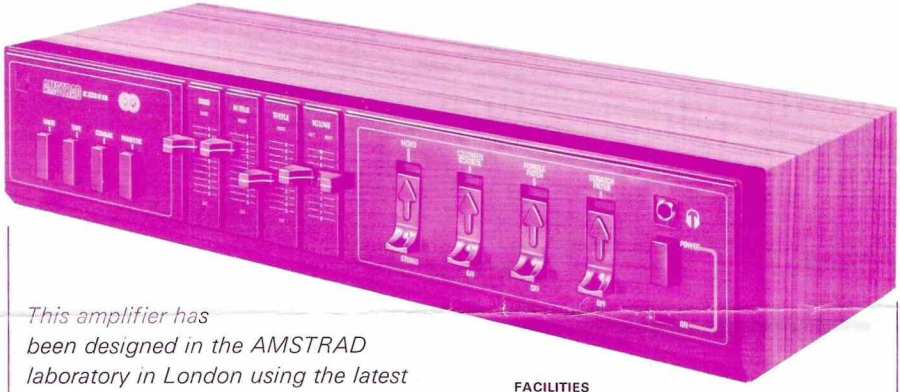
The brilliant AMSTRAD

IC 2000 Mk III STEREO AMPLIFIER



This amplifier has been designed in the AMSTRAD laboratory in London using the latest circuit techniques. Its performance has been improved in many respects, while retaining all the excellent features of the previous version. The amplifier offers the facilities for operation on magnetic or ceramic type cartridges, tape recording or replay, and radio. This new Mk III amplifier now has a greater power output for greater clarity of the tonal range, also improved is the hum and noise and channel separation figures. A new facility now offered with the Mk III is four-speaker operation giving surround-sound listening; the amplifier is basically designed for stereo listening on two high quality speakers.

In this IC 2000 Mk III amplifier, a pleasing exterior design has been combined with powerful high fidelity circuitry to give you an amplifier which will give you greatest satisfaction in your listening pleasure.

FACILITIES

Input Select Button. Using these buttons you may select the input you require from pickup (magnetic or ceramic) tape or radio tuner.

Bass and Treble Controls. These controls enable you to adjust the tone to suit the type of loudspeakers you are using and to adjust the sound to suit the acoustics of your home. A large range of control on these two slider knobs has been provided to cater for all listening conditions.

Middle Control. AMSTRAD have provided a 'Middle' control on the IC 2000 Mk III to enable you to adjust the tonal brilliance of the middle range of frequencies in the sound you are listening to.

Volume Controls. Two separate Volume Controls have been provided on this amplifier to enable you to adjust the sound level of the left and right channels independently.

Mono/Stereo Switch. Operating this switch will give Monophonic output in the speakers.

Loudness Switch. This switch brings into operation a special circuit in the amplifier which reduces the overall loudness whilst giving boost of low Bass and high Treble frequencies.

Scratch Filter. This switch can be used to reduce surface noise and scratch effects on old records. It will also help to reduce hiss or whistles when a radio tuner is being used. This control is specially designed to preserve the reproduction quality of the amplifier.

Rumble Filter. This may be used if rumble is produced by the type of turntable you are using. It may be necessary to use this control if maximum Bass boost and Loudness controls are in operation together, as the overall bass boost capability of this amplifier is so good that any imperfections in the turntable may be accentuated.

Four Speaker Listening. If you require the amplifier to be used in the surround-sound mode, you will require a further two loudspeakers; these can either be used in the same area as your original speakers giving stereo from four speakers, or you can use the other speakers in another room so as to have stereo reproduction in two places at once.

All the speakers must be of 8 Ohms nominal impedance, and must be able to handle a continuous power of 25 Watts R.M.S. each

ANCILLARY EQUIPMENT

The AMSTRAD IC 2000 Mk III High Fidelity Amplifier may be used with all types of Magnetic Cartridge, and with Ceramic cartridges of medium output. The signal levels on the various inputs should be kept as follows:–

Magnetic Cartridge. 1·5 mV or greater, use magnetic input socket.

Ceramic Cartridge. 50–300 mV input levels are acceptable on this input; use ceramic input socket.

Crystal Cartridge. Although reduced performance will be obtained from a crystal cartridge, it may be used if necessary by plugging into the ceramic input socket.

Tape Recorder. Any tape recorder having an output level of between 50 mV and 300 mV may be used with this amplifier. The amplifier will also supply an output back to the tape recorder for recording purposes of approximately 60 mV, dependent on loading. This output is independent of tone control and volume control settings.

Radio Tuner. Any A.M. radio tuner or V.H.F./F.M. radio tuner with an output level between 50 mV and 300 mV may be used with this amplifier. The AMSTRAD MULTIPLEX 3000 STEREO F.M. TUNER is recommended for use with the IC 2000 Mk III amplifier.

Speakers. The Amstrad Acoustra 2500 high fidelity loudspeakers are particularly recommended for use with this amplifier. *Please note* the speakers required for use with this unit must have the following specification. 25 Watts R.M.S. handling and *not less* than 8 ohms impedance. A lesser quality pair of speakers may be used in the other two outputs for surround-sound listening.

Headphones. The amplifier has been designed to feed low impedance headphones of nominal impedance 4–16 Ohms.

TECHNICAL SPECIFICATION

Power Output. 25 Watts per channel R.M.S. into 8 Ohm loads with both channels fully driven – Stereo mode.

Recommended Loads. Speakers: 8 Ohms for full performance. 3 Ohm or 4 Ohm speakers must not be used under any circumstances. Headphones: 4–16 Ohms.

Frequency Response.
15 Hz to 30 KHz ± 3dB
20 Hz to 20 KHz ± 2bB

T.H. Distortion. Less than 0·1% at 1 KHz at full rated output – Stereo mode.

Tone Controls.
Bass: ± 20dB at 40 Hz
± 12dB at 100 Hz
Middle: ± 7dB at 1 KHz
± 1dB at 100 Hz and 10 KHz
Treble: ± 20dB at 20 KHz
± 15dB at 10 KHz

Input Sensitivities.
Magnetic: 3·0 mV – 47 KΩ
Ceramic: 55 mV (Velocity loaded)
Tape: 70 mV – 150 KΩ
Radio: 70 mV – 150 KΩ

Crosstalk. Better than 60 dB on any input, with 1 channel driven to full output.

R.I.A.A. Magnetic Compensation within ± 1dB of B.S. 1928 response.

Magnetic Input Overload Factor. 30dB.

Filters. Rumble: ± 26dB at 20 Hz
Scratch: ± 6dB at 20 KHz

Loudness Control. –16dB at 1 KHz; 0dB at 50 Hz and 20 KHz, with volume controls at mid position.

Signal to Noise Ratio. Better than 60dB on any input, with volume controls at maximum and tone controls level – Stereo mode.

Tape Recording Output. 60 mV from 150 K Ω source impedance.

Speaker Operation. Two stereo speakers may be plugged into the stereo outlet sockets. Two additional speakers may be plugged into the Quadrosound sockets if required. This will give you Stereo operation on 4 speakers in your room. Alternatively Quadro-sound extension speakers can be used to give stereo in another room.

Mains Supply.
Nominal: 240 V a.c. 50 Hz 100 Watts
Minimum: 200 V a.c. 50 Hz

Fuses. 1 amp quick blow, 20 mm.

Styling. Teak effect cabinet, affixed to black fascia with black knobs and function buttons.

Size: 17½" x 6⅝" x 3⅝"

Weight: 10¼ lbs.

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