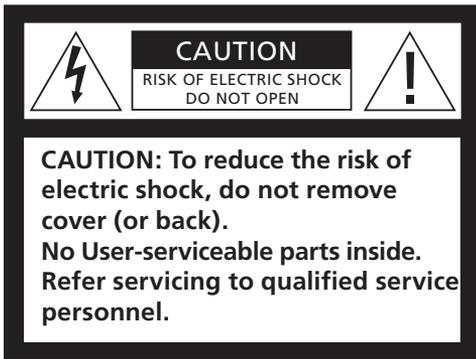


BeoVision 7

Reference book



WARNING: To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture. Do not expose this equipment to dripping or splashing and ensure that no objects filled with liquids, such as vases, are placed on the equipment.

To completely disconnect this equipment from the AC Mains, disconnect the mains plug from the wall socket. The disconnect device shall remain readily operable.



The lightning flash with arrowhead symbol within an equilateral triangle, is intended to alert the user to the presence of un-insulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

For the US-market only!

NOTE: This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the retailer or an experienced radio/TV technician for help.

For the Canadian market only!

This class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Tables of contents in the Reference book

The content of this Reference book is divided into sections. Each particular section starts with its own detailed table of contents provided with page references. Texts in black refer to the current section, whereas the remaining sections are described in general terms and written in grey.

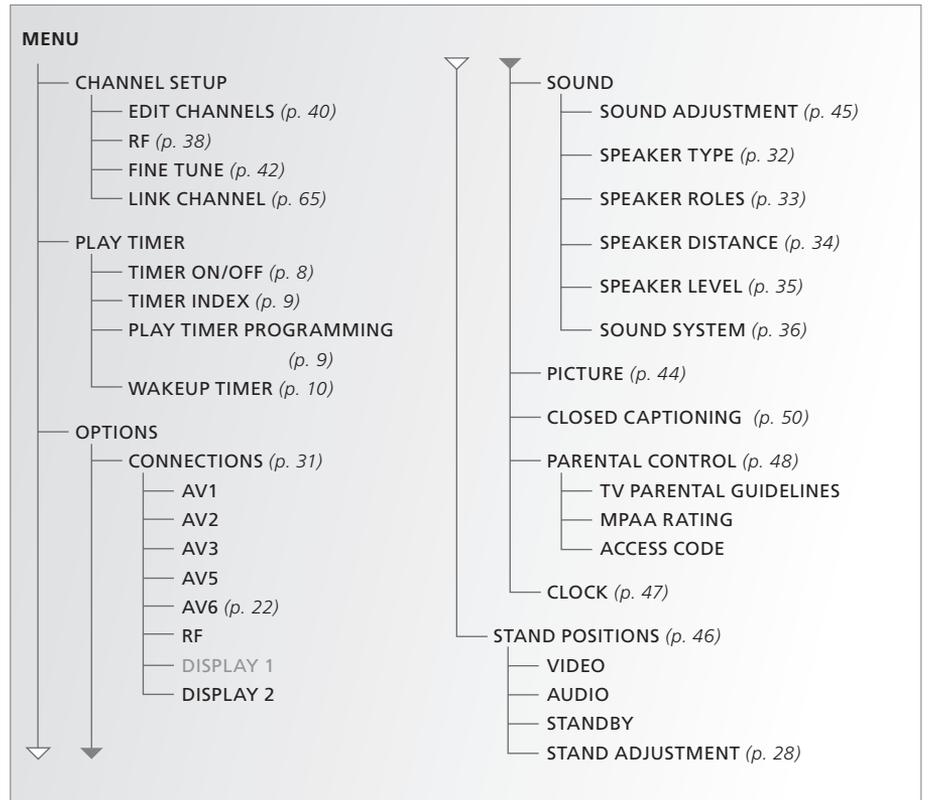
The main sections are:

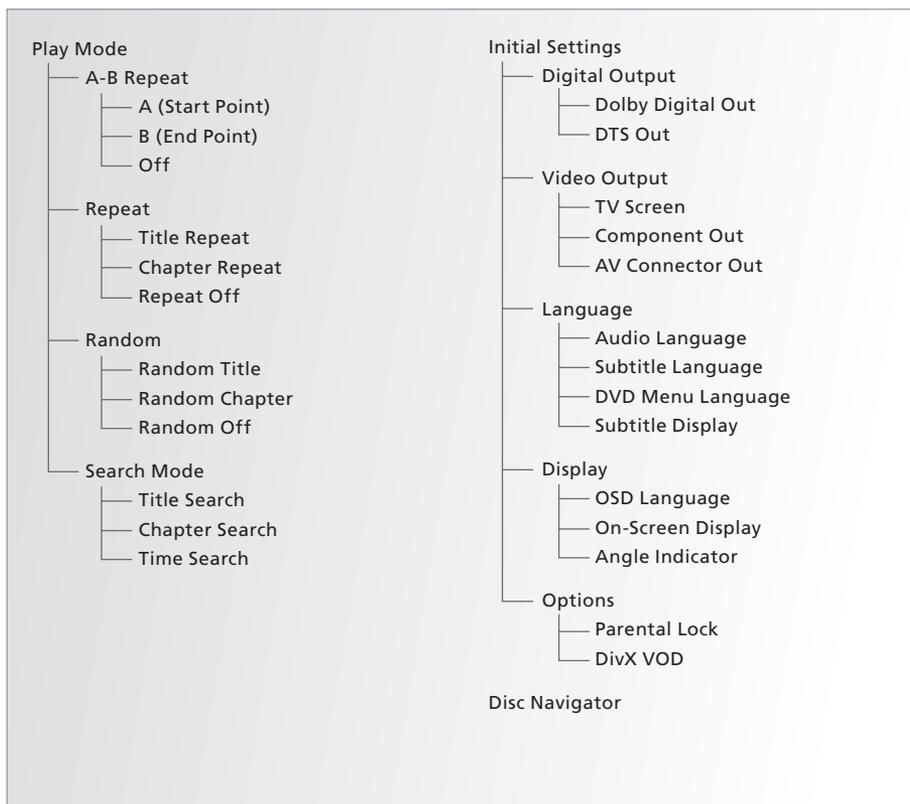
- Advanced operation, 7
- Placement, sockets and connections, 15
- Tuning and preference settings, 25
- BeoLink system, 61
- Index, 72

Menu overview

The illustration on this page shows the content of the menu system, and also indicates where in the Reference book you can find further information about the menus.

The menus available when you select DVD or the digital tuner are shown on the next pages.





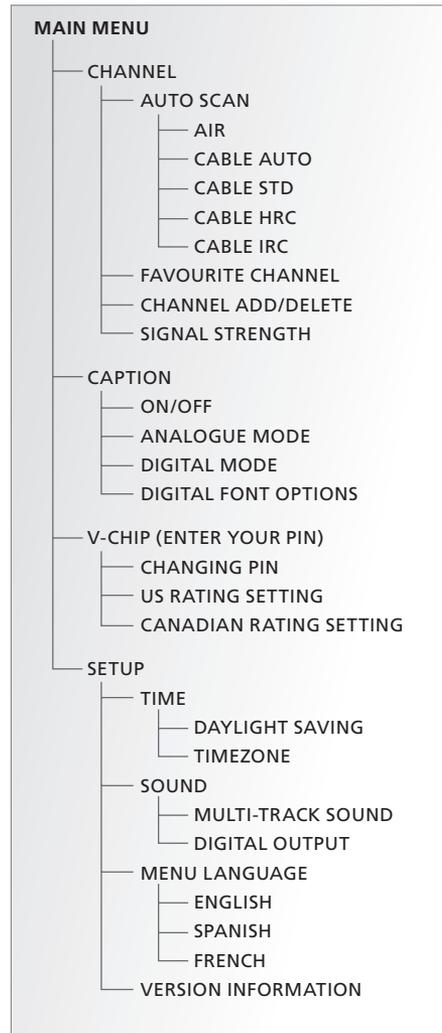
The extended on-screen menu system for the DVD player.

Press DVD, then the yellow button, then 3 on Beo4 to access the menu system.

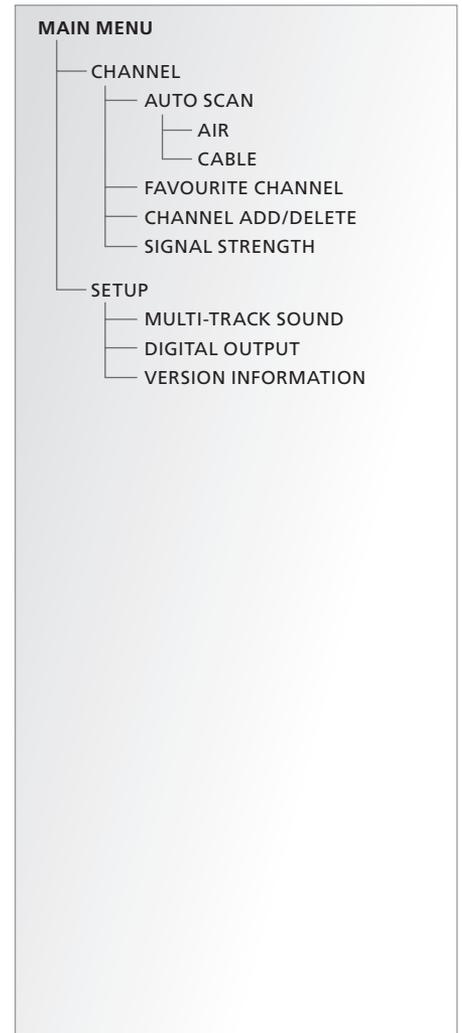
For information about the built-in DVD player, refer to 'Use the DVD player' on page 12 in the Guide.

On this page you find the main menu of the built-in ATSC tuner, which contains submenus that you can use to make your own settings, enter information on your current terrestrial or cable setup and make channel searches.

The V-CHIP menu within the ATSC tuner menu allows you to restrict access to particular channels or rated contents*. Restriction of access in the ATSC tuner and in the TV tuner is set independently of each other.



The American ATSC main menu.



The Korean ATSC main menu.

The structure of the menu system may change with new software. For information about the ATSC digital tuner, refer to page 18 in the Guide and page 54 in the Reference book.

*NOTE! The Caption and V-CHIP menus are not available in Korea.

This chapter tells you how to operate your television beyond daily use.

It also tells you how to operate a connected set-top box and other connected video equipment.

- **Set the television to switch itself on and off, 8**
- **Wake-up Timer, 10**
- **Use connected video equipment with Beo4, 12**

Placement, sockets and connections, 15

Find out how to handle and place your television, where the sockets are placed, and how to connect and register extra equipment.

Tuning and preference settings, 25

Find out how to set up your television for the first time and scan in channels. This chapter also contains information about settings for time, date, picture, sound, parental control and Closed Captioning.

BeoLink system, 61

Find out how to connect an audio system to your television and operate an integrated audio/video system. Find out how to make link connections, operate a link system, set up your television in a link room and how to customise Beo4 to your television.

Index, 72

Find the subject you want to know more about.

Set the television to switch itself on and off

You can make your television switch itself on and off automatically via the timed play and timed standby functions, for example, if there is a programme you do not want to miss.

Enter as many as six Timer settings, and bring up an on-screen list of the Timer settings you have entered.

From this list, you can edit or delete your Timer settings.

If your television is integrated with a Bang & Olufsen audio or video system with a Master Link cable, these systems can perform the timed play or timed standby functions as well.

For your timed settings to be executed correctly, ensure that the built-in clock is set to the correct time. For further information, refer to the chapter 'Set the time and date' on page 47 in the Reference book.

Before you start ...

If you connect a Bang & Olufsen audio or video product to your television with a Master Link cable, you can exclude or include it in timed functions via the *Play Timer* menu. For example, set the television's Play Timer to ON and an audio system's Play Timer to OFF if you wish timed functions to apply only to the television.

To switch on the Play Timer ...

- > Press **MENU** to bring up the TV SETUP menu and press **▼** to highlight PLAY TIMER.
- > Press **GO** to bring up the PLAY TIMER menu, and press **▼** or **▲** to highlight TIMER ON/OFF.
- > Press **GO** to bring up the TIMER ON/OFF menu.
- > Press **◀** or **▶** to reveal ON.
- > Press **GO** to store the setting.

For further information about how to switch the Play Timer on or off for a connected Bang & Olufsen audio or video product, refer to the Guide enclosed with the product.

Timed play and timed standby

You can preset your television to start and stop automatically at the same time and day every week.

To enter settings for timed play or timed standby ...

- > Press **MENU** to bring up the TV SETUP menu and press **▼** to highlight PLAY TIMER.
- > Press **GO** to bring up the PLAY TIMER menu and press **▼** to highlight PLAY TIMER PROGRAMMING.
- > Press **GO** to bring up the PLAY TIMER PROGRAMMING menu.
- > Press **▲** or **▼** to move through the menu items.
- > Use the number buttons to enter information or press **◀** or **▶** to view your choices for each item. When DAYS is highlighted, press **▶** once to be able to move through the days, and press **▲** or **▼** to remove a day you do not want. Press **▶** to move to the next day, and press **◀** to move back to a previous day. When the weekday(s) you want are displayed, press **GO** to accept the day(s).
- > When you have filled in the required information, press **GO** to store your Timer settings.
- > Press **EXIT** to exit all menus.

TIMER PROGRAMMING	
SOURCE	TV
CHANNEL	18 BBC
SUB CHANNEL	
START TIME	15:40
STOP TIME	16:40
DAYS	M..TF..S
set days store	

PLAY TIMER INDEX	
15:40-16:40	TV 18
BBC	M..TF..
6:00 - 7:00	TV 3
ZDF	MTWTF..
20:00-22:00	TV 15
CNN	MT...S.
delete edit	

You can only use a source, such as A.MEM, if it is present in your setup. If the television is set up in a link room, Timer programming must be carried out on your main room system.

Abbreviations for days of the week:

M ...	Monday
T ...	Tuesday
W ...	Wednesday
T ...	Thursday
F ...	Friday
S ...	Saturday
S ...	Sunday

What's on the TIMER PROGRAMMING menu ...

SOURCE

Depending upon the option you choose, SOURCE indicates either that a specific source is to be switched on or off. Options are:

TV ... To switch on the TV.

DTV ... To switch on the ATSC digital tuner.

V.AUX ... To switch on equipment registered as V.AUX, such as a set-top box.

V.AUX2 ... To switch on equipment registered as V.AUX2.

V.MEM ... To switch on a connected video recorder.

DVD ... To switch on the built-in DVD player.

DVD2 ... To switch on a connected DVD player.

CD ... To switch on a connected CD player.

N. MUSIC, N. RADIO ... For access to music files stored on a PC or to Internet radio sites. For further information about these sources, consult your Bang & Olufsen retailer.

A.MEM ... To switch on a connected audio recorder.

RADIO ... To switch on a connected radio.

DTV RADIO ... To switch on digital radio. Only available if your system is equipped with the built-in ATSC module.

STANDBY ... To switch the television off. If you have other compatible systems connected to your television, they are switched off as well.

CHANNEL (Channel number) ... Once your source is chosen, choose the channel number you want.

SUB CHANNEL ... When you have chosen a channel number, choose the sub channel number. This is only possible when watching digital TV. The sub channel is indicated with a Channel Delimiter.

START TIME and STOP TIME ... Key in the times when you want the television to start and/or stop playing. If you have set the Timer source to STANDBY, it is only possible to enter a stop time.

DAYS ... Select the specific weekday(s) on which you want your Timer executed. All the weekdays will be displayed – starting with M for Monday.

View, edit or delete a Timer

Bring up an on-screen list of the settings you have entered. From this list, you can edit or delete your Timer settings.

To view, edit or delete your Timer settings ...

- > Select TIMER INDEX from the TIMER SETUP menu to bring up your list of Timer settings. The first Timer setting in the list is already highlighted.
- > Press ▲ or ▼ to move the cursor to a Timer setting you wish to edit.
- > To edit a setting, press GO and follow the procedure described to the left.
- > To be able to delete a selected setting, press the **yellow** button.
- > If you change your mind, press ◀ to move the setting back into the list. You can also press EXIT to exit all menus.
- > Press the **yellow** button a second time to delete the setting.

