

Your BeoVision MX 4002 is the first TV dedicated to the BeoLink system.

Through BeoVision MX 4002, you can listen to any source of music from the main audio system and view any source available in your main video system; video recorder, satellite or any other Bang & Olufsen audio/video product.

You can place the TV in various positions in whatever room you prefer, wall mounted in the kitchen, on the floor of the study or on a motorised stand in the bedroom.

No matter the circumstance, just use your Beo4 remote control as you use it with your main audio/video system.

This guide explains how!

Before you start...

The separate Setting-up guide enclosed with the MX 4002 describes in detail how to place, install and maintain your TV.

This guide explains how to operate your main Bang & Olufsen system from the room where you have placed your BeoVision MX 4002, using the Beo4 remote control.

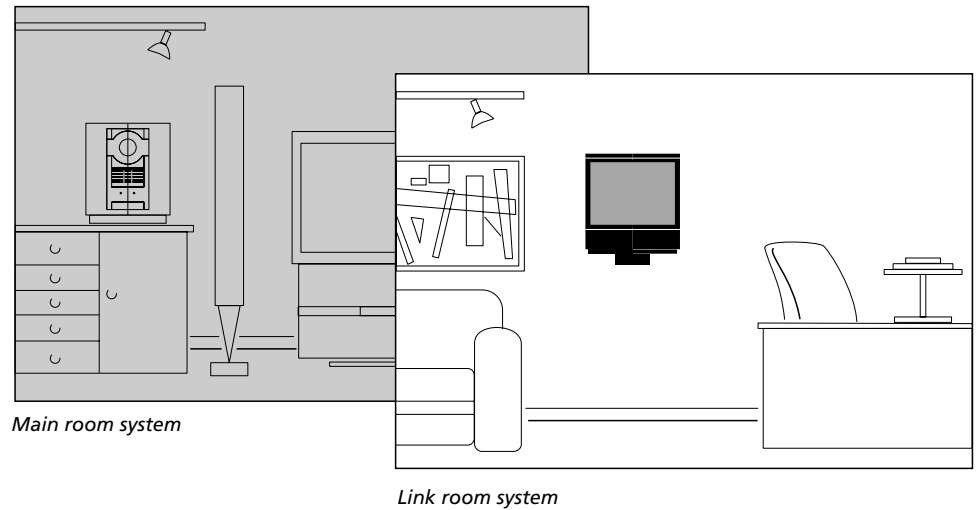
For instructions regarding equipment connected to MX 4002, please refer to pages 28-31.

Note: Your MX 4002 and your main Bang & Olufsen system must be interconnected by a Bang & Olufsen BeoLink installation.

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Your BeoVision MX 4002 gives your main Bang & Olufsen system an extra dimension:

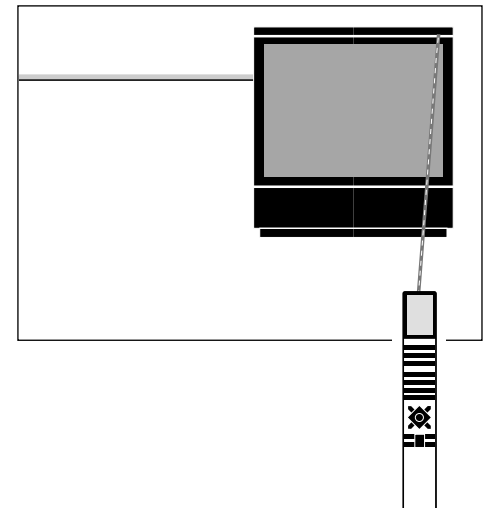
- On your TV, you can watch any source you like from your main system.
- Via the speakers in your TV, you can listen to any audio source you like from your main system.
- You can control a number of daily functions in your main system from the room where your MX 4002 is placed.
- And, you can use your MX 4002 on its own.



All you need is the Beo4 remote control for the TV, and your main system can be used in your link room as well*.

*Note: Your main Bang & Olufsen audio-, video-, or AV system and your BeoVision MX 4002 must be interconnected by a BeoLink installation.

You can operate your MX 4002 TV as usual using the Beo4 remote control. But your MX 4002 is also your interface with your main system: Your remote control commands are received by the TV, and – via your BeoLink installation – the TV communicates your instructions to your main Bang & Olufsen system.



Beo4 remote control

The Beo4 remote control is the key to all the functions in your BeoVision MX 4002.






Apart from operating your MX 4002 TV, Beo4 also enables you to switch on any source you like in your main Bang & Olufsen system and watch or listen to it on the TV and include your MX 4002 TV speakers in a Timer Play programming of your main system.

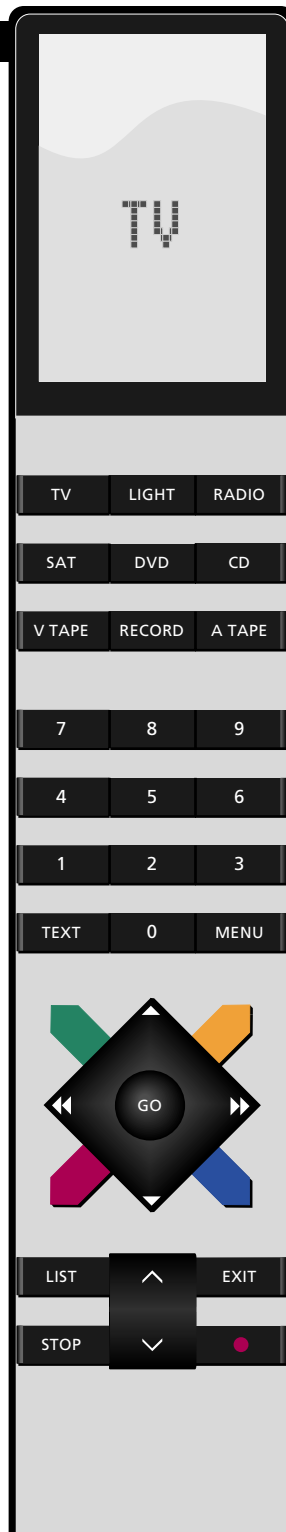
Via your MX 4002, you can then control the daily playback functions for the source you have chosen – just as if you were operating your main system directly, using the Beo4 remote control.

Please note: The extra Beo4 functions that you call up via the LIST button appear in a preset order. You can change this order in which they appear on the Beo4 display, if you wish. Please refer to Beo4's own User's guide and the chapter 'Rearrange the Beo4 LIST functions' for further information.

Nice to know about Beo4 buttons...

In the step-by-step operating sequences shown in this guide, the buttons on the Beo4 and cues in the Beo4 display will be illustrated like this:

-  **TV** Rectangular buttons for source control, numbers and dedicated functions
-  Buttons within the star-shaped button for stepping and winding, and operation of on-screen menus
-  **GO** The circular GO button in the middle of the star-shaped button for accepting and storing instructions
-  The coloured buttons in the star-shaped button are used for special functions, it will be explained in this guide when and how to use them
-  **LIST** The LIST button always requires that you press it repeatedly to reveal more functions or cues from the Beo4 list of functions on the Beo4 display
- STAND** Cues or functions in the Beo4 display appear when LIST is pressed repeatedly, they represent extra functions. The display also shows a cue for the source buttons you press



The Beo4 remote control

This guide explains how to operate your BeoVision MX 4002 using the Beo4 remote control.





In the column to either the far left or right of the page, the operation in question is shown as a sequence of buttons which correspond to the buttons on your Beo4 remote control. This sequence is accompanied by a short instruction.

In most cases, the instructions in the button sequences are supported by illustrations of the menus on the TV screen.

The operation in question is described in the main text.

The remarks e.g. 'Note:...'; which are differentiated from the main text have various functions which include:

- Troubleshooting; describing specific circumstances which may occur during an operation
- Providing additional information, such as detailed information about the contents of the menus
- Informing about procedures which may need to be fulfilled before an operation is commenced.

