Assembly after Transport To avoid damage during transport, several record player components have been taken off and enclosed separately, in foam inserts.



Insert the counterbalance weight in the rear section of the pickup arm.



Stylus force

Move the cursor to the desired value on the dial. Recommended stylus force for the MMC 20 S pickup cartridges is 15 mN, 1.5 grams.



Turn the three transit screws clockwise as far as they will go. Put the turntable down on the under-turntable. If you subsequently have to take off the turntable, the easiest way to do this is to first lift the record spindle and thereafter put your fingers in following code: under the turntable rim.



Keep the carton etc. for possible subsequent transport of your Beocenter 4600.

Move the dust cover in on the rear edge of the chassis deck. Setting Up

With the dust cover fully open. the height space requirement is 35 cm.

The depth dimension inclusive of leads and plugs is 40 cm. The width dimension is 66 cm. Avoid placing your Beocenter 4600 directly above a radiator, where the temperature is considerably higher than in the rest of the room.

Mains

Your Beocenter 4600 is switchable between 110, 130, 220 and 240 volts AC, 50 Hz, using the switch in the bottom.

For the UK market only. IMPORTANT

The wires in this mains lead are coloured in accordance with the

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

This set requires a 13 Amp. fuse in the mains plug.

electrician.



Speakers

A total of four speakers may be connected to your Beocenter 4600. Pair 1 for stereo reproduction in the same room with the set, and pair 2 for stereo in another room. We recommend speakers

designed for not less than 25 watts of continuous load, and impedance not less than 4 ohms.



The speaker sockets are located

FM and AM Aerials

Let your dealer advise you as to what aerials are best suited in your locality.

For both FM and AM we recommend that you use aerials that are placed high and in the clear, or a community installation.

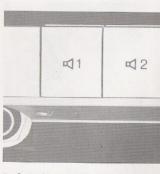
The AM socket is wired so that the upper pin is to be connected to the aerial and the lower one to earth.



purchase a Bang & Olufsen type 8902010 FM aerial. It goes into a holder on the back of the set, and the cable plugs into the 240-300-ohm socket.

Operation

OFF. To switch the receiver off. depress OFF. To switch on. select a program; FM. P1 to P4. LW, MW, TAPE, or PHONO.



1. Cuts in speaker pair 1. 2. Cuts in speaker pair 2.

LW and MW. Long and medium wave bands.

You tune in with the dial cursor. should be released. Set Tune for maximum AM in indica- PROGRAM 1 knob to the FM tor brightness.

FM band, 88 - 108 MHz. FM stations are tuned in correctly when TUNING FM indicators show the two TUNING FM indicators show equal brightness.

when FM STEREO is being received.



P1 to P4 Preselected FM

Pretuning of FM programs: Depress P1. ST-AFC button station you want to be your

Program 1, until the two equal brightness. Similarly set P2 to P4 to other The FM STEREO indicator lights FM programs, and depress ST-AFC.

> ST-AFC. Cuts in low-noise FM tuning: no noise between stations, also automatic frequency control on FM stations.

VOLUME, Volume control.

BASS. Accentuates towards right. Attenuates towards left.

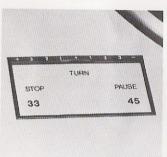
TREBLE. Accentuates towards right. Attenuates towards left.

BALANCE between left and rid channels.

MONO. Mono reproduction through all speakers. Can reduce noise when incoming F stereo program is weak.

TAPE. Tape playback. To recor on tape, press instead FM, P1 P4, LW, MW, or PHONO.





Record Player

30 cm records: Press 33. 17 cm records: Press 45. 25 cm records: Move pickup arm in to first groove and press 33.

STOP

To stop before record has finished: Press STOP.

PAUSE

Pause: Press PAUSE. To continue, playing from the same point, again press 33 or

You can also move the pickup to another place on the record and again press 33 or 45.

Special 17 cm records, 33 rpm: Move pickup arm in to first groove and press 33.



Centre adaptor

Matches records with large centre holes and is pressed down automatically for normal records.



Pitch control, TURN

For fine adjustment of pitch. The normal setting is with the pointer at 0. If a record is not recorded at the correct speed, or if you wish to match the pitch of the record to a musical instrument, turn the knob and pointer towards + or -.

Wiping of records

Pressing TURN will cause the turntable to rotate without the pickup being moved in. You may use a record cleaner of the type which leaves a damp film of pure water.



