

HIGH STREET RADIO,
290, HIGH ST., CROYDON, SURREY.
TELEPHONE:- CRO. 9015.

Dimensions

3-9" high, 18-5" wide,
9-7" deep.

Weight
13-5 lb.

Power requirements

Voltage
110-130-220-240 volts AC.

Frequency

50-60 Hz.

Consumption

12 watts.

Connections**Inputs**

FM aerial
75 and 300Ω and local.

Outputs

Amplifier
Adjustable between 55 mV
and 1 V.

Tape recorder

100 mV for 100% modulation.

RF tuning**Tuning range**

87-108 MHz.

Sensitivity

0.8 μV for 20 dB signal/noise
ratio, 1000 Hz/75 Hz frequency
swing.

Usable sensitivity

(IHFM standard) noise and
distortion less than 3% 1.5 μV.

RF

Four-stage gang-tuned front
end with separate oscillator.

Limiting

3 dB 1.5 μV.

Signal/noise ratio

100 μV: 75 dB 1000 Hz/75 Hz
frequency swing.

Distortion

0.45% at 100 μV 1000 Hz/40 kHz
frequency swing.

AM suppression

52 dB at 100 μV.

Capture ratio

2 dB.

IF bandwidth

200 kHz at 3 dB.

Detector bandwidth

1 MHz.

Stereo crosstalk

38 dB at 1000 Hz.

Pilot and carrier suppression

50 dB.

Frequency response

20 Hz-15 kHz, stereo/mono ± 2 dB.

Channel difference

Output ± 2 dB.

Special

AFC (automatic frequency
control). Automatic stereo/
mono switching. Switching level
adjustable between 1 μV and
100 μV. Muting (removes
inter-station hiss). Switching
level adjustable for signal
strengths between 0.5 μV and
40 μV. The data listed here are
minimum values. Beomaster
5000 meets the minimum
specifications for the
DIN 45 500 standards. Each
amplifier and tuner carries its
own accredited certificate of
performance.



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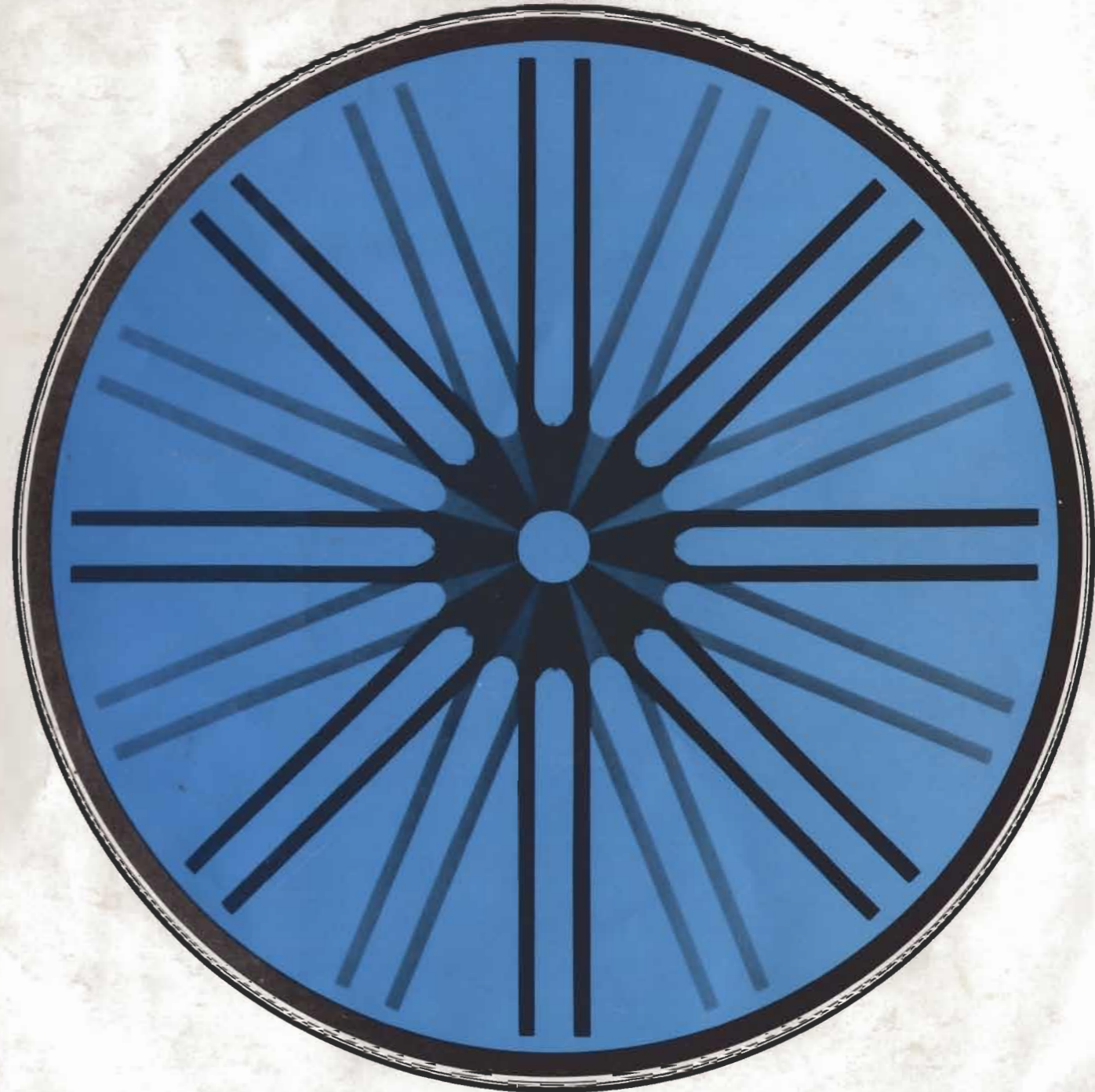
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Descriptions of equipment shown in
this leaflet are correct at the time of
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alteration. Details of any alterations are
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Bang & Olufsen reserve the right to
change designs and technical
specifications without notice.

