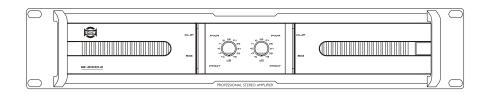


SWITCHING POWER PROFESSIONAL AMPLIFIER

User's Manual





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TECHNICAL SPECIFICATIONS

Power Specifications(tolerance +/-5%)		B-2000.2
Stereo Mode (Both Channels Drive)	2 ohms(EIAJ)	3000W*2
	4 ohms(RMS)	2000W*2
	8 ohms(RMS)	1200W*2
Electrical Specification		
Input Sensitivity (Limit Off)		0.9-1.1V(0+/-1dBv)
Input Impedance		20k ohms balanced or 10k Ohms unbalanced
Frequency Response (at -10dB Rated Output Power 8Ω)		20Hz ~ 20KHz(+0/-1dB)
Voltage Gain		40+/-0.5dB
THD+N (Ref. IK I/8Rated Power,A-Weighted)		<0.1%
S/N rate (Ref. Rated Power, A-Weighted)		>100dB
Crosstalk (Below Rated Power)		>70dB
Damping Factor(1K 8 ohms)		>200
Power/Output Circuitry		Switching Power Class D
General Specifications		
Protections	Full short circuit, open circuit, thermal, ultrasonic and RF protection stable into reactive or mismatched loads, turn ON/OFF, muting, tried crowbar.	
Controls	Front: AC switch(soft-start), Input level control for each channel Rear: stereo/ parallel/ selector.	
Indicators	SIGNAL: 2 green LED CLIP: 4 red LED POWER: 2 green LED PROTECTION: 2 red LED	
Connectors	INPUT :Balanced XLR-TRS combo input jacks OUTPUT:speak-on jacks	
Power Supply	110-120V or 220-240V~50/60Hz	
Dimensions(mm) 483(W)*360(D)*88(8(H)
Weight	5kg	

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IMPORTANT!

Please read this manual carefully before operating this unit for the first time.

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SAFETY RELATED SYMBOLS



The symbol is used to indicate that some hazardous live terminals are involved within this apparatus, even under the normal operating conditions.

The symbol is used in the service documentation to indicate that specific component shall be only replaced by the component specified in that Documentation for safety reasons.

Protective grounding terminal.

Alternating current /voltage.

4 Hazardous live terminal .

ON: Denotes the apparatus turns on.

OFF: Denotes the apparatus turns off, because of using the single pole switch, be sure to unplug the AC power to prevent any electric shock before you proceed your service.

WARNING: Describes precautions that should be observed to prevent the danger of injury or death to the user.



Disposing of this product should not be placed in municipal waste and should be separate collection.

CAUTION: Describes precautions that should be observed to prevent danger of the apparatus.

WARNING

• Power Supply

Ensure the source voltage matches the voltage of the power supply before turning ON the apparatus.

Unplug this apparatus during lightning storms or when unused for long periods of time.

• External Connection

The external wiring connected to the output hazardous live terminals requires installation by an instructed person, or the use of readymade leads or cords.

• Do not Remove any Cover

There are maybe some areas with high voltages inside, to reduce the risk of electric shock, do not remove any cover if the power supply is connected.

The cover should be removed by the qualified personnel only.

No user serviceable parts inside.

• Fuse

To prevent a fire, make sure to use fuses with specified standard (current, voltage, type). Do not use a different fuse or short circuit the fuse holder.

Before replacing the fuse, turn OFF the apparatus and disconnected the power source.

• Protective Grounding

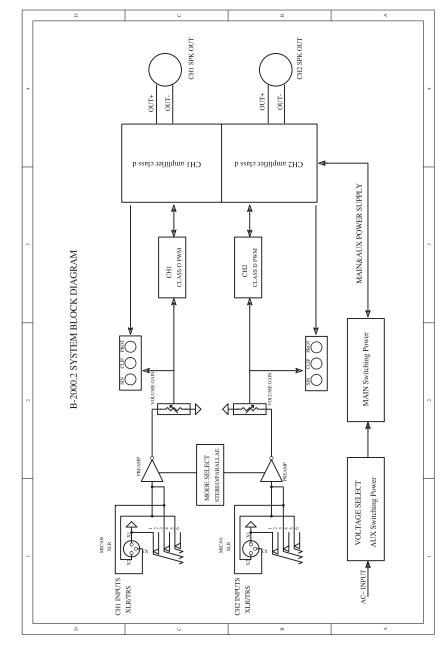
Make sure to connect the protective grounding to prevent any electric shock before turning ON the apparatus.

