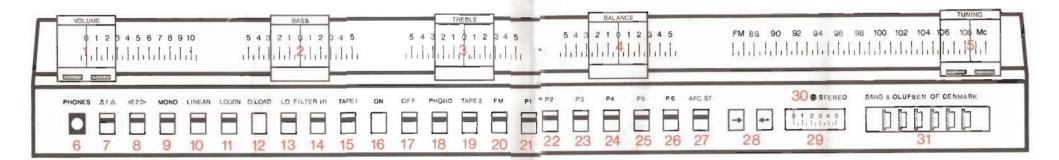


Operating Instructions Beomaster 4400



- Off switch and indicator light. Receiver is
- off when OFF is depressed. To switch on. press one of the program buttons: FM, P1 to P6, TAPE, or PHONO.
- Cuts in speakers for stereo.
- Cuts in speakers for ambio or stereo in another room, see page 4-5.
- Socket for stereo headphones.
- Volume control.
- Bass control. To accentuate, slide right. To attenuate, slide left.
- Treble control. To accentuate, slide right. To attenuate, slide left.
- Balance between left and right channels.

- Mono reproduction through all speakers. Can reduce noise when FM stereo reception is weak,
- Flat response. Cuts out all tone corrections: BASS, TREBLE, LOUDNESS and LO-HI filters.
- Acoustically correct low-volume reproduction: accentuates low and high tones at volume control settings below approx. 4.
- OVERLOAD, Lights when the output of one or both output amplifiers is distorted.
- Filter to attenuate the lowest frequencies such as rumble from gramophone records.
- Filter to attenuate the highest frequencies such as hiss, distortion and noise from records and tapes.

- Selects FM band, 88 108 MHz.
- FM dial pointer with two finger wheels for fine adjustment.
- Equal brilliance of the two indicators is indication of correct tuning.
- FM signal level meter.
- Indicator light for FM stereo reception.
- Cuts in automatic frequency control and low-noise tuning: no noise between stations.
- Pretuned FM programs, P1 to P6. 26
- 31 Pretuning of FM programs: P1 depressed, AFC-ST released, turn first (left) tuning knob to the FM station you want to be your Program 1. Use indicators 28 and 29. Proceed similarly for tuning P2 to P6 to other FM programs, and depress AFC ST.

- Playing records.
- 15 Playing tapes.

Recording on tape: Instead depress FM, P1 to P6, or PHONO.

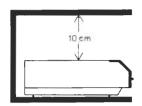
OFF-the-tape monitoring (if your tape recorder is so equipped): Depress both TAPE 1 and one of the buttons FM, P1 to P6, or PHONO. To stop monitoring, again press the program button: FM, P1 to P6, or PHONO.

Tape playback from additional tape recorder.

> Recording on tape: Instead depress FM, P1 ti P6, or PHONO.

Dubbing from No. 1 to No. 2: TAPE 1 depressed, TAPE 2 released.

Dubbing from No. 2 No. 1: TAPE 2 depressed, TAPE 1 released.

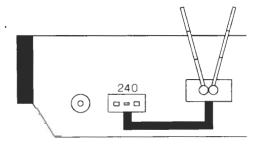


Setting up

Your Beomaster 4400 is intended for placement on a table or in a wall of shelves. Because of the heat radiated by the set, the ventilating apertures on the top side must be accessible for air circulation. Avoid placing the set directly above a radiator, where the temperature is considerably higher than in the rest of the room.

Mains

Your Beomaster 4400 is switchable between 110, 130, 220 and 240 volts AC, 50-60 Hz.



FM aerial

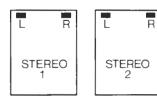
Your Beomaster 4400 has sockets for both 75 - and 240-ohm FM aerial systems. If you live near an FM broadcasting station you can use a Bang & Olufsen type 8902010 FM indoor aerial. It goes a holder on the back of the set, and the cable should be plugged into the 240-ohm socket.

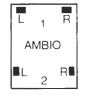
What type loudspeaker?

Your Beomaster 4400 can deliver 2×75 watts of audio power at 4 ohms, for stereo reproduction in one room. Hence the speakers connected to it should have a rating of not less than 75 watts and have an impedance of not less than 4 ohms.

75 WATTS

4 OHMS





A total of four speakers may be connected to the receiver:

Stereo on two rooms simultaneously. Stereo or ambio in the same room.

Stereo

The steree seekets are on the back of the set.



L1 and R1 are for the two front speakers for stereo: L is left and R right.

L2 and R2 should be connected to stereo in another room, and the slide switch on the back of the set should be in the STEREO position.

