



# SPM 5000 MK II POWER AMPLIFIER MANUAL





Chord Electronics Limited

## **OPERATING INSTRUCTIONS**

### **INSTALLATION**

Your amplifier should be positioned to ensure a free flow of air over the rear heat sink and through the upper and lower grilles. When driven continuously at well above average listening levels, the temperature on the heat sink may exceed 50°C. This is not a fault, but an indication of the need for adequate ventilation.

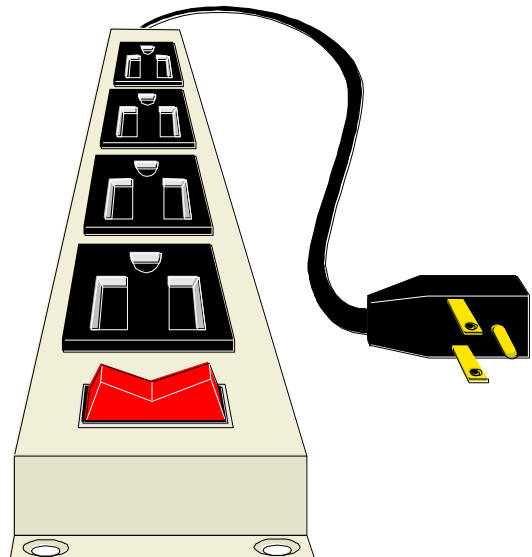
Please ensure that the IEC mains lead is correctly terminated.

UK/EUROPE	Brown =	LIVE	= Black	USA/CANADA
	Blue =	NEUTRAL	= White	
	Yellow/Green =	EARTH	= Green	

**THE SPM 5000 MUST BE EARTHED AT ALL TIMES VIA ITS OWN MAINS LEAD. FAILURE TO DO THIS MAY BE HAZARDOUS.**

CE This unit complies with EN 50081-1 & IEC 801/2

**It has come to light that, in some European countries a hum may occur if Pre and Power Amplifiers are connected to mains wall sockets which do not have an earth. Please ensure that, if this is the case, the pre and power amps are connected via a multi-way mains block which contains an earth point at each socket outlet. This is to ensure that the chassis metalwork of each item is connected together and Chord Electronics Limited firmly recommend that an earthing method for the building is implemented.**



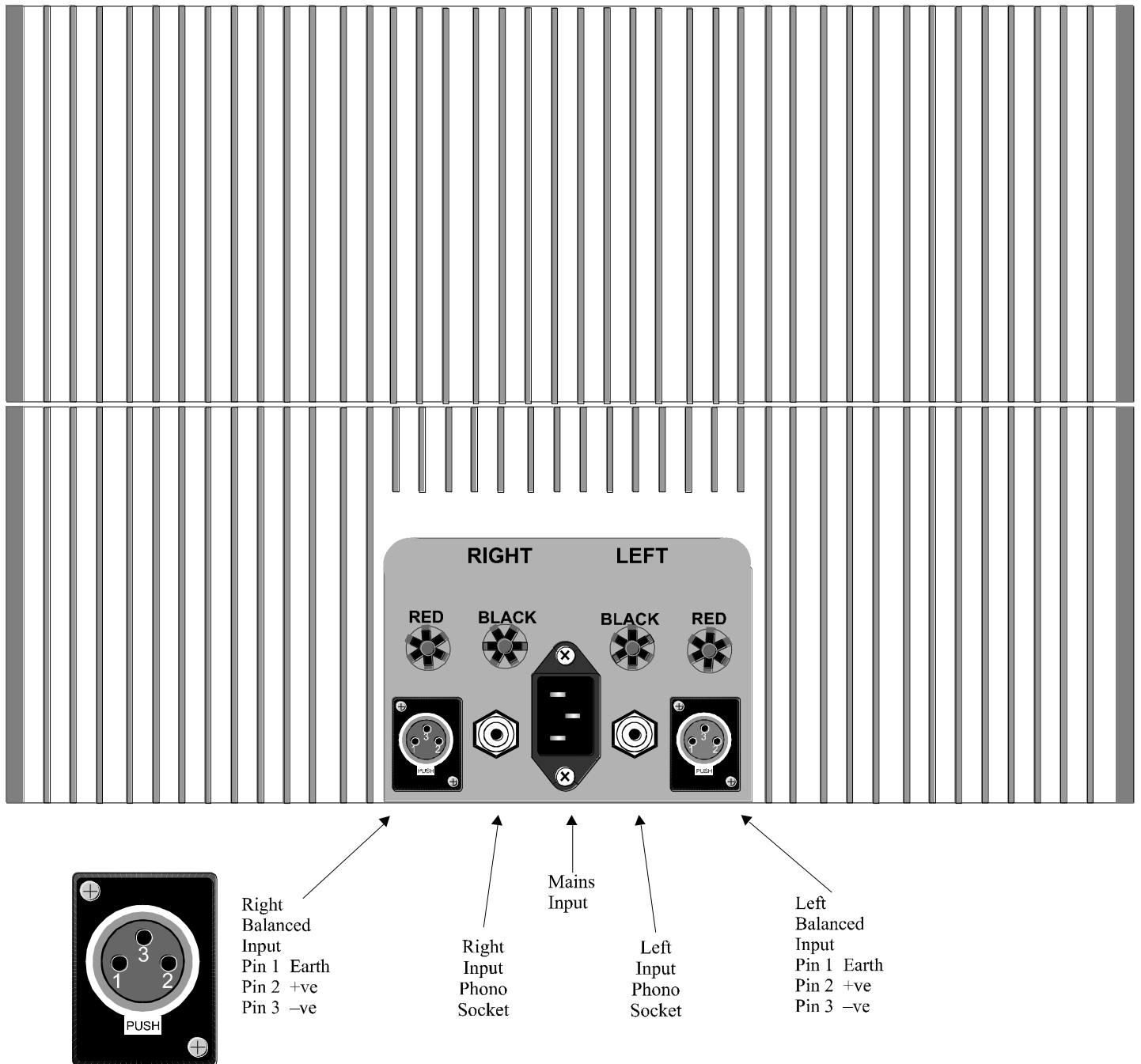
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## REAR PANEL

