECIFICATIONS). If it continuously blows, stop replacing the fuse and refer servicing to qualified personnel.

CAUTION:After checking the AC supply voltage, be sure that the correct fuse is in the fuse holder.

The cord connector is used to connect the AC power source to your power amplifier.

CAUTION:DO NOT REMOVE THE CENTER GROUNDING PIN.

General Specifications :

Out power(Rated)/channel

2 Ohm 2× 120W× 180W MAX
4 Ohm 2× 120W× 160W MAX
8 Ohm 2× 120W× 120W MAX

Input Sensitivity

2/4/8 Ohm 0.775Vrms

Frequency Response

15 Hz 30KHz

Total harmonic distortion

<0.03%

Damping Factor (4 Ohms) >400

Slew Rate > 10v/us

Input RCA-balance

Impedance 20KΩ , 0 dB

Speaker Output

Binding post terminals

Protections

Short Circuit &

Overload Temperature

Power Consumption

Watts 500VA Max.

Fuse : 3.15A Slow

Dimensions (W*H*D)

481× 44× 300mm

Weight Net : 4.5kgs

Due to the built-in limiter, some values may differ from the specs listed above.

Due to continuous research and developments, the product specifications may change without prior notice at any time.