Wake-up Timer

You can make the television wake you up in the morning.

The Wake-up Timer is a once-only Timer, it lasts for one hour. Like an alarm clock it is disabled once it has been executed. It applies only to the television it has been programmed on.

Once you have made one Wake-up Timer, the television automatically suggests the time you entered for the latest Wake-up Timer when you enter a new one.

Wake-up Timers can of course also be disabled again.

When you have programmed a Wake-up Timer, the television cannot be part of an ordinary Play Timer or Standby Timer until the Wake-up Timer has been carried out or disabled.

Enter a Wake-up Timer

You must choose the source and channel number of your Wake-up Timer as well as the start time.

To enter settings for a Wake-up Timer ...

- > Press **MENU** to bring up the TV SETUP menu and press **▼** to highlight PLAY TIMER.
- > Press **GO** to bring up the PLAY TIMER menu and press **▼** to highlight WAKE UP TIMER.
- > Press **GO** to bring up the WAKE UP TIMER menu.
- > Press **▲** or **▼** to move through the menu items.
- > Use the number buttons to enter information or press **◀** or **▶** to view your choices for each item.
- > When you have filled in the required information, press **GO** to store your Wake-up Timer.
- > Press **EXIT** to exit all menus.



What's on the WAKE UP TIMER menu ...

SOURCE

Depending upon the option you choose, SOURCE indicates that a specific source is to be switched on. Options are:

TV ... To switch on the TV.

DTV ... Switch on the ATSC digital tuner.

V.AUX ... To switch on equipment registered as V.AUX, such as a set-top box.

V.AUX2 ... To switch on equipment registered as V.AUX2.

V.MEM ... To switch on a connected video recorder.

DVD ... To switch on the built-in DVD player.

DVD2 ... To switch on a connected DVD player.

CD ... To switch on a connected CD player.

N. MUSIC, N. RADIO ... For access to music files stored on a PC or to Internet radio sites. For further information about these sources, consult your Bang & Olufsen retailer.

A.MEM ... To switch on a connected audio recorder.

RADIO ... To switch on a connected radio.

DTV RADIO ... To switch on digital radio. Only available if your system is equipped with the built-in ATSC module.

CHANNEL (Channel number) ... Once your source is chosen, choose the channel number you want.

SUB CHANNEL ... When you have chosen a channel number, choose the sub channel number. This is only possible when watching digital TV. The sub channel is indicated with a Channel Delimiter.

START TIME ... Key in the times when you want the television to start.

ON/OFF ... Change the ON/OFF setting to OFF if you wish to delete the Wake-up Timer.

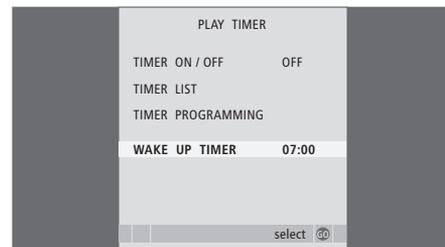
You can only use a source, such as A.MEM, if it is present in your setup.

Check or delete a Wake-up Timer

You can call up the settings for the Wake-up Timer to check the time or to disable the Wake-up Timer by setting it to OFF.

To change settings for a Wake-up Timer or delete it ...

- > Press **MENU** to bring up the TV SETUP menu and press **▼** to highlight PLAY TIMER.
- > Press **GO** to bring up the PLAY TIMER menu and press **▼** to highlight WAKE UP TIMER.
- > Press **GO** to bring up the WAKE UP TIMER menu.
- > Press **▲** or **▼** to move through the menu items.
- > Use **◀** or **▶** to change settings or enter a new time with the number buttons. Change the ON/OFF setting to OFF if you wish to delete the Wake-up Timer.
- > When you have made your changes, press **GO** to store them.
- > Press **EXIT** to exit all menus.



Use connected video equipment with Beo4

The built-in Peripheral Unit Controller acts as an interpreter between connected video equipment, such as a set-top box, video recorder or DVD player, and the Beo4 remote control.

You can use the Beo4 remote control to gain access to the channels and functions offered by your equipment.

Some functions are available via Beo4 when you switch on the equipment. Additional functions are available through a Peripheral Unit Controller menu that you bring up on the screen.

For instruction in the various functions offered by your equipment, please refer to the product's own user's guide.

Not all connected video equipment are supported by Bang & Olufsen. For further information about supported equipment, contact your Bang & Olufsen retailer.

Peripheral Unit Controller menu

Buttons on the remote controls included with your equipment may not match those on Beo4. To see which Beo4 buttons activate specific services or functions, bring up the Peripheral Unit Controller menu on the screen.

Press a source button to switch on connected equipment **V MEM**

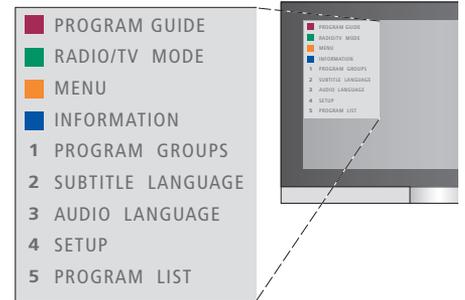
Press to bring up the Peripheral Unit Controller menu **MENU**

Press the number button that activates the function you want, or ... **1 – 9**

... press one of the coloured buttons to activate a function



When you have selected connected equipment as a source, press MENU twice to bring up the television main menu.



Example of a Peripheral Unit Controller menu – The Beo4 buttons are shown to the left on the menu, and the functions they control are shown to the right. The menu may also list buttons on the remote control included with your connected equipment.

Direct Beo4 operation

If you know which Beo4 button activates the function you want, you can activate the function without bringing up the Peripheral Unit Controller menu first.

While your equipment is on ...

Press one of the coloured buttons to activate a function



Press GO and then ▲ or ▼ to step up or down through, for example, set-top box channels

GO
▲
▼

Press and hold GO to bring up the Program guide or the 'Now/Next' banner on the screen if you are using a set-top box that supports these functions

GO

Use equipment menus

Once you have activated connected equipment, you can operate its own menus with Beo4.

While equipment menus are shown ...

Moves the cursor up or down

▲
▼

Moves the cursor left or right

◀ ▶

Selects and activates a function

GO
GO

Press GO and then ◀ or ▶ to step between menu pages or step in channel lists

GO
◀ ▶

Exits menus, or returns to a previous menu*

STOP

Use the number keys to enter information in menus or services when relevant

1 – 9

Exits menus, enters or exits different modes, such as radio

EXIT

Use the coloured buttons as indicated in the menus of your connected equipment



**Depending on the source you have selected, you may have to press EXIT twice instead of STOP to return to a previous menu.*

Use equipment from a link room

When you have connected equipment to the television in the main room, you can operate it via the link room television. However, the Peripheral Unit Controller menu cannot be displayed on the television screen in the link room.

Press to switch on equipment in the main room

V MEM

Press GO and then the number button that activates the function you want

GO
1 – 9

Press one of the coloured buttons to activate a function



We expect your Bang & Olufsen retailer to deliver, install and set up your products.

However, in this chapter, you can find out how to place and connect your television. It also gives you an overview of the connection panels.

We recommend that you follow the procedure described below when you set up your television:

- Unpack and place your television as described on the following pages
- Consider the appropriate surroundings for your television.
- Connect the cables, additional equipment, and speakers as described on the following pages.
- Connect the television to the mains.

This procedure is described in detail on the following pages.

Advanced operation, 7

All you need to know about using your television beyond daily use, such as how to operate timed play and timed standby functions, a connected set-top box, and a connected recorder

Placement, sockets and connections, 15

- Set up the television, 16
- Connection panels, 20
- Sockets for temporary connection, 22

Tuning and preference settings, 25

Find out how to set up your television for the first time and scan in channels. This chapter also contains information about settings for time, date, picture, sound, parental control and Closed Captioning.

BeoLink system, 61

Find out how to connect an audio system to your television and operate an integrated audio/video system. Find out how to make link connections, operate a link system, set up your television in a link room and how to customise Beo4 to your television.

Index, 72

Find the subject you want to know more about.

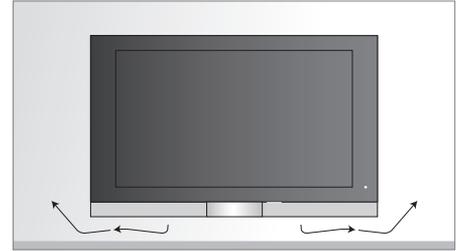
Set up the television

For information about the connection panels, refer to pages 20–22.

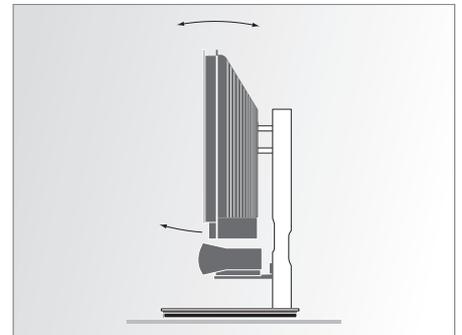
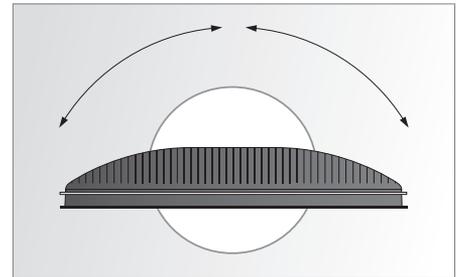
Handling your television

Never lift the television holding only the front glass. The television is NOT designed to stand on its own, it must be supported until mounted on the chosen stand or bracket.

- Avoid placing your television in direct sunlight or direct artificial light, such as a spotlight, as this may reduce the sensitivity of the remote control receiver. Also if the screen is overheated, black spots may appear in the picture. These spots disappear again, once the television cools down to normal temperature.
- Make sure that the television is set up, placed and connected in accordance with this Guide. To prevent injury, use Bang & Olufsen stands or wall brackets only.
- The television is developed for indoor use in dry, domestic environments only. Use within a temperature range of 50–105°F (10–40°C).
- Do not place any items on top of the television.
- Always place your television on a firm and stable surface.
- Do not attempt to open the television. Leave such operations to qualified service personnel.



Allow enough space below the screen for adequate ventilation. Make sure not to cover the fans. If the television is overheated a warning will appear on the screen; switch the television to standby, not off, in order for the television to cool down to normal temperature.



If you have a motorised stand or a wall bracket, leave enough space around the television to allow it to turn and tilt freely.

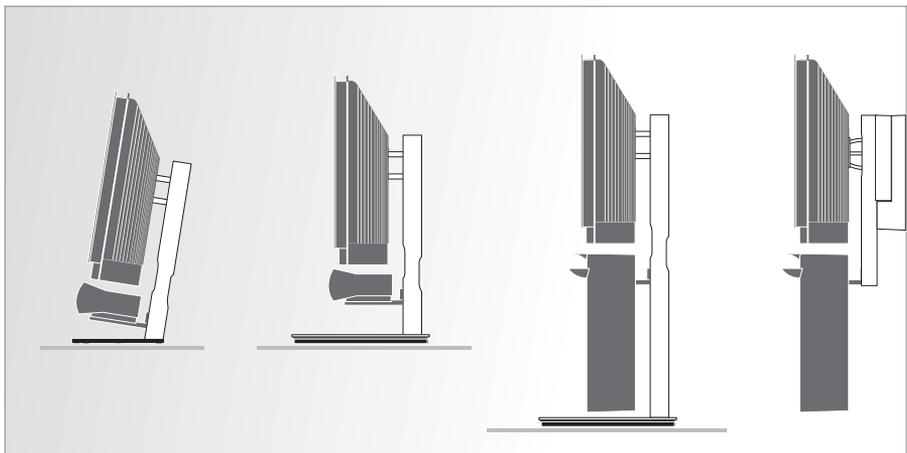
Placement options

The television can be placed in several ways, some are illustrated to the right. Please contact your Bang & Olufsen retailer for further information.

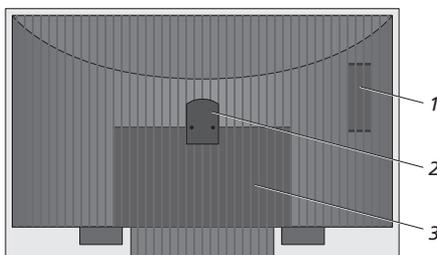
When you mount the television on one of the floor stands or wall brackets, you can tilt the television up and down, as well as turn it left or right on some of the stands. Note, however, that only some stands can be turned and tilted with the Beo4 remote control, other stands can only be tilted manually.

While mounting the television on the stand or bracket, you can use the packaging to support the products. This eases the mounting.

Once the loudspeaker and television are both mounted on a stand or bracket, do not carry them by holding the loudspeaker.



Placement of connection panels



- 1 Cover for sockets for temporary connection, such as camera and headphones sockets. Push in to open, push again to close.
- 2 Mounting bracket for stand or wall bracket.
- 3 Covers for the connection panel. Here you also find the mains supply connection. Pull out at the bottom to remove.

Connections

The diagrams on this page outline how to set up the television with video sources and loudspeakers.

The diagrams on the opposite page outline how to expand your setup, for example in a home cinema system with a projector and a home automation system.

Video signals

Connect your video signal sources, such as cable, antenna, or satellite to the sockets mentioned on the diagram.

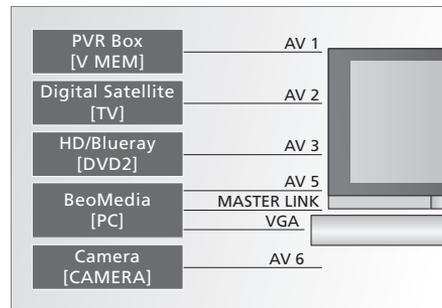
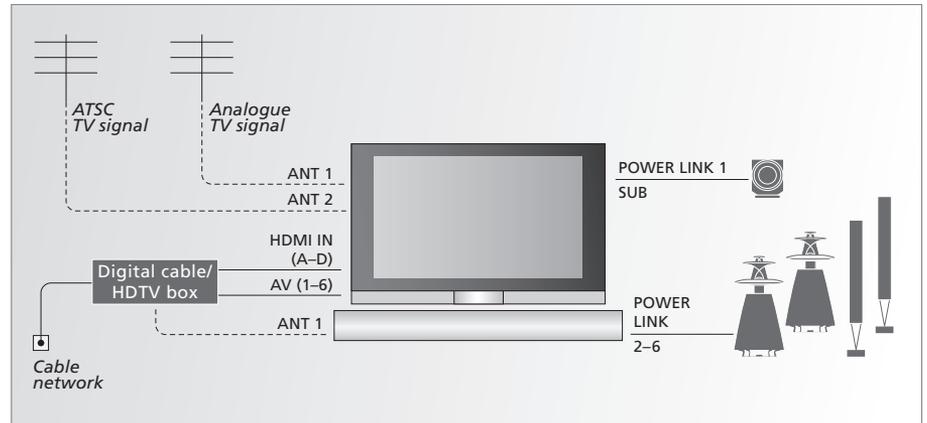
Loudspeakers

Use Bang & Olufsen Power Link speakers. Use the cables enclosed with the speakers. Longer cables are available from your Bang & Olufsen retailer.

If you loop the signals from speaker to speaker, remember to set the L – R switch on each looped speaker in a pair to different settings.

Additional video equipment

The sockets on the main connection panel allow you to have many different types of video equipment connected at the same time. We expect your Bang & Olufsen retailer to deliver, install and set up your products.



