

The Bose® Companion™ Satellite Surround Sound System

Owner's Guide

BOSE



Warning

To reduce the risk of fire or electric shock, do not expose the system to rain or moisture.



CAUTION:

For units with a polarized power plug, to prevent electric shock, match wide blade of plug to wide slot, insert fully.

These CAUTION marks are located on the back panel of your Companion™ controller and the bottom panel of your bass module:



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated dangerous voltage within the system enclosure that may be of sufficient magnitude to constitute a risk of electric shock.



The exclamation point within an equilateral triangle, as marked on the system, is intended to alert the user to the presence of important operating and maintenance instructions in this owner's guide.

Class B emissions limits

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

Batteries

Please dispose of used batteries properly, following any local regulations. Do not incinerate.

Additional safety information

See the additional instructions on the *Important Safety Information* page enclosed with this owner's guide.

Please read this owner's guide

Please take the time to follow this owner's guide carefully. It will help you set up and operate your system properly, and enjoy all of its advanced features. Save your owner's guide for future reference.

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For your records

Serial numbers are located on the back panel of the controller and the bottom panel of the bass module.

Controller serial number: _____

Bass module serial number: _____

Dealer name: _____

Dealer phone: _____ Purchase date: _____

We suggest you keep your sales slip and warranty card together with this owner's guide.


Before you begin

Thank you for purchasing the Bose® Companion™ satellite surround sound system. The CD-quality digital sound of this innovative system complements the high-resolution digital picture from your satellite system and enhances the performance quality of digital music channels.

Your Companion satellite surround sound system includes:

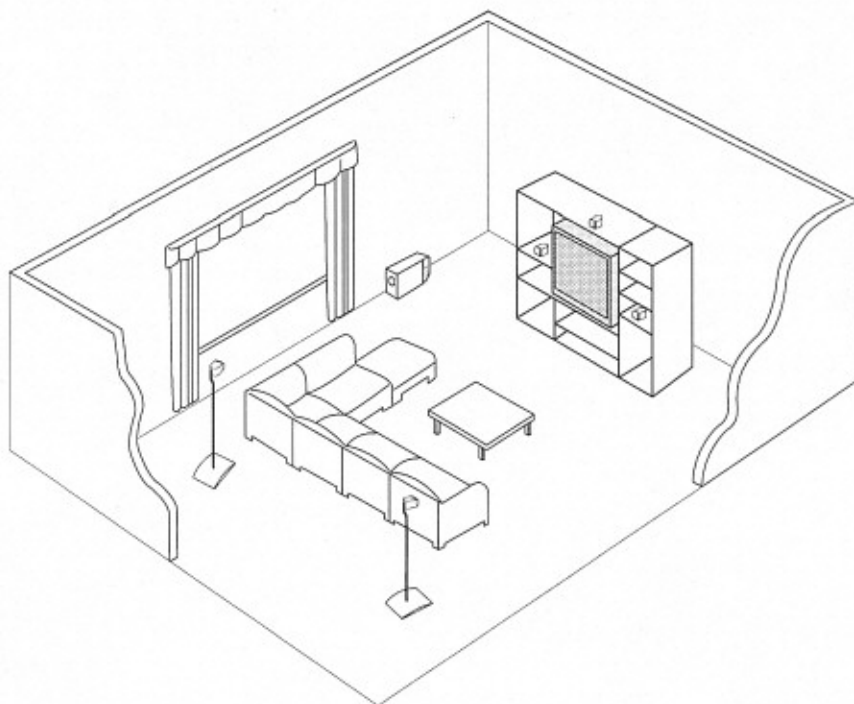
- A Companion CS-6 controller with inputs and outputs for video and audio sources
- Powered Acoustimass® speakers with a hide-away bass module
- A remote control sensor
- An easy-to-use remote control

Bose VideoStage® decoder technology enables the Companion satellite surround sound system to reproduce the realism of movie sound especially for a home environment. When a movie soundtrack or digital audio is produced in a surround sound format, specially encoded sound is sent to any or all of the available speakers. Dialogue is usually sent to the front speakers. Sounds from the left or right side of the picture are sent to the left or right front speakers. Ambient sounds or special effects may be sent to the surround (rear) speakers. Bose VideoStage circuitry automatically directs the sound to the correct speakers.

To select surround-encoded material, look for the word "surround" preceding a TV broadcast or any of the terms Surround, Dolby Surround, and the double-D symbol  DOLBY SURROUND on tapes and discs.

When sound is recorded in stereo, but not surround-encoded, VideoStage decoder technology directs it to the most appropriate speakers based on the signals received. When viewing older movies or listening to other monaural programs on your Companion satellite surround sound system, VideoStage directs sound so it appears to come from the center of the TV screen.

You can listen to any program material in SURROUND (5-speaker) mode, whether the program is surround-encoded, stereo, or monaural. You will not hear sound from all five speakers all of the time. Even with surround-encoded material there are times when no sounds are directed to the surround speakers. You can select the speaker mode that sounds best to you for each particular program.



Unpacking the carton

Carefully unpack your system. Save all packing materials for possible future use. The original packing materials provide the safest way to transport your Companion™ satellite surround sound system. If any part of the product appears damaged, do not attempt to use the system. Notify Bose® or your authorized Bose dealer immediately.

Check to be sure your Companion satellite surround sound system contains the parts identified in Figure 1.

Note: Find the serial numbers on the bottom panel of the bass module and the back panel of the controller. Then write them in the spaces provided on page 3.