It is unnecessary to use an underlay auch as carbon discs for static discharge because the turntable in itself provides good metallic contact with all records.

Care of discs

We assume that you keep your discs in their jackets or albums. It is not immaterial how you take the enclosed cleaning brush and out a disc because the friction against the inner side of the jacket is enough to give the disc a static charge so it will attract

dust. Hold the disc jacket so that its sides bend away from the disc. Put your hand in below the disc so that the middle finger touches the centre hole and the thumb grips the rim of the disc. and without touching the grooves of the disc. Pull the disc out of its jacket in such a manner that the jacket only touches the rim of the disc, not the actual surfaces.

Only hold the rim of the disc when putting it on the turntable. thin cantilever. Keep the dust cover of your Beocenter closed while playing

the disc. Put the disc back in its jacket in the same careful manner, avoiding friction between the aidea of the disc and the inchet

Cleaning of the stylus

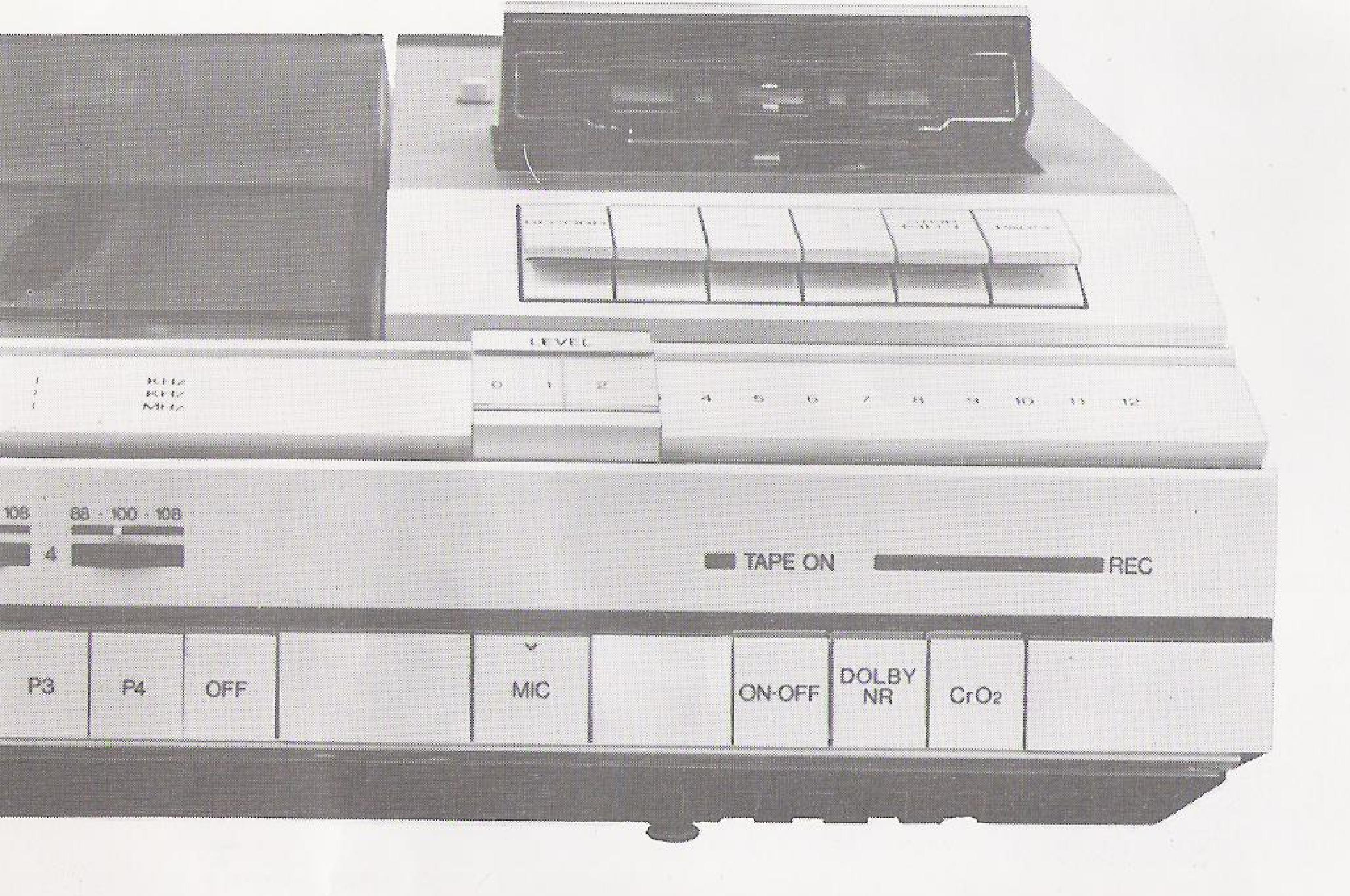
If the sound is distorted it may be due to dust on the stylus. Use



brush only in the direction of the arrow in order not to damage the

Warning:

Be aware of chemical detergents for records and stylii. They may contain solvents which damage parts of the pickup unit.



Tape recorder

TAPE ON. Turns tape recorder on and off. Press to turn on. To turn off, press again. To open the cassette holder,

Forward tape motion,

press STOP-EJECT.

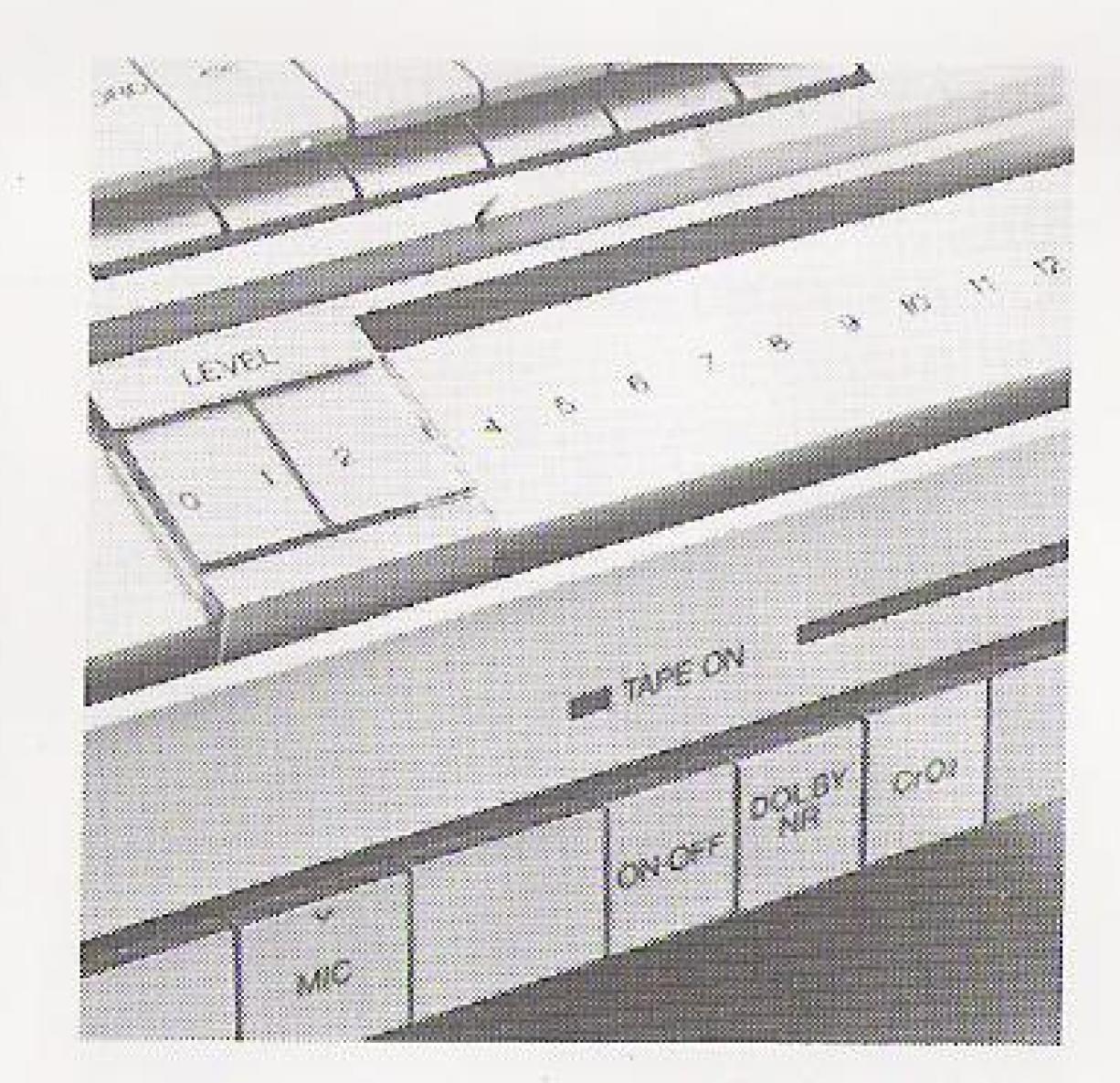
play and record

Rewind

Fast forward

Stop: Tape stops the first time STOP is pressed. Pressing STOP a second time opens the cassette holder, EJECT.

