

ALCHEMIST

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**S** PRODUCT  
EIGHT  
INTEGRATED

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INSTRUCTION

M A N U A L

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# POSITIONING

The Product 8 Integrated 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.

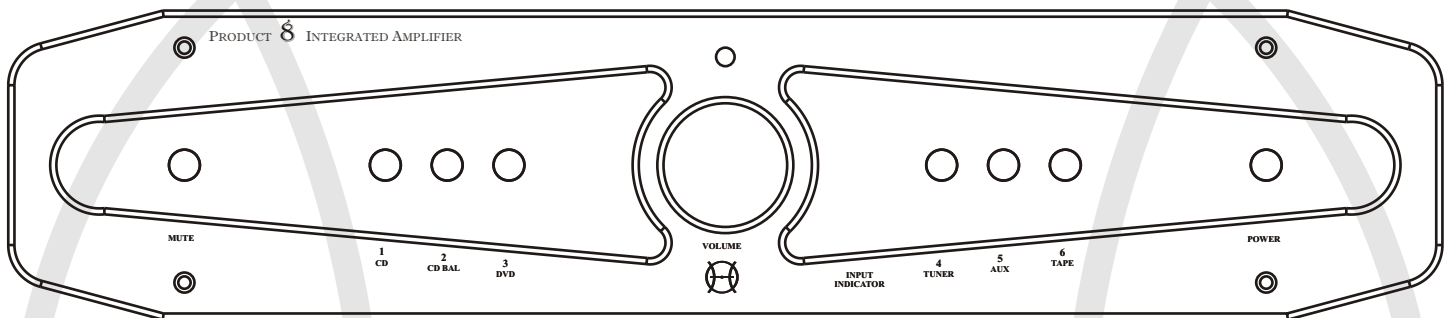
# MAINS POWER CONNECTION

The Product 8 Integrated 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.



# CONTROLS

## FASCIA CONTROLS

The controls on the fascia of the Product 8 Integrated Amplifier are: VOLUME CONTROL, POWER, MUTE and 6 INPUTS SELECTORS with a power indicator above the volume control.

All functions are duplicated on the Product 8 Integrated Amplifier remote handset (except Power).

**VOLUME:** Use this control to adjust to your required listening level. You will probably find that the maximum usable volume will be attained at approximately two o'clock position on the volume control (See Loudspeaker Matching)

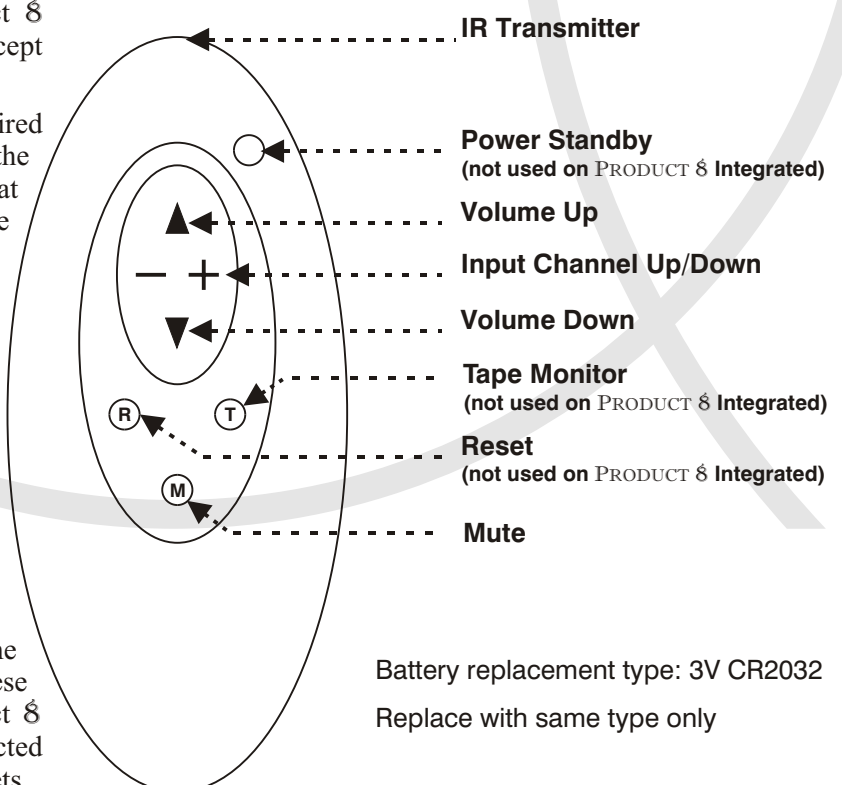
**POWER:** This will allow the Product 8 Integrated Amplifier to be either fully powered up or completely switched off. When the unit is first powered up it will revert to the volume to zero and select input 1. The mute function will also be set.