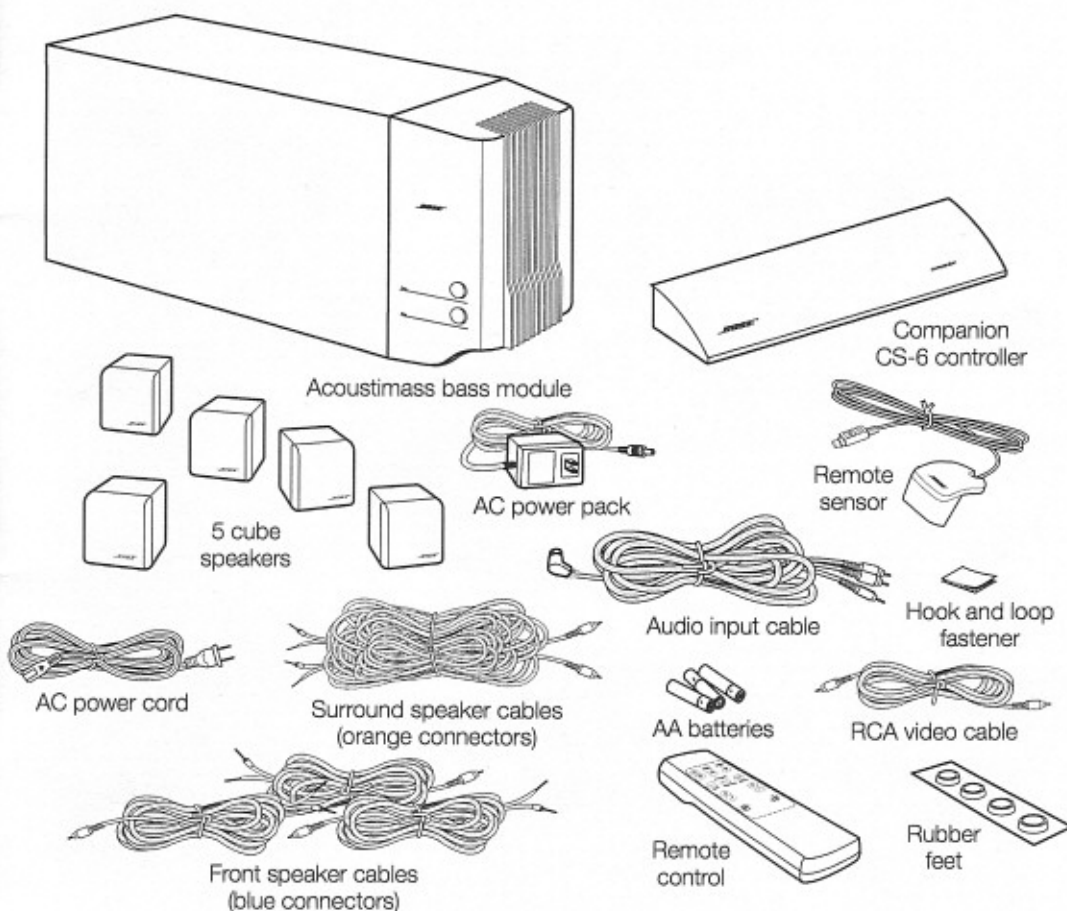


Figure 1

What comes with your Companion satellite surround sound system:

- Companion CS-6 controller
- AC power (mains) pack
- Remote sensor
- Remote control
- 3 AA batteries
- Acoustimass® bass module
- 5 cube speakers
- AC power (mains) cord
- Audio input cable
- 5 speaker cables (2 surround and 3 front)
- RCA video cable
- 4 self-adhesive rubber feet (for the bass module)
- Hook and loop fastener (for remote sensor)

Selecting the locations for your Companion™ satellite surround sound system

When you place your speakers according to the guidelines below, your Companion satellite surround sound system provides the audio atmosphere of a home theater. You may experiment with the placement and orientation of the cubes to produce the sound most pleasing to you. For the best surround effect, adjust the surround speakers so you cannot pinpoint where the sound comes from. It is preferable not to aim the cubes directly at the listener. For more discussion of speaker placement and room acoustics, see "Fine-tuning your system" on page 19.

Speaker locations

Follow these guidelines to select locations that provide the maximum home theater effect from your system (see Figures 2 and 3).

Left and right front speakers

The sound from the left and right front speakers should seem to appear at the edge of the picture, so that the acoustic image is close to the size of the visual image (see Figure 2). The front speaker cables allow placement up to 20 feet (6 m) from the bass module.

1. Place them in line with the horizontal center of the TV screen.
2. Place them up to 3 feet (1 m) from the edge of the TV screen.

We recommend a maximum distance of 3 feet (1 m) so that the sound does not become too separated from the picture. You may want to vary this distance based on room conditions and personal preference.

3. Direct each cube forward or toward the wall or in a different direction to create reflected sound. (See the illustration of reflected sound patterns in Figure 3.)

Note: The cube speakers are magnetically shielded so you can place them close to the TV without affecting picture quality.

Center speaker

The sound from the center speaker should appear to come directly from the center of the picture (see Figure 2). The center speaker cable allows placement up to 20 feet (6 m) from the bass module.

1. Place the speaker in line with the vertical center of the screen, above or below (whichever is closer to the screen), or the closest convenient location.
2. Place the speaker in line with the front of the screen (not pushed to the back of the TV).
3. Direct the cube forward.

Note: If you put the speakers in a bookcase unit, be sure to place each one at the front edge of the shelf. Placing speakers in an enclosed space can change the tonal quality of the sound. This effect is minimized if the shelves are filled with books.

CAUTION:

Choose a stable and level surface for your speakers. Vibration can cause the speakers to move, particularly on smooth surfaces like marble, glass, or highly polished wood. For additional stability, you can add rubber feet to your speakers. You may obtain rubber feet (part no. 178321), free of charge, from Bose®. Contact Bose customer service (see listings on the inside back cover).

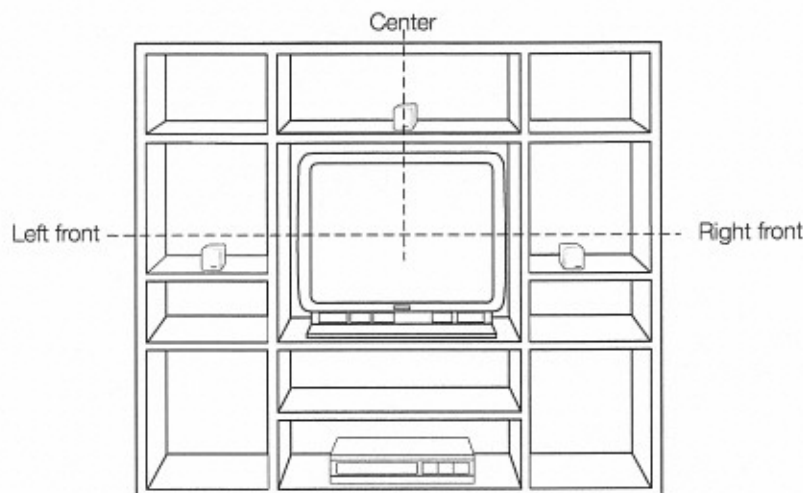


Figure 2

Recommended front speaker locations

Surround speakers

The surround (rear) speakers create an area of sound around the listener. Place them in the back half of your room. Direct the cubes so that you do not pinpoint the exact location of the sound source (see Figure 3). Each surround cable is 50 feet (15 m) long.

1. Place the speakers at the listeners' ear height or higher, if possible.
2. Direct the cubes to reflect sound off one or more surfaces. The longer the path from the speaker to your ear, the better.
3. Do not direct the sound straight at the listener, if possible.

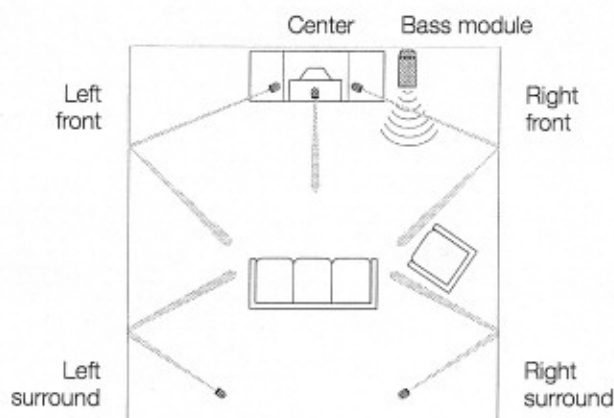


Figure 3

Speaker placement example

Bass module location

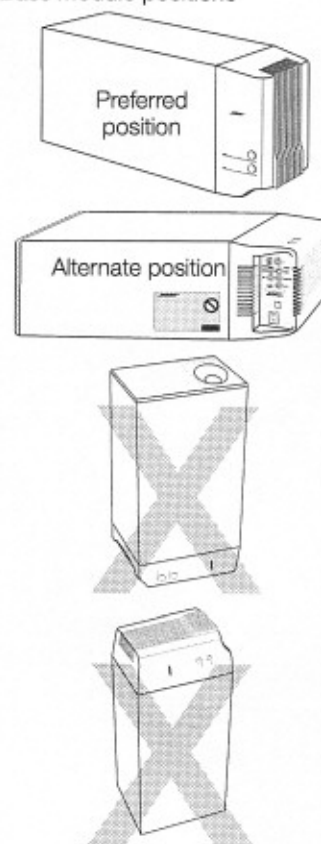
Follow these guidelines to select a location for the bass module.

Note: To avoid interference with the TV picture, place the bass module at least 3 feet (1 m) from the TV.