DOLBY NR.* noise reduction system. Depress this button when you want to make Dolby recordings, also for playing Dolby-recorded tapes.

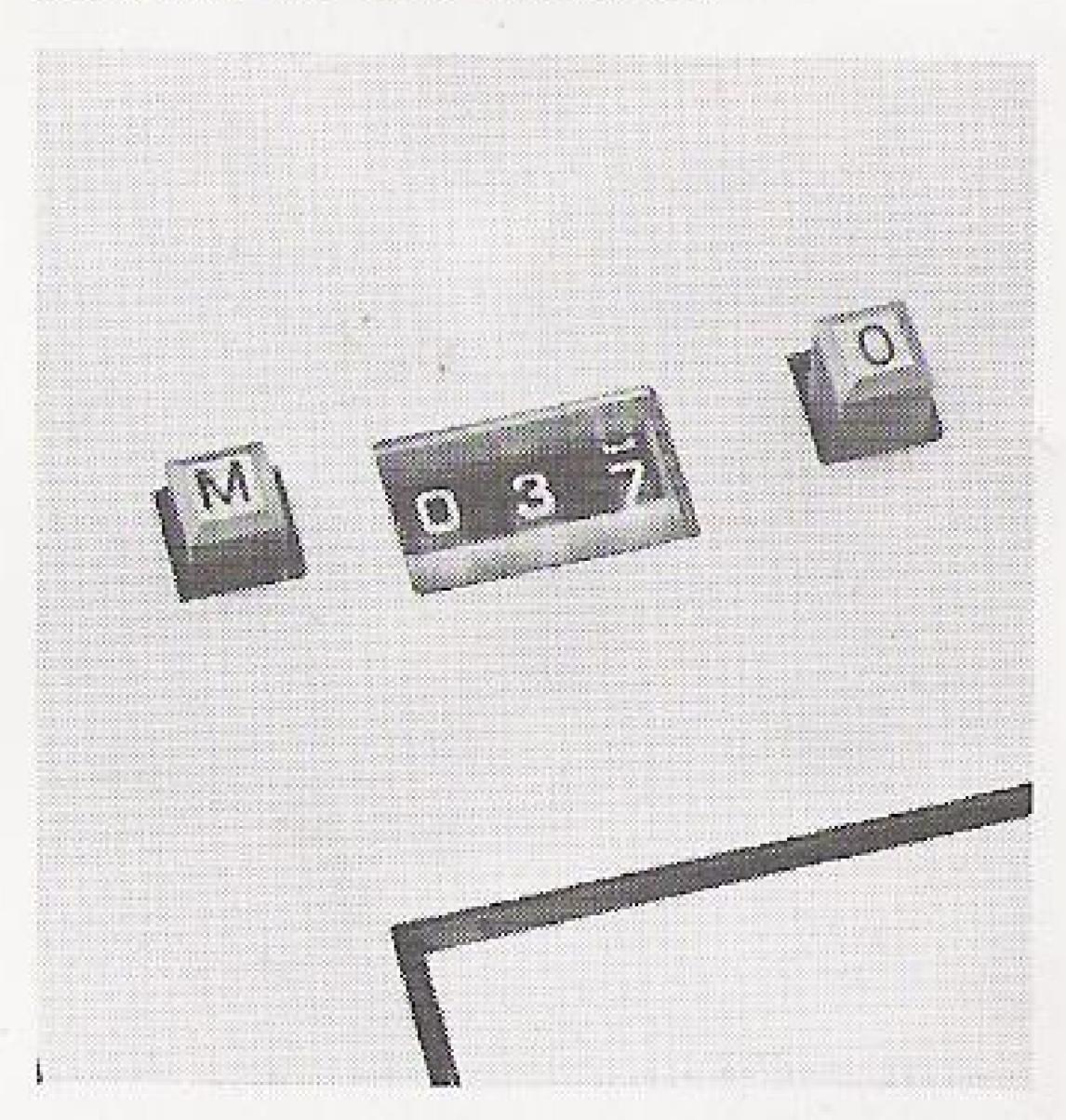


Tape type. CrO2 button released: Standard tapes, ferric Button depressed: Chrome dioxide tapes.

