



Model: SP100A

Date of Manufacture: 1977

Product Type: Stereo Preamplifier

Specifications:

Input sensitivities for rated output of 1.2V RMS into 10k Ω

Auxiliary and tape inputs	80mV RMS
Magnetic phono 1.....	2.5mV RMS @ 1kHz
Magnetic phono 2.....	2.6mV RMS @ 1kHz variable

Input overload

Auxiliary and tape inputs	4.0V RMS
Magnetic phono 1 and 2.....	110mV RMS

Rated output	1.2V RMS (No. 1 output)
.....	0-1.2V RMS (No. 2 output variable)
Maximum output capability	7V RMS

Frequency response over all amp and headphone amp

Auxiliary input	20Hz-20kHz \pm 0.3dB
Phono input (R.I.A.A. corrected).....	20Hz-20kHz \pm 0.5dB

Distortion over all amp at rated output

Total harmonic distortion.....	0.02% (typically 0.009% at 1kHz)
Intermodulation distortion.....	0.005% (S.M.P.T.E. 50Hz or 6kHz @ 4:1)

Noise measured on 20Hz to 20kHz bandwidth

Minimum volume.....	-90dB Lin reference rated output
Maximum volume auxiliary.....	-80dB Lin reference rated output
Maximum volume phono	-60dB Lin reference rated output
Maximum volume phono	-76dB Lin reference 10mV input

Tone controls

Bass	+15dB -18dB at 30Hz
Midrange	+9dB -9dB at 900Hz
Treble	+15dB -12dB at 15kHz

Loudness shelving type	+7dB at 50Hz
.....	+7dB at 15kHz

Filters

Low 6dB per octave from 40Hz	-6dB at 20Hz -12dB at 10Hz
High 6dB per octave from 2kHz	-6dB at 4kHz -12dB at 8kHz

Total semiconductor compliment

12 IC's (Highspeed low noise, unity gain at 38MHz and wide bandwidth)	8 Diodes
16 Transistors	8 Zener Diodes
	1 Bridge Rectifier

Mains voltage	230/115 volts AC 50-60Hz
----------------------------	--------------------------

Front panel	19 inch rack mount
--------------------------	--------------------

Inputs/Outputs	R.C.A. Cinch connectors plus DIN for tape 1 and 2
-----------------------------	---

Schematic diagram

Product manual