1. Place the bass module along the same wall as the TV, or close to the same end of the room as the front speakers (see Figure 3).
2. Select a convenient location – under a table, behind a sofa. Do not allow furniture or drapes to block the ventilation openings of the bass module.
3. Place the bass module within reach of the audio input cable, speaker cables, and an electric outlet.
4. Select a position for the bass module (see Figure 4). For proper ventilation, place it on the long edge, with the connectors facing the floor. An alternate position is on its largest side, with the bass and treble controls facing up. Do not place the bass module on either end, as shown by the last two views in Figure 4.
5. Once you have selected a position for the bass module, place the four self-adhesive rubber feet near the corners of the bottom surface. The rubber feet provide increased stability and protection from scratches.
6. Aim the port (the round opening) into the room or along the wall to avoid blocking the port or creating too much bass.
7. For best bass performance, do not place the port at equal distances from any two walls or from a wall and the ceiling.

Figure 4

Bass module positions



Controller location

Select a location for the controller, either in view or hidden away.

1. Place the controller close enough to the sound sources (TV, VCR, etc.) to allow for cable length. If you need additional audio and/or video cables to connect all of your components, see your dealer or installer.
2. Place the controller within 30 feet (9 m) of the bass module (the length of the audio input cable).

Remote sensor location

Place the remote sensor in a location which is convenient for aiming the remote signal, usually above or below your satellite receiver (see Figure 6). Position the black housing of the sensor light in front of the receiver. Slip the cable housing and cable under or over the receiver. Do not block the front of the sensor – it receives remote control signals.

CAUTION:

Do not cover the ventilation openings of the bass module. The slots on the end provide ventilation for the built-in electronic circuitry, and should not be blocked.

Connecting the cube speakers to the bass module

Each speaker cable contains two wires. The wire marked with a red collar is positive (+) and the plain one is negative (-). These wires match the positive (red) and negative (black) terminals on the back of each speaker. To lengthen the cable, use standard RCA extension cables or splice in 18-gauge or thicker cord (connecting + to + and - to -). To purchase cables, see your dealer, electronics store, or call Bose® customer service.

Note: The surround cables are joined together for your convenience, providing an easy-to-use cable for connecting the surround speakers. To run the cables in different directions from the bass module, simply pull apart the cables as needed.

1. Match the correct cable to the corresponding speaker location.
 - Front speaker cables have blue connectors at one end, with L, R, and C molded into the connectors. The red collars on the + wire are labeled LEFT, RIGHT, and CENTER.
 - Surround speaker cables have orange connectors at one end, with L and R molded into the connectors. The red collars on the + wire are labeled LEFT and RIGHT.
2. Connect the wire end of one speaker cable to the terminals on the rear of the matching cube speaker.
 - a. Push each terminal tab down, then insert the end of the appropriate wire into the exposed hole. Release the tab to secure the wire. Connect each wire to its corresponding terminal positive to positive (+ to +) and negative to negative (- to -).
 - b. Repeat this step for each of the five cube speakers. See Figure 5.
3. Connect each cable to the corresponding jack on the bass module.
 - a. Plug the blue connectors into the matching FRONT RIGHT, CENTER, and LEFT jacks.
 - b. Plug the orange connectors into the matching SURROUND RIGHT and LEFT jacks.

Connecting the bass module to the controller

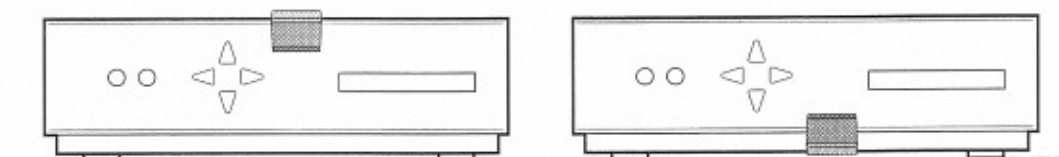
Connect the bass module to the controller with the audio input cable (see Figure 7).

1. Insert the three connectors at one end of the audio input cable into the jacks on the rear panel of the controller:
 - Black connector into the BASS MODULE CONTROL jack
 - Red connector into the R (right) BASS MODULE OUTPUT jack
 - White connector into the L (left) BASS MODULE OUTPUT jack

Be sure the connectors are fully inserted into each of the jacks.
2. Insert the single right-angle multi-pin connector on the other end of the audio input cable into the AUDIO INPUT jack on the bass module. Align the connector at the angle shown in Figure 7.

Connecting the remote sensor to the controller

Connect the remote sensor cable to the REMOTE SENSOR INPUT jack on the back panel of the controller. To align the connector with the jack, keep the arrow on the connector on the top. Use the supplied piece of hook and loop fastener to secure the remote sensor in its suggested location above or below the satellite receiver (see Figure 6).

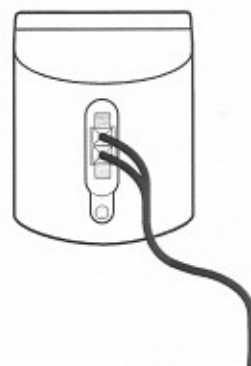


CAUTION:

Make sure all components are unplugged from the power outlet before you begin hooking up the system.

Figure 5

Speaker cable connections to the cube speaker

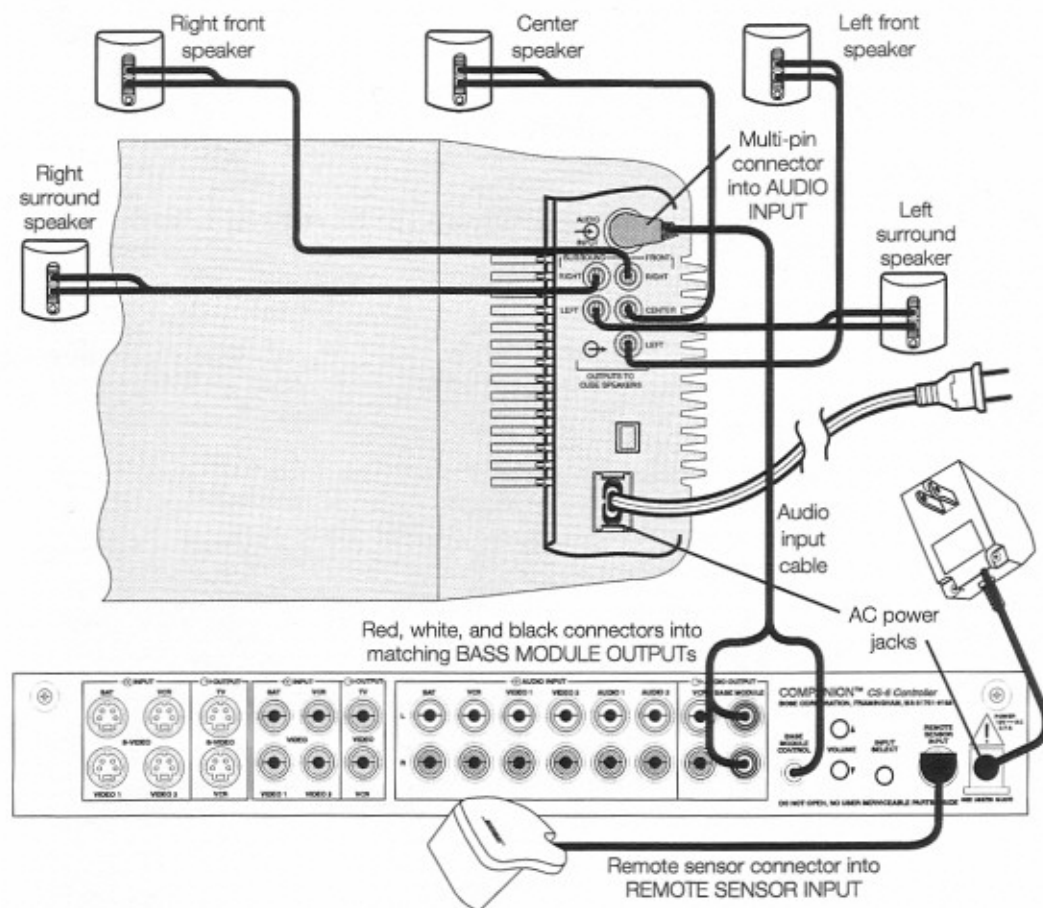


CAUTION:

Make sure no strands of wire from any terminal touch any other terminal. Bridged wires create short circuits that affect proper operation of your system.

