

CLASSÉ AUDIO

C-100

REMOTE CONTROL

BALANCED PREAMPLIFIER

C-100

OWNER'S MANUAL

CLASSÉ DESIGN PHILOSOPHY

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 design philosophy (excluding moving coil and moving magnet phono circuits). This means all amplifiers and all high level circuits of the preamps benefit from the same design goals. Similar circuits are then 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 sonically fine tuning and technically upgrading this circuit design and its application, thus reaching a very high level of natural musical enjoyment, as well as excellent reliability 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.

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UNPACKING & SET-UP

Your CLASSÉ C-100 preamplifier has been carefully wrapped in heavy gauge plastic, packed in semi-rigid foam and contained in a special box. To remove the unit, open and spread the top flaps of the box. By its sides, lift out the entire unit with foam pieces intact. Remove each foam side by pulling straight out. Remove the plastic wrap and inspect the unit for any concealed damage. Apart from this owner's manual, please ensure the following has also been included:

- 1) DETACHABLE LINECORD.
- 2) ALLEN KEY FOR TOP COVER.
- 3) RESISTOR KIT FOR MOVING COIL GAIN ADJUSTMENT
- 4) REMOTE CONTROL UNIT (Allen key and Batteries: AAA X 2 included).

Please report any damage or missing parts to your dealer promptly.

This preamplifier, being capable of very high gain, must be located in a position free of any hum-inducing magnetic fields. (This also applies to turntables and interconnect cables.) Positions adjacent to power amplifiers, A.C line filters, or regulation devices should be avoided. Ideally, a few feet should separate the preamplifier from the power amplifier. As well, keep low-level interconnect cables away from the power amp and separate from A.C. linecords.

Heat generated by the preamplifier is negligible. Air space around the unit need not be a concern.

Check the Serial Number sticker on the back of the unit for the correct operating voltage. Regardless of voltage, the internal fuse rating should be 1 AMP SLO-BLO.

A.C. LINE POWER

The Classé **C-100** preamplifier has no power switch. Its low power consumption and improved sonics from always being ON led to the omission of an ON/OFF switch. In fact, while thoroughly musical shortly after turn-on, the preamplifier will exhibit "sonic growth" during its first 300 hours of use.

For optimum sonic performance, you should consider the use of the optional CLASSÉ REFERENCE A.C. LINECORD. Consult your dealer regarding this accessory.

SAFETY FEATURE:

The **C-100** preamplifier is designed with an auto-muting circuit which engages and is indicated by a FLASHING GREEN LED when the unit is first connected, or after an AC power failure. After 15 seconds the STEADY GREEN LED signals that the unit is in STANDBY mode (Note: MUTE is ON during STANDBY mode).

This feature will prevent any turn-on surges or unstable output from reaching the power amplifier and possibly the loudspeakers. Similarly, make sure the MUTE is ON (STEADY GREEN) again when removing A.C. line power.

CAUTION:

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. SEE ALSO THE WARRANTY SECTION OF THIS OWNER'S MANUAL.

INPUTS:

The input jacks are clearly marked on the back of the **C-100**. The following inputs are provided: PHONO/AUX, VIDEO, CD, TUNER, BALANCED, and TAPE.

PHONO/AUX

The **C-100** preamplifier can be configured as a PHONO or LINE unit by setting the internal jumpers (see fig.1, 2 & 3, Page 9). The PHONO and AUX share the same pair of RCA input jacks. The following steps should be performed to switch between them.

- 1) Make sure MUTE is ON (Steady GREEN)
- 2) Disconnect A.C. linecord from the wall outlet.
- 3) Remove the top cover with the Allen key supplied.
- 4) Locate PHONO/AUX Input and Output jumpers (see fig.1, Page 9). Switch to desired type of input (see fig.2 & 3 Page 9).