	Switch on the TV
then	
	Call up the Main menu
	Press repeatedly to light up <i>Setup</i> in red
then	
	Press to call up the Setup menu
	The Setup menu appears, then...

Example of a sequence of buttons

Freq	Fine	System	Decoder
210	+1	B/G	Off

Example of a fill-in menu

The first item in the MX 4002 Setup menu, *Tuning*, calls up the menu which enables you to tune in to TV stations and store them on program numbers of your own choice. ...

Example of a Main text

Note: See the next page for further information about the items in the tuning menu. ...

Example of a remark or 'Note' text

Help to start using the on-screen menus

Operation of the more advanced functions in your MX 4002 is guided by on-screen menus. The main TV menu introduces you to all these functions. The main menu must always be called up first, before you can access the other menus.

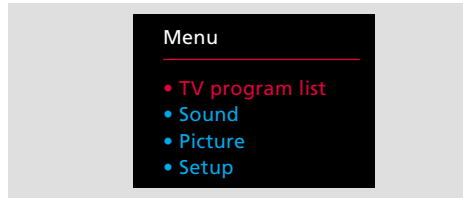
Each item in the main menu represents another menu/function:

- **TV program list...** calls up the program list
- **Sound...** calls up the sound adjustment menu
- **Picture...** calls up the picture adjustment menu
- **Setup...** calls up the *Setup* menu for the MX 4002, where you can choose menus for tuning as well as menus where you must preset the system, such as setting the clock or a stand position

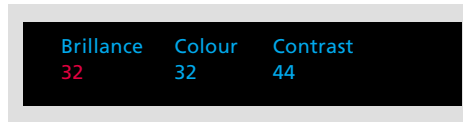
Fill-in menus...

Some of the menus you call up are menus in which you must fill in information.

In *fill-in* menus, you must enter the information required for the operation, in e.g. the *Tuning* menu, it is, among other things, required that you search for a station.

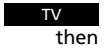


The main menu – when you call up the main menu, the first item in the menu is lit up in red. The items are lit up in red when you select them.



Example of a fill-in menu – the menu is for picture adjustment. You change a preset setting or fill in the necessary information.

Switch on the TV



then

Call up the main menu



The main menu appears...

Press to move the red text/cursor to the other items in the menu



Make sure that the item/function you want is lit up in red, then...

Press to call up the menu for that particular function



A fill-in menu appears...

Using fill-in menus...

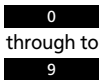
Press to reveal options for the individual items



or

Or

Key in the information, using the number buttons



Press to move from item to item in the menu



or

When you have entered all the relevant information...

Press to store the information



Press to return to the previous menu without storing what you entered



Press to remove the menus from the screen



Tuning in TV stations

MENU Press to call up the main menu

The main menu appears...

▼ Press until *Setup* is lit up
then

GO Press to call up the menu

The Setup menu appears...

GO Press to call up *Tuning*

The Tuning menu appears, Freq is lit up already ...

then

▲ Press to let the system search for
or
TV stations

▼

2
1
0 Or use the number keys to key in an
exact frequency, e.g. 210 Mhz

Fill in the necessary information in
this first menu...

▶▶ Press to move to the other items
or
in the menu

◀◀

▲ Press to reveal options for the items
or
in the menu;

▼

then

GO Press GO to store and move to the
second Tuning menu

The second Tuning menu appears...

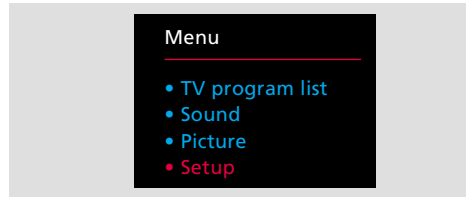
then

Fill in the characteristics you want
for your station and move to
Store...

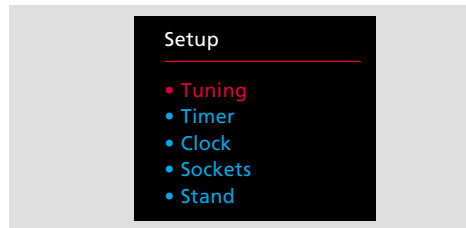
then

GO Press GO to store your station

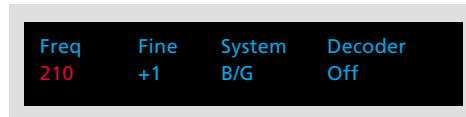
EXIT Press to remove the menus



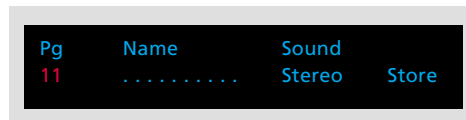
The main menu



The Setup menu – provides access to functions such as, Timer sound, setting the clock, registering TV setup and presetting positions for the stand as well as Tuning.



The first Tuning menu – is mainly for the actual tuning of stations. Decoder only appears, if a decoder has been registered for your TV.



The second Tuning menu – allows you to add characteristics to your station such as a program number and name.

Before you start...

Make sure that you select the appropriate broadcast system in the Tuning menu before you start tuning in channels. Please note that the TV's are equipped to receive the appropriate broadcast system, only some TV's offer more than one broadcast system.

To be able to watch any programmes on your MX 4002 TV, you must tune in to the stations you want that are available in your area. You must call up the *Tuning* menu to access the tuning function.

The tuning function consists of two menus. A menu for the actual tuning in and a second menu where you must fill in the required information regarding your station, such as program number as well as choose any other characteristics you want for the individual station. Repeat this procedure for all the stations you want to tune in.

See the following page for further information about the individual items on the two *Tuning* menus...

What's on the first *Tuning* menu...

Freq

The frequency of the stations. You prompt the TV to search for a station. The tuning stops at the first station producing an acceptable signal. If you wish to continue searching, press ▲ or ▼ again. If you know the exact frequency, you can key it in directly*.

*Note: See the list on page 11 for a conversion of TV channel numbers to frequencies.

Fine

Fine tuning of a station. The TV automatically tunes to the best possible picture. If neighbouring channels blur the picture slightly, fine tuning may be necessary.

You fine tune by 1 step below or above the standard frequency.

System

TV broadcast system – select the TV broadcast system which is available or most appropriate.

For example:

B/G PAL/SECAM B/G system
L SECAM L system
I PAL I system

Note: Not all TVs are equipped to receive all systems.

Decoder

If you need a decoder for a station – the TV can cut in a decoder automatically for the station in question. *On* indicates cutting the decoder in and *Off* no decoder. In order for *Decoder* to appear on the menu, however, you must register your Decoder, see *Registering extra equipment*, pages 34-35 for further instruction.

What's on the second *Tuning* menu...

Pg

Program number – you can use the program numbers 1-59. The indication -- shows that the frequency has not already been tuned in to.

If the station/frequency has already been stored, a program number appears under *Pg* when you call up the second tuning menu.

Name

A name may contain 10 characters (indicated by the 10 dots in the menu), including the letters from A to Z, numbers and full stop. The first of the 10 dots blinks, indicating that you can start “writing” a name.

You must reveal the characters for the positions you wish to fill in. Press ▲ until the letter you want is revealed, press ►► to move to next position and press ▲ or ▼ to reveal letters. To switch from upper to lower case, or vice versa, press 0.

When you start “writing” a name, the dots disappear. The name is automatically transferred to the program list. See the next page for further details of the program list.

Every time you select a station you have named, the name appears briefly on the screen.

Sound

Several types of sound may be available for a TV station e.g. both stereo and mono sound, or two or three different languages. You can choose to store a specific type of sound or language with your station.

The options are...

<i>Mono</i>	Mono sound
<i>Stereo</i>	Stereo sound
<i>Mono-1</i>	Language 1 – mono
<i>Mono-2</i>	Language 2 – mono
<i>Mono-3</i>	Language 3 – mono
<i>Stereo-2</i>	Language 2 – stereo

Store

Finally, accepting *Store* stores your station and returns you to *Tuning* in the *Setup* menu. You still have an opportunity, though, to remove all the data you have entered by revealing *Clear* instead of *Store* in the menu. Use ▲ or ▼ to reveal *Clear* instead of *Store* and then press GO.

