

Line level Pre Amplifier CAP002

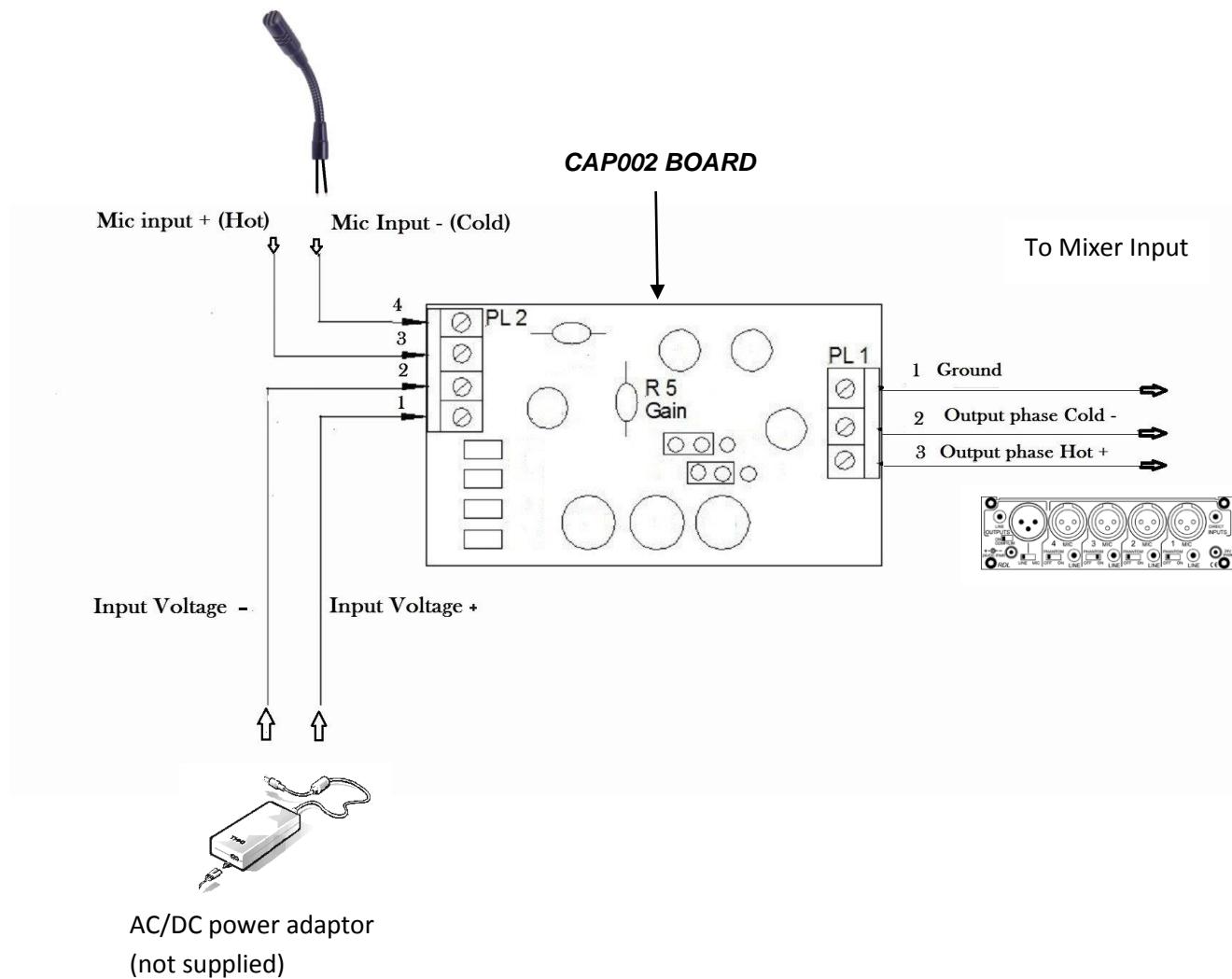
The CAP002 is designed for use with an electret condenser microphone. When connected it will boost the microphone audio output to a level that can be used to connect to a typical auxiliary line level input commonly found on amplifiers / mixers or recorders requiring 0.5 Volts RMS (refer to your external equipment instruction manual).

Power requirements

An external 12V to 24 DC or 24V AC supply with 100mA capacity (not supplied) is required / available from most high street electrical retail outlets. Some DC adaptors are supplied with a plug already attached these will need to be removed. Important that you careful check to ensure correct +/- polarity of the 2 cables when connecting to the CAP002 pin 1 and 2 of PL2 screw terminals.

Connections

Microphone



Microphone input Connections

Connect your microphone to the PL2 screw terminals:

Connect Phase cold (-) to pin 4.

Connect phase hot (+) to pin 3.