Ambio

Ambio is extended stereo reproduction. Two additional side speakers are required, plugged into the sockets L2 and R2. The slide switch on the back should be set at AMBIO. The two ambio speakers need not necessarily be as large as the front speakers; 30 watts continuous load is adequate. However, this requires that the switch is not shifted from AMBIO to STEREO as this will increase the output power at L2 and R2.

VOLUME

Use the volume control with discretion. The listed output rating is a minimum value, and in practice it is perfectly possible to have \$0 and passages of considerably higher power.

OVERLOAD

Overdrive indicator which lights when the output amplifier's normal operating range is exceeded, resulting in distortion.

The amplifier will suffer no damage if you play so loud that the indicator flashes; but sound quality will be impaired.

Protection

If the amplifier is actually overloaded, a protective circuit wiff operate, muting the amplifier. This may occur for instance if the speaker leads are short-circuited, or if an extremly-low-impedance speaker is connected.

To cut out the protective circuit, turn off the set and turn it on again.

Record player

The PHONO socket is intended for a stereo record player using a low-impedance pickup.

Tape recorder

A Type 0961014 cable should be connected between the TAPE 1 socket and the tape recorder.

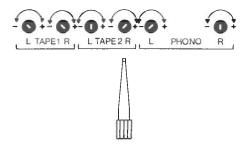
If the tape recorder has the off-the-tape monitoring feature, a Type 6270019 cable may be used instead.

The TAPE 2 socket may be connected to an additional tape recorder through a Type 0961014 cable.

You can record on both tape recorders simultaneously, and you can dub from one to the other, in both directions.

Volume level adjustment

While making the set-up you have a chance of matching the volume level, which may depend on the record player and tape recorder which are connected. The ideal condition is that you do not have to readjust the VOLUME control each time you select a program.



The level controls are located in the bottom. They are marked PHONO, TAPE 1 and TAPE

Using the FM level as starting point, set VOLUME at a convenient level. While playing a stereo record turn PHONO L and PHONO R with the screwdriver which is supplied, until you have the same volume level and left/right balance as for FM. TAPE 1 and TAPE 2 are adjusted similarly while playing a tape.

The sensitivity can be adjusted within these ranges:

PHONO: 2-20 mV

TAPE 1 and TAPE 2: 180 mV-2V

Adjustment of level for silent FM tuning

The control designated ST LEVEL (Silent Tuning Level) in the bottom of the receiver is factory preset so that the receiver is muted between stations.

If an aerial system has a high noise level it may be necessary to readjust the ST LEVEL control until the noise disappears.

Maintenance

The external surfaces of your Beomaster can normally be kept clean with a dry cloth. More thorough treatment may be carried out as follows:

Metal surfaces. Use a soft cloth moistened in a lukewarm solution of detergent in water. Do not use alcohol as this may result in damage to the moulded parts.

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

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 13 Amp. fuse in the mains plug.

TECHNICAL DATA DIN 45 500	BEOMASTER 4400
Type no.	2417
Power output	2 x 75 watts/4 ohms
	2 x 50 watts/8 ohms
Music power	2 x 110 watts/4 ohms
	2 x 60 watts/8 ohms
Speaker impedance	4 ohms
Harmonic distortion	< 0.05%
Intermodulation	< 0.1%
Frequency range	20 - 35,000 Hz
Damping factor	> 65
Input pickup low impedance	2.2 mV/47 kohms
Input high impedance	200 mV / 470 kohms
Overload margin	> 31 dB
Signal-to-noise ratio pickup low impedance	> 60 dB
High impedance	> 60 dB
Channel separation 1000 Hz	> 45 dB
250 - 10,000 Hz	> 35 dB
Output tape recorder	30 mV/100 kohms
Headphones	Max. 17 V/200 ohms
Bass control at 40 Hz	± 12 dB
Treble control at 12,500 Hz	± 12 dB
HI filter	7000 Hz 12 dB/octave
Lo filter	60 Hz 12 dB/octave
FM tuner range	87.5 - 108 MHz
Sensitivity stereo 46 dB	< 20 µV/75 ohms
Frequency range	20 - 15,000 Hz
Harmonic distortion	< 0.3%
Stereo channel separation	> 35 dB
Pilot suppression 19 kHz	> 65 dB
38 kHz	> 100 dB
Power supply-	110 - 130 - 220 - 240 volts
Power consumption	30 - 310 watts
Dimensions W x H x D	57,5 x 9,5 x 28 cm
Weight	10 kg

Subject to change without notice

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