Clearing a stored station...

If you want to clear a station, you have tuned in already, switch on to the program number you want to clear, then call up the second *Tuning* menu as explained on these two pages. Once the menu appears, make sure the correct program number is displayed, move to *Store* and press ▼ to reveal *Clear* instead of *Store* and press GO.

Calling up the program list

MENU Press to call up the main menu

The main menu appears, TV Program list is lit up already

then

GO Press to see the TV program list

The TV program list appears...

▶▶ Press to see the pages of the list

or



Key in the number of the station you want to watch, for example 5

5

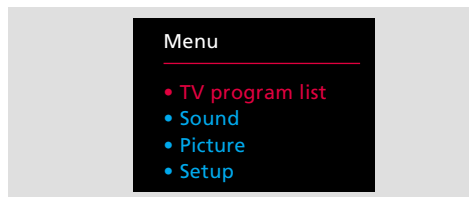
The program number you selected is indicated on the menu...

or

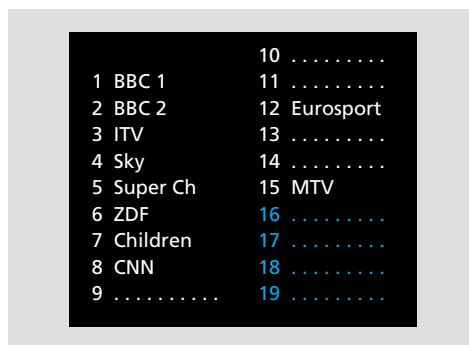
TV Press to leave the program list and return to the station you were originally watching

Or

EXIT Press to leave the program list



The main menu



TV Program list, the program numbers 1-19 are listed on-screen.

A light blue dotted line indicates that a station has been stored on the particular number, but it has not been named.

A dark blue dotted line indicates that the particular program number is not in use and cannot be selected.

All the stations stored in your TV appear in a program list.

There are three pages with the numbers 1-19, 20-39 and 40-59, listing the program numbers and their names*, if any such exist. You will always see the page where the station you are currently on is listed.

If you want to see one of the stations, currently listed on the screen, simply key in the appropriate number, or, press TV to return to your current station.

*Note: If you want to see the name of the station you are currently watching without calling up the program list, press TV.

Italy		France		VHF		UHF		UHF		UHF	
Channel designation number	On-screen display MHz	Channel designation number	On-screen display MHz	Channel designation number	On-screen display MHz	Channel designation number	On-screen display MHz	Channel designation number	On-screen display MHz	Channel designation number	On-screen display MHz
A	53	FA	47	E2	48	S15	259	21	471	49	695
B	62	FB	55	E3	55	S16	266	22	479	50	703
C	82	FC1	60	E4	62	S17	273	23	487	51	711
D	175	FC	63	E5	175	S18	280	24	495	52	719
E	183	F1	176	E6	182	S19	287	25	503	53	727
F	197	F2	184	E7	189	S20	294	26	511	54	735
G	201	F3	192	E8	196	S21	303	27	519	55	743
H	210	F4	200	E9	203	S22	311	28	527	56	751
H1	217	F5	208	E10	210	S23	319	29	535	57	759
H2	224	F6	216	E11	217	S24	327	30	543	58	767
				E12	224	S25	335	31	551	59	775
				S01	69	S26	343	32	559	60	783
				S02	76	S27	351	33	567	61	791
				S03	83	S28	359	34	575	62	799
				S1	105	S29	367	35	583	63	807
				S2	112	S30	375	36	591	64	815
				S3	119	S31	383	37	599	65	823
				S4	126	S32	391	38	607	66	831
				S5	133	S33	399	39	615	67	839
				S6	140	S34	407	40	623	68	847
				S7	147	S35	415	41	631	69	855
				S8	154	S36	423	42	639		
				S9	161	S37	431	43	647		
				S10	168	S38	439	44	655		
				S11	231	S39	447	45	663		
				S12	238	S40	455	46	671		
				S13	245	S41	463	47	679		
				S14	252			48	687		

Australia	
Channel designation number	On-screen display MHz
0	46
1	57
2	64
3	86
4	95
5	102
5A	138
6	175
7	182
8	189
9	196
10	209
11	216

This list of frequencies gives you the usual channel designations and their corresponding frequencies.

How to set the clock...

MENU Press to call up the main menu

The main menu appears...

▼ Press until *Setup* is lit up
then

GO Press to call up the *Setup* menu

The Setup menu appears...

▼ Press until *Clock* is lit up
then

GO Press to call up the *Clock* menu

The Clock menu appears...

If Teletext is currently transmitted, you can synchronise with Teletext time...

then

▶▶ Press to move to *Text time*

then

▲ Press to display the current program number

The program number appears under *Text time...*

then

GO Press GO to synchronise the time

The Clock menu appears again...

then

GO Press GO to store the time

If no Teletext time is available, *No Text time* appears under the item *Text time...*

then

0 Use the number keys to key in the correct time

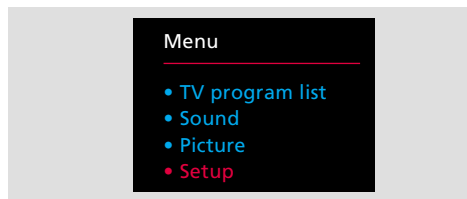
through

9

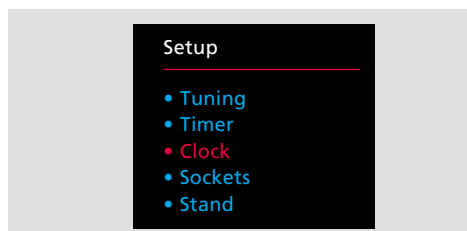
then

GO Press GO to store the time

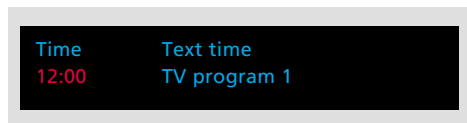
To set the clock yourself without using Teletext, see the button sequence on the following page...



The main menu



The Setup menu



The Clock menu – on the menu, the time is now 12 o'clock pm, and it is synchronised with your TV program 1.

You have to set the 24-hour clock in your MX 4002 TV to the correct time.

If the station you are on transmits Teletext, you can synchronise with Teletext time. This means that the TV clock is always in exact accordance with the Teletext time*.

To do so, call up the station or program number whose Teletext time you want synchronise with before you call up any of the menus.

If the TV station does not transmit Teletext, use the number buttons on Beo4 to set the clock manually.

Likewise, you must set the clock manually if you choose to disable Teletext time.

See the following page for information of the individual items on the menu...

*Note: The clock in your TV will automatically be set to the correct time when, for example, the official time changes from Winter to Summer time. Even if power failures occur, or if the TV has been unplugged from the mains, you don't have to set it again.

What's on the *Clock* menu...

Time

The time is indicated in hours and minutes, for example 17:55 for five minutes to six pm.

Text time

This indicates whether the clock is synchronised with Teletext time or not. The first time you call up the *Clock* menu, the following displays are possible for this item:

TV program 1... appears if you choose to synchronise with Teletext and indicates the station, e.g. TV program 1, whose Teletext you are synchronising with.

No Text time... appears if no Teletext time is available from the station you are currently watching.

Off... indicates that you have chosen not to synchronise with Teletext time.

Note: If you, after having synchronised the time and stored your clock, switch over to another station and call up the *Clock* menu again, the displays will include an indication of the station you are currently watching and the station you synchronised with previously.

Alternatively, if you choose not to use the Teletext time...

Press to move back to *Time*



then

Use the number keys to set the time yourself

0

through

9

then

Press GO to store it

GO

Press the remove the menus

EXIT

Checking the time...

You can also use the TV clock to check and display the time when you are watching TV.

Press LIST on Beo4 until CLOCK is displayed on the Beo4 display and then press GO to display the time on the TV screen permanently, press GO again to remove the clock display again.