Part number 125/38



Beomaster 5000

The Beomaster 5000 is a sophisticated FM stereo tuner possessing a high degree of sensitivity and selectivity. The use of ceramic filters in the circuitry gives optimum separation of the stations on adjacent channels and provides a barrier against unwanted interference, and the presence of FETs (field effect transistors) in the front end improves reception of weak stations which normally tend to be "crowded out" by stronger stations along the FM band. The tuner is equipped with a stereo decoder operated by a computer type circuit which automatically switches from mono to stereo when a stereo signal of sufficient strength is picked up and the signal to noise ratio is acceptable. If the field strength becomes too low during a transmission, the unit will automatically cut back to mono reception. Tuning is by means of a slide rule control along a clearly calibrated scale and the cursor is fitted with a thumb wheel to assist accurate fine tuning. A large tuning meter is provided as a visible means of checking tuning accuracy and signal strength. An automatic frequency control circuit locks on to the required station and prevents drifting, and the muting switch can be engaged to quieten inter-station noise when tuning along the scale. The excellent specification of the Beomaster 5000 makes it ideal for use with any top-quality audio system, but it is primarily designed for use in conjunction with the Beolab 5000 amplifier, to which it is the perfect complement. The two units are identical in size and shape, and both have brushed aluminium facias and elegant wooden cabinets finished in teak or rosewood.

Today more than ever before there is a need for proper relaxation – for some few hours of leisure and contentment after a busy day. If music has a place in your life, you need audio equipment that will give you years of pleasure and good service, that will do justice to your musical taste and bring a touch of luxury to your home. A good quality radio tuner can bring the world into your living room, and the true sound of the broadcast can be re-created by an equally sophisticated amplifier. Stereo transmissions, if these are available in your area, require specialised equipment if they are to be received and amplified correctly and without undesirable background noise. You may also need the added facility for connecting a record deck or tape recorder so you can build up your own personal library of great musical performances. The better the equipment you choose, the more satisfying your leisure time will be. Bang & Olufsen have had over forty years' experience in designing and building radio and audio products. Their standards of excellence are famous throughout Europe, and their name is synonymous with quality. If you prefer listening to the great outdoors rather than living in it, Bang & Olufsen brings you the sweetest sounds.

