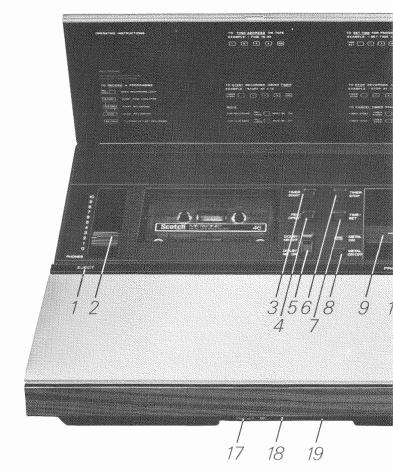
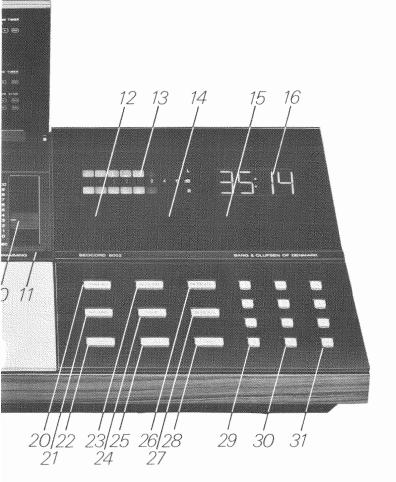
Ta Pl Ai Ri H	arvey	4 4 5 6 7
Si Pi M M	etting UP etting up and connecting	9 9 0

**HOW TO OPERATE BEOCORD 8002** 



- 1. EJECT, opening the cassette holder
- 2. Headphone volume control
- 3. TIMER START, programming the tape start-time
- 4. REC OPEN, ready-to-record
- 5. DOLBY NR switch
- TIMER STOP, programming the tape stop-time
- 7. TIME SET, presetting the clock
- 8. MP, metal tape

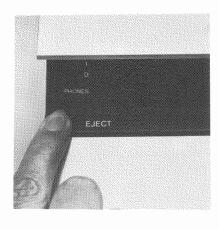
- 9. Recording level, left channel
- 10. Recording level, right channel
- 11. PROGRAMMING, opening the holder panel
- 12. Light indicator REC OPEN
- 13. Peak Programme Meter, drive indicator
- 14. Light indicator RECORD
- 15. Light indicator MEMORY
- 16. Tape position indicator and timer
- 17. Headphone socket

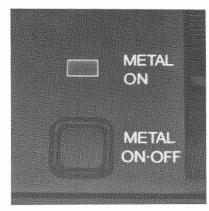


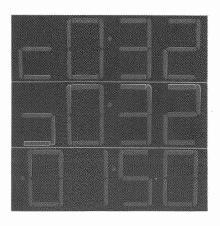
- 18. Microphone and auxiliary socket
- Selector switch: radio/amplifier; mic. or aux.
- 20. STAND-BY switch
- 21. RETURN, erasure of already begun recordings
- 22. Rewind
- 23. RECORD, recording pushbutton
- 24. STOP
- 25. Forward

- 26. MEMORY+, activation of the memory function
- 27. MEMORY—, deactivation of the memory function
- 28. Fast forward
- 29. Programming 0 to 9
- 30. CE, programme cancellation
- 31. GO, end of instruction.









# TAPE PLAYBACK

Place the connected radio or amplifier in the TAPE mode. Pressing EJECT will cause both the

large metal cover and the cassette holder to open. Insert the tape cassette into the holder and press down. Tape type adjustment for ferro, chrome

or metal tape is automatic.

# Metal

If the rear edge of the cassette does not have holes for metal, the indicator light MP ON will not light automatically. Press METAL ON-OFF.

# Start playback

Press >.

# Pause or stop

Press the STOP pushbutton. Playback will recommence from the same position on the tape when is pressed anew.

# Automatic stop

The tape will stop automatically at the conclusion of playback; this also holds true for forward- and rewind.

# Forward wind Press >> .

Stop: press STOP.

# Rewind

Press << . Stop: press STOP.

Pushbuttons >> . << and > may be pressed in arbitrary sequence and without the need for pressing STOP within the sequence.

## PLAYING TIME

STOP pushbutton.

the photo.

