

CLASSÉ AUDIO

CAV-150

MULTI-CHANNEL
POWER AMPLIFIER

CAV-150

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 (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.

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UNPACKING & SET-UP

Your Classé CAV-150 multi-channel power amplifier is packed in high density, semi-rigid foam placed in a special cardboard box. To remove the unit, open and spread all the top flaps of the box and by its sides, lift out the entire unit and put it on a large flat surface. 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 have also been included:

- 1) Detachable linecord.
- 2) Allen key for top plate.

Please report any damage or missing parts to your dealer as soon as possible.

Place the CAV-150 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 CLASSÉ REFERENCE A.C. LINECORD. Consult your dealer regarding this accessory.

The power transformer in the CAV-150 is located at the front-center of the unit. Ideally, a few feet should separate this area from components which 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 CAV-150 has one line fuse (internal), the rating of which should be as follows:

<u>LINE VOLTAGE</u>	<u>FUSE RATING</u>
100 or 120 V.A.C.	8 AMP SLOW BLOW 125 or 250 volts
220 or 240 V.A.C.	6 AMP SLOW BLOW 250 volts

INTERNAL RAIL FUSES:

The CAV-150 is designed with each channel protected by one pair of internal fuses for positive and negative rails (see fig-1b page 8) 8 AMP FAST BLOW 125 volts

GENERAL CONNECTIONS AND OPERATION:

A.C. LINE: Insert the linecord into the A.C. receptacle on the rear of the unit.

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

REGULAR INPUTS:

The CAV-150 is factory set for REGULAR use. Connect the regular interconnect to the RCA input jacks, for Channel-1 and Channel-2 make sure the Regular/Balanced switch is set to position marked "Regular" (down) which selects REGULAR inputs for both channels-1 and channel-2. (The Balanced XLR input jacks are automatically disable).

BALANCED INPUTS:

Balanced inputs are available to Channel-1 and Channel-2 only. For use with balanced preamplifier other than Classé, the wiring of the 3-pin XLR connectors must be matched to that of the Classé wiring configuration, which are as follows:

PIN 1: Ground

PIN 2: Positive (non-inverting) signal

PIN 3: Negative (inverting) signal

If the pin configuration of the preamplifier differs from above, the balanced interconnects must be modified to accommodate the different preamp. Make sure the Regular/Balanced switch is

set to position marked "Balanced" (up). Regardless of the type of input used, NORMAL or BRIDGED operation is still possible for Channel-1 and Channel-2

NORMAL OPERATION:

Input and output connectors for each channel are clearly grouped and marked on the back of the amplifier. (Units are preset at the factory for NORMAL.)(see fig.2&3 page 9&10) for typical connections of the CAV-150.

Use only high quality interconnect and loudspeaker cables, and make all connections tight. If the input plugs are loose, remove them and pinch down the ground leaves slightly with pliers. Observe correct phasing of the loudspeaker connections, and tighten.

BRIDGED OPERATION:

The six (6) channels of the CAV-150 are divided into three (3) groups. These groups can be operated and configured independently _ Channel-1 with Channel-2, Channel-3 with Channel-4, and Channel-5 with Channel-6. When in bridged mode, the inputs of CH-1, CH-3 and CH-5 are used respectively. The unused inputs of CH-2, CH-4 and CH-6 are automatically disconnected when configured in bridged mode. The following steps should be performed to switch between NORMAL mode and BRIDGED mode.

- 1) Turn OFF the unit and disconnect the AC cable.
- 2) Reconnect all cables. Make sure the input and output connections of channels to be switched are according to the operating mode. (see fig.2&3 page 9&10).
- 3) Locate and set the mode switch to the desired operating mode (see fig.1a page 8) for channels to be switched (up=BRIDGED, down=NORMAL)

