CLASSÉ AUDIO

CAV-75

MULTI-CHANNEL
POWER AMPLIFIER

CAV-75

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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TABLE OF CONTENTS

UNPACKING & SET-UP

Your Classé CAV-75 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-75 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-75 is located at the front-left 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-75 has one line fuse (external), the rating of which should be as follows:

LINE VOLTAGE	**FUSE RATING**
100 or 120 V.A.C.	5 AMP SLOW BLOW 125 or 250 volts
220 or 240 V.A.C.	3 AMP SLOW BLOW 250 volts

INTERNAL RAIL FUSES:

The CAV-75 is designed with each channel protected by one pair of internal fuses for positive and negative rails (see fig-1 page 7) 3.15 AMP FAST BLOW 125 volts

Mosfet Fuses: 0.75 AMP FAST BLOW 250 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.

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.3a, 3b for typical connections of the CAV-75.

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-75 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 (as marked above the jacks). 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 and BRIDGED modes.

1) Turn OFF the unit and remove all connections, including the AC linecord.

2) Remove top cover with the Allen key supplied.

3) Locate the input board(s) of channels to be switched. (see fig.1 page 7)

4) Locate and set jumpers to the desired operation mode. (see fig.2a, 2b page 8)

5) Replace and secure the top cover.

6) Reconnect all cables. Make sure the input and output connections are according to the operating mode. (see fig.3a&3b page 9)

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.2 page 8) the power amplifier can be turned ON/OFF from a distance (or from another room).