Most tape recorders incorporate a tape position indicator that displays an arbitrary multi-digit number - a number that has no direct relation to real time

Beocord 8002 features a tape position indicator that displays tape playback time in minutes and seconds. This allows you to note the virtual playback time of your cassettes. The position indicator will begin automatically at 0.00 when a tape

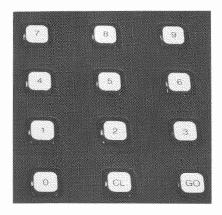
cassette is inserted - regardless of how large a portion of the tape has been wound. As long as the first digit flashes, - as shown in the photo forward wind and rewind will shift 0-00 to that tape position corresponding to where/when you have pressed the

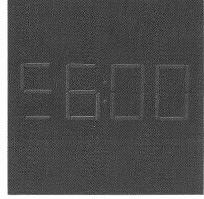
This means that you can - during the

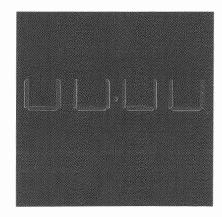
interval of the first few (max. 3 minutes) moments - shift 0-00 tape reeling. As soon as you have read-out 4 digits, say, 00.50, the counter will lock and an eventual rewind to below position 00.00 will reverse the counter and cause it to run in reverse - much the same as a thermometer that shows a temperature below the freezing point.

A point will appear before the number when this occurs - as shown in









# Actual playback time

To achieve maximum utilization of the tape position indicator, time should be measured from the very beginning of the cassette tape.

The time calibration is based on cassettes with the following tape thickness:

C 60 18  $\mu$ m, C 90 12  $\mu$ m and C 120 9  $\mu$ m. When the Beocord 8002 indicates virtual tape time, a precondition is that the recorder must first itself be cognizent of what tape has been inserted – for example, C60 or C90. For this reason the tape will wind forward/reverse several times, automatically. When the correct position is found, two dots (:) will appear midway between the second and third of the four digits.

Two different procedures may be utilized, namely:

Automatic playback from tape beginning
Press 0 and GO.

Automatic playback from the tape position when cassette was inserted Press GO.

Elapsed time is measured from the beginning of the tape.

The tape will automatically reel to that tape position where the cassette was inserted, playback will then commence.

# **AUTOMATIC SEARCH**

If – as an example – a particular recording is begun 3 minutes and 30 seconds from the beginning of the tape: Press 3 3 0 and 60.

The Beocord 8002 will automatically wind to the position desired and then begin playback. Playback will begin 8 seconds before the selected time to ensure that the full recording is reproduced.

If, however, you should wish to stop the tape after 3 minutes and 30 seconds, hold down the GO pushbutton for at least 2 seconds, i.e.

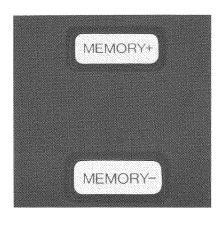
 until the first digits display the pattern shown in this photo.

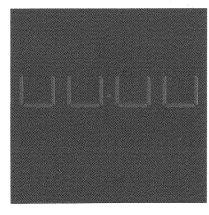
# Incorrect operation

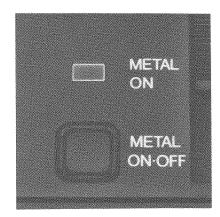
If you press the wrong control and instruct the Beocord 8002 to do something impossible, the pattern shown in this photo will appear.

### Cancellation

If you have keyed-in the wrong digit(s), press CE.







### **MEMORY**

MEMORY+ allows you to introduce a stop point which will function when you actuate ≥ or ≪, but not the > pushbutton.

If, for instance, you have wound to the beginning of a selection of music – a selection you wish to find again in the future:

Press MEMORY+.

A light indicator will flash "MEMORY", when you reel either towards, or away from the memory tape position and when the reeling ceases at the desired position.

"MEMORY" will light without interruption in other recorder functions.
Stop-position may be shifted by simply pressing MEMORY+ anew.
MEMORY is cancelled by pressing MEMORY-.

Dolby NR\*, noise reduction system
Place the DOLBY NR switch to ON
when you playback a Dolby NR
recording and when you wish to record

# Removing a tape cassette

with Dolby NR.

Press EJECT, regardless of what particular function the Beocord 8002 happens to be operating in.

\* Trademark of Dolby Laboratories

# RECORDING

Insert a cassette into the cassette holder and press REC. OPEN.