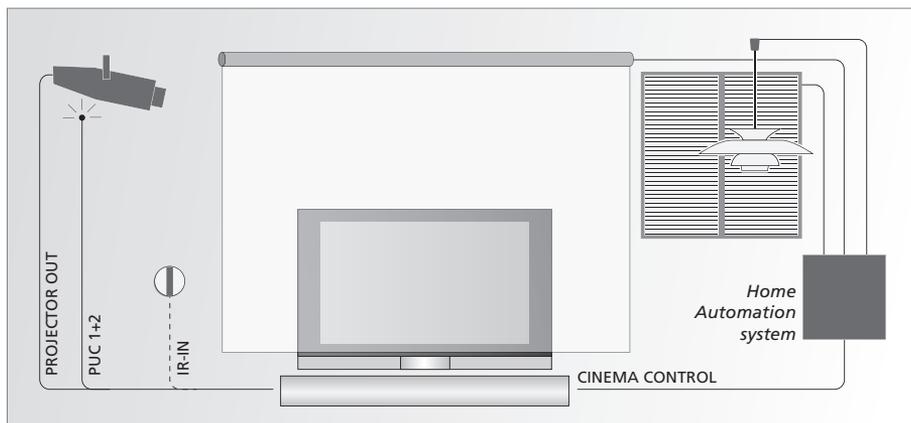
This diagram shows types of additional video equipment that can be connected to the television at one time, as well as the source name you can choose for the equipment in the CONNECTIONS menu, which is described on page 30.

IR-transmitters

In order to operate non-Bang & Olufsen products with Beo4, attach a low-power IR-transmitter to each of the products. Plug each IR-transmitter into the corresponding socket marked PUC on the main connection panel.

Equipment with HDMI™ input

Equipment with HDMI input can be connected to any of the four HDMI sockets, regardless of the particular AV socket group to which you have connected the equipment. For further information about how to set up connected equipment for use, refer to the chapter 'Register additional video equipment' on page 30.



Home cinema setup with projector and a home automation system

The television also supports the use of a projector. You can also connect a home automation system to the system, and thereby control room lights and curtains.

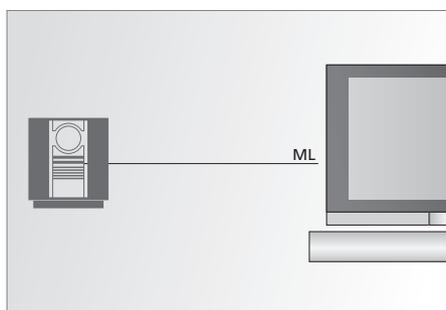
If the built-in receiver for the remote control signals (IR-receiver) is hidden behind the lowered projection screen, you must set up an external IR receiver, as well. The IR-receiver is available as an optional accessory from your Bang & Olufsen retailer.

Mains supply connection

Connect the television to the wall outlet. Use the ~ socket on the main connection panel. A tiny, red light appears in the IR-receiver. The television is in standby mode and ready to be used.

The television can only be switched off completely by disconnecting it from the wall socket.

The supplied mains cord and plug are specially designed for the television. If you change the plug or in any way damage the mains cord, it will affect the TV picture quality!



Audio system

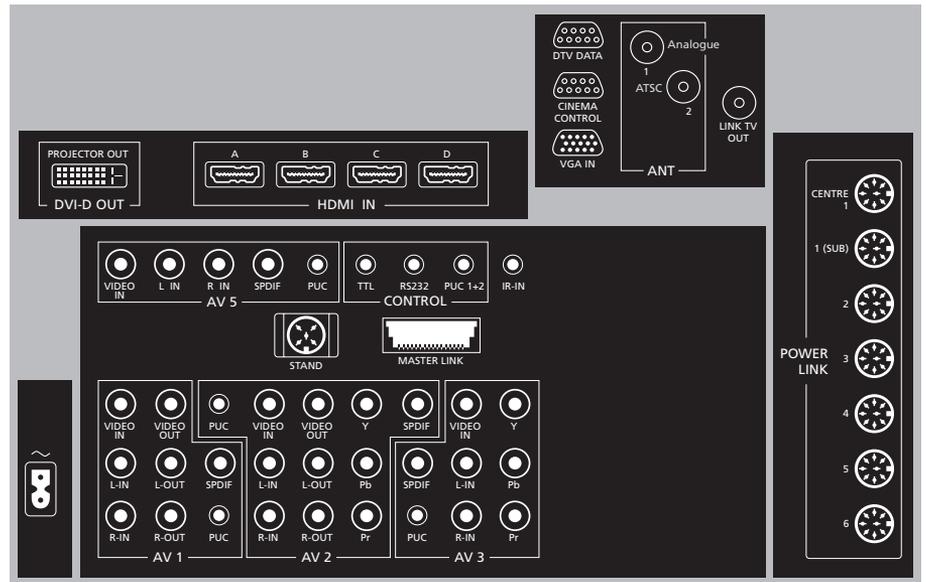
If you have a Bang & Olufsen audio system with a Master Link socket, you can connect it to your television. Use a Master Link cable, and connect it to the Master Link socket on the main connection panel. Refer to 'Program the AV setup – Option' on page 62.

Connection panels

The connection panels on your television allow you to connect signal input cables as well as a variety of extra equipment, such as a video recorder or a linked Bang & Olufsen music system.

Any equipment you connect to these sockets must be registered in the CONNECTIONS menu. For further information, refer to the chapter *'Register additional video equipment'* on page 30.

For further information about connecting speakers in a surround sound setup, refer to the chapter *'Set up the television'* on page 16.



PROJECTOR OUT (DVI-D OUT)

Socket for connection of a projector.

HDMI-IN (A – D)

HDMI™ (High Definition Multimedia Interface) sockets for connection of an HDMI video source or a PC. Sources connected to these sockets can be registered to any of the AV socket groups. Supported formats are: TDMS HDMI, 50 and 60 Hz, 480p, 576p, 600p, 768p, 576i, 480i, 720p, 1080p, 1080i.

AV 1

Socket group for the connection of a primary video recorder or set-top box. You can also connect other types of extra video equipment.

AV 2

Socket group for the AV connection of additional video equipment.

AV 3

Socket group for the AV connection of additional video equipment.

The television keeps a signal path open between a recorder connected to the AV1 socket group and a recordable source connected to the AV3 socket group.

This allows you to set the source on AV3 to switch on automatically, as well as set a recorder on AV1 for timed recording of the source on AV3, provided your connected equipment supports these functions.

AV 5

Socket group for the AV connection of additional video equipment.

PUC (AV 1 – AV3, AV5)

For IR control signals to external equipment connected to one of the AV sockets.

L-IN, R-IN (AV 1 – AV3, AV5)

Right and left line input.

L-R OUT (AV 1 – AV2)

Right and left line output.

VIDEO IN (AV 1 – AV3, AV5)

For connection of a video signal.

VIDEO OUT (AV 1 – AV2)

For connection of a video recorder.

Y – Pb – Pr (AV2 – AV3)

For connection of video signal from an external source such as an HDTV source. Can be used in conjunction with an AV socket – or a digital audio socket.

SPDIF (AV 1 – AV3, AV5)

Digital audio input socket for connection of external equipment.

TTL

Only for use in Hotel setups.

RS232

Only for use in Hotel setups.

PUC 1+2

For connection of external IR transmitter used in connection with Home cinema setups.

IR IN

For connection of an extra IR-receiver when the television is set up with a projector – enabling remote control operation of the television if the television's own receiver is concealed.

STAND

For connection of a motorised stand.

MASTER LINK

Socket for connection of a compatible Bang & Olufsen audio or video system. The socket is also used for BeoLink distribution of sound throughout the house.

DTV DATA

For future use.

CINEMA CONTROL

For connection of a Home Automation system.

VGA

Socket for connection of a High Definition video source or a PC. Supported formats are VGA, 60 Hz, 640 × 480, 848 × 480, 1024 × 576, 800 × 600, 1024 × 768, 1366 × 768 and 1280 × 720.

ANT 1

Aerial input socket from your external aerial or cable TV network.

ANT 2

Aerial input socket for your ATSC tuner.

LINK TV OUT

Aerial output socket for distribution of video signals to other rooms.

CENTRE 1

For connection of a centre speaker such as BeoLab 7. For further information about connecting speakers, refer to the speaker's own Guide.

POWER LINK 1–6

These sockets are used for connecting the external speakers in a surround sound setup.

1(SUB)

Socket used for connecting up to two Bang & Olufsen subwoofers. A cable splitter for such connections is available from your Bang & Olufsen retailer.

~

Connection to the mains.

There are some restrictions as to the types of equipment that can be connected to the socket groups. These restrictions are described below.

- Video recorders can only be connected to the AV1 or AV2 socket groups, as these are the only socket groups for video output. Connect your primary recorder to the AV1 socket group, and the secondary recorder to the AV2 socket group.
- Equipment with VGA output can only be connected and registered to the AV5 or AV6 socket groups.

Sockets for temporary connection

Connect headphones and listen to a TV programme, connect a camera or PC and see the pictures on the screen, or connect a Camcorder and watch or record your home movies.

SPDIF

Digital audio input socket.

L IN – R IN

These sockets are for audio connection (left and right sound channel respectively) of, for example, a camera or camcorder.

S-VIDEO

For the connection of, for example, a game consol.

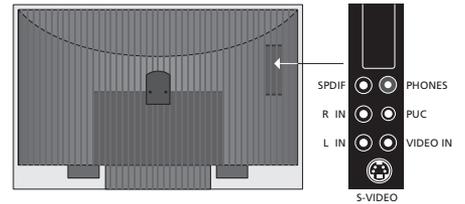
VIDEO IN

This socket is for connection of the video signal of a camera or camcorder.

PUC

For IR control signals to external equipment.

To always activate these sockets by selecting, for example, CAMERA on Beo4, you can register the connected equipment in the CONNECTIONS menu. The CAMERA source is registered to the AV6 socket from the factory. For further information, refer to the chapter *'Register additional video equipment'* on page 30.



PHONES

You can connect stereo headphones to this socket. To mute the speakers connected to the television, press the middle of the $\wedge \vee$ button on Beo4. Press either end of the $\wedge \vee$ button to adjust sound in the headphones. To restore sound in the speakers, press the middle of the $\wedge \vee$ button again.

Connect and use a PC

IMPORTANT! Before connecting a PC to the television, disconnect the television, the computer, and all equipment connected to the computer from the mains.

To connect a computer to the television ...

- > Using the appropriate type of cable, connect one end to the DVI or VGA output socket on your computer, and the other end to the VGA or HDMI socket on the television.
- > To hear sound from the computer in the speakers connected to the television, use the appropriate cable and connect the sound output on the computer to the R-L sockets on the television.
- > Reconnect the television, the computer, and all equipment connected to the computer to the mains. Remember, the computer must be connected to a grounded wall outlet as specified in its setting-up instructions.

If you have connected your PC to the VGA socket on the television, you must register the PC to the AV5 or AV6 socket in the CONNECTIONS menu. A PC connected to the HDMI socket can be registered to any of the AV sockets or socket groups. For further information, refer to the chapter 'Register additional video equipment' on page 30.

Bring up the computer image on the screen

To see the computer picture on the screen, you must bring it up with Beo4.

To bring up the computer picture ...

- > Press LIST repeatedly until PC appears in the Beo4 display
- > Press GO to bring up the picture. You can then operate the computer as you normally would.

Watch digital pictures on your screen

To watch your camera pictures, connect the camera and switch the television on. The television automatically registers the signal and you can see the still pictures on the screen.

If the signal from the camera is switched off...

- > Press LIST repeatedly to display CAMERA on Beo4 and press GO.

In order to display CAMERA on Beo4, you must first add it to the Beo4 list of functions. For further information, refer to the chapter 'Customise Beo4' on page 70.

Find out how to perform the first-time setup procedure and scan in all available channels automatically. In addition, you can find information about how to edit channels and adjust other available settings, such as time, date, picture and sound.

For information about how to place your television and connect additional video equipment, refer to the chapter '*Placement, sockets and connections*' on page 15.

Advanced operation, 7

All you need to know about using your television beyond daily use, such as how to operate timed play and timed standby functions, a connected set-top box, and a connected recorder

Placement, sockets and connections, 15

Find out how to handle and place your television, where the sockets are placed, and how to connect and register extra equipment.

Tuning and preference settings, 25

- First-time setup of your television, 26
- Register additional video equipment, 30
- Loudspeaker setup – surround sound, 32
- Scan in TV channels, 38
- Edit TV channels, 40
- Adjust picture and sound settings, 44
- Set positions for the television to turn to, 46
- Set the time and date, 47
- Activate parental control, 48
- Apply Closed Captioning, 50
- Settings and preferences for the DVD player, 52
- Settings and preferences for the digital tuner, 54
- Digital tuner – What to do if ..., 58
- Digital tuner glossary, 60

BeoLink system, 61

Find out how to connect an audio system to your television and operate an integrated audio/video system. Find out how to make link connections, operate a link system, set up your television in a link room and how to customise Beo4 to your television.

Index, 74

Find the subject you want to know more about.

First-time setup of your television

The setup procedure described here is activated when the television is connected to the mains and switched on for the first time. You are led through an automatic series of on-screen menus in which you must register the extra equipment you have connected, such as a projector and loudspeakers.

If you change your setup at a later date, you can access the same menus and update your settings.

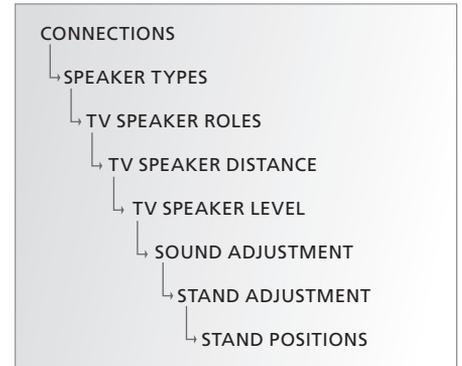
Overview of first-time setup

First-time setup of your television has three main steps: registration of all connected equipment, loudspeaker setup and sound adjustment.

The first-time loudspeaker setup applies only to the speakers you use while watching TV.

When first-time setup is complete, you can then set up your loudspeakers for Home cinema use. Switch on Home cinema and bring up the appropriate menus as described in the chapter '*Loudspeaker setup – surround sound*' on page 32.

For further information about Home cinema, refer to the chapter '*Surround sound and Home cinema*' on page 10 in the Guide.



The sequence of menus in first-time setup:

CONNECTIONS ... Select the type of equipment you have connected to each socket group, the sockets used, the product name, and the source name. For further information about the CONNECTIONS menu, refer to the chapter *'Register additional video equipment'* on page 30.

SPEAKER TYPES ... In this menu, you are led through a procedure in which each of your connected Bang & Olufsen speakers make a sound while that speaker is highlighted in the menu. You then register the speaker type in the menu. For further information about the SPEAKER TYPES menu, refer to page 32 in the chapter *'Loudspeaker setup – surround sound'*.

TV SPEAKER ROLES ... In this menu, you can select the function for each connected speaker in your setup, such as front, back or surround. As you highlight each speaker, a sound is produced by the speaker. Check that the speaker type highlighted in the menu matches the speaker type making the sound. For further information about the SPEAKER ROLES menu, refer to page 33 in the chapter *'Loudspeaker setup – surround sound'*.

TV SPEAKER DISTANCE ... Enter the straight-line distances from each speaker to your listening position. For further information about the TV SPEAKER DISTANCE menu, refer to page 34 in the chapter *'Loudspeaker setup – surround sound'*.

SPEAKER LEVEL ... In this menu, you are to calibrate the sound level for the connected speakers. A calibration sound is produced alternately in each speaker. Adjust the sound level from all the connected speakers to match the sound level from the centre speaker. You can choose whether you want the sound sequence to occur automatically or manually. For further information about the SPEAKER LEVEL menu, refer to page 35 in the chapter *'Loudspeaker setup – surround sound'*.

SOUND ADJUSTMENT ... Adjust sound characteristics, such as volume, bass, treble and loudness. In addition, you can preset two default speaker combinations; one to be used each time you switch on a video source in your television, and one to be used each time you switch on an audio source connected to your television. You can still select a different speaker combination any time you wish. For further information about the SOUND ADJUSTMENT menu, refer to the chapter *'Adjust picture and sound settings'* on page 44.

STAND ADJUSTMENT ... Set the maximum angle the television will turn – left and right, and tilt – up and down. For further information about the STAND ADJUSTMENT menu, refer to *'Calibrate the motorised movement'* on page 28.

