

Adaptive Sound Technology

Supplement

First-time setup of your television

Your system is equipped with Adaptive Sound Technology which allows you to enjoy an optimal sound experience with a multiple speaker setup even though your speakers are not placed correctly for your listening position. The Adaptive Sound Technology feature in the television uses all connected speakers to create the ultimate sound experience of perfectly placed speakers.

To enjoy the advantages of this setup several speakers and a Beo5 remote control are necessary. If you have only a few speakers or a Beo4 remote control, this setup is not recommended and you should choose the setup without Adaptive Sound Technology described in the chapters about first-time setup and loudspeaker setup in the Guide enclosed with your product.

The setup procedure 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. Remember that you need to set the speaker types and the distances in the SPEAKER SETUP menu.

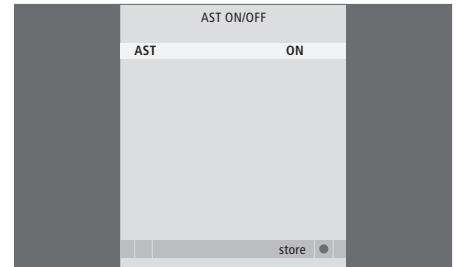
Overview of first-time setup

The first-time setup of your television has up to four main steps: registration of all connected equipment, tuning of channels, loudspeaker setup and sound adjustment.*

After the first couple of menus you are asked to switch Adaptive Sound Technology on or off. Continue with the procedure described here if you select ON. If you select OFF, follow the procedure described in the chapter about first-time setup in the Guide.

You can make and name your own presets for listening positions such as at the dining table or in your favourite armchair. For further information about listening presets, refer to page 6 in this supplement.

If you choose to switch on Adaptive Sound Technology function, you can still disable it in one or more of the listening presets you make. For further information about Adaptive Sound Technology, refer to page 4 in this supplement.



*NOTE! Tuning of channels is not part of first-time setup in all countries.

The sequence of menus in first-time setup:

MENU LANGUAGE* ... You can select the language for on-screen menus. The text on the screen changes as you move from language to language.

CONNECTIONS ... Select the type of equipment you have connected to each socket, the sockets used, the product name, and the source name. For further information about the CONNECTIONS menu, refer to the chapter about registering additional equipment in the Guide.

AUTO TUNING* ... When you have registered your connected equipment, a menu for channel tuning automatically appears on the screen. Press the **centre** button on Beo5 to start auto tuning. The television finds all available channels. For further information about tuning TV channels, refer to the chapter about retuning and adding channels in the Guide.

AST ON/OFF ... In this menu, you can choose between a speaker setup menu with or without Adaptive Sound Technology. The default setting is OFF. All settings described in this Supplement only apply if AST is set to ON. For further information about Adaptive Sound Technology, refer to the chapter '*Loudspeaker setup*' on page 4.

SPEAKER SETUP ... In this menu, you are led through a procedure in which the highlighted speaker makes a sound. You then register the speaker type in the menu. Enter the straight-line distances from two points, Points A and B to each speaker, to the left and right sides of the television screen and a projector screen, to a viewing position and the distance between the two points. For further information about the SPEAKER SETUP menu, refer to page 5 in the chapter '*Loudspeaker setup*'.

TV ... Select the speakers to be active when you watch television and determine the distance from your listening position to three of the activated speakers. You can enable Adaptive Sound Technology or set the speaker roles and levels.

CINEMA ... Select the speakers to be active for a connected projector and determine the distance from your listening position to three of the activated speakers. You can enable Adaptive Sound Technology or set the speaker roles and levels. This menu is only available if you have connected a projector.

SOUND ADJUSTMENT ... Adjust sound characteristics such as volume, bass, treble, and loudness. In addition, you can select 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 also select which LISTENING PRESET should be activated when you switch on an audio source. If you select the option **MANUAL**, the preset used when switching on the audio source continues to be active and if all your sources are switched off, the preset used before switching on the audio source is automatically activated. If you select one of your LISTENING PRESETS, the selected preset is activated every time you switch on an audio source. You can still select a different speaker combination any time you wish. For further information about the SOUND ADJUSTMENT menu, refer to the chapter about adjusting picture and sound settings in the Guide.