This pushbutton is your assurance that you do not unintentionally record on a tape and thus erase selections recorded earlier.

A light indicator will show REC. OPEN

and if the tape cassette is itself secured against recording – the tabs at the rear of the cassette have been removed – the position indicator will flicker three times (the pattern shown in the photo) to inform you that recording onto this particular cassette can not take place. This function will be cancelled if

# Tape type

REC. OPEN is pressed.

or metal tape takes place automatically when you insert the cassette. With metal tape the METAL ON indicator lights up. If the rear edge of the cassette does not have holes for metal, press METAL ON-OFF. The Beocord 8002 is adjusted to the following tape

Tape type adjustment for ferric, chrome

types: Ferric: IEC standard, e.g. BASF LH1 Chrome: TDK-SA.

Metal: Scotch Metafine.
Other makes of good quality tape can
be used without affecting reproduction

significantly.

Improved recording dynamics
The Beocord 8002 employs the Dolby
HX Professional recording system,

developed jointly by Bang & Olufsen and Dolby Laboratories.
This system allows us to make better use of the dynamic range of each tape. So that by recording with the Beocord, your ferric tapes, whether new or old, can sound like chrome tapes.
Music with a lot of high notes can be

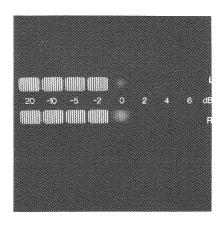
distortion occurs. With ferric and chrome tapes you get a signal content which approaches that of metal tape. Also the recording of low notes is clearer, because the side effects of simultaneous loud high notes are

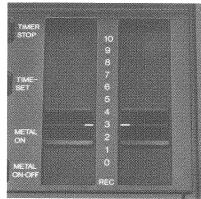
recorded at higher levels before

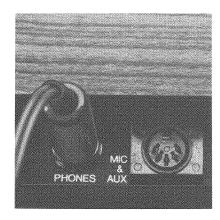
The system operates continuously during recording; it requires no manual control.

eliminated.

Tapes recorded on the Beocord 8002 have the same improved sound quality when played back on other cassette recorders – clearer, truer reproduction of all frequencies, and better dynamics.







# Preparing to record

Choose programme on radio or amplifier. Press RECORD, The Beocord is now in recording-pause position. indicated by RECORD light flashing.

# Peak Programme Meter

Now you can adjust the recording volume with reference to the PPM reading. Move the two REC slider controls until the loud music passages give a PPM reading 0 - +2 dB. This applies to all types of tape, with or without DOLBY NR. The PPM is designed to take into

account the tape's signal receptivity, particularly in the treble range. You get the full benefit of Dolby NR with music passages which give PPM readings below -20 dB. If the music is continuously in the +2 to -20 dB range then Dolby NR remains inoperative

# Recording start

When you are ready to record, press RECORD again.

The RECORD indicator now lights steadily, indicating that recording is in progress.

# Stop or pause

Press STOP.

The tape will not halt instantaneously: A pause of approx. 4 seconds is automatically introduced to ensure a brief interval between recordings.

# Extended recording pause

The 4-second pause between two recorded selections may be extended by merely holding down STOP when you go from recording to pause.

# Continued operation

Recording continues or starts again if the RECORD pushbutton is pressed.

# Automatic "regret" function

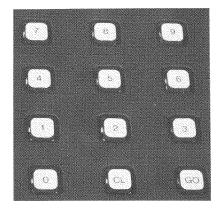
If you should change your mind and no longer wish to record the programme you have begun, then press RETURN. Recording will stop and the tape will reel back to the starting point corresponding to that before recording began (the previous recording pause). RETURN function - rewind to the preceding recording pause - may also be employed after the STOP pushbutton has been used.

# **HEADPHONES**

Stereo headphones may be connected to the PHONES socket on the front panel edge of the tape recorder. Adjust volume level with the separate PHONES slider control, found under the metal panel lid. Headphones may be used during recording as well as during playback.







# TIMER PROGRAMMING Programming for tape playback

If – for instance – you wish to listen to a tape at 12.30 hours: Reel the tape to the desired programme selection

position.

Caution: the REC. OPEN light indicator must not show light. If it does, press REC. OPEN followed by TIMER START.

1 2 3 0 GO.

The tape position indicator shows the desired time and will then return to display playing time.

