

ALCHEMIST

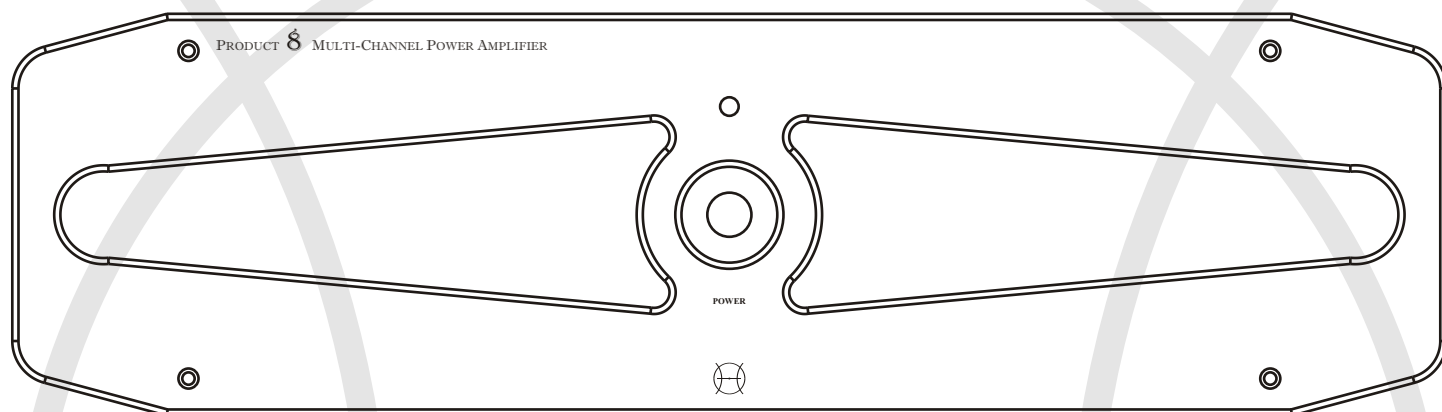
8 P R O D U C T
E I G H T
5 C H A N N E L

I N S T R U C T I O N

M A N U A L

POSITIONING

The Product 8 Multi-Channel Power Amplifier is a class A/B type device, and as such it will need to dissipate a little heat. It should therefore be placed on a flat surface with free space all around. Under no circumstances must the unit become covered as this may result in the unit overheating. It is advised that not to stack the Product 8 Multi-Channel Power Amplifier with other products.



MAINS POWER CONNECTION

The Product 8 Multi-Channel Power Amplifier comes with an IEC mains lead fitted with the relevant plug type for the country of use. If there is any need to change this then follows the relevant instructions for the plug type used.

There is an external replaceable fuse on the rear of the unit: refer to specifications for fuse value. Never replace with a different value.

Be sure that your system is switched off whilst connecting / disconnecting any leads.

SOURCE CONNECTION

Please note that we do not supply interconnect leads as most people like to choose their own. Unbalance (RCA) leads should not be more than 3 metres long, and balance (XLR) leads can be any length.

The Product 8 Multi-Channel Power Amplifier can be used with any model of Audio/Video sound processor with up to 5 channels outputs. The connection can be done in either through unbalance RCA or balanced XLR connection.

