

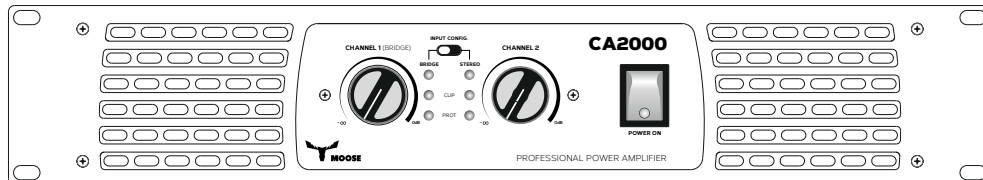
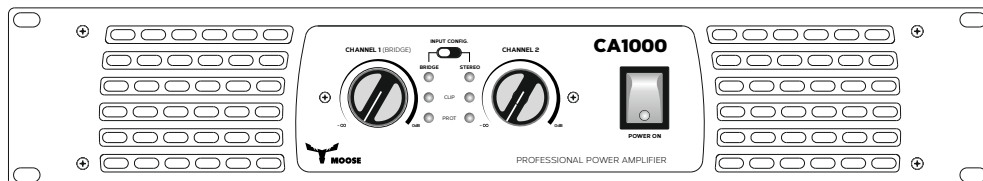
MOOSE

www.mooseaudio.com

PROUDLY DEVELOPED AND
MANUFACTURED IN PORTUGAL

CA1000 & CA2000

Professional power amplifiers



USER'S MANUAL

Introduction

Dear customer,

Thank for choosing MOOSE branded products!

MOOSE is a brand of professional audio & lighting products, proudly developed and manufactured in PORTUGAL.

In order to operate this product in a safe and reliable manner, please follow the instructions in this booklet and before operating the equipment read the instructions carefully and please note the technical information.

Our products undergo very rigorous testing under strict conditions and they are monitored continuously during the manufacturing process. In order to guarantee the product function and safety, the original parts of the manufacturer's design must be used. If any parts other than those of the manufacturer are used, or the product is modified in any way, the user forfeits all warranty rights to claim.

Caution

1. Before connecting the equipment to the power outlet, first verify that the mains voltage and frequency match the values specified on the equipment.
2. If the power cord of the device is equipped with an earthing contact, then it must be connected to an outlet with a protective ground. Never deactivate the protective ground of a power cord.
3. Unplug the power cord and power adapter from the power outlet if there is a risk of a lightning strike or before extended periods of disuse.
4. Replace fuses only with fuses of the same type and rating. If a fuse blows repeatedly, please contact an authorised service company.
5. Do not open or modify this equipment.
6. After connecting the equipment, check all cables in order to prevent damage or accidents, e.g., due to tripping hazards.
7. Do not turn on the Amplifier ON before checking that all volumes to zero.
8. Please refer all servicing to qualified personnel only if the device is damaged, exposed to liquid/rain or if it does not operate normally.
9. Please, do not expose to any kind of heat such as ovens, radiators, or any other devices (incl. amplifiers). Please check for enough distance between amplifiers and walls, racks, etc. to prevent overheating.

IMPORTANT: Never remove the cover, because otherwise there may be a risk of electric shock. There are no user serviceable parts inside. Have repairs carried out only by qualified service personnel.



The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electrical shock.



The exclamation mark within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance instructions.



To prevent electrical shock do not remove the cover. No user serviceable parts inside. Refer service to qualified personnel only.

The amplifier is marked with this instruction so please proceed accordingly in order to avoid any hazard.

Manufacturers Declaration

PROPER DISPOSAL OF THIS PRODUCT

(Valid in the European Union and other European countries with waste separation)



This symbol on the product, or the documents accompanying the product, indicates that this appliance may not be treated as household waste. This is to avoid environmental damage or personal injury due to uncontrolled waste disposal. Please dispose of this product separately from other waste and have it recycled to promote sustainable economic activity.