Automatic stop. When the tape of a cassette has finished, forward tape motion stops automatically. The same applies after rewind and fast forward.

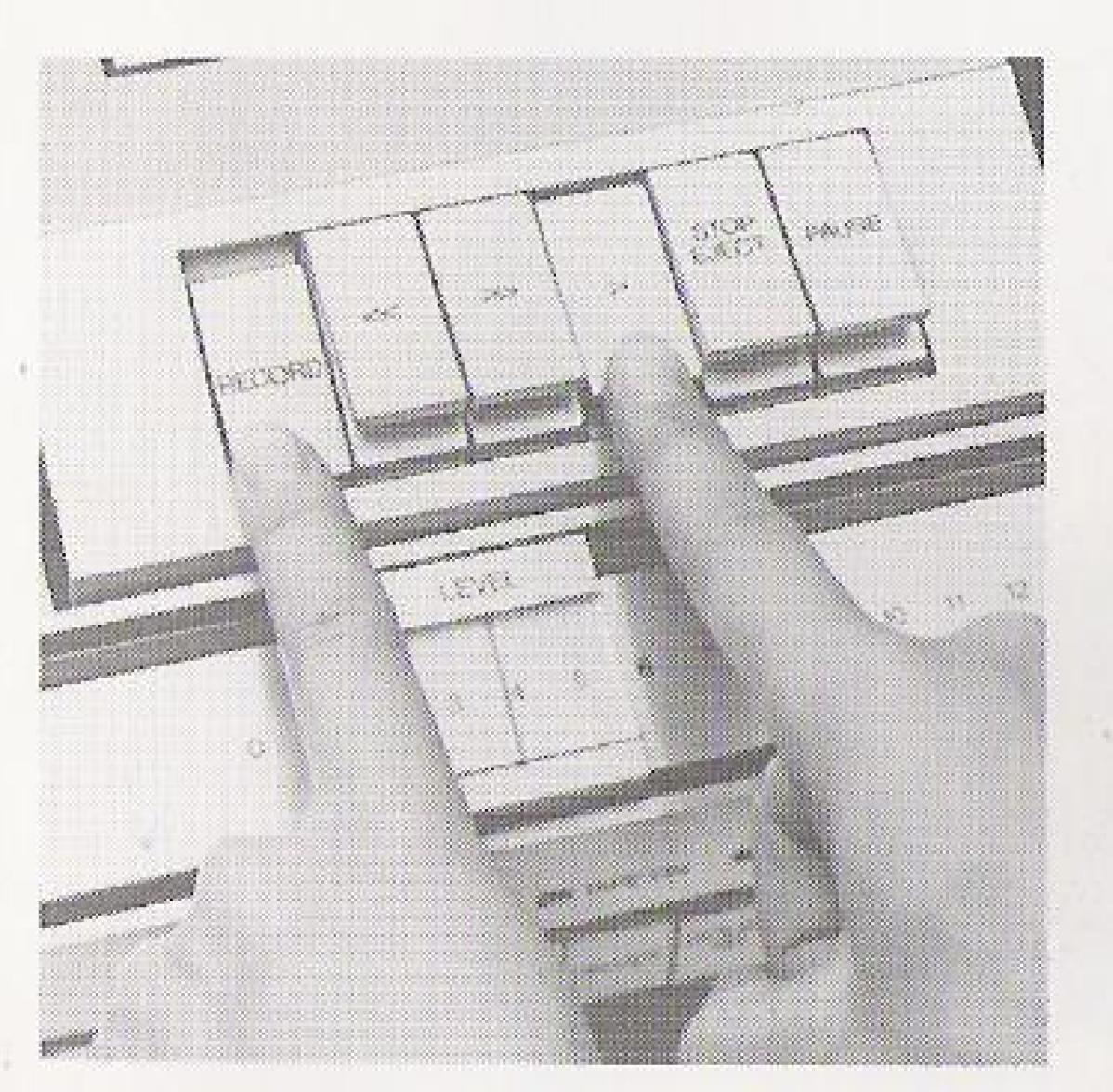
Pause during forward tape motion: Tape stops the first time PAUSE is pressed. Tape motion

continues when button is pressed again. The pause feature may be used during both playback and record.