LOUDSPEAKER CONNECTION

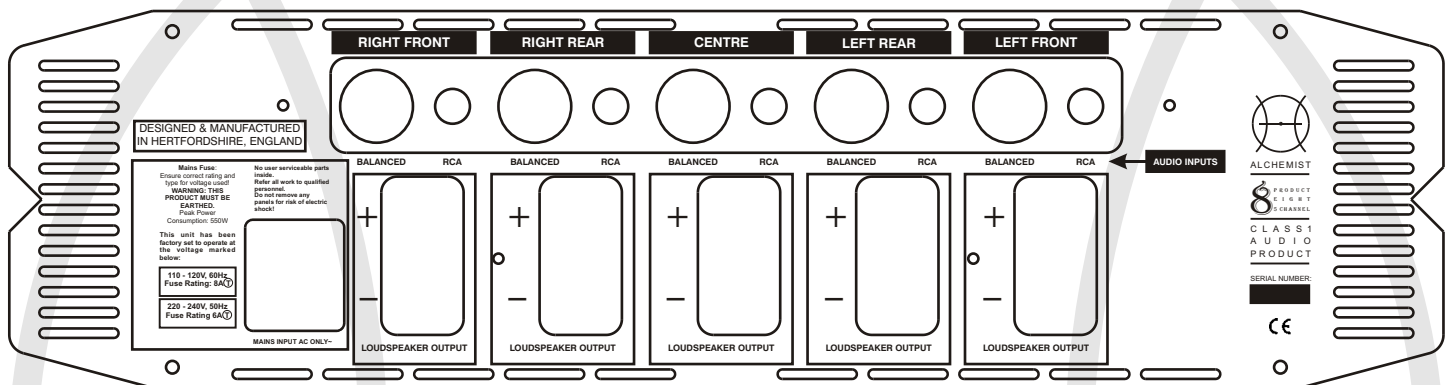
As with all connections ensure that the equipment is switched off before you attempt to connect any cables.

LOUDSPEAKER OUTPUT

The Product 8 Multi-Channel Power Amplifier allow you to connect your loudspeaker cables to your loudspeakers via either a 4mm spade or bare wire type connection. If you are using the bare wire method make sure that all the strands of cable are securely within the binding post before you switch on your amplifier. The Red terminal is for your positive (+) connection and the BLACK terminal is for your negative (-) connection. If you fail to observe this pattern your system may result in an 'out of phase' condition, giving you poor results in sound quality.

LOUDSPEAKER CONNECTION (...cont.)

You have to make sure the audio inputs from your Audio/Video sound processor are connected to the right channel outputs, i.e. the 'Left Front' signal output from your sound processor is connected to the 'Left front' audio input on the Product 8 Multi-Channel Power Amplifier and the 'Left Front' speaker is connected to the 'Left Front' loudspeaker output. Otherwise the wrong signal will feed into the wrong loudspeaker.



LOUDSPEAKER MATCHING

The most common misunderstanding in matching amplifiers with loudspeakers is with power handling.

When amplifiers are given a power rating, this refers to the maximum output. The maximum usable output will usually be reached at about 1 - 2 o'clock on the volume control, leaving enough reserve power to cope with transients and crescendo's. This limit is also dependant on such things as source output levels and loudspeaker sensitivity. If an amplifier is driven beyond this limit it will 'clip' (literally clipping the wave form), resulting in distortion. It is this distortion that usually damages loudspeakers, and not a mis-match in power ratings. If you are in any doubt about the suitability of your amplifier to drive your loudspeakers, please consult your dealer.

GENERAL CARE

Any cleaning of your PRODUCT 8 Multi-Channel Power Amplifier should be done with a clean dry cloth or soft bristle brush. There is no need to polish the gold effects, a simple dry wipe is sufficient. Do not use any solvent or silicone based cleaning solutions as this may result in tarnishing. Remember to replace all of your packaging in the box and re-seal. Keep the box for any future transportation of your product.

SPECIFICATIONS

PRODUCT MULTI-CHANNEL POWER AMPLIFIER

Input Sensitivity (RCA): 1V

Input Sensitivity (XLR): 2.2 V

Output @1kHz into 8 ohms: >150 Watts RMS

Output @1kHz into 4 ohms: >256 Watts RMS

Bridged Output @1kHz into 8 ohms: >409 Watts RMS

Frequency Response @3V o/p: -3dB @ 155kHz

Distortion @15V o/p, 1kHz: <0.05% THD

Distortion @15V o/p, 10kHz: <0.1% THD

Residual Noise: Typically 70microV

Input Impedance: 8k ohms unbalanced, 25k ohms balanced

Peak Power Consumption: 550W

External Fuse Rating: 8A@110-120V 6A@220-240V

Dimensions (W x H x D): 470mm x 360mm x 140mm

Weight (Packed): 25Kg

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In the unlikely event that we should discover something that would improve one of our products, we reserve the right to change specifications without prior notice

All products made by Alchemist Products Ltd. UK.