



BEOCENTER 1800

BANG & OLUFSEN

”?”

For the UK market only.

IMPORTANT

The wires in this mains lead are coloured in accordance with the following code:

Blue: Neutral
Brown: Live

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug proceed as follows:
The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.

The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

Ensure that your equipment is connected correctly. If you are in any doubt, consult a qualified electrician.

This set requires a **5 Amp.** fuse in the mains plug.

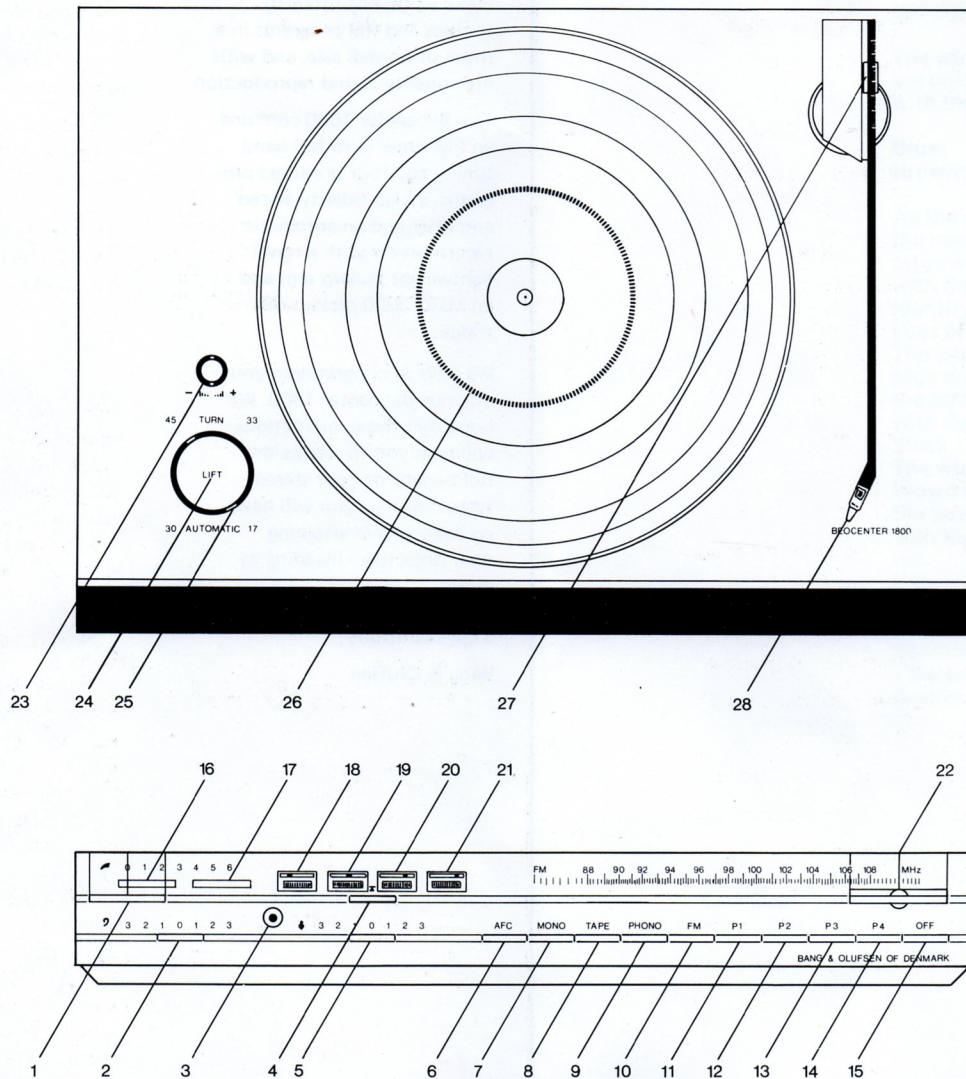
The Beocenter 1800 is the compact music system for those who make a point of listening to discs and FM programs in a room of normal size, and with high-quality sound reproduction.