PHONO INPUT:

When switched to PHONO the input can accommodate both magnetic and moving coil cartridges of varying output levels. Set the jumpers (see fig.1, 4 & 5, Page 9 & 10) to MM for magnetic or MC for a moving coil cartridge. In the MC position, gain of the Moving Coil stage is factory preset at 23dB which matches perfectly with most typical MC cartridges. With the resistor kit (included), the gain can be adjusted from 13dB to 41dB, in order to optimize system gain, and low noise while using other less typical MC cartridges. (Note: The MC gain is in addition to the standard MM gain of 38dB). To change the MC gain, proceed as follows:

- 1) Make sure MUTE is ON (Steady GREEN)
- 2) Disconnect A.C. linecord from the wall outlet.
- 3) Remove the top cover with the Allen key supplied.
- 4) Locate R104 and R204 (see fig.1, Page 9), which are the MC gain setting resistors for the LEFT and RIGHT channels respectively. Remove the resistors and replace them with newly selected ones, according to the following chart:

RESISTOR VALUE	GAIN
1271	13dB
4991	23dB (standard)
1002	29dB
2002	35dB
4752	41dB

Silver solder is provided in the kit for this purpose. The resistor kit is for setting the MC gain which will optimize output levels, noise, and efficiencies of less typical cartridges.

5) Having completed the resistor changes, replace the top cover.

AUX INPUT:

When selected (see Fig.1 & 3 Page 9) the AUX input serves as an additional high level input, accommodating additional sources such as VIDEO, CD, TUNER, etc..

VIDEO, CD, TUNER:

These are all high level inputs sharing exactly the same characteristics, and may be interchanged if so desired.

BALANCED

The BALANCED INPUT is a true differential high level input, wired as follows:

PIN 1: GROUND

PIN 2: POSITIVE (NON-INVERTED) SIGNAL

PIN 3: NEGATIVE (INVERTED) SIGNAL

It may be used with CD players that have a balanced output, or any other high level balanced sources.

TAPE IN

The TAPE IN of the C-100 preamplifier should be connected to the LINE OUT or TAPE OUT of the tape deck. The TAPE input does not appear on the selector switch. It is activated by the TAPE switch. (See FRONT PANEL CONTROLS: TAPE SWITCH.)

(J102) PHONO/AUX Input Jumper (LEFT Ch.) (J202) PHONO/AUX Input Jumper (RIGHT Ch.)

(J101) MC/MM Jumpers (LEFT Ch.) (J201) MC/MM Jumpers (RIGHT Ch.)

A.C. internal fuse

(R204) MC Gain resistor (RIGHT Ch.)

(R104) MC Gain
resistor (LEFT Ch.)

(J103) PHONO/AUX Output Jumper (LEFT Ch.) (J203) PHONO/AUX Output Jumper (RIGHT Ch.)

FIG.1 JUMPER LOCATIONS

				LEFT CH.		RIGHT CH.			
	PHONO	AUX	AUX	PHONO		PHONO	AUX		RIGHT CH.

LEFT CH.

INPUT JUMPERS

OUTPUT JUMPERS

FIG.2 JUMPER SETTING FOR PHONO INPUT SELECTION

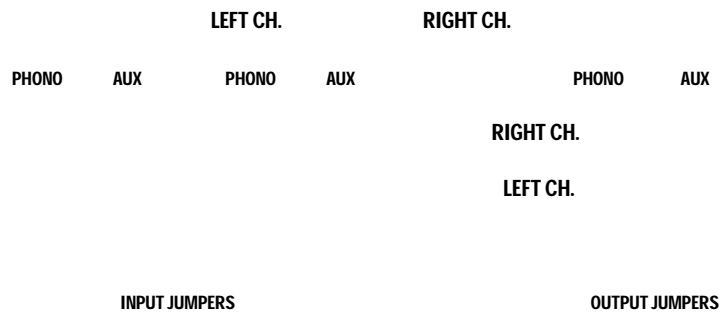


FIG.3 JUMPER SETTING FOR AUX INPUT SELECTION

FIG.4 PHONO JUMPER SETTING FOR MOVING MAGNET (MM)

FIG.5 PHONO JUMPER SETTING FOR MOVING COIL (MC)

OUTPUTS

The Classé **C-100** preamplifier has both regular (single-ended) and balanced outputs. Both are working at all times, and may be used separately, or simultaneously.

