

*Classé*

OWNER'S MANUAL  
CAM-200  
Mono Power Amplifier

## *CLASSÉ DESIGN PHILOSOPHY*

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### 1. REPEATED LISTENING DESIGN SESSIONS:

Fine tuning of sound by exchanging and mixing of parts (transistors, capacitors, wiring, PCB boards etc.), and adjusting many specific operating voltages within proper engineering ranges, producing an overall sonic recipe giving the most natural harmonic realism of music typical of instruments in a live performance.

### 2. UPGRADABLE SINGLE CIRCUIT DESIGNS:

All Classé products (all preamps and all amps) share exactly the same circuit (excluding moving coil and moving magnet phono circuits). This means all amplifiers and all high level circuits of the preamps are the same. The same circuit is tailored to different power levels etc. Differences between less expensive models and more expensive models are parts quality and compliment, power supply extravagance and the amount of filtering etc., as well as features and packaging.

This means that for years Classé has been constantly fine tuning and upgrading this circuit and its application, thus reaching a very high level of understanding and musical achievement which benefits all models - least expensive, most expensive, preamps and amplifiers alike.

### 3. EXTREME LONG LIFE IN REAL WORLD CONDITIONS:

Choosing the best attainable quality parts and materials combined with the advantages of the two above-mentioned areas provides Classé owners with years of proven trouble free reliability and musical enjoyment

CAM200  
OWNER'S MANUAL

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***UNPACKING & SET-UP***

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Your CLASSE CAM200 power amplifier is packed in high density, semi-rigid foam placed in a special cardboard box. Take it out of the plastic bag and inspect the unit for any concealed damage. Apart from this owner's manual, please ensure the following has also been included:

- 1) Detachable A.C. linecord

**Please report any damage or missing parts to your dealer immediately.**

Place the CAM200 at or near its final set-up position, allowing 8 inches at the rear for tightening the speaker output connectors. For optimum sonic performance, we recommend the optional CLASSE REFERENCE A.C.

. Consult your dealer regarding this accessory.

The power transformer in the CAM200 is located at the front center of the unit. Ideally, a few feet should separate this area from components which are potentially could pick up hum. These include preamplifiers, turntables, and interconnect cables. In terms of providing adequate airspace for cooling, a good rule of thumb is to allow 6 inches above and 3 inches on each side of the unit.

Check the Serial Number sticker on the back of the unit for the correct operating voltage. The CAM200 has one external AC fuse, the rating of which should be as follows:

<u>LINE VOLTAGE</u>	<u>FUSE RATING</u>
100 or 120 V.A.C	10 AMP SLOW-BLOW 125 or 250 volts
220 or 240 V.A.C	8 AMP SLOW-BLOW 250 volts

## ***GENERAL CONNECTIONS***

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### A.C. LINE

Insert the linecord into the A.C. receptacle on the rear of the unit. **PLEASE MAKE SURE YOU HAVE PREVIOUSLY HOOKED UP THE SPEAKERS AND PREAMPLIFIER TO YOUR AMPLIFIER BEFORE CONNECTING THE AC POWER CORD TO THE AMPLIFIER.**

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**CAUTION: SAFETY INSTRUCTIONS**

DISCONNECT AC LINE CABLE WHILE MAKING ALL CONNECTIONS. **"FLOATING THE GROUND", OR DEFEATING THE GROUND ON A 3-PRONG LINECORD MAY CREATE A SHOCK HAZARD.** CONNECT ALL INTERCONNECT CABLES BETWEEN THE ELECTRONICS BEFORE CONNECTING THE A.C. LINECORDS TO THE WALL OUTLETS. THIS WILL REDUCE THE POTENTIAL SHOCK HAZARD.

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Input and output connectors are clearly marked on the back of the amplifier. Use only high quality interconnect and loudspeaker cables, and make all connections tight. If the RCA input plugs are loose, remove them and pinch down the ground leaves slightly with pliers. Observe correct phasing of the loudspeaker connections, and tighten.

*Caution:*

- 1) **Do not over tighten the output connectors as this can result to damage your unit.**
- 2) **Do not use speaker system that has common ground with this amplifier.**

**IR OUT and IN**

The CAM200 can be turned ON /OFF using a +5VDC trigger or with remote control code via the IR IN jack located at the rear of the unit. The IR OUT is the loop out of the incoming signal from IR IN. The IR OUT has it own buffer to isolate between IN and OUT.