STAND POSITIONS ... Set your preferred preset positions for the television to turn to. For further information about the STAND POSITIONS menu, refer to the chapter *'Set positions for the television to turn to'* on page 46.

For information about where and how to connect extra equipment, refer to 'Register additional video equipment' on page 30 and the chapter 'Connection panels' on page 20.

Calibrate the motorised movement

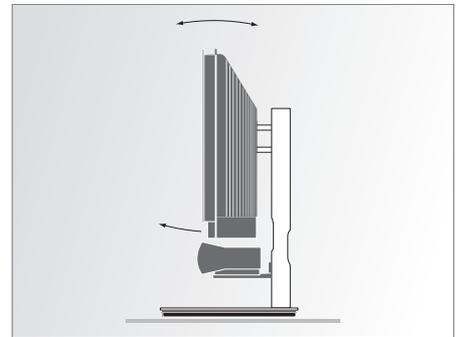
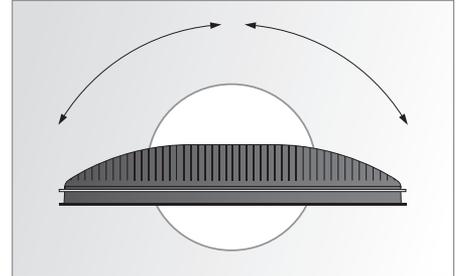
If your setup includes a motorised stand or wall bracket, you will during first time setup be prompted to calibrate the outer positions of the motorised movement. The motorised movement of the television will not work until the calibration process described below has been completed.

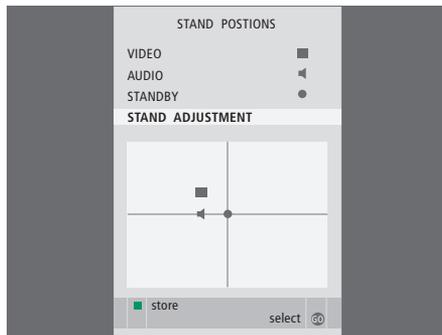
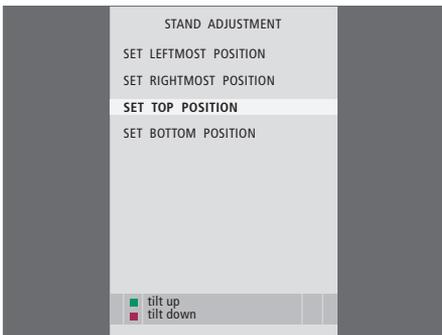
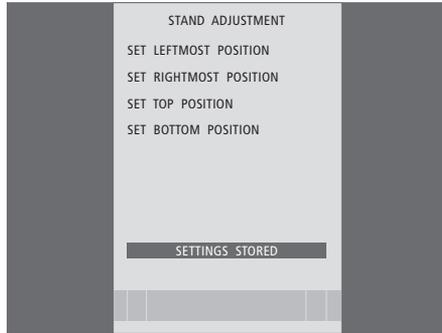
The calibration process allows you to set the maximum angle the television will turn – left and right and tilt – up and down.

When the STAND ADJUSTMENT menu appears ...

- > If your stand or wall bracket is of a type with motorised turn and tilt, move to SET LEFTMOST POSITION and press ◀ to turn the television towards the left, until it have reached the position you wish to restrict the movement to.
- > Move to SET RIGHTMOST POSITION and press ▶ to turn the television towards the right, until it have reached the position you wish to restrict the movement to.
- > Move to SET TOP POSITION and press the **green** button to tilt the television upwards, until it have reached the position you wish to restrict the movement to.
- > Move to SET BOTTOM POSITION and press the **red** button to tilt the television downwards, until it have reached the position you wish to restrict the movement to.
- > Press **GO** to store all settings made during first-time setup.

The STAND POSITIONS menu appears, and you can now make your preferred preset positions for the television to turn to. Refer to page 46 '*Set positions for the television to turn to*'.





Register additional video equipment

If you connect additional video equipment to your television, you must register the equipment in the CONNECTIONS menu.

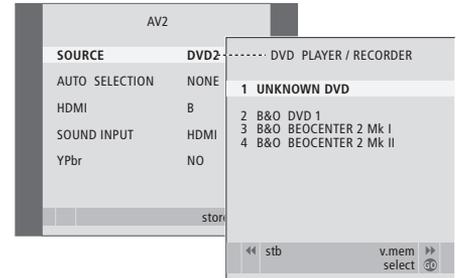
When the television is first set up, some of the equipment connected at that particular moment is detected by the television, and the CONNECTIONS menu appears automatically on the screen during first-time setup for you to register connected equipment which is not detected automatically by the television. If you connect equipment at a later date, on a permanent basis, then you must register this equipment in the CONNECTIONS menu.

For information about where and how to connect extra equipment, refer to the chapter 'Connection panels' on page 20.

What is connected?

Registering the equipment connected to the television enables you to operate it with the Beo4 remote control.

- > Press **TV** to switch on the television.
- > Press **MENU** to bring up the TV SETUP menu and press **▼** to highlight OPTIONS.
- > Press **GO** to bring up the OPTIONS menu. CONNECTIONS is highlighted already.
- > Press **GO** to bring up the CONNECTIONS menu.
- > Press **▲** or **▼** to step between the different socket groups: AV1, AV2, AV3, AV5, AV6, RF and DISPLAY2.
- > Press **GO** to be able to register a connected product type to the highlighted socket group.
- > Press **▲** or **▼** to move between the sockets in the group.
- > Press **◀** or **▶** to register what you have connected to the highlighted socket.
- > Press **GO** while SOURCE is highlighted to be able to select the product from an on-screen list.
- > Press **◀** or **▶** to see lists for other types of products.
- > Press **▲**, **▼** or a number button on Beo4 to highlight the name of the product and press **GO** to register it.
- > Press **▼** to highlight AUTO STANDBY.
- > Press **◀** or **▶** to see the list of standby options for when the connected equipment should switch to standby.
- > Press **GO** to select a standby options.
- > When you have completed your settings for a single socket group, press **GO** to return to the CONNECTIONS menu.
- > Repeat the procedure for each socket group.
- > At first-time setup only, when you have registered all connected equipment, press the **green** button on the Beo4 remote control to store the setup.



What's on the AV1 – AV6 menu ...

SOURCE ... Select the source you have connected.

The option you select indicates which Beo4 button switches on the source. For example, a source registered as VMEM is switched on when you press the VMEM button on Beo4. A source registered as V.AUX is switched on by pressing LIST until V.AUX is shown in the Beo4 display, followed by GO. Options are:

NONE ... if nothing is connected.

V.MEM ... for a connected video recorder or hard disc recorder.

DVD ... occupied by the built-in DVD player

DVD2 ... for a connected DVD player or recorder.

V.AUX ... for other equipment, such as a set-top box.

DTV ... occupied by the ATSC digital tuner.

V.AUX2 ... for other equipment, such as a video game console.

TV ... occupied by the TV tuner.

PC ... for a connected PC.

CENTRE ... for connection of a source centre, which is a device that may contain up to six built-in sources, such as a DVD player, a video tape recorder and a set-top box. This option is only available in the AV1 and the AV2 menus.

AUTO SELECTION ... Allows connected sources to be selected automatically as soon as the television detects a signal. Options are ON and OFF.

HDMI ... Indicates whether or not the equipment is connected to the television via one of the HDMI sockets. Select the appropriate socket: A, B, C or D.

VGA ... Indicates whether or not the equipment is connected to the television via the VGA socket. Options are YES and NO. Only available in the AV5 and AV6 menus, and can only be registered in one of these menus at any time.

While it is possible to register your equipment under any of the available source names, the names you select affect how you can use your sources.

Automatic standby ...

When you register a set-top box in the CONNECTIONS menu, you can also select an 'AUTO STANDBY' time for your set-top box. This means that you can select if the connected set-top box should switch to standby automatically.

The options are:

AFTER 0 MIN ... The set-top box switches to standby immediately when you select another source.

AFTER 30 MIN ... The set-top box switches to standby 30 minutes after you have selected another source*.

AT STANDBY ... The set-top box switches to standby when you switch the television to standby.

NEVER ... The set-top box does not switch to standby automatically.

FOLLOW TV ... The set-top box switches on, when you switch your television on and it switches to standby, when you switch your television to standby.

**If you switch the television to standby before the 30 minutes have passed, the set-top box is also switched to standby.*

Note: If the mains supply has been disconnected or otherwise interrupted, while the television was on, the set-top box might not react, in which case you must switch on the set-top box with the set-top box remote control. Not all set-top boxes support the automatic standby function. If the function is not supported the menu will not appear.

What's on the RF menu ...

You can register the source of your TV video signals in the RF menu, although it is not required during the first-time setup procedure. Options are CABLE, CABLE BOX, ANTENNA and OFF.

For further information about the RF menu and about scanning TV channels, refer to the chapter 'Scan in TV channels' on page 38.

What's on the DISPLAY2 menu ...

Select the projector type.

Regarding High Definition (HD) sources ...

If you have connected a HDTV source to the AV2 or AV3 socket groups and set AUTO SELECTION to ON, auto selection works only if the source provides a SD signal as well as a HD signal.

Connect both the HD and the SD signals to the television. When the SD signal is detected, the television still switches to the configured HD signal. If no HD signal is available, the SD signal is shown.

If, for some reason, you disconnect the extra equipment and then disconnect the television from the mains, you may have to register the equipment again upon reconnection, even if you have not changed your setup of extra equipment.

Add Power Link speakers and up to two BeoLab 2 subwoofers to your television and you have a surround sound system.

A surround sound setup fits easily into your living room. Let the picture determine your ideal listening and viewing position. You get the best sound experience in the area created by the speakers.

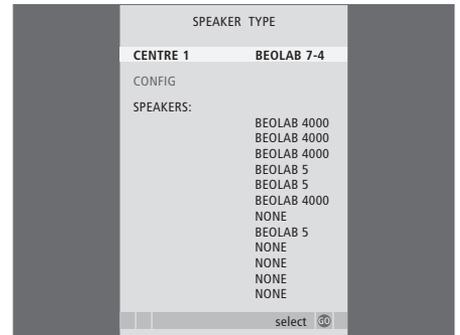
For further information about Home cinema, refer to the chapter ‘Surround sound and Home cinema’ on page 10 in the Guide.

Select your speaker types

Switch on the television in TV or Home cinema mode as described in the Guide before you adjust speaker settings.

To register the speaker types ...

- > Press **TV** to switch on the television.
- > Press **MENU** to bring up the TV SETUP menu and press ▼ to highlight **OPTIONS**.
- > Press **GO** to bring up the **OPTIONS** menu and press ▼ to highlight **SOUND**.
- > Press **GO** to bring up the **SOUND SETUP** menu and press ▼ to highlight **SPEAKER TYPE**.
- > Press **GO** to bring up the **SPEAKER TYPE** menu. The option **CENTRE1** – for a speaker connected to the **CENTRE1** socket – is highlighted.
- > Select your centre speaker or speakers by pressing ◀ or ▶.
- > Press ▼ to highlight **CONFIG**. This allows you to select a **CENTRE** configuration as a single speaker or a pair. Depending on which centre speaker or speakers you select, **CONFIG** may be greyed out and inaccessible.
- > Press ▼ to move on to the next speaker and press ◀ or ▶ to reveal your speaker type. As you highlight each speaker, a sound is produced by the speaker. Check that the speaker name highlighted in the menu matches the name of the speaker making the sound.
- > Press **GO** to store or **EXIT** to leave the menu without storing.

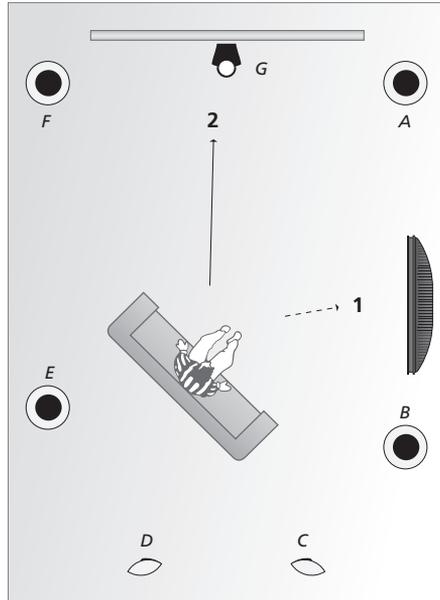


Assign roles to speakers

The speakers you connect to the television can have more than one role. If, for example, you only use one set of front speakers when you watch TV on your television screen, you can turn your chair ninety degrees towards a projector screen and use those same speakers as right front and rear speakers in a surround sound system for Home cinema.

To assign roles to speakers ...

- > Press **TV** to switch on the television.
- > Press **MENU** to bring up the TV SETUP menu and press **▼** to highlight **OPTIONS**.
- > Press **GO** to bring up the **OPTIONS** menu and press **▼** to highlight **SOUND**.
- > Press **GO** to bring up the **SOUND SETUP** menu and press **▼** to highlight **SPEAKER ROLES**.
- > Press **GO** to bring up the **SPEAKER ROLES** menu.
- > The **SPEAKER ROLES** menu appears.
- > Press **▼** to highlight a speaker role. When you highlight a speaker role, a sound is produced by a speaker.
- > If the role highlighted in the menu is correct for the speaker producing the sound, press **▼** to go on to the next role. Otherwise ...
- > ... press **◀** or **▶** to select a new role for the speaker producing the sound.
- > Press **GO** to store or **EXIT** to leave the menu without storing.



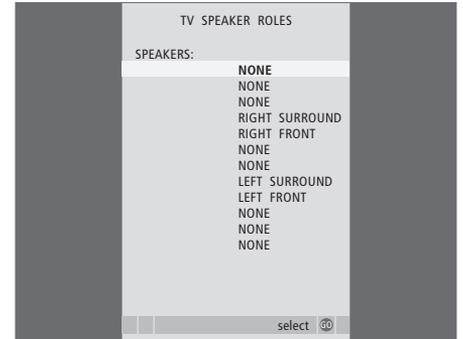
Assigning roles to the connected loudspeakers allows you to specify the speakers' function in a surround sound system and the number of speakers to be used. Assign different roles for watching TV (1) and Home cinema (2), as shown in the illustration:

TV viewing (1) ...

Speaker A:	Left front
Speaker B:	Right front
Speaker C:	Off
Speaker D:	Off
Speaker E:	Right back
Speaker F:	Left back
Speaker G:	Off

Home cinema viewing (2) ...

Speaker A:	Right front
Speaker B:	Right surround
Speaker C:	Right back
Speaker D:	Left back
Speaker E:	Left surround
Speaker F:	Left front
Speaker G:	Centre



What's on the TV SPEAKER ROLES menu ...

Options are NONE, LEFT FRONT, RIGHT FRONT, LEFT SURROUND, RIGHT SURROUND, LEFT BACK, RIGHT BACK, CENTRE BACK.

What's on the CINEMA SPEAKER ROLES menu ...

Options are NONE, LEFT FRONT, RIGHT FRONT, LEFT SURROUND, RIGHT SURROUND, LEFT BACK, RIGHT BACK, CENTRE BACK, CENTRE, LEFT CENTRE, RIGHT CENTRE.

You must select the surround speakers before you can select the back speakers.

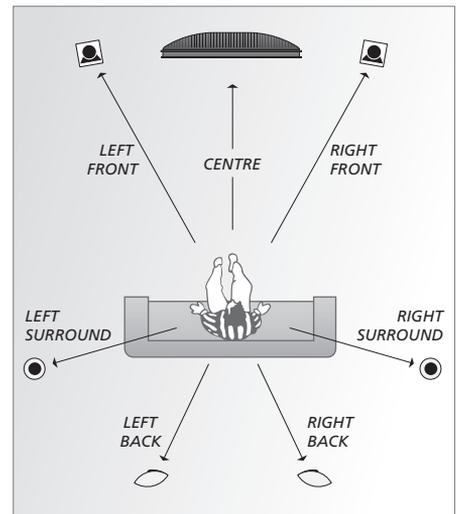
Set speaker distance

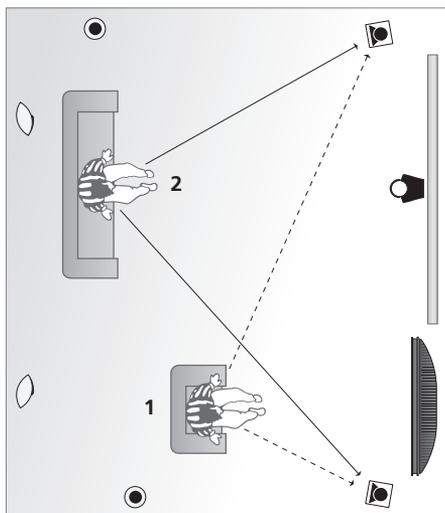
Switch on the television from your favourite viewing position. Enter the straight-line distances in metres between your position and the individual speakers.