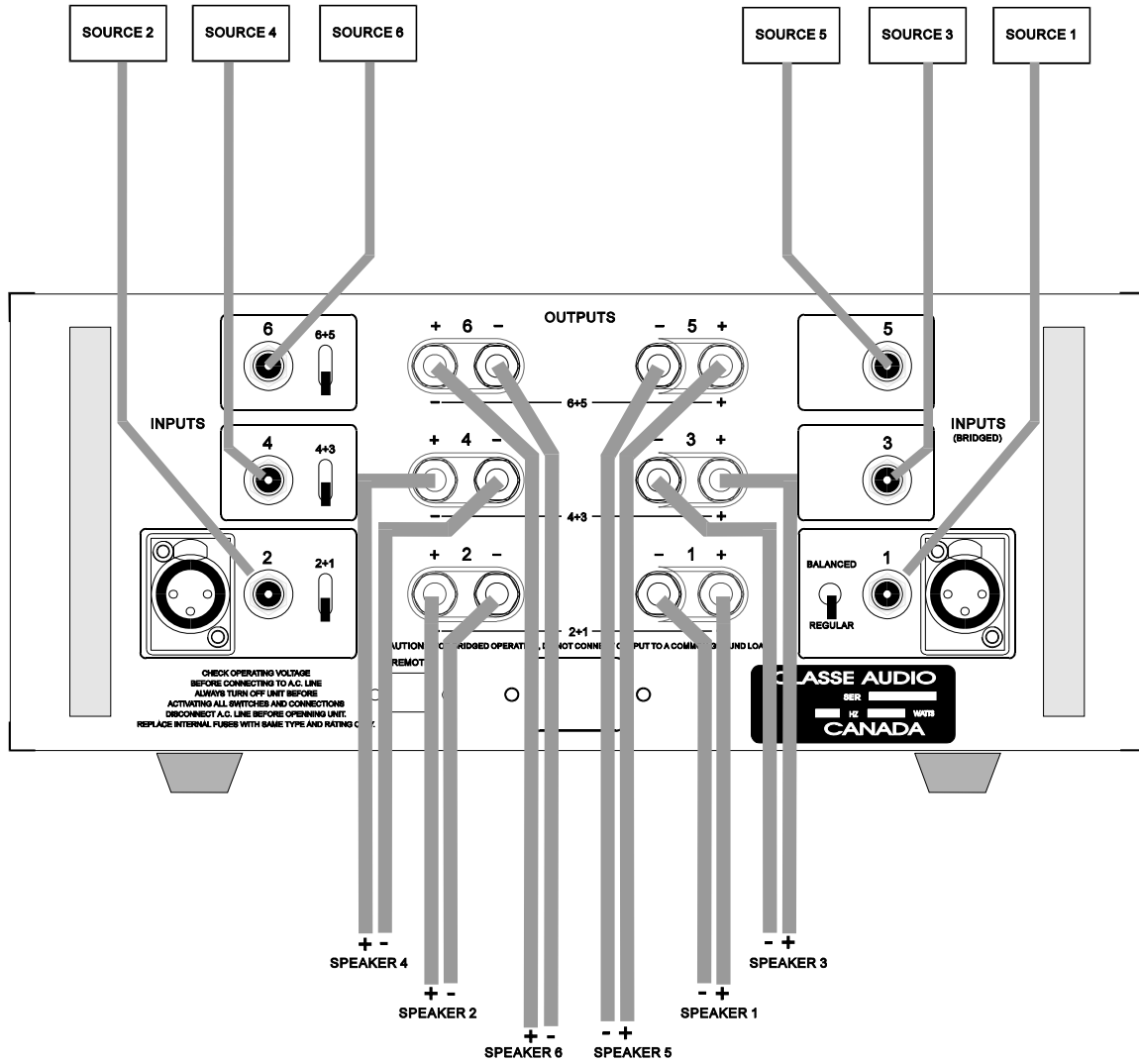
Please read through the previous normal section for general notes on securing good connections, and safety tips.

CAUTION: Please remember that the negative output connection of a bridged amplifier is NOT a ground. Do not use a "common ground" or switchbox set-up. Do not use with electronic crossovers which have a common ground.

REMOTE CONTROL: (optional)