Figure 6

Placement of the remote sensor

**Figure 7**

Speaker connections

Connecting the bass module power cord

Plug the small end of the power cord into the bass module AC (mains) power jack. Make sure that the power cord reaches an AC (mains) outlet.

Note: Do **not** plug the AC power cord into a power outlet until all component connections are complete.

Connecting the controller power pack

The Companion™ controller comes with a 120V AC (mains) power pack.

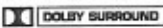
Firmly insert the small connector on the end of the power pack cable into the AC POWER jack on the back of the controller. Make sure that the power pack reaches an AC (mains) outlet.

Note: Do **not** plug the AC power pack into a power outlet until all component connections are complete.

Connecting your components to the Companion™ satellite surround sound system

There are many variations of equipment in a home theater. A basic home theater system might include a satellite decoder system, a stereo or mono TV, and stereo VCR, with the Companion system. Your home theater can include many other combinations of equipment, including cable TV, laserdisc players, CDI players, additional VCRs, CD and tape players, and tuners. Your satellite system should be set up before connecting your Companion system.

Note: A mono TV only serves as a display for the video. It is not a source for stereo or surround-encoded sound.

In order for the Companion satellite surround sound system to provide home theater effects, the program material must be in stereo or surround-encoded, and the device playing the material must be stereo. Look for the word "surround" preceding the TV broadcast, or any of the terms Surround, Dolby Surround, and the double-D symbol  on tapes and discs. To hear stereo or surround sound from encoded video tapes, you must have a stereo (HiFi) VCR. While not all VCRs are stereo devices, all CD and CDI players and nearly all laserdisc players are stereo.

Note: Line level outputs from most VCRs or laserdisc players are fixed. If your VCR, laserdisc player, or other video sound source has fixed and variable outputs, use the fixed outputs.

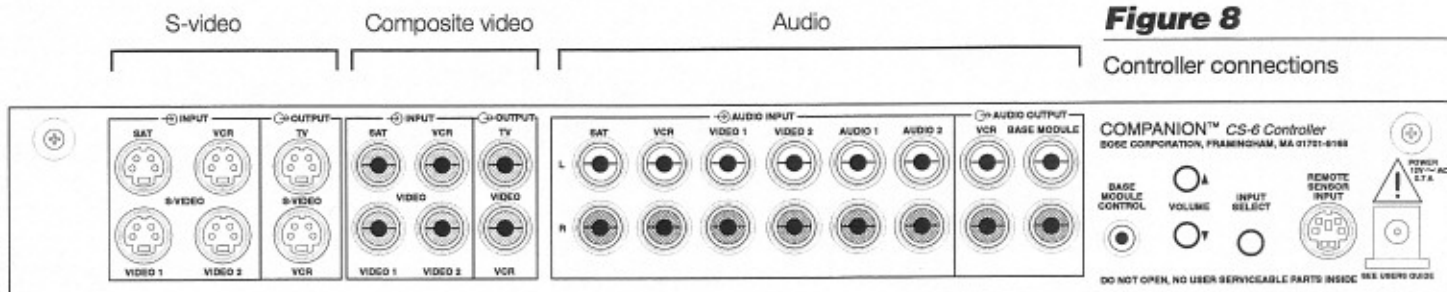
Setting up the controller

The Companion controller has four audio-for-video inputs and two audio-only inputs (see Figure 8).

Note: Cables may be supplied with your components. If needed, video and audio cables are available at many electronics stores, or call Bose®. Most RCA phono connector audio cables are color coded. Match red connectors to right (R) jacks and black or white connectors to left (L) jacks.

The Companion controller is designed to be your switching center. If you connect a variety of components to the controller, you can then select the source using either the Companion or satellite system remote control.

You may want to plan your connections with a diagram to be sure that you are using a setup which allows you to use the components in the way you prefer. Consider how the inputs are set up to allow recording from one source while watching another and how to provide the appropriate inputs to operate the Picture-in-Picture TV function.



(1) Connecting devices with RF output and/or input

If you have a TV which only accepts RF input, connect your VCR RF connection to your TV. Connect the Companion™ controller VCR OUTPUT jack to your VCR. Set both the TV and VCR to either channel 3 or 4, and the VCR to "TV" mode to watch a signal that passes through the VCR.

If you have a cable box or other device with RF output, you need to connect this to your VCR or other component that changes the RF signal to base band signal before connecting to the controller.

Note: Unless it is only a pass-through signal, most components do not reassemble stereo or surround-encoded audio when it comes in from an RF connection and is sent out through an RF connection.

See Figure 9 for a setup using RF connections. In this example:

- To watch satellite broadcasts, set SAT/TV on the satellite receiver to SAT, set VCR/TV on the VCR to TV, and set the TV to channel 3 or 4.
- To listen to the satellite broadcast in stereo or surround sound, select SAT on the Companion system.
- To record the satellite broadcast, select SAT on the Companion system and select the LINE or AUX input on the VCR. Then set your VCR to record.
- To watch cable TV, set SAT/TV on the satellite receiver to TV, set VCR/TV on the VCR to TV, and set the TV to channel 3 or 4.
- To listen to cable TV in stereo or surround sound, set SAT/TV on the satellite receiver to TV, set the VCR to channel 3 or 4, and select VCR on the Companion system.
- To record cable TV, select the RF input on the VCR. Select TV on the satellite receiver. Then set your VCR to record.

