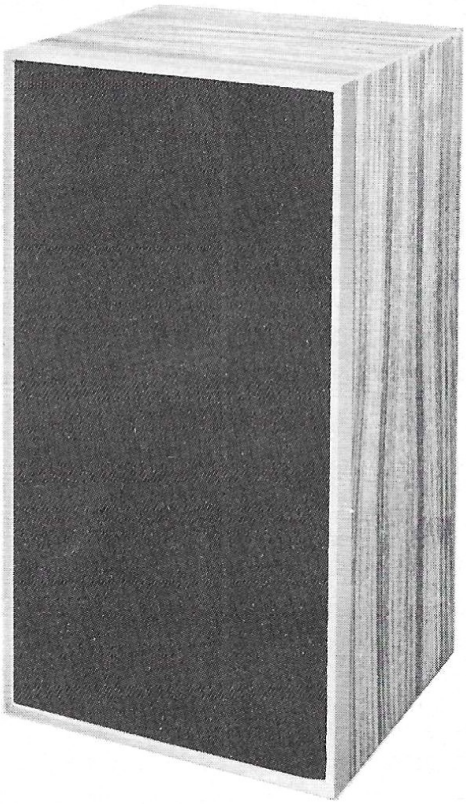
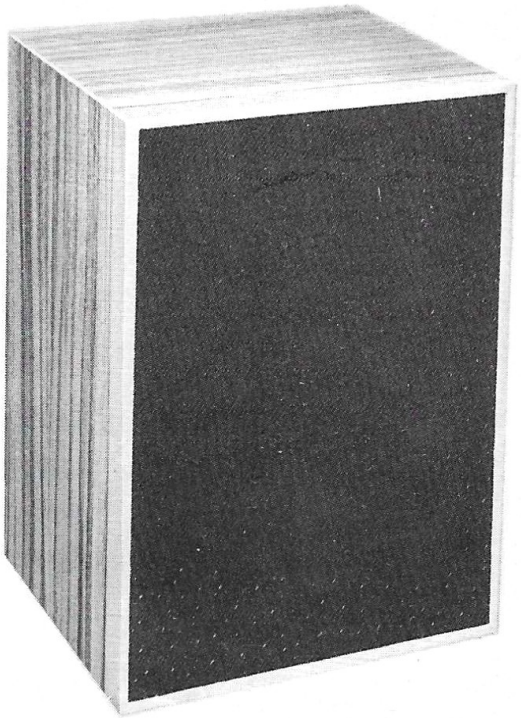
AMSTRAD

ACOUSTRA RANGE

OF HIGH FIDELITY LOUDSPEAKER SYSTEMS



THE AMSTRAD
ACOUSTRA 2500



THE AMSTRAD
ACOUSTRA 1500

Introducing the ACOUSTRA 1500 and ACOUSTRA 2500 High Fidelity Loudspeaker Systems.

These speakers have been designed by AMSTRAD engineers to give you true high fidelity reproduction combined with modern compact styling. They are suitable for both horizontal and vertical mounting, and have been designed for both floor standing and bookshelf mounting positions. The cabinets of both types of speaker system are teak finished.

The design of the front grilles is exclusive to AMSTRAD products. These grilles are produced using new techniques, resulting in fronts with an eye-catching finish that has excellent acoustic transmission properties. They are fastened to the cabinet baffles with zero resonance mountings.

Both the ACOUSTRA 1500 and the ACOUSTRA 2500 are two speaker systems, a bass unit and a treble/mid range unit being mounted in the same cabinet housing. A specially designed 4 element crossover unit is used to ensure each loudspeaker unit operates under conditions of minimum distortion, to give superb clarity of reproduction.

The loudspeaker units are front mounted into the cabinet baffles to reduce tunnelling effects. Three element air seals are used to ensure optimum performance of the system, and good power handling of the bass unit.

The treble/mid range units used in both the ACOUSTRA 1500 and the ACOUSTRA 2500 are $3\frac{3}{8}$" diameter types with a 14·2 mm voice coil diameter and a total flux of 17,650 Maxwells. They are manufactured to international D.I.N. standards to ensure good sensitivity and high reliability. The ACOUSTRA 1500 system utilises a $6\frac{1}{2}$" long throw bass unit with a 39,600 Maxwell ceramic magnetic for low non-linear distortion. The voice coil is of 25·4 mm diameter wound on an aluminium former to ensure good power handling.

The ACOUSTRA 2500 system has an 8" long throw bass unit, with a 39,600 Maxwell ceramic magnet and aluminium voice coil former, and is designed to meet D.I.N. international standards to ensure excellent performance.

Connection to the loudspeakers is via the combination countersunk moulded assembly at the rear of the enclosure.

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This connector design provides for insertion of a standard loudspeaker 2 pin D.I.N. plug and also, as an alternative, this connector will accept normal wander plugs. Whichever method of connection is used, the assembly design enables the speaker system to be used close to a wall in your room, as there are no projections proud of the cabinet rear face.

MATCHING LOUDSPEAKERS TO YOUR AMPLIFIER

Both the ACOUSTRA 1500 and ACOUSTRA 2500 loudspeaker systems are of 8 ohms nominal impedance. They are suitable for connecting to an amplifier designed for use with 8 ohm loads. They may also be used with an amplifier designed for 4 ohm loads, but there will be some reduction in the maximum power that the amplifier will deliver.

8 ohm loudspeakers of any type, including the ACOUSTRA range, should not be connected to amplifiers designed to feed loads of greater impedance than 8 ohms, as damage to the amplifier could result.