Counter. To reset, press button marked 0.

Memory. Automatic stop during rewind every time the counter passes 000. Is operative when the M button is depressed, and the counter is placed on zero.



RECORD. First select your program: P1 to P4, FM, LW, MW or PHONO. Keep the RECORD button depressed and thereafter depress forward button. Move the sliding knob towards the right while reading the indicator light: The transition between the green and red sections indicate the limit to the

recording strength (VU 0 dB),

only during brief loud sound

passages.



Microphone Your Beocenter 4600 has provision for connection of a

low-impedance microphone, mono or stereo, balanced or unbalanced.

All recordings will be mono, and recordning from radio or record player is cut off automatically.

Dubbing from external to built-in 4600. tape recorder

Put the "original tape" on the external tape recorder and set it to play back, also depress the TAPE button of your Beocenter 4600. Moreover, set the built-in cassette section to record.

Recording on two tapes simultaneously

Set the radio section of your Beocenter 4600 to the desired FM program or PHONO, and set both the built-in cassette section and the external tape recorder to record.

Playing back from the external tape recorder

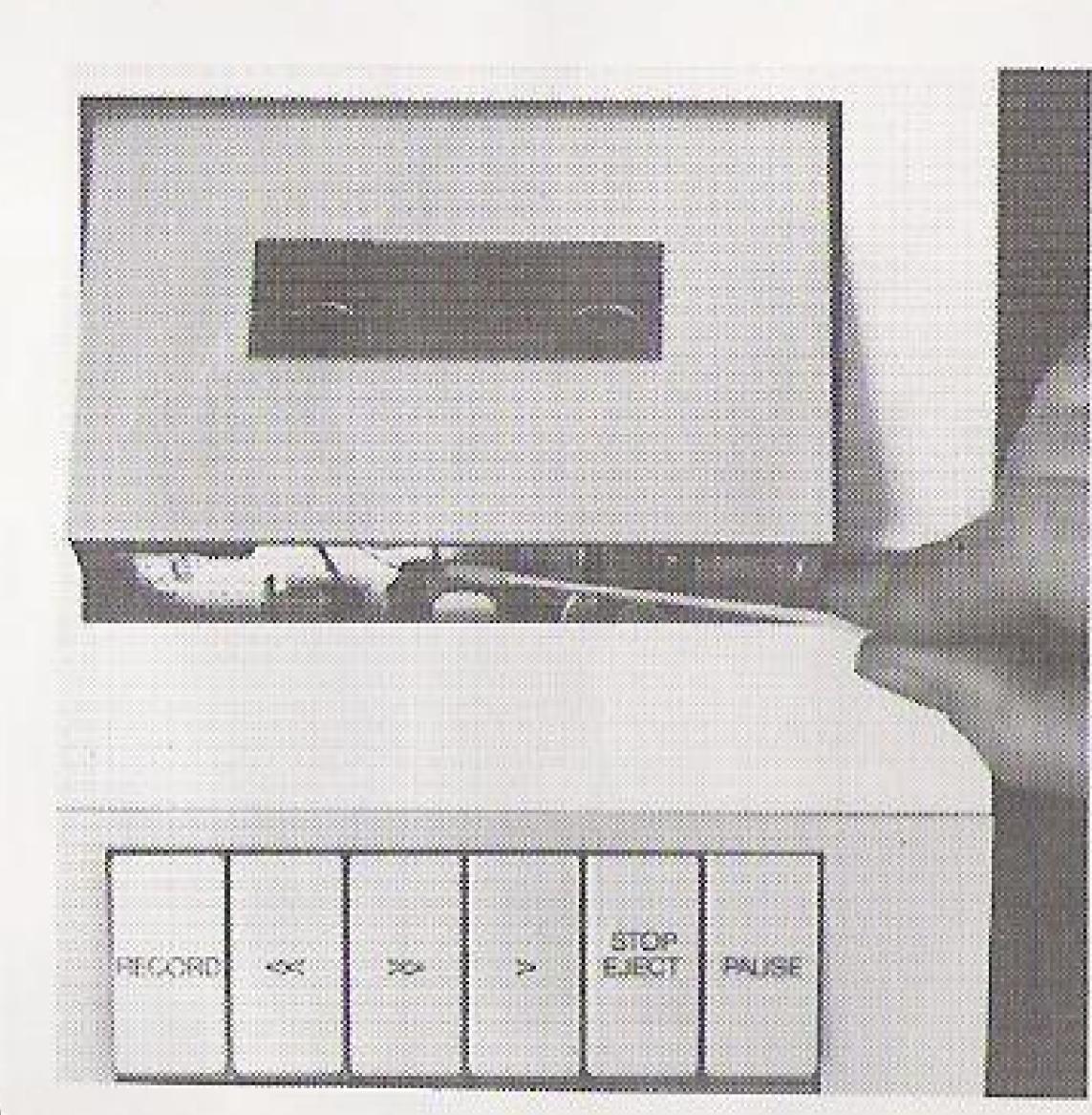
and the red sections should light Depress the TAPE button and the external tape recorder to play back. Turn off the built-in cassette section.