Press STAND BY.

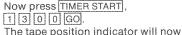
# Programming for unattended recording

If – as an example – you wish to record a radio broadcast at 13.00 hours:

Wind the tape to the point at which the recording is to be stored. Check that REC. OPEN indicator is lit; press

REC. OPEN if required.

Tune in the radio receiver to the desired programme and adjust the RECORD slider control to that level you use to record radio programmes.



show the desired hour and will then return to display playing time.
Press STAND BY.

# **Programming for stop**

If – for example – you wish the Beocord 8002 to go to stand by at 14.00 hours: Whether the tape recorder is in the process of recording or playback at that particular time, has no bearing. Press TIMER STOP, 11 [4] [0] [0] [GO].

# Check

You may at any arbitrary point in time check the programme status of the Beocord 8002:

Press TIMER START. The first digits should flash.

Press TIMER STOP. The last digits should flash.

# Cancelling

If you do not wish to make use of an existing programme you may cancel it in the following manner:

Press [TIMER START], [0], [GO], or [TIMER STOP], [0], [GO].

# STAND BY

When not in use, the Beocord 8002 may be turned off by pressing STAND BY.

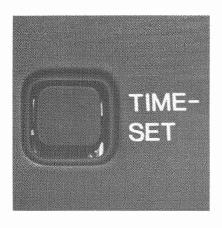
# Automatic stand by

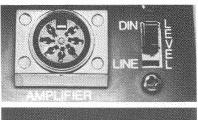
Beocord 8002 will go to stand by automatically,  $\frac{1}{2}$  hour after the conclusion of a tape cassette.

## **SETTING UP**

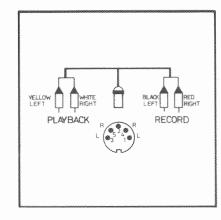
Your Beocord 8002 should be positioned on a horizontal surface – either a table or a shelf.
Depth measurement, including cables

and connectors is 30 cm; width measurement is 53 cm.
Avoid placing the Beocord 8002 in direct proximity of a radiator – where temperature is considerably higher than that in other parts of the room.









### Power mains

Beocord 8002, type 4844 is designed for 220 volt 50–60 Hz operation and can function – without modification – on 190 to 240 volts.

# PRESETTING THE ELECTRONIC CLOCK

An electronic clock is incorporated into the design of the Beocord 8002. The purpose of this clock is to start and stop the tape recorder at predetermined times. Normally, the clock is not visible: if TIME SET is pressed the time counter will display actual time. Indication is given in the form of the flashing point located lowest-midway. between the digits. When you connect your Beocord 8002 to the power mains. the clock will start with 00:01. Setting the clock to the actual hour is done as follows: If - for example - your watch shows that the time of day is 13.30: Press TIME SET and digits 1 3 3 1. When your watch shifts to 13.31, press GO.

In the event of a power mains failure, reset the electronic clock again. Check the clock reading, press TIME SET and conclude by pressing GO.

## Connecting to Beomaster 8000

Connect cable 6270222 to TAPE 1 socket on the Beomaster 8000.
Connect other end of cable to AMPLIFIER socket on the back of the Beocord 8002. Check that the LEVEL switch is at LINE, and the switch on the front of the cassette recorder is at AMPLIF.

Other receivers with DIN plug
Use cable 6270222 with LEVEL switch
at DIN.

## Phono plugs

The Beocord can also be connected to a receiver or amplifier with RCA phono plugs. Use cable 6270215 with LEVEL switch at LINE.

When using the Beocord 8002 in conjunction with other radio receivers or amplifiers, the two outermost pins must be removed.

Turn anti-clockwise with a small screwdriver.

#### MPX filter

The switch on the base of the Beocord should as a rule be switched to OUT. The IN position is designed for recording FM stereo broadcasts from receivers with insufficient multiplex signal muting.

All Beomaster receivers are provided with effective filters so the switch can remain in the OUT position.

# MICROPHONE AND AUX Recording microphone

The MIC socket on the front of the Beocord is designed for a stereo microphone with 5 point DIN plug. An adaptor cable type 6271160 can be supplied for a mono microphone with jack plug. Recordings will be mono with the two channels combined. A double adaptor cable type 6271159 can be supplied for stereo recordings using two mono microphones with jack plugs.