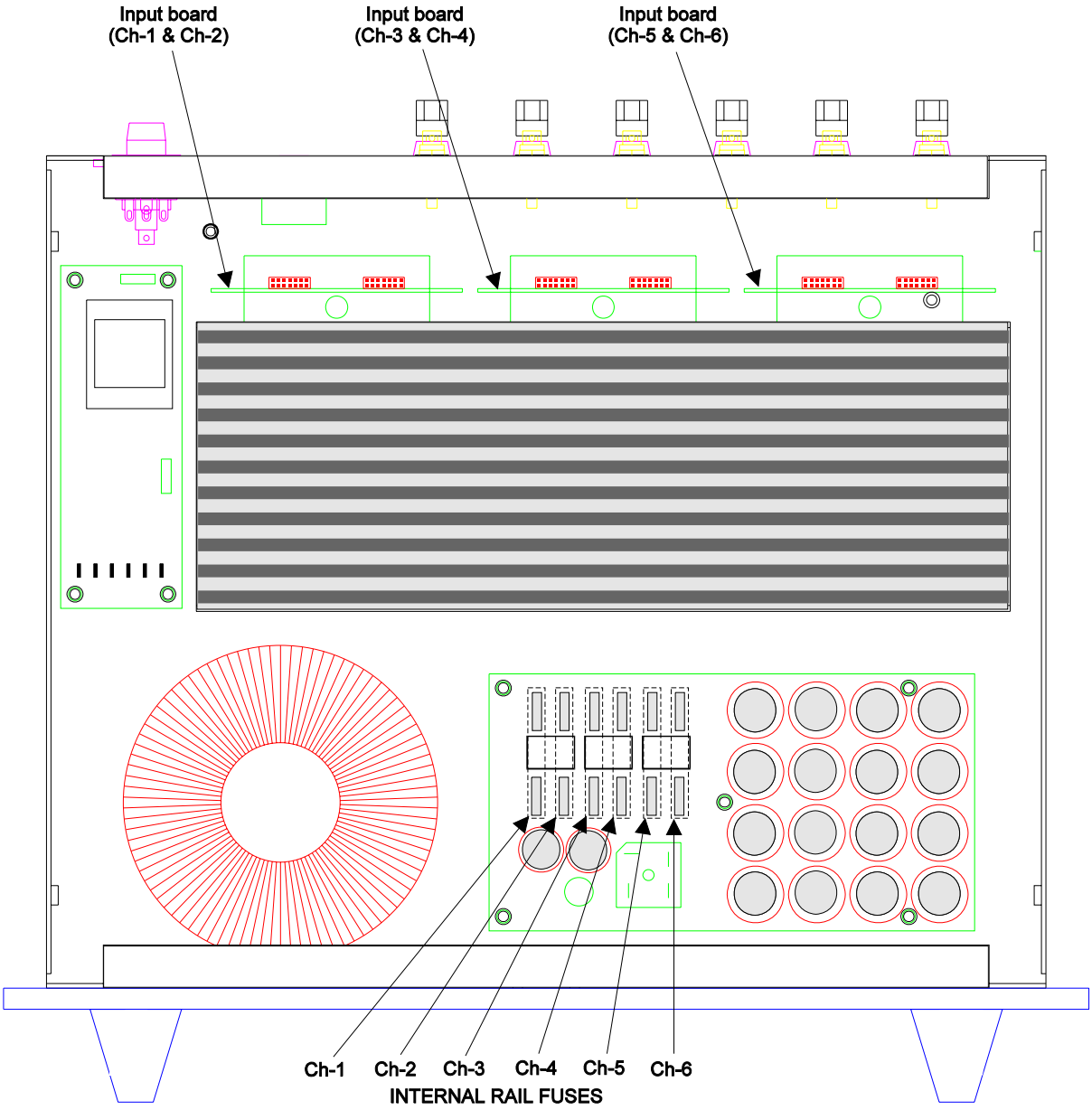


Fig.1 CAV-75 top view

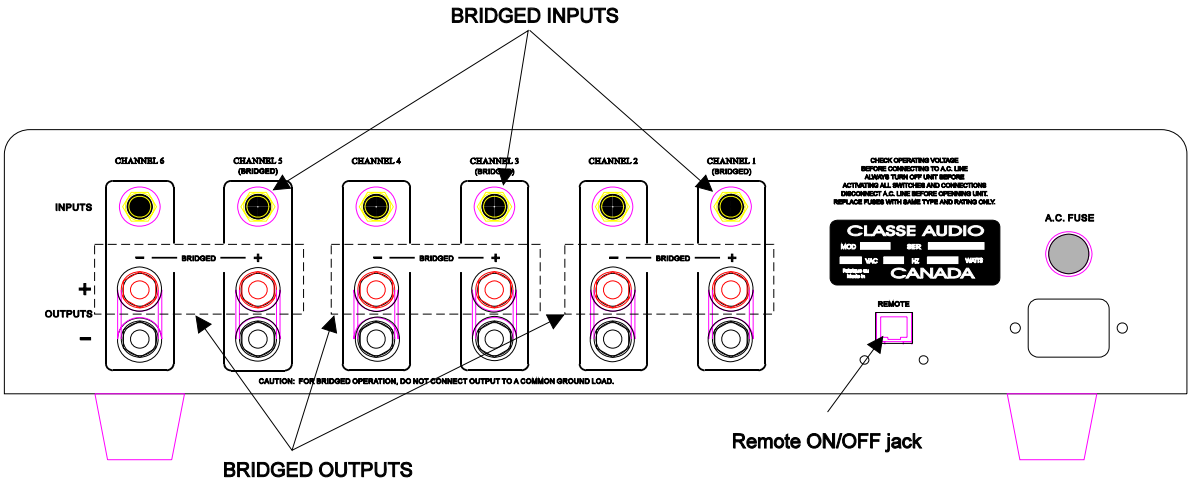


Fig.2 CAV-75 rear view

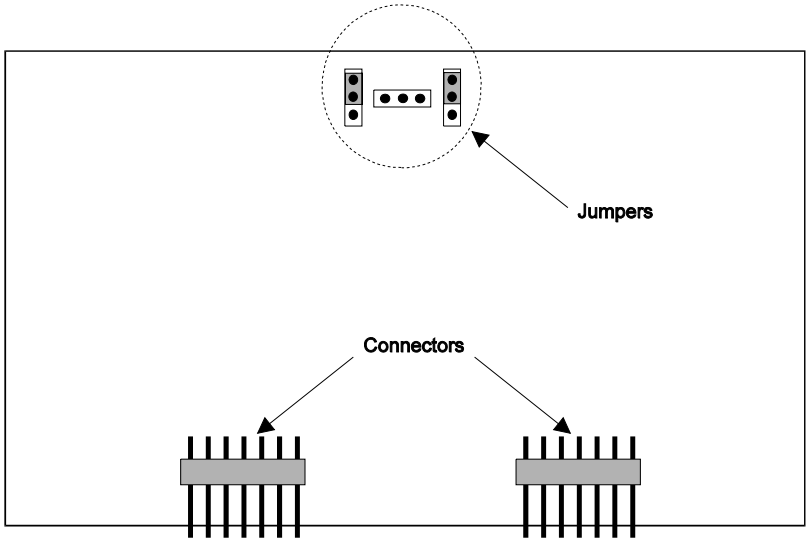