Never cut off the internal or external protective grounding wire or disconnect the wiring of protective grounding terminal.

• Operating Conditions

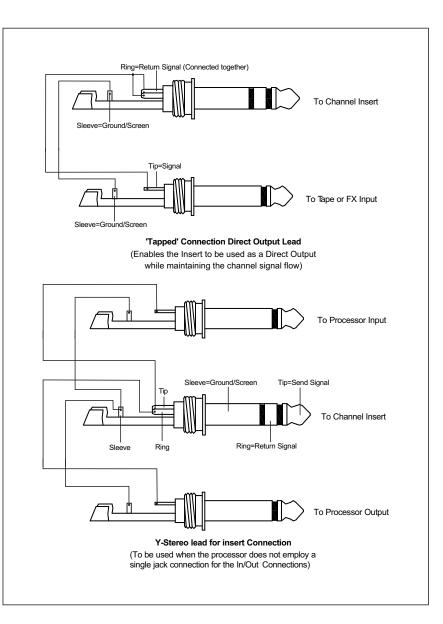
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This apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on this apparatus.



BLOCK DIAGRAM





To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.

Do not use this apparatus near water. Install in accordance with the manufacture-r's instructions. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat. Do not block any ventilation openings.

No naked flame sources, such as lighted candles, should be placed on the apparatus.

IMPORTANT SAFETY INSTRUCTIONS

- Read these instructions.
- Follow all instructions.
- Keep these instructions.
- Heed all warnings.
- Only use attachments/accessories specified by the manufacturer.
- Power Cord and Plug

Do not defeat the safety purpose of the polarized or grounding type plug.

A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

Cleaning

When the apparatus needs a cleaning, you can blow off dust from the apparatus with

a blower or clean with rag etc.

Don't use solvents such as benzol, alcohol, or other fluids with very strong volatility and flammability for cleaning the apparatus body. Clean only with dry cloth.

• Servicing

Refer all servicing to qualified personnel. To reduce the risk of electric shock, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so.

Servicing is required when the apparatus has been damaged in any way, such as power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

The mains plug is used as the disconnect device, the disconnect device shall remain readily operable.

INTRODUCTION

B-2000.2 switching power professional Amplifier is designed for professional use on stage. The high-quality components and the carefully designed circuits ensure excellent audio performance and an extremely linear frequency response. In fact, the switching technology offers, together with an increased efficiency and a better control of heat dissipation than conventional power supply systems, a drastic reduction of dimensions and weight, for easier transportation and installation.

This Amplifier guarantees total reliability and a trouble-free use even in the most demanding conditions. We believe the B-2000.2 will provide a perfect performance, what you get is unprecedented performance at an incredibly attractive price.

Features:

*High current switching power allowing high power output with low noise and low distortion *Substantial protection circuitry like thermal, short circuit, output DC offset, power on/off muting and Therefore protection

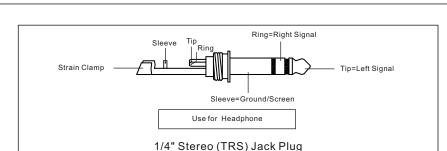
*Built-in limiter

*Balanced XLR-TRS combo input jack

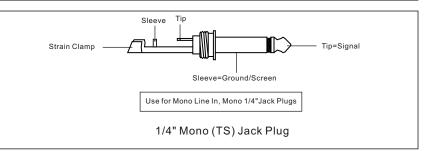
*Speakon output connectors

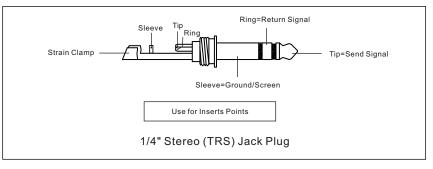
*front mounted gain controls for easy access

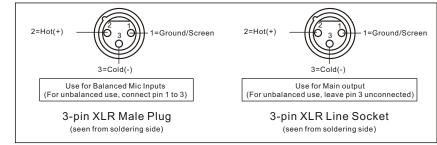
*Signal, Clip protect, Parallel mode, and Power LED indicators to monitor performance.