Presetting a stand position

To preset an On position yourself...

MENU Press to call up the main menu

The main menu appears...

▼ Press until *Setup* is lit up
then

GO Press to call up the *Setup* menu

The Setup menu appears...

▼ Press until *Stand* is lit up
then

GO Press to call up the *Stand* menu

The Stand menu appears...

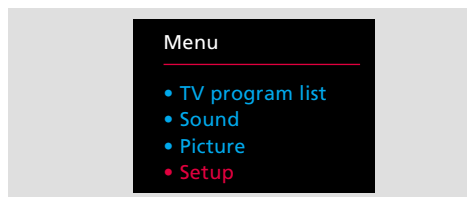
then
▶▶ Press to turn the TV to your
or
preferred position

◀◀

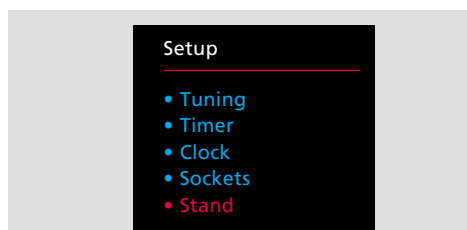
Or
1 Use the number keys 1-9 to select
through a preset stand position, 1 is the
9 utmost left position and 9 the
utmost right position

then
GO Press GO to store it

EXIT Press to remove the menus



The main menu



The Setup menu



The Stand menu – prompts you to turn the TV to your desired position

If your MX 4002 is mounted on a motorised stand or base, the TV will turn to a preset position when you switch it on.

You can, however, preset a position yourself so that the TV automatically turns to a position which suits your favourite viewing angle.

To do so, call up the *Stand* menu, turn the TV and choose the *On* position you want the TV to turn to and store it.

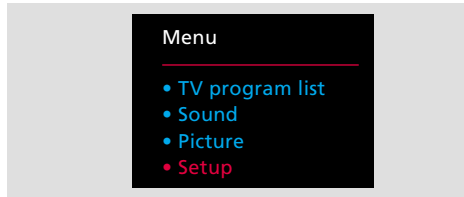
To check that it turns to the correct position, switch the TV to standby and switch it back on again.

Switching Timer sound to on or off...

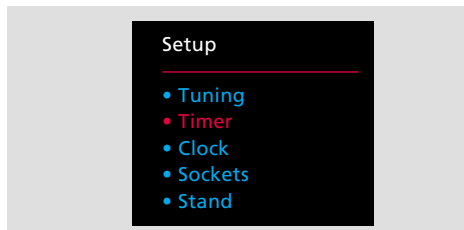
If your MX 4002 is a part of a BeoLink system, you can choose to include your MX 4002 in a Timer play programming, made on your main room system. On MX 4002, you get sound only.

To do so, call up the *Timer* menu – choosing *On* means that the TV speakers will be cut in when the Timer Play programming is being executed. Choosing *Off* means not cutting them in.

*Note: Please contact your Bang & Olufsen dealer for further information about BeoLink systems.



The main menu



The Setup menu



The Timer menu – the *Off* or *On* options decide whether sound is to be distributed to the TV speakers from a Timer play that you have made on your main room system.

Press to call up the main menu



The main menu appears...

Press until *Setup* is lit up



then

Press to call up the *Setup* menu



The *Setup* menu appears...

Press until *Timer* is lit up



then

Press to call up the *Timer* menu



The *Timer* menu appears...

Press to set to *On* or *Off*



or



then

Press GO to store it



Press to remove the menus



Using your link TV

The operations described on this page are primary functions which you will be using daily, either from your MX 4002 or from your main Bang & Olufsen system.

You can watch TV in your Link room, or you can switch on any source you like (audio/video) from your main system and watch it on your MX 4002 TV, or listen to it via the speakers in your TV.

To carry out these operations just press the appropriate buttons on the Beo4 remote control.

If, for some reason, you want to watch a TV programme from your main TV for example a decoded programme, press LIST until LINK* is displayed, then TV.

For details of how to use Teletext, please refer to *Teletext*, pages 18-22.

*Note: In order to display LINK on Beo4, you must add the function to the Beo4 list of functions, please refer to Beo4's own User's guide and the chapter, *Customizing your Beo4*, for further instruction.

Adjusting sound...

While you are watching or listening to a source from your main system on your MX 4002, you can adjust the sound in your TV speakers, without interfering with your main system:

- \wedge or \vee raises or lowers the volume level
- Press the volume button right on the middle to silence the speakers immediately. Press again to recall the sound.


















To make any further adjustments to the sound (or to the picture) in your TV, please refer to *Picture and sound*, pages 23-26.

Adjusting the position of your MX 4002...

If your TV is mounted on a motorised stand or base, the TV will turn to a preset position when you switch it on. You can preset such a position yourself, see page 14 for further instruction.

You can turn the TV yourself by pressing LIST until STAND is displayed on Beo4, now press \lll or \ggg to turn. The TV can be turned by up to 35 degrees to either side.

You can, furthermore, turn the TV to 9 different preset positions, use the numbers 1-9 on Beo4, 1 is the utmost left position and 9 is the utmost right position. Pressing 0 will return the TV to the preset *On* position.

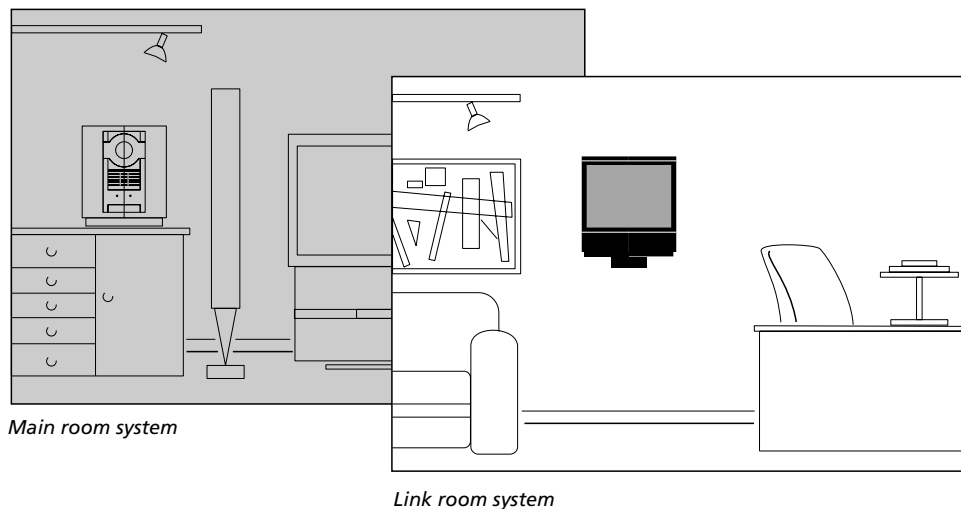
	Switches on your TV Then operate the TV as usual
<hr/>	
Main video sources...	
	Switches on to satellite TV
	Starts the video tape recorder
	To watch TV programmes from e.g. decoded TV program numbers Press until LINK* is displayed then
	Press to start watching TV from the main system
<hr/>	
Main audio sources...	
	Switches on the radio
	Starts the CD player
	Starts the audio tape recorder
<hr/>	
	Press to step through your program numbers or tracks on a CD or on a video- or audio tape
	
	Alternatively, key in the exact program or track number you want
	
<hr/>	
	Press to pause your CD player, audio or video tape recorder
	Rewinds a tape; searches backwards on a CD
	Fast forwards a tape; searches forwards on a CD
	Press to resume playing
<hr/>	
	Press to switch off your TV Press for 2 seconds to switch off your main system

Main room system and link room system

- If your main Bang & Olufsen system is in standby when you switch it on via your TV, you will only get sound and pictures on your TV – neither the speakers, nor the TV screen in your main system will be cut in.
- If you try to switch on a source in your main Bang & Olufsen system, and you get the pictures and/or the sound from a different source on your TV, it may be because a recording (audio or video) is progressing in your main system.
- When you watch a video source from your main system, for example a satellite programme, you will get pictures and *mono sound* on your MX 4002 TV.