Your CAM200 is factory set as being the 1<sup>st</sup> amp (AMP 1) to be turned on in sequence. To re-program your unit so that it would be the 2<sup>nd</sup>, 3<sup>rd</sup>, 4<sup>th</sup>, 5<sup>th</sup> or 6<sup>th</sup> amps to be turned on in sequence you have to follow this procedure.

J3	J2	J1	J0	ADDRESS	RC Button	Auto ON	Note
X	X	X	X	0	Amp 1	No	Default setting
X	X	X	out	1	Amp 2	No	
X	X	out	X	2	Amp 3	No	
X	X	out	out	3	Amp 4	No	
X	out	X	X	4	Amp 5	No	
X	out	X	out	5	Amp 6	No	
X	out	out	X	0	Amp1	No	
X	out	out	out	0	Amp 1	Yes	Turn on when AC is live
out	X	X	X	0	DC	No	DC level: 5v=on, 0=off
out	X	X	out	1	DC	No	
out	X	out	X	2	DC	No	
out	X	out	out	3	DC	No	
out	out	X	X	4	DC	No	
out	out	X	out	5	DC	No	
out	out	out	X	0	DC	No	
out	out	out	out	0	DC	Yes	ON as plug in

**IR OUT and IN (Continued)**

The remote control system is RECS80 with the system code 5 and the command codes is as follows:

AMP1 _____	24	AMP4 _____	27
AMP2 _____	25	AMP5 _____	34
AMP3 _____	26	AMP6 _____	35

These command codes will toggle the CAM200 ON/OFF. To turn all six of the amplifier ON and OFF the following code should be used:

ALL ON _____	08	ALL OFF _____	9
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***CONNECTIONS FOR REGULAR OR BALANCED INPUTS:***

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The CLASSEÉ **CAM200** power amplifier is equipped with both regular and balanced inputs, either one may be used **SEPARATELY, BUT NOT SIMULTANEOUSLY**. Be sure that the CAM200 is OFF before changing any connections.

When the amplifier is shipped from Classé, there is a jumper at the balanced input (XLR) between pin 1 and 3. To use the amplifier in single ended mode simply connect a single ended interconnect from the preamplifier to the RCA input of the **CAM200**.

To use the CAM200 in balanced mode, remove the single ended interconnect and remove the jumper at the XLR; please keep this jumper for later use; connect the preamplifier to the CAM200 using balanced interconnect.

The XLR connector of the CAM200 is configured as below

PIN 1: DRAIN

PIN 2: POSITIVE (NON-INVERTED) SIGNAL, “HOT”

PIN 3: NEGATIVE (INVERTED) SIGNAL

All Classé preamplifiers and amplifiers have the same pin out configuration of the XLR. Other manufacturers may have different XLR pin out configuration please contact the manufacture if you wish to maintain absolute phase throughout your system when connect Classé’s equipment with other manufacturer’s equipment.

Having confirmed or established the correct phasing, be sure the amplifier is off, then plug the XLR connector of the balanced interconnect into the locking XLR connector on the rear panel of the **CAM200**. Push the connectors in until the locking mechanism clicks. To remove the connectors, press the tab above the connector while pulling gently on the connector body.

## **PROTECTION CIRCUIT**

The Classé **CAM200** equipped with a rail currents sensors to protect the output drivers under extreme condition such as short output, and Mosfet fuses (2AG 1/2 PT, 1/2 amp fast blow) to protect the Mosfets, which are used as pre-drivers for the output stage of the amplifier.

Also the CAM200 has an output DC sensor, this will put the CAM200 on protection mode in the event DC occurs at the output of the amplifier or heavy clipping of output signals. There is also an AC line fuse protecting the unit. It is located at the back of the unit immediately above the AC receptacle (see fig.1, page 10).

If the protection circuit of the unit is triggered or any of the fuses has blown, the FRONT PANEL POWER LED will go to BLINKING GREEN, indicating a “fault” condition.

WHEN THE PROTECTION CIRCUIT HAS BEEN TRIGGERED, UNPLUG THE AMP FROM THE OUTLET. Check for any possible event that might trigger the protection circuitry Such as short output, blow Mosfet fuses, after the situation which has triggered the protection circuit has been clearly identified and corrected, attempt to re-start the unit. IF THE UNIT STILL GOES INTO PROTECTION MODE, OR IF IT APPEARS THAT PROTECTION FUSES DID BLOW, CONTACT YOUR LOCAL DEALER. DO NOT TRY TO CHANGE A BLOWN FUSE. REPLACING A FUSE WITHOUT CHECKING FOR COMPONENT FAILURE COULD RESULT IN FURTHER, SERIOUS DAMAGE TO VITAL COMPONENTS IN YOUR AMPLIFIER. **CONTACT YOUR LOCAL DEALER or Customer Service at the Classé Audio, Inc ---(514) 636 63 84.**