**MUTE:** Once the Product 8 Integrated Amplifier has been initially switched and powered up, this function will allow you to toggle between; normal listening and mute.

**INPUTS SELECTORS:** These determine the source component to be listened to. These selections are also controlled by the Product 8 Integrated Amplifier remote handset. The selected input will also be routed to the tape output sockets.

## REMOTE HANDSET

The Product 8 Integrated Amplifier comes supplied with a full function handset. It requires one CR2032 3V battery (supplied) to operate and the functions are as follows:



Battery replacement type: 3V CR2032

Replace with same type only

# SOURCE CONNECTIONS

Be sure that your amplifier is switched off when connecting or disconnecting any leads.

As the phono sockets on the Product 8 Integrated Amplifier are gold plated, we recommend that, where possible, you use gold phono plugs on your interconnect leads. Gold to gold connections will ensure that a good electrical contact is maintained without the need for periodic cleaning.

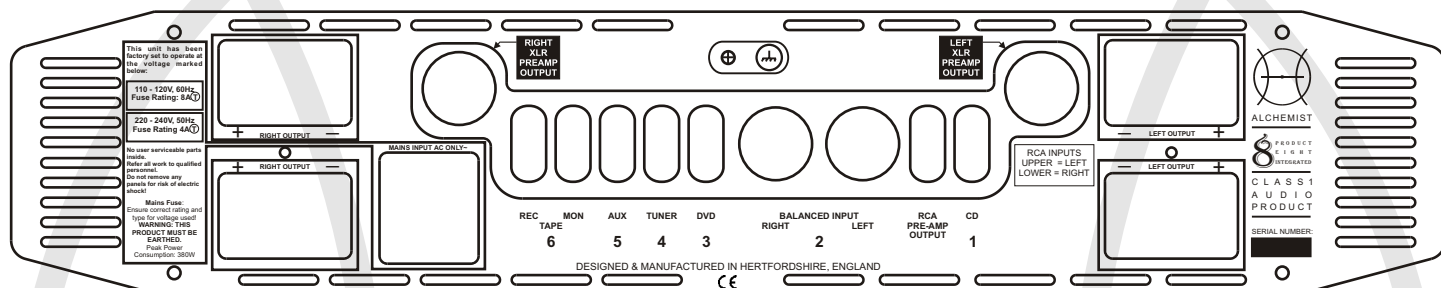
Take care that your input leads are correctly oriented for Right and Left channels. RED is usually Right and WHITE or BLACK is usually Left.

The Product 8 Integrated Amplifier has six inputs, 1-CD, 2-CD-BAL, 3-DVD, 4-TUNER, 5-AUX and 6-TAPE.

There are three outputs, TAPE and two PRE-OUT connections (one XLR and one RCA sockets).

The PRE-OUT facility has been provided so that you can follow a logical upgrade in the future, following such a path:

- 1 Product 8 Integrated
- 2 Product 8 Integrated + Product 8 Power (Utilizing both the power amp and the power section of the Product 8 Integrated in bi-amp mode)
- 3 Product 8 Power + Product 8 Pre.



- 4 Product 8 Power x2 + Product 8 Pre (2 Product 8 Power amps in bi-amp mode)

When you have your Product 8 Power amp, connect PRE-OUT to Audio Input on the Power amp.

When you have your second Product 8 Power amp, connect PRE-OUT Left to Power amp1 and PRE-OUT Right to Power amp2. *NOTE:* As all power amps have differing input sensitivities, it is generally NOT recommended to use any other model of power amp.

If you are using a turntable via a suitable phono stage it may be necessary to earth this phono stage to the Product 8 Integrated. This can be done using the earth terminal supplied. If, when listening to your turntable you can hear a slight buzzing noise, you probably have an earth loop. You should therefore disconnect the Earth lead. If the buzzing persists, contact your dealer.

# LOUDSPEAKER CONNECTIONS

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

## LOUDSPEAKER OUTPUT

The Product 8 Integrated Amplifier has a bi-wiring facility and will allow you to connect your loudspeaker cables to your loudspeakers via either a 4mm banana plug, 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 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.

Please note that, as with all hi-fi products, there are no user-serviceable parts inside.

Please refer all servicing work to a qualified engineer.

## GENERAL CARE

Any cleaning of your PRODUCT 8 integrated 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 8 INTEGRATED AMPLIFIER

**Output @1kHz into 8 ohms: 100 Watts (Class A/B)**

**Input Sensitivity: 390mV**

**Frequency Response @ 3V: -3dB @ 50KHz**

**Residual Noise (Max vol): <2mV**

**Total Harmonic Distortion: <0.5% THD**

**Power Consumption (Nominal): 100 Watts**

**Power Consumption (Peak): 370 Watts**

**External Fuse Rating: 8A@110-120V 4A@220-240V**

**Dimensions ( W x H x D): 470mm x 360mm x 105mm**

**Weight (Packed): 20Kg**

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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