To set the speaker distances ...

- > Press **TV** to switch on the television.
- > Press **MENU** to bring up the TV SETUP menu and press **▼** to highlight **OPTIONS**.
- > Press **GO** to bring up the **OPTIONS** menu and press **▼** to highlight **SOUND**.
- > Press **GO** to bring up the **SOUND SETUP** menu and press **▼** to highlight **SPEAKER DISTANCE**.
- > Press **GO** to bring up the **SPEAKER DISTANCE** menu.
- > Press **▲** or **▼** to move the cursor from speaker to speaker and press **◀** or **▶** to select the approximate straight-line distance in metres between your viewing position and each of the speakers.
- > When you have entered the appropriate speaker distances, press **GO** to store or press **EXIT** to leave the menu without storing.

SPEAKER DISTANCE	
CENTRE	1.0 M
LEFT FRONT	1.0 M
RIGHT FRONT	1.0 M
LEFT SURROUND	1.0 M
RIGHT SURROUND	1.0 M
LEFT BACK	1.0 M
RIGHT BACK	1.0 M





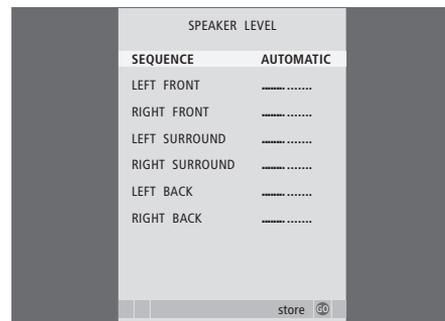
If your setup includes two different viewing positions, a Home cinema setup and a regular TV viewing setup, you must make two different settings. The two positions require different settings, as the speaker setup varies.

Calibrate the sound level

When you have connected speakers in a surround sound setup to the television, you must perform a speaker calibration.

A calibration sound is produced alternately in each of the speakers you have connected in your surround sound setup. Your task is to adjust the sound level from all the connected speakers to match the sound level from the centre speaker. You can choose whether you want the sound sequence to occur automatically or manually.

Once you have performed your speaker calibration, you will only need to re-calibrate the speaker sound if you make changes to the setup, for example, if you move one or more of the speakers.



To calibrate the sound level ...

- > Press TV to switch on the television.
- > Press **MENU** to bring up the TV SETUP menu and press ▼ to highlight **OPTIONS**.
- > Press **GO** to bring up the **OPTIONS** menu and press ▼ to highlight **SOUND**.
- > Press **GO** to bring up the **SOUND SETUP** menu and press ▼ to highlight **SPEAKER LEVEL**.
- > Press **GO** to bring up the **SPEAKER LEVEL** menu. **SEQUENCE** is highlighted.
- > Press ◀ or ▶ to choose between **AUTOMATIC** and **MANUAL**.
- > Press ◀ or ▶ to adjust the speaker sound and ▲ or ▼ to move to another speaker.
- > When you have adjusted the sound for all the speakers in your surround sound setup, press **GO** to store or press **EXIT** to leave the menu without storing.

See the name of the active sound system

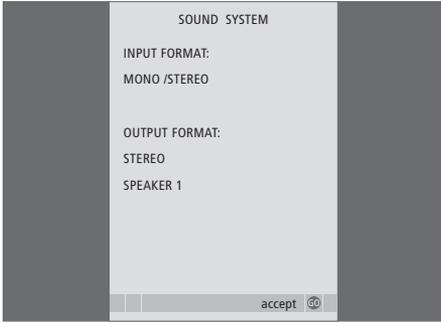
You can see the name of the active sound system for a source or programme on the screen. However, it is not possible to adjust or preset a sound system.

To see the active sound system ...

- > Press **TV** to switch on the television.
- > Press **MENU** to bring up the TV SETUP menu and press ▼ to highlight **OPTIONS**.
- > Press **GO** to bring up the **OPTIONS** menu and press ▼ to highlight **SOUND**.
- > Press **GO** to bring up the **SOUND SETUP** menu and press ▼ to highlight **SOUND SYSTEM**.
- > Press **GO** to bring up the **SOUND SYSTEM** menu. The active sound system is shown.
- > Press **EXIT** to leave all menus.

An example of a sound systems that can appear in the menu is DOLBY DIGITAL 5.1. In this example, the digits indicate the number of sound channels that are available while the sound system is in effect. For example, DOLBY DIGITAL 5.1 refers to Dolby Digital sound in five channels – left, centre, right, left surround, right surround – plus one channel for low-frequency sound.

Your speaker combination does not need to match the number of available channels for the sound system to be in effect.



Scan in TV channels

This chapter describes how to register the source of your TV signal, as well as how to scan in your TV channels.

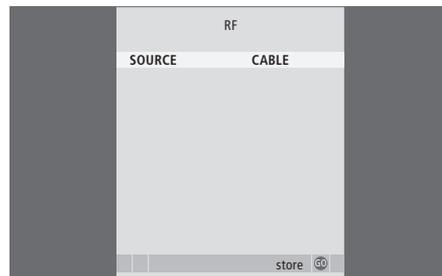
Select video signal type

If you have selected RF in the CONNECTIONS menu, you can enter the source of your TV video signals.

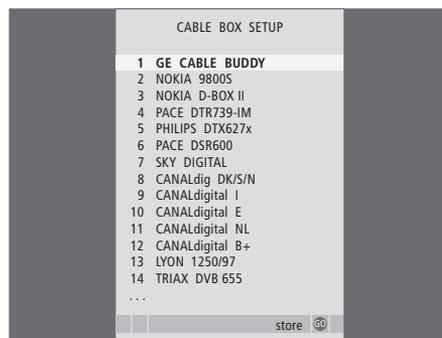
To scan in TV channels...

- > Press **TV** to switch on the television.
- > Press **MENU** to bring up the main menu.
- > Press **▼** to highlight OPTIONS and press **GO** to bring up the menu.
- > Press **▼** to highlight CONNECTIONS and press **GO** to bring up the menu.
- > Press **▼** to highlight RF and press **GO** to bring up the menu.
- > Use **◀** or **▶** to select CABLE, CABLE BOX, ANTENNA or OFF.
- > Press **GO** to store the setting. If you have selected CABLE or ANTENNA, scanning begins immediately. If you have selected CABLE BOX, you can then register your cable box in a menu, as described to the right.

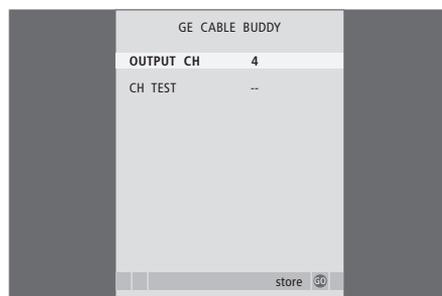
Note that if you select OFF, you must register a source in the CONNECTIONS menu as TV if you wish to switch on the television using the TV button on Beo4. For further information about the CONNECTIONS menu, refer to the chapter 'Register additional video equipment' on page 30.



The RF menu is also accessible via the CHANNEL SETUP menu. For further information about the CHANNEL SETUP menu, refer to the chapter 'Edit TV channels' on page 40.



Select your cable box from the CABLE BOX SETUP list.



In this menu, you can select the output channel for your particular cable box.

Identify the cable box

If you have connected a cable box to the television, you must register the connection in the CABLE BOX SETUP menu.

- > Press ▼ to highlight the name of your cable box.
- > Press GO to store the setting. You can then enter the output channel for the cable box.

When you connect an RF cable box, remember to leave it switched on at all times.

Source for RF input

When you have registered the specific cable box, enter the output channel for the type of cable box and test whether you can change channels on the box.

When the menu for your cable box appears ...

- > Press ◀ or ▶ to select the channel number that corresponds to the output channel set on your cable box. Select CH2, CH3, CH4, CH5 or CH6.
- > Press ▼ to highlight CH TEST and press ◀ or ▶ to test whether you can change channels on the box.
- > If you can not change channels on the cable box, repeat the first two steps. Otherwise...
- > ... press GO to store your settings.

Edit TV channels

You can 'remove' channels you do not use from the channel list.

Channels you 'remove' are skipped over when you step through channels using the arrow buttons on Beo4.

You can still select them in the channel list by pressing the channel number.

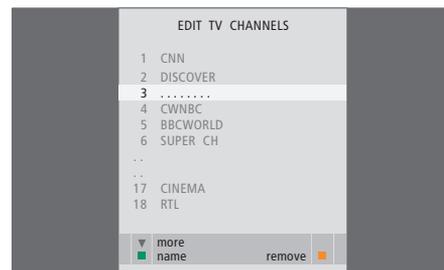
In addition, you can give channels names of your own choice, re-scan to find new channels or fine-tune existing channels.

Remove TV channels

At any time, you can remove channels you do not use. If you wish, you can restore channels that you have removed.

- > Press **TV** to switch on the television.
- > Press **MENU** to bring up the TV SETUP menu, and press **▼** to highlight CHANNEL SETUP.
- > Press **GO** to bring up the CHANNEL SETUP menu. EDIT CHANNELS is already highlighted.
- > Press **GO** to bring up the EDIT CHANNELS menu.
- > Press **▼** or **▲** to select the channel you wish to remove.
- > Press the **yellow** button once to remove the channel.
- > Press the **yellow** button again to restore the channel.
- > When you have removed the relevant channels, press **STOP** to back up through all menus, or press **EXIT** to exit all menus.

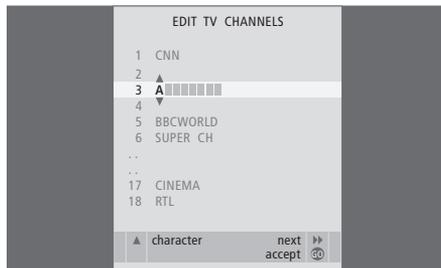
If you select CABLE BOX or OFF in the RF menu, the EDIT CHANNELS and FINE TUNE menus are inaccessible.



Name channels

Give scanned TV channels names of their own to make them easy to locate in the TV channel list.

- > Press **TV** to switch on the television.
- > Press **MENU** to bring up the TV SETUP menu, and press **▼** to highlight CHANNEL SETUP.
- > Press **GO** to bring up the CHANNEL SETUP menu. EDIT TV CHANNELS is already highlighted.
- > Press **GO** to bring up the EDIT TV CHANNELS menu.
- > Press **▼** or **▲** to select the channel you wish to name.
- > Press the **green** button to be able to name the channel. The naming menu is now activated.
- > Press **▼** or **▲** to find the individual characters in the name.
- > Press **▶▶** to move to the next character.
- > Press **GO** to store the name.
- > If necessary, repeat the procedure and name other channel numbers.
- > When you have named the relevant channels, press **GO** to accept your edited list, or press **EXIT** to exit all menus.

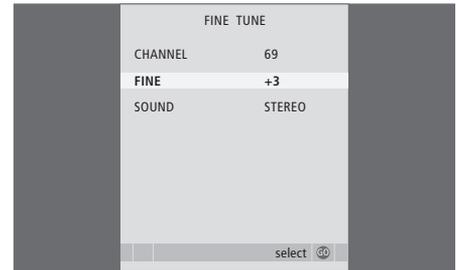


Fine-tune channels

You can fine-tune your TV channels if, for example, you wish to adjust the frequency. .

- > Press **TV** to switch on the television.
- > Press **MENU** to bring up the SETUP menu and press ▼ to highlight CHANNEL SETUP.
- > Press **GO** to bring up the CHANNEL SETUP menu and press ▼ to highlight FINE TUNE.
- > Press **GO** to bring up the FINE TUNE menu. CHANNEL is highlighted.
- > Press ◀ or ▶ to select a channel to fine-tune.
- > Press ▼ to highlight FINE and press ◀ or ▶ to fine-tune the channel.
- > Press ▼ to highlight SOUND and press ◀ or ▶ to select a sound type – STEREO, MONO or SAP – for the channel.
- > Press **GO** to store the settings.

If you select CABLE BOX or OFF in the RF menu, the EDIT CHANNELS and FINE TUNE menus are inaccessible.



What's on the FINE TUNE menu ...

CHANNEL ... Select a channel to fine-tune.
FINE ... Fine tune the frequency of a channel. You can fine tune within the range of -8 – +8.
SOUND (mono, stereo or language) ... Several types of sound may be available for different programmes, mono, stereo or different languages. On the relevant channel or frequency select the options MONO, STEREO or SAP.

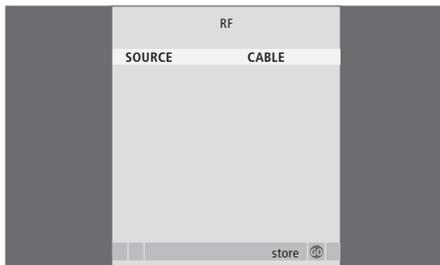
Even though you store a type of sound/language, you can switch between the various types while watching a TV programme. For further information, refer to the chapter 'Surround sound and Home cinema' on page 10 in the Guide.

Re-scan TV channels

You can add new channels or update scanned channels which, for example, have been moved by the broadcaster.

- > Press **TV** to switch on the television.
- > Press **MENU** to bring up the TV SETUP menu and press ▼ to highlight CHANNEL SETUP.
- > Press **GO** to bring up the CHANNEL SETUP menu and press ▼ to highlight RF.
- > Press **GO** to bring up the RF menu.
- > Press ► to select the source of your TV video signals – CABLE, CABLE BOX, ANTENNA or OFF– and press **GO** to store it.
- > If you select CABLE or ANTENNA, scanning begins automatically. New channels are added automatically as they are found.

Note: If you re-scan all your TV channels, all channel settings you have made disappear!



If you only wish to check for a new signal on a scanned channel that has been empty, do not re-scan all TV channels. Instead, select the channel in the channel list using the number buttons on Beo4. For further information about the channel list, refer to the chapter 'Watch TV' on page 6 in the Guide.

If you select CABLE BOX or OFF in the RF menu, the EDIT CHANNELS and FINE TUNE menus are inaccessible.

Adjust picture and sound settings

Picture and sound settings are preset from the factory to neutral values which suit most viewing and listening situations. However, if you wish, you can adjust these settings to your liking.

Adjust picture brightness, colour or contrast. Sound settings include volume, bass and treble.

Store your picture and sound settings temporarily – until your television is switched off – or store them permanently.

For information about how to change the picture format, refer to the chapter 'Surround sound and Home cinema' on page 10 in the Guide.

Adjust brightness, colour or contrast

Adjust the picture settings via the PICTURE menu. Temporary settings are cancelled when you switch off the television.

- > Press **TV** to switch on the television.
- > Press **MENU** to bring up the TV SETUP menu and press ▼ to highlight OPTIONS.
- > Press **GO** to bring up the OPTIONS menu and press ▼ to highlight PICTURE.
- > Press **GO** to bring up the PICTURE menu.
- > Press ▲ or ▼ to move through menu items.
- > Press ◀ or ▶ to adjust the values.
- > Press **EXIT** to store your settings until you switch off the television, or ...
- > ... press **GO** to store your settings permanently.

You can not adjust brightness or contrast when using a projector connected to the television, or when using the television in Home cinema mode.