Microphone data: Sensitivity 0,1-3 mV, 400-1500 ohms.

# **AUX** input

The same socket may be employed as an auxiliary input – for instance, for copying from another tape recorder. Standard cable type 0961014 is used between the two tape recorders and the switch is placed in AUX. (Sensivity: 120 mV/1.2 M ohms).

### Remote Mains Switch

The programming for tape playback and recording also applies when the Beocord 8002 is used in connection

with the Beomaster 8000.

If you wish to use the Beocord 8002 with another radio receiver, you can purchase a Remote Mains Switch, type 4002, which can switch the receiver on and off.

### International Guarantee

This Bang & Olufsen product carries a guarantee against defects in work-manship and materials.

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

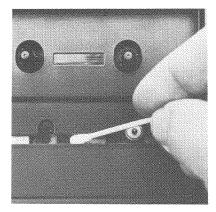
The terms of this guarantee apply principally to the country of origin but will also be met by any authorised Bang & Olufsen dealer in the other countries in which Bang & Olufsen products are officially marketed.

In order to obtain "guarantee" service

chased, 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

whilst in a country other than that in

which the product was originally pur-



# MAINTENANCE AND UPKEEP Tape head

the magnetic heads and capstan axle must be kept free of tape dust. Use a rinsing fluid designed for this application.

To ensure pure and clear sound quality,

Avoid the use of denatured alcohol; it may contain ingredients hostile to rubber or plastic.

### Surfaces

Oily spots that may appear should be removed with a soft, dry cloth.

#### Teak and rosewood

If wood surfaces seem off-coloured and dry, you might apply a thin layer of teak or rosewood oil – though never more than twice yearly.

# For the UK market only.

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 con-

nected correctly. If you are in any doubt, consult a qualified electrician. This set requires a **3 Amp.** fuse in the mains plug.

Type No.	4844		
Compact cassette	C46-C60-C90-C120		
Tape head	Sendust	THE RESIDENCE OF SECURITIES AND ADDRESS OF S	
Noise reduction	Dolby B	POPPER DE LOCAL PERSONNEL AL ANDREAD AND AND AND AND AND AND AND AND AND A	
Tape switch	Aut. ferro/chrom/metal	AND ADDRESS OF THE PARTY OF THE	
Wow and flutter DIN	<±0.1%		
Wow and flutter WRMS	<0.045%		
Speed deviation	<±1%		
Fast forward and rewind C60	70 sec.		
Frequency range metal/chrome/ferric	20-20.000 Hz ±3 dB		
Signal-to-noise ratio metal Dolby NR	>68 dB		
Signal-to-noise ratio chrome Dolby NR	>66 dB		
Signal-to-noise ratio ferric Dolby NR	>64 dB		
Signal-to-noise ratio metal	>60 dB		
Signal-to-noise ratio chrome	>58 dB		
Signal-to-noise ratio ferric	>56 dB		
Drivability metal	>- 5 dB	A CONTRACTOR OF THE PARTY OF TH	
Drivability chrome/ferric	>-10 dB	1	
Distortion metal	<2%	AAA AA	
Channel separation	>35 dB		
Erasure	>70 dB		
Erase frequency	96 kHz		
Radio input DIN/LINE	1 mV/10 kohms – 40 mV/470 kohms		
Microphone input	0.1 mV/3 kohms		
AUX input	100 mV/1.2 Mohms		
Radio output adjustable	1000 mV(500-2000 mV)/10 kohms		
Headphones	Max. 10 V/56 ohms		
Power supply	220 volts		
Power frequency	50-60 Hz		
Power consumption	Max. 50 watts		
Dimensions W×H×D	53×13×30 cm		
Weight	7.5 kg		

BEOCORD 8002

**TECHNICAL DATA** 

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Royal Electronics Limited 48 Hanamal Street Haifa Phone: 4-672224

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The East Asiatic Co., Ltd. 5th Floor, Nittochi Blda. 4-1. Kasumigaseki 1-chrome Chivoda-ku Tokyo 100 Phone: (03) 508-9841

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**Photocentre** P.O. Box 3115 Ruwi Phone: 702823

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Gulf Showroom P.O. Box 786 Doha Phone: 24631

#### SINGAPORE

Guthrie Singapore Private Ltd. 39 Sixth Avenue **Bukit Timah** Singapore 1027 Phone: 662555

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