

THE  
SUPERB

# AMSTRAD

## 5000 TUNER AMPLIFIER



This 5000 TUNER-AMPLIFIER from AMSTRAD represents another excellent design from our London laboratories and produced at our London factory. Its features cover virtually any possible requirement, from high power output to good input sensitivity. The power amplifiers will supply a total of 100 Watts of true low distortion high quality sound (25 Watts R.M.S. per channel) into 8 Ohm speakers. The amplifier section is also provided with rumble, scratch and loudness filters, together with separate slider volume controls and bass, middle and treble controls. All the three important wavebands, F.M. Medium and Long waves have been included on this set, together with easy single-button switching between other inputs and any waveband. A rear-mounted hinged ferrite rod aerial is used on Medium and Long waves which can be swung out from the set to give best reception. Some of the latest components are used in this set, for example the stereo beacon lamp is a light-emitting diode which is guaranteed to last for more than 50 years; and the five integrated circuits contain the equivalent of over 270 transistors. The tuning meter takes the guesswork out of tuning into stations on the F.M. waveband, and the automatic frequency control holds the station correctly in tune. The muting circuit stops annoying noises between F.M. stations whilst tuning, but can be switched off if you wish to listen for weak or long distance stations. This AMSTRAD 5000 TUNER-AMPLIFIER employs a black anodised brushed grain extruded fascia, with a sheerline teak finished cabinet. It has been designed, not only for impeccable sound quality, but also with a modern smart styling that will blend in easily with the furniture in your home.

### SPECIAL FEATURES

- ▶ 1. 3 wavebands, with F.M.-V.H.F., Medium wave and Long waves.
- ▶ 2. Inbuilt Phase Locked Loop Stereo Multiplex decoder.
- ▶ 3. 100 Watts output, (25 Watts R.M.S. per channel power output into 8 Ohms).
- ▶ 4. Light-activated concealed readout linear coloured radio scales.
- ▶ 5. L.E.D. Gallium Arsenide Phosphide stereo beacon light.
- ▶ 6. Slider bass control.
- ▶ 7. Slider middle control.
- ▶ 8. Slider treble control.
- ▶ 9. Automatic tracking loudness control switch.
- ▶ 10. Active rumble filter switch.
- ▶ 11. Scratch filter switch.
- ▶ 12. Mono/stereo switch.
- ▶ 13. Stereo headphone outlet socket.
- ▶ 14. Automatic speaker muting on 'phones.
- ▶ 15. F.M. tuning meter.
- ▶ 16. A.F.C. switch.
- ▶ 17. Inter-station noise muting switch.
- ▶ 18. Magnetic cartridge input socket.
- ▶ 19. Ceramic cartridge input socket.
- ▶ 20. Tape recorder input and output socket.
- ▶ 21. 90° Anti-null adjustable A.M. Ferrite Aerial.
- ▶ 22. Speaker outlets for an extra pair of stereo speakers.
- ▶ 23. Fused power protection for each channel.

## ANCILLARY EQUIPMENT

The AMSTRAD 5000 TUNER 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 500 mV and 3.0 V 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.

**Speakers.** The AMSTRAD ACOUSTRA 2500 high fidelity loudspeakers are particularly recommended for use with this amplifier. If required, speakers with a poorer frequency response can be used on the two *QUADROSOUND* outputs, as restricted bass response does not degrade the surround-sound performance greatly. All speakers, on both Stereo and *QUADROSOUND* outputs, must have a nominal impedance of 8 Ohms or greater, and must have a continuous power rating of 25 Watts R.M.S. each. 3 Ohm or 4 Ohm loudspeakers must *not* be used with this amplifier.

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

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### TECHNICAL SPECIFICATION

#### TUNER SECTION

F.M. Coverage: 88–102 MHz  
F.M. Sensitivity: 2 $\mu$ V  
F.M. Aerial input: 75 $\Omega$  unbalanced co-axial  
Stereo separation: Better than 34dB at 1 KHz  
T.H. Distortion: 0.5%  
A.M. Coverage: M.W. 525–1600 KHz  
L.W. 155–270 KHz  
A.M. Aerial: Hinged Ferrite Rod.

#### AMPLIFIER SECTION

**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  $\pm$ 3dB  
20 Hz to 20 KHz  $\pm$ 2dB

**T.H. Distortion.** Less than 0.1% at 1 KHz at full rated output – Stereo mode.

#### Tone Controls

Bass:  $\pm$ 15dB at 40 Hz  
 $\pm$ 10dB at 100 Hz  
Middle:  $\pm$  7dB at 1 KHz  
 $\pm$  1dB at 100 Hz and 10 KHz  
Treble:  $\pm$ 20dB at 20 KHz  
 $\pm$ 15dB at 10 KHz

#### Input Sensitivities

Magnetic: 3.0 mV–47 K $\Omega$   
Ceramic: 55 mV (Velocity loaded)  
Tape: 700 mV–150 K $\Omega$

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

**R.I.A.A. Magnetic Compensation** within  $\pm$ 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 $\Omega$  source impedance.

**Quadrosound Operation.** 4 outputs with automatic Stereo/Quadrosound switching on connection of *Quadrosound* speakers.

**Mains Supply.** Nominal: 240 V a.c., 50 Hz, 120 Watts  
**Fuses.** 1 amp quick blow, 20 mm.

**Styling.** Teak cabinet, affixed to black anodised brushed extruded fascia, silver slider knobs and push buttons, and chrome finish, toggle switches.

**Size** 23 $\frac{3}{8}$ " x 8 $\frac{3}{8}$ " x 3 $\frac{3}{8}$ "

**Weight** 14 lbs.

Made in England by

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