Off-the-tape Monitoring

You can off-the-tape monitoring attack rubber and plastics. 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

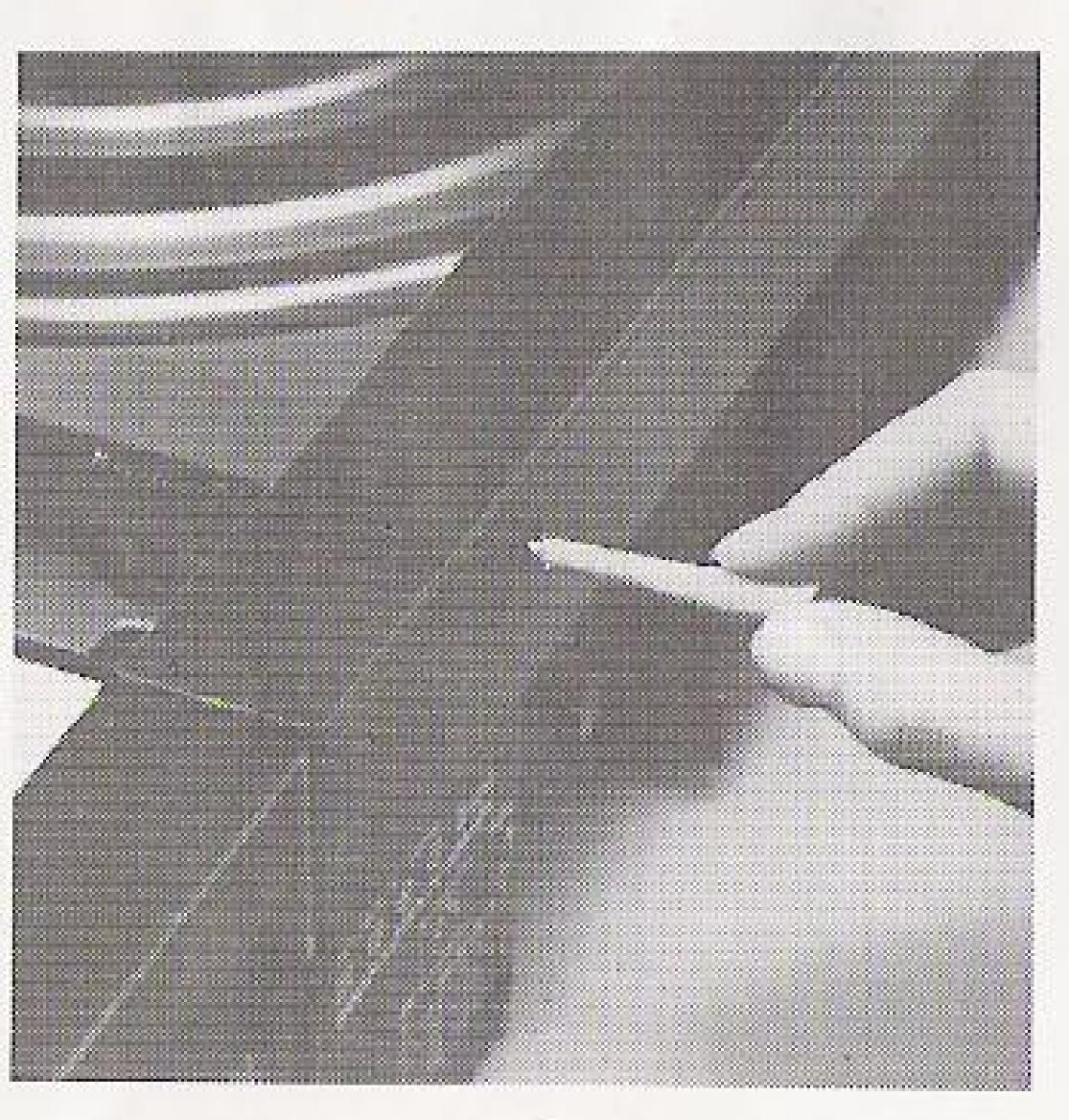
Tape heads. To secure pure clea sound quality, the two magnet heads must be kept free from tape dust. Use one of the