The Beocenter 1800 contains an FM tuner with full band tuning and four pretuned programs, a high-fidelity stereo amplifier and an automatic record player with a novel lightweight pickup arm and an MMC 3000 pickup cartridge.

We wish to congratulate you on your Beocenter 1800. We hope that these instructions will help you to realize the full benefit of your stereo system so that you will have no problems in attaining your objective - listening to music.

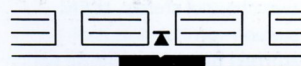
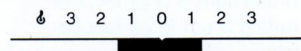
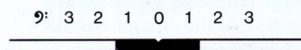
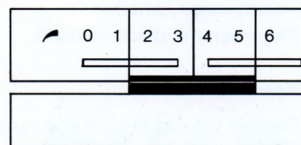
Yours faithfully,

Bang & Olufsen



- 1 Volume control
- 2 Bass control
- 3 Headphone socket
- 4 Balance control
- 5 Treble control
- 6 AFC (Automatic frequency control)
- 7 Stereo/mono switch
- 8 Playback tape
- 9 Record player
- 10 Band tuning
- 11 Program 1
- 12 Program 2
- 13 Program 3
- 14 Program 4
- 15 Off switch
- 16 Dial light
- 17 FM stereo indicator light
- 18 Pretuning, program 1
- 19 Pretuning, program 2
- 20 Pretuning, program 3
- 21 Pretuning, program 4
- 22 Tuning knob
- 23 Vernier speed control
- 24 LIFT, start and stop
- 25 Speed selector
- 26 Stroboscope dial
- 27 Stylus force adjustment
- 28 MMC 3000 Pickup cartridge

ON/OFF



OPERATION

To switch on your Beocenter 1800 depress one of the P 1 to P 4 buttons or the FM, PHONO or TAPE button, and the indicator to the left will show red light.

To switch off, depress the OFF button.

Volume is controlled with this knob for both speakers and headphones.

This knob controls the deep notes relative to the mid-range and high notes. The mid-scale setting, 0, is the normal one; sliding the knob towards the right will accentuate the deep notes; sliding it to the left will attenuate them.

This knob controls the high notes relative to the deep and mid-range notes. The mid-scale setting, 0, is the normal one; sliding the knob towards the right will accentuate the high notes; sliding it to the left will attenuate them.

The balance knob controls the relative strengths of the two speakers. The normal setting is in the middle, but if the two speakers are not placed in perfect symmetry in the room it may be necessary to

88 - 108 MHz

slide the knob to one side. Listen to a mono program from the place in the room you want to consider your listening area. Try different settings of the knob until the sound appears to be coming from a place midway between the two speakers.

You depress the MONO button when you want single-channel reproduction, whether for FM-programs, discs, or tapes.

Band Tuning

Depress the FM button and tune in the station of your choice with the large cursor on the dial. Use the circular vernier control for final accurate tuning.

The double-acting indicator light helps you to tune in accurately: The two red lights will have equal brightness when a station is tuned in correctly. If one light is brighter, the tuning is not in perfect balance.

FM Stereo

When you tune in an FM stereo program the green indicator light will turn on, and reproduction will automatically be two-channel stereo. If FM stereo reproduction is disturbed by hiss and noise which disappears on pressing the MONO button it is an indication that your FM aerial is either out of order or inadequate.

AFC

AFC (automatic frequency control)

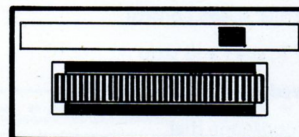
Your Beocenter 1800 has an automatic frequency control circuit which can perform final accurate tuning for you and keep the station in tune. This feature becomes operative on depressing the AFC button. When listening to a weak station adjacent to a stronger station on the dial you may find it an advantage not to use the AFC feature - that is, leaving the AFC button released.

Pretuned Programs

Buttons P 1 to P 4 allow you to choose quickly between your favourite programs.

Before you can use these push-buttons, the small dials (18-21) must be tuned to the FM stations you may expect to receive in your locality.