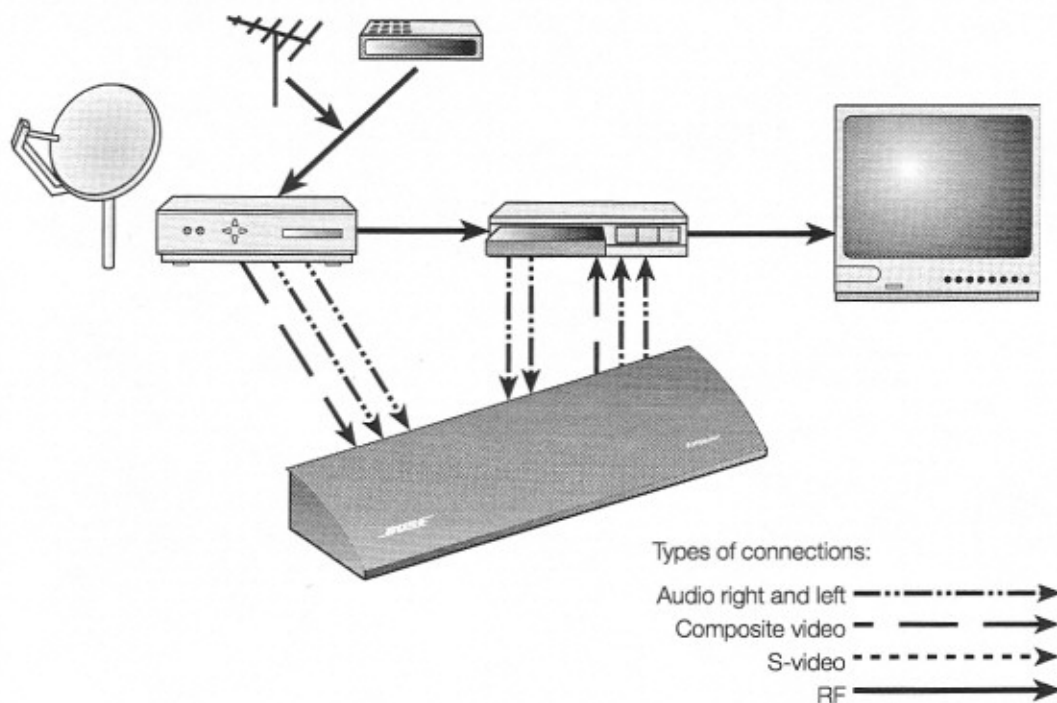


Figure 9

Sample configuration using RF connections

(2) Connecting devices with S-video or composite video inputs and outputs

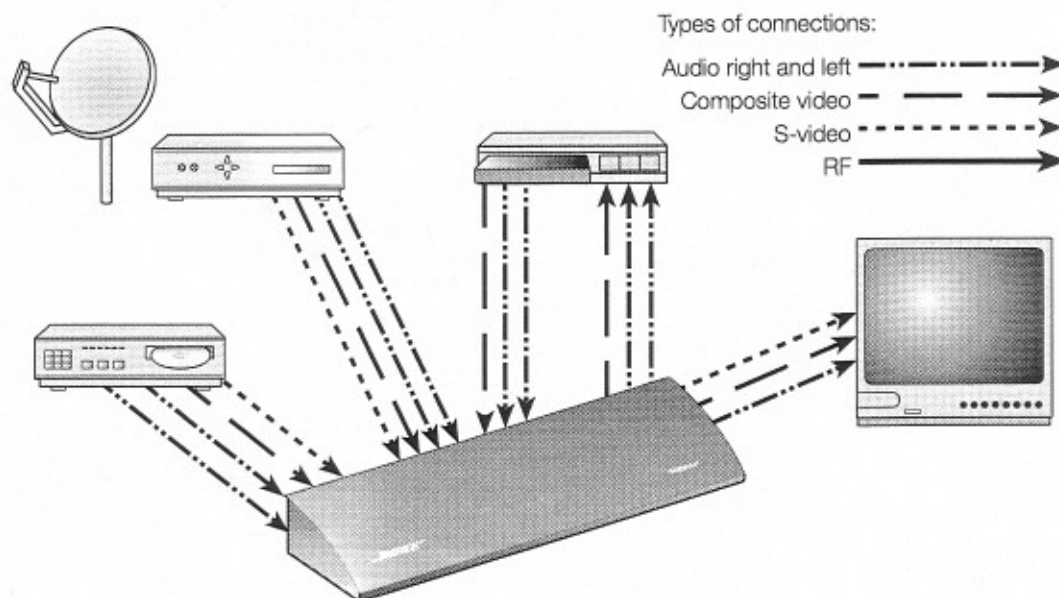
For components with S-video and/or composite video outputs, use the appropriate cables to connect them to your Companion™ controller:

- If your TV/monitor or VCR has composite video (yellow RCA/phono plug connections) inputs only, use only the composite video connections on the controller.
- If your TV/monitor or VCR has both S-video and composite inputs, connect both S-video and composite video to your controller to allow more choices when operating the system.

Note: S-video and composite video are parallel, independent connections. For example, if an S-video signal comes into the controller it must go out as S-video.

Some TVs automatically select S-video input, if it is present. If your VCR has composite video connections only, an autoswitch TV selects the composite input when the VCR is the source. If your TV does not automatically select the video source, connect composite video to TV input 1 and S-video to TV input 2 so you can select which signal to receive.

See Figure 10 for an example of a setup using S-video connections.



(3) Connecting your components

- Connect your satellite system receiver video output to the controller S-video and/or composite video SAT INPUT. Connect the SAT audio output to the controller SAT AUDIO left (L) and right (R) INPUTs.
- Connect your primary VCR to the controller S-video and/or composite video VCR INPUT(s) and the controller VCR AUDIO left (L) and right (R) INPUTs. Do not connect sources other than your VCR to the VCR connections.
- Connect the VCR OUTPUT L and R to your VCR audio L and R inputs. Connect VCR OUTPUT to the VCR video input. When VCR is the source selected, you cannot record from the audio or video VCR outputs.

Note: When you select VCR on the Companion system, video and audio output from the controller to the VCR stays at the last source selected that was not VCR. Therefore, while recording on the VCR, selecting VCR does not switch from the source you are recording.

- Connect other video sources (laserdisc player, second VCR, etc.) to the controller S-video and/or composite video VIDEO 1 or 2 INPUT(s) and the VIDEO 1 or 2 AUDIO left (L) and right (R) INPUTs.

Note: The Companion system is compatible with NTSC and most world video formats. However, you may need adapters to connect these components to the system.

- e. Connect audio sources to the AUDIO 1 or 2 INPUTs.
- f. To record on an external tape deck (analog audio cassette, analog open reel, digital audio tape, Digital Compact Cassette, or MiniDisc), use Y-adapters to connect the inputs (REC) from the tape deck to the controller BASS MODULE AUDIO OUTPUT jacks. This uses the fixed audio for both connection to the speakers and for recording.
- g. To connect a turntable, you need a phono preamplifier (with RIAA equalization). Consult your dealer for the appropriate model.

CAUTION:

While recording on an audio recording device, do **not** select AUDIO 1 or AUDIO 2 (the source to which the tape recorder is connected). Selecting the audio source that is recording causes unwanted feedback.

Figure 11

Sample configuration using multiple connection types and providing the option to watch one source and tape another