To obtain pictures and *stereo sound* (if any is available), you must use the AU* LIST button: press, for example, SAT, LIST until AU* appears, then SAT. (To obtain the *stereo sound* alone, just press LIST until AU* appears, then SAT, you must do it from standby, though).

- To start playback on a Bang & Olufsen record player in your main system, press LIST until PHŪNŪ* is displayed, then GO. Pressing ▲ or ▼ while you are listening to a record makes the record player step through the music in 8 mm steps.
- To start playback on a secondary Bang & Olufsen audio- or video tape recorder in your main system, press LIST until either A.TAPE2* or V.TAPE2* are displayed, then GO.



- To be able to start a DVD or CDV player connected to your main video system, press DVD on Beo4, then GO. Now operate your DVD or CDV player as usual.

*Note: In order to display PHŪNŪ, A.TAPE2, V.TAPE2 and AU on Beo4, you must add the functions to the Beo4 list of functions, please refer to Beo4's own User's guide and the chapter, *Customising your Beo4*, for further information.

- TEXT** Press to switch to Teletext
- ▶▶** Press to step to the next favourite Teletext page
or
◀◀ Press to step to the previous page

- 3** Press to select a specific page,
0 for example page 302
2

Alternatively...

- ▲** Press to step to the next page
or
▼ Press to step to the previous page
- 0** Calls up the page you have just left

How to call up Teletext pages

If the station you are currently watching transmits Teletext, press **TEXT** on Beo4 to call up Teletext*.

The first page which appears is a preset *favourite Teletext page*, the cue *MEM 1* in the upper left-hand corner of the screen indicates this status.

A favourite page is a specific page which has been preset in your TV. Four favourite Teletext, *MEM 1, 2, 3 and 4*, are available in your MX 4002 TV for each station which transmits Teletext.

The Index page, page 100 (preset as MEM 1), provides a list of content for the Teletext pages, it can help you find the Teletext page you want.

See the following pages for information about the facilities Teletext offers...

*Note: If you get a blank page when you press **TEXT**, the TV station does not currently transmit Teletext. Press **EXIT** or e.g. **TV** to leave Teletext.

To preset the current Teletext page as a favourite Teletext page...

- LIST** Press until **STORE** is displayed
then
GO Press to preset the current page,
1 as for example, your favourite page
then
GO

- EXIT** Press to leave Teletext

Presetting your own favourite Teletext pages...

Teletext page 100 is preset as *MEM 1*, 200, 300, and 400 as *MEM 2* till 4.

You can change this setup and preset the pages you use most often as your favourite Teletext pages.

Note: The facilities offered by Teletext differ from country to country, and even from one Teletext broadcaster to the other. For details about special facilities we recommend that you consult the information distributed on-screen or on paper by your Teletext broadcaster.

Using the basic Teletext functions

Once you have found the Teletext page you want to read, there are various facilities at your disposal which make it easier for you to read the page.

To use each of these functions, listed below, follow the instructions shown to the left...

*Note: In order to display REVEAL on Beo4, you must add the function to the Beo4 list of functions, see Beo4's own User's guide and the chapter, *Customizing your Beo4*, for further instructions.

STOP/SUBPAGE

Before you use this function, you must call up the Teletext page of which you want a subpage. A Teletext page can have a large number of subpages which turn successively. The subpages are identified by a 4-digit subcode.

To retain subpages which would otherwise "turn" automatically, press STOP. The pages you have retained will not be released until you press STOP again.

LARGE

You can enlarge the text so that it is easier to read from a distance. When you have chosen to enlarge the Teletext, the upper half of the page appears first, then you must press GO to see the lower half of the page. You decide when you want to return to normal page size by pressing GO.

MIX

You can also superimpose the Teletext page on the TV picture so that you can see both simultaneously. You decide when you want to see just the Teletext page again by pressing GO.

REVEAL*

If a Teletext page contains concealed text, for example the answer to a riddle, you can use the reveal function to reveal the concealed text. When you want to conceal the text again, press GO.

Retaining subpages...

Call up the Teletext page with subpages...

Press to retain any subpage

then
STOP

Press to see subpages

then
▲
or
▼

Alternatively,

Key in the four digits for the subpage you wish to see, for example subpage 0005

0
0
0
5

Press STOP to release the page

STOP

Press until LARGE is displayed

LIST

Press to enlarge the text

then
GO

Press GO again to enlarge the remaining part of the text; and press GO again to return to normal Teletext size

Press until MIX is displayed

LIST

Press to superimpose the Teletext page on the TV picture

then
GO

Press GO again to see only the Teletext page

Press until REVEAL* is displayed

LIST

Press to reveal concealed text

then
GO

Press GO again to conceal the text

6
then
TEXT

Select the program number for which you want subtitles, e.g. 6, and switch to Teletext

Find the subtitles page...

3
3
3

Call up the subtitles page, for example 333

The subtitles appear on the screen

LIST

Press until **LARGE** is displayed

then

GO

Press to enlarge the subtitles

Teletext subtitles

Some Teletext broadcasters provide subtitles for their TV or SAT programmes. Such subtitles are transmitted on a specific Teletext page, for example 333. Use the Index page (100) to find the subtitles page.

If you want subtitles for a station, find the Teletext page with subtitles, the subtitles will then be inserted at the bottom of the screen on the TV picture of e.g. the current TV programme.

You can enlarge the subtitles on the screen to make them easier to read. Press **LIST** to display **LARGE** and then press **GO**.

To make the subtitles appear whenever you select a specific program number...

6
then

TEXT
then

If it is not called up already, call up the program e.g. 6

Press to call up Teletext

Call up the subtitles page, e.g. 333

3
3
3

LIST
then

GO

then

4
then

Press **LIST** until **STORE** is displayed

Select favourite Teletext page 4

GO

Press to preset the subtitles page on favourite Teletext page 4

Making the subtitles appear automatically

You can make the TV insert subtitles automatically whenever you select a specific station or program number.

The procedure involves calling up the program number you want subtitles for and Teletext. Now you just have to find the subtitles Teletext page and then store it on your favourite Teletext page 4*.

*Note: The Teletext page with the subtitles must be preset on the favourite Teletext page number 4 (*MEM 4*). If you no longer want the subtitles to appear automatically on the program number concerned, you simply store another Teletext page on *MEM 4*, see page 18 for further instruction.

Page update Teletext function

You can ask to be reminded as soon as a specific Teletext page is available or any changes occur on the page while you are still watching TV.

First, you must key in the number of the Teletext page you either want to see as soon as it is available or want to be kept up to date with while you are watching TV. Select the update function and return to watching TV undisturbed.

The cue *FOUND* appears on the screen, when the page you want to see, is found. Press GO twice to see the page straight away or press GO once to instruct your TV to let you know when the page is updated*.

The cue *UPDATE* appears on the screen when the page has been updated. Press GO to call the Teletext page up on the screen.

*Note: While you are watching the TV programme, waiting for the page to be updated, don't forget that the TV is in Teletext mode. This means that if you key in a number, the TV 'thinks' you are asking for a Teletext page.

The TV will immediately start searching for a Teletext page of that number, and the update function will be cancelled.

Key in the relevant Teletext page number, then...

Press LIST until UPDATE is displayed

LIST

then

Press to see the TV picture

GO

When the page has been found, the cue *FOUND* appears on the screen

Press GO twice if you want to see the page straight away

GO

GO

Or

Press GO once if you want to be reminded when the page has been updated

GO

If you have chosen to be reminded when the page has been updated, the cue *UPDATE* appears on the screen, then...

Press to see the page

GO

Press to leave Teletext mode

EXIT

TEXT

Switch to Teletext and find a Fastext page

A small bar made up of the colours, red, green, yellow and blue indicates that the page is a Fastext page...



or



or



or



Press to select one of the four coloured pages to access the Fastext system

An extra line appears, indicating the titles of the pages each written in a different colour...



or



or



or



Press the coloured button that or matches the page you want to see

TEXT

Press to leave Fastext

Alternatively, key in a page number with the number keys or press ►► or ◀◀ to leave Fastext...