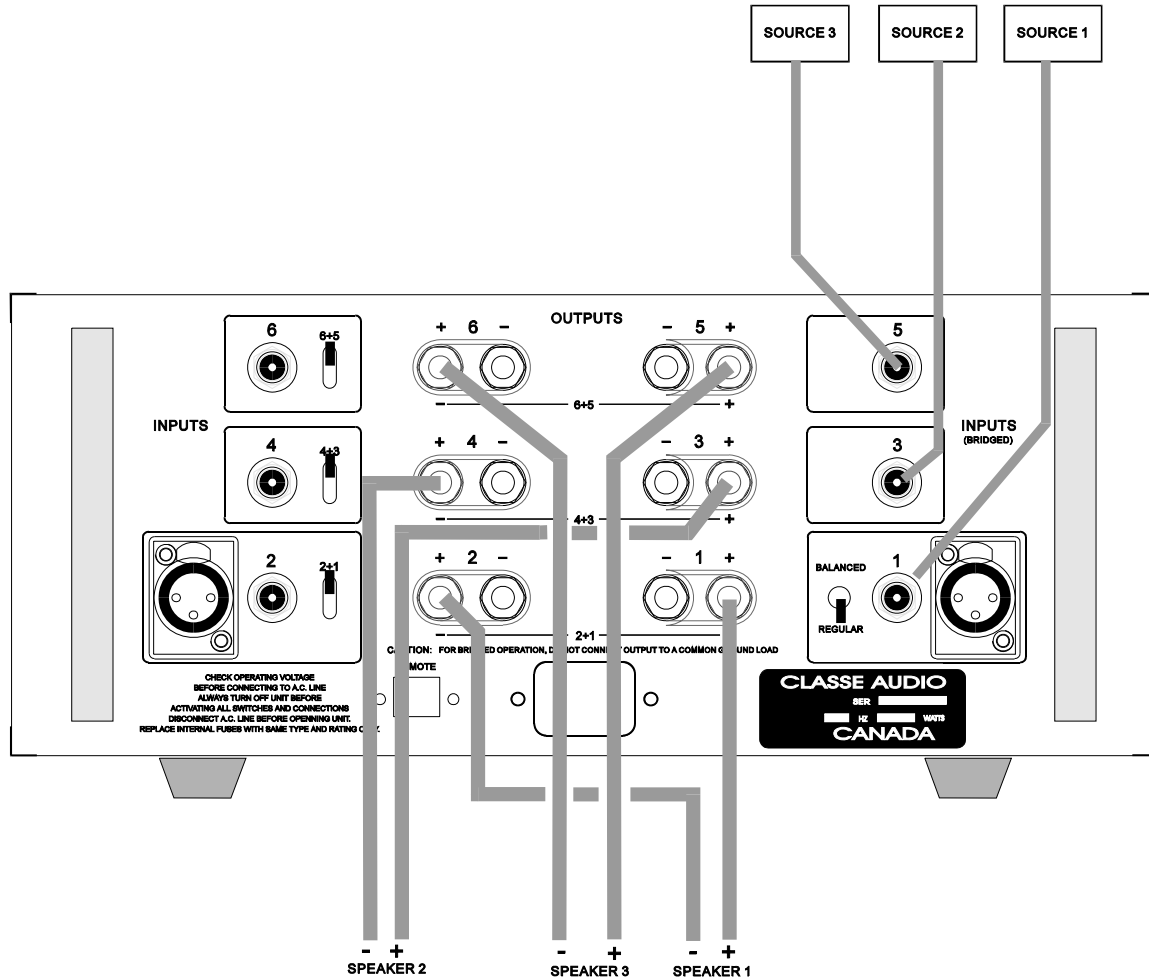
With a simple connection from the receiver box to the remote jack at the back of the amplifier, (see Fig.1a page 8) the power amplifier can be turned ON/OFF from a distance (or from another room).

SPECIAL FEATURES: The front LED will change from Red to Green if any of the (12) internal rail fuses are blown.



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Fig.2 CAV-150 6-CHANNEL configuration connections



CAUTION: FOR BRIDGED OPERATION DO NOT CONNECT OUTPUT TO A COMMON GROUND LOAD

Fig.3 CAV-150 3-CHANNEL configuration connections

CLASSÉ CAV-150 LIMITED FACTORY WARRANTY (North America only).

Classé Audio Inc. warrants this amplifier to be free from defects in materials and workmanship for a period of FOUR YEARS from the date of manufacture, provided that any claim in virtue of this warranty be made in writing within such period.

Subject to all of the conditions stated herein, A LIMITED FACTORY LIFETIME WARRANTY IS EXTENDED ONLY TO THE ORIGINAL OWNER WHO PURCHASED THE AMPLIFIER IN NORTH AMERICA AND WHO CLAIMS UNDER THIS WARRANTY IN NORTH AMERICA.

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 amplifier, resulting from defects in materials and workmanship, Classé Audio Inc. will repair, recalibrate, or at its discretion, replace the unit providing that all the conditions 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 TO THE CLASSÉ FACTORY. 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 amplifier 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 ARISING FROM OR RELATING TO THE SET-UP, OPERATION, FAILURE, TROUBLESHOOTING, OR REPAIR OF THE AMPLIFIER 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 CAV-150

MULTI-CHANNEL

6-CHANNEL POWER AMPLIFIER

FEATURES

AND

SPECIFICATIONS SHEET

CAV-150 FEATURES:

6-Channel Power amplifier 150 watts/channel. Single ended and Balanced inputs. External switching capability for different channel configurations. Custom Classé heat sinks, thick curved faceplate with sculpted one piece handles. Available in both Satin Black, and Soft Shadow Silver finishes.

CAV-150 SPECIFICATIONS:

Frequency Response:	20 Hz to 20 KHz +/- 0.1 dB
Sensitivity:	1.2 Volt in for rated output
Input Impedance:	75 Kohms (single ended) 16 Kohms (balanced)
Output Impedance:	0.05 Ohm
Gain:	29 dB
S/N Ratio:	More than 135 dB
THD+N:	0.004%
Maximum power and Channel configuration	With 8 Ohms load
Six (6) Channels	150 Watts x 6
Five (5) Channels	300 Watts x 1 (bridged) 150 Watts x 4
Four (4) Channels	300 Watts x 2 (bridged) 150 Watts x 2
Three (3) Channels	300 Watts x 3 (bridged)
Power Consumption (idle):	225 Watts
Dimensions: Gross:	14" x 25 1/2" x 25"
Net:	6 3/4" x 19" x 21 1/2"
Weight: Gross:	75 lbs.
Net:	70 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.

CAV-150 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



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.