88 · 100 · 108



Depress the P 1 button. Leave the AFC button released. Set the knob (18) to the station you want to be program 1. Use the red indicator light as when tuning in on the large dial.

Proceed in the same way in tuning P 2 to P 4 to the other programs. Depress the AFC button so that you will always be sure that the station of your choice is tuned correctly in.

INTERNATIONAL GUARANTEE

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Dette Bang & Olufsen produkt dækkes af en garanti mod fabrikations- og materialefejl.

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Golavaz Co. Ltd.
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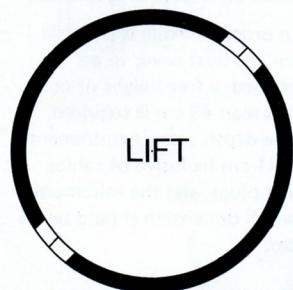
Phone: (312) 640-0660

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ones listed here you are wel-
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7600 Struer
Denmark

Bang & Olufsen

45 TURN 33



30 AUTOMATIC 17

25CM-33

17CM-33

PLAYING DISCS

Depress the PHONO button and put a disc on the turntable. Set the selector knob (25) to the desired disc size, 30 or 17 cm, and start playing by pressing LIFT. The pickup will automatically lower into the first groove of the disc, and when the disc has finished, the pickup will rise and travel out.

The dust cover can be closed while you play the disc.

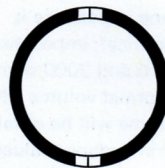
If you want to stop playing or just make a pause, press LIFT. The pickup will then be lifted but will remain in the same place above the disc. When you press LIFT again, the pickup will again lower, and will continue playing the disc.

For 25 cm discs the selector should be set to 30 (33 r.p.m.), and the pickup arm should be moved to the first groove of the disc before LIFT is pressed. The same applies to the special 17 cm discs which are to be played at the 33 r.p.m. speed.

For discs with large centre holes use the adaptor which is supplied.

Vernier Speed Adjustment

Without disc on the turntable turn the selector knob to 30 cm and thereafter a little to the left.



- ||||| +

The turntable will now rotate at 33 r.p.m., but the pickup will not travel towards the centre. With the knob (23) adjust the speed while observing the stroboscope dial, which should be illuminated by a lamp powered from the mains. Rotate the knob until the black sectors appear to be standing still. If they seem to move against the speed of rotation, the speed is too low, and the knob should be turned towards +. And conversely, if the sectors appear to be moving in the direction of rotation, the speed is too high, and the knob should be turned towards -.

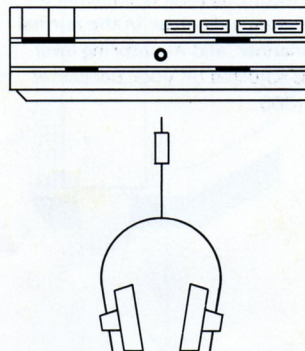
Wiping Your Discs

The TURN position should be used also when you wish to wipe dust off a disc before playing it.

The turntable will rotate, and the pickup will not be lowered.

Headphones

A pair of stereo headphones may be plugged into the socket on the front of your Beocenter 1800, between the bass and treble knobs. When the plug is inserted, the speakers are cut off automatically. However, this does not apply to speakers in another room which are connected as No. 2 pair; they will continue to reproduce sound.



TAPE

FM TAPE

Headphone impedance is fairly uncritical; impedances between 16 and 2000 ohms will provide normal volume whereas lower volume will be obtained at higher impedance values.

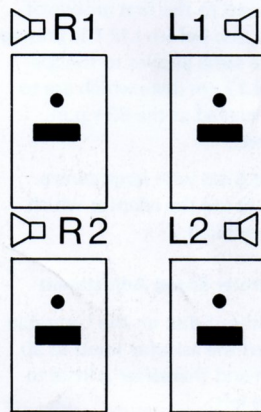
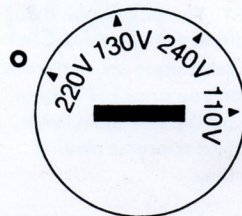
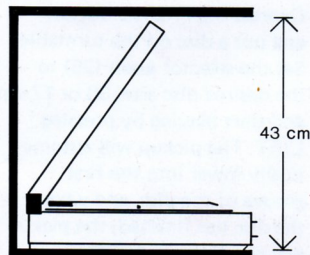
Tape Recorder

To play back tapes, depress the TAPE button and start the tape recorder in its playback mode.