To temporarily remove the picture from the screen, press LIST repeatedly to display P.MUTE on Beo4, then press GO. To restore the picture again, press any source button, for example, TV. In order to display P.MUTE on Beo4, you must first add it to the Beo4 list of functions. For further information, refer to the chapter 'Customise Beo4' on page 70.



SIZE ... If you experience any irregularities along the edges of the picture select SIZE and adjust.

For video sources using the VGA signal, the following options appear as well:

HOR. SIZE ... Adjusts the picture size along the horizontal axis.

VERT. SIZE ... Adjusts the picture size along the vertical axis.

HOR. POSITION ... Adjusts the picture position along the horizontal axis.

VERT. POSITION ... Adjusts the picture position along the vertical axis.

Note that these four settings only apply for the screen resolution in effect at the time you adjust the settings.

Adjust volume, bass or treble

Sound settings are preset at the factory to neutral values which suit most listening situations. However, if you wish, you can adjust these settings to your liking.

You can preset levels for sound volume, bass, treble and up to two connected BeoLab 2 subwoofers.

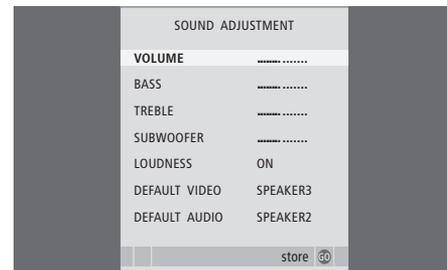
You can switch the loudness feature on or off. The loudness feature compensates for the human ear's lack of sensitivity to high and low frequencies. These frequencies are boosted at low volume levels so that low music becomes more dynamic.

In addition, you can preset two default speaker combinations; one to be used each time you switch on a video source in your television, and one to be used each time you switch on an audio source connected to your television. You can still select a different speaker combination any time you wish.

For further information about speaker combinations, refer to the chapter 'Surround sound and Home cinema' on page 10 in the Guide.

To adjust sound ...

- > Press **TV** to switch on the television.
- > Press **MENU** to bring up the TV SETUP menu and press **▼** to highlight **OPTIONS**.
- > Press **GO** to bring up the **OPTIONS** menu and press **▼** to highlight **SOUND**.
- > Press **GO** to bring up the **SOUND SETUP** menu. **ADJUSTMENT** is already highlighted.
- > Press **GO** to bring up the **SOUND ADJUSTMENT** menu.
- > Press **▲** or **▼** to select an item to adjust.
- > Press **◀** or **▶** to adjust the values or choose a setting.
- > Press **EXIT** to store your settings until you switch off your television.
- > Press **GO** to store your settings permanently.



What's on the SOUND ADJUSTMENT menu ...

- VOLUME ...** Adjusts the volume level the TV uses when you switch it on.
- BASS ...** Adjusts the bass level.
- TREBLE ...** Adjusts the treble level.
- SUBWOOFER ...** (only available if you have connected one or two BeoLab 2 subwoofers) Adjusts the sound level from the subwoofer. If you have connected two subwoofers, the adjustment applies to both of them.
- LOUDNESS ...** The loudness feature compensates for the human ear's lack of sensitivity to high and low frequencies. These frequencies are boosted at low volume levels so that low music becomes more dynamic. Loudness can be set to ON or OFF.
- DEFAULT VIDEO ...** Set the speaker combination you want to use when switching on a video source in your television.
- DEFAULT AUDIO ...** Set the speaker combination you want to use when switching on an audio source in your television.

The content of the SOUND menu varies according to what you have connected to the television.

Set positions for the television to turn to

If your television is equipped with the optional motorised stand, you can turn it using the Beo4 remote control. If the stand has a tilt function, you can also tilt it.

Furthermore, you can program the television to turn automatically to face your favourite viewing position when you switch on the television, turn to a different position when you listen to, for example, a connected radio, and turn away to a standby position when you switch it off.

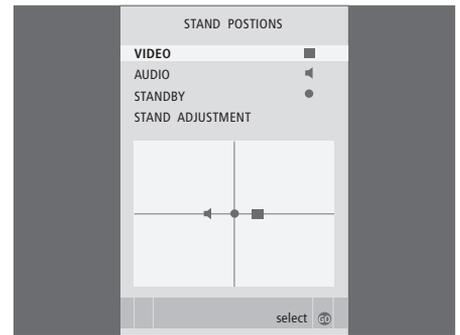
You can also turn your television by hand.

Choose one position for when you switch the television on, one for audio mode, and one for when you switch it off.

- > Press **TV** to switch on the television.
- > Press **MENU** to bring up the TV SETUP menu and press **▼** to highlight **STAND POSITIONS**.
- > Press **GO** to bring up the **STAND POSITIONS** menu.
- > Press **GO** to determine the **VIDEO** position.
- > Press **◀** or **▶** to turn the television and **▲** or **▼** to tilt it, and place it according to your viewing position.
- > Press **GO** to store the position.

To store a stand position for when an audio source is switched on via the television ...

- > Press **▼** to move to **AUDIO**.
- > Press **GO** to determine the **AUDIO** position.
- > Press **◀** or **▶** to turn the television and **▲** or **▼** to tilt it, and place it as you wish.
- > Press **GO** to store the position.



To store a stand position for when the television is switched off and in standby ...

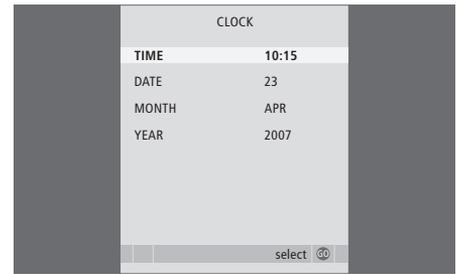
- > Press **▼** to move to **STANDBY**.
- > Press **GO** to determine the **STANDBY** position.
- > Press **◀** or **▶** to turn the television and **▲** or **▼** to tilt it, and place it as you wish.
- > Press **GO** to store the position.
- > Press **EXIT** to leave the menus.

NOTE! For information about first-time installation of the motorised stand, refer to the chapter 'First-time setup of your television' on page 26.

When you preset your television to switch itself on or off at a particular time, or when you preset a timed recording of a programme on a connected video recorder, the clock ensures that these features are switched on and off at the right times.

To bring up the clock in the display, press LIST repeatedly to display CLOCK* on Beo4, then press GO. The clock display disappears again after ten seconds.

- > Press TV to switch on the television.
- > Press MENU to bring up the TV SETUP menu and press ▼ to highlight OPTIONS.
- > Press GO to bring up the OPTIONS menu and press ▼ to highlight CLOCK.
- > Press GO to bring up the CLOCK menu.
- > Press ◀ or ▶ to see your choices for each item.
- > Press ▲ or ▼ to move through menu items.
- > Press GO to store your clock and calendar options, or ...
- > ... press EXIT to exit all menus without storing.



Abbreviations for months

Jan ...	January	Jul ...	July
Feb ...	February	Aug ...	August
Mar ...	March	Sep ...	September
Apr ...	April	Oct ...	October
May ...	May	Nov ...	November
Jun ...	June	Dec ...	December

*NOTE! In order to display CLOCK on Beo4, you must first add it to the Beo4 list of functions. For further information, refer to the chapter 'Customise Beo4' on page 70.

Activate parental control

If parental control is available in your area, you can switch it on or off. You can apply TV parental guidelines and the MPAA rating system.

If you assign an access code and switch parental control on, you will be required to enter this access code whenever you want to watch a programme or channel that has been blocked.

Whenever a blocked programme or channel is selected, your screen goes blank, the sound is shut off and an on-screen menu prompts you to enter your access code.

If you wish to change or override your settings, the access code is also required.

Assign an access code

To make full use of the parental control system, begin by assigning an access code. This restricts access to the programmes and channels with broadcasted restrictions, and prevents the settings from being changed by others. Choose a code that is easy to remember. The default setting is 0000.

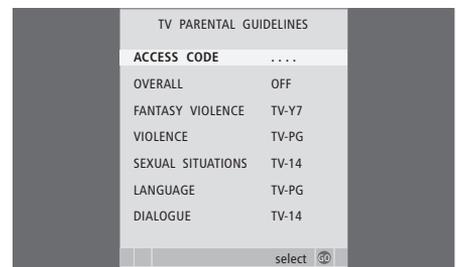
When, for example, TV is switched on ...

- > Press **MENU** to call up the main menu.
- > Press **▼** to highlight **OPTIONS** and press **GO** to bring up the menu.
- > Press **▼** to highlight **PARENTAL CONTROL** and press **GO** to bring up the menu.
- > Press **▼** to highlight **ACCESS CODE** and press **GO** to bring up the menu.
- > Use the number buttons on Beo4 to enter the default code (0000).
- > Press **▼** to move the cursor down to **NEW CODE**.
- > Enter a new code.
- > Enter the new code once more to confirm it.
- > Press **GO** to store the code.
- > Press **EXIT** or a source button, for example **TV**, **DTV** to exit on-screen menus.

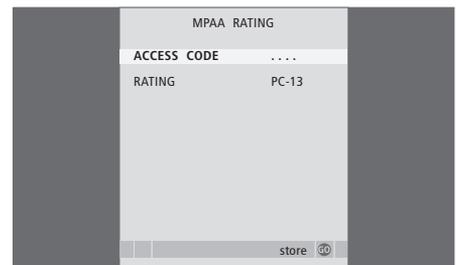
*To change your code at any time, follow the procedure described above. If, for some reason, you have forgotten your code, then you can key in 9999 three times when **OLD CODE** is highlighted. This allows you to enter a new code.*



Assign an access code.



Preset TV Parental guidelines.



Preset the MPAA rating.

Preset TV Parental guidelines

If you choose to apply the system of TV parental guidelines, you can select one common restriction level for all categories or preset the restriction level for the individual categories.

When, for example, TV is switched on ...

- > Press **MENU** to call up the main menu.
- > Press **▼** to highlight **OPTIONS** and press **GO** to bring up the menu.
- > Press **▼** to highlight **PARENTAL CONTROL** and press **GO** to bring up the menu.
- > Press **GO** to bring up the **TV PARENTAL GUIDELINES** menu.
- > Use the number buttons on Beo4 to enter the access code. If you have not yet preset your own code, enter the default code (0000).
- > Press **◀** or **▶** to adjust the setting **OVERALL**. This automatically adjusts the different categories to one common restriction setting. Options are: TV-Y, TV-Y7, TV-G, TV-PG, TV-14, TV-MA, and N/A.

Preset the MPAA rating

You can choose to apply the MPAA rating system as parental control. Select and store the restriction level that you want to impose.

When, for example, TV is switched on ...

- > Press **MENU** to bring up the main menu.
- > Press **▼** to highlight **OPTIONS** and press **GO** to bring up the menu.
- > Press **▼** to highlight **PARENTAL CONTROL** and press **GO** to bring up the menu.
- > Press **▼** to highlight **MPAA RATING** and press **GO** to bring up the menu.
- > Enter the access code using the number buttons on Beo4. If you have not yet entered your own code, enter the default code 0000.
- > Press **◀** or **▶** to adjust the setting **RATING**. This automatically adjusts the restriction setting. Options are: G, PG, PG-13, R, NC-17, X, NOT RATED, N/A, and OFF.
- > Press **GO** to store the setting.
- > Press **EXIT** or a source button, such as **TV**, to exit on-screen menus.

When parental control is active ...

When a blocked programme or channel is selected, the screen goes blank, the sound is shut off, and the access code must be entered. All the programmes and channels then become available, and parental control is switched off until you switch the television to standby.

TV is switched on and a blocked channel is selected ... **TV**

Enter your access code **0 - 9**

The selected channel is now available, as are all other blocked channels

If you do not know the code or you wish to view another channel, press **▲** or **▼** to change channels

If an incorrect access code is entered three times, the television automatically switches to standby.

Apply Closed Captioning

You can apply subtitles, or Closed Captioning, to all your sources and channels, provided that the broadcaster supports Closed Captioning.

Select a type of Closed Captioning via the CLOSED CAPTIONING menu.

You can, however, choose to turn Closed Captioning on or off at any time – for example, while watching a specific programme – even if you have preset the television to display Closed Captioning at all times.

Closed Captioning options

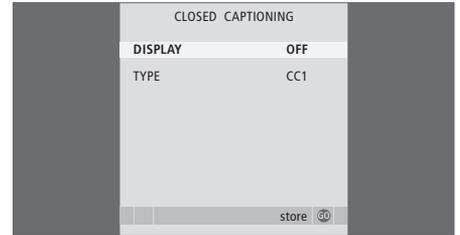
Choose the type of Closed Captioning you wish to view and whether or not you want Closed Captioning to be displayed automatically.

While the television is on ...

- > Press **MENU** to bring up the main menu.
- > Press **▼** to highlight **OPTIONS** and press **GO** to bring up the menu.
- > Press **▼** to highlight **CLOSED CAPTIONING** and press **GO** to bring up the menu.
- > Press **◀** or **▶** to adjust the setting for **DISPLAY**. Choose **ON** or **OFF**.
- > Press **▼** to highlight **TYPE** and press **◀** or **▶** to select a type of Closed Captioning. Options are: **CC1**, **CC2**, **CC3**, **CC4**, **TEXT1**, **TEXT2**, **TEXT3**, or **TEXT4**.
- > Press **GO** to store.
- > Press **EXIT** or a source button, such as **TV** or **DTV**, to leave all menus, or press **STOP** to back up through previous menus.

To turn Closed Captioning on or off while watching a programme ...

- > Press **TEXT** to see the status of closed captioning – **CC ON** appears on the screen
- > Press **TEXT** again to turn Closed Captioning off
- > Press **TEXT** a third time to restore Closed Captioning



Settings and preferences for the DVD player

The DVD menus offers numerous options for settings and adjustments. On the following pages you find detailed information about the individual menus.

For an overview of the DVD menu structure, refer to the DVD menu overview on page 5.

What's on the *A-B Repeat* menu ...

The *A-B repeat* function allows you to specify two points on a disc that form a loop to be played over and over.

When you select the start or end point in the menu, the current playback point is stored.

Select *Off* when you no longer wish to repeat playback of the selected section of the disc.

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

The *Repeat* function allows you to repeat a title, chapter or track on a disc over and over.

When you select a title, chapter or track in the menu, the current one is stored.

Select *Repeat Off* when you no longer wish to repeat playback of the selected section of the disc.

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

The *Random* function allows you to play titles, chapters or tracks on a disc in random order.

Select *Random Off* when you no longer wish to repeat playback of the selected section of the disc.

What's on the *Search Mode* menu ...

The *Search Mode* function allows you to search through a disc, either by searching for a specific title or chapter, or by searching for a moment in elapsed time on a disc.

Use the number buttons to move to this point in time.

What's on the *Digital Audio Out* menu ...

Dolby Digital Out ... Options are *Dolby Digital* and *Dolby Digital >PCM*, which is two channel stereo sound.

DTS Out ... Options are *DTS* and *DTS > PCM*, which is two channel stereo sound.

What's on the *Video Output* menu ...

TV Screen ... Do not change.

Component Out ... Do not change.

AV Connector Out ... Do not change.

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

Audio Language ... Select the language for audio playback from the languages shown, and if your preferred language is available on your DVDs, then audio playback will be in that language.

Subtitle language ... Select your preferred subtitle language from the languages shown, and if your preferred language is available on your DVDs, then subtitles will be shown in that language*.

DVD Menu Language ... Select your preferred language for the disc menus from the available languages shown, and if your preferred language is available on your DVDs, then the disc menus will be in that language.

Subtitle display ... Select whether or not subtitles are to be displayed during playback.

**Some DVDs will require you to choose a subtitle language from a disc menu, even if you have previously selected a default subtitle language from the 'Language' menu.*

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

OSD Language ... Select the language for the menus from the languages shown.

On Screen Display ... Select whether or not status displays are to be shown on the screen. Options are *On* and *Off*.

Angle Indicator ... Select whether or not you wish the camera icon to appear on the screen during scenes with multiple camera angles. Options are *On* and *Off*.

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

Parental Lock ... Some DVDs feature a Parental Lock level. If you specify a level lower than the one contained on the disc, the disc will not play unless your pincode is entered.