Fig.2a Input board

Fig.2b Jumper settings for normal and bridge operations

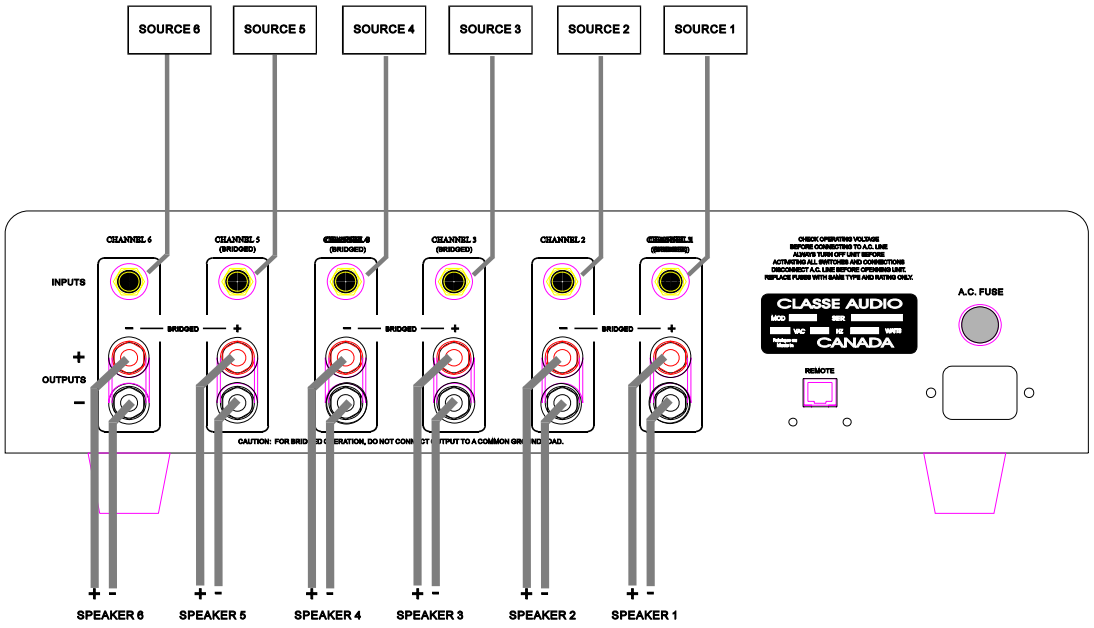
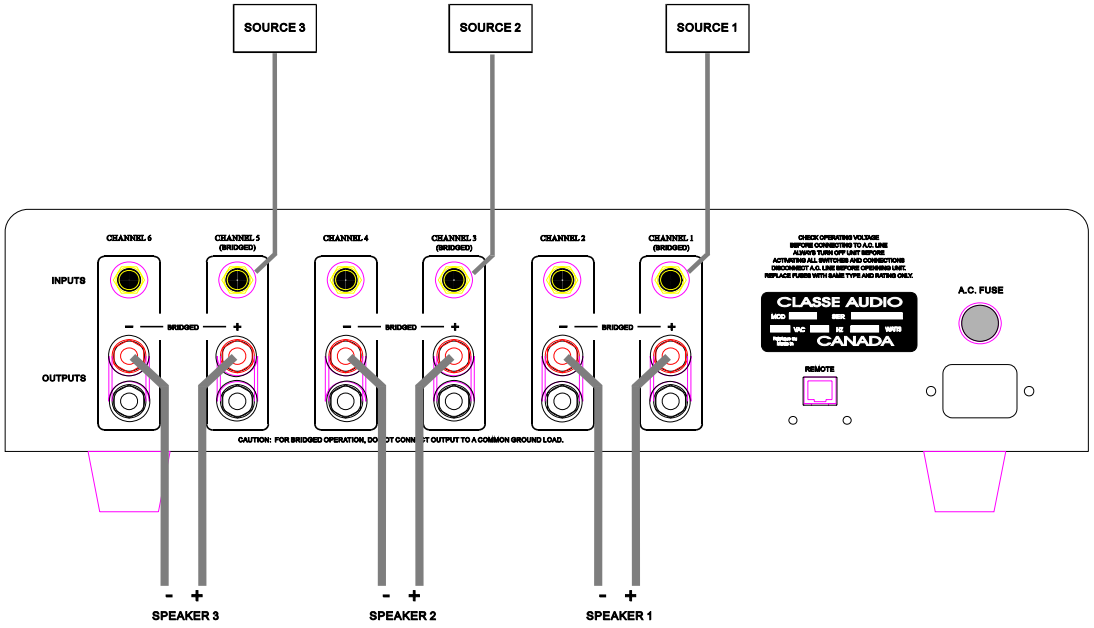