To make tape recordings, depress the button for the program you wish to record: FM, P 1 to P 4, or PHONO. Operate the tape recorder as described in its instruction manual under Record.

Off-the-tape Monitoring

You can obtain off-the-tape monitoring if your tape recorder has this facility (separate record and playback heads). You should then depress two buttons together, e.g. FM and TAPE, or PHONO and TAPE. Recording level is adjusted on the tape recorder in the normal manner, and monitoring level is adjusted on your Beocenter 1800.



SETTING UP

Your Beocenter 1800 is intended for horizontal placement on a table or wall shelf.

In order to make it possible for the dust cover to be opened, a free height of not less than 43 cm is required. The depth space requirement is 41 cm inclusive of cables and plugs, and the minimum width dimension should be 54 cm.

Mains

Your Beocenter 1800 is switchable between mains voltages of 110, 130, 220 and 240 volts AC, 50 Hz.

The switch is located in the bottom of the set; it controls both the radio section and the record player. As supplied from your dealer, the set is switched for 220 volts. Conversion to a different voltage is performed by turning the switch with a coin or similar object.

Speakers

A total of four speakers may be connected to your Beocenter 1800: Pair No. 1 for stereo reproduction in the room where the set is placed, and pair No. 2 in another room.

The connector sockets are placed on the rear. The left speaker plugs into L and the right speaker into R.

240-300



60-75 OHM



FM Aerial

Your Beocenter 1800 has sockets for both 75- and 240 ohm FM aerial systems. If you live near an FM broadcasting station you may use a Bang & Olufsen type 8902010 FM indoor aerial. On the back of the set is a holder into which the aerial may be inserted, and the short cable should be plugged into the 240-ohm socket.

Such an indoor aerial has its limitations, and if you find it difficult to obtain noise-free reception or want to be able to receive distant FM stations, you will have to install a more efficient aerial system.

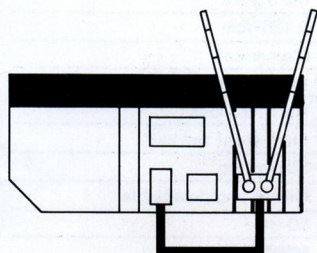
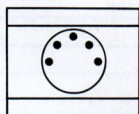
FM stereo reception in order to be noise-free requires an incoming signal that is approx. ten times stronger than in the case of mono reception from the same FM station. Discuss this with your dealer; he knows local conditions and can advise you.

Tape Recorder

The TAPE socket is intended for both cassette and reel-to-reel recorders. A type 0961014 cable is required.

You can obtain off-the-tape monitoring if your tape recorder has this facility (separate record and playback heads). In this case use a type 6270019 cable.

TAPE



MAINTENANCE

The external surfaces of your Beocenter 1800 can normally be kept clean with a dry, soft cloth. More thorough cleaning may be carried out as follows:

Metal Surfaces and White-lacquered Wood. A soft cloth moistened in a lukewarm solution of detergent in water is recommended. Do not use alcohol as this may cause the translucent portions of the slide knobs to assume a dull appearance.

Rosewood. If the cabinet surfaces seem grey and dry you may apply a thin film of rosewood oil, though not more than once or twice a year. Use a thin grade of oil.

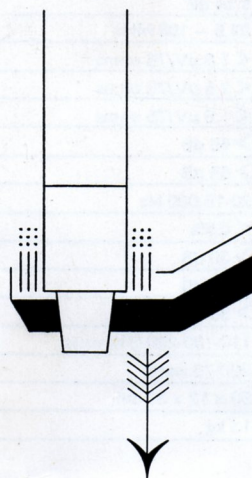
Wiping the Dust Cover. Repeated wiping with a dry cloth will cause the dust cover to eventually pick up a static charge. It is therefore advisable to use detergent once in a while, when wiping the dust cover.