Household users should contact either the retailer where they purchased this product, or their local government office, for details on where and how they can recycle this item in an environmentally friendly manner.

Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes for disposal .

ENVIRONMENTAL PROTECTION AND ENERGY CONSERVATION

Energy conservation is an active contribution to environmental protection. Please turn off all unneeded electrical devices. To prevent unneeded devices from consuming power in standby mode, disconnect the mains plug.

EC DECLARATION OF CONFORMITY

The equipment marketed by MOOSE complies (where applicable) with the essential requirements and other relevant specifications of Directives 1999/5/EC (R&TTE), 2004/108/EC (EMC) und 2006/95/EC (LVD). Additional information can be requested to info@profactor.pt.

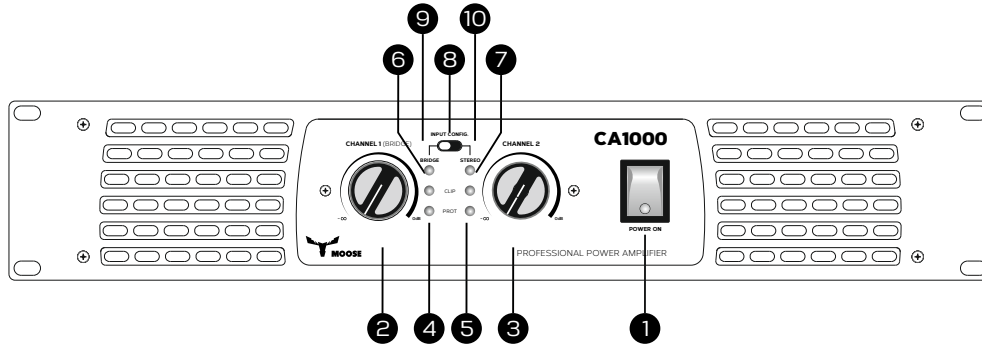


PROUDLY DEVELOPED AND MANUFACTURED IN PORTUGAL

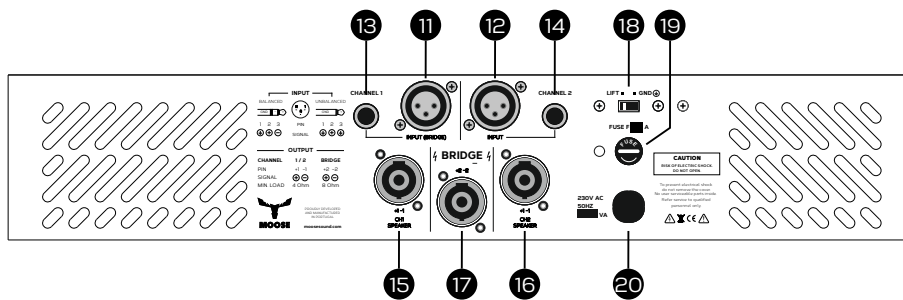
Connections and Controls

Please refer to the following scheme and instructions:

FRONT PANEL:



REAR PANEL:

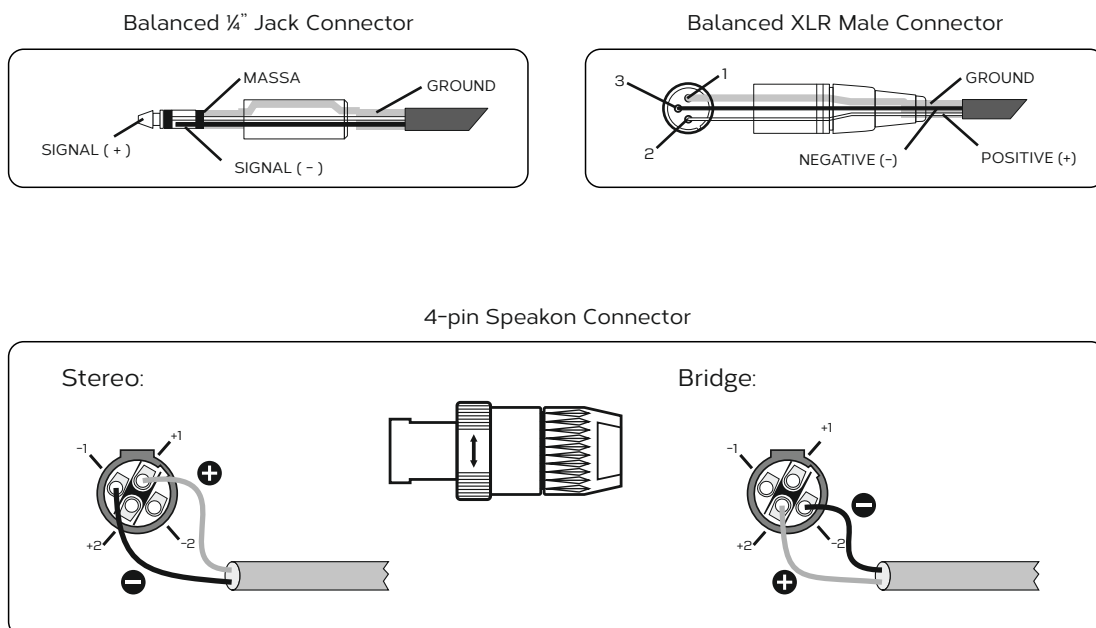


- 1. POWER SWITCH:** Illuminated on/off switch. Before switching on the system, always adjust the volume to zero.
- 2. CHANNEL 1:** Gain control for Ch. 1. Turn clockwise to increase gain and counter clockwise to decrease gain.
- 3. CHANNEL 2:** Gain control for Ch. 2. Turn clockwise to increase gain and counter clockwise to decrease gain.
- 4. CH. 1 CLIP:** This LED will light dimly and increase in brilliance as clipping becomes more severe, staying on until clipping ceases;
- 5. CH. 2 CLIP:** This LED will light dimly and increase in brilliance as clipping becomes more severe, staying on until clipping ceases;
- 6. CH. 1 PROTECT:** When a problem occurs that causes a channel to go into a Protection Mode, this Led lights and stays on until the problem is solved;
- 7. CH. 2 PROTECT:** When a problem occurs that causes a channel to go into a Protection Mode, this Led lights and stays on until the problem is solved;
- 8. BRIDGE/STEREO:** Selector used to choose between STEREO and BRIDGE Operation Mode. In STEREO mode, each channel within the pair remains independent, and each may be used for a different signal. In BRIDGE mode, the setting combines both channels of a pair into a single channel with twice the output voltage. Use only the input and gain control channel 1. Set the channel 2 gain control at minimum.
- 9. STEREO:** This LED lights up when the Amplifier is operating in Stereo mode;
- 10. BRIDGE:** This LED lights up when the Amplifier is operating in Bridge mode;

Connections and Controls

- 11. CHANNEL 1 INPUT:** Channel 1 signal input in 3-pin XLR. This is the input to be used if the amplifier is to be used in BRIDGE mode.
- 12. CHANNEL 2 INPUT:** Channel 2 signal input in 3-pin XLR.
- 13. CHANNEL 1 INPUT:** Channel 1 signal input in Jack ¼". This is the input to be used if the amplifier is to be used in BRIDGE mode.
- 14. CHANNEL 2 INPUT:** Channel 2 signal input in Jack ¼".
- 15. CHANNEL 1 SPEAKER:** Channel 1 Speakon loudspeaker connectors. The Speakon connector is designed specially for highpower speaker connections.
- 16. CHANNEL 2 SPEAKER:** Channel 2 Speakon loudspeaker connectors. The Speakon connector is designed specially for highpower speaker connections.
- 17. BRIDGE:** Speakon loudspeaker connector to be used if the amplifier is set to be operating in BRIDGE mode. Please refer to the pinout printed on the rear panel of the amplifier.
- 18. SIGNAL GROUND LIFT/GROUND:** Signal ground lift barrier strip. Ground lift means breaking a connection between chassis earth and electrical earth. Use this feature only when 50Hz hum is existing from loudspeakers.
- 19. FUSE:** Power fuse. Replace the fuse only with a fuse of the same type and rating. If the fuse blows repeatedly, please contact an authorised service company.
- 20. MAINS SUPPLY:** Power cable AC 230V - 50~60Hz.