Beolab 5000

The Beolab 5000 is one of the most outstanding audio units to be marketed in this country in recent years. It is a silicon transistor stereo amplifier that really lives up to the name of high fidelity. The twin-channel amplifier produces 2 x 60 watts RMS output with less than 0.6% distortion at all frequencies, and its comprehensive input and output facilities make the Beolab 5000 the perfect control for a really superior audio system. Despite its sophisticated technical design, the Beolab 5000 is extremely simple to use, all the variable controls being of the cursor type with clear, logical calibrations, and all the switches being push-buttons, graphically marked by a special process that makes the markings resistant to fading or flaking. There are input connections for microphone, record deck, tuner and tape recorder and an auxiliary input for any additional equipment. The sockets for gramophone, tape and tuner are all duplicated in DIN and phono types for conveniently connecting other suitable makes of equipment. Outputs are provided for tape and line and two pairs of loudspeakers.

A special accessory – the 8006 spread box – is available to allow variations in the "width" of stereo effect by means of one or two centre channel speakers, and to provide an output for stereo headphones. Separate scratch and rumble filters may be switched in to compensate for poor or varying quality on records or tapes, and a loudness control ensures really good high and low frequency reproduction even at the quietest volume levels. A special test button allows the input levels from different sound sources in the system to be exactly matched. The use of silicon transistors in the circuitry ensures a low inherent noise level, a high degree of stability in differing ambient temperatures, and a wide tonal range. The cabinet is finished in natural wood in a choice of teak or rosewood, and when used with the Beomaster 5000, the amplifier may conveniently be placed on top of the tuner if space is limited. The Beolab 5000 is fitted with a special mains socket to supply power to the tuner, so the connecting cables may be arranged neatly out of sight.

Beolab 5000

Dimensions
3.9" high, 18.5" wide, 9.7" deep.
Weight
22.9 lb.
Power requirements
110–130–220–240V AC,
50/60 Hz, 45–325 watts.
Fitted with switched mains
outlet socket for tuner.
Power Output
120 watts (2 x 60 watts) RMS.
Speaker impedance
4Ω.

Distortion
Less than 0.2% at 1000 Hz
(2 x 60 watts output).
Less than 0.6% at all frequencies
from 20 to 20000 Hz and to
power outputs in excess of
60 watts on both channels
simultaneously.
Signal to noise ratio
90 dB below 60 watts with
volume control at minimum.
Frequency response
20–20000 Hz ± 1.5 dB.

Input	Application	Curve	Input impedance 1000 Hz	Nominal ⁽¹⁾ input voltage	Alignment control ranges	Maximum input voltage	Socket
MIC	Balanced input for microphone	Linear	200Ω maximum	200μV	150μV 19 mV ⁽²⁾	3.5 mV 15 mV	DIN
PHONO HIGH	Crystal pickup and line	Linear	1 MΩ	250 mV	200 mV 4V	5V 5V	DIN and PHONO
PHONO LOW	Magnetic pickup	IEC fine groove	47 kΩ	4 mV	1.3 mV 14 mV	3.5 mV 120 mV	DIN and PHONO
TUNER HIGH	Radio/line	Linear	470 kΩ	250 mV	200 mV 4V	5V 5V	DIN and PHONO
TUNER LOW	Radio	Linear	47 kΩ	7 mV	6 mV 200 mV	180 mV 9V	DIN and PHONO
AUX	Line	Linear	470 kΩ	250 mV	200 mV 4V	5V 5V	DIN and PHONO
TAPE	Tape recorder	Linear	470 kΩ	250 mV	200 mV 7V ⁽²⁾	7V 7V	DIN and PHONO

⁽¹⁾ Nominal input voltage is the voltage providing full power output with the volume control at maximum. Technical data is for alignment set for nominal input voltages.

⁽²⁾ May be set for higher voltages, but maximum input voltage must not exceed the values listed.

Outputs	Output impedance	Output voltage at nominal input voltage	Maximum output voltage	Socket
TAPE	4 kΩ	30 mV	0.9V	DIN
LINE OUT	4 kΩ	30 mV	0.9V	DIN
LINE OUT	2 kΩ	350 mV	7V	PHONO

Speakers at outputs	Speaker impedance ⁽¹⁾	Power output
SPKRS 1–2	4Ω	2 x 60 watts
SPKRS 1–2	8Ω	2 x 40 watts
SPKRS 1–2	16Ω	2 x 20 watts
CENTRE only	8Ω	120 watts

⁽¹⁾ Minimum speaker impedance to be presented to each channel = 3.2Ω. Using centre channel only, speaker impedance to be greater than 6.4Ω.