WIRING CONNECTIONS







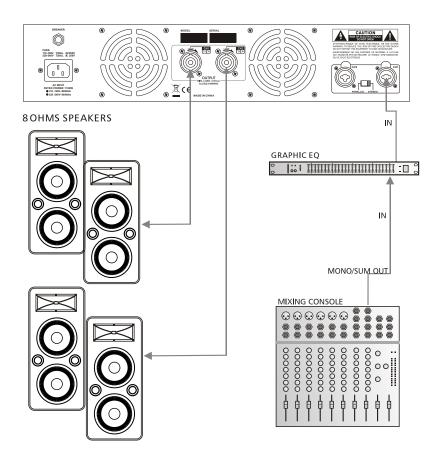
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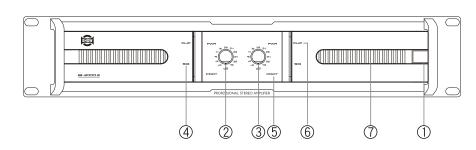
CONTROL ELEMENTS

Parallel Operation

If many speakers must be driven from the same signal, you can operate on PARALLEL way: input from channel A, output the same signal from channel A and B which can drive solely two 8 ohms speakers. The signal smart switch must be set to parallel position.

SWITCH SET TO PARALLEL





1 Power Switch

FRONT PANEL

It switches ON/OFF the unit main power(soft start)

2 Level Control

These volume controls allow you to adjust the volume level.

③ Power LED

The Power LED lights up when the amplifier is powered ON.

(4) Signal LED

These green LEDs light up when the respective channel's output signal pass through.

5 Protection LED

In normal operation, the Led will not illume; If the Led is red, it means the unit is in heat protection, no sound is output. The speaker system is actually disconnected from the amplifier outputs when this LED is red, the temperature must be lowered by better ventilation and decrease the signal level etc. if the problem is corrected, the protection systems deactivate automatically, and normal amplifier operation is resumed.

6 Clip LED

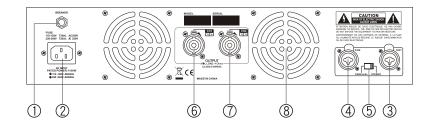
This red LED lights up when the input signal is too strong. it is time to reduce in put level until clip LED turning off.

7 Air Intake Vents

B-2000.2 employ a variable speed internal cooling fan to intake the air through front grill to keep it running cool even under extreme operating conditions. Please keep these vents clear and free from obstruction at all times to insure proper cooling.

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REAR PANEL



() Breaker

This switch works as fuse for protecting the unit from damage. When the unit is overloaded or the temperature inside the unit is too high, this pushing-button will spring up and break the power sup ply. The power supply will be restored with pushing this switch down again.

2 AC Input

Use it to connect your B-2000.2 to the supplied AC cord.

(3) Channel A XLR/TRS Input

This XLR jack will accept any balanced or unbalanced low impedance line level source by means of a three-pin XLR plug. The wiring for the plug is as follows: Pin I = Ground, Pin2 = SignaI +, Pin3 = SignaI.

(4) Channel B XLR/TRS Input

This XLR jack will accept any balanced or unbalanced low impedance line level source by means of a three-pin XLR plug.

(5) Signal Smart Switch

Use this switch to select the operating mode of the amplifier. The switch functions as follows: STEREO: input A to CH A amp, input B to CH B amp;

PARALLEL: input from channel A/B, both CHA and CHB will output signal.

6 Channel A Speakon NL-4R

Connect the amplifier to your speakers using these speakon jacks.

(7) Channel B Speakon NL-4R

Connect the amplifier to your speakers using these speakon jacks.

8 Exhaust Vents

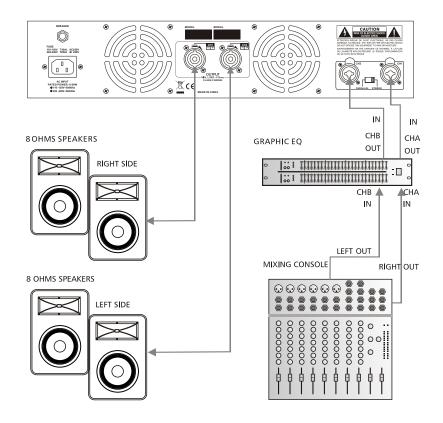
Air is drawn from front grilles, flown through the unit and heat sink, and then exhausted via the rear vents. Do not block or impede the air flow through these vents and keep the vent areas free of foreign materials.

APPLICATIONS

Stereo Operation

B-2000.2 can be used in the stereo mode as two separate B-2000.2 watt units, each capable of driving loads down to 4 ohms. Each channel operates independently and has its own input connectors, sensitivity level controls, signal indicator LEDs, automatic limiter, fault protection circuitry, power amp, and speaker outputs. In the stereo mode, the signal smart switch must be set to the stereo position. One application of the stereo mode uses one channel of the amplifier for the left house speakers and the other channel for the right. The mixing board channels can be panned left or right according to the position of the instruments on the stage. This approach provides a more accurate reproduction of the live performance.

SWITCH SET TO STEREO



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