Power supply connections

Connect the supply to the PL2 screw terminals:

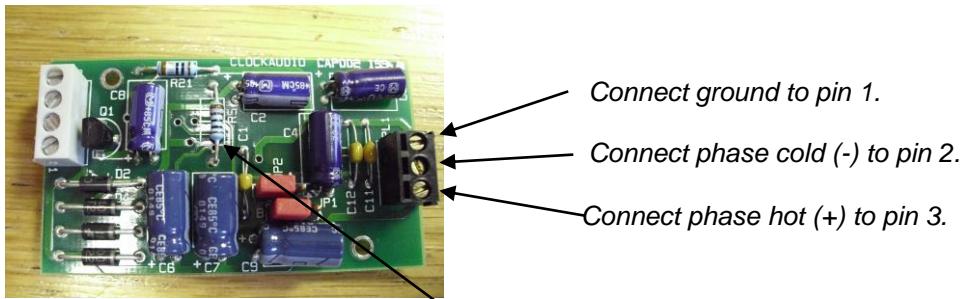
Connect (-) Voltage to pin 2.

Connect (+) Voltage to pin 1.



Audio output / Mixer / Auxiliary amplifier Connections

Connect your mixer input / Audio amplifier input to PL1 screw terminals:



Changing the audio output level (R5)

The audio output level from the CAP002 is preset to give optimal sound level and in most cases will not need to be replaced. However, if you are experiencing any distortion or clipping then the output gain resistor (R5) can be adjusted giving more headroom. Increasing headroom offers a more natural recording sound and allows for transient peaks, however mic gain is compromised:

1K Ohm = Fitted as standard maximum gain / minimum headroom

2K Ohm = +6dB more headroom

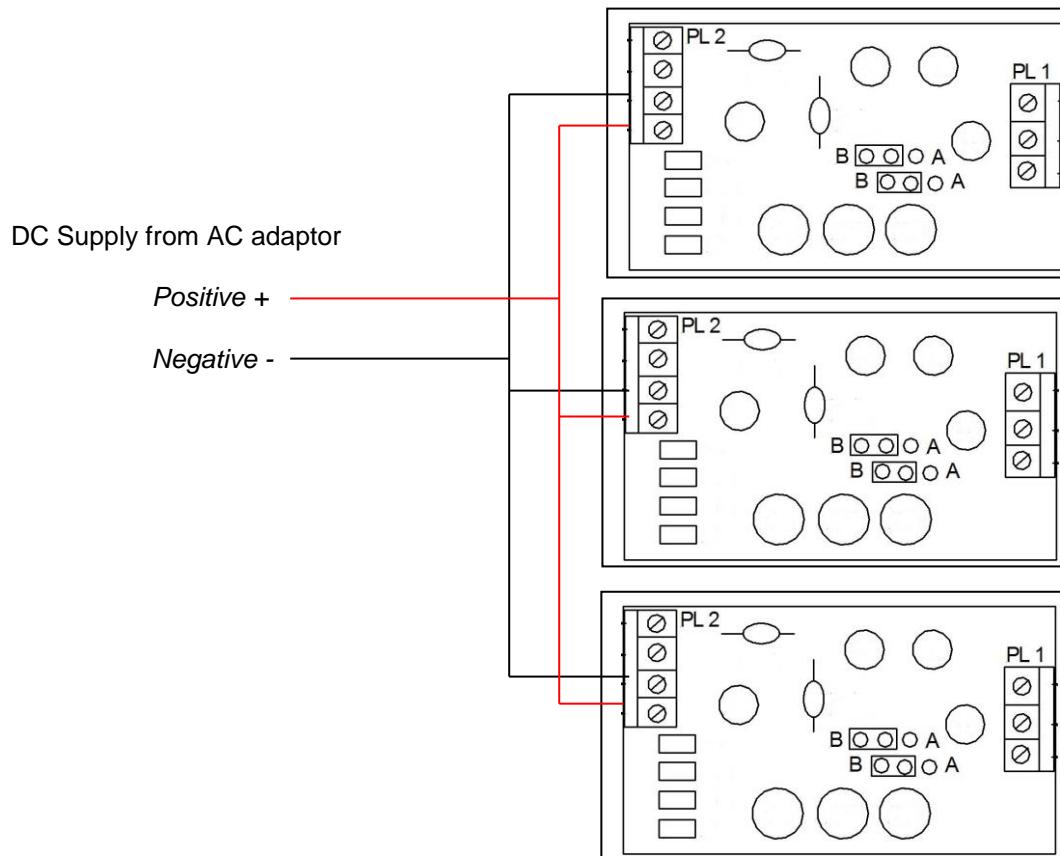
3.9K Ohm = +12dB more headroom.

18.2K Ohm = +18dB more headroom.

100K Ohm will give maximum headroom (microphone level) / minimum gain

Multi power supply connections to CAP002

A single AC power adaptor can be used to power several CAP002 Line amplifiers. Simply parallel connect the wires from your AC adaptor to each of the CAP002 DC + / - power input screw terminals of PL2 making sure of correct polarity. See below diagram showing 3 CAP002 running off a single supply:



The Current taken by each CAP002 is very small approx 5mA. An AC power adaptor with 100mA capability will be able to power up to 20 CAP002 circuits.