Fig.3a CAV-75 6-CHANNEL configuration connections



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

Fig.3b CAV-75 3-CHANNEL configuration connections

PROTECTION CIRCUIT

The Classé **CAV-75** is equipped with rail fuses to protect the output drivers (see fig.1, page 7) and mosfet fuses to protect the mosfets, which are used as pre-drivers for the output stage of the amplifier. In the event that a short circuit or other problems would occur at the output of the amplifier, either or both of these fuses may blow in an attempt to protect the amplifier.

To return the unit to proper operation, TURN THE UNIT OFF. Make sure that the situation that has triggered the protection circuit has been corrected. **Failing to correct the situation prior to re-starting the unit can result in damaging vital components in the unit.**

Replace mosfet or rail fuses (see page 4 for fuse values) that are damaged with **exactly the same type and value.** Spare fuses for the mosfet and the output section are supplied with the unit and included in the instruction booklet package. **After a careful inspection of all connections and components in the system, re-start the unit. If unit still goes into protection mode, contact your local dealer or Customer Service at the Classé Audio factory---(514) 636 63 85.**

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CLASSÉ CAV-75

MULTI-CHANNEL

6-CHANNEL POWER AMPLIFIER

FEATURES
AND
SPECIFICATIONS SHEET

CAV-75 FEATURES:

6-Channel Power amplifier 75 watts/channel, switching capability for different channel configurations. Custom Classé internal heat sinks, thick curved faceplate with sculpted one piece handles. Available in both Satin Black, and Soft Shadow Silver finishes.

CAV-75 SPECIFICATIONS:

Frequency Response:		20 Hz to 20 KHz =/- 0.1 dB
Sensitivity:		0.85 Volt in for rated output
Input Impedance:		75 Kohms
Output Impedance:		0.15 Ohm
S/N Ratio:		More than 135 dB
THD+N:		0.004%
Gain:		29 dB
Maximum power and Channel configuration		With 8 Ohms load
Six (6) Channels		75 Watts x 6
Five (5) Channels		150 Watts x 1 (bridged) 75 Watts x 4
Four (4) Channels		150 Watts x 2 (bridged) 75 Watts x 2
Three (3) Channels		150 Watts x 3 (bridged)
Power consumption:		75 Watts
Dimensions:	Gross:	10 1/4" x 21" x 19"
	Net:	5 1/2" x 19" x 15"
Weight:	Gross:	45 lbs.
	Net:	40 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.