TAPE OUTPUT

Whatever input is selected by the INPUT SELECTOR will be fed to the TAPE OUTPUT jacks. This should be connected to the TAPE IN or LINE IN of the tape deck.

REGULAR OUTPUTS

Simply connect your regular interconnects to the RCA output jacks marks REGULAR OUTPUT on the back of the **C-100**.

BALANCED OUTPUTS

A balanced power amplifier and balanced interconnects are also required. For use with a balanced power amplifier other than Classé, the wiring of the 3-pin XLR connectors must be wired as follows:

PIN 1: GROUND

PIN 2: POSITIVE (NON-INVERTED) SIGNAL

PIN 3: NEGATIVE (INVERTED) SIGNAL

If the pin configuration of the power amplifier differs from above, the balanced interconnects must be modified to accommodate the different power amp.

Having confirmed the correct connections, plug the XLR connectors of the balanced interconnects into the locking XLR connector on the rear of the **C-100** marked BALANCED OUTPUT. (To remove the connectors, press the tab above the connector.)

FRONT PANEL CONTROLS

INPUT SELECTOR:

This selects one of the five inputs connected to the preamplifier, except TAPE IN (see TAPE SWITCH below). The selector switch is silent and will prevent pulses when switching positions. However, it remains good practice to reduce the volume control level or put MUTE to ON (steady GREEN LED) when changing the input selection.

TAPE SWITCH:

In the SOURCE position, the preamp will process the signal as chosen by the INPUT SELECTOR. In the MONITOR position, the preamp will process the TAPE INPUT signal, overriding the INPUT SELECTOR.

BALANCE CONTROL:

The custom balance control permits equal output of each channel in the center (detented) position without additional loading to the signal. When shifted to the left or right, it merely attenuates the opposite channel.

VOLUME CONTROL: (remote control)

The VOLUME CONTROL varies the output level of both channels simultaneously. It can be operated from remote using the hand held control unit (see fig.6 Page 14) or manually turning the control knob at the preamp.

PLAY/MUTE SWITCH: (remote control)

Switching between PLAY and MUTE can be done by either manually pressing the PLAY/MUTE switch down momentarily on the C-100 faceplate or pushing the MUTE button on the hand held remote control unit. The PLAY (or MUTE OFF) and MUTE ON selections are indicated by the STEADY RED or GREEN LED respectively at the preamp.

When MUTE(ON) is selected, which is indicated by a STEADY GREEN LED, the outputs of the preamplifier are completely cut off. In the PLAY (MUTE OFF) selection, which is indicated by a STEADY RED LED, the signal is allowed to pass to the power amplifier.

NOTE: WHEN THE C-100 IS IN THE MUTE POSITION, AND THE VOLUME CONTROL IS TURNED UP USING THE REMOTE CONTROL UNIT, THE PLAY MODE IS AUTOMATICALLY SELECTED.

CAUTION: Make sure the preamp is in MUTE(ON) when making or changing any connections. This includes all inputs and outputs, as well as A.C. linecord.

LED INDICATOR

MUTE (ON/OFF)

VOLUME DOWN

VOLUME UP

FIG.6 REMOTE CONTROL UNIT (Top view)

BATTERY COVER

FIG.7 REMOTE CONTROL UNIT (Bottom and Side view)

CLASSÉ C-100 LIMITED FACTORY WARRANTY (North America only).

Classé Audio Inc. warrants this preamplifier to be free from defects in materials and workmanship for a period of **FOUR YEARS** from date of manufacture, provided that any claim in virtue of this warranty be made in writing within such period. (Hand held remote control 1 year only. No warranty for batteries).

Subject to all of the conditions stated herein, **A LIMITED FACTORY LIFETIME WARRANTY IS EXTENDED ONLY TO THE ORIGINAL OWNER WHO PURCHASED THE PREAMPLIFIER IN NORTH AMERICA AND WHO CLAIMS UNDER THIS WARRANTY IN NORTH AMERICA (not applicable to hand held remote control and batteries).**

IMPORTANT: WARRANTY REGISTRATION, AND A COPY OF THE "AUTHORIZED DEALER BILL OF SALE", MUST BE RECEIVED AT THE CLASSÉ FACTORY (address below) WITHIN TWENTY (20) DAYS OF PURCHASE, TO VALIDATE THIS WARRANTY.