You can now operate Teletext again in the usual way, or...

EXIT

Press to leave Teletext

"Fastext" or FLOF

The Fastext facility (also known as FLOF = Full Level One Feature) is a facility provided by some Teletext broadcasters. It enables the user to step directly to any one of four different pages linked to the page, currently on the screen.

This facility reduces access time to these instant access pages to almost zero. At the same time, it helps the user find a logical path through the multiplicity of available Teletext pages.

If you select a page with Fastext, you will see a colour bar in the upper right-hand corner of the screen. The colour bar only appears if the Teletext broadcaster is currently providing the Fastext facility.

The colour bar is made up of four different colours. The coloured buttons on Beo4 correspond to these colours, use the buttons on Beo4 to call up the page of your choice: Red, green, yellow, or blue.



A Teletext page with the indication that it is a Fastext page – a small colour bar appears in the upper right-hand corner of the screen.



The titles of the four linked pages appear on top of the page, each written in a different colour – to call up the page you want, press the button which matches the colour, the title is written in.

Adjusting the picture...

The *Picture* menu is for picture adjustments. You can raise or lower the level for the items in the menu.

Once your adjustments are completed, press GO to store them.

Note: When the BeoVision leaves the factory, all picture levels are set to neutral values which suit the majority of situations.

What's on the *Picture* menu...

Brilliance

Brilliance can be adjusted within a range of 00 to 62 – 30-34 is a neutral setting for the brilliance level.

Colour

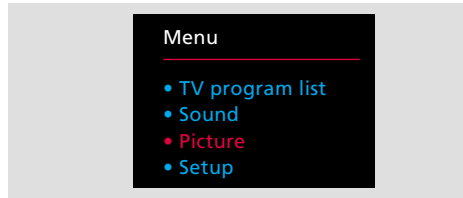
Colour can be adjusted within a range of 00 to 62 – 30-34 is a neutral setting for the colour level.

Contrast

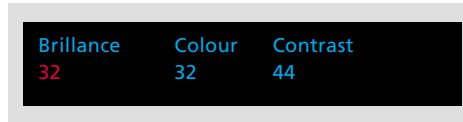
Contrast can be adjusted within a range of 00 to 62 – 40-48 is considered a neutral setting for contrast level.

Tint

Tint adjustment is only available if NTSC broadcast signals or NTSC sources are employed.
Tint adjusts colour nuance.



The main menu



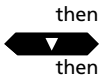
The *Picture* menu – allows you to adjust the following picture elements: *Brilliance*, *Colour* and *Contrast*. In some cases, *Tint* adjustment is also available.

Press to call up the main menu



The main menu appears...

Press until *Picture* is lit up



Press to call up the *Picture* menu



The *Picture* menu appears...

Press to adjust the levels of the items in the menu



Press to move from item to item in the menu



Once you have finished adjusting...

Press GO to store your adjustments



Alternatively,
Press STOP to return to the previous menu without storing what you have entered



or
Press EXIT to exit without storing your adjustments



Press EXIT to remove the menus from the screen



Adjusting the sound

MENU Press to call up the main menu

The main menu appears...

then



Press until *Sound* is lit up

then



Press to call up the *Sound* menu

The first Sound menu appears...



Press to reveal options for the items in the menu



or



Press to move from item to item in the menu

or



If external speakers are connected, move to *Speaker*, then...



Press to cut in internal speakers *only*

or



Press to cut in external speakers *only*

or



Press to cut in *all* speakers

Once the relevant information is filled in in the first menu, press **GO** to call up the second menu

The second Sound menu appears...

Fill in the relevant information, using **▲** and **▼** and **▶▶** and **◀◀**...

then



Press **GO** to store your adjustments

Alternatively,



Press **STOP** to return to the previous menu without storing what you have entered

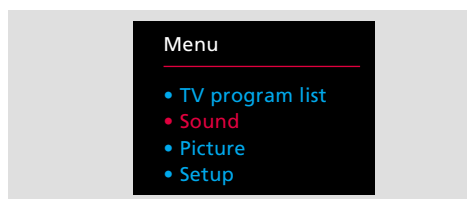
or



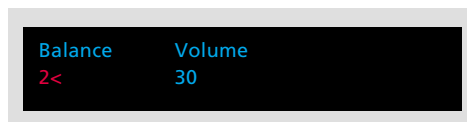
Press **EXIT** to exit without storing your adjustments



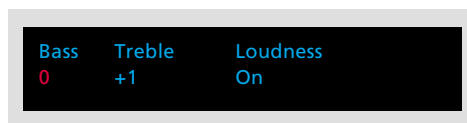
Press **EXIT** to remove all menus



The main menu



*The first Sound menu – allows you to adjust balance in your TV speakers and volume. If you have connected external Power Link speakers to your MX 4002, the items *Speaker* and *Centre* will appear on the menu which allow you to choose the number of speakers you want to cut in and adjust speaker balance between all your speakers.*



The second Sound menu – is for adjusting bass, treble and setting loudness to on or off.

The two *Sound* menus offer the possibility to adjust elements of sound to your liking – you can raise or lower the level for the items on the menus.

Once your adjustments are completed, you can choose to store them.

See the following page for information regarding the individual items on the two *Sound* menus...

Note: When the BeoVision MX 4002 leaves the factory, the sound levels are set to neutral values which suit the majority of situations. The item *Loudness* is set to *On*.

What's on the first *Sound* menu...

Balance

The loudspeaker balance for the built-in, internal speakers can be adjusted by max. 8 steps to the left or right.

Volume

Volume can be adjusted with a range of 00 to 80, pressing the \wedge or \vee buttons raise or lower the level by 2 steps.

Note: Volume can be adjusted at all times without calling up this Sound menu.

Speaker

Speaker only appears on the menu if you have connected a pair of Bang & Olufsen Power Link speakers to your MX 4002 TV and registered them in the *Sockets* menu, (see *Registering extra equipment*, pages 34-35 for further information). If this is the case, choose 1 for internal, built-in speakers only, choose 2 for external speakers only, and choose 3 for all speakers.

Note: As soon as you call up the first sound menu, you can key in 1, 2 or 3 directly to switch speakers without moving to *Speakers* in the menu.

Centre

The Centre Balance function is a special Bang & Olufsen feature for TVs fitted with external speakers. The *Centre balance function* is only available if you have connected external Power Link speakers to your MX 4002 TV.

The purpose of this adjustment is to ensure that the stereo sound can be given the enhanced effect which the external speakers are able to produce, and that mono sound, for example the voice of a person appearing on the TV screen, can be made to seem to originate from the screen itself.

The balance between the sound of external speakers and the built-in centre speakers can be adjusted within a range of 00 to 80.

Adjust the balance between *all* your speakers, adjust until the total sound image is balanced, that is, no one speaker seems to be dominating. If you store this adjustment, this will now be a part of your *Basic* setup.

What's on the second *Sound* menu...

Bass and Treble

The *Bass* and *Treble* levels can be adjusted by 4 steps above or below the neutral level 0.

Loudness

Loudness can be set to *On* or *Off*, it compensates for the human ear's diminished sensitivity to high and low bass and treble levels when listening to low volume levels.

Choosing speaker setup, adjusting balance and centre balance directly with Beo4...

Press LIST until SPEAKER* is displayed. If you key in 1, 2 or 3 you can choose the speaker setup you want.

If you press \lll or \ggg instead, you adjust the balance between the speakers, the display will read *Balance* with an indication of whether it has been adjusted to the left or right.

If you press \blacktriangle or \blacktriangledown , you adjust the centre balance between the external and built-in speakers, the display will read *Centre* and indicate the adjustment.

*Note: In order to display SPEAKER on Beo4, you must add the function to Beo4. Please refer to Beo4's own User's guide and the chapter, *Customising your Beo4*, for further instruction.