commercially available cleaning liquids for this purpose. Avoid using methylated spirits, which may contain substances that



Headphones socket on the front of the set.



Checking Stylus Force With the stylus force set a 0, the pickup arm should be in balance and able to "float", without moving either up or down (with the stylus quard removed). Readjustmnet, if required, is performed with the adjustment screw of the counterbalance weight. Put a thin screwdriver through a hole in the black rear panel and into the pickup arm.

Turning it clockwise will reduce Stereo headphones plug into the the stylus force; turning it anticlockwise will increase it.

> Replacing the Pickup Cartridge Hold the pickup, firmly with one hand while carefully moving the cartridge from side to side and pulling outwards with the other.

Teak and Rosewood

If the wood surface seem grey and dry you may apply a thin film of teak or rosewood oil, through not more than once or twice a year.

Metal Surfaces

The chassis deck and turntable can usually be kept clean with a dry cloth.

Be careful not to damage the stylus. Put the stylus guard in place before wiping the metal surfaces clean of dust, and before moving or transporting your record player.

Any grease stains on the metal surfaces can be removed with a soft moistened in a cold or lukewarm solution of detergent in water.

Thereafter wipe thoroughly with a dry cloth.

Dust Cover

Ajax Window Cleaner is recommended for cleaning the transparent dust cover. Do not use alcohol as it may dissolve the material.

TECHNICAL DATA	BEOCENTER 4600
Type No.	2631
Power output RMS DIN	2 x 25 watts/4 ohms
	2 x 20 watts/8 ohms
Power output 20 - 20,000 Hz	2 x 20 watts/4 ohms
	2 x 17 watts/8 ohms
Harmonic distortion	< 0.1%
Intermodulation	< 0.15%
Frequency range ± 1.5 dB	20 - 30,000 Hz
Damping factor	> 35
Sensitivity/signal-to-noise ratio	
Pickup input	2.2 mV/60 dB/47 kohms
Tape input	400 mV/60 dB/100 kohm
Tape output	30 mV/100 kohms
Headphones output	Max. 10 V/200 ohms
FM sensitivity stereo 46 dB	< 30 µV/75 ohms
AM sensitivity 20 dB LW	< 90 µV
AM sensitivity 20 dB MW	< 90 µV
Record-player: Pickup	MMC 20 S
Recommended tracking force	15 mN/1.5 gram
Speeds/control range	33 - 45 rpm/ > ± 3%
Wow and flutter	< ± 0.09%
Rumble weighted	> 62 dB
Rumble unweighted	> 42 dB
Taperecorder: Wow and flutter	< ± 0.2%
Speed deviation	< ± 1%
Fast forward and rewind (C60)	85 sec.
Frequency range, chrom	30 - 14,000 Hz
Signal-to-noise ratio, chrom Dolby	> 64 dB
Signal-to-noise ratio, chrom	> 56 dB
Microphone input	0.1 mV/10 kohms
Power supply	110-130-220-240 V
Frequency/consumption	50 Hz/160 W
Dimensions W x H x D/weight	66 x 12 x 37 cm/18 kg
Accessories (additional price)	Table 2033

International Guarantee This Bang & Olufsen product carries a guarantee against defects in workmanship and materials.

It is a national guarantee issued by the Bang & Olufsen. Distributors for the country in which the product it purchased initially.

The terms of this guarantee apply principally to the country of origin but will also be met by any authorised Bang & Olufsen dealer in the other countries in which Bang & Olufsen products are officially marketed. In order to obtain "in guarantee" service whilst in a country other than in which the product was originally purchased, it is essential to ensure that the original Bang & Olufsen guarantee form, which you may claim issued at the purchase of the product, is completed in full and that your copy is presented to the dealer on request for service