The two female XLRs are pre-amplifier inputs. Also, phono input sockets are available immediately outboard of the IEC mains plug. Please connect these last, with the amplifier switched off.



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## OPERATION

When the amplifier is connected to the mains the LED above the power switch will indicate red (standby). When switched on, this LED will change to illuminate green (operational).

In the event of a major overload or a short circuit across the output of any channel, the green "power on" LED will indicate trip by fading and immediately re-illuminating to red standby mode. The amplifier will shut down automatically and it should then be switched off. When the fault condition has been rectified, the amplifier can be switched on and will power up as normal. A minimum period of one minute must be allowed to elapse between switching off and switching on again. This is to allow the power supply protection circuitry to re-set itself.

The Left and Right channel LED's illuminate to indicate the onset of clipping. They operate sequentially and progress from 3dB below clipping to full clip when the red LED is displayed.

There are no user serviceable parts in your SPM 5000. It should only be serviced by Chord Electronics Limited or their expressly approved Service Agents.

## CARE AND CLEANING

The SPM 5000 requires no special care other than common-sense. Spray window cleaner (clear type) may be used (if first sprayed on to a soft cloth) to remove surface blemishes such as finger marks from the metal casing or the piano black finished wooden side cheeks. Never spray directly on to the amplifier and never use abrasive cleaning materials, use only a lint free soft cloth as described.

## SERVICE INFORMATION

**WARNING** - The power supply components within this amplifier are designed to be operated at lethal voltages and energy levels. Circuit designs that embody these components conform with applicable safety requirements. Precautions must be taken to prevent accidental contact with power-line potentials. Do not connect grounded test equipment.

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SPECIFICATIONS	SPM 5000 MK II Enhanced 2 Channel Power Amplifier
OUTPUT POWER	2 x 560W rms per channel @ 0.05% distortion into 8 ohms 2 x 1020W rms per channel @ 0.05% distortion into 4 ohms. Thermal limitation only, 1 channel driven.
DYNAMIC HEADROOM	650W rms per channel into 8 ohms, 1100W rms per channel into 4 ohms. - 1 KHz, 20 cycles on, 480 cycles off. Peak pulses 8 milliseconds burst 90V peak (the equivalent of over 1600W per channel peak into 4 ohms)
FREQUENCY RESPONSE (8 OHMS)	-1dB, 0.2Hz to 46KHz -3dB, 0.1Hz to 77KHz
FREQUENCY RESPONSE (4 OHMS)	-1dB, 0.2Hz to 39KHz -3dB, 0.1Hz to 75KHz
SIGNAL TO NOISE RATIO	Better than -103dB, 'A' weighted two thirds power.
CHANNEL SEPARATION	Better than 95dB.
PRE-AMPLIFIER INPUT CONNECTION	2 x gold-plated, fully balanced XLR sockets. 2 x gold-plated custom phono sockets, unbalanced.
INPUT IMPEDANCE	100kohms. Unbalanced or Balanced.
INPUT CAPACITANCE	<30pf.
OUTPUT IMPEDANCE	0.01 ohms
OUTPUT INDUCTANCE	1.6mH
OUTPUT CONNECTIONS	4 x Gold plated WBT binding posts
SLEW RATE	70V per mS, 1KHz 20V square wave
GAIN	30dB.
STABILITY	Unconditional
DIMENSIONS (Standard)	480mm (w) x 400mm (d) x 310mm (h)
WEIGHT	45Kg

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