- LIST** Press until SOUND* is displayed then
- GO** Press repeatedly to switch between the different types of sound
- The current sound is indicated in the on-screen display, including the current program number...
- TV 2 Stereo

To display the type sound used for the programme you are currently watching...

- TV** Press to display the name of the current station
- TV** Press twice in quick succession to display the current type of sound

*Note: In order to display SOUND on Beo4, you must add the functions to the Beo4 list of functions, please refer to Beo4's own User's guide and the chapter *Customising your Beo4*.

Switching sound

Sound displays on-screen...

Mono	Mono sound
Stereo	Stereo sound
Mono-1	Language 1 – mono
Mono-2	Language 2 – mono
Mono-3	Language 3 – mono
Stereo-2	Language 2 – stereo

These types of sound may not all be available on any one TV station, you can choose to hear the various types of sound currently transmitted.

Mono Language 3 and Stereo Language 2 are facilities available only if you are tuned in to a station using the NICAM stereo system.

Several types of sound may be available for the source you are watching or listening to; stereo sound and mono sound, or two or three different languages.

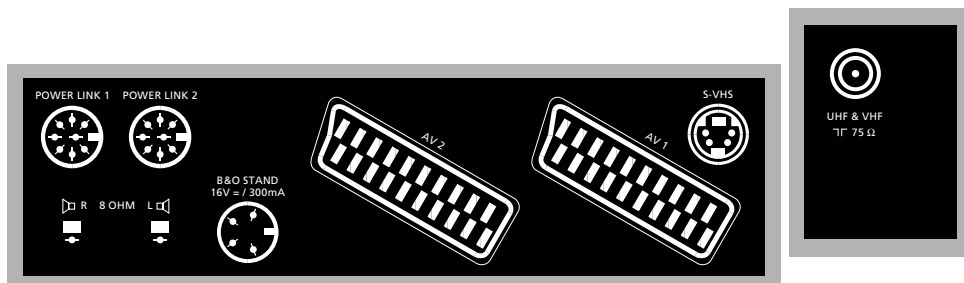
You can switch between these different types of sound. You can switch mono/stereo sound on a radio programme; switch language on a TV or satellite programme; or switch sound track on a video tape.

When you press GO, the type of sound you have chosen is indicated on the screen, along with the current program number.

Note: You can store different types of sound on different stations. So, when you switch on to a station, you will hear the sound or specific language, you selected for this program number. This should be done via the *Tuning* menu (see page 8-9).

Note: If you have selected stereo as your preferred (stored) type of sound, and it is not currently available on the TV programme you are watching, the TV will switch to mono sound automatically.

Sockets on the rear panel



Aerial

Connect the cable from your external aerial to the aerial socket marked UHF & VHF on the rear panel of the TV.

Note: The socket marked TRANSPOSER is for a special transposer required for the French SECAM L TV system.

Stand

The 4-pin DIN socket is for connection of a Bang & Olufsen motorized stand or -base.

Active speakers

The 8-pin DIN sockets marked POWER LINK 1 and POWER LINK 2 are for connection of active speakers.

Note: See pages 30-31 for details of how to program your speakers into the TV.

Passive speakers

You may connect external, passive speakers (8 ohm) to the speaker sockets marked R (right) and L (left).

AV connection

The socket marked AV1 is for connection of your primary video tape recorder, for example the Bang & Olufsen BeoCord VX 7000 or V 8000 video tape recorder.

The socket marked AV2 is for connection of all other AV equipment, for example a second video tape recorder, a video camera, a DVD or CDV player, a decoder or a socket expander.

Note: See pages 30-31 for details of how to program your AV connections into the TV.

Super VHS connection

The S-VHS socket is for connection of a video tape recorder or video camera using the S-VHS format.

Note: Remember also to connect your S-VHS connection to the AV1 or AV2 socket for reproduction of sound.

Note: See pages 30-31 for details of how to program your S-VHS connection into the TV.

Mains

Plug the mains lead attached to the TV into the mains socket.

Note: The attached mains lead and plug are specially designed for this TV. If you change the plug or in any way damage the mains lead, it will affect the TV picture adversely.

Once the TV is connected to the mains, the standby indicator on the front of the TV lights up in red. The TV is now in standby mode, ready to be operated with the Beo4 remote control.

Whenever the TV is switched on, the standby light turns green.

BeoLink connection

For connection to your central system please refer to the setting-up guide enclosed with your BeoVision MX 4002.

Please note...

Any equipment you connect should be registered in the TV Sockets menu in order for you to operate them. Please refer to page 30-31 for further information.

Sockets and buttons on the front

Headphones

You can connect headphones to the socket in the lower right-hand corner on the front. If you connect headphones, the TV speakers are cut out.

Note: If you have connected external speakers to your TV, they will not be cut out unless you press LIST until SPEAKER is displayed then 1, see page 25 for further instruction.

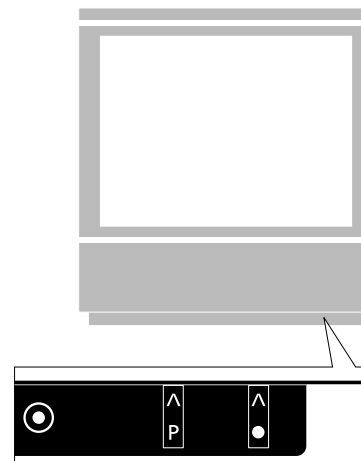
Note: In order to display SPEAKER on Beo4, you must add the function to Beo4. Please refer to Beo4's own User's guide for further instruction.

Buttons on the front

When the TV is switched on, press the mains switch • on the front of the TV to switch the TV off completely, a brief clicking noise is heard and the button is released. The indicator light in the top right hand corner of the TV is now switched off.

To switch to standby, so that the TV is ready to be used again, press the mains switch • again. When the TV is switched to standby, the indicator light turns red. When the TV is switched on the indicator light is green.

The button marked P enables you to switch on the TV, if the TV is in standby mode, and to step through the preset TV programs.



TV setup for connected equipment ...

MENU Press to call up the main menu

The main menu appears...

then

▼ Press until *Setup* is lit up

then

GO Press to call up the *Setup* menu

The Setup menu appears...

▼ Press until *Sockets* is lit up

then

GO Press to call up the *Sockets* menu

The Sockets menu appears...

▲ Press to reveal options for the items in the menu

or

▼

▶▶ Press to move from item to item

or

◀◀

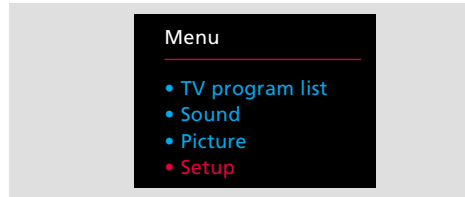
Once all the relevant information has been entered...

GO Press GO to store it and return to the main menu

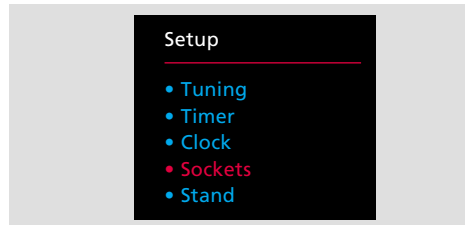
or

STOP Press STOP to return to the Setup menu without storing the information you have entered

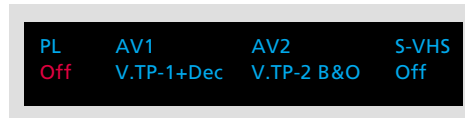
EXIT Press to remove the menus from the screen



The main menu



The Setup menu



The TV Sockets menu – allows you to register equipment such as external speakers, a video tape recorder or any non-Bang & Olufsen equipment.

Before you start...

You only have to program the TV setup if:

- You have connected external Power Link speakers to your MX 4002 TV
- You have connected a Bang & Olufsen video tape recorder of a type other than the BeoCord VX 7000 or V 8000
- You have connected any non-Bang & Olufsen equipment to your TV

The equipment you have connected to your MX 4002 TV must be registered in the TV *Sockets* menu*. When you have filled in all the information required, the TV setup is completed.