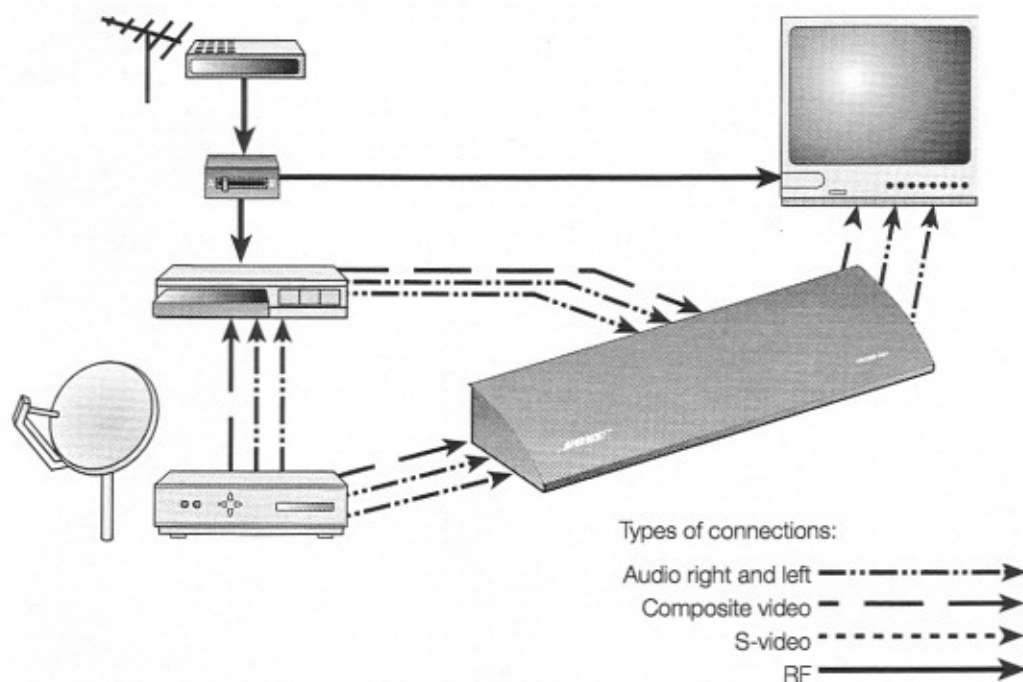
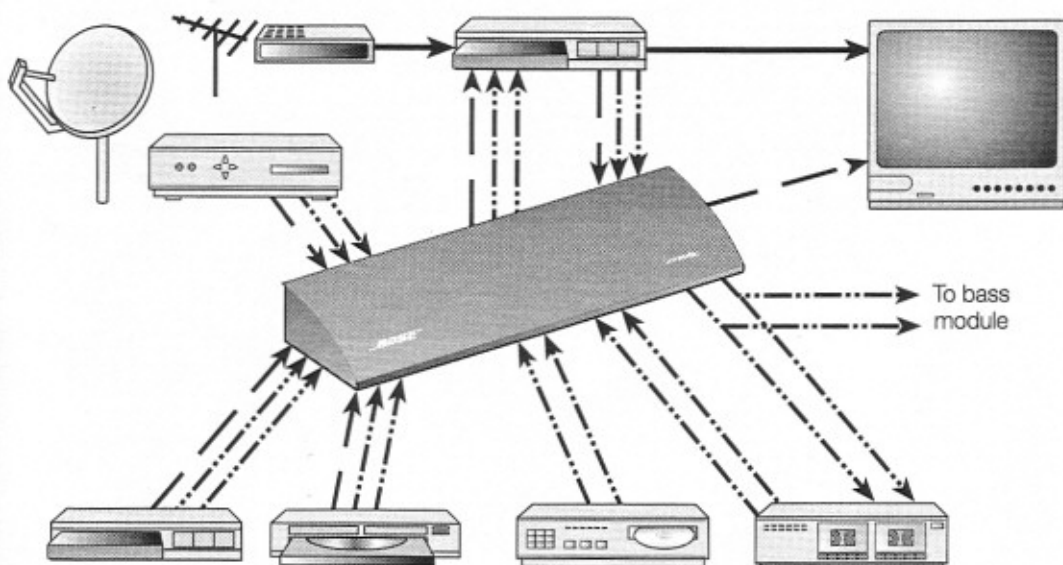


Figure 12

Sample configuration using the controller as the primary switching center and Y-adapters for connecting a tape recorder



Turn on the system

1. Plug the bass module power cord into an AC (mains) outlet. Then plug in the controller power pack.

Note: Your speakers will not operate unless you complete all cable and power connections before turning on the system.

Setting up the remote control

Install the batteries

1. Slide open the battery compartment on the back of the remote (see Figure 13).
2. Insert 3 AA or IEC-R6 1.5V batteries, or the equivalent, as shown. Match the + and - symbols on the batteries with the + and - markings inside the compartment.
3. Slide the battery compartment cover back into place.

Replace the batteries when the remote control stops operating or its range seems reduced. Alkaline batteries are recommended.

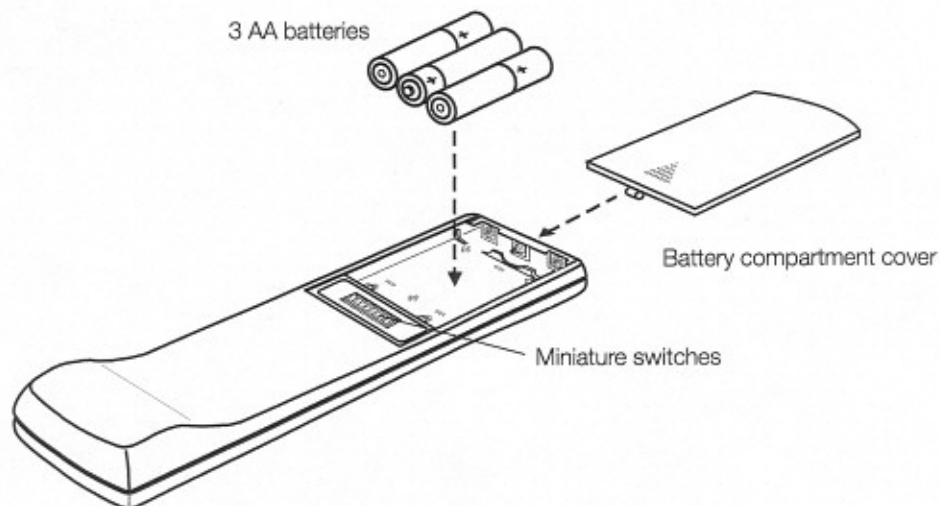


Figure 13

Installing the remote control batteries

Programming the Companion™ CS-6 controller

Your satellite system remote can be set to control the Companion system. To set the satellite remote so that its volume and mute keys control the Companion system instead of the TV, the satellite remote must be programmed to a TV code that is different from that of your TV.

The Companion satellite surround sound system is preset for the remote code 000.

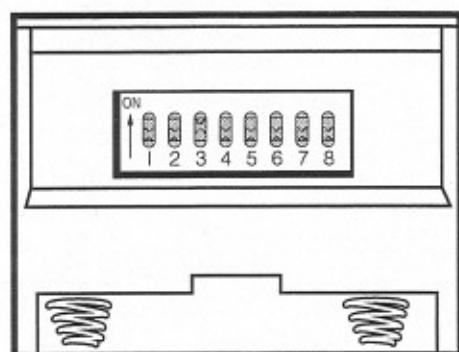
If you are using an RCA DSS dish and your TV is not being operated by the remote code 000, then you do not need to program the Companion controller. You can use the TV button on the RCA DSS remote to control the Companion system.

To set the Companion controller to another RCA DSS remote code or to work with a PRIMESTAR satellite system, follow these steps:

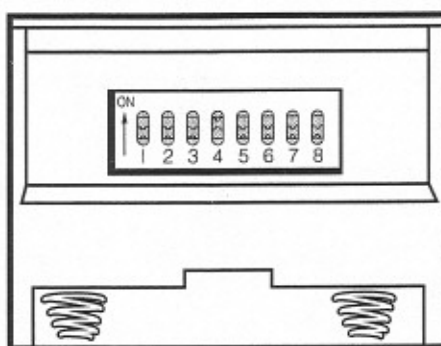
1. Turn the controller off.
2. The red light in the remote sensor goes out to verify that the controller is off.
3. Open the battery compartment cover of your Companion remote control.
4. For RCA DSS remote code 000, switches 3 and 4 are set to off (down).
 - To set RCA DSS remote code 046, set only switch 3 to on (up).
 - To set operations with a PRIMESTAR satellite system, set only switch 4 to on (up).

Note: Do not change the settings of the factory-preset switches 1, 2, 5, 6, 7, and 8.