The ACOUSTRA 1500 loudspeaker system has a wattage rating of 15 watts R.M.S. It may be connected to an amplifier that has an output power of 15 watts per channel or less, for example the AMSTRAD INTEGRA 4000. Connecting to an amplifier with an output capability of greater than 15 watts R.M.S. will result in damage to the loudspeaker system.

The ACOUSTRA 2500 loudspeaker system has a wattage rating of 25 watts R.M.S. It may be connected to an amplifier that has an output of 20 watts per channel or less, for example the AMSTRAD I.C. 2000. Connecting the loudspeakers to an amplifier with an output capability of greater than 20 watts R.M.S. will result in damage to the loudspeaker system.

D.I.N. PLUG

The preferred cable termination at the loudspeaker end is a standard 2 pin D.I.N. speaker plug. This may be inserted directly into the D.I.N. socket at the rear of the speaker system. If you wire up your own D.I.N. plug, the amplifier signal output should be connected to the small round pin (No. 1) and the amplifier output earth should be connected to the large flat pin (No. 2). See Fig. 1.

Take SPECIAL CARE to ensure no strands of wire are left free to short across the plug connections, as this could damage your amplifier.

WANDER PLUGS

An alternative connection to the speakers may be made via wander plugs. The red one should be connected to the amplifier output lead, and the black one connected to the amplifier output earth. Take SPECIAL CARE to ensure that no spare strands of wire are left outside the wander plug flex entry points, as they may short out when the plugs are inserted into the speaker, and this could damage your amplifier. NEVER unplug, or plug in the wander plugs to your loudspeakers with the amplifier turned on. The red wander plug should be inserted into the socket marked + and the black wander plug should be inserted into the socket marked — at the rear of the loudspeaker cabinet.

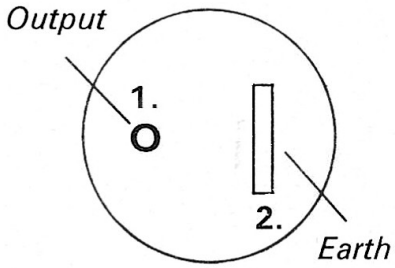
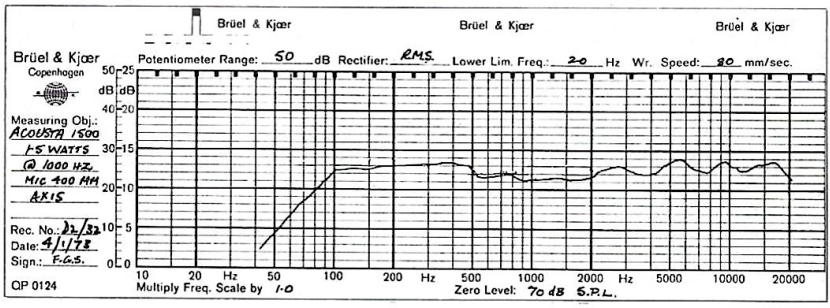


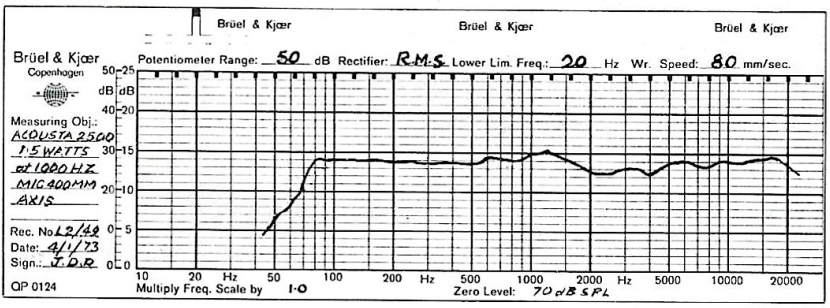
FIGURE 1:
2 PIN D.I.N.
SPEAKER PLUG

FIGURE 2:
FREQUENCY RESPONSES, MEASURED IN AN ANECHOIC CHAMBER

ACOUSTRA 1500



ACOUSTRA 2500



ACOUSTRA 1500/2500

TECHNICAL SPECIFICATIONS

ACOUSTRA 1500

Cabinet:	Fully sealed
Interior volume:	16 litres
Frequency range:	45–17,000 Hz
Maximum R.M.S. input:	15 watts
Impedance:	8 ohms
Drive units:	Bass: $6\frac{1}{2}''$ long throw Treble: $3\frac{3}{8}''$
Crossover frequency:	1200 Hz
Dimensions:	$14\frac{1}{2}'' \times 10\frac{1}{4}'' \times 8\frac{3}{4}''$ deep
Weight:	15 lbs each

ACOUSTRA 2500

Cabinet:	Fully sealed
Interior volume:	20 litres
Frequency range:	35–17,000 Hz
Maximum R.M.S. input:	25 watts
Impedance:	8 ohms
Drive units:	Bass: 8″ long throw Treble: $3\frac{3}{8}''$
Crossover frequency:	1200 Hz
Dimensions:	$19\frac{1}{4}'' \times 10\frac{1}{8}'' \times 9\frac{1}{2}''$ deep
Weight:	20 lbs each

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SERVICING

Your ACOUSTRA LOUDSPEAKERS have been thoroughly tested using modern techniques at the AMSTRAD London factory. In the unlikely event that they should stop working correctly, please have them returned directly to us for servicing by our expert and experienced engineers. Do not allow any unauthorised person to attempt repairs, as this may invalidate the guarantee.

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wish you hours of enjoyment with your new loudspeakers, and we feel sure that guided by this manual you will obtain the best possible reproduction. Any further information on the loudspeakers may be obtained from your dealer.

Made in England by

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DEALER'S STAMP

In keeping with our policy of continually improving our service, and the technical quality of our products, we reserve the right to change component types, manufacturers, or sources of supply at any time.