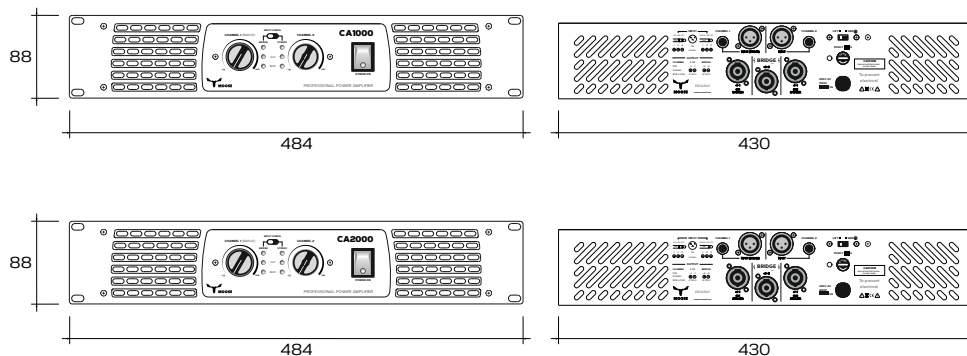
XLR-type, JACK-type and SPEAKON-type connector pin-assignment:



Technical specifications

MODEL	CA1000	CA2000
TYPE	Professional power amplifier	Professional power amplifier
NO. OF CHANNELS	2	2
RMS POWER @ 8Ω, 1kHz, 0.1% T.H.D.	2x 300W	2x 750W
RMS POWER @ 4Ω, 1kHz, 0.1% T.H.D.	2x 500W	2x 1000W
RMS POWER @ BRIDGE, 8Ω	1000W	2000W
FREQUENCY RANGE	20Hz - 20kHz	20Hz - 20kHz
T.H.D. (20Hz - 20kHz)	< 0.1% @ 1kHz	< 0.1% @ 1kHz
S/N RATIO	-100dB	-103dB
GAIN	750mV	750mV
INPUT SENSITIVITY	22kΩ / 20KΩ	22kΩ / 20KΩ
CONTROLS	Main switch (on/off), 2x volume/gain control Bridge/stereo mode selector, ground/lift selector	
INDICATORS	Power on: green, Signal: yellow, Clip/protect: Red	
INPUTS	Balanced signal inputs	Balanced signal inputs
OUTPUTS	for Speaker	for Speaker
CONNECTORS	Input: 3-pin XLR and Jack ¼" sockets, Output: Speakon NL4 connector	
PROTECTIONS	Thermal overload, DC, short circuit, clip limiter	
OPERATING VOLTAGE	230V AC (factory config), 50-60Hz	
POWER CONSUMPTION	1200VA	2000VA
COOLING	Continuously speed fan, automatic, 230V AC	
DIMENSIONS (WxDxH)	2RU space, 360mm depth	2RU space, 460mm depth
WEIGHT	14Kg	18Kg

Dimensions



Unit: mm (millimeters)

PROFACTOR S.A., all rights reserved. The technical data and the functional product characteristics can be subject to modifications. The photocopying, the translation, and all other forms of copying of fragments or of the integrity of this user's manual is prohibited.

PROUDLY DEVELOPED AND
MANUFACTURED IN PORTUGAL

MOOSE is a brand of PROFACTOR S.A.

PROFACTOR S.A

Rua do Padrão 52
4440-617 Valongo
PORTUGAL
Telf.: +351 224 119 160
Fax: +351 224 155 822
info@profactor.pt

MOOSE



www.moosesound.com