In the event of failure of this preamplifier, Classé Audio Inc. will repair, recalibrate, or at our discretion, replace the unit in accordance with and providing that all the clauses contained in this warranty are met.

In order to initiate service of any kind, it is necessary to **OBTAIN PRIOR FACTORY AUTHORIZATION, AND SHIP THE UNIT PREPAID.** For units coming from outside Canada, contact the factory for our forwarding address. Units shipped directly to our Canadian address from outside the country will be stopped at the border, causing extensive delays or return of the unit to the sender.

The warranty shall be void and of no effect in the event of any of the following:

- 1) Operation not in accordance with this manual.
- 2) Accident, abuse, tampering, or unauthorized Modification, as determined by Classé Audio Inc.
- 3) Removal, defacing, or falsifying the serial number plate.
- 4) Shipping without the complete factory packaging.
- 5) Transfer or sale of this preamplifier by the original owner.
- 6) Non-compliance with any of the other conditions hereof.

CLASSÉ AUDIO INC. SHALL NOT BE LIABLE FOR ANY SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES REGARDING THE SET-UP, OPERATION, FAILURE, TROUBLESHOOTING, OR REPAIR OF THE PREAMPLIFIER AND/OR ANY OTHER EQUIPMENT USED

THEREWITH.

THIS WARRANTY, ALL CLAIMS MADE IN VIRTUE HEREOF, AND ALL ISSUES RELATING TO ANY SUCH CLAIM SHALL BE GOVERNED BY THE LAWS OF THE PROVINCE OF QUÉBEC.

CLASSÉ C-100
REMOTE CONTROL
BALANCED PREAMPLIFIER
FEATURES
AND
SPECIFICATIONS SHEET

C-100 FEATURES:

Remote control featuring adjustments for volume and mute, slimline chassis, balanced inputs, balanced outputs, regular outputs, MC/MM phono/aux, tuner, tape, CD, video inputs, volume, balance, mute, and a contoured faceplate featuring a Soft Shadow Silver finish mounted with golden screws.

C-100 SPECIFICATIONS:

Frequency Response:		20 Hz to 20 kHz +/- 0.1dB
Maximum Output:		15 Volts
Sensitivity:	Line:	120 Millivolts
	Magnetic Phono:	3 Millivolts
	Moving Coil Phono:	0.2 Millivolts
S/N Ratio ('A' Weighted):	Line:	95 dB
	Magnetic Phono:	85 dB
	Moving Coil Phono:	85 dB
Input Impedance:	Line:	50 KOhms
	Magnetic Phono:	47 KOhms
	Moving Coil Phono:	Automatic
Output Impedance:		Less than 1 Ohm
Gain:	Line:	20 dB
	Magnetic Phono:	38 dB
	Moving Coil Phono:	23 dB (Adjustable 13 dB - 41 dB)
Power Requirement:		50 Watts
Dimensions:	Gross:	22 1/2" x 14 1/2" x 7 1/2"
	Net:	19" x 10 3/4" x 2 7/8"
Weight:	Gross:	15 lbs
	Net:	11 lbs

WARRANTY REGISTRATION

You must fill out and return the form below, along with a copy of the authorized dealer bill of sale, to the factory within twenty (20) days of purchase. This will allow us to provide expedient service, information regarding updates and new products, and validate the Classé warranty.



C-100 SERIAL NUMBER _____ PURCHASE DATE _____

AUTHORIZED DEALER _____

PURCHASER'S NAME _____

STREET ADDRESS _____

CITY _____ STATE/PROV. _____

COUNTRY _____ ZIP/POSTAL CODE _____

I BECAME AWARE OF THIS PRODUCT BY: _____

(DEALER, MAGAZINE, FRIEND, ETC.)



SEND TO: CLASSÉ AUDIO INC.

Product Registration

5070 François Cusson

Lachine, Quebec, Canada

H8T 1B3