Some discs also support the Country Code feature. This means that the player does not play certain scenes on the disc, depending on the Country Code you set.

Before you can set the Parental Lock level or the Country Code, you must enter a pincode. You can change the pincode at any time in the *Parental Lock* menu.

Menus for the pincode, Parental Lock level and Country Code appear when you set *Parental Lock* to *On*. Use the number buttons on Beo4 to enter your pincode, Parental Lock level and Country Code and press GO to store your settings.

DivX VOD® ... Select to see your registration code.

What's on the *Disc Navigator* menu ...

The *Disc Navigator* menu allows you to quickly step to specific titles or chapters on a disc. Use the arrow buttons to select a title or chapter and press GO to start playback.

Settings and preferences for the digital tuner

In the digital tuner menus you can make your own settings, enter information on your current terrestrial or cable setup and make channel searches.

The V-CHIP menu allows you to restrict access to particular channels or rated contents.

About channels ...

Once you have scanned in the channels, you can make a Channel List of your favourite channels. This means that you reduce the time you spend looking for specific channels.

Contents of the CHANNEL menu ...

AUTO SCAN ... In the AUTO SCAN menu you scan in all channels automatically. Select which channels to scan for. Options are: AIR, CABLE AUTO, CABLE STD, CABLE HRC and CABLE IRC. When you have selected the channels to scan you must confirm or cancel the channel search. Default settings are AIR and CONFIRM. When you scan in channels, the current channel list and favourite list will be lost. If you wish to know which signal type to use, contact your cable provider.*

FAVOURITE CHANNEL ... In the FAVOURITE CHANNEL menu, you can make a list of your favourite channels. If you have not made a favourite list, the main list will appear when you press and hold GO.

CHANNEL ADD/DELETE ... In the CHANNEL ADD/DELETE menu you can add or delete channels.

The on-screen display gives a status of whether a channel is added to or deleted from the main list. The status can be changed from added to deleted or from deleted to added by pressing GO. When a channel is deleted it is removed from the channel sequence, but it can still be reached if you enter the channel digits.

SIGNAL STRENGTH ... In the SIGNAL STRENGTH menu you can see the strength of the received signal.

About the CAPTION menu ... *

You can apply subtitles, or Closed Captioning, to all your channels.

Choose the type of Closed Captioning you wish to view and whether or not you want Closed Captioning to be displayed automatically.

You can choose to switch Closed Captioning on or off at any time – for example, while watching a specific programme – even if you have preset the system to display Closed Captioning at all times.

Contents of the CAPTION menu ...

ON/OFF ... In the ON/OFF menu you can choose to display Closed Captioning or not. The default setting is OFF.

ANALOGUE MODE ... In the ANALOGUE MODE menu, you can select the mode to use for Closed Captioning in your analogue television receiver, and if the Closed Captioning function is set to ON. Options are: CC1, CC2, CC3, CC4, TEXT1, TEXT2, TEXT3 and TEXT4. The default setting is CC1.

DIGITAL MODE ... In the DIGITAL MODE menu, you can select the mode to use for Closed Captioning in your digital television receiver, and if the Closed Captioning function is set to ON. Options are: SERVICE1, SERVICE2, SERVICE3, SERVICE4, SERVICE5 and SERVICE6. The default setting is SERVICE1.

If you press TEXT repeatedly you change the mode or switch Closed Captioning on or off, even if you have preset the Closed Captioning function to ON.

DIGITAL FONT OPTIONS ... In the DIGITAL FONT OPTIONS menu, you can set your preferences for the digital font, if you have set the Closed Captioning function to ON:

SIZE ... Select the size of the digital font.

Options are: DEFAULT, SMALL, STANDARD and LARGE. The default setting is DEFAULT.

STYLE ... Select a style for the digital font. You can choose between eight different styles. The default setting is DEFAULT.

COLOUR ... Select a colour for the background, the foreground and the edge of the digital font. You can choose between DEFAULT and eight different colours and the default setting is DEFAULT.

OPACITY ... Select the opacity for the background and foreground of the digital font. Options are: DEFAULT, SOLID, TRANSLUCENT, TRANSPARENT and FLASHING. The default setting is DEFAULT.

EDGE STYLE ... Select a edge style for the digital font. You can choose between seven different styles. The default setting is DEFAULT.

The DEFAULT option in the DIGITAL FONT OPTIONS menu is the presentation as it is set by the programme provider.

About the V-CHIP menu ... *

The V-CHIP menu allows you to lock specific television contents.

When you enter the V-CHIP menu, you can lock (and later unlock) specific contents to avoid others from watching the contents. Select the contents you wish to lock. Whenever you try to access locked contents, you are asked to key in your V-Chip pincode.

If one content lock is released by the correct V-Chip pincode all contents are open and content lock will not be active again before the system enters standby.

The V-Chip pincode system of the built-in ATSC tuner is not the same as the pincode system for your television, but it may be easier for you, if you choose to use the same code for both systems.

Contents of the V-CHIP menu ...

Before you can change the setting in the V-CHIP menu, you must enter the V-Chip pincode. The default setting of the V-Chip pincode is 0000.

CHANGING PIN ... You can change your V-Chip pincode at any time. Use 0 – 9 and enter a new four-digit V-Chip pincode. Enter the new V-Chip pincode again to confirm.

US RATING SETTING ... In the US RATING SETTING menu you can apply the MPAA rating system or the TV-PG system as parental control. Depending on which system you choose options are:

- ALLOW ALL
- BLOCK ALL
- TV-Y, TV-Y7, TV-G, TV-PG, TV14, TV-MA
- FV, D, L, S, V
- P, PG, PG13, R, NC17, X

The default setting is ALLOW ALL.

CANADIAN RATING SETTING ... In the CANADIAN RATING SETTING menu you can apply the English classification system or the French classification system as parental control. Depending on which system you choose options are:

- ALLOW ALL
 - BLOCK ALL
 - E, C, C8+, G, PG, 14+, 18+
 - E, G, 8+, 13+, 16+, 18+
- The default setting is ALLOW ALL.

Should you forget your code ...

If you forget your V-Chip pincode, enter the V-CHIP menu and key in '9999'. You must now enter a new personal code.

About the SETUP menu ...

In the SETUP menu, you set up your personal preferences. You can select a menu language to be used in the menus. When you select a preferred language for audio, this language will be used when available from the programme provider.

Contents of the SETUP menu ...

TIME ... The clock is automatically set by the programme provider, but it can fail, if the information is sent wrong.

DAYLIGHT SAVING ... Select whether to use daylight saving for the clock or not. Options are YES and NO. The default setting is YES. Note that DAYLIGHT SAVING will only work if the programme provider's daylight saving flag is set to ON and you have set the DAYLIGHT SAVING to YES. Otherwise, real daylight saving is set to OFF.

TIMEZONE ... Set the local information for the clock. Options are EASTERN, CENTRAL, MOUNTAIN, PACIFIC, ALASKA, HAWAII, ATLANTIC and NEWFOUNDLAND. The default setting is EASTERN.

SOUND ...

MULTI-TRACK SOUND ... Select the preferred audio language to be used, if available from the programme provider. Options are ENGLISH, SPANISH and FRENCH. The default setting is ENGLISH.

DIGITAL OUTPUT ... Select the preferred sound output. Options are DOLBY DIGITAL and PCM. The default setting is DOLBY DIGITAL.

MENU LANGUAGE ... Select the language to be used in the menus. Options are ENGLISH, SPANISH and FRENCH. The default setting is ENGLISH.

VERSION INFORMATION ... Use this menu to see the current ATSC tuner version, model and release date.

NOTE! In Korea only MULTI-TRACK SOUND, DIGITAL OUTPUT and VERSION INFORMATION are available. Options for MULTI-TRACK SOUND are KOREAN, ENGLISH and JAPANESE. Default setting is KOREAN.

Digital tuner – What to do if ...

The table to the right describes some of the situations you may experience with the built-in ATSC tuner, and what to do to resolve these situations.

If ...	Then ...
You hear of a new channel and wish to find it ...	Check for information from the programme provider and make a channel search. Bring up the ATSC main menu> <i>CHANNEL</i> > <i>AUTO SCAN</i> . When you scan in channels, the current channel list and favourite list will be lost
When you choose a channel number, the screen is black ...	The programme provider has probably moved the channel. Check for information from the programme provider and make an automatic channel search. Bring up the ATSC main menu> <i>CHANNEL</i> > <i>AUTO SCAN</i> .
When you choose a channel number, the information display shows "NO SIGNAL" ...	It could be that you have selected a channel that does not broadcast around the clock. When no programme is broadcast, the information display will show 'NO SIGNAL'.
When you choose a channel number, the information display shows "SEARCHING" ...	You have selected a channel where a signal is present, but the channel is not in the list, and the ATSC tuner is searching for a channel to match the signal.
You have forgotten your code for access control ...	Bring up the ATSC main menu> <i>V-CHIP</i> and enter '9999' (for further information see page 56).
You want to restrict the access to certain contents, (<i>ACCESS CONTROL</i>) ...	Bring up the ATSC main menu> <i>V-CHIP</i> . Make your settings for access control as described in the menu. In the channels lists you are asked for the V-Chip pincode when you try to access channels that are 'locked' (for further information, see page 56).

If ...	Then ...
You want to store the channel you are currently watching in a Favourite list ...	<p>Note the channel number of the channel you wish to add to your Favourite List.</p> <p>Bring up the ATSC main menu><i>CHANNEL</i>><i>FAVOURITE CHANNEL</i>.</p> <p>Find the channel you want, and add it as described in the menu.</p>
There is no signal, the picture is poor, or several channels are missing ...	<p>Check the signal strength in the ATSC main menu><i>CHANNEL</i>><i>SIGNAL STRENGTH</i> (for further information, see page 54).</p> <p>If the strength is too poor, check your antenna or cable installation or contact your installer.</p>
There is no picture when you switch to DTV or the system seems to 'lock' on one channel ...	<p>Switch your television to standby and wait until the standby indicator turns red, then switch on again.</p> <p>If the problem persists, disconnect your system from the mains and check connections, then reconnect to the mains.</p> <p>If this does not solve the problem, contact your Bang & Olufsen retailer.</p>
There is no sound while watching a programme ...	<p>If the selected audio language is not available from the programme provider, there is no sound in the speakers. Press the green button on the remote control to change audio language.</p> <p>Or, bring up the ATSC main menu><i>SETUP</i>><i>SOUND</i>><i>MULTI-TRACK SOUND</i> to change the setup for the audio language (for further information, see page 57).</p>

Digital tuner glossary

Term	Explanation
ATSC – Advanced Television Systems Committee	The organisation develops broadcast standards for digital television, using MPEG II compression. ATSC: American standards for transmission and reception of digital television signals. Although American, the standards have been adopted in many countries worldwide.
Cable STD, Cable HRC and Cable IRC	Different types of cable television signals. STD: standard, HRC: harmonically related carrier, IRC: incremental coherent carrier.
CC1 – 4	Closed Captioning 1 – 4. Different types of closed captioning channels. Allows the user to select a language for closed captioning in analogue mode.
Programme Guide or Electronic Program Guide (EPG)	This interactive feature allows the user to access and scroll through complete programme listings covering now and next programmes on the television screen.
Programme provider	Broadcaster, company or corporation that supplies audio or video programmes via terrestrial antennas.
Rating system	The US and Canadian rating systems are parental control systems that allow the user to limit access to certain programmes.
Service1 – 6	Different types of closed captioning service modes for digital channels. Allows the user to select a language for closed captioning in digital mode.
TEXT1 – 4	Different types of text channels. Allows the user to select a text channel language in analogue mode.
V-Chip	Viewer control chip. Allows user to set a password to control access to programmes based on rating (based on the motion picture rating system).

All your Bang & Olufsen products can be connected in a BeoLink system. This enables you to distribute sound from one central source throughout the house.

Advanced operation, 7

All you need to know about using your television beyond daily use, such as how to operate timed play and timed standby functions, a connected set-top box, and a connected recorder

Placement, sockets and connections, 15

Find out how to handle and place your television, where the sockets are placed, and how to connect and register extra equipment.

Tuning and preference settings, 25

Find out how to set up your television for the first time and scan in channels. This chapter also contains information about settings for time, date, picture, sound, parental control and Closed Captioning.

BeoLink system, 61

- Connect and operate an audio system, 62
- Distribute sound and picture with BeoLink, 64
- Your television in a link room, 66
- Two televisions in the same room, 68
- Customise Beo4, 70

Index, 72

Find the subject you want to know more about.

Connect and operate an audio system

If you connect a compatible Bang & Olufsen audio system to the television using a Master Link cable, you obtain the benefits of an integrated audio/video system.

Play a CD on your audio system using speakers connected to the television, or switch on a TV programme and send the sound to your audio system speakers.

Your AV system can be placed together in one room or in two rooms with the television placed in one room and the audio system with a set of speakers placed in another.

Not all Bang & Olufsen audio systems support integration with the television.

Connect your audio system to the television

Using a Master Link cable, connect the sockets marked MASTER LINK on the television and the audio system.

Program the AV setup – Option

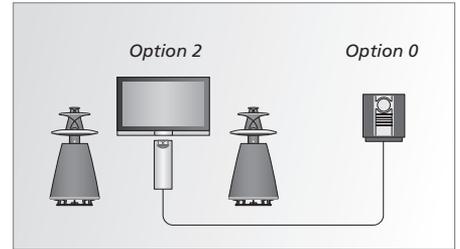
If your television has been set up in an AV system, you may need to set it to the correct Option with Beo4. Switch the entire system to standby first.

Option setting for the television

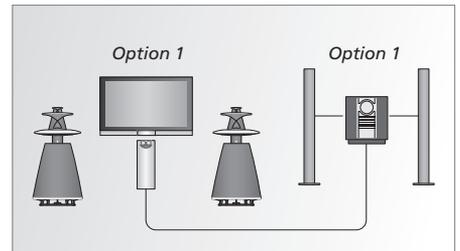
- > While holding the **•** button on Beo4, press **LIST**.
- > Let go of both buttons.
- > Press **LIST** repeatedly to display **OPTION?** on Beo4 and press **GO**.
- > Press **LIST** repeatedly to display **V.OPT** on Beo4 and then key in the appropriate number (1, 2 or 4).

Option setting for the audio system

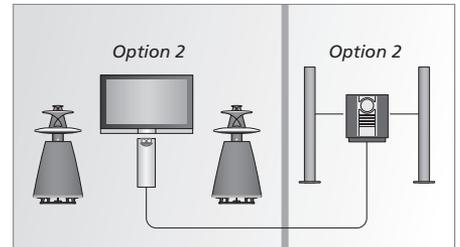
- > While holding the **•** button on Beo4, press **LIST**.
- > Let go of both buttons.
- > Press **LIST** repeatedly to display **OPTION?** on Beo4 and press **GO**.
- > Press **LIST** repeatedly to display **A.OPT** on Beo4 and then key in the appropriate number (0, 1, 2, 5 or 6).



The television and an audio system set up in one room – all speakers are connected to the television.



You can choose to set up your television (with or without additional speakers) and the audio system (with a connected set of speakers) in the same room.



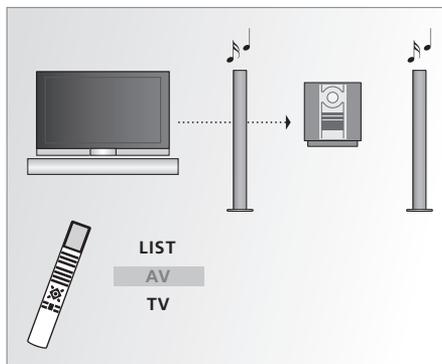
You can choose to set up your audio system in one room, and the television (with or without additional speakers) in another.

Use an integrated audio/video system

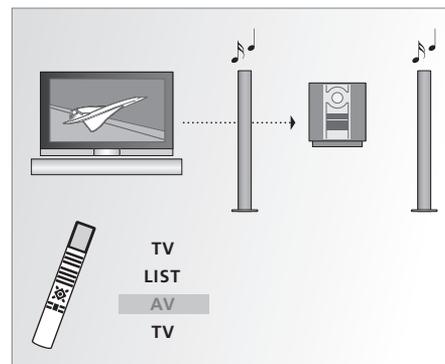
If you integrate your audio system and your television, you can choose a speaker combination appropriate to the current video or audio programme, and also record video sound on the audio system.

Video sound recording

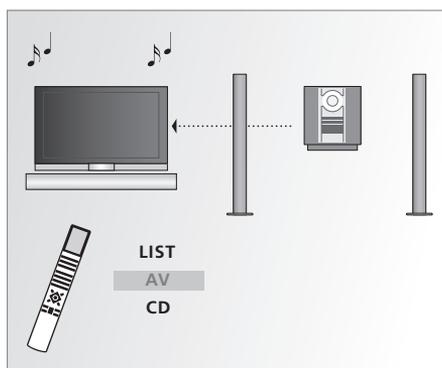
If you listen to sound from your television on your Bang & Olufsen audio system's speakers, and your audio system has a tape recorder, you can record television sound on the audio tape recorder. Refer to the Guide enclosed with your audio system for further information.



To listen to sound from a television source on your audio system speakers without switching on the screen, press LIST repeatedly to display AV* on Beo4, and then press a source button, such as TV.



To listen to sound from a television source on your audio system speakers with the screen switched on, press TV, press LIST repeatedly to display AV*, and then press TV again.



To listen to audio sound on the speakers connected to the television, press LIST repeatedly to display AV* on Beo4, and then press an audio source button, such as CD.

*NOTE! In order to display AV on Beo4, you must first add it to the Beo4 list of functions. For further information, refer to the chapter 'Customise Beo4' on page 70.

Distribute sound and picture with BeoLink

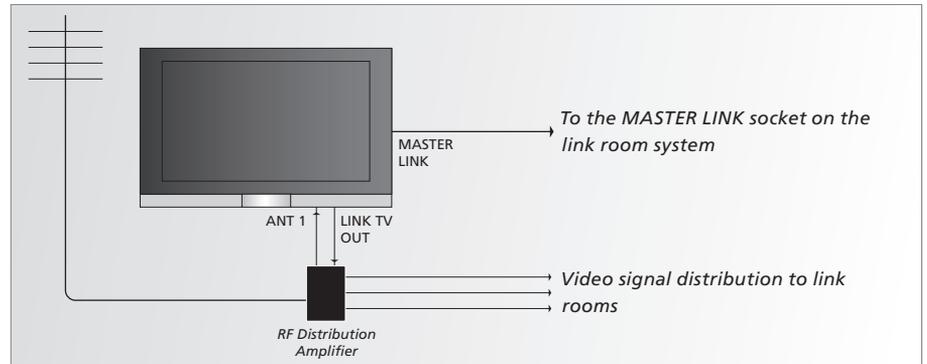
The BeoLink system makes it possible to distribute picture and/or sound to other rooms throughout the house.

For example, you can connect your television in the living room to another video system or set of speakers in another room, thereby making it possible to 'move' the picture or sound to other rooms.

If you have a BeoLink distribution system installed, you can either use your television in the main room, such as a living room, or in a link room, such as a study or bedroom.

Under certain circumstances, it may be necessary to enter modulator settings.

Link connections



The main room television must be connected to the link room system with a Master Link cable:

- > Connect the Master Link cable to the socket marked MASTER LINK on the side connection panel.
- > If you want to distribute video signals as well, connect an ordinary aerial cable to the socket marked LINK TV on the main connection panel. Then run the aerial cable to the RF Link Amplifier and the Master Link cable to the link room. Follow the instructions enclosed with the link room equipment.

If an audio system is already connected to the Master Link socket and you wish to connect more equipment, the Master Link cable must be split in two and joined with the cable from the link room using a special junction box. Contact your Bang & Olufsen retailer for assistance.

Digital signals (HDMI) cannot be distributed from a main room television to the link room system.

System modulator

If you have an audio setup, such as a BeoLink Active/Passive, and you choose to set up a non-linkable television in the same room, you must set the system modulator to ON. The factory setting is OFF, which must be used if you are using a linkable Bang & Olufsen television.

To switch on the system modulator ...

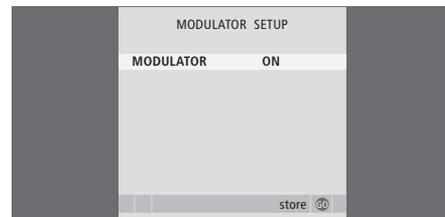
- > Press **TV** to switch on the television.
- > Press **MENU** to bring up the TV SETUP menu and press **▼** to highlight CHANNEL SETUP.
- > Press **GO** to bring up the CHANNEL SETUP menu, and press **▼** to highlight LINK CHANNEL.
- > Press **◀** twice, followed by **GO**. The MODULATOR SETUP menu appears.
- > Press **◀** or **▶** to reveal ON.
- > Press **GO** to store the setting, or ...
- > ... press **EXIT** to leave all menus without storing.

Link channel

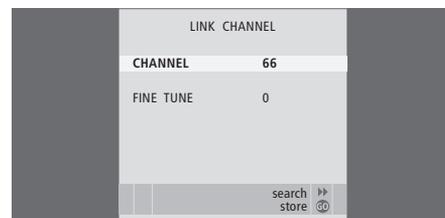
If, for example, a TV channel in your area is broadcasted on the same channel as the factory setting for the BeoLink system; channel 66, you must tune the system modulator to an unoccupied channel. When you change the link channel in the main room television, make sure that the link channel in the link room system corresponds to it.

To change the link channel ...

- > Press **TV** to switch on the television.
- > Press **MENU** to bring up the TV SETUP menu and press **▼** to highlight CHANNEL SETUP.
- > Press **GO** to bring up the CHANNEL SETUP menu and press **▼** to highlight LINK CHANNEL.
- > Press **GO** to bring up the LINK CHANNEL menu. CHANNEL is already highlighted.
- > Press **◀** or **▶** to find an unused channel.
- > Press **GO** to store the setting, or ...
- > ... press **EXIT** to leave all menus without storing.



The MODULATOR SETUP menu.



The LINK CHANNEL menu.

If you have BeoLink installed in your home and choose to place your television in a link room, you can operate all connected systems through the television and listen to the sound in the link room.

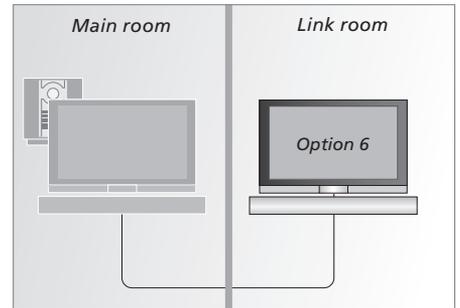
You must follow the procedure described below when you connect your television for use in a link room:

- 1 Connect the link room television to the mains.
- 2 Using the Beo4 remote control, program the link room television to Option 6*.
- 3 Disconnect the link room television from the mains.
- 4 Make the necessary connections.
- 5 Reconnect the link room television to the mains.

Option setting

For your entire system to function properly, it is essential that the television in the link room is set to the correct Option before you connect it to the system in the main room!

- > While holding down the ● button, press LIST.
- > Let go of both buttons.
- > Press LIST repeatedly to display OPTION? on Beo4 and press GO.
- > Press LIST repeatedly to display V.OPT on Beo4 and press 6*.



**If you connect the television for use in a link room where other link systems are already connected, such as loudspeakers, you must set the television to Option 5 instead.*

Link room operation

When you are in the link room, you can operate all connected systems with the Beo4 remote control.

Use sources only present in one of the rooms ...

Press the button for the source you wish to listen to

RADIO
CD
DTV

Operate the selected source as usual

Use a source placed in the main room – the source type is present in both rooms ...

Press LIST repeatedly until LINK* is shown in the Beo4 display

LIST
LINK

Press the button for the source you wish to listen to

DTV

Operate the selected source as usual

Use a source placed in the link room – the source type is present in both rooms ...

Press the button for the source you wish to listen to

DTV

Operate the selected source as usual

Listen to stereo sound in your link room ...

Usually sound distributed from a main room video source, such as a set-top box, to the link room is transmitted in mono. However, you can select stereo sound:

Press to switch on the television **TV**

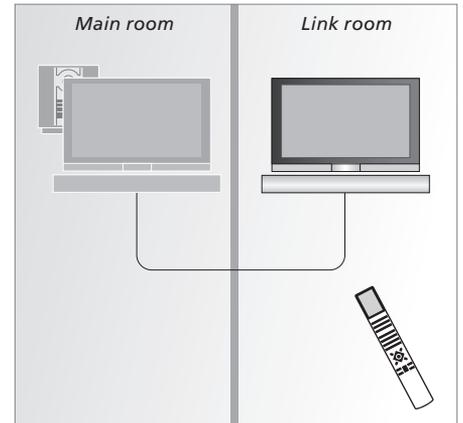
Press repeatedly until AV* is shown in the Beo4 display

LIST
AV

Press to activate a source connected to the main room television, such as a set-top box

DTV

While using this function, distribution of other main room sources to other link room systems is not possible.



*To display LINK on your Beo4 remote control, you must first add it to the Beo4 list of functions. Refer to the chapter 'Customise Beo4' on page 70.

Two televisions in the same room

If you have placed your television in a room where you already have a Bang & Olufsen television, and commands from Beo4 can be received by both televisions, you must change the option setting of the television. This prevents simultaneous activation of both televisions.

One remote control for both televisions

For your television to function properly, it is essential that it is set to the correct Option:

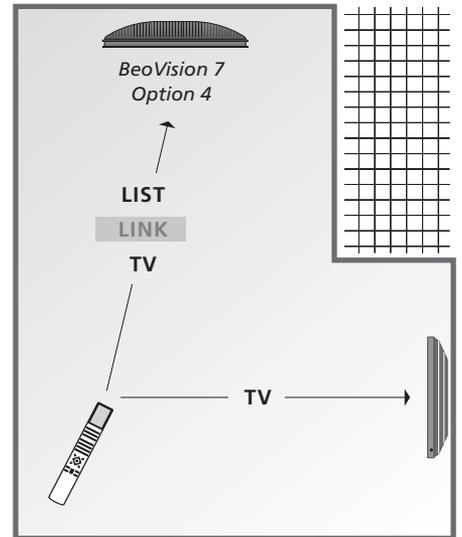
To set your television for Option 4 ...

- > While holding the **•** button on Beo4, press **LIST**.
- > Let go of both buttons.
- > Press **LIST** repeatedly to display **OPTION?** on Beo4 and press **GO**.
- > Press **LIST** repeatedly to display **V.OPT** on Beo4 and press **4**.

Operate your television in Option 4 ...

Normally, you can activate a source, such as TV, simply by pressing the relevant source button on Beo4. However, when you set your television to Option 4, you must do the following:

- > Press **LIST** repeatedly until **LINK*** is shown in the Beo4 display.
- > Press a source button, such as **TV**.



**In order to display LINK on Beo4, you must add it to the Beo4 list of functions. For further information, refer to the chapter 'Customise Beo4' on page 70.*

Customise Beo4

The Beo4 buttons give direct remote control of a large number of functions, and the Beo4 display gives you access to even more functions.

Whenever a source is displayed on Beo4 (TV, RADIO, etc.), you can press the LIST button and bring up extra functions in the display to help you operate that source, just as if you were calling up extra buttons. You can also switch on extra equipment connected to your television.

You can customise a new Beo4 to suit your television, and change the order in which these extra functions appear when you call them up.

Note that Beo4 contains a list of all of Bang & Olufsen's extra audio and video functions, but only those functions supported by the television work when you call them up in the Beo4 display.

Set up Beo4

The Beo4 is set up for use with the television from the factory. However, if you buy a new Beo4 you can set this up for your television also.

Hold down the standby button and press LIST to get access to the Beo4 setup function

•
LIST

Let go of both buttons. ADD? appears in the display

ADD?

Press repeatedly to display CONFIG? on Beo4

LIST
CONFIG?

Press to be able to select the type of configuration

GO

Press repeatedly to display VIDEO? on Beo4

LIST
VIDEO?

Press to get access to the video configuration

GO

Press repeatedly to display VIDEO 3 on Beo4

LIST
VIDEO 3

Press to store the configuration

GO

STORED appears, indicating that the configuration has been stored. You leave the Beo4 setup function automatically

STORED

Add an extra 'button'

When you add a new function to the Beo4 list, you can then bring up this new 'button' in the Beo4 display.

Hold down the standby button and press LIST to get access to the Beo4 setup function

•
LIST

Let go of both buttons. ADD? appears in the display

ADD?

Press to bring up the list of available 'buttons' to add from. The first 'button' appears in the display, it flashes on and off

GO

Press to move forwards or backwards in the list of all extra 'buttons'

▲
▼

Press to add and place the 'button' on its preset position or as the first 'button' in the list, or ...

GO

... press to insert the 'button' at a specific position in the list

1 - 9

ADDED appears, indicating that the 'button' has been added. You leave the Beo4 setup function automatically

ADDED

Move extra 'buttons'

You can rearrange the order in which the extra 'buttons' appear when you press LIST.

Hold down the standby button and press LIST to get access to the Beo4 setup function

•
LIST

Let go of both buttons. ADD? appears in the display

ADD?

Press repeatedly to display MOVE? on Beo4

LIST
MOVE?

Press to bring up the list of extra 'buttons'. The first 'button' appears in the display

GO

Press to move forwards or backwards in the list of extra 'buttons'

▲
▼

Press to move and place the displayed 'button' as the first in the list, or ...

GO

... press to move the 'button' to a specific position in the list

1 - 9

MOVED appears, indicating that the 'button' has been moved. You leave the Beo4 setup function automatically

MOVED

Remove an extra 'button'

You can remove any of the extra 'buttons' that are available when you press LIST.

Hold down the standby button and press LIST to get access to the Beo4 setup function

•
LIST

Let go of both buttons. ADD? appears in the display

ADD?

Press repeatedly to display REMOVE? on Beo4

LIST
REMOVE?

Press to bring up the list of extra 'buttons'. The first 'button' appears in the display

GO

Press to move forwards or backwards in the list of extra 'buttons'

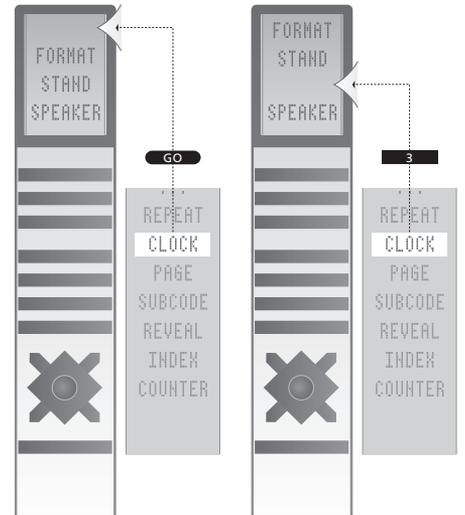
▲
▼

Press to remove the 'button' shown in the display

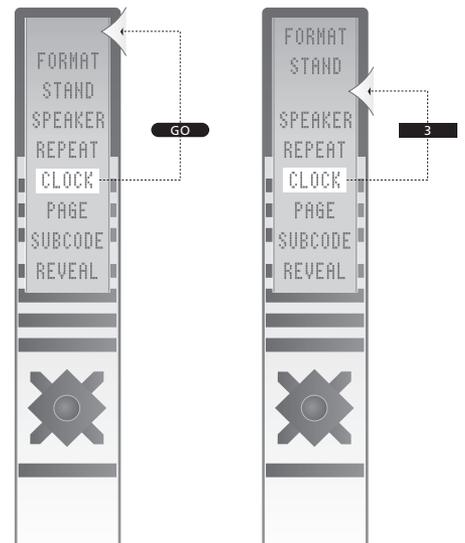
GO

REMOVED appears, indicating that the 'button' has been removed. You leave the Beo4 setup function automatically

REMOVED



Add an extra 'button' to Beo4, either to the top of the list or to a specific position.



Move extra 'buttons', either to the top of the list or to a specific position.

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