See the next page for information of the individual items on the *Sockets* menu.

*Note: Please refer to page 28 for information of what can be connected to your MX 4002 TV and where to connect it.

Please note...

If no connections are made to a sockets, the text in the *Sockets* menu must read "Off".

What's on the Sockets menu...**PL (Power Link)**

Refers to the two 8-pin POWER LINK sockets for connection of a pair of external Bang & Olufsen Power Link speakers.

Options *On* or *Off* are available; select *On* if you connect external Power Link speakers to your TV.

AV1

Refers to the 21-pin AV1 socket for connection of your primary video tape recorder.

Options *V.Tape-1 B&O*, *V.Tape-1*, *V.TP-1+Dec* or *Off* are available.

V.Tape-1 B&O... will be selected automatically if your video tape recorder is a Bang & Olufsen BeoCord VX 7000 or V 8000 video tape recorder. If this is not the case, it does not happen automatically, select the item *V.Tape-1 B&O* manually.

V.Tape-1... must be selected if you connect a non-Bang & Olufsen video tape recorder to the AV1 socket.

Note: To open your BeoVision MX 4002 TV to the signal from a non-Bang & Olufsen video tape recorder, press the V TAPE button on your Beo4 remote control, before you start operating your video tape recorder in the usual way.

V.TP-1+DEC... must be selected if you connect a video tape recorder to which a decoder is connected.

AV2

Refers to the 21-pin AV2 socket for connection of auxiliary video equipment, a second video tape recorder, a DVD or CDV player, a decoder or an expander.

Options *V.Aux*, *V.Tape-2 B&O*, *V.Tape-2*, *DVD*, *Decoder*, *Expander* or *Off* are available.

V.Aux... must be selected if you have connected any auxiliary video equipment (of a type not mentioned below) to the AV2 socket, for example a video camera.

Note: To open your BeoVision TV to the signal from your auxiliary video equipment, press LIST until \cup .AUX* is displayed on the Beo4 display, then GO on your Beo4 remote control, before you start operating the auxiliary equipment in the usual way.

V.Tape-2 B&O... will be selected automatically if your second video tape recorder is a Bang & Olufsen video tape recorder. If this does not happen automatically, select the item *V.Tape-2 B&O* manually.

Note: To operate any Bang & Olufsen video tape recorder connected to the AV2 socket, press LIST until \cup .TAPE2* is displayed, then GO on your Beo4 remote control.

V.Tape-2... must be selected if you connect a non-Bang & Olufsen video tape recorder to the AV2 socket.

Note: To open your BeoVision TV to the signal from a non-Bang & Olufsen video tape recorder, press LIST until \cup .TAPE2* is displayed, then GO on your remote control, before you can start operating your video tape recorder in the usual way.

DVD... must be selected if you have connected a DVD or CDV player to the AV2 socket.

Note: Before you can start operating your DVD or CDV player in the normal way, press DVD on Beo4.

Decoder... must be selected if you have connected a decoder to the AV2 socket.

Note: Please refer to the chapter *Tuning*, page 8-9 in this guide for details about how to cut in a decoder.

Expander... must be selected if you have connected an expander to the AV2 socket.

S-VHS

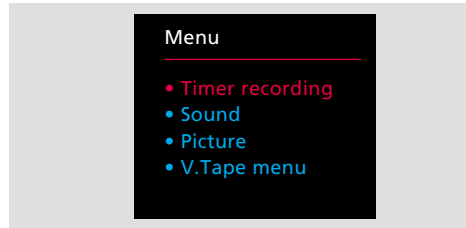
Refers to the small S-VHS socket, which is for connection of video tape recorder or video camera using the S-VHS format. Any video equipment connected to the S-VHS socket must also be connected to one of the 21-pin AV sockets for reproduction of sound.

S-VHS... can be set for any of the items selected for the AV1 and AV2 sockets (except "Decoder"). If the item you have selected for the AV1 or for the AV2 socket uses the S-VHS format, then you must also select the relevant item (socket AV1 or AV2) for the S-VHS socket.

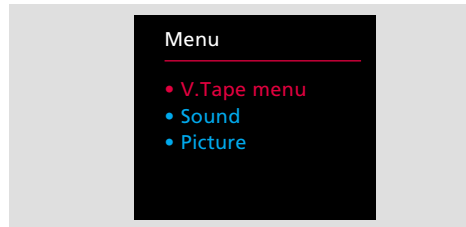
Note: In order to display \cup .AUX and \cup .TAPE2 on your Beo4, you must add the functions to the Beo4 list of functions, please refer to Beo4's own User's guide and the chapter, *Customising your Beo4*.

Your MX 4002 TV adapts its main menu to the source you have selected. The number of menu variants depend on the number of sources your system includes.

To gain access to such a menu select your source and then press MENU on Beo4 e.g. press V TAPE then MENU to call up the V.Tape main menu.

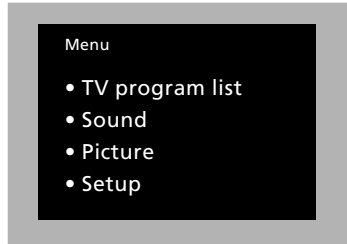
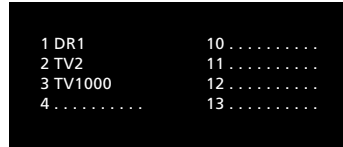
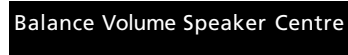
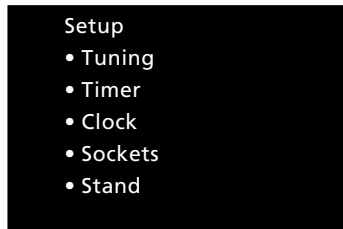
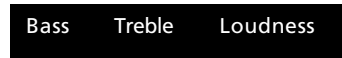
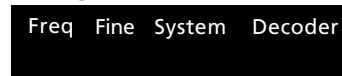
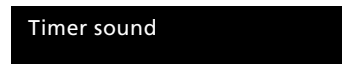
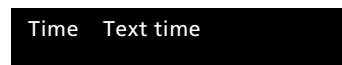
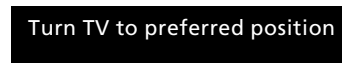


V.Tape main menu – This menu appears if you have connected e.g. BeoCord VX 7000 or V 8000 to your MX 4002 TV. The item *Timer recording* calls up the *Timer index* and the *Timer recording fill-in menu*. *Sound and Picture* enables you to adjust sound and picture directly of your video recording or playback. The *V.Tape menu* is the video tape recorder's own main menu, the *Timer recording menu* and the *Timer index* are also available to call up. The *V.TAPE menu* also contains menus for dedicated video tape recorder presets*.



V.Tape main menu (2) – This menu appears if you have connected a video tape recorder other than the BeoCord VX 7000 or V 8000. It contains the video tape recorder's own *Setup menu* as well as the *Sound and Picture* menus for direct adjustment of sound and picture levels*.

*Note: For further information of V. Tape menus, please refer to the appropriate Video Tape Recorder's own User's guide.

Main menu**TV program list****Sound****Picture****Setup****Sound (Sound)****Tuning****Tuning (Tuning)****Timer****Clock****Sockets****Stand**

This diagram represents all the menus on your MX 4002 TV.

To access the different levels from the main menu press GO once you have selected the item you want.

When you access the first Sound menu or the first Tuning menu, you press GO to access their second menus.

Date purchased

Contact person

Dealer

Telephone

Address

BeoVision MX 4002 serial number

Beo4 serial number

Dear Customer,

Your needs as the user of your products are always given careful consideration during the design and development process, and we strive to make our products easy and comfortable to operate.

We therefore hope that you will take time to drop us a line, telling us about your experiences with your Bang & Olufsen system. Anything which you consider important - positive or negative - may help us in our constant efforts to refine our products.

Thank you!

Please write to:

Customer information

Bang & Olufsen als

DK-7600 Struer

Denmark