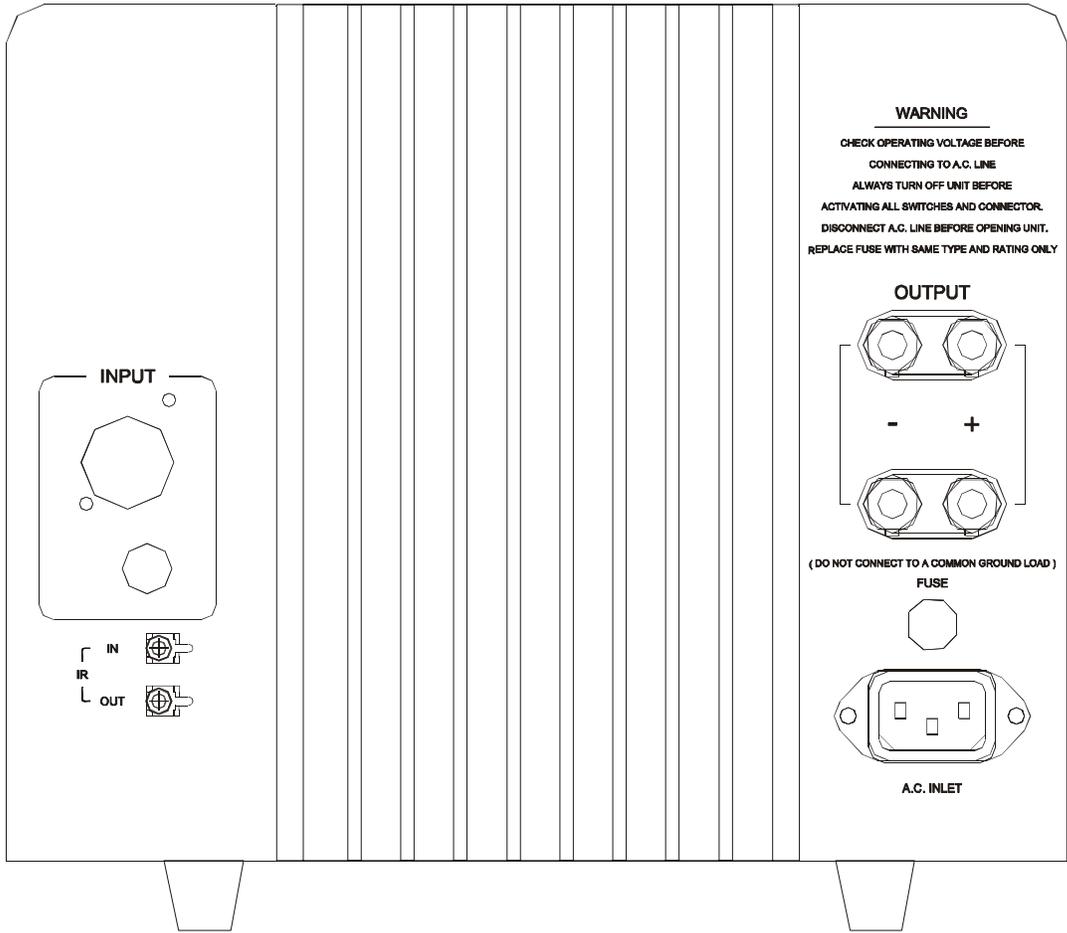


Fig 1: CAM200 back view

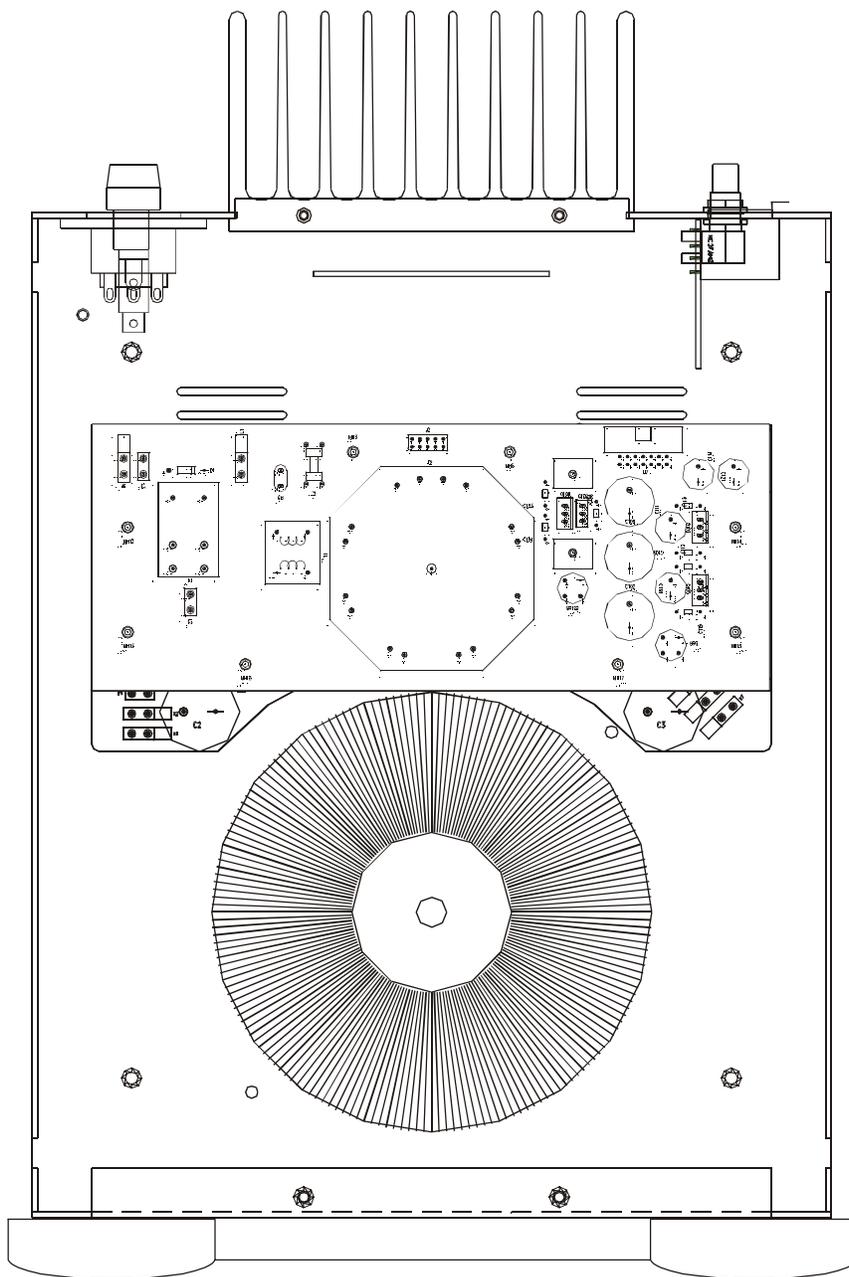


Fig 2: CAM200 top view

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# CLASSE CAM200

## *ULTRA HIGH CURRENT*

### *MONORAL POWER AMPLIFIER*

#### FEATURES AND SPECIFICATIONS SHEET

##### CAM200 FEATURES:

Newly developed special Classé "UHC TRANSFER" power supply section. Current capacity increased above standard units. All new Classé PCB circuit boards with "UHC TRANSFER" characteristics. True symmetrical, differential amplifier circuits from input to output. Thick brushed Soft Shadow Silver faceplate with Satin Black middle plate.

##### CAM200 SPECIFICATIONS:

Frequency response:	20 Hz to 20 kHz +/- 0.1 dB
Sensitivity:	1 Volts in for rated output
Input Impedance:	75 Kohms
Output Impedance:	0.017 Ohm
Gain:	29.02 dB
S/N Ratio:	135 dBR
THD+N:	0.004%
Rated Output:	
8Ohms:	200Watts
4 Ohms:	400Watts
Dimensions: Gross:	25" x 16" x 19.5"
Net:	11.5" x 16" x 9.5"
Weight: Gross:	52 lbs.
Net:	48 lbs.



**Notice to all Classé Product owners:**

Thank you for your purchase of a Classé Audio component.

All of us at Classé have taken extreme care to ensure that your purchase will become a prized investment. We are proud to inform you that all Classé Audio components have been officially approved for the European Community CE mark.

This means that your Classé product has been subjected to the most rigorous manufacturing and safety tests in the world, and have proven to meet or exceed all European Community CE requirements for unit to unit consistency and consumer safety.

All of us at Classé Audio wish you many years of musical enjoyment.

**As of July 18, 1996, Classé Audio has been granted Certificate No: C401CLA1.MGS, which indicates CE approval for all models of the Classé Audio product line.**