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# Manual

Audioprojekte

# CA10

Class-A Power Amplifier

a sense of music

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## CA10 Manual

Thank you for choosing the CA10 Power Amplifier. It has been designed, manufactured and tested to the highest possible standards in order to give you many years of musical enjoyment.

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### Important Safety Instructions

Please read all instructions and precautions carefully before operating your CA10 Power Amplifier.

- 1) Please switch off all devices in your audio system before connecting or disconnecting any mains or interconnect cables.
- 2) Ensure that your CA10 is always terminated with a three pin IEC AC power cord. To prevent the possibility of electric shock all three connections must be used.
- 3) Never operate this product with any covers removed.
- 4) Never allow the inside of this unit to become wet, or spill liquids directly onto or into it.
- 5) Never block the air flow through the vents on the top and bottom covers.
- 6) Never bypass any fuse or replace a fuse with anything other than that specified.
- 7) There are no user serviceable parts within this product. If any problems occur, please contact us or your CA10 retailer.
- 8) Never expose this product to extremely high or low temperatures.

### Introduction

The CA10 is a 10 watts per channel Class-A stereo power amplifier capable of great musicality and realism. The amplifier is able to reproduce the body and soul of music like some of the good vintage designs, but also achieves fidelity characteristics of modern devices.

And in deed, parts of the CA10 circuitry are based on the classical topologies of the 60ies and 70ies of the previous century. Other parts of the circuitry are typically modern style.

The mixture of modern and classical topologies in conjunction with carefully selected transistors and their appropriate points of operation leads to a different sound pattern than usually found in solid state amplifiers.

### Design Features

**Measured/Matched Semiconductors:** All semiconductors used in the CA10 are measured to certain criteria. This is very time consuming, but necessary to achieve the intended performance of the amplifier.

**Selection of Parts:** The CA10 uses the best sounding and quality parts available regardless of costs. All components have been auditioned for performance and consistency in endless listening tests.

**Low Noise Power Supply:** The power supply of the amplifier is divided into two sections. The first part is built from an encapsulated toroidal transformer followed by a 35 ampere bridge rectifier and a large C-R-C filter. The second part of the power supply is an active regulated on-board circuitry with excellent transient response and a deep ripple suppression (-120dB!).

**Slow Turn On Sequence:** The CA10 has no sound sophisticating relays in the outputs. To prevent turn-on thumps the operating voltage is risen slowly (20sec.) by the power supply. Connecting a delicate driver directly to the outputs should not present any hazard. In case the source is still playing music while the amp has been switched off, you can still hear more or less distorted music. That is normal and the price one has to pay for the absence of a relay.

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### Setup

The amplifier has three sets of connections:

The first connection is the AC line power system. In order to conform with CE regulations the CA10 is fitted with an IEC inlet with rocker style power switch and fuse holder on the rear of the unit. We provide your amplifier with a standard AC power cord which fits into the line receptacle located just below the power switch.

The second connection is at the input, which occurs through a standard RCA connector.

The third connection is the amplifier output connection.



**1) IEC Mains Input, Switch And Fuse Holder:** Use an earthed 3 pin mains lead with your CA10 at all times. Ensure the amplifier has the correct mains voltage (115VAC or 230VAC, indicated on the back of the unit).

**2) WBT 0201 RCA Inputs:** Accepts signals from preamplifiers or digital components with a variable analogue output via high quality RCA cables.

**3) WBT 0763 Speaker Binding Posts:** The red connectors are positive and the white connectors are negative. The binding posts accept 4 mm banana plugs, Spades (6-8mm) and crimped cable ends (up to 9AWG/6mm<sup>2</sup>).

#### Turn On:

If all connections have been made set the volume of your preamplifier or other source to a low level. Then turn on your audio system. As a general rule for the proper sequence:

When powering up an audio system, turn on the power amplifier last

When powering down an audio system, turn off the power amplifier first

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### Ventilation

The CA10 has a power consumption of 150 watts at all times. Nearly all of this energy will appear as heat on the heat sinks, and good ventilation is absolutely necessary for proper operation of the amplifier. Please allow the CA10 to have a clearance of at least 6 inches (15cm) on its sides and top. The slotted vents on the top panel and the bottom side of the unit should not be obstructed, as this would reduce the free flow of cooling air through the unit.

### Break In Period

Every CA10 undergoes a 72 hours long-term test and break in period with a final audition. For this reason your CA10 power amplifier will deliver excellent performance straight out of the box. However, you should expect to hear it improve within additional 30 to 50 hours of operation. After that time it remains quite consistent.

It is not necessary to leave your CA10 power amplifier on permanently.

### Operating Voltage

The power supply is set by the manufacturer to work at either 115VAC or 230VAC at 50/60Hz. The voltage is indicated on the rear panel.

### Specifications:

Voltage Gain: 24 dB

Input Sensitivity: 0.55 V

Output Power: 10 Watts/ch 8 Ohms; 8 Watts/ch 4 Ohms

Frequency Response: -3dB at 5 Hz, 150 kHz

Distortion: (1kHz) < 0.02% at 1 Watt, 8 Ohms (mainly 2. harmonics)

Input Impedance: 100 kOhms

Internal Resistance: < 200 mOhms

Output Noise: < 1 mV, unweighted, DC-100 kHz

DC Offset: < 5 mV

Power Consumption: 150 Watts continuous

Measurements: 17.7" W x 13.4" D x 5.5" H (450x340x140mm)

Weight: 32 lb (14.5kg)

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### Warranty Information

The CA10 is warranted by RB Audioprojekte for 3 years beginning with the date of purchase. During that time, RB Audioprojekte will provide free labour and parts at the manufacturing site. The warranty does not include damage due to misuse or abuse or modified products and also does not include consequential damage.

If you are unsure about any aspect of obtaining service, please contact your dealer or you can contact us directly.

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