5. To program the new code into the controller, at the same time press both the VOLUME UP and SELECT buttons on the back panel of the controller.
6. The remote sensor light flashes to indicate you are programming the controller.
7. Press any key on the Companion remote to send the new code.
8. The remote sensor verifies receiving the code by turning the red light off.



Switch 3 up for RCA remote code 046



Switch 4 up for PRIMESTAR satellite systems

Figure 14

Remote control switches

The Companion™ remote control

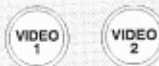
Function

Key

SAT - Selects a satellite source connected to the SAT video and audio inputs, and turns the system on (in SURROUND speaker mode).



VIDEO 1 or **2** - Selects a video source connected to the VIDEO inputs, and turns the system on (in SURROUND speaker mode).



VCR - Selects the VCR and turns the system on (in SURROUND speaker mode).



AUDIO 1 or **2** - Selects the connected audio source and turns the system on (in STEREO speaker mode).



STEREO - Selects 2-speaker mode (left and right front).



STEREO+CENTER - Selects 3-speaker mode (left, right, and center front).



SURROUND - Selects 5-speaker mode.



VOLUME ▲ \ ▼ - Raises or lowers the system volume.



SURROUND + \ - - In SURROUND mode, raises or lowers the volume of the surround speakers. In STEREO+CENTER mode, raises or lowers the volume of the center speaker.



MUTE - Silences the speakers. Also restores volume to muted speakers.



ON/OFF - Turns the system on and off.



Other remote control keys

Special keys on the remote control select the speaker mode (2, 3, or 5 speakers), and adjust the surround (rear) volume and the center speaker volume.

SPEAKER MODE - Selects SURROUND  (5-speaker), STEREO+CENTER  (3-speaker), or STEREO  (2-speaker) mode.

- When you press SAT, VCR, or VIDEO, the system automatically selects SURROUND mode.
- For other sound sources (AUDIO), the system selects STEREO mode.
- Each time you change to another sound source, the system selects the factory-set speaker mode for that source (SURROUND for video sources, STEREO for audio sources).
- While the system is playing, you can change to any other speaker mode (SURROUND, STEREO+CENTER, STEREO).

SURROUND VOLUME + \ - - In SURROUND mode, raises or lowers the volume of the surround speakers. In STEREO+CENTER mode, raises or lowers the volume of the center speaker.

- Each time you select SURROUND mode, the surround and center speaker volumes return to the last settings used. Each time you select STEREO+CENTER mode, the center speaker volume returns to the last setting used.
- To return to the factory-set SURROUND or STEREO+CENTER volume, hold the SURROUND or STEREO+CENTER key for 10 seconds.
- While in STEREO (2-speaker) mode, pressing SURROUND VOLUME + selects SURROUND (5-speaker) mode.

The controller back panel

If your remote is lost or broken, you can control volume up and down and source selection from three buttons on the back panel of the controller (between the BASS MODULE CONTROL and the REMOTE SENSOR INPUT jacks). Source select scrolls through the sources in the sequence OFF, SAT, VCR, VIDEO 1, VIDEO 2, AUDIO 1, AUDIO 2, OFF. After scrolling through the input sequence to OFF, the speakers are off but the SAT audio and video source is selected.

Using your satellite system remote control

- Use the designated button on your satellite system remote to turn on the Companion system.
 - On an RCA DSS remote, use the TV button. (Do not use the ALT button.)
 - On an optional PRIMESTAR remote for Companion, use the BOSE button.
- To select sources, use buttons 1 through 6 on the satellite remote (Figure 16): 1=SAT, 2=VIDEO 1, 3=VIDEO 2, 4=VCR, 5=AUDIO 1, 6=AUDIO 2.
- To select speaker modes, use buttons 7 through 9 on the satellite remote (Figure 16): 7=STEREO, 8=STEREO+CENTER, 9=SURROUND.
- Use the designated buttons to adjust surround or center channel volume.
 - On an RCA DSS remote, use the channel Δ or ∇ keys.
 - On a PRIMESTAR remote for Companion, use the menu cursor Δ or ∇ keys.

Figure 15

The Companion remote control keys



Figure 16

Satellite system remote control keys to operate the Companion system



Listening to your Companion™ satellite surround sound system

Your Companion satellite surround sound system offers the option of listening to 2, 3, or 5 speakers. The system turns on in SURROUND (5-speaker) mode when SAT, VCR, VIDEO 1, or 2 is selected and in STEREO (2-speaker) mode when AUDIO 1 or 2 is selected. You can change to the speaker mode that sounds best to you for each particular program.

You can listen to any program material in SURROUND mode, whether the program is surround-encoded, stereo, or monaural. You will not hear sound from all 5 speakers all of the time. Even with surround-encoded material there are times when no sounds are directed to the surround speakers. For most video material (mono, stereo, or surround), listening in 3-speaker or 5-speaker mode helps anchor the dialogue to the picture while providing a fuller sound. See additional discussion about selecting program material on page 4.

The system's VideoStage® decoding technology directs the sound from surround-encoded program material to the appropriate speakers to create the home theater effects. Monaural program material is directed to the front speakers, primarily the center. For stereo material, sounds encoded as left are directed to the left front, right to the right front, and both left and right directed primarily to the center. Some sounds which are not specifically left or right may also be directed to the surround speakers. Decide if the particular material sounds better to you in 3-speaker or 5-speaker mode.

Adjusting the volume

- Use the VOLUME ▲ (up) or ▼ (down) keys on the Companion remote or your satellite system remote to raise or lower the system volume (all speakers).
- Use the MUTE key on the Companion remote or your satellite system remote to silence or unmute the speakers.
- For SURROUND mode, use the SURROUND + or - keys to raise or lower the sound level directed to the surround speakers. Use the channel or menu cursor △ or ▽ keys on your satellite system remote.
- For STEREO+CENTER mode, use the SURROUND + or - keys to raise or lower the sound level directed to the center speaker. Use the channel or menu cursor △ or ▽ keys on your satellite system remote.

Turning the system on or off

- Press the ON/OFF key on the Companion remote. Use the DSS or TV key on your DSS system remote or the POWER key on your PRIMESTAR remote to turn the Companion controller on. The SELECT button on the back panel of the controller also turns the Companion system on to a specific source or off.

Using the system with a source

Follow the instructions for connecting components before proceeding. To begin, make sure the component is turned on and a tape, CD, laserdisc, etc. is loaded.

Note: The Companion remote cannot turn a connected component on or off.

Turning the system on and selecting the component

Press a source key on either the Companion remote or satellite system remote to turn the system on and select the component connected to that input. If the system is already on, press a source key to select the component. Pressing SAT, VCR, or VIDEO selects SURROUND mode; pressing AUDIO selects STEREO mode. Choose another speaker mode, if desired.

Note: The last video source selected remains on the monitor when you select an audio source. For example, if you have an AM/FM tuner connected, when watching a sports broadcast you can select an audio source to hear the local radio commentary while continuing to watch the TV picture.

Fine-tuning your system

In most situations, you only need to follow the speaker placement guidelines (see "Setting Up" on pages 6 and 7) for your system to provide excellent sound quality.

You do not need to adjust tone settings for changes in volume, since Bose® patented, automatic dynamic equalization technology provides a natural tonal balance over the full range of volume settings.

If desired, you can further fine-tune your system as described here.

Adjusting speaker controls

The Companion powered speaker system TREBLE and BASS controls are located on the bass module. They allow you to adjust the treble (high frequencies) and bass (low frequencies). In the normal setting, the dots on each control are in the 12 o'clock position. You can also locate the normal setting by feeling when the control settles into the notch at this position. Turn the controls clockwise to increase, and counterclockwise to decrease, the amount of treble or bass.