Cleaning of the stylus

If the sound is distorted it may be due to dust on the stylus. Use the enclosed cleaning brush and brush only in the direction of the arrow in order not to damage the thin cantilever.

Warning:

Be aware of chemical detergents for records and styli. They may contain solvents which damage parts of the pick-up unit.



TECHNICAL DATA	BEOCENTER 1800
Type no.	2610
Sound system and loudspeakers	2 sets of stereo
FM pretuning	4
Power output 1000 Hz RMS	2 x 22 watts/4 ohms 2 x 19 watts/8 ohms
Music power	2 x 40 watts/4 ohms 2 x 25 watts/8 ohms
Speaker impedance	4 ohms
Harmonic distortion	
1000 Hz 50 mW DIN 45 500	< 0.1%
1000 Hz at stated output	< 0.5%
Intermodulation DIN 45 500	< 1%
Frequency range ± 1.5 dB DIN 45 500	20-30.000 Hz
Power bandwidth DIN 45 500	10-35.000 Hz
Damping factor 1000 Hz DIN 45 500	> 12
Input pickup low impedance	2.5 mV/47 k ohms
2 channel high impedance	140 mV/700 k ohms
Signal-to-noise ratio DIN 45 500	
50 mW, pickup low impedance	> 50 dB
Channel separation 1000 Hz DIN 45 500	> 55 dB
Output tape recorder 1000 Hz DIN 45 500	100 mV/100 k ohms
Headphones	Max. 10 V/200 ohms
Bass control at 40 Hz	± 17 dB
Treble control at 12,500 Hz	± 14 dB
FM Range	87.5 - 108 MHz
Sensitivity 26 dB, ± 40 kHz	< 1.8 μ V/75 ohms
Sensitivity IHF	< 2.5 μ V/75 ohms
Limiting, - 3 dB ± 40 kHz	< 1.5 μ V/75 ohms
Signal-to-noise ratio DIN 45 500	> 65 dB
Selectivity IHF	> 55 dB
Frequency range ± 1.5 dB DIN 45 500	20-15.000 Hz
Harmonic distortion DIN 45 500	< 0.5%
Stereo channel separation DIN 45 500	> 30 dB
Pilot suppression 19 kHz	> 35 dB
38 kHz	> 35 dB
Power supply	110-130-220-240 volts
Power consumption	20-170 watts
Dimensions W x H x D	50 x 12 x 37 cm
Weight	13 kg

TECHNICAL DATA	Record player
Speeds	33 - 45 rpm
Automatic pickup movement	Yes
Automatic speed selection	Yes
Wow and flutter, DIN	< $\pm 0,12\%$
Wow and flutter, WRMS	< $\pm 0,06\%$
Rumble DIN unweighted	> 37 dB
Rumble DIN weighted	> 60 dB
Speed deviation	< 0.1%
Speed control range	> 3%
Dial for speed	Stroboscope 120 mm
Stylus pressure range	0-2.5 gram
Tangential tracking	0.126°/cm
Lift system	Mechanical
Antiskating	Inclined channelling, inside bearing
Motor	Asynchronous
Drive system	Idler wheel and belt
Turntable	30 cm 1 kg
Dust cover	Hinged and detachable
Frequency	50 Hz
Pickup	MMC 3000
Stylus	Spherical diamond
Radius of curvature	15 μ m
Frequency range	16-25,000 Hz ± 3 dB 20-16,000 Hz ± 2.5 dB
Channel separation 1000 Hz	> 20 dB
400-10,000 Hz	> 15 dB
Channel difference	< 2 dB
Intermodulation	< 1%
Recommended stylus pressure	1.2 gram
Compliance	25 x 10 ⁻⁶ cm/dyne
Effective tipmass	0.5 mg

Subject to change without notice



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