SOUND SETUP ... Enter the LISTENING PRESETS menu and select a PRESET field. Then select the speakers to be active for different listening positions, such as at the dining table or in a favourite armchair, and determine the distance from your listening position to three of the activated speakers. You can enable or disable the Adaptive Sound Technology and either rotate the selected speaker setup or set the speaker roles and level. For further information about speakers for customised listening presets, refer to '*Listening presets*' on page 6.

STAND ADJUSTMENT ... Set the maximum angle for turn and tilt for the television. For further information about the STAND ADJUSTMENT menu, refer to the chapter about calibrating the motorised movement in the Guide.

STAND POSITIONS ... Set your preferred preset positions for the television. For further information about the STAND POSITIONS menu, refer to the chapter about setting positions for the television to turn to in the Guide.

For information about where and how to connect extra equipment, refer to the chapter about connection panels in the Guide.

Loudspeaker setup

Adaptive Sound Technology makes it possible to enjoy optimal sound experience with a multiple speaker setup even though your speakers are not placed correctly for your listening position.*

The distance from your listening position to any speaker in a listening preset should not exceed 10 metres.

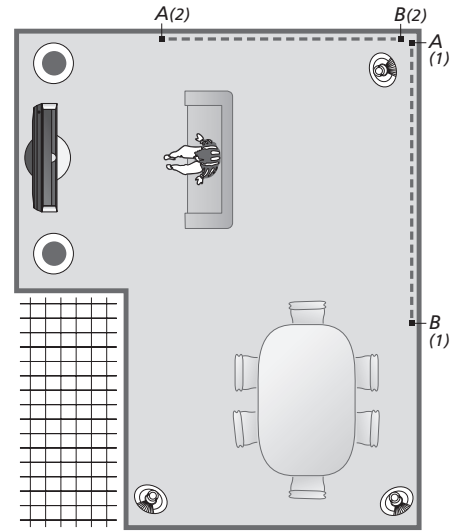
In this part of the setup you set up speakers for your television and an optional projector.

Points A and B

For Adaptive Sound Technology to figure out the exact position of each speaker, you will need to decide on two fixed points, Point A and Point B, before you can enter the settings of the speaker setup menu. These points could, for example, be on a wall.

Guidelines for fixing Point A and Point B:

- 1 Fix the points in the edge of a room, so all speakers are placed on the same side of an imaginary line between Point A and Point B.
- 2 Fix the points far apart from each other, at least two metres.
- 3 From both Point A and Point B you should be able to see all speakers in the setup. However, it is acceptable if a piece of furniture is in the way.



Examples of two possibilities for points A and B with the imaginary line from one point to the other. You can preset speaker combinations for several listening positions such as at the sofa when you watch television, at the dining table or when you sit in an armchair reading.

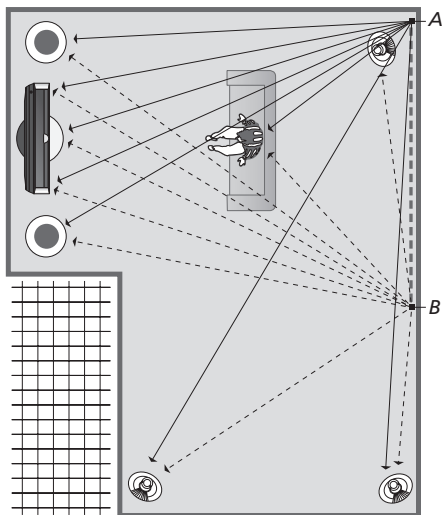
*NOTE! To use the setup menu without Adaptive Sound Technology, bring up the TV SETUP menu >OPTIONS >SOUND >AST ON/OFF then select OFF and store.

Set up the speakers

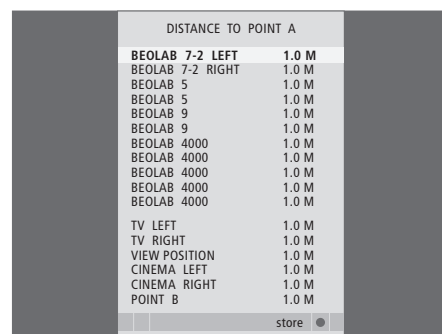
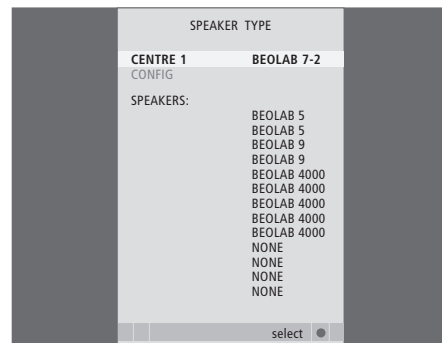
Set the speaker types and the distances from Points A and B to each speaker, to the left and right side of the television screen and a projector screen, to a viewing position and the distance between the two points.