Compensating for room acoustics

The acoustics (sound qualities) of your room can affect the overall sound quality of any speaker system. In general, you can reduce many problems with acoustics by the cautious use of the TREBLE and BASS controls.

Too much or too little treble

Rooms with too few sound-absorbing furnishings, especially those with bare floors and walls, may sound overly shrill or "bright." Turning down the treble control (toward -) decreases treble sound.

Rooms with a lot of sound-absorbing furnishings, such as upholstered furniture, wall-to-wall carpet, or heavy drapes, may reduce the treble sound of your system. Moving speakers further away from soft furnishings increases treble. You can increase treble sound by slightly turning up the treble control (toward +).

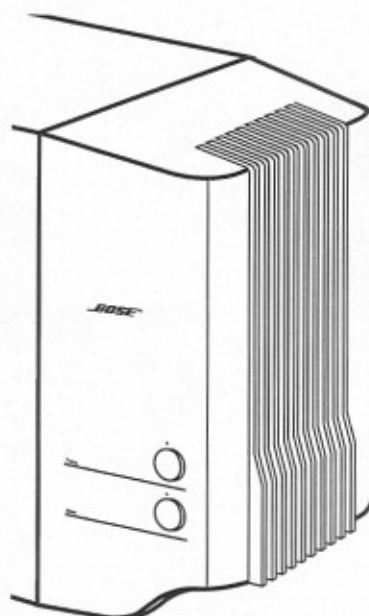
Too much or too little bass

You can decrease bass sound by turning down the bass control (toward -). To increase bass, turn up the bass control (toward +).

Bass module placement affects the amount of bass you hear. Placing the bass module closer to the corner of the room will increase bass. Moving the bass module away from the corner will decrease bass.

Figure 17

Bass and treble controls



Troubleshooting

Problem	What to do
System does not function at all	<ul style="list-style-type: none"> • Make sure the power connector is plugged securely into the controller, the bass module power cord is plugged securely into the bass module, and the power pack and power cord are plugged into operating AC wall outlets. • Be sure to select a source (SAT, VCR, etc.). • Unplug the music center power pack for a minute, then reconnect it. This allows the unit to reset itself after a power surge or power interruption.
No sound	<ul style="list-style-type: none"> • Make sure the audio input cable is connected to the controller BASS MODULE AUDIO OUTPUTs and the multi-pin connector is firmly seated in the bass module jack. • Check the connections for any external components. Make sure to select the correct source for the desired input. • Check the speaker connections. • Increase the volume. • Check to see if MUTE is selected. Press the MUTE key on the remote to unmute the sound.
No sound from center speaker	<ul style="list-style-type: none"> • Make sure that the center cube cable is connected at both ends. • Select STEREO+CENTER (3-speaker) or SURROUND (5-speaker) mode.
Too much sound from center speaker	<ul style="list-style-type: none"> • In STEREO+CENTER mode, press SURROUND —, to decrease center speaker volume. • Press and hold the STEREO+CENTER (3-speaker) mode key for 10 seconds to restore the factory preset surround volume setting.
No sound from surround speakers	<ul style="list-style-type: none"> • Select SURROUND (5-speaker) mode. • Press SURROUND +. • Make sure the video sound source is stereo and surround-encoded, and the component used (TV, VCR, laserdisc player) is stereo.
Surround speakers are too loud	<ul style="list-style-type: none"> • In SURROUND mode, press SURROUND —. • Make sure that the left and right front speakers are connected to the front speaker jacks and the left and right surround speakers are connected to the surround speaker jacks. • Press and hold the SURROUND (5-speaker) mode key for 10 seconds to restore the factory preset surround volume setting.
Remote control is inconsistent or does not work	<ul style="list-style-type: none"> • Check batteries and their polarity (+ and -). • Operate the remote control closer to the controller. • Aim the remote at the remote sensor.
Sound is distorted	<ul style="list-style-type: none"> • Make sure speaker cables are not damaged and the connections are secure. • Reduce the output level from any external components connected to the controller.

Problem	What to do
Volume control is too sensitive	<ul style="list-style-type: none">• Check to be sure the audio input cable is connected to the controller BASS MODULE AUDIO OUTPUTs.
No satellite, VCR, TV, CD, or tape sound	<ul style="list-style-type: none">• Check the connections.• Refer to the component owner's manual.

Cleaning the Companion system

The only maintenance needed is cleaning the system and replacing batteries for the remote control.

For information on replacing the remote control batteries, see "Install the batteries" on page 14.

Cleaning the controller

Use only a soft cloth to clean the outside of the Companion controller.

Do not use any solvents, chemicals, or cleaning solutions containing alcohol, ammonia, or abrasives. Do not allow liquids to spill into any openings. Do not use any sprays near the system.

Cleaning the speakers and bass module

Clean the surface of your speakers with a soft damp cloth. Do not use any sprays near the system. Do not use any solvents, chemicals, or cleaning solutions containing alcohol, ammonia, or abrasives. Do not allow liquids to spill into any openings.

The speaker grille panels require no special care, although you may vacuum them carefully with a soft-bristled attachment, if necessary.

Warranty period

The Bose® Companion satellite surround sound system is covered by a limited 1-year transferable warranty. Details of the warranty are provided on the warranty card that came with your system. Please fill out the information section on the card and mail it to Bose.

Customer service

For additional help in solving problems, contact Bose customer service. See the inside back cover for Bose customer service offices and phone numbers.

Technical information

Controller power pack power rating

120V~ 60 Hz 20VA

Speaker system power rating

120V~ 50/60 Hz 200W

Controller inputs

SAT, VIDEO 1, VIDEO 2, VCR: 3.5V maximum

REMOTE SENSOR INPUT – to lengthen, use
a PS-2 style keyboard extension cable

Outputs

Fixed audio: VCR, BASS MODULE

BASS MODULE CONTROL: for use with
Bose® powered speakers and accessories

Remote control range

25 feet (7.6 m)

Finish

Controller

Painted steel

Cube speakers

Polymer, painted

Bass module

Vinyl veneer, Polymer

Dimensions

Controller

12.75" W x 3.8" D x 1.75" H
(32.4 cm x 9.6 cm x 4.4 cm)

Cube speakers

3.0" W x 4.8" D x 3.0" H
(7.6 cm x 12.2 cm x 7.6 cm)

Bass module

23.3" W x 7.5" D x 14.0" H
(59.0 cm x 19.0 cm x 35.5 cm)

Weights

Controller

2.2 lb (1.0 kg)

Cube speakers

1.0 lb (0.5 kg)

Bass module

33 lb (15.0 kg)

Total shipping weight

49 lb (27.7 kg)

Accessories

To find out about mounting brackets, stands, additional remote controls, and other accessories, contact your Bose dealer. Or call Bose directly (see inside back cover for phone numbers).

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USA

Bose Corporation, The Mountain
Framingham, MA 01701-9168
1-800-288-BOSE (1-800-288-2673)
Weekdays 9:00 a.m. to 8 p.m.
Saturdays 9:00 a.m. to 3 p.m.
ET (eastern time)

Canada

Bose Ltd., 8-35 East Beaver Creek Road
Richmond Hill, Ontario L4B 1B3
1-800-444-BOSE (1-800-444-2673)
9 a.m. to 5 p.m. ET (eastern time)

Other Locations

Bose Service, Otis Street Park
Building 3, PO Box 5045
Westborough, MA 01581-5045 USA
TEL (508) 229-8484 FAX (508) 229-3891

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