Set speaker type and distance ...

- > Bring up the TV SETUP menu and select OPTIONS.
- > Bring up the SOUND menu and select SPEAKER SETUP.
- > Select the speaker types.
- > Press the **centre** button on your remote control to store the settings and bring up the DISTANCE TO POINT A menu.
- > Enter the required horizontal distances in metres. The distance to a stereo speaker should be measured to the left and right edges of the speaker.
- > Press the **centre** button on your remote control to store the settings and bring up the DISTANCE TO POINT B menu.
- > Enter the horizontal distances.
- > Press the **centre** button on your remote control to store the setting. The television can now calculate your speaker setup.



Select the viewing position from where you watch television.



When you set the speaker type, the speaker name highlighted in the menu should match the speaker producing a sound. In the menu that follows, you are asked to enter the horizontal distance in metres from Point A to each of your speakers, to the left and right edge of your television screen and a connected projector screen, to a viewing position and to Point B.

Listening presets

Select the speakers to be activated in TV mode and, if you have connected a projector, in Cinema mode. You can also make up to five customised listening presets, such as at the dining table or in a favourite armchair. Select three to seven* speakers and up to two subwoofers to be activated for a preset and determine the distance from your listening position to three of the activated speakers.

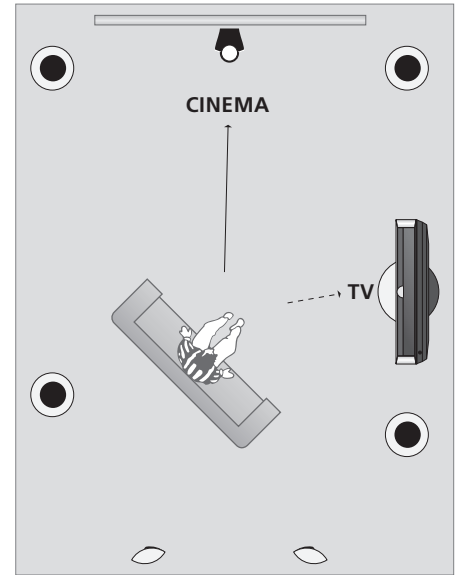
For each customised listening preset it is also possible to rotate the perceived sound 360 degrees around the listening position. The default rotation is 0 degrees which is the direction from your listening position to the television.

If your speakers are placed correctly for your listening positions, it is recommended that you disable Adaptive Sound Technology and set the speaker roles, distances and levels. If you activate fewer than three speakers, you must set the speaker roles, distances and levels. For further information about speaker roles, distances and levels, refer to the chapters in the Guide about assigning roles to speakers, setting the speaker distance, and calibrating the sound level.

**A stereo speaker such as a BeoLab 7-1 or 7-2 counts as two speakers if fewer than six speakers are activated.*

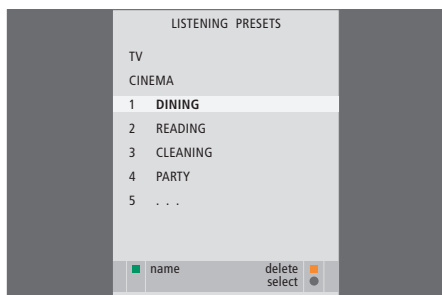
To set speaker presets ...

- > Bring up the TV SETUP menu and select **OPTIONS**.
- > Bring up the **SOUND** menu and select **LISTENING PRESETS**.
- > Select TV, CINEMA or a custom preset field.
- > Enable or disable the Adaptive Sound Technology.
- > Activate the preferred speakers. Three to seven speakers as well as up to two subwoofers can be activated.
- > Check that the Adaptive Sound Technology is enabled or disabled as you desire.
- > Store to bring up the next menu. If you have selected OFF to disable the Adaptive Sound Technology, refer to the chapters in the Guide about how to assign roles to speakers, set the speaker distances and calibrate the sound level.
- > Enter the horizontal distance in metres between your listening position and each speaker making a sound.
- > If you are setting a customised preset and ADAPTIVE SOUND TECHNOLOGY is enabled, highlight **ROTATION** and select how much the sound stage should be rotated. A sound will be produced from the setup if a source is playing and you rotate until the sound is experienced from the desired direction.
- > Store and return to the **LISTENING PRESETS** menu. During first-time setup, press the **green** button to continue the first-time setup procedure when you have created the desired presets.



Example of a listening position for watching television and Home cinema. You select which speakers should be active for each situation.

NOTE! If you have changed the rotation of a preset during daily use, you can easily create a new preset with these settings. Enter the **LISTENING PRESETS** menu, select an empty **PRESET** field and press the **centre** button for each menu, as the current settings will automatically be applied to each of these menus.



You can make the television switch to a customised listening preset automatically when an audio source is selected.

Name a customised preset

You can name your customised listening presets in the television menu yourself. Your retailer can help you name the customised listening presets in the Beo5 display.

To name a customised preset ...

- > Bring up the TV SETUP menu and select OPTIONS.
- > Bring up the SOUND menu and select LISTENING PRESETS.
- > Highlight a desired customised listening preset and press the **green** button to be able to name the preset.
- > Enter a preferred name and store it by pressing the **centre** button on your remote control.

Delete a customised preset

You can delete any customised listening preset you do not want.

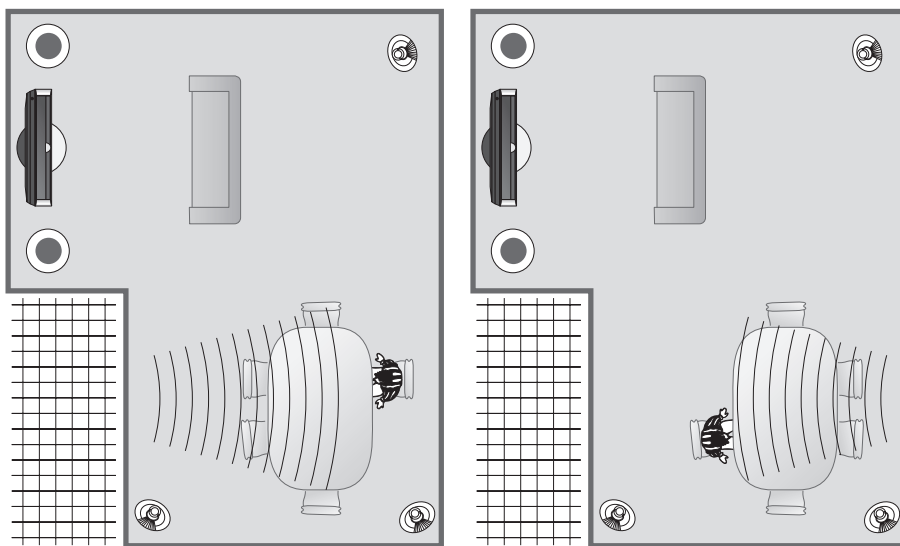
To delete a customised preset ...

- > Bring up the TV SETUP menu and select OPTIONS.
- > Bring up the SOUND menu and select LISTENING PRESETS.
- > Highlight a desired customised listening preset and press the **yellow** button to be able to delete the preset – the preset is then dimmed.
- > Press the **yellow** button again to finally delete the preset.

To optimise the sound experience for your listening position, you can select a customised listening preset and even rotate the sound to match the direction you are facing.

When you watch television or listen to music, you can select your own listening preset to optimise the sound for your listening position. You can also rotate the preset's sound so that the sound is experienced as coming from directly in front of you.

If the television has been switched off, the listening preset will change to the TV preset when the television is switched on again. If a customised listening preset has been set as AUDIO PRESET in the SOUND ADJUSTMENT menu, the sound setting will switch to this preset when you switch to an audio source.



To select a customised listening preset ...

- > Press Δ to bring up the *Scene* display on Beo5, then press **Presets** to bring up the *Presets* display on Beo5.
- > Press the name or number of the desired preset.
- > Press Δ to leave the function.

To rotate a customised listening preset ...

- > Press Δ to bring up the *Scene* display on Beo5, then press **Presets** to bring up the *Presets* display on Beo5.
- > Press **< Rotate** or **Rotate >** to rotate the current speaker combination.
- > Press Δ to leave the function.

If you want the sound to be perceived as though it comes from a direction other than the activated speakers' actual